NGA BUILD AND CONNECT CODE SPECIFICATIONS V2.2

SCHEDULE 8 – SCHEDULE OF RATE CODE SPECIFICATIONS

Contents

NGA FIBRE CONNECT CODES

CODE N-B19: Install Hand Hole

Short Code:

Install Hand Hole

Service Order (or work request when used for MDUs/ROWs etc) Types Include:

BZ (LX) (LX)

Code Unit:

Per Hand Hole Installed

Types of Work included:

- Install hand hole and starter pipes as required at a transition point which is in hard seal and designed for multiple customers.

Indicative task list:

Combination of any of the following tasks required to achieve the outcomes stipulated in the Service Order (or work request when used for MDUs/ROWs etc) and to achieve the outcomes required by Chorus
Install hand hole in accordance with Chorus standards and practises

Details:

- This Code is not to be used for XK (S9), XL or B7 (PV) Service Order (or work request when used for MDUs/ROWs etc).
- A hand hole should only be installed in hard surfaces where that position is likely to be used for a subsequent connection, and the use of a hand hole will negate the need for a secondary excavation.
- This code excludes reinstatement (the relevant reinstatement code should apply) and the supply of the hand hole (which will be charged by the relevant consumables by set variation code)

Indicative materials	
Consumable	N/A
Consumable by Set Variation	MB19.1 Channell GLB912-T MB19.2 Channell GLB912C
Consigned	N/A

CODE N-511: Provision NGA - Greenfields End Customer Site

Short Code:
NGA Greenfields

Platforms covered:
NGA

Code unit:
Per Service Order

Outcome Description:

Complete all work to successful connect the End Customers Greenfield End Customer site to the Chorus network and deliver a NGA service.

Includes both fixed fibre and air blown fibre installations.

Only one instance of this code can be claimed on each Service Order.

Types of work included/excluded:

Indicative task list:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Install a single way DI (Direct Install) Microduct or Fixed Fibre from drop-off to ETP position in existing Service Lead-in Duct. DB (Direct Buried) can be used if required in an end customer site supplied open trench. Where no duct or trench is supplied or the duct is unusable advise the customer to have their electrician/ builder return to remedy the duct.
- Completion of all boundary and lead-in work (no distinction between inside and outside boundary (i.e. includes both) for the purpose of connecting the Chorus network to the end customers site duct, multiple civil methodologies may apply.
- Fibre connection from FAT to ETP, including blowing of ABF or Hauling of Fixed Fibre and installation of ETP.
- All fibre management at the Chorus fibre access terminals, ETP and ONT, including data card entry and labelling requirements.
- Extend Fibre cable from ETP position to the agreed ONT location in the home distribution box. If a home distribution box has not been supplied then either install the ONT next to the nearest and accessible internal Power outlet or advise the customer to have their electrician/ builder return to remedy the internal cabling.
- RGW, ONT, ITP installation and commissioning.
- Internal wiring integration.
- Outside boundary reinstatement of hard surfaces, which must be a like for like replacement of the hard surface removed but does need to guarantee colour, finish or age match. Specific details are set out in ND0604 Sections 5, 6 and 7.
- Testing, commissioning, records.
- Chorus service experience.
- RGW stock Management where stock management agreements are in place between Chorus and the service partner.
- Where the technician is unable to resolve layer 2 connection issues with the RSP within a reasonable amount of time, then the Basic Connection Code should be claimed and the job IVR'd. If the technician is required to return to that job to complete the connection, Chorus will allow an N-750 Code to be claimed alongside the Basic Connection code (to cover the return visit), provided that sufficient

information is provided on that service order to support the claim. Sufficient evidence is deemed to be enough information for Chorus to take that issue away for on-charging and resolution with the RSP, including names, dates & times. For example, if the technician is kept on hold for 30-minutes, it could be assumed that there is going to be no further activity and any further wait time is going to delay the next service order, and it would be reasonable for that tech to hang up and return at a later date, if required.

- For the avoidance of doubt, if the technician has been actively talking with the RSP who are actively working to resolve the issue, then it is expected that the Technician will continue with that call until the issue is resolved (noting that from time to time this could take longer than 30-minutes).
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic, the following exclusions will apply:

- Any works covered by the Faulty Network or UFB Augmentation processes.
- Internal capping systems for internal cabling.
- Any specialist x-ray machines or other specialist equipment or reporting required on an ad hoc basis for investigating the integrity of the masonry wall or floor (which will be the Customers responsibility), including post-installation compliance.
- Addressing daisy-chain & star wiring and other wiring configurations not conforming to TCF standards, including missing distribution boxes – refer back to the End Customer to resolve with their contractor.
- Subsequent truck roll in instances where the RGW is not onsite by time of installation completion and is not a stock managed RGW - see the N-750 Code.
- Subsequent truck roll in instances where the lead-in duct or the End User Site cabling is not up to standard - see the N-750 Code (provided that sufficient information is provided on that service order to support the claim).
- The installation of 20mm duct from the boundary/drop-off to the ETP. It is expected that the property owner would provide this.

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties etc. (per lot). Flexi-duct. Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	Micro duct and connectors. ETP. Fibre Patch Cord (halved into a pigtail): ○ ENZ-PATCH2SC20M-10. 10-pk: SCA Patchcord 2 fibres, 2 x SC/APC-2 x SC/APC, 20 mtr of TSR3950227 for ONT connection (note: being phased out and to be replaced by CV7818-00 when depleted) ○ CV7818-000. Each: SCA Patchcord 20 mtr long SCA-SCA, Simplex for ONT connection (note: will replace ENZ Patchcord ENZ-PATCH2SC20M-10 when depleted) ○ EF5906-000. Each: SCA Patchcord 3 mtr long SCA-SCA, Duplex(for ONT connection ○ CY6874-000. Each: LCA Patchcord 657.A2 LCA 1F 8.5 mtr 2mm for Exchange based Splitter connection where required ONT and ONT Backing Tray. ABF.

CODE N-513: Provision NGA - School Connection

Short Code:

NGA School

Platforms covered:

NGA

Code unit:

Per Service Order

Outcome Description:

Complete all work to successful connect an End Customer School site to the Chorus network and deliver a NGA service.

Includes both fixed fibre and air blown fibre installations.

It is assumed that the fibre or tube will be in place to a FAT.

Only one instance of this code can be claimed on each service order.

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Stock Management of the RGW for relevant RSP's.
- Extend Fibre cable from L200 position to the agreed ONT location in the School, which should be within 5-metres of the L200.
- Install ONT Fibre tray
- All splicing at the FFP and/or ABFAT, ETP or internal building termination point and ONT.
- Complete FIP & power meter reading test at ONT.
- Install ONT and connect to 240V outlet (240v outlet provided by End Customer).
- Configure and confirm operation of ONT using Service Completion Guide.
- Connect Plug n Play Residential Gateway and test Internet and Voice services.
- Connection to the splitter at the exchange (if required).
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.
- In addition to the generic exclusions (where relevant), the following exclusions will apply:
- This code does not include Private Schools which should be treated as a standard business connection.
- Where customer fibre is required to be blown from the FFP to the ETP - see the N-706 Code.
- This code does not include additional installations (e.g. to dental clinics on the same school site).
- Any works covered by the Faulty Network process.

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties etc. (per lot). Flexi-duct, saddles.

Indicative materials	
	Fibre warning stickers. Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	Fibre Patch Cord (halved into a pigtail): ○ ENZ-PATCH2SC20M-10. 10-pk: SCA Patchcord 2 fibres, 2 x SC/APC-2 x SC/APC, 20 mtr of TSR3950227 for ONT connection (note: being phased out and to be replaced by CV7818-00 when depleted) ○ CV7818-000. Each: SCA Patchcord 20 mtr long SCA-SCA, Simplex for ONT connection (note: will replace ENZ Patchcord ENZ-PATCH2SC20M-10 when depleted) ○ EF5906-000. Each: SCA Patchcord 3 mtr long SCA-SCA, Duplex(for ONT connection ○ CY6874-000. Each: LCA Patchcord 657.A2 LCA 1F 8.5 mtr 2mm for Exchange based Splitter connection where required ONT and ONT Backing Tray.

CODE N-552: Basic Connection – End Customer Site Cabling

Short Code:

Connection – Site cabling

Code Unit:

Per NGA install order

Outcome Description:

To complete all work to successfully connect the end customers site to the Chorus network and deliver an NGA service

This code assumes that the NGA communal network has been built to the ETP/ITP or the fibre has been left in a ceiling space to allow for extending into the customers end site. For avoidance of doubt this includes all ECS that have had MDU or ROW Build performed that meet this criteria.

Note: no distinction is to be made between whether the End Customer Site is within an MDU, an SDU on a ROW or a standalone SDU - this code applies to all situations.

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Installation of Composite cable by method of Cavity wiring under floors, in ceilings and internal walls where practical or surface mounting and in accordance with correct installation practices.
- Installation of the 2 fibre drop lead from the ETP/ITP to the ONT location as agreed with the end customer.
- RGW, ONT, ITP installation and commissioning.
- Integration of the internal wiring in order to facilitate POTS services.
- Testing, commissioning, records.
- Chorus service experience including completion of a Scope and all appropriate signoffs including the UFB Installation Consent form.
- RGW stock Management where stock management agreements are in place between Chorus and the service partner.
- Where the technician is unable to resolve layer 2 connection issues with the RSP within a reasonable amount of time, then the Basic Connection Code should be claimed and the job IVR'd. If the technician is required to return to that job to complete the connection, Chorus will allow an N-750 Code to be claimed alongside the Basic Connection code (to cover the return visit), provided that sufficient information is provided on that service order to support the claim. Sufficient evidence is deemed to be enough information for Chorus to take that issue away for on-charging and resolution with the RSP, including names, dates & times. For example, if the technician is kept on hold for 30-minutes, it could be assumed that there is going to be no further activity and any further wait time is going to delay the next service order, and it would be reasonable for that tech to hang up and return at a later date, if required.
- For the avoidance of doubt, if the technician has been actively talking with the RSP who are actively working to resolve the issue, then it is expected that the Technician will continue with that call until the issue is resolved (noting that from time to time this could take longer than 30-minutes).
- The Basic Connection codes include wall penetrations and fire stopping. Any penetration through a solid masonry wall or floor using a core drill for the purpose of transporting Chorus Network up to 63mm OD duct and a maximum thickness of 300 mm. (over 300mm thickness to be quoted to Chorus and approved in advance), including Disposal of the removed wall material and sealing of the penetration from water and gas ingress.

- Fire stopping of a wall or floor penetration up to 300mm floor/wall depth/thickness (Over 300mm excluded) where necessarily required as specified in the relevant building standards (including the supply of approved/suitable fire stopping products (e.g. Hilti, CSD, Firepro) and any product related certifications required), but excluding 3M Re-sealable fire stopping kits). Where a penetration exists with no (or substandard) stopping, no stopping should be installed. Before & after photos should be taken as proof stopping did not exist or was substandard prior to installation
- Connectivity to the network i.e. splicing & testing at the appropriate sites.
- Includes transition from black drop cable 2 fibre to white 2 fibre drop cable (if required by customer)
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.
- In addition to the generic exclusions, the following exclusions will apply:
- Any installation of the UFB or NGA Communal network.
- Any works covered by the Faulty Network or UFB Augmentation processes.
- Internal capping systems for internal cabling.
- Premises networking that qualify for Premises Networking codes.
- Any structural integrity engineering assessments, incl. X-Rays or other specialist reporting required (on an ad hoc basis or as a result of any proposed wall or floor penetrations or fire topping activities) for investigate ng or certifying the integrity of building (which will be the Customers responsibility), including post-installation compliance such as building certifications / WOF.
- Subsequent truck roll in instances where the RGW is not onsite by time of installation completion and is not a stock managed RGW - see the N-750 Code.
- Any Civil construction and any subsequent reinstatement of that civil construction – see the N-560 – N-565 Codes.

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties (per lot). Flexi-duct. Duct and miscellaneous duct materials e.g. glue, clips, screws. Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	Microduct. Composite cable. Fixed fibre service lead (non-connectorised). Fixed fibre aerial express duplex LCA drop pigcable. ONT.

Note$_1$: Refer to Appendix G for indicative schematic of Basic connection scope

Note$_2$: Refer to Appendix A for Basic connection code decision tree

CODE N-554: Basic Connection – End Customer Site Cabling and Drop

Short Code:

Connection – Site cabling and drop

Code Unit:

Per NGA install order

Outcome Description:

To complete all work to successfully connect the end customers site to the Chorus network and deliver an NGA service.

This code assumes that the NGA communal network has been built and the pathway delivered to the ETP/ITP or has been left in a ceiling space to allow for installing Fibre into the customers end site.
For avoidance of doubt this includes all ECS that have had MDU or ROW Build performed that meet this criteria.

Note: no distinction is to be made between whether the End Customer Site is within an MDU, an SDU on a ROW or a standalone SDU - this code applies to all situations.

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Installation of Composite cable by method of Cavity wiring under floors, in ceilings and internal walls where practical or surface mounting and in accordance with correct installation practices.
- Installation of the 2 fibre drop lead from the ETP/ITP to the ONT location as agreed with the end customer.
- Installation of fibre within the pre-built NGA Communal network, either internally or externally (dependant on the location NGA Communal Network).
- RGW, ONT, ITP installation and commissioning.
- Integration of the internal wiring in order to facilitate POTS services.
- Testing, commissioning, records.
- Chorus service experience including completion of a Scope and all appropriate signoffs including the UFB Installation Consent form.
- RGW stock Management where stock management agreements are in place between Chorus and the service partner.
- Where the technician is unable to resolve layer 2 connection issues with the RSP within a reasonable amount of time, then the Basic Connection Code should be claimed and the job IVR'd. If the technician is required to return to that job to complete the connection, Chorus will allow an N-750 Code to be claimed alongside the Basic Connection code (to cover the return visit), provided that sufficient information is provided on that service order to support the claim. Sufficient evidence is deemed to be enough information for Chorus to take that issue away for on-charging and resolution with the RSP, including names, dates & times. For example, if the technician is kept on hold for 30-minutes, it could be assumed that there is going to be no further activity and any further wait time is going to delay the next service order, and it would be reasonable for that tech to hang up and return at a later date, if required.
- For the avoidance of doubt, if the technician has been actively talking with the RSP who are actively working to resolve the issue, then it is expected that the Technician will continue with that call until the issue is resolved (noting that from time to time this could take longer than 30-minutes).
- The Basic Connection codes include wall penetrations and fire stopping. Any penetration through a solid masonry wall or floor using a core drill for the purpose of transporting Chorus Network up to 63mm OD duct and a maximum thickness of 300 mm. (over 300mm thickness to be quoted to Chorus

and approved in advance), including Disposal of the removed wall material and sealing of the penetration from water and gas ingress.

- Fire stopping of a wall or floor penetration up to 300mm floor/wall depth/thickness (Over 300mm excluded) where necessarily required as specified in the relevant building standards (including the supply of approved/suitable fire stopping products (e.g. Hilti, CSD, Firepro) and any product related certifications required), but excluding 3M Re-sealable fire stopping kits). Where a penetration exists with no (or substandard) stopping, no stopping should be installed. Before & after photos should be taken as proof stopping did not exist or was substandard prior to installation.
- Connectivity to the network i.e. splicing & testing at the appropriate sites.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions, the following exclusions will apply:

- Any installation of the UFB or NGA Communal network.
- Any works covered by the Faulty Network or UFB Augmentation processes.
- Internal capping systems for internal cabling.
- Premises networking that qualify for Premises Networking codes.
- Any structural integrity engineering assessments, incl. X-Rays or other specialist reporting required (on an ad hoc basis or as a result of any proposed wall or floor penetrations or fire topping activities) for investigate ng or certifying the integrity of building (which will be the Customers responsibility), including post-installation compliance such as building certifications / WOF.
- Subsequent truck roll in instances where the RGW is not onsite by time of installation completion and is not a stock managed RGW - see the N-750 Code.
- Any Civil construction and any subsequent reinstatement of that civil construction – see the N-560 – N-565 Codes.

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties (per lot). Flexi-duct. Duct and miscellaneous duct materials e.g. glue, clips, screws. Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	Microduct. ABFU. Composite cable. Fixed fibre service lead (non-connectorised). Fixed fibre aerial express duplex LCA drop pigcable. ONT.

Note$_1$: Refer to Appendix G for indicative schematic of Basic connection scope

Note$_2$: Refer to Appendix A for Basic connection code decision tree

CODE N-560: Basic Connection - Aerial

Short Code:

Connection - Aerial

Code Unit:

Per NGA install service order

Outcome Description:

Complete all work to successfully connect the End Customer brownfield premise to the Chorus network and deliver a NGA service.

Installation should not commence until the "UFB Installation Consent Form" & other relevant documentation are completed and signed.

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Installation by means of Aerial when it is the predominant methodology for the service lead-in based on distance from the network drop off point at the boundary to the premises
- Installation of the service lead-in by means of Hauling and Ruggedised methodologies are included where the distance is less than the aerial service lead-in installation.
- Installation of the service lead-in by means of Trenching is included up to 5m inside and/or outside the boundary. Slot Trenching is a method of Trenching therefore is included and must adhere the standards set out in ND13035
- Installation of the service lead-in by means of Drilling is included up to 5m inside and/or outside the boundary.
- Installation of the service lead-in where Hard Surface reinstatement is required up to $3m^2$ inside and/or outside the boundary.
- Reinstatement of hard surfaces must be a like for like replacement of the hard surface removed with best endeavours efforts made to guarantee colour and finish match. Specific details are set out in ND0604 Sections 5, 6 and 7.
- Fibre connection from FAT to ETP, including blowing of ABF or Hauling of Fixed Fibre and installation of ETP.
- All fibre management at the Chorus fibre access terminals, ETP and ONT, including data card entry and labelling requirements.
- Completion of all boundary and lead-in work (no distinction between inside and outside boundary (i.e. includes both), multiple civil methodologies may apply.
- Installation of Composite cable by method of Cavity wiring under floors, in ceilings and internal walls where practical or surface mounting and in accordance with correct installation practices.
- RGW, ONT, ITP installation and commissioning.
- Internal wiring integration.
- Testing, commissioning, records.
- Chorus service experience including completion of a Scope and all appropriate signoffs including the UFB Installation Consent form.
- RGW stock Management where stock management agreements are in place between Chorus and the service partner.
- Where the technician is unable to resolve layer 2 connection issues with the RSP within a reasonable amount of time, then the Basic Connection Code should be claimed and the job IVR'd. If the technician is required to return to that job to complete the connection, Chorus will allow an N-750 Code to be claimed alongside the Basic Connection code (to cover the return visit), provided that

sufficient information is provided on that service order to support the claim. Sufficient evidence is deemed to be enough information for Chorus to take that issue away for on-charging and resolution with the RSP, including names, dates & times. For example, if the technician is kept on hold for 30-minutes, it could be assumed that there is going to be no further activity and any further wait time is going to delay the next service order, and it would be reasonable for that tech to hang up and return at a later date, if required.

- For the avoidance of doubt, if the technician has been actively talking with the RSP who are actively working to resolve the issue, then it is expected that the Technician will continue with that call until the issue is resolved (noting that from time to time this could take longer than 30-minutes).
- The Basic Connection codes include wall penetrations and fire stopping. Any penetration through a solid masonry wall or floor using a core drill for the purpose of transporting Chorus Network up to 63mm OD duct and a maximum thickness of 300 mm. (over 300mm thickness to be quoted to Chorus and approved in advance), including Disposal of the removed wall material and sealing of the penetration from water and gas ingress.
- Fire stopping of a wall or floor penetration up to 300mm floor/wall depth/thickness (Over 300mm excluded) where necessarily required as specified in the relevant building standards (including the supply of approved/suitable fire stopping products (e.g. Hilti, CSD, Firepro) and any product related certifications required), but excluding 3M Re-sealable fire stopping kits). Where a penetration exists with no (or substandard) stopping, no stopping should be installed. Before & after photos should be taken as proof stopping did not exist or was substandard prior to installation.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions, the following exclusions will apply:

- Any works covered by the Faulty Network or UFB Augmentation processes.
- Internal capping systems for internal cabling.
- Premises networking that qualify for Premises Networking codes.
- Connections within an MDU – see the 552 or 554 Code.
- Connections where build has been completed to the ETP (which may occur in some ROW's) - see the appropriate 552 or 554 Code.
- Subsequent truck roll in instances where the RGW is not onsite by time of installation completion and is not a stock managed RGW – see thee N-750 Code.
- Additional scope activity where an SDU install cannot proceed – LSF, MDU / ROW communal build or Power Line info required: See N–U701 Internal top up code
- Additional aerial work required where install requires 2 spans or more: See N–U705 Internal top up code
- Where a large (100L) compressor is required to blow the fibre from network point to customer ETP – See N-U706 internal top up code
- Where large rodding equipment (>200m) or mechanical hauling is required for outside boundary hauling see N-U707 Internal top up code

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties (per lot). Miscellaneous aerial materials e.g. screw eyes. ITP. Duct and miscellaneous duct materials e.g. glue, clips, screws. Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	ABF.

Indicative materials	
	Composite cable. Fixed fibre service lead ETP. Duplex fixed fibre service leads. Aerial clamps. ONT. 1 way ruggedised microduct.

Note$_2$: Refer to Appendix A for Basic connection code decision tree

CODE N-561: Basic Connection - Haul

Short Code:
Connection - Haul

Code Unit:

Per NGA install service order

Outcome Description:

Complete all work to successfully connect the End Customer brownfield premise to the Chorus network and deliver a NGA service.

Installation should not commence until the "UFB Installation Consent Form" & other relevant documentation are completed and signed.

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Installation by means of Hauling when it is the predominant methodology for the service lead-in based on distance from the network drop off point at the boundary to the premises. It includes hauling through existing duct or New Duct installed by means of trenching and drilling, e.g. where an end customer site is only 4 metres from the boundary and requires a new trench of 4m from boundary to ETP location.
- Installation of the service lead-in by means of Aerial and Ruggedised methodologies are included where the distance is less than the Hauling activity for service lead-in installation.
- Installation of the service lead-in by means of Trenching is included up to 5m inside and/or outside the boundary. Slot Trenching is a method of Trenching therefore is included and must adhere the standards set out in ND13035
- Installation of the service lead-in by means of Drilling is included up to 5m inside and/or outside the boundary.
- Installation of the service lead-in where Hard Surface reinstatement is required up to $3m^2$ inside and/or outside the boundary.
- Hard Surface reinstatement must be a like for like replacement of the hard surface removed with best endeavours efforts made to guarantee colour and finish match. Specific details are set out in ND0604 Sections 5, 6 and 7.
- Fibre connection from FAT to ETP, including blowing of ABF or Hauling of Fixed Fibre and installation of ETP.
- All fibre management at the Chorus fibre access terminals, ETP and ONT, including data card entry and labelling requirements.
- Completion of all boundary and lead-in work (no distinction between inside and outside boundary (i.e. includes both), multiple civil methodologies may apply.
- Installation of Composite cable by method of Cavity wiring under floors, in ceilings and internal walls where practical or surface mounting and in accordance with correct installation practices.
- RGW, ONT, ITP installation and commissioning.
- Internal wiring integration.
- Testing, commissioning, records
- Chorus service experience including completion of a Scope and all appropriate signoffs including the UFB Installation Consent form.
- RGW stock Management where stock management agreements are in place between Chorus and the service partner.

- Where the technician is unable to resolve layer 2 connection issues with the RSP within a reasonable amount of time, then the Basic Connection Code should be claimed and the job IVR'd. If the technician is required to return to that job to complete the connection, Chorus will allow an N-750 Code to be claimed alongside the Basic Connection code (to cover the return visit), provided that sufficient information is provided on that service order to support the claim. Sufficient evidence is deemed to be enough information for Chorus to take that issue away for on-charging and resolution with the RSP, including names, dates & times. For example, if the technician is kept on hold for 30-minutes, it could be assumed that there is going to be no further activity and any further wait time is going to delay the next service order, and it would be reasonable for that tech to hang up and return at a later date, if required.
- For the avoidance of doubt, if the technician has been actively talking with the RSP who are actively working to resolve the issue, then it is expected that the Technician will continue with that call until the issue is resolved (noting that from time to time this could take longer than 30-minutes).
- The Basic Connection codes include wall penetrations and fire stopping. Any penetration through a solid masonry wall or floor using a core drill for the purpose of transporting Chorus Network up to 63mm OD duct and a maximum thickness of 300 mm. (over 300mm thickness to be quoted to Chorus and approved in advance), including Disposal of the removed wall material and sealing of the penetration from water and gas ingress.
- Fire stopping of a wall or floor penetration up to 300mm floor/wall depth/thickness (Over 300mm excluded) where necessarily required as specified in the relevant building standards (including the supply of approved/suitable fire stopping products (e.g. Hilti, CSD, Firepro) and any product related certifications required), but excluding 3M Re-sealable fire stopping kits). Where a penetration exists with no (or substandard) stopping, no stopping should be installed. Before & after photos should be taken as proof stopping did not exist or was substandard prior to installation.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions, the following exclusions will apply:

- Any works covered by the Faulty Network or UFB Augmentation processes.
- Internal capping systems for internal cabling.
- Premises networking that qualify for Premises Networking codes.
- Connections within an MDU – see the 552 or 554 Code.
- Connections where build has been completed to the ETP (which may occur in some ROW's) - see the appropriate 552 or 554 Code.
- Any structural integrity engineering assessments, incl. X-Rays or other specialist reporting required (on an ad hoc basis or as a result of any proposed wall or floor penetrations or fire topping activities) for investigating or certifying the integrity of building (which will be the Customers responsibility), including post-installation compliance such as building certifications / WOF.
- Subsequent truck roll in instances where the RGW is not onsite by time of installation completion and is not a stock managed RGW - see the N-750 Code.
- Additional scope activity where an SDU install cannot proceed – LSF, MDU / ROW communal build or Power Line info required: See N–U701 Internal top up code
- Additional aerial work required where install requires 2 spans or more: See N–U705 Internal top up code
- Where a large (100L) compressor is required to blow the fibre from network point to customer ETP – See N-U706 internal top up code
- Where large rodding equipment (>200m) or mechanical hauling is required for outside boundary hauling see N-U707 Internal top up code

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties (per lot).

Indicative materials	
	ITP Duct and miscellaneous duct materials e.g. glue, clips, screws. Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	ABF. Composite cable. Fixed fibre service lead ETP. Duplex fixed fibre service leads. Aerial clamps. ONT. 1 way ruggedised microduct.

Note2: Refer to Appendix A for Basic connection code decision tree

CODE N-562: Basic Connection - Ruggedised

Short Code:

Connection - Ruggedised

Code Unit:

Per NGA install service order

Outcome Description:

Complete all work to successfully connect the End Customer brownfield premise to the Chorus network and deliver a NGA service.

Installation should not commence until the "UFB Installation Consent Form" & other relevant documentation are completed and signed.

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Installation by means of Ruggedised when it is the predominant methodology for the service lead-in based on distance from the network drop off point at the boundary to the premises.
- Installation of the service lead-in by means of Aerial and Haul methodologies are included where the distance is less than the Ruggedised activity for service lead-in installation.
- Installation of the service lead-in by means of Trenching is included up to 5m inside and/or outside the boundary. Slot Trenching is a method of Trenching therefore is included and must adhere the standards set out in ND13035.
- Installation of the service lead-in by means of Drilling is included up to 5m inside and/or outside the boundary
- Installation of the service lead-in where Hard Surface reinstatement is required up to $3m^2$ inside and/or outside the boundary.
- Hard Surface reinstatement must be a like for like replacement of the hard surface removed with best endeavours efforts made to guarantee colour and finish match. Specific details are set out in ND0604 Sections 5, 6 and 7.
- Fibre connection from FAT to ETP, including blowing of ABF or Hauling of Fixed Fibre and installation of ETP.
- All fibre management at the Chorus fibre access terminals, ETP and ONT, including data card entry and labelling requirements.
- Completion of all boundary and lead-in work (no distinction between inside and outside boundary (i.e. includes both), multiple civil methodologies may apply.
- Installation of Composite cable by method of Cavity wiring under floors, in ceilings and internal walls where practical or surface mounting and in accordance with correct installation practices.
- RGW, ONT, ITP installation and commissioning.
- Internal wiring integration.
- Testing, commissioning, records.
- Chorus service experience including completion of a Scope and all appropriate signoffs including the UFB Installation Consent form.
- RGW stock Management where stock management agreements are in place between Chorus and the service partner.
- Where the technician is unable to resolve layer 2 connection issues with the RSP within a reasonable amount of time, then the Basic Connection Code should be claimed and the job IVR'd. If the technician is required to return to that job to complete the connection, Chorus will allow an N-750 Code to be claimed alongside the Basic Connection code (to cover the return visit), provided that

sufficient information is provided on that service order to support the claim. Sufficient evidence is deemed to be enough information for Chorus to take that issue away for on-charging and resolution with the RSP, including names, dates & times. For example, if the technician is kept on hold for 30-minutes, it could be assumed that there is going to be no further activity and any further wait time is going to delay the next service order, and it would be reasonable for that tech to hang up and return at a later date, if required.

- For the avoidance of doubt, if the technician has been actively talking with the RSP who are actively working to resolve the issue, then it is expected that the Technician will continue with that call until the issue is resolved (noting that from time to time this could take longer than 30-minutes).
- The Basic Connection codes include wall penetrations and fire stopping. Any penetration through a solid masonry wall or floor using a core drill for the purpose of transporting Chorus Network up to 63mm OD duct and a maximum thickness of 300 mm. (over 300mm thickness to be quoted to Chorus and approved in advance), including Disposal of the removed wall material and sealing of the penetration from water and gas ingress.
- Fire stopping of a wall or floor penetration up to 300mm floor/wall depth/thickness (Over 300mm excluded) where necessarily required as specified in the relevant building standards (including the supply of approved/suitable fire stopping products (e.g. Hilti, CSD, Firepro) and any product related certifications required), but excluding 3M Re-sealable fire stopping kits). Where a penetration exists with no (or substandard) stopping, no stopping should be installed. Before & after photos should be taken as proof stopping did not exist or was substandard prior to installation.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions, the following exclusions will apply:

- Any works covered by the Faulty Network or UFB Augmentation processes.
- Internal capping systems for internal cabling.
- Connections within an MDU – see the 552 or 554 Code.
- Connections where build has been completed to the ETP (which may occur in some ROW's) - see the appropriate 552 or 554 Code.
- Any structural integrity engineering assessments, incl. X-Rays or other specialist reporting required (on an ad hoc basis or as a result of any proposed wall or floor penetrations or fire topping activities) for investigate ng or certifying the integrity of building (which will be the Customers responsibility), including post-installation compliance such as building certifications / WOF.
- Subsequent truck roll in instances where the RGW is not onsite by time of installation completion and is not a stock managed RGW - see the N-750 Code.
- Additional scope activity where an SDU install cannot proceed – LSF, MDU / ROW communal build or Power Line info required: See N–U701 Internal top up code
- Additional aerial work required where install requires 2 spans or more: See N–U705 Internal top up code
- Where a large (100L) compressor is required to blow the fibre from network point to customer ETP – See N-U706 internal top up code
- Where large rodding equipment (>200m) or mechanical hauling is required for outside boundary hauling see N-U707 Internal top up code

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties (per lot). ITP. Duct and miscellaneous duct materials e.g. glue, clips, screws.

Indicative materials	
	Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	ABF. Composite cable. Fixed fibre service lead ETP. Duplex fixed fibre service leads. Aerial clamps. ONT. 1 way ruggedised microduct.

Note$_2$: Refer to Appendix A for Basic connection code decision tree

CODE N-563: Basic Connection - Trenching

Short Code:

Connection - trenching

Code Unit:

Per NGA install service order

Outcome Description:

Complete all work to successfully connect the End Customer brownfield premise to the Chorus network and deliver a NGA service.

Installation should not commence until the "UFB Installation Consent Form" & other relevant documentation are completed and signed.

Note: To claim this code the Subcontractor must follow the high cost approval process set out by the Company.

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Installation by means of Trenching when it is greater than 5m inside and/or outside the boundary and when it is the predominant installation methodology for the service lead-in based on distance from the network drop off point at the boundary to the premises. Specific details for trenching standards are set out in ND0604 and 7502. Slot Trenching is a method of Trenching therefore is included and must adhere the standards set out in ND13035.
- Installation of the service lead-in by means of Aerial, Haul and Ruggedised methodologies are included.
- Installation of the service lead-in by means of Drilling is included up to 5m inside and/or outside the boundary
- Installation of the service lead-in where Hard Surface reinstatement is required up to 3m^2 inside and/or outside the boundary.
- Hard Surface reinstatement must be a like for like replacement of the hard surface removed with best endeavours efforts made to guarantee colour and finish match. Specific details are set out in ND0604 Sections 5, 6 and 7.
- Fibre connection from FAT to ETP, including blowing of ABF or Hauling of Fixed Fibre and installation of ETP
- All fibre management at the Chorus fibre access terminals, ETP and ONT, including data card entry and labelling requirements.
- Completion of all boundary and lead-in work (no distinction between inside and outside boundary (i.e. includes both), multiple civil methodologies may apply.
- Installation of Composite cable by method of Cavity wiring under floors, in ceilings and internal walls where practical or surface mounting and in accordance with correct installation practices.
- RGW, ONT, ITP installation and commissioning.
- Internal wiring integration.
- Any reinstatement required within the constraints of this code. I.E. less than or equal to 3m^2. Reinstatement of hard surfaces must be a like for like replacement of the hard surface removed but does need to guarantee colour, finish or age match. Specific details are set out in ND0604 v1.1 Sections 5, 6 and 7.
- Testing, commissioning, records.
- Chorus service experience including completion of a Scope and all appropriate signoffs including the UFB Installation Consent form.

- RGW stock Management where stock management agreements are in place between Chorus and the service partner.
- Where the technician is unable to resolve layer 2 connection issues with the RSP within a reasonable amount of time, then the Basic Connection Code should be claimed and the job IVR'd. If the technician is required to return to that job to complete the connection, Chorus will allow an N-750 Code to be claimed alongside the Basic Connection code (to cover the return visit), provided that sufficient information is provided on that service order to support the claim. Sufficient evidence is deemed to be enough information for Chorus to take that issue away for on-charging and resolution with the RSP, including names, dates & times. For example, if the technician is kept on hold for 30-minutes, it could be assumed that there is going to be no further activity and any further wait time is going to delay the next service order, and it would be reasonable for that tech to hang up and return at a later date, if required.
- For the avoidance of doubt, if the technician has been actively talking with the RSP who are actively working to resolve the issue, then it is expected that the Technician will continue with that call until the issue is resolved (noting that from time to time this could take longer than 30-minutes).
- The Basic Connection codes include wall penetrations and fire stopping. Any penetration through a solid masonry wall or floor using a core drill for the purpose of transporting Chorus Network up to 63mm OD duct and a maximum thickness of 300 mm. (over 300mm thickness to be quoted to Chorus and approved in advance), including Disposal of the removed wall material and sealing of the penetration from water and gas ingress.
- Fire stopping of a wall or floor penetration up to 300mm floor/wall depth/thickness (Over 300mm excluded) where necessarily required as specified in the relevant building standards (including the supply of approved/suitable fire stopping products (e.g. Hilti, CSD, Firepro) and any product related certifications required), but excluding 3M Re-sealable fire stopping kits). Where a penetration exists with no (or substandard) stopping, no stopping should be installed. Before & after photos should be taken as proof stopping did not exist or was substandard prior to installation.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions, the following exclusions will apply:

- Any works covered by the Faulty Network or UFB Augmentation processes.
- Internal capping systems for internal cabling.
- Premises networking that qualify for Premises Networking codes.
- Connections within an MDU – see the 552 or 554 Code.
- Connections where build has been completed to the ETP (which may occur in some ROW's) - see the appropriate 552 or 554 Code.
- Any structural integrity engineering assessments, incl. X-Rays or other specialist reporting required (on an ad hoc basis or as a result of any proposed wall or floor penetrations or fire topping activities) for investigate ng or certifying the integrity of building (which will be the Customers responsibility), including post-installation compliance such as building certifications / WOF.
- Subsequent truck roll in instances where the RGW is not onsite by time of installation completion and is not a stock managed RGW - see the N-750 Code.
- Additional scope activity where an SDU install cannot proceed – LSF, MDU / ROW communal build required or Power Line info required

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties (per lot). ITP. Duct and miscellaneous duct materials e.g. glue, clips, screws.

Indicative materials	
	Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	ABF. Composite cable. Fixed fibre service lead ETP. Duplex fixed fibre service leads. Aerial clamps. ONT. 1 way ruggedised microduct.

Note$_2$: Refer to Appendix A for Basic connection code decision tree

CODE N-564: Basic Connection - Drilling

Short Code:

Connection - drilling

Code Unit:

Per NGA install service order

Outcome Description:

Complete all work to successfully connect the End Customer brownfield premise to the Chorus network and deliver a NGA service.

Installation should not commence until the "UFB Installation Consent Form" & other relevant documentation are completed and signed.

Note: To claim this code the Subcontractor must follow the high cost approval process set out by the Company.

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Installation by means of Drilling is greater than 5m inside and/or outside the boundary and is the predominant installation methodology for the service lead-in based on distance from the network drop off point at the boundary to the premises. Entry and Exit holes for drill shots and included in this code. Specific details for Drilling standards are set out in ND0604 V1.1 and 7502 V3.0
- Installation of the service lead-in by means of Aerial, Haul and Ruggedised methodologies are included.
- Installation of the service lead-in by means of Trenching is included up to 5m inside and/or outside the boundary. Slot Trenching is a method of Trenching therefore is included and must adhere the standards set out in ND13035.
- Installation of the service lead-in where Hard Surface reinstatement is required up to $3m^2$ inside and/or outside the boundary.
- Hard Surface reinstatement must be a like for like replacement of the hard surface removed with best endeavours efforts made to guarantee colour and finish match. Specific details are set out in ND0604 Sections 5, 6 and 7.
- Fibre connection from FAT to ETP, including blowing of ABF or Hauling of Fixed Fibre and installation of ETP
- All fibre management at the Chorus fibre access terminals, ETP and ONT, including data card entry and labelling requirements.
- Completion of all boundary and lead-in work (no distinction between inside and outside boundary (i.e. includes both), multiple civil methodologies may apply.
- Installation of Composite cable by method of Cavity wiring under floors, in ceilings and internal walls where practical or surface mounting and in accordance with correct installation practices.
- RGW, ONT, ITP installation and commissioning.
- Internal wiring integration.
- Testing, commissioning, records.
- Chorus service experience including completion of a Scope and all appropriate signoffs including the UFB Installation Consent form.
- RGW stock Management where stock management agreements are in place between Chorus and the service partner.

- Where the technician is unable to resolve layer 2 connection issues with the RSP within a reasonable amount of time, then the Basic Connection Code should be claimed and the job IVR'd. If the technician is required to return to that job to complete the connection, Chorus will allow an N-750 Code to be claimed alongside the Basic Connection code (to cover the return visit), provided that sufficient information is provided on that service order to support the claim. Sufficient evidence is deemed to be enough information for Chorus to take that issue away for on-charging and resolution with the RSP, including names, dates & times. For example, if the technician is kept on hold for 30-minutes, it could be assumed that there is going to be no further activity and any further wait time is going to delay the next service order, and it would be reasonable for that tech to hang up and return at a later date, if required.
- For the avoidance of doubt, if the technician has been actively talking with the RSP who are actively working to resolve the issue, then it is expected that the Technician will continue with that call until the issue is resolved (noting that from time to time this could take longer than 30-minutes).
- The Basic Connection codes include wall penetrations and fire stopping. Any penetration through a solid masonry wall or floor using a core drill for the purpose of transporting Chorus Network up to 63mm OD duct and a maximum thickness of 300 mm. (over 300mm thickness to be quoted to Chorus and approved in advance), including Disposal of the removed wall material and sealing of the penetration from water and gas ingress.
- Fire stopping of a wall or floor penetration up to 300mm floor/wall depth/thickness (Over 300mm excluded) where necessarily required as specified in the relevant building standards (including the supply of approved/suitable fire stopping products (e.g. Hilti, CSD, Firepro) and any product related certifications required), but excluding 3M Re-sealable fire stopping kits). Where a penetration exists with no (or substandard) stopping, no stopping should be installed. Before & after photos should be taken as proof stopping did not exist or was substandard prior to installation.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions, the following exclusions will apply:

- Any works covered by the Faulty Network or UFB Augmentation processes.
- Internal capping systems for internal cabling.
- Premises networking that qualify for Premises Networking codes.
- Connections within an MDU – see the 552 or 554 Code.
- Connections where build has been completed to the ETP (which may occur in some ROW's) - see the appropriate 552 or 554 Code.
- Any structural integrity engineering assessments, incl. X-Rays or other specialist reporting required (on an ad hoc basis or as a result of any proposed wall or floor penetrations or fire topping activities) for investigate ng or certifying the integrity of building (which will be the Customers responsibility), including post-installation compliance such as building certifications / WOF.
- Subsequent truck roll in instances where the RGW is not onsite by time of installation completion and is not a stock managed RGW - see the N-750 Code.

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties (per lot). ITP. Duct and miscellaneous duct materials e.g. glue, clips, screws. Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	ABF. Composite cable.

Indicative materials	
	Fixed fibre service lead ETP. Duplex fixed fibre service leads. Aerial clamps. ONT. 1 way ruggedised microduct.

Note2: Refer to Appendix A for Basic connection code decision tree

CODE N-565: Basic Connection – Hard Surface Reinstatement

Short Code:

Connection - reinstatement

Code Unit:

Per NGA install service order

Outcome Description:

Complete all work to successfully connect the End Customer brownfield premise to the Chorus network and deliver a NGA service.

Installation should not commence until the "UFB Installation Consent Form" & other relevant documentation are completed and signed.

Note: To claim this code the Subcontractor must follow the high cost approval process set out by the Company

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Installation of a service lead-in where hard surface reinstatement is greater than 3m^2 inside and/or outside the boundary from the network drop off point to the premises – no limit to amount of reinstatement required and includes full width reinstatement if required.
- Hard Surface reinstatement must be a like for like replacement of the hard surface removed with best endeavours efforts made to guarantee colour and finish match. Specific details are set out in ND0604 Sections 5, 6 and 7.
- Installation of the service lead-in by means of Aerial, Haul and Ruggedised methodologies are included.
- Installation of the service lead-in by means of Trenching and Drilling are included inside and/or outside the boundary. Slot Trenching is a method of Trenching therefore is included and must adhere the standards set out in ND13035.
- Fibre connection from FAT to ETP, including blowing of ABF or Hauling of Fixed Fibre and installation of ETP.
- All fibre management at the Chorus fibre access terminals, ETP and ONT, including data card entry and labelling requirements.
- Completion of all boundary and lead-in work (no distinction between inside and outside boundary (i.e. includes both), multiple civil methodologies may apply.
- Installation of Composite cable by method of Cavity wiring under floors, in ceilings and internal walls where practical or surface mounting and in accordance with correct installation practices.
- RGW, ONT, ITP installation and commissioning.
- Internal wiring integration.
- Testing, commissioning, records and all appropriate signoffs including the UFB Installation Consent form.
- Chorus service experience including completion of a Scope.
- RGW stock Management where stock management agreements are in place between Chorus and the service partner.
- Where the technician is unable to resolve layer 2 connection issues with the RSP within a reasonable amount of time, then the Basic Connection Code should be claimed and the job IVR'd. If the technician is required to return to that job to complete the connection, Chorus will allow an N-750 Code to be claimed alongside the Basic Connection code (to cover the return visit), provided that

sufficient information is provided on that service order to support the claim. Sufficient evidence is deemed to be enough information for Chorus to take that issue away for on-charging and resolution with the RSP, including names, dates & times. For example, if the technician is kept on hold for 30-minutes, it could be assumed that there is going to be no further activity and any further wait time is going to delay the next service order, and it would be reasonable for that tech to hang up and return at a later date, if required.

- For the avoidance of doubt, if the technician has been actively talking with the RSP who are actively working to resolve the issue, then it is expected that the Technician will continue with that call until the issue is resolved (noting that from time to time this could take longer than 30-minutes).
- The Basic Connection codes include wall penetrations and fire stopping. Any penetration through a solid masonry wall or floor using a core drill for the purpose of transporting Chorus Network up to 63mm OD duct and a maximum thickness of 300 mm. (over 300mm thickness to be quoted to Chorus and approved in advance), including Disposal of the removed wall material and sealing of the penetration from water and gas ingress.
- Fire stopping of a wall or floor penetration up to 300mm floor/wall depth/thickness (Over 300mm excluded) where necessarily required as specified in the relevant building standards (including the supply of approved/suitable fire stopping products (e.g. Hilti, CSD, Firepro) and any product related certifications required), but excluding 3M Re-sealable fire stopping kits). Where a penetration exists with no (or substandard) stopping, no stopping should be installed. Before & after photos should be taken as proof stopping did not exist or was substandard prior to installation.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions, the following exclusions will apply:

- Any works covered by the Faulty Network or UFB Augmentation processes.
- Internal capping systems for internal cabling.
- Premises networking that qualify for Premises Networking codes.
- Connections within an MDU – see the 552 or 554 Code.
- Connections where build has been completed to the ETP (which may occur in some ROW's) - see the appropriate 552 or 554 Code.
- Any structural integrity engineering assessments, incl. X-Rays or other specialist reporting required (on an ad hoc basis or as a result of any proposed wall or floor penetrations or fire topping activities) for investigate ng or certifying the integrity of building (which will be the Customers responsibility), including post-installation compliance such as building certifications / WOF.
- Subsequent truck roll in instances where the RGW is not onsite by time of installation completion and is not a stock managed RGW - see the N-750 Code.
- Additional scope activity where an SDU install cannot proceed – LSF, MDU / ROW communal build required or Power Line info required.

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties (per lot). ITP. Duct and miscellaneous duct materials e.g. glue, clips, screws. Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	ABF. Fixed fibre service lead ETP.

Indicative materials	
	Duplex fixed fibre service leads. Aerial clamps. ONT. 1 way ruggedised microduct.

Note$_2$: Refer to Appendix A for Basic connection code decision tree

CODE N-701: Scope NGA Install – Full Scope

Short Code:

NGA Full Scope

Platforms covered:

NGA

Code unit:

Per Service Order (or work request when used for MDUs/RoWs etc)

Outcome Description:

On-site Scope of End-customers site.

Carry out detailed on-site Scope of End Customers site prior to an NGA installation to mitigate install failures.

Only one instance of this code can be claimed on each service order (or work request when used for MDUs/RoWs etc).

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Pre-call End Customer to confirm availability and / or estimated time of arrival.
- Keep the End Customer informed at all times.
- Locate UFB drop off and ETP location.
- Confirm existing conduit is available and conduit can be used (existing 049 is moving including digging at the pillar and other tasks as necessary to prove continuity & ensure that 20mm is viable). This may include a second dig if necessary.
- Confirm ONT location and route taken, including additional wiring for the RGW installation (where the factory-provided patch cord cannot be used due to RGW location) that will be charged through the relevant RSP chargeable T&M codes.
- Complete & sign “UFB Installation Consent Form” & other relevant documentation (including the completed scope document which can then be used for the installation and/or MDU/RoW consenting)
- Walk End Customer through installation requirements and confirm how long they are required to be on site, Includes health and safety requirements.
- Confirm any WYAH work required (i.e. additional outlets/RGW install).
- Identify if any other issues require resolution, including check-list* of pre-defined tasks (i.e. check for tee off, identify potential obstructions, any consents required). Includes checking distribution network allocation is aligned with Service Order (or work request when used for MDUs/RoWs etc) tracings.
- Determine resource and material requirements to complete order in full (i.e. Civil, aerial crew).
- Apply for obstruction plans and consents prior to the installation date, the non-administrative cost of plans will be covered in the task code for that task.
- Provide detailed report to all technicians involved with install.
- Where the End Customer is not available on site, only the Half Scope code can be claimed.
- Where Layer 0 MINEX requirements are identified, an RMR is to be completed Examples include (but are not limited to): cabinet latches & locks, broken pedestals & pillars, broken lids & manholes, and broken service pipes on poles.

- Where the NGA Scoper identifies a Business SDU has a non-standard Business SDU that requires a network cable plan to be completed for complex internal wiring, this code cannot be claimed – see the 757 Codes.
- NGA Scopers should only refer NGA Business orders to the MDU/RoW Fibre Access Build process where they are certain that the site is indeed within an MDU or RoW.
- If any service company personnel are not certain if an order is to be processed as a SDU or MDU, they should contact their Chorus Delivery Specialist for further clarification.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.
- This code does not include where additional information is required to allow the install to proceed – Last Step Fibre, Power Line Information required or MDU / ROW referrals – Please see N U-701 Internal Top Up Code.

Checklist:
• ETP to ONT • Drop-off to ETP checking to identify civil component of install, including: • Excavation in grass surfaces • Identify at drop-off that hand-hold or other is present, including labelling • Identification of existing 20mm & location of drop-off • Checking continuity of existing duct, including digging in grass & rodding from pillar for non-grass surfaces • Cable location & marking out blockages • Identification of most efficient & effective resolution to blockages • Aerial Service Lead Route unobstructed • Communal network - No tape checking required

Details:
N/A

CODE N-702: Scope NGA Install – Half Scope

Short Code:

NGA Half Scope

Platforms covered:

NGA

Code unit:

Per Service Order (or work request when used for MDUs/RoWs etc)

Outcome Description:

On-site Scope Install – no access to End Customers site.

Carry out detailed on-site Scope prior to an NGA installation. Includes scoping to the ETP providing End Customer permission has been granted to access the site.

Only one instance of this code can be claimed on each service order (or work request when used for MDUs/RoWs etc).

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Pre-call End Customer to confirm availability and / or estimated time of arrival.
- Keep the End Customer informed at all times.
- Locate UFB drop off and ETP location.
- If site access is available, confirm existing conduit is available and conduit can be used (existing 049 is moving including digging at the pillar and other tasks as necessary to prove continuity & ensure that 20mm is viable). This may include a second dig if necessary.
- Identify if any other issues require resolution, including check-list* of pre-defined tasks (i.e. check for tee off, identify potential obstructions, any consents required). Includes checking distribution network allocation is aligned with Service Order (or work request when used for MDUs/RoWs etc) tracings.
- Determine resource and material requirements to complete order in full (i.e. Civil, aerial crew).
- Apply for obstruction plans and consents prior to the installation date, the non-administrative cost of plans will be covered in the task code for that task.
- Completed scope document which can then be used for SDU installations and/ or MDU/RoW consenting.
- Provide detailed report to all technicians involved with install.
- Only one instance of this code can be claimed on each service order (or work request when used for MDUs/RoWs etc).
- Only tasks up to the boundary / ETP can be completed.
- Explicit permission to enter an End Customer property is not required; however explicit permission must be provided by the End Customer for any manual works such as pot-holing.
- Where Layer 0 MINEX requirements are identified, an RMR is to be completed Examples include (but are not limited to): cabinet latches & locks, broken pedestals & pillars, broken lids & manholes, and broken service pipes on poles.
- Where the NGA Scoper identifies a Business SDU has a non-standard Business SDU that requires a network cable plan to be completed for complex internal wiring, this code cannot be claimed – see the 757 Codes.

- NGA Scopers should only refer NGA Business orders to the MDU/RoW Fibre Access Build process where they are certain that the site is indeed within an MDU or RoW.
- If any service company personnel are not certain if an order is to be processed as a SDU or MDU, they should contact their Chorus Delivery Specialist for further clarification.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

Checklist:
• Drop-off to ETP checking to identify civil component of install, including: • Excavation in grass surfaces • Identify at drop-off that hand-hold or other is present, including labelling • Identification of existing 20mm & location of drop-off • Checking continuity of existing duct, including digging in grass & rodding from pillar for non-grass surfaces • Cable location & marking out blockages • Identification of most efficient & effective resolution to blockages • Aerial Service Lead Route unobstructed • Communal network - No tape checking required

Details:
N/A

CODE N-714: NGA Cancellation on Arrival

Short Code:

NGA Cancellation

Platforms covered:

NGA

Code unit:

Per Service Order (or work request when used for MDUs/RoWs etc)

Outcome Description:

Cancellation of NGA Order following a van or truck roll, or redirection from one work flow to another, e.g. MDU job that is identified as an SDU upon scope.

Cancellation processes and End Customer charging (if required).

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Confirm cancellation request with End Customer.
- Complete Sales and Service Advice Note including End Customer signature.
- Advise Service Company Dispatch of cancellation request and redirect request where applicable.
- Follow the required Cancellation Process within the Chorus systems.
- Where a cancellation occurs when the technician arrives at site, a signed Sales and Service Advice Note must be completed and the correct End Customer charging SPOT Codes must be applied to claim this Code (note that this does not apply to redirections as the job is still to proceed).
- This Code can only be claimed if the cancellation or redirection occurs on the day of the install and a technician has been deployed to that site (i.e. if the cancellation or redirection occurs the day before, then this code cannot be claimed, or if the cancellation or redirection for a pm job occurs in the am, then this code cannot be claimed).
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

Details:

N/A

CODE N-750: End Customer Site Networking - Site Visit

Short Code:

NGA Networking

Platforms covered:

NGA

Code unit:

Per Service Order

Outcome Description:

Site visit for technician to undertake relevant activities, including technician travel time and vehicle costs.

Only one instance of this code can be claimed on each Service Order.

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Customer liaison.
- This code can only be claimed where the NGA service is already in place and only internal End Customer site networking is required.
- Where RSP's request a technician to return to site following the completion of a basic connection for either of the following reasons:

a) Requests the technician to return and install the RSP supplied RGW which was not on site at the time the technician completed the basic connection.

b) Requests the technician to return and assist resolving layer 2 issues, which could not be done during the original site visit as RSP Layer 2 wait time exceeds the allocated hold time of 30 minutes.

Sufficient evidence by means of enough information for Chorus to take that issue away for on-charging and resolution with the RSP must be supplied if this code is claimed for the reasons stated above.

- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- This code does not include any time associated with performing the relevant task(s).

Details:

N/A

CODE N-751: Installation of an Additional ONT or Relocate ONT

Short Code:

NGA Additional ONT

Platforms covered:

NGA

Code unit:

Per ONT

Outcome Description:

Install an additional ONT (over and above the ONT installed under an NGA Provisioning job), or relocation of previously installed ONT at a residential address.

Assumes a spare fibre is in place from the FFP and/or ABFAT to home distribution box in the End Customer's site.

Multiples of this code can be claimed where multiple ONTs are installed or relocated (note that the first ONT installed under a basic connection cannot be claimed).

Types of work included/excluded:

In addition to the generic inclusion ns (where relevant), the following inclusions will apply:

- Stock Management of the RGW for relevant RSP's.
- Route customer fibre onto tray in cabinet & manage customer fibre at the ETP using Chorus Fibre management standards.
- Complete cabinet tray data card.
- Extend Fibre cable from ETP position to the agreed ONT location in the home distribution box.
- Install ONT Fibre tray.
- All splicing at the FFP and/or ABFAT, ETP or internal building termination point and ONT.
- Complete FIP testing as required.
- Install ONT and connect to 240V outlet (240v outlet provided by End Customer).
- Configure and confirm (commission) operation of ONT using Service Completion Guide.
- Connect Plug n Play Residential Gateway and test Internet and Voice services.
- Internal wiring integration.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Installation of Composite Cable – see the 791 Code.
- Where End Customer site wiring is required – see the relevant End Customer site wiring Codes i.e. N-751, N-752, N-753, N-754, N-755, N-756, N-762.
- This code does not include technician travel – see the N-750 Code.

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties etc. (per lot). Single Face Plate ITP Kit (Hybrid Outlet), including: • Wall Mount ITP • RJ45 Jack • Keystone adapter. Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	ONT and ONT Backing Tray.

CODE N-752: Installation of Ethernet Jackpoint

Short Code:

NGA Ethernet Jackpoint

Platforms covered:

NGA

Code unit:

Per Jackpoint

Outcome Description:

Point to point connection to provide RJ45 and Ethernet connectivity to another room other than the room the RGW is in.

Multiples of this code can be claimed where multiple point to point jack point connections are installed

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Install CAT6 Ethernet cable from one RJ45 outlet to another RJ45 outlet inside the End Customer site.
- No distance limit on this code.
- Includes installation of an RJ45 at either or both ends if required and any point to point Ethernet wiring.
  Note: Chorus no longer offers Neat Capping as a service.
- While you are here (WYAH) services.
  Note: these are restricted to 2 jack-points and should only be undertaken where WYAH has been approved by the RSP and is set out in the service order.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- This code does not include technician travel – see the N-750 Code.

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties etc. (per lot). Ethernet cable. Single Face Plate ITP Kit (Hybrid Outlet), including: • Wall Mount ITP • RJ45 Jack • Keystone adapter. Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	N/A

CODE N-753: Installation of CPE - Simple

Short Code:

NGA CPE - simple

Platforms covered:

NGA

Code unit:

Per device

Outcome Description:

Installation of simple Customer Premise Equipment (CPE) at an End Customer site.

Includes integration of Sky, TV, VOIP handset type devices, providing that these can be integrated via WiFi or patch-cord.

Multiples of this code can be claimed where multiple devices are installed (note that the first RGW installed under a basic connection cannot be claimed).

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- CPE Installation:
  - Configure non plug and play RGWs
  - Setup Wi-Fi
  - Installation and set-up of a set top box (STB).
- Includes relocation of previously installed CPE.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Does not include configuring wireless LAN networks and customer devices such as wireless printers, tablets etc (which is a service not offered by Chorus).
- Where End Customer site wiring is required – see the relevant End Customer site wiring Codes i.e. N-751, N-752, N-753, N-754, N-755, N-756, N-762.
- This code does not include technician travel – see the N-750.

Details:

N/A

CODE N-754: Installation of CPE - Complex (Business)

Short Code:

NGA CPE - complex

Platforms covered:

NGA

Code unit:

Per device

Outcome Description:

Installation of complex Customer Premise Equipment (CPE) at an End Customer site.

Installation of complex router switches used for delivery of business grade services. Includes: install and configure CPE device, Function test of CPE, Functional Test of Service Provider layer 2 or 3 service, setup WiFi.

Multiples of this code can be claimed where multiple devices are installed (note that the first RGW installed under a basic connection cannot be claimed).

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- CPE Installation:
  - Configure non plug and play RGWs
  - Setup Wi-Fi
  - Installation and set-up of a set top box (STB).
- Includes relocation of previously installed CPE
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Does not include configuring wireless LAN networks and customer devices such as wireless printers, tablets etc (which is a service not offered by Chorus).
- Where End Customer site wiring is required – see the relevant End Customer site wiring Codes i.e. N-751, N-752, N-753, N-754, N-755, N-756, N-762.
- This code does not include technician travel – see the N-750 Code.

Details:

N/A

CODE N-755: Small Enclosure

Short Code:

Small Enclosure

Platforms covered:

NGA

Code unit:

Per Service Order (or work request when used for MDUs/RoWs etc)

Outcome Description:

Supply & install small enclosure.

Must be purchased in time for new connection or in connection with the installation of enclosure and site visit.

Multiples of this code can be claimed where multiple devices are installed (note that the first RGW installed under a basic connection cannot be claimed).

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Supply & install small enclosure:
  - Huawei CTB2101 - 100 fibre customer Termination Box.
- Includes relocation of previously installed enclosure.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Where End Customer site wiring is required – see the relevant End Customer site wiring Codes i.e. N-751, N-752, N-753, N-754, N-755, N-756, N-762.
- This code does not include technician travel – see the N-750.

Details:

Indicative materials	
Consumable	Huawei CTB2101 - 100 fibre customer Termination Box. Miscellaneous materials e.g. tape, ties etc. (per lot). Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	N/A

CODE N-756: Medium Enclosure

Short Code:

Medium Enclosure

Platforms covered:

NGA

Code unit:

Per Service Order (or work request when used for MDUs/RoWs etc)

Outcome Description:

Supply & install medium enclosure.

Must be purchased in time for new connection or in connection with the installation of enclosure and site visit.

Multiples of this code can be claimed where multiple devices are installed (note that the first RGW installed under a basic connection cannot be claimed).

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Supply & install small enclosure:
  - Prysmian Home Hub with universal back plate.
- Includes relocation of previously installed enclosure.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Where End Customer site wiring is required – see the relevant End Customer site wiring Codes i.e. N-751, N-752, N-753, N-754, N-755, N-756, N-762.
- This code does not include technician travel – see the N-750 Code.

Details:

Indicative materials	
Consumable	Prysmian Home Hub with universal back plate, keys. Miscellaneous materials e.g. warning tape, tape, ties etc. (per lot). Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	N/A

CODE N-762: Migration of Copper POTS Customers to VOIP for Existing NGA Connection

Short Code:

Migrate POTS

Platforms covered:

NGA

Code unit:

Per Service Order

Outcome Description:

Migrate Copper POTs to VOIP for existing NGA connections.

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- This code only applies to a POTS to VOIP migration for existing NGA customers, and cannot be claimed where that migration is undertaken as part of a Basic Connection for NGA.
- RQ the existing POTS service at the ETP, and pick up the home wiring in the blue & blue/white pair of the composite cable as described in ND0563.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- This code does not include technician travel – see the N-750.

Details:

Indicative materials	
Consumable	RJ45 to RJ45 Patch cord cable. RJ45 jackpoint & components. Miscellaneous materials e.g. warning tape, tape, ties etc. (per lot). Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	N/A

CODE N-763: Enhanced Business Care

Short Code:

Business Care

Platforms covered:

NGA

Code unit:

Per 2I, 29, X7 or R9 Service Order

Outcome Description:

To ensure qualifying business service orders attract a very high standard of customer care and delivery management. These standards are specified in the code inclusions below. Payment of this code is conditional on the Service Company delivering the required customer service standards.

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Deliver the required customer service standards. This includes:
- Providing a single point of contact in dispatch for all interactions on the job:
- The Customer order is connected on the day scheduled in the Chorus system meeting our Customer Commitment. All jobs brought forward for Provisioning, must be updated in the Chorus system at least 24 hours in advance of the Service Given time, to be considered as Commitment Met.
- Service Company utilises a single point of contact within dispatch for Chorus and the Service Company Technician(s) completing the job and provides the name and contact details of that person to both. This single point of contact is responsible for liaising with the following Service Partner Teams on behalf of Chorus:
- Scheduling – Last Step Fibre Build (LSFB), Faulty Network and Network Augmentation,
- Records Administration Group (RAG Team),
- Field Managers and Technicians,
- Reinstatement Teams.
- The Service Company dispatch contact in point 2 above monitors the job from beginning to end and provides updates to Chorus in as close to real time as possible on progress, including Build Expected Completion Date (ECD), Build Commence Date, issues identified, reschedules, delays, and whether LSFB, Faulty Network or Network Augmentation work has been identified as required. The Service Company single point of contact is also responsible for identifying and ordering additional plant and equipment and / or materials (e.g., Elevated Work Platforms) such that the job can be completed, ensuring consents are achieved, scheduling build and providing LSFB quotes within Chorus` LSFB Service Levels.
- Complete an accurate work-packet provided to Service Company deployment lead.
- Providing a single point of contact in the field for deployment of the connection :
- Service Company provides a single point of contact/project lead for the deployment of the connection. That lead does the scope, the connect and the build (or supervises the build any Faulty Network Augmentation) where specialist skills are required). The Lead will have all current Chorus Minimum Competencies, and will have had at least 2 years fibre provisioning installation experience. The Service Company provides the name and contact details of that person to the End Customer and Chorus.
- The End Customer receives a pre call at least 30 minutes before any end customer appointment (and that pre call is recorded and logged).
- The Service Company provides an AM appointment slot where available, unless PM is requested by the Customer (must be reflected in the Scheduling system).

- Where the need for Network Augmentation is identified that work is completed within 2 business days (or such other reasonable time agreed with Chorus) of the scheduled connect date. If this requirement could have been identified as part of the scope the work must be completed prior to the scheduled connect date. Faulty Network is to be completed before the connection date.
- Completion of Better Business Update Templates for scope completion, any reschedules, Build ECD and Service Order Sign-off including Tech Mate Test.
- Provide UFB Communal Network Plans and As-Builts to the Technician / project Lead prior to the Scope appointment.
- Diagnoses and remediation of records where issues are identified that will delay or impact the install.
- Prioritisation of Network Augmentation work where required.
- Real-time updates by phone, email and in ICMS as specified in the Enhanced Business Care Chorus Service Experience Document ND13076.
- Providing the signed Sales and Service Advice note to UFB Connect billing with speed test results attached.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

Details: N/A

CODE N-791: Install Composite Cable

Short Code:

NGA Composite Cable

Platforms covered:

NGA

Code unit:

Per Service Order (or work request when used for MDUs/RoWs etc)

Outcome Description:

Install Composite Cable via Chorus approved wiring methods.

Only one instance of this code can be claimed on each Service Order (or work request when used for MDUs/RoWs etc).

This code can only be used in conjunction with the 751 Code.

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Install Composite Cable via Chorus approved wiring methods pursuant to the NGA Provisioning & Assure Task Handbook ND0563.
- No distance limit on this code, and includes passing through multiple rooms if necessary.
- For residential application, includes any required cabling & mounting materials.
  Note: Chorus no longer offers Neat Capping as a service.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- This code does not include technician travel – refer to End Customer site Networking – Site Visit code when used in an SDU environment, or the relevant Technician Mobilisation code when used in an MDU environment.
- For commercial applications where support systems are required – see the I02 Codes.

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties etc. (per lot). Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	Composite cable.

CODE N-733: Install Surface Mounted Service Conduit

Short Code:

Install surface mounted service conduit

Code Unit:

Per single duct per metre

Types of Work included:

Install a single surface mounted service conduit on all surface types

Indicative task list:

Combination of any of the following tasks required to achieve the outcomes stipulated in the Service Order (or work request when used for MDUs/ROWs etc) and to achieve the outcomes required by Chorus
Install a single surface mounted service conduit following Chorus standards and practises.

Details:

- Multiple units of this code can be claimed.
- This code can be used to extend the communal network up the pole where a 50mm duct has been left at the base of the pole
- Consideration for all other service conduit methods must be taken and mounting surface must meet the criteria as defined by Chorus standards and specifications. Assumes installation in a tradesman like manner on external surfaces with P clips, or single-hole saddles, or double-hole saddles where required (e.g. up a pole).

Materials: (Consigned unless stated otherwise)

- Fixing materials (non-consigned)
- Ruggedised 1 way Microduct
- 20mm HDPE & bends (MD1a supply code)
- Marley 32mm 4m uPVC & bends (MD1b supply code)
- Grey 32mm 5m HDPE & bends (MD1c supply code)

CODE N-735: Extend Communal Pole Infrastructure (ABF)

Short Code:

Extend communal pole infrastructure (ABF)

Code Unit:

Per Service Order (or work request when used for MDUs/ROWs etc)

Types of Work included:

Where a 4-way or 7-way Microduct has been left at the base of a pole, and a customer fed from the multi-way duct requests service, the communal network will need to be extended up the pole.

Indicative task list:

Combination of any of the following tasks required to achieve the outcomes stipulated in the Service Order (or work request when used for MDUs/ROWs etc) and to achieve the outcomes required by Chorus
Extend Communal network as defined in the Chorus network standards and practises

Details:

- Only one instance of this code can be claimed on each service order (or work request when used for MDUs/ROWs etc), except where a 4-way and a 7-way are extended, where two instances of this code can be claimed.
- For multiple spans refer to code 705
- Where poles are identified as non Chorus owned the service company must check for authorisation before proceeding to complete extension.
- Includes transition from 12-way to 4-way or 7-way, but 12-way will not be extended up the pole. Where a 4-way and a 7-way are extended, two instances of this code can be claimed.
- Excludes relocation of existing services and/or clearance of obstructions (e.g. trees & vegetation) which should be referred to the asset owner.
- For Public Property, arborist costs to be submitted as a T&M quote and approved by Chorus in advance, with the Service Order (or work request when used for MDUs/ROWs etc) updated with RNC Code PR (Permission Required)
- For Private Property, End Customer is responsible for ensuring that aerial route is unobstructed. Where the trimming is likely to affect the install, the Service Order (or work request when used for MDUs/ROWs etc) updated with RNC Code CA (Customer to Advise.)

Materials (consigned unless stated otherwise):

- 32mm HDPE conduit (non-consigned)
- Wiring terminal box (non-consigned)

CODE N-736: Extend Communal Poletop Infrastructure (Aerial Fixed Fibre)

Short Code:

Extend communal pole infrastructure (Aerial Fixed Fibre)

Code Unit:

Per Service Order (or work request when used for MDUs/ROWs etc)

Types of Work included:

Installation of a pole-mounted OFDC designed and planned for provisioning by UFB Build program.

Indicative task list:

Combination of any of the following tasks required to achieve the outcomes stipulated in the Service Order (or work request when used for MDUs/ROWs etc) and to achieve the outcomes required by Chorus
Extend Communal network as defined in the Chorus network standards and practises

Details:

- Only one instance of this code can be claimed on each Service Order (or work request when used for MDUs/ROWs etc).
- Where poles are identified as non Chorus owned the service company must check for authorisation before proceeding to complete extension.
- Excludes relocation of existing services and/or clearance of obstructions (e.g. trees & vegetation) which should be referred to the asset owner.
- For Public Property, arborist costs to be submitted as a T&M quote and approved by Chorus in advance, with the Service Order (or work request when used for MDUs/ROWs etc) updated with RNC Code PR (Permission Required)
- For Private Property, End Customer is responsible for ensuring that aerial route is unobstructed. Where the trimming is likely to affect the install, the Service Order (or work request when used for MDUs/ROWs etc) updated with RNC Code CA (Customer to Advise.)

Materials (consigned unless stated otherwise):

- OFDC A4 FAT with Preconnectorised 12F
- OFDC B8 FAT with Preconnectorised 12F
- OFDC C12 FAT with Preconnectorised 12F

CODE N-F01: Faulty Network – No Excavation

Short Code:

Fault - no excavation

Code Unit:

Per Faulty Network Faulty Task

Outcome Description:

Repair an Outside Boundary Faulty Network Fault Task with the UFB communal network repaired where no excavation and reinstatement is required. This repair is to be done in parallel with the connection, prior to or on the same day as the installation is due.

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Liaison with the end customer.
- Network fault investigation and location.
- Faulty Network Task document completed and supplied, including evidence of the fault and the fix.
- Tasks as outlined in appendix G and in the NGA Task Classification document ND13060. The list below is a high level overview of each of the tasks:

Resolve faulty / broken / blocked legacy duct issues (Fixed Fibre), e.g. BDD systems.
Resolve blocked microduct issues to provide the connection in a manhole or pit environment.
Repair damaged FAT / Repair damaged GLC ABFAT
UFB network fibre - locate, repair feeder fibre issues.
UFB Splitter - replace splitter.
PON issue - Inside plant to investigate, repair, reset and correct PON connection.

- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Provisioning Tasks.
- No excavation or reinstatement required.
- UFB Augmentation – see the UFB Augmentation process.
- Inside Boundary civils.
- Faulty Network Occurrence where excavation and soft surface reinstatement is required – see the N-F02 Code.
- Faulty Network Occurrence where excavation and hard surface reinstatement is required – see the N-F03 Code.

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties (per lot). Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.

Indicative materials	
Consigned	Various if applicable e.g. ABF Materials, Trays, Terminal, Splitters, PONs

Charging guidance:

Each Faulty Network Repair Task as defined above is chargeable only once per install. For example:

If a Faulty Legacy Duct and a PON fault were found the claim would be:

2 x N-F01, providing appropriate documentation is supplied.

The maximum claim per install would be 6.

CODE N-F02: Faulty Network – Excavation with Soft Surface Reinstatement

Short Code:

Fault – soft surface

Code Unit:

Per Faulty Network Fault Task Resolved

Outcome Description:

Repair an Outside Boundary Faulty Network situation with the UFB network repaired where excavation and soft surface reinstatement is required.

Multiples of this code can be claimed where there are multiple faulty network occurrences within a single end to end work site, provided a separate dig and fix is required in each instance.

This repair is to be done in parallel with the connection, prior to or on the same day as the installation is due.

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Liaison with the end customer.
- Network fault investigation and location.
- Faulty Network Task document completed and supplied, including evidence of the fault and the fix.
- Tasks as outlined appendix G and in the NGA Task Classification document ND13060. The list below is an overview of each of the tasks:

Resolve faulty / broken / blocked legacy duct issues (Fixed Fibre) e.g. BDD systems
Resolve blocked microduct tube issues to provide connection
Repair damaged FAT / Repair damaged GLC ABFAT
Reposition lateral/drop off/duct tee or Install New Lateral/ drop off/duct tee
UFB network fibre - locate, repair feeder fibre issues

- Soft surface reinstatement for each Faulty Network occurrence.
  NOTE: There is no size limitation to excavations and associated soft surface reinstatement.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Provisioning Tasks.
- UFB Augmentation – see the UFB Augmentation process.
- Inside Boundary civils.
- Faulty Network Occurrence where no excavation is required – see the N-F01 Code.
- Faulty Network Occurrence where excavation and hard surface reinstatement is required – see the N-F03 Code.
- Excavations which do not result in a repair being completed at that dig site.

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties (per lot).

Indicative materials	
	Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	Various if applicable. e.g. ABF Materials, Trays, Terminal, Splitters, PONs

CODE N-F03: Faulty Network – Excavation with Hard Surface Reinstatement

Short Code:

Fault – hard surface

Code Unit:

Per Faulty Network Faulty Task Resolved.

Outcome Description:

Repair an Outside Boundary Faulty Network situation with the UFB network repaired where excavation and hard surface reinstatement is required.

Multiples of this code can be claimed where there are multiple faulty network occurrences within a single end to end work site, provided a separate dig and fix is required in each instance.

This repair is to be done in parallel with the connection, prior to or on the same day as the installation is due.

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Liaison with the end customer.
- Network fault investigation and location.
- Faulty Network Task document completed and supplied, including evidence of the fault and the fix.
- Tasks as outlined appendix G and in the NGA Task Classification document ND13060. The list below is an overview of each of the tasks:

Resolve faulty / broken / blocked legacy duct issues (Fixed Fibre) e.g. BDD systems
Resolve blocked microduct tube issues to provide connection
Repair damaged FAT / Repair damaged GLC ABFAT
Reposition lateral/drop off/duct tee or Install New Lateral/ drop off/duct tee
UFB network fibre - locate, repair feeder fibre issues

- Hard surface reinstatement for each Faulty Network occurrence.
  NOTE: There is no size limitation to excavations and associated hard surface reinstatement.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Provisioning Tasks.
- UFB Augmentation – see the UFB Augmentation process.
- Inside Boundary civils.
- Faulty Network Occurrence where no excavation is required – see the N-F01 Code.
- Faulty Network Occurrence where excavation and soft surface reinstatement is required – see the N-F02 Code.
- Excavations which do not result in a repair being completed at that dig site.

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties (per lot).

Indicative materials	
	Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	Various if applicable. e.g. ABF Materials, Trays, Terminal, Splitters, PONs

CODE N-A04 - Install Small Router or Switch into any Roadside Cabinet, Exchange Equipment Rack or Enclosed Cabinet, Including Mini ONT Hotel

Short code:

Install small router, switch, modem, NTU or equivalent

Platforms covered:

Equipment that takes up less than three equipment rack units (including but not limited to):

Management Support systems & Miscellaneous.

Code unit:

Per small (3RU or less) router or switch or Mini ONT Hotel

Types of work included/excluded:

Install one small, router or switch, or Mini ONT Hotel.

Connect to existing 230volt AC outlet or 50volt PSU.

In addition to the generic inclusions, the following inclusions will apply:

- Includes installing router/switch/ONT on equipment rack.
- Supply and install NTU shelf (if required) and velcro seismic restraint.
- Miscellaneous brackets and ironwork.
- Additional equipment rack cable management brackets as required.
- Connection to PSU and earth bar or 230volt outlet.

In addition to the generic exclusions, the following exclusions will apply:

- DC/DC inverter ([Service Company] shall provide a quote to Chorus on a time and materials basis).
- Provision of 50volt PSU or 230volt outlet ([Service Company] shall provide a quote to Chorus on a time and materials basis).
- Network equipment subracks or shelves.
- Larger switches or routers (greater than 3RU).

Details:

Indicative materials	
Consumable	Miscellaneous Patch cords, cables and connectors (per lot). Miscellaneous equipment subrack brackets and heat deflectors (per lot). Equipment rack top/PSU fuses or MCB circuit breakers and holders if not already in situ (per lot). NTU Shelf if required. Miscellaneous fasteners, lugs, cable ties, labels, isolators, tape and Velcro etc. (per lot).
Consigned	Switch, router, modem and hub (per lot). Mini ONT Hotel

Indicative materials	
	Cards (per lot).

CODE N-A16 – Fibre Transmission Connection Per Site – (Connectorised)

Short code:

Fibre transmission connection per site

Platforms covered:

Common

Code unit:

Per bearer per site

Types of work included/excluded:

Connect fibre transmission per site.

In addition, the following inclusions will apply:

- Includes up to 2 connectorised interconnections on the same bearer within the site. Any extra interconnections required for the same bearer within the site, the MP1 Code applies.
- Bearer to be inclusive of all site codes within the one Netsoc building structure code.
- Supply of the correct length connectorised patchcord or patchcord's (all connector types).
- Installation of SFP in terminal equipment – it is anticipating these will be installed during normal working hours as part of onsite work.
- FIP Testing of both connector and SFP face.
- Supply of "Pass" FIP trace's to Chorus on request – A MP3 code applies.
- Link commissioning with e.g. ALU as required.
- Requesting, provisioning and building the link. Requesting and signing off all MELO and TCO action including physical rearrangement.
- All relevant records updates including Netmap and labels on GPX Drawers.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Any link that includes fusion sections (Use the A17 Code).
- Supply and installation of attenuators and attenuator mounting panels (by variation).
- OTDR testing and recording.
- Installing patch cords for NGA provisioning (covered by NGA provisioning codes).
- If a separate after-hours visit is required to install SFP's as directed by Alu, then a A05 code can be claimed for each visit – NOTE: this is only applicable if the after-hours installation is mandated by Alu as part of the Permit To Work process.

Details:

- One code per bearer, per site (Building Structure) whether single or dual fibre working and irrespective of connector type

Indicative materials	
Consumable	Cleaning materials. Miscellaneous materials e.g. cable ties, velcro, labels and tape (per lot).
Consumable by Set Variation	Additional connectorised interconnections – see Code MP1

Indicative materials	
Consigned	Fibre Patchcord’s (Simplex/Duplex/LCA/LC-UTP/SC-UTP).

CODE N-A16A Install PON Splitter

Short code:

Install PON Splitter

Platforms covered:

Common

Code unit:

Per Splitter commissioned.

Scope:

This code covers the installation, testing and commissioning of a splitter (POS) to the point where NGA customers can be provisioned in ICMS. It is to be completed in association with an A16 (fully connectorised) or A17 (fusion or mixed) codes to establish an optical link to the allocated GPON port. Also includes installation of splitter mounting brackets as required, ref ND0545. Install the Splitter in cabinet, leave spare connectors in parking bay (if required), label and enter into Netmap and ICMS. Contact ALU to enable GPON port and confirm ONT stands up to 1st POS distribution port. Request ALU to build the equipment record in FAIMS and release the POS into service.

Types of work included/excluded:

In addition to the generic inclusions (where relevant) , the following inclusion will apply:

- Ordering of mounting brackets thru SRM.
- Ordering consigned FFP PON Splitter unit thru SRM.
- Birth Certificate and Recording of Splitter in Netmap.
- Recording of Splitter (cable) and GPON port pre-jumpers into ICMS using CPA process.
- Request ALU to turn on GPON port and test 1st POS distribution port with ONT to install splitter in FAIMS and release.
- Includes reduced ratio splitters where required, 1:32 1:16, 1:8, 1:4, 1:2.

In addition to the generic exclusions (where relevant), the following exclusion will apply:

- Connection of the splitter to the GPON NGLT port, including FIP testing (separate A16/A17 codes).
- Testing loss of each splitter port.

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. cable ties, splice protector, velcro, labels and tape (per lot).
Consigned	Splitter Mounting brackets

CODE N-A17 - Fibre Transmission Connection (PDH, SDH, DWDM, Ethernet) Per Site

Short code:

Fibre transmission connection per site or manhole (fusion spliced)

Platforms covered:

Common

Code unit:

Per bearer per site

Types of work included/excluded:

Connect fibre transmission per site or manhole.

In addition to the generic inclusions, the following inclusions will apply:

- Fusion splicing.
- Re-gridding.
- Pigtail installation and connection to equipment DF connection and direct equipment to equipment connections (including intermediate DFs).
- Removal of pigtails or jumpers from the troughing system that have been cut away to facilitate the new connection.
- All required network connectivity.
- Testing (BER/OTDR testing) and commissioning.
- Requesting, provisioning and building. Signing off all MELO and TCO action including physical rearrangement.
- Code A17 covers all fibre connections for a circuit (Bearer) between equipment and equipment and or external fibre cables within the physical site except where a connection is covered by a C13 or one of the C14 codes.
- Installation of SFP in terminal equipment.
- All relevant records updates.

In addition to the generic exclusions, the following exclusions will apply:

- CWDM ([Service Company] shall provide a quote to Chorus on a time and materials basis).
- Splitters and circulators (use the appropriate A Code).
- Bulk pre-provisioning and splicing of pigtails e.g. Riverstone Optical Ethernet equipment ([Service Company] shall provide a quote to Chorus on a time and materials basis).
- Joints in chambers (apply appropriate C codes).
- Fibre transmission connection RQs (use A17C).
- Excavation of buried manholes/pits and joints ([Service Company] shall provide a quote to Chorus on a time and materials basis).
- Installation of closure if required (see Code C14A).
- Supply and installation of attenuator drawers (use Code A11).
- Supply and installation of attenuators (use Code A17A).
- Supply and installation of an IOFDF Fibrenet drawer for a same row link (supply and installation of Fibrenet drawer by variation) (see Code MC14.1).
- Supply and installation of ruggedised pigtail-cables

Details:

- One code per bearer, per site (as per TLRD name) whether single or dual fibre working
- Where the fibre connection is achieved as part of the C13 or one of the C14 codes, an A17 code can only be claimed for the connection of Customer equipment and / or the connection at the exchange of pigtail cables.

Indicative materials	
Consumable	Fibre pigtail. Fibre jumpers (per lot). Miscellaneous materials e.g. cable ties, Splice Protector, velcro, labels and tape (per lot). Fibre Patch cord for connections within the same equipment row.
Consigned	N/A

CODE N-B06 - Install Road Crossing from an RBI or UFB Network

Short code:

Install road crossing for new connection

Platforms covered:

Access

Code unit:

Per road crossing (where RBI or UFB present on the opposite side of the road)

Types of work included/excluded:

Install road crossing from an existing RBI or UFB Network.

Assumes house wiring and ETP is already installed. Lead-in from ETP to road boundary is already installed.

In addition to the generic inclusions, the following inclusions will apply:

- Thrust under concrete or tarmac/seal, carry out any additional trenching required, and install 20mm pipe and Microduct/fibre lead-in.
- Backfilling and reinstatement of concrete and tarmac/seal if required.
- Comply with Local Authority code of practice.

In addition to the generic exclusions, the following exclusion will apply:

- Connection to network at boundary
- House wiring, ETP install, supply of CPE and provision of the service lead from ETP to boundary (see the Provisioning Codes).

Details:

Indicative materials	
Consumable	PVC duct and bend (per lot). Miscellaneous materials e.g. cable ties, labels, cable route markers and tape etc. (per lot).
Consigned	Microduct

CODE N-B07 - Supply and Supervise Installation of New Ducts and BDD Pits From One or More Units Within an Industrial/Commercial Building to the Property Boundary

Short code:

Install new ducts and pits

Platforms covered:

Access

Code unit:

Per site

Types of work included/excluded:

Supply and supervise installation of new ducts and BDD pits from one or more units within an industrial/commercial building to the property boundary.

In addition to the generic inclusions, the following inclusions will apply:

- Supply and supervise installation of up to 40 metres of new ducts and up to two BDD pits from an industrial/commercial building to the property boundary.
- Supply and connection of ducts and associated reinstatement work to multiple units within the same building (developer is responsible for arranging the installation of the duct, BDD pits and reinstatement).
- Co-ordinate work activities with Chorus and other service companies and third parties who may have coincident work in the same location.
- Comply with Local Authority code of practice.

In addition to the generic exclusions, the following exclusion will apply:

- Service lead, internal wiring, turning pits, manholes, cable installation, jointing and terminating cable (see the Provisioning Codes and Codes B and C).

Details:

Indicative materials	
Consumable	Duct PVC 50mm or 100mm (per lot). Bends and draw wire (per lot). Miscellaneous materials e.g. cable ties, labels, lubricant and tape etc. (per lot).
Consigned	N/A
Consumable by Set Variation	MB07 - Additional length over 40 metres will be charged at a fixed rate in 6 metre multiples of length using the set price variation.

CODE N-B08 – Install new manhole and lids in roadway

Short code:

Install new manhole and lids in roadway

Platforms covered:

Access

Code unit:

Per manhole and lids installed

Types of work included/excluded:

Install new roadway strength pre-cast manhole and lids.

In addition to the generic inclusions, the following inclusions will apply:

- Install new manhole and lids.
- Back filling and reinstatement.
- Provide duct access.
- Arrange for other utilities to relocate obstructions.
- Comply with Local Authority code of practice.

In addition to the generic exclusions, the following exclusion will apply:

- Cost of relocating obstructions and non-precast manhole ([Service Company] shall provide a quote to Chorus on a time and materials basis).

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. cable ties, labels and tape (per lot).
Consigned	N/A
Consumable by Set Variation	MB08.9 rock rate for manholes only
Consumable by Set Variation	Supply manhole and lids: Roadway strength pre cast manhole up to the largest size and cover set, sealant and dynabolts etc. (per lot). Use Code MB08.1 to MB08.8.

CODE N-B09 – Install new manhole and lids in footway or berm

Short code:

Install new manhole and lids in footway

Platforms covered:

Access

Code unit:

Per manhole and lids installed

Types of work included/excluded:

Install new pre-cast manhole and lids.

In addition to the generic inclusions, the following inclusions will apply:

- Install new manhole and lids.
- Back filling and reinstatement.
- Provide duct access.
- Arrange for other utilities to re locate obstructions.
- Comply with Local Authority code of practice.

In addition to the generic exclusions, the following exclusion will apply:

- Cost of relocating obstructions and non-pre cast manhole ([Service Company] shall provide a quote to Chorus on a time and materials basis).

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. cable ties, labels and tape (per lot).
Consigned	N/A
Consumable by Set Variation	MB08.9 rock rate for manholes only
Consumable by Set Variation	Supply manhole and lids: Precast manhole up to the largest size and cover set, sealant and dynabolts etc. (per lot). Use Code MB09.1 to MB09.8.

CODE N-B10 – Install small pit and lid less than dimensions of 1200mm

Short code:
Install small pit and lid

Platforms covered:
Access

Code unit:
Per small pit and lid installed

Types of work included/excluded:

Install new small pit and lid.

In addition to the generic inclusions, the following inclusions will apply:

- Install small pit and lid.
- Provide roadway strength lid if required.
- Back filling and reinstatement.
- Provide duct access.
- Arrange for other utilities to relocate obstructions.
- Comply with Local Authority code of practice.

In addition to the generic exclusions, the following exclusion will apply:

- Cost of relocating obstructions ([Service Company] shall provide a quote to Chorus on a time and materials basis).

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. cable ties, labels, duct repair sleeve, sealant and tape etc. (per lot).
Consumable by Set Variation	MB10.1Concrete pit and lid – 0.6 x 0.6 x 0.6 MB10.2 Aluminium pit and lid 0.6x 0.7x 0.6 MB10.3 Channell SGLB1730 MB10.4 Channell SGLB2436 MB10.5 Channell SGLB2448 MB10.6 Channell SGLB3048 MB08.9 rock rate for manholes only
Consigned	N/A

CODE N-B19 – Install Hand Hole

Short Code:

Install Hand Hole

Service Order (or work request when used for MDUs etc) Types Include:

BZ (LX) (LX)

Code Unit:

Per Hand Hole Installed

Types of Work included:

- Install hand hole and starter pipes as required at a transition point which is in hard seal and designed for multiple customers.

Indicative task list:

Combination of any of the following tasks required to achieve the outcomes stipulated in the Service Order (or work request when used for MDUss etc) and to achieve the outcomes required by Chorus
Install hand hole in accordance with Chorus standards and practises

Details:

- This Code is not to be used for XK (S9), XL or B7 (PV) Service Order (or work request when used for MDUss etc)s.
- A hand hole should only be installed in hard surfaces where that position is likely to be used for a subsequent connection, and the use of a hand hole will negate the need for a secondary excavation.
- This code excludes reinstatement (the relevant reinstatement code should apply) and the supply of the hand hole (which will be charged by the relevant consumables by set variation code)

Indicative materials	
Consumable	N/A
Consumable by Set Variation	MB19.1 Channell GLB912-T MB19.2 Channell GLB912C
Consigned	N/A

CODE N-B22 – I2 Traffic Management (berm)

Short code:
L2 traffic management – berm

Platforms covered:
All

Code unit:
Per day

Types of work included/excluded:

Supply L2 traffic management in berm location.

In addition to the generic inclusions, the following inclusions will apply:

- Setup and disestablish traffic management.
- Submission and approval of TMP.
- All health and safety requirements as imposed by the Local Authority.

In addition to the generic exclusions, the following exclusions will apply:

- L3 traffic management or New Zealand Transport Agency requirements (quote).
- Where RCA applies traffic management requirements for road to berm.

Details:

- N/A

CODE N-B23 – I2 Traffic Management (road)

Short code:
L2 traffic management – road

Platforms covered:
All

Code unit:
Per day

Types of work included/excluded:

Supply L2 traffic management in roadway location.

In addition to the generic inclusions, the following inclusions will apply:

- Setup and disestablish traffic management.
- Submission and approval of TMP.
- All health and safety requirements as imposed by the Local Authority.

In addition to the generic exclusions, the following exclusion will apply:

- L3 traffic management New Zealand Transport Agency requirement (quote).

Details:

- N/A

CODE N-C04 – Duct in Grass – Outside Boundary

Short code:
Duct in Grass – Outside Boundary

Platforms covered:
Access

Code unit:
Per single duct per metre

Types of work included/excluded:
Single duct in a Grass

Limited to less than 150 metres

In addition to the generic inclusions, the following inclusions will apply:

- Connection to manholes, turning pits and BDD pits as required.
- Trenching and back filling as required.
- Supply and install ducts as required.
- Civil reinstatement.

In addition to the generic exclusions, the following exclusions will apply:

- Trenches supplied by third parties (billed to the Customer through ICMS).
- Supply and install of duct for third party trench is quoted.

Details:

Indicative materials	
Consumable	Duct 50mm 6 Metre length. Duct 100mm 6 Metre length. Duct 50mm continuous (per metre). Duct 100mm continuous (per metre). Miscellaneous materials e.g. tape, ties and lubricant etc. (per lot).
Consigned	N/A
Consumable by Set Variation	Additional rate for rock (per linear metre). Use Code MC04.1. Supply and install additional duct in the same trench (per unit). Use Code MC04.2.

CODE N-C04a – Duct in Footpath (seal) – Outside Boundary

Short code:
Duct in Footpath – Outside Boundary (seal)

Platforms covered:
Access

Code unit:
Per single duct per metre

Types of work included/excluded:

Single duct in a Footpath

Limited to less than 150 metres

In addition to the generic inclusions, the following inclusions will apply:

- Connection to manholes, turning pits and BDD pits as required.
- Trenching and back filling as required.
- Supply and install ducts as required.
- Temporary Civil reinstatement.

In addition to the generic exclusions, the following exclusions will apply:

- Trenches supplied by third parties (billed to the Customer through ICMS).
- Supply and install of duct for third party trench is quoted.
- Final reinstatement as covered by G07 – G10 codes

Details:

Indicative materials	
Consumable	Duct 50mm 6 Metre length. Duct 100mm 6 Metre length. Duct 50mm continuous (per metre). Duct 100mm continuous (per metre). Miscellaneous materials e.g. tape, ties and lubricant etc. (per lot).
Consigned	N/A
Consumable by Set Variation	Additional rate for rock (per linear metre). Use Code MC04.1. Supply and install additional duct in the same trench (per unit). Use Code MC04.2.

CODE N-c04b – Duct in Roadway – Outside Boundary

Short code:
Duct in Roadway – Outside Boundary

Platforms covered:
Access

Code unit:
Per single duct per metre

Types of work included/excluded:

Single duct in a Roadway

Limited to less than 150 metres

In addition to the generic inclusions, the following inclusions will apply:

- Connection to manholes, turning pits and BDD pits as required.
- Trenching and back filling as required.
- Supply and install ducts as required.
- Temporary Civil reinstatement.

In addition to the generic exclusions, the following exclusions will apply:

- Trenches supplied by third parties (billed to the Customer through ICMS).
- Supply and install of duct for third party trench is quoted.
- Final reinstatement as covered by G07 – G10 codes.

Details:

Indicative materials	
Consumable	Duct 50mm 6 Metre length. Duct 100mm 6 Metre length. Duct 50mm continuous (per metre). Duct 100mm continuous (per metre). Miscellaneous materials e.g. tape, ties and lubricant etc. (per lot).
Consigned	N/A
Consumable by Set Variation	Additional rate for rock (per linear metre). Use Code MC04.1. Supply and install additional duct in the same trench (per unit). Use Code MC04.2.

CODE N-c04c – Duct – Thrusting – Outside Boundary

Short code:
Thrusting – Outside Boundary

Platforms covered:
Access

Code unit:
Per single duct per metre

Types of work included/excluded:

Single duct which requires thrusting

Limited to less than 150 metres

In addition to the generic inclusions, the following inclusions will apply:

- Connection to manholes, turning pits and BDD pits as required.
- Trenching, thrusting and back filling as required.
- Supply and install ducts and BDD pits as required.
- Civil reinstatement.

In addition to the generic exclusions, the following exclusions will apply:

- Trenches supplied by third parties (billed to the Customer through ICMS).
- Supply and install of duct for third party trench is quoted.
- Final reinstatement as covered by G07 – G10 codes.

Details:

Indicative materials	
Consumable	Duct 50mm 6 Metre length. Duct 100mm 6 Metre length. Duct 50mm continuous (per metre). Duct 100mm continuous (per metre). Miscellaneous materials e.g. tape, ties and lubricant etc. (per lot).
Consigned	N/A
Consumable by Set Variation	Additional rate for rock (per linear metre). Quoted. Supply and install additional duct. Use Code MC04C.1 Additional duct as per MC14.

CODE N-733 Install Surface Mounted Service Conduit

Short Code:

Install surface mounted service conduit

Code Unit:

Per single duct per metre

Types of Work included:

Install a single surface mounted service conduit on all surface types

Indicative task list:

Combination of any of the following tasks required to achieve the outcomes stipulated in the Service Order (or work request when used for MDUss etc) and to achieve the outcomes required by Chorus
Install a single surface mounted service conduit following Chorus standards and practises.

Details:

- Multiple units of this code can be claimed.
- This code can be used to extend the communal network up the pole where a 50mm duct has been left at the base of the pole
- Consideration for all other service conduit methods must be taken and mounting surface must meet the criteria as defined by Chorus standards and specifications. Assumes installation in a tradesman like manner on external surfaces with P clips, or single-hole saddles, or double-hole saddles where required (e.g. up a pole).
- This code should be used when surface mounting to anything other than a building i.e. fence, wall (other than building), pole, ledge etc.

Materials: (Consigned unless stated otherwise)

- Fixing materials (non-consigned)
- Ruggedised 1 way Microduct
- 20mm HDPE & bends (MD1a supply code)
- Marley 32mm 4m uPVC & bends (MD1b supply code)
- Grey 32mm 5m HDPE & bends (MD1c supply code)

CODE N-734 Connect Microduct and install Fibre ETP

Short Code:

Connect Microduct and install Fibre ETP

Code Unit:

Per Service Order (or work request when used for MDUs etc)

Types of Work included:

Connect Microduct to communal infrastructure at end of communal network and install Fibre ETP at end customer premise.

Indicative task list:

Combination of any of the following tasks required to achieve the outcomes stipulated in the Service Order (or work request when used for MDUss etc) and to achieve the outcomes required by Chorus
Join Microduct to communal infrastructure at end of communal network
Install Fibre ETP at the point of entry of the End Customer's premise

Details:

- Only one instance of this code can be claimed on each service order (or work request when used for MDUs etc).
- Cannot be used in conjunction with N-741.
- This Code is not to be used for XK (S9), XL or B7 (PV) Service Order (or work request when used for MDUs etc).
- Where a hand hole is required the appropriate code will be claimed.
- Includes installing a soft surface boundary peg where required

Materials (consigned, unless stated otherwise):

- 1 way Microduct joint closure
- Fibre ETP

CODE N-735 Extend Communal Pole Infrastructure (ABF)

Short Code:

Extend communal pole infrastructure (ABF)

Code Unit:

Per Service Order (or work request when used for MDUs etc)

Types of Work included:

Where a 4-way or 7-way Microduct has been left at the base of a pole, and a customer fed from the multi-way duct requests service, the communal network will need to be extended up the pole.

Indicative task list:

Combination of any of the following tasks required to achieve the outcomes stipulated in the Service Order (or work request when used for MDUs etc) and to achieve the outcomes required by Chorus
Extend Communal network as defined in the Chorus network standards and practises

Details:

- Only one instance of this code can be claimed on each service order (or work request when used for MDUs etc), except where a 4-way and a 7-way are extended, where two instances of this code can be claimed.
- For multiple spans refer to code 705
- Where poles are identified as non Chorus owned the service company must check for authorisation before proceeding to complete extension.
- Includes transition from 12-way to 4-way or 7-way, but 12-way will not be extended up the pole. Where a 4-way and a 7-way are extended, two instances of this code can be claimed.
- Excludes relocation of existing services and/or clearance of obstructions (e.g. trees & vegetation) which should be referred to the asset owner.
- For Public Property, arborist costs to be submitted as a T&M quote and approved by Chorus in advance, with the Service Order (or work request when used for MDUs etc) updated with RNC Code PR (Permission Required)
- For Private Property, End Customer is responsible for ensuring that aerial route is unobstructed. Where the trimming is likely to affect the install, the Service Order (or work request when used for MDUs etc) updated with RNC Code CA (Customer to Advise.)

Materials (consigned unless stated otherwise):

- 32mm HDPE conduit (non-consigned)
- Wiring terminal box (non-consigned)

CODE N-736 Extend Communal Pole Infrastructure (Aerial Fixed Fibre)

Short Code:

Extend communal pole infrastructure (Aerial Fixed Fibre)

Code Unit:

Per Service Order (or work request when used for MDUs/ROWs etc)

Types of Work included:

Installation of a pole-mounted OFDC designed and planned for provisioning by UFB Build program.

Indicative task list:

Combination of any of the following tasks required to achieve the outcomes stipulated in the Service Order (or work request when used for MDUs/ROWs etc) and to achieve the outcomes required by Chorus
Extend Communal network as defined in the Chorus network standards and practises

Details:

- Only one instance of this code can be claimed on each Service Order (or work request when used for MDUs/ROWs etc).
- Where poles are identified as non Chorus owned the service company must check for authorisation before proceeding to complete extension.
- Excludes relocation of existing services and/or clearance of obstructions (e.g. trees & vegetation) which should be referred to the asset owner.
- For Public Property, arborist costs to be submitted as a T&M quote and approved by Chorus in advance, with the Service Order (or work request when used for MDUs/ROWs etc) updated with RNC Code PR (Permission Required)
- For Private Property, End Customer is responsible for ensuring that aerial route is unobstructed. Where the trimming is likely to affect the install, the Service Order (or work request when used for MDUs/ROWs etc) updated with RNC Code CA (Customer to Advise.)

Materials (consigned unless stated otherwise):

- OFDC A4 FAT with Preconnectorised 12F
- OFDC B8 FAT with Preconnectorised 12F
- OFDC C12 FAT with Preconnectorised 12F

CODE N-703 Install Aerial Lead In (1 Span)

Short Code:

Install Aerial lead in (1-span).

Code Unit:

Per Service Order (or work request when used for MDUs etc)

Types of Work included:

Install a single span aerial lead in from existing pole to Premise Point of entry and connect to the communal infrastructure (which could be at the top or at the base of the pole) and install Fibre ETP.

Indicative task list:

Combination of any of the following tasks required to achieve the outcomes stipulated in the Service Order (or work request when used for MDUss etc) and to achieve the outcomes required by Chorus
Install aerial lead in from pole to FIBRE ETP position.
Connect lead in to communal infrastructure on existing pole to FIBRE ETP
Install Fibre ETP at the end of the aerial lead-in

Details:

- Only one instance of this code can be claimed on each service order (or work request when used for MDUss etc)
- In the event an install is >1 Span, claim the additional span rate code (Code 705 Span Rate for Aerial Provisioning)
- This Code covers the install of the span closest to the End-End Customer's premise. In the event an install is more than 1 span claim the additional span rate code (Code 705 Span Rate for Aerial Provisioning).
- Activity required to extend the Fixed Fibre service lead from the FAT to the End Customer's boundary is not included in this Code. Code 707 (Haul Fixed Fibre through Communal Network to Boundary) should be claimed for extension through the communal network.
- For Public Property, arborist costs to be submitted as a T&M quote and approved by Chorus in advance, with the Service Order (or work request when used for MDUs etc) updated with RNC Code PR (Permission Required)
- For Private Property, End Customer is responsible for ensuring that aerial route is unobstructed. Where the trimming is likely to affect the install, the Service Order (or work request when used for MDUs etc) updated with RNC Code CA (Customer to Advise).

Materials (consigned, unless stated otherwise):

- Aerial micro duct service lead
- Fixed Fibre service lead (non-connectorised)
- Fixed Fibre aerial express duplex LCA drop pigcable
- Aerial drop clamps
- Fibre ETP
- Conduit / duct from drop clamp to FIBRE ETP location (non-consigned)

- Flexi-duct (non-consigned)

CODE N-705 Span Rate For Aerial Provisioning (>1 Span)

Short Code:

Additional Span rate for aerial service lead

Code Unit:

Per Span

Types of Work included:

Additional Span rate for NGA installations (boundary to End-Customer's premise)

Indicative task list:

Combination of any of the following tasks required to achieve the outcomes stipulated in the Service Order (or work request when used for MDUss etc) and to achieve the outcomes required by Chorus
Extend UFB network across a pole span to connect to End Customer's premise

Details:

- This Code should be claimed in addition to Code 703.
- Where poles are required to be installed, the applicable code will apply.
- Reinstatement costs are excluded from this Code.
- For Public Property, arborist costs to be submitted as a T&M quote and approved by Chorus in advance, with the Service Order (or work request when used for MDUs etc) updated with RNC Code PR (Permission Required)
- For Private Property, End Customer is responsible for ensuring that aerial route is unobstructed. Where the trimming is likely to affect the install, the Service Order (or work request when used for MDUs etc) updated with RNC Code CA (Customer to Advise)

Materials (consigned, unless stated otherwise):

- Aerial Micro duct service lead
- Fixed Fibre service lead
- Aerial drop clamps

CODE N-706 Blow Fibre through 5mm tube From FFP or ABFAT to Fibre ETP

Short Code:

Blow fibre through 5mm tube From FFP or ABFAT to Fibre ETP/FAT

Code Unit:

Per Service Order (or work request when used for MDUs etc)

Types of Work included:

Blow Fibre from the FFP or ABFAT to the Fibre ETP/FAT (e.g. Budi or pedestal) and correctly manage the Fibres at each end.

Indicative task list:

Combination of any of the following tasks required to achieve the outcomes stipulated in the Service Order (or work request when used for MDUs etc) and to achieve the outcomes required by Chorus
Blow fibre (typically 2F or 12F) through 5mm microduct and/or 2F through 3.5mm aerial hybrid Nano-Duct from FFP and/or ABFAT to Fibre ETP/FAT (e.g. Budi or pedestal)
Route fibre onto tray in cabinet & manage customer fibre at the Fibre ETP/FAT (e.g. Budi or pedestal) using Chorus Fibre management standards
Complete cabinet tray data card (distance & address)
Test microduct according to the correct testing procedures

Details:

- Only one instance of this code can be claimed on each Service Order (or work request when used for MDUs etc).
- This code does not include splicing / connectorising.
- This code assumes that the route from the FFP or ABFAT to the Fibre ETP/FAT (e.g. Budi or pedestal) has been established.
- N-U706 can be applied if a 100L compressor is required (for Y1 and Y2 UFB build only)

Materials (consigned, unless stated otherwise):

- ABF Fibre (typically 2F or 12F)
- Sponge and Dart

CODE N-707 Install Fixed Fibre or Ruggedised Through Communal Network To Boundary

Short Code:

Install fixed Fibre or ruggedised through communal network

Code Unit:

Per Service Order (or per lead-in for MDU Properties)

Types of Work included:

Install fixed Fibre or ruggedised from FAT location to End Customer's boundary or pole

Indicative task list:

Combination of any of the following tasks required to achieve the outcomes stipulated in the Service Order (or work request when used for MDUs etc) and to achieve the outcomes required by Chorus
Install fixed Fibre or ruggedised from FAT location through communal network to End Customer's boundary drop off
Install a service lead from FAT to MDU boundary, and the fibre is installed into and/or laid up in the FAT

Details:

- Only one instance of this code can be claimed on each Service Order, or per ROW property (lead-in).
- For MDU deployment multiple codes can be claimed where the fibre count requires an additional service lead from FAT to building entry point (e.g. where an additional 12-fibre lead-in is required on top of another 12-fibre lead-in)
- Includes hauling ruggedised one-way microduct
- Includes up to 12F fixed fibre, any cables of larger size will attract the appropriate c12 code
- This Code allows for rodding / hauling (and all other relevant techniques) from FAT position to boundary.
- Should the outcome not be possible via conventional hauling techniques and the distance between the network access points greater than 100m T&M can be applied using the N-U707 code.
- Where removal of contaminated water and/or dirt from manhole is required, this should be quoted as T&M and approved by Chorus in advance.
- Where manual rodding / hauling is not practical, T&M should be quoted and approved by Chorus in advance.
- This code does not include any remediation works. Where remediation works are required a new work request will need to be established.

Materials (consigned, unless stated otherwise):

- Fixed Fibre service lead
- Ruggedised Microduct

CODE N-741 Install Service Lead From End of Communal Network to Fibre ETP Location

Short Code:

Install service lead from End of Communal Network to Fibre ETP location

Code Unit:

Per Service Order (or per lead-in for MDU Properties)

Types of Work included:

- Install service lead from End of Communal Network to Fibre ETP location and install Fibre ETP.
- Installation of a service lead from FAT to MDU Unit where the service lead is installed into ETP or Coiled in a secure location within the MDU Unit (Excludes ROWs as this is a provisioning task – extending service lead from property boundary to premise), and the fibre is installed into and/or laid up in the FAT

Indicative task list:

Combination of any of the following tasks required to achieve the outcomes stipulated in the Service Order (or work request when used for MDUss etc) and to achieve the outcomes required by Chorus
Install service lead from customer's boundary drop off, through conduit to Fibre ETP location
Install a service lead from FAT to MDU Unit where the service lead is installed into ETP or Coiled in a secure location within the MDU Unit, and the fibre is installed into and/or laid up in the FAT
Complete continuity between Communal network and premise service as required
Where all reasonable efforts have been made to identify a genuine blockage at other locations (e.g. mid-span) a new duct is to be laid & the appropriate codes charged.
Install Fibre ETP at the point of entry of the End Customer's premise

Details:

- Only one instance of this code can be claimed on each service order or per MDU unit (lead-in).
- This Code is not to be used for XK (S9), XL or B7 (PV) Service Order.
- This code can be claimed in parallel with Code 707 Install Fixed Fibre from Communal Network to Boundary
- Where no pipe up the pole currently exists a new 32mm HDPE pipe may be installed where required. No migration of existing service is required.
- Excludes relocation of existing services and/or clearance of obstructions (e.g. trees & vegetation) which should be referred to the asset owner.
- Where digging is required at either end to facilitate continuity, Duct In Soft Surface (Trenching) or Duct In Hard Surface is to apply. Includes blockages & restrictions at the Communal network transition point or the ETP location.

Materials (consigned, unless stated otherwise):

- Fixed Fibre service lead
- Microduct
- Hybrid nano-duct
- 1 way Microduct joint closure
- Express drop

- Conduit (non-consigned)
- Fibre ETP

CODE N-745 - Extra Rate for Hauling from End of Communal Network to Fibre ETP Location in Excess of 30 metres

Short Code:

Extra rate for Hauling From End of Communal Network to Fibre ETP Location in Excess of 30 metres

Code unit:

Per metre

Types of work included/excluded:

Additional rate to Haul Fixed Fibre or 1 Way Microduct Pigcable or Express Duplex LCA Drop Pigcable or 1 Way Hybrid Nano-Duct From End of Communal Network to Fibre ETP Location in Excess of 30 metres.

Indicative task list:

Combination of any of the following tasks required to achieve the outcomes stipulated in the Service Order (or work request when used for MDUs/ROWs etc) and to achieve the outcomes required by Chorus
Haul Fixed Fibre or Fixed Fibre Pigcable or 1 Way Microduct or Express Duplex LCA Drop Pigcable or 1 Way Hybrid Nano-Duct From End of Communal Network to Fibre ETP Location

Details

This code can only be claimed in addition to the 741 code

CODE N-c12 – Haul through existing empty ducts

Short code:

Haul fibre/microduct cable through existing empty ducts

Platforms covered:

Access and core

Code unit:

Per duct metre

Types of work included/excluded:

Haul fibre cable through existing empty ducts, including hauling 4-12 way Ribbonet (including 1-way Micronet)

Run D series fibre (per cable) in exchange from breakdown joint to OFDF.

In addition to the generic inclusions, the following inclusions will apply:

- Liaison with property owner.
- Cable hauling.
- Installation of location wire.
- Reinstatement.
- Internal fibre cable install.
- Hauled to the centre of the manhole or cable well.

In addition to the generic exclusions, the following exclusions will apply:

- Hauling 2F and 1-way (707 code to apply)
- Connection to existing network (see the appropriate B and C Codes).
- Repairing damaged or blocked ducts (charged by Set Variation).
- Cable trays in exchanges ([Service Company] shall provide a quote to Chorus on a time and materials basis).
- Hauling through direct buried subduct.

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties and lubricant etc. (per lot).
Quoted Items	Internal fibre cable supplied on material plus mark-up. Cable trays.
Consigned	Microduct.
Consumable by Set Variation	Repair of blocked or damaged ducts (per block or damage). Use Code MC12.

CODE N-c12a – Overhaul through ducts containing existing network

Short code:

Overhaul fibre/Microduct through ducts containing existing network

Platforms covered:

Access and core

Code unit:

Per duct metre

Types of work included/excluded:

Over-haul fibre cable through ducts containing existing cables, including hauling 4-12 way Ribbonet (including 1-way Micronet)

Run D series fibre (per cable) in exchange from breakdown joint to OFDF.

In addition to the generic inclusions, the following inclusions will apply:

- Liaison with property owner.
- Hauled to the centre of the manhole and or cable well.
- Cable hauling.
- Internal fibre cable install.
- Reinstatement

In addition to the generic exclusions, the following exclusions will apply:

- Hauling 2F and 1-way (707 code to apply)
- Connection to existing network (see the appropriate B and C Codes).
- Cable trays in exchanges ([Service Company] shall provide a quote to Chorus on a time and materials basis).
- Removing old cable ([Service Company] shall provide a quote to Chorus on a time and materials basis).
- Repair of Blocked or damaged ducts (charged by Set Variation).
- Hauling through direct buried subduct.

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties and lubricant etc. (per lot).
Quoted Items	Internal fibre cable supplied on material plus mark-up. Cable trays.
Consigned	Microduct.
Consumable by Set Variation	Repair of blocked or damaged ducts (per block or damage). Use Code MC12A.

CODE N-c12b – Haul Subduct through Existing Ducts

Short code:

Haul subduct through existing ducts

Platforms covered:

Access

Code unit:

Per duct metre

Types of work included/excluded:

Haul one subduct through existing ducts, including hauling 26 way Ribbonet (including 4 & 7 way Micronet)

In addition to the generic inclusions, the following inclusions will apply:

- Liaison with property owner.
- Supply and installation of subduct.

In addition to the generic exclusions, the following exclusions will apply:

- Removal of old cables ([Service Company] shall provide a quote to Chorus on a Time and Materials basis).
- Repair of blocked or damaged ducts (charged by Set Variation).

Details:

Indicative Materials	
Consumable	Miscellaneous materials e.g. tape, ties and lubricant etc. (per lot). Subduct (per metre).
Consigned	N/A
Consumable by Set Variation	Repair of blocked or damaged ducts (per block or damage). Use Code MC12B.

CODE N-c12c – Haul Extra Subduct through Existing Ducts

Short code:

Haul extra subduct through existing ducts

Platforms covered:

Access

Code unit:

Per duct metre, used with Code MC12C

Types of work included/excluded:

When hauling more than one subduct through existing ducts, including hauling 26 way Ribbonet (including 4, & 7 way Micronet)

In addition to the generic inclusions, the following inclusions will apply:

- Liaison with property owner.
- Supply and installation of subduct.

In addition to the generic exclusions, the following exclusions will apply:

- Removal of old cables ([Service Company] shall provide a quote to Chorus on a time and materials basis).
- Repair of blocked or damaged ducts (charged by Set Variation).

Details:

Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties and lubricant etc. (per lot). Subduct (per metre).
Consigned	N/A
Consumable by Set Variation	Repair of blocked or damaged ducts (per block or damage). Use MC12C.

CODE N-c12d – Fibre Loops in Manholes

Short code:

Fibre loops in manholes

Platforms covered:

Local access and core

Code unit:

Per fibre loop managed

Types of work included/excluded:

Manage fibre loop where hardware (e.g., bungee, tread plate and bracket etc) is required for a joint, future joint.

In addition to the generic inclusions, the following inclusions will apply:

- Civil activity as required to attach brackets to chamber wall.
- Tread plate where required.
- Installation and management of a fibre loop as per the design manual.

In addition to the generic exclusions, the following exclusion will apply:

- Moving existing cables to make room for the fibre management brackets.

Details:

Indicative materials	
Consumable	Direct fixing brackets (per lot). Dyna bolts (per lot). Galvanised washers (per lot). Bungee cord (per lot). Generator and pump (per hire). Sucker truck (per hire).
Consigned	N/A

CODE N-c12g – Blow Air Blown Fibre Cable through Microducts

Short code:

Blow Micro Cable fibre through Microduct

Platforms covered:

Access and core

Code unit:

Per duct metre

Types of work included/excluded:

Blow Micro Cable fibre through Microducts for any duct length.

In addition to the generic inclusions, the following inclusions will apply:

- Managing fibre loops onto management hardware where existing loop management hardware already exists.
- Liaison with property owner
- Blowing in cable.
- Internal fibre cable installation.
- Mechanical Fleeting at blow access pits and manholes typically at 1200m intervals.
- Blown to the centre of the manhole or cable well.

In addition to the generic exclusions, the following exclusions will apply:

- Connection to existing network (see the appropriate B and C Codes).
- Accessing ducts breaks or repairing damaged or blocked ducts
- Cable trays in exchanges (the Service Company shall provide a quote to Chorus on a time and materials basis).
- Installation of new fibre loop management hardware (see the C12H code)

Details:

Indicative materials	
Consumable	Miscellanous materials e.g. tape, ties etc (per lot)
Quoted items	Internal fibre cable supplied on material plus mark up Cable trays
Consigned	External blown fibre cable types
Consumable by Set Variation	

CODE N-c12h – Air Blown Fibre Loops in Manholes

Short code:

Air Blown Fibre loops in manholes

Platforms covered:

Local access and core

Code unit:

Per fibre loop managed

Types of work included/excluded:

Manage fibre loop where hardware (e.g., bungee, tread plate and bracket etc) is required for a joint, future joint.

In addition to the generic inclusions, the following inclusions will apply:

- Civil activity as required to attach brackets to chamber wall.
- Tread plate where required.
- Installation and management of a fibre loop as per the design manual.

In addition to the generic exclusions, the following exclusion will apply:

- Management of fibre loops where existing loop management hardware already exists – this is covered by the Air Blown Fibre Codes.
- Moving existing cables to make room for the fibre management brackets.

Details:

Indicative materials	
Consumable	Direct fixed brackets (per lot) Bolts (per lot) Galvanised washers (per lot) Bungee cord (per lot)
Consigned	N/A

CODE N-C12M – Joint Single-Way Microduct

Short code:

Joint single-way Microduct

Platforms covered:

Access/Transport

Code unit:

Per Duct Joint

Types of work included/excluded:

- Straight through joint single way Microduct.
- For buried joints, it is assumed that the method used to get the new duct to joint location (trenching or hauling (duct break)) should also include establishing and reinstatement of the joint hole.

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Preparation of the duct sheaths.
- Join all tubes.
- Installation of the enclosure.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Installation of joint markers.

Details:

Indicative materials	
Consumable	N/A
Consumables by Set Variation	N/A
Consigned	Connectors Mastic tape joint kit Enclosures

CODE N-c12i – Joint 2-4 way Microduct

Short code:

Joint 2-4 way Microduct

Platforms covered:

Access/Transport

Code unit:

Per Duct Joint

Types of work included/excluded:

Straight through joint 2-4 way Microduct.

For buried joints, it is assumed that the method used to get the new duct to joint location (trenching or hauling (duct break)) should also include establishing and reinstatement of the joint hole.

In addition to the generic inclusions, the following inclusions will apply:

- Preperation of the duct sheaths.
- Join all tubes.
- Installation of the enclosure.

In addition to the generic exclusions, the following exclusions will apply:

- Installation of joint markers.

Details:

Indicative materials	
Consumable	N/A
Consumables by Set Variation	N/A
Consigned	Connectors Mastic tape joint kit Enclosures

CODE N-c12j – Joint 5-7 way Microduct

Short code:

Joint 5-7 way Microduct

Platforms covered:

Access/Transport

Code unit:

Per Duct Joint

Types of work included/excluded:

Straight through joint 5-7 way Microduct.

For buried joints, it is assumed that the method used to get the new duct to joint location (trenching or hauling (duct break)) should also include establishing and reinstatement of the joint hole.

In addition to the generic inclusions, the following inclusions will apply:

- Preperation of the duct sheaths.
- Join all tubes.
- Installation of the enclosure.

In addition to the generic exclusions, the following exclusions will apply:

- Installation of joint markers.

Details:

Indicative materials	
Consumable	N/A
Consumables by Set Variation	N/A
Consigned	Connectors Mastic tape joint kit Enclosures

CODE N-C12L – Joint 8-12 Way Microduct

Short code:

Joint 8-12 way Microduct

Platforms covered:

Access/Transport

Code unit:

Per Duct Joint

Types of work included/excluded:

- Straight through joint 8-12 way Microduct.
- For buried joints, it is assumed that the method used to get the new duct to joint location (trenching or hauling (duct break)) should also include establishing and reinstatement of the joint hole.

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Preparation of the duct sheaths.
- Join all tubes.
- Installation of the enclosure.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Installation of joint markers.

Details:

Indicative materials	
Consumable	N/A
Consumables by Set Variation	N/A
Consigned	Connectors Mastic tape joint kit Enclosures

CODE N-c12k – Joint 13-26 way Microduct

Short code:

Joint 13-26 way Microduct

Platforms covered:

Access/Transport

Code unit:

Per Duct Joint

Types of work included/excluded:

Straight through joint 13-26 way Microduct. Includes jointing of central 12-mm tube where required.

For buried joints, it is assumed that the method used to get the new duct to joint location

(trenching or hauling (duct break)) should also include establishing and reinstatement of the joint hole.

In addition to the generic inclusions, the following inclusions will apply:

- Preperation of the duct sheaths.
- Join all tubes.
- Installation of the enclosure.

In addition to the generic exclusions, the following exclusions will apply:

- Installation of joint markers.

Details:

Indicative materials	
Consumable	N/A
Consumables by Set Variation	N/A
Consigned	Connectors Mastic tape joint kit Enclosures

CODE N-c14 – Joint Fibre Cables (1-12 splices)

Short code:

Joint fibre cables

Platforms covered:

Access

Code unit:

Per fibre optic joint from 1 to 12 splices per site

Types of work included/excluded:

Joint fibre cables.

In addition to the generic inclusions, the following inclusions will apply:

- Liaison with property owner.
- Connection to existing network.
- Pumping out manholes to access joint.
- Reinstatement.
- All jointing, terminating and testing.
- Splice trays.
- Includes excavation and exposure of joints and cable loops.

In addition to the generic exclusions, the following exclusions will apply:

- Connection to terminal electronics and internal building cabling (see the appropriate A Codes).
- Install closure (use appropriate C14A Code).
- Installation of new joint tub (see Code B08 or B09).

Details:

Indicative materials	
Consumable	Splice trays (per lot). Splice protectors (per lot). Miscellaneous materials e.g. tape, ties etc. (per lot).
Consumable by set variation	MC14.7. 24 fibre “D” series from cable well to MOFDF and into fibre net draw and SFOs (no splicing).
Consigned	N/A.

CODE N-c14.1 – Joint Fibre Cables (13-24 splices)

Short code:

Joint fibre cables

Platforms covered:

Access

Code unit:

Per fibre optic joint from 13 to 24 splices per site

Types of work included/excluded:

Joint fibre cables.

In addition to the generic inclusions, the following inclusions will apply:

- Liaison with property owner.
- Connection to existing network.
- Pumping out manholes to access joint.
- Reinstatement.
- All jointing, terminating and testing.
- Splice trays.
- Includes excavation and exposure of joints and cable loops.
- In addition to the generic exclusions, the following exclusions will apply:
- Connection to terminal electronics and internal building cabling (see the appropriate A Codes).
- Install closure (use appropriate C14A code).
- Installation of new joint tub (see Code B08 or B09).

Details:

Indicative materials	
Consumable	Splice trays (per lot). Splice protectors (per lot). Miscellaneous materials e.g. tape, ties etc. (per lot).
Consumable by set variation	MC14.7. 24 fibre “D” series from cable well to MOFDF and into fibre net draw and SFOs (no splicing).
Consigned	N/A.

CODE N-c14.2 – Joint Fibre Cables (25-48 splices)

Short code:

Joint fibre cables

Platforms covered:

Access

Code unit:

Per fibre optic joint from 25 to 48 splices per site

Types of work included/excluded:

Joint fibre cables.

In addition to the generic inclusions, the following inclusions will apply:

- Liaison with property owner.
- Connection to existing network.
- Pumping out manholes to access joint.
- Reinstatement.
- All jointing, terminating and testing.
- Splice trays.
- Includes excavation and exposure of joints and cable loops.

In addition to the generic exclusions, the following exclusions will apply:

- Connection to terminal electronics and internal building cabling (see the appropriate A Codes).
- Install closure (Use appropriate C14A code).
- Installation of new joint tub (see Code B08 or B09).

Details:

Indicative materials	
Consumable	Splice trays (per lot). Splice protectors (per lot). Miscellaneous materials e.g. tape, ties etc. (per lot).
Consumable by set variation	MC14.7. 24 fibre “D” series from cable well to MOFDF and into fibre net draw and SFOs (no splicing).
Consigned	N/A.

CODE N-c14.3 – Joint Fibre Cables (49-96 splices)

Short code:

Joint fibre cables

Platforms covered:

Access

Code unit:

Per fibre optic joint from 49 to 96 splices per site

Types of work included/excluded:

Joint fibre cables.

In addition to the generic inclusions, the following inclusions will apply:

- Liaison with property owner.
- Connection to existing network.
- Pumping out manholes to access joint.
- Reinstatement.
- All jointing, terminating and testing.
- Splice trays.
- Includes excavation and exposure of joints and cable loops.

In addition to the generic exclusions, the following exclusions will apply:

- Connection to terminal electronics and internal building cabling (see the appropriate A Codes).
- Install closure (use appropriate C14A code).
- Installation of new joint tub (see Code B08 or B09).

Details:

Indicative materials	
Consumable	Splice trays (per lot). Splice protectors (per lot). Miscellaneous materials e.g. tape, ties etc. (per lot).
Consumable by set variation	MC14.7. 24 fibre “D” series from cable well to MOFDF and into fibre net draw and SFOs (no splicing).
Consigned	N/A.

CODE N-c14.4 – Joint Fibre Cables (97-144 splices)

Short code:

Joint fibre cables

Platforms covered:

Access

Code unit:

Per fibre optic joint from 97 to 144 splices per site

Types of work included/excluded:

Joint fibre cables.

In addition to the generic inclusions, the following inclusions will apply:

- Liaison with property owner.
- Connection to existing network.
- Pumping out manholes to access joint.
- Reinstatement.
- All jointing, terminating and testing.
- Splice trays.
- Includes excavation and exposure of joints and cable loops.

In addition to the generic exclusions, the following exclusions will apply:

- Connection to terminal electronics and internal building cabling (see the appropriate A Codes).
- Install closure (use appropriate C14A code).
- Installation of new joint tub (see Code B08 or B09).

Details:

Indicative materials	
Consumable	Splice trays (per lot). Splice protectors (per lot). Miscellaneous materials e.g. tape, ties etc. (per lot).
Consumable by set variation	MC14.7. 24 fibre “D” series from cable well to MOFDF and into fibre net draw and SFOs (no splicing).
Consigned	N/A.

CODE N-c14.5 – Joint Fibre Cables (145-216 splices)

Short code:

Joint fibre cables

Platforms covered:

Access

Code unit:

Per fibre optic joint from 145 to 216 splices per site

Types of work included/excluded:

Joint fibre cables.

In addition to the generic inclusions, the following inclusions will apply:

- Liaison with property owner.
- Connection to existing network.
- Pumping out manholes to access joint.
- Reinstatement.
- All jointing, terminating and testing.
- Splice trays.
- Includes excavation and exposure of joints and cable loops.

In addition to the generic exclusions, the following exclusions will apply:

- Connection to terminal electronics and internal building cabling (see the appropriate A Codes).
- Install closure (use appropriate C14A code).
- Installation of new joint tub (see Code B08 or B09).

Details:

Indicative materials	
Consumable	Splice trays (per lot). Splice protectors (per lot). Miscellaneous materials e.g. tape, ties etc. (per lot).
Consumable by set variation	MC14.7. 24 fibre “D” series from cable well to MOFDF and into fibre net draw and SFOs (no splicing).
Consigned	N/A.

CODE N-c14.6 – Joint Fibre Cables (217-312 splices)

Short code:

Joint fibre cables

Platforms covered:

Access

Code unit:

Per fibre optic joint from 217 to 312 splices per site

Types of work included/excluded:

Joint fibre cables.

In addition to the generic inclusions, the following inclusions will apply:

- Liaison with property owner.
- Connection to existing network.
- Pumping out manholes to access joint.
- Reinstatement.
- All jointing, terminating and testing.
- Splice trays.
- Includes excavation and exposure of joints and cable loops.

In addition to the generic exclusions, the following exclusions will apply:

- Connection to terminal electronics and internal building cabling (see the appropriate A Codes).
- Install closure (use appropriate C14A code).
- Installation of new joint tub (see Code B08 or B09).

Details:

Indicative materials	
Consumable	Splice trays (per lot). Splice protectors (per lot). OFDF drawers containing SFOs (per lot). Miscellaneous materials e.g. tape, ties etc. (per lot).
Consumable by set variation	MC14.7. 24 fibre “D” series from cable well to MOFDF and into fibre net draw and SFOs (no splicing).
Consigned	N/A.

CODE N-c14a – Install a Fibre Closure

Short code:

Install fibre closure

Platforms covered:

Access

Code unit:

Per fibre optic closure

Types of work included/excluded:

Install fibre optic closure.

In addition to the generic inclusions, the following inclusions will apply:

- Install of fibre optic closure.
- Supply and installation of wall bracket.
- Supply and installation of tread plate where required.

In addition to the generic exclusions, the following exclusions will apply:

- All jointing, terminating and fitting of closure.
- Splice trays/loose tube storage trays-baskets.
- FOSC-B2 In Line closure kit.
- Split end cap closures.

These exclusions are charged at the appropriate A and B Codes.

Details:

Indicative materials	
Consumable	Wall bracket (per lot). Miscellaneous materials e.g. tape, ties etc. (per lot).
Consigned	N/A
Consumable by set variation	Closures – typically Fist/FOSC/Gel (MC14A Codes)

CODE N-RO1 – Inside Boundary Mobilisation (Civils)

Short Code:
Inside Boundary Mobilisation of the civil works crew

Platforms covered:
NGA

Code unit:
Per civil day

Types of work included/excluded:

- This code covers the movement & set-up of civil crews and their vehicles & equipment (being mechanical plant & machinery e.g. a concrete cutter would not apply, but a grundomat does apply) to and from the job-site as necessarily required to perform the relevant Services
- This code can only be claimed in addition to a civil code (listed below) where there is a requirement for the civil equipment to be used undertake the base task
- This code cannot be claimed where both inside boundary and outside boundary civil codes are being claimed for similar works, and the distance of the outside boundary civil works exceed the distance of the inside boundary civil works
    - e.g. where the outside boundary trenching is 20 metres and the inside boundary trenching is 10 metres then this code cannot be claimed
    - e.g. where the outside boundary trenching is 10 metres and the inside boundary trenching is 20 metres then this code can be claimed

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Includes all ancillary travel & vehicle fit-out costs such as parking & equipment
- Includes Labour time for the civil crew being transported

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Truck rolls for Network/Cable route drafting time

Details: Indicative materials	
Consumable	Nil
Consigned	Nil
Consumable by set variation	Nil

Typically only one instance of this code can be claimed per job, but multiple instances of this code can be claimed where

- the civil works are required to be undertaken over more than one work-day (e.g. Trenching on day-1 & Reinstatement on day-2). Note that this would not apply where (for example) the civil works are undertaken by the same crew over two half-days.

This code can only be claimed in conjunction with the following codes:

- D01 – D03 (Trenching – base rate)
- E01 (Drilling & Thrusting – base rate)

CODES N-D01, N-D02, N-D03- Inside Boundary Trenching – Base Rate

Short Code:
Inside Boundary Trenching – Base Rate

Platforms covered:
NGA

Code unit:
Per trench metre

Code	Description
N-D01	Trenching
N-D02	Slot Trenching – Soft Surface
N-D03	Slot Trenching – Hard Surface

Description:

- Trenching codes cover both conventional and air blown duct types
- Trenching is the open excavation of ground for the purpose of laying duct / fibre / cable. All trenching is carried out in accordance with appropriate design guidelines, technical standards and codes of practice.
- Type of trenching equipment or widths of trenches aren't specified as the expectation is that the most effective methods and minimum widths will be used to accommodate the network component that is being installed.
- Standard trench is assumed to be in grass or gravel and the soil condition is easy i.e. earth, clay, sand or pumice (i.e. not loose or hard rock although includes pumice in this case).
- The standard trench includes the handling & installation of Microduct or direct buried cable laid in that trench (materials are charged separately under Consumable by Set Variation).
- Note that no additional extra/over rate is chargeable for laying additional ducts as the short runs inside the boundary do not warrant the billing of additional labour time. Where the duct is consumable, the additional duct materials are chargeable under Consumables by set Variation which includes handling time.
- Any conditions that vary from the standard are provided as extra/over rates.
- Where slot trenching in a hard surface the Slot Trenching – Hard Surface code D03 should be claimed, but no Extra/Over rate can be claimed for the surface type.

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Direct labour i.e. civil crews
- Any additional service identification including activity necessary to protect services and tree roots.
- Any pot holing / piloting to identify services
- Laying hazard tape, installing location wire and draw tape if required
- Bedding material / soft backfill for utility service protection i.e. sand
- Entry holes into external building walls and existing or new pits / chambers and potholing in grass only. Use Surface extra/over activities and applicable reinstatement activities for other surface types.
- Backfilling using excavated material and compaction to local council standards / specifications
- Disposal of any excess excavated material
- Any labelling or As Built records requirements
- Top soil and grass reinstatement

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Mobilisation of the civil works crew which is to be charged under the Mobilisation of the civil works crew code R01
- Surface reinstatement (other than grass)
- Arborist costs
- The use of sucker trucks

CODE N-E01 – Inside Boundary Drilling & Thrusting – Base Rate

Short Code:
Inside Boundary Drilling & Thrusting – Base rate

Platforms covered:
NGA

Code unit:
Per drill/thrust metre

Code	Description
N-E01	32 & 63 mm continuous duct & Microduct

Description:

- Act of creating a drill hole to pull through duct / cable / Microduct / Microduct.
- Drilling or thrusting is the creation of an underground cavity for the purpose of pulling through and installing duct / fibre / cable (i.e. network).
- All drilling and thrusting is carried out in accordance with appropriate design guidelines, technical standards and codes of practice and complies with all council and utility requirements including consents.
- Type of drilling equipment or depths of entry and exit holes aren't specified as the expectation is that the most effective methods and minimum depths will be used to accommodate the network component that is being installed
- Drilling and thrusting depth will be consistent with depths of other infrastructure being attached and would typically be 600mm, depending on council requirements
- Where other infrastructure needs to be connected and the depth exceeds this range approval will be required
- Note that no additional extra/over rate is chargeable for laying additional ducts as the short runs inside the boundary do not warrant the billing of additional labour time. Where the duct is consumable, the additional duct is chargeable under Consumables by set Variation which includes handling time.

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Direct labour
- Identify all services and any activity necessary to protect services and tree roots
- Creation of pot holes to locate services. Where possible potholes to locate services should be aligned with lateral connections
- Excavation and removal / disposal of material
- Pulling / installing (up to three) duct Microduct or cable
- Pulling / installing location wire and draw tape if required
- Supply, installation and joining of duct in most efficient manner (i.e. electrofusion couplers preferred)
- Entry holes into external building walls and existing or new pits / chambers and potholing in grass only. Use Surface extra/over activities and applicable reinstatement activities for other surface types.
- Includes the cutting of surface and removal of material and removal of paving surfaces and backfill for specifically the surface of entry hole, exit hole and any required pot holes.
- Any testing to ensure integrity of installation
- Any labelling or records requirements
- Proving continuity of conventional duct, leaving a hauling ribbon in place

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Arborist costs
- Reinstatement

CODES N-G01- N-G10 – Inside and Outside Boundary Reinstatement & Extra/Over

Short Code:
Inside and Outside Boundary Reinstatement (ISB/OSB)

Platforms covered:
NGA

Code	ISB/OSB	Code Unit	Description
N-G01	ISB	Per metre squared	Seal & Chip Seal (footpath (standard up to 40mm), residential driveway (up to 60mm) & commercial driveways and roadways (60mm and over))
N-G02	ISB	Per metre squared	Concrete (footpath (standard up to 100mm), residential driveway (standard up to 150mm), commercial driveway (standard up to 200mm) & road (standard 200mm and over))
N-G03	ISB	Per metre squared	Concrete aggregate (up to 100mm), Cobbles & Special
N-G04	ISB/OSB	Per metre squared	Gravel
N-G05	ISB/OSB	Per lineal metre	Rock (incl Loose Rock & Hard Rock) extra/over for trenching, drilling & thrusting
N-G06	ISB/OSB	Per metre squared	Gardens & Decorative Areas (bark, pebbles and other decorative surface covering)
N-G07	OSB	Per metre squared	Outside Boundary Reinstatement & Extra/Over - Seal & Chip Seal (Up to 60mm thickness)
N-G08	OSB	Per metre squared	Outside Boundary Reinstatement & Extra/Over - Concrete (Up to 150mm thickness)
N-G09	OSB	Per metre squared	Outside Boundary Reinstatement & Extra/Over - Concrete (Over 150mm thickness)
N-G10	OSB	Per metre squared	Outside Boundary Reinstatement & Extra/Over - Concrete Aggregate (Up to 150mm thickness)

Description:

Note: For the avoidance of doubt - Inside Boundary and Outside Boundary application of the G-codes is determined in the second column (table above).

- Reinstating surface of trench, pot hole and entry & exit hole for drill. Depth is as required by the RCA compacted and tested to achieve relevant standards
- Returns surface areas to original condition and standard (or as close as possible) in accordance with Chorus specifications, appropriate design guidelines, technical standards and codes of practice and complies with all council and utility requirements including consents.
- It would normally require reinstating the same material i.e. grass replaced with grass, seal replaced with seal etc.
- Includes the surface cutting requirements and the removal of the material and importing backfill and compaction to the standards required by the NZUAG
- Seal is Asphalt or some other soft mix product

- Gravel is a road or pavement surface composed of unconsolidated rock fragments that have a general particle size range
- Loose rock is where any consistent (over 50% of trench) particle size exceeds 75mm. This aligns to the NZUAG code where also any rock size over 75mm is not to be re-used in general backfill. Includes pumice. Hard rock is any solid rock that is either continuous or occurs in close to continuous frequencies (requires rock breaker or rock saw)
- Gardens & Decorative Areas means bark, pebbles and other decorative surface covering where the landscaping materials exceed 5-continuous metres (but does not apply to the first 5-metres)
- The N-G07 to N-G10 codes will apply for outside boundary work to cover any extra reinstatement required by the RCA which would not be covered by the reinstatement component of the outside boundary C04 Codes, i.e. the G07 to G10 codes (as applicable) may be used to cover the balance of full panel reinstatement over and above the trench reinstatement (if required).

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Cost of material (e.g. concrete)
- Boxing material installation and removal
- Line marking (if any)
- Joint sealing (where applicable)
- Pining concrete
- Creating trench shoulders and associated surface cutting (including second cut if required)

In addition to the generic exclusions (where relevant), the following exclusions will apply:

Any special dyes required in concrete or seal

CODE N-MC21 - Inside Boundary Locate, Dig & Repair Blocked or Damaged Duct

Short Code:
Inside Boundary Locate, Dig & Repair Blocked or Damaged Duct

Platforms covered:
NGA

Code unit:
Per repair

Description:

- Act of locating, digging & repairing blocked or damaged duct.
- The appropriate reinstatement code should be charged in addition to this code
- Maximum of 2 duct breaks per Service Order or Work Order, unless approved by Chorus

In addition to the generic inclusions (where relevant), the following inclusions will apply:

-

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Clearing contaminated manholes

CODES N-757 - N-757D Network/Cable Route Plan

Short Code:
Network/Cable route plans

Platforms covered:
Common

Code	Description	Code Unit
N-757	Non MDU	Per NGA iTools work request or Non-standard Business SDU
N-757A	Class 1 MDU/ROW 2-5	Per MDU/ROW
N-757B	Class 2 MDU/ROW 6-12	Per MDU/ROW
N-757C	Class 3 MDU/ROW 13-48	Per MDU/ROW
N-757D	Class 4 MDU/ROW 49+	Per MDU/ROW

Types of work included/excluded:

- All Network/Cable route plan drafting, including communal network or boundary to ETP, and ETP to ONT location
- Scope documentation & quote

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Site visits & Liaison with property owner during the consent stage (pre-build).

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- SDU's, including Standard Business SDU
- Any structural integrity engineering assessments, incl. X-Rays or other specialist reporting required (on an ad hoc basis or as a result of any proposed wall or floor penetrations or fire topping activities) for investigating or certifying the integrity of building (which will be the Customers responsibility), including post-installation compliance such as building certifications / WOF

Details:

- Only one instance of this code can be claimed per NGA iTools work request or Non-standard Business SDU.
- Where the property owner requires more than one Network/Cable route plan and the original Network/Cable route plan was compliant with Chorus requirements, additional instances of this code can be claimed with the prior approval of Chorus, which will be the property owners responsibility.
- The Non MDU code covers all non-MDU fibre build works including (but not limited to) Non-standard business SDU, Non-Building Access Points (NBAPs), Last Step Fibre Build (LSFB) and NGA over Non UFB (NONU).

Indicative materials	
Consumable	Nil
Consigned	Nil
Consumable by set variation	Nil

CODES N-758 - N-758D Mobilisation – MDU/ROW

Short Code:
Mobilisation of Technicians – MDU/ROW

Platforms covered:
NGA

Code	Description	Code Unit
N-758	Non MDU – Fibre Access	Per Job
N-758a	Class 1 MDU/ROW 2-5	Per MDU/ROW
N-758b	Class 2 MDU/ROW 6-12	Per MDU/ROW
N-758c	Class 3 MDU/ROW 13-48	Per MDU/ROW
N-758d	Class 4 MDU/ROW 49+	Per EUP

Types of work included/excluded:

- This code covers the movement of technicians and their vehicles & equipment to and from the job-site as necessarily required to perform the relevant Services
- This code does not cover travel for the Fibre Provisioning codes or Truck rolls for civil activities

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Includes all ancillary travel & vehicle fit-out costs such as parking & equipment, including trailers
- Includes Labour time for the technicians being transported
- Can be used in conjunction with travel codes (N-TRA-Z2 -Z3) where applicable; noting Service Class 3 & 4 are excluded.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Van / Truck rolls for Network/Cable route drafting time
- Truck rolls for civil activities
- Cannot be used in conjunction with any fixed price build codes (MDU/ROW)

Details:

- Only one instance of this code can be claimed per NGA iTools work request or Non-standard Business SDU, with the exception of the Class 4 MDU/ROW which can be claimed in multiples

CODE N-la14a – Install Building Cabling and/or Microduct

Short Code:
Install Building Network

Platforms covered:
NGA

Code unit:
Per sheath metre

Types of work included/excluded:

- Installation of Lead-in network from building entry to terminal enclosure (building entry to I-FFP or Internal FAT).
- This code applies where hauling has stopped.
- Install Distribution network (I-FFP into last Internal FAT, includes laying up).
- This code does not cover the first 5-metres which is covered by the applicable lead-in code

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Liaison with property owner.
- Running/securing of Cable/Microduct on existing network support infrastructure.
- Installation of top floor cable management where required.
- Installation of cable/Microduct breakout units and riser cable protection covers where required.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Travel & Mobilisation, which should be claimed under the relevant Mobilisation – MDU code
- Supply of approved cable/Microduct. Use appropriate MIA14.x material Code or SRM supplied product.
- Installation of I-FFP or Internal FAT. Use appropriate IC14A.x Code.
- Installation of service leads from FAT to MDU unit, N-741 code to apply
- Installation of Network support infrastructure.
- Hauling fixed Fibre or blowing customer fibre from communal network to I-FFP
- Sealing of the duct (using T-Dux) once network is installed, as required (which will be charged by set variation)
- 3M Re-sealable fire stopping kits.
- Sealing of the duct (using T-Dux) once network is installed, as required (which will be charged by set variation)
- Any specialist x-ray machines or other specialist equipment or reporting required on an ad hoc basis for investigating the integrity of the masonry wall or floor (which will be the Customers responsibility), including post-installation compliance
- Any penetration through a solid masonry wall or floor using a core drill.
- Fire stopping of a wall or floor penetration up to 300mm floor/wall.

Details: Indicative materials	
Consumable	Miscellaneous materials e.g. tape, ties, velcro etc. (per lot). T-Dux (where required) Sealing compound etc.
Consigned	Tyco Electronics HDU cables.

	Microduct.
Consumable by set variation	Verticasa riser cable: MC2 Code for 144 Fibres. T-Dux (where required): MT1 code for T-dux 50mm MT2 code for T-dux 100mm

CODES N-Ia14b.1- N-Ia14b.7 – Install Cable/Microduct Support System

Short Code:
Install Cable/Microduct Support system

Platforms covered:
NGA

Code	Description	Code Unit
N-Ia14b.1	Standard approved capping	Per lineal metre
N-Ia14b.2	Architrave capping	Per lineal metre
N-Ia14b.3	Catenary wire	Per lineal metre
N-Ia14b.4	Cable Tray	Per lineal metre
N-Ia14b.5	uPVC Conduit (20mm/32mm)	Per lineal metre
N-Ia14b.6	Internal Access Panel – Small (up to but not including 300mm x 300mm))	Per Access panel
N-Ia14b.7	Internal Access Panel – Large (300mm x 300mm and larger)	Per Access panel

Types of work included/excluded:

- Install approved support system into building ceiling space, riser, or communal space.
- Where multiple support systems are installed, then the per metre code for each support system type should be claimed
- Inclusive of support systems for all lead-in, distribution and drop networks.

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Liaison with property owner.
- Installation to conform to the AS/NZS3084 & 3000 standard where relevant, and all industry best practice.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Travel & Mobilisation, which should be claimed under the relevant Mobilisation – MDU code
- Supply and installation of cable and/or Microduct product.
- Installation of I-FFP or Internal FAT. Use appropriate IC14A.x Code.
- Reinstatement of fire stopping.
- Supply and install of specialist support systems (e.g. specialist capping to match historic building brick work or ceiling mounted cable trays) which will be Customers responsibility

Details: Indicative materials	
Consumable	Standard Capping Architrave capping Catenary wire Cable Tray uPVC Conduit Associated mounting materials e.g. Anchors and tensioners. Cable tray brackets etc. On-wall capping corners, joiners, bends, Conduit joiners, saddles, bends, tees, flexi tube etc. Standard approved capping Internal Hatches
Consigned	
Consumable by set variation	

CODES N-Ic14a.1 – N-Ic14a.2 – Install Fibre Access Terminal

Short Code:
Install FAT

Platforms covered:
NGA

Code unit:
Per FAT

Code	Description	FAT Type (Indicative)
N-Ic14a.1	Small / Medium MDU	OFDC-A4/B8/C12, BUDI-S/BUDI-2S, BUDI-M box Includes IFDB ROW terminal
N-Ic14a.2	Large MDU (48+ DP)	GPX I-FFP Flash-9

Types of work included/excluded:

- Install Fibre optic distribution closure.
- Installation of Fibre access terminal.
- Includes the first 5-metres within the floor level of Building Cabling and/or Microduct, but excludes any installation of cable trays
- This code does not include aerial FAT installation which will be covered via the N-736 code.
- These codes include the installation of a pedestal if required. Where a pedestal is installed, the relevant consumables by set variation code will apply.

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Liaison with property owner.
- Installation of Fibre access terminal and all relevant hardware.
- All jointing, terminating and testing of lead-in cable to connectorised tails where required.
- Laying unused lead-in Fibres in storage trays.
- Provision of additional splice tray sub assembly.

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Travel & Mobilisation, which should be claimed under the relevant Mobilisation – MDU code
- Distribution testing & birth certificates
- Connection to existing network.
- Installation of Service Lead
- Installation of lead-in Fibre. (typically 12 Fibre)
- Installation of lead-in duct. Use appropriate IC04*x* Code.
- Installation of Pits. Use the N-B10 code.
- Any penetration through a solid masonry wall or floor using a core drill.
- Fire stopping of a wall or floor penetration up to 300mm floor/wall.

Details: Indicative materials	
Consumable	Miscellaneous materials e.g. splice protector's tape, ties, masonry anchors etc. (per lot).

Consigned	OFDC-A4/B8/C12 OR BUDI-1S/BUDI-2S. Associated hardware for LCA duplex connections. Includes IFDB ROW terminal. BUDI-M box. PON upgrade kit. Associated BUDI-M seals. GPX I-FFP – MDU 12RU wall mounted cabinet. Pigtail pack LCA 1Fx1.5mx12 B8 RAT Flash-9
Consumable by set variation	Installation of lead-in duct. Use appropriate IC04*x* Code.

CODE N-760 – Standard Lateral

Short Code:
Standard lateral

Platforms covered:
NGA

Code unit:
Per lateral

Types of work included/excluded:

- Installation of up to two tubes in a standard lateral & continuity of the communal network
- Includes breaking into an existing lateral to install a supplementary lateral
- Additional tubes to be charged by set variation using the relevant code
- Where additional tube(s) have been left in hard surface, a hand hole will be installed and the code B19 is to apply
- Where additional tubes have been left in soft surfaces, a location peg(s) to be installed
- The N-760 code cannot be claimed during MDU build where new communal network duct or microduct is to be installed and laterals installed – the relevant jointing codes and civil codes are to be claimed

In addition to the generic inclusions (where relevant), the following inclusions will apply:

- Locating and breaking into duct
- Excavating a hole to perform jointing
- Installing Duct Tee
- Breaking out tubes
- Any testing to ensure integrity of installation (but excluding any pre-Build remediation works)
- Excavation backfilling and removal / disposal of excess material
- Handling, installation and joining of duct
- Soft Surface reinstatement
- Records Management

In addition to the generic exclusions (where relevant), the following exclusions will apply:

- Trenching between joint hole & boundary
- Hard surface reinstatement to be claimed using the relevant reinstatement code(s)
- Supply of duct. Either use consigned Microduct or appropriate MDUCTx Code.

Details: Indicative materials	
Consumable	Duct & Duct Tee Miscellaneous materials Mastic tape
Consigned	DB Microduct & accessories MDCC kit Mastic Kit

Consumable by Set Variation	Additional rate for extra tubes (per tube). Use Extra Rate for additional tubes Code N-761.

CODE N-761 – Standard Lateral Extra Rate for additional tubes

Short Code:
Standard lateral – additional tubes

Platforms covered:
NGA

Code unit:
Per tube

Additional rate for each tube over and above the two tubes allocated in the Standard Lateral code

CODE N-B16 - Install New Pole And Changeover Plant

Short Code:

New pole

Platforms covered:

NGA

Code unit:

Per pole and changeover plant

Outcome Description:

Install new pole and changeover plant (covers both copper and fibre plant) for:

- Pole for new network or customer connection.
- Pole for rearrangement of existing network or customer connection.

Types of work included/excluded:

In addition to the generic inclusions, the following inclusions will apply:

- Supply and install pole and move all plant onto new pole.
- Removal of old pole and relocate all plant onto the new pole.
- Reinstatement.
- Co-ordinate power changeover with power authority.
- Aerial reconstruction as required.
- Comply with Local Authority code of practice.
- Dismantling/removing obsolete/redundant pole hardware and/or aerial plant (i.e. dropwire) for the 1st span away from the pole being replaced in all directions, but excluding dismantling SSA cable.
- For pole replacement work, the N-B16 Code is to include an allowance for a maximum of 1m ancillary trenching and associated reinstatement to get buried plant (both copper and fibre) from the base of the existing pole to the base of the new pole (based on the assumption that the poles are installed in close proximity to each other). This allowance would typically apply to simple buried service lead scenarios feeding up or down the pole, with the actual buried service lead rearrangement also included in the N-B16 code, along with the pole-top work. The allowance will also cover the moving of other buried plant when the plant can moved to the new pole with no jointing etc.
  If more than 1m of trenching is required for the ancillary service lead activity, then the trenching N-C04 Codes (or N-D01, N-D02, N-D03, N-E01 Codes) will apply.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions, the following exclusions will apply:

- Replacement and/or changeover of plant for damaged pole(s) e.g. car crash damage or storm damage - see the Reactive Maintenance – Outside Plant Codes.
- Replacement and/or changeover of plant on third party poles - see Reactive Maintenance – Outside Plant Codes.
- Trenching costs beyond the 1m allowance - see N-C04 Codes.
- Replacement of a Network cable terminal – see the N-B04 Code.

For the following exclusion the Service Company shall provide a quote to Chorus on a time and materials basis:

- Dismantling/removing obsolete/redundant pole hardware and/or aerial plant (i.e. dropwire) beyond the 1st span away from the pole being replaced in all directions.
- Replacement/re-establishment of buried fibre plant beyond simple ancillary work.
- Replacement of aerial cable.
- Replacement of aerial lines per span.
- Dismantling obsolete SSA aerial cable.

Details:

Indicative materials	
Consumable	Pole (per lot). Pole block (per lot). Terminal block (per lot). Cable cover and casing or duct (per lot). Connector (per lot). Aerial hardware, boxes, nuts, screws, slabs, saddles, bolts, clamps, bobbins, ties, tape and binders etc. (per lot). Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.

CODE N-C11A - Install Self Supporting Aerial Cable - Fibre

Short Code:

SSA cable - fibre

Platforms covered:

NGA

Code unit:

Per span

Outcome Description:

Install self-supporting/ADSS aerial (SSA) fibre cable.

Types of work included/excluded:

In addition to the generic inclusions, the following inclusions will apply:

- Liaison with property owner.
- Cable erection.
- Trench/thrust from pole to main network feeder cable tail from pole to main network feeder cable or extension to NGA Communal Network to a maximum 5 metres trench length measured from the pole location to the supply cable or end of NGA Communal Network – trenching over 5 metres covered by the appropriate N-C04 Codes (or N-D01, N-D02, N-D03, N-E01 Codes).
- Reinstatement.
- Comply with Local Authority code of practice.
- Tagging of existing poles attached to and NETMAP updating.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.

In addition to the generic exclusions, the following exclusions will apply:

- All fibre jointing – see the N-C14 Codes.
- Aerial Fibre terminal – see the N-736 Code.
- Service leads – see the N-803 and N-705 Codes.
- Poles – see the N-B16 Code.
- Dismantling of existing aerial cable where cable is being overlaid - the Service Company shall provide a quote to Chorus on a time and materials basis.

Details:

Indicative materials	
Consumable	Aerial hardware, blocks, boxes, eyebolts, nuts, screws, slabs, saddles, bobbins, ties, tape, binders and spacers etc. (per lot). Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consigned	Aerial fibre cable

CODE N-RoW1-8: Fixed Price RoW Build

Short Code:
RoW Build

Platforms covered:
NGA

Code unit:
Per End Customer Site (ECS), qualifying under Appendix A, clauses 3.2 and 3.3

Note also: For the appropriate approval path for the N-ROW1-8 please refer to section 9.4 "NGA Approvals/Variation & Pre-approval Guidelines" of the 'NGA MDU-ROW Design and Build Operational Guidelines (ND0636 v 5.0 or later). Payment claim approval is conditional on this process being followed.

Code	ROW Infrastructure Methodology
N-ROW1	Aerial
N-ROW2	Haul
N-ROW3	Surface Mount
N-ROW4	Trenching
N-ROW5	Slot Trenching
N-ROW6	Drill / Thrust
N-ROW7	Hard Surface Trench - Standard reinstatement
N-ROW8	Hard Surface Trench - Other reinstatement

Details:

- The N-ROWx codes are fixed-price outcome-based Service Charges covering all aspects of the ROW Build, as more fully described in the relevant Technical Documents. For the avoidance of doubt, no other Service Charges (coded or otherwise) can be claimed in addition to the N-RoWx codes except as specifically described:
  - in the Generic Exclusions (e.g. Elevated Work Platforms), or
  - as a specific Exclusion under these service specifications (e.g. Network/Cable Route Plans), or
  - as otherwise allowed for in these service specifications (e.g. the installation, removal & reinstatement (if any) of any installed Network, equipment etc. or transitioning costs (from one methodology to another) which will be charged using the relevant service charges described in the NGA SOW).
- A project flowing down the ROW build path is deemed to have gone through the NGA Order identification process ND13034 v1.0 (or as updated from time to time) to determine that this actually is a ROW and not another work type.
- The technical standards that apply to ROW Infrastructure Methodologies & the ROW Infrastructure Methodology Decision Tree that determines the appropriate ROW Infrastructure Methodology to be undertaken are described in the relevant Technical Documents.
  - Where Consent requires a particular ROW Infrastructure Methodology to be undertaken, the Consent requirement will supersede the ROW Infrastructure Methodology Decision Tree
  - Where Consent has been obtained and a particular methodology/architecture has been agreed, but that methodology/architecture is required to be changed due to a customer request,
    - this may result in a change in the N-ROWx codes, and
    - the installation, removal & reinstatement (if any) of any installed Network, equipment etc. or transitioning costs (from one methodology to another) will be charged using the relevant Fibre Build Codes, and

  provided Chorus approval is sought and gained

- If a job is cancelled after the scope, but before build is started, then the N-704x ROW Scope code will apply (as appropriate)
- If the job is cancelled once build has started, then the installation, removal & reinstatement (if any) of any installed Network, equipment etc. will be charged using the relevant service with Chorus prior approval
- The technical standards applicable to the civil works described in N-ROW4, N-ROW5, N-ROW6, N-ROW7 & N-ROW8 are described the various Technical Documents, including ND0563 NGA Provisioning and Assure Task Handbook v2.4, ND13035 Slot Trenching for Ruggedised Microduct Installation v1.0 & ND0604 Reinstatement Standards for Trenching on Private Property v1.1 (or as updated from time to time)
- 'Trenching', as described in N-ROW4, includes any trenching width that is not a Slot Trench as described in N-ROW5, and includes any non-specialist surface type (as described in the Generic Exclusions), that does not require Hard Surface Reinstatement as described in N-ROW7 or N-ROW8. For the avoidance of doubt, Cobble Stones (as described in ND0604 v1.0 or as updated from time to time) are included within the scope of N-ROW5 as they do not meet the definition of Standard or Other reinstatement described in N-ROW7 or N-ROW8,
- 'Slot Trenching', as described in N-ROW5, includes any trenching undertaken using the slot trenching methodologies described in ND13035 v1.0 (or as updated from time to time), and includes any non-specialist surface type (as described in the Generic Exclusions), that does not require Hard Surface Reinstatement as described in N-ROW7 or N-ROW8
- All reinstatement is on a like for like basis as described in the relevant Technical Documents
    - As described in ND0604 v1.0 (or as updated from time to time), concrete reinstatement includes smooth, brushed or exposed aggregate, but excludes exposed with feature stones, pressed patterns, or coloured concrete.
    - 'Standard' type reinstatement, as described in N-ROW7, refers to surface types up to 150mm and without reinforcing that are akin to a footpath or residential driveway standard, either in concrete or asphalt or any other non-specialist surface type as described in the Generic Exclusions
    - 'Other' type reinstatement, as described in N-ROW8, refers to surface types that are in excess of 150mm, and/or include mesh or pinning reinforcing, either in concrete or asphalt or any other non-specialist surface type as described in the Generic Exclusions
- Only one type of N-ROWx code can be claimed for each ROW. For example:
    - if 3 of the 4 ECSs on a ROW will be aerially fed, but 1 of the 4 ECSs will be surface mounted, then generally 4 x N-ROW1 codes would apply,
    - if 3 of the 4 ECSs on a ROW will be aerially fed, but 1 of the 4 ECSs will be trenched in 100mm concrete, and that reinstatement amounts to 14m^2 (i.e. it exceeds an average 3m^2 per ECS), then 4 x N-ROW7 codes would apply
    - Refer worked examples below for how to determine the N-ROWx code based on the quantities deployed
- The N-ROW1, N-ROW2 & N-ROW3 Codes include:
    - up to an average 5- lineal metres of inside or outside boundary trenching, drilling or thrusting per ECS, or
    - up to an average 3m2 of inside or outside boundary reinstatement in any hard surface type per ECS
- Where the inside or outside boundary trenching, drilling or thrusting exceeds an average 5 lineal meters per ECS, then the relevant N-ROW4, N-ROW5 or N-ROW6 code applies
- Where the inside or outside boundary reinstatement exceeds an average of 3m^2 per ECS (including where Local Authorities require full-width or full-panel reinstatement), then the relevant N-ROW7 or N-ROW8 code applies
- The N-ROWx codes will not apply:
    - to communal build that requires an MDU architecture to be deployed, or
    - to Heritage Buildings (which follow a separate work flow process)

- **Civil Limits for Fixed Price ROW Codes:** Use of the N-ROW 1 to N-ROW 8 code is restricted to ROWs measuring 220m in length or less. For ROWs longer than 220 meters in length the ROW Fixed Price Codes shall not apply and UCG shall be entitled to use Fibre Build Codes to price the entire ROW. For the avoidance of doubt ROWs less than 220m in length are to be priced using the appropriate N-ROW1 to N-ROW8 Codes.
- Measurement of ROW length: the start point for measuring the ROW length is public / private boundary where the ROW commences. The end point is the point at which the NGA Communal Network is deployed to (noting this must terminate somewhere in the communal part of the ROW)

Scope of Works *(pursuant to the relevant Technical Documents)*:

- As more fully described in ND13006 v1.2 (or as updated from time to time):
  - All interface options between the Communal Infrastructure (the UFB Network) and the ROW Infrastructure, and
  - All dimension options for the ROW Infrastructure,
- Service Companies are free to undertake the most cost-effective or optimal combination of network elements to complete the ROW Infrastructure build to each premises boundary.
- Interface options between Communal Infrastructure and dimension options for the ROW Infrastructure are not restricted by product type (e.g. fibre/duct or other network equipment or materials)

Inclusions: - in addition to the generic inclusions described in this Schedule 8 (where relevant), the following inclusions will apply (where required & pursuant to the relevant Technical Documents):

- Includes residential & commercial premises & properties
- All site visits & liaison with property owner(s) during all stages of the workflow process, including consent (liaison & co-ordination only as the consent activity is outside the scope of NGA Provisioning Services), and build.
- All scope documentation & quote (where required, or as may be reasonably requested by Chorus from time to time), records and all admin required to complete the build job & enable provisioning of NGA Service Orders through Chorus' systems
- The movement and labour of supervisory resources, technicians & civil crews and their vehicles & equipment to and from the job-site as necessarily required to perform the relevant Services. Includes all ancillary travel & vehicle fit-out costs such as parking & equipment, including trailers
- Co-ordination of work activities with Chorus and other service companies and third parties who may have coincident work in the same location
- The Communal Network Interface:
  - Supply, installation and connection of all interface options between the Communal Infrastructure and the ROW Infrastructure.
  - Supply, installation and connection of all dimension options for the ROW Infrastructure.
  - Supply, installation and connection of ducts and associated civil and reinstatement work to facilitate hauling fixed fibre or blowing customer fibre from the communal network to an IFDB FAT, OFDC FAT (aerial or UG) or a Flash 9 FFP (as applicable) within the ROW Infrastructure.
  - Hauling fixed fibre or blowing customer fibre from communal network to an IFDB FAT, OFDC FAT (aerial or UG) or a Flash 9 FFP (as applicable) within the ROW Infrastructure.
- The ROW Infrastructure:
  - Supply, installation and connection of ducts and associated civil and reinstatement work to facilitate hauling fixed fibre or blowing customer fibre from the IFDB FAT, OFDC FAT (aerial or UG) or a Flash 9 FFP (as applicable) within the ROW Infrastructure to each boundary or ETP in order to facilitate a Customer Connection under the relevant N-XXX Basic Connection code.

- Installation of the OFDC FAT (aerial or UG), Flash 9 FFP, or IFDB FAT (including any Pillar), but excluding the installation or upgrading of a pits, manholes poles or hand holes within the communal ROW or communal Council road reserve and berm,

- All fibre jointing, terminating & testing
- All duct & microduct jointing, sealing & testing, including preparation of the duct sheaths, joining all tubes & installation of any enclosures & seals. As per ND13044 Build & NGA Best Practice Tasks for the Flash9 Closure v 1.1 (or as updated from time to time).

Exclusions: - in addition to the generic exclusions, the following exclusions will apply:

- Customer connection (including the initiating ROW customer) is excluded and claimed with the N-XXX Basic Connection code.
- Any work within the Customer land area or premises, either Residential of Commercial.
- N-ROW7 excludes reinstating surfaces greater than 150mm in depth or the installation of reinforcing materials
- Level 2 & 3 Traffic Management.
- Hauling fixed fibre or blowing customer fibre from an IFDB FAT, OFDC FAT (aerial or UG) or a Flash 9 FFP (as applicable) within the ROW Infrastructure to each boundary or ETP (which is included in the N-XXX Basic Connection code).
- Designs, or Network/Cable Route Plans – where a Design or Network/Cable Route Plan is requested by Chorus, the relevant N-757x Network/Cable Route Plan code will apply
- Any works covered by the Faulty Network or UFB Augmentation processes, including Duct Breaks within the ROW or in the communal corridor
- Land owner requests outside of standard construction methods described in the relevant Technical Documents
- Supply/Installation or upgrading of pits, manholes, poles or hand holes within the communal ROW or communal Council road reserve and berm (the relevant Fibre Build code will apply)

Materials:

Indicative materials	
Consumable *	Duct 50mm or 100mm - 6 Metre length or continuous. Bends and draw wire (per lot). Standard Capping & uPVC Conduit & Associated mounting materials On-wall external capping corners, joiners, bends, Conduit joiners, saddles, bends, tees, flexi tube etc. Miscellaneous materials e.g. tape, ties, Velcro, splice protector's tape, ties, masonry anchors, Sealing compound etc. And any other Consumable Materials that may be required from time to time
Consigned *	Ruggedised and Fibre cables Microduct – Ribbonet, Micronet Fibre jointing materials including but not limited to Closures, IFDBs, and Gators etc. And any other Consigned Materials that may be required from time to time
Consumable by set variation *	pits, manholes, poles or hand holes (and any other Consumables by set Variation that may be required from time to time) – claim the applicable Material code
** These lists are not exhaustive*	

N-ROW Codes – Code Selection – Worked Examples

Rule 1: Where a mixture of Non-Civil & Civil architecture is deployed, then the Civil Methodology will supersede the Non-Civil methodology, but only if that Civil threshold has been triggered

Rule 1: Where a mixture of Non-Civil & Civil architecture is deployed, then the Civil Methodolgy will supercede the Non-Civil methodology, but only if that Civil threshold has been triggered

	Actual Lineal meters	Actual Square meters	Assessment Criteria	Actual Lineal meters	Actual Square meters	Quanties used in Assessment
Total Number of Qualifying ECS on that ROW	5					
Aerial	**75.0**	**na**	**Total Lineal Meters**	**15.0**	**na**	**Average Lineal Metres per ECS**
Haul	70.0	na	Total Lineal Meters	14.0	na	Average Lineal Metres per ECS
Surface Moun	70.0	na	Total Lineal Meters	14.0	na	Average Lineal Metres per ECS
Total Non-Civil Ir	215.0	na		43.0	na	Average Lineal Metres per ECS
Slot Trenching	20.0	na	>5 Lineal Meters / Per ECS	4.0	na	Average Lineal Metres per ECS
Trenching	0.0	na	>5 Lineal Meters / Per ECS	0.0	na	Average Lineal Metres per ECS
Drill / Thrst	20.0	na	>5 Lineal Meters / Per ECS	4.0	na	Average Lineal Metres per ECS
Hard Surface Trench - Standard Reinstatement	0.0	0.0	>3 Square Meters / Per ECS	0.0	0.0	Average Square Metres per ECS
Hard Surface Trench - Other Reinstatement	16.7	10.0	>3 Square Meters / Per ECS	3.3	2.0	Average Square Metres per ECS
Total Civil Infrastructure (total lineal meters)	56.7			11.3		
Total ROW Infrastructure (total lineal meters)	271.7			54.3		

The civil codes have not been triggered, and Aerial is the Predominant non-civil methodology, so billing would be based on 5 x S-ROW1 codes

Not triggered - irrelevant

	Actual Lineal meters	Actual Square meters	Assessment Criteria	Actual Lineal meters	Actual Square meters	Quanties used in Assessment
Total Number of Qualifying ECS on that ROW	5					
Aerial	75.0	na	Total Lineal Meters	15.0	na	Average Lineal Metres per ECS
Haul	70.0	na	Total Lineal Meters	14.0	na	Average Lineal Metres per ECS
Surface Mount	70.0	na	Total Lineal Meters	14.0	na	Average Lineal Metres per ECS
Total Non-Civil Infrastr	215.0	na		43.0	na	Average Lineal Metres per ECS
Slot Trenching	**30.0**	**na**	**ECS**	**6.0**	**na**	**Average Lineal Metres per ECS**
Trenching	0.0	na	ECS	0.0	na	Average Lineal Metres per ECS
Drill / Thrst	20.0	na	ECS	4.0	na	Average Lineal Metres per ECS
Hard Surface Trench - Standard Reinstatement	0.0	0.0	ECS	0.0	0.0	Average Square Metres per ECS
Hard Surface Trench - Other Reinstatement	16.7	10.0	ECS	3.3	2.0	Average Square Metres per ECS
Total Civil Infrastructure (total lineal meters)	66.7			13.3		
Total ROW Infrastructure (total lineal meters)	281.7			56.3		

Aerial is the predominant methodology by distance, but irrelevant as the civil codes have been triggered

The Slot Trenching code has been triggered, so billing would be based on 5 x S-ROW4 codes

Not triggered - irrelevant

Rule 2: Where a mixture of architecture is deployed and none of the Civil methodologies have been triggered, the N-ROWx code will be determined by the Non-Civil methodology with the highest lineal meter measure. If more than one Civil methodology has been triggered the N-ROWx code for the most expensive Civil methodology shall be used.

Rule 2: Where a mixture of architecture is deployed, the N-ROWx code will be determined by the predominant Non-Civil methodlogy, or the most expensive Civil methodology, but only if that Civil methodology has been triggered

	Actual Lineal meters	Actual Square meters	Assessment Criteria	Actual Lineal meters	Actual Square meters	Quanties used in Assessment
Total Number of Qualifying ECS on that ROW	5					
Aerial	**75.0**	**na**	**Total Lineal Meters**	**15.0**	**na**	**Average Lineal Metres per ECS**
Haul	70.0	na	Total Lineal Meters	14.0	na	Average Lineal Metres per ECS
Surface Mount	70.0	na	Total Lineal Meters	14.0	na	Average Lineal Metres per ECS
Total Non-Civil Int	215.0	na		43.0	na	Average Lineal Metres per ECS
Slot Trenching	20.0	na	>5 Lineal Meters / Per ECS	4.0	na	Average Lineal Metres per ECS
Trenching	0.0	na	>5 Lineal Meters / Per ECS	0.0	na	Average Lineal Metres per ECS
Drill / Thrst	20.0	na	>5 Lineal Meters / Per ECS	4.0	na	Average Lineal Metres per ECS
Hard Surface Trench - Standard Reinstatement	0.0	0.0	>3 Square Meters / Per ECS	0.0	0.0	Average Square Metres per ECS
Hard Surface Trench - Other Reinstatement	16.7	10.0	>3 Square Meters / Per ECS	3.3	2.0	Average Square Metres per ECS
Total Civil Infrastructure (total lineal meters)	56.7					
Total ROW Infrastructure (total lineal meters)	271.7					

The civil codes have not been triggered, and Aerial is the Predominant non-civil methodology, so billing would be based on 5 x S-ROW1 codes

Not triggered - irrelevant

	Actual Lineal meters	Actual Square meters	Assessment Criteria	Actual Lineal meters	Actual Square meters	Quanties used in Assessment
Total Number of Qualifying ECS on that ROW	5					
Aerial	75.0	na	Total Lineal Meters	15.0	na	Average Lineal Metres per ECS
Haul	70.0	na	Total Lineal Meters	14.0	na	Average Lineal Metres per ECS
Surface Mount	70.0	na	Total Lineal Meters	14.0	na	Average Lineal Metres per ECS
Total Non-Civil Infras	215.0	na		43.0	na	Average Lineal Metres per ECS
Slot Trenching	30.0	na		6.0	na	Average Lineal Metres per ECS
Trenching	**30.0**	**na**		**6.0**	**na**	**Average Lineal Metres per ECS**
Drill / Thrst	20.0	na		4.0	na	Average Lineal Metres per ECS
Hard Surface Trench - Standard Reinstatement	0.0	0.0		0.0	0.0	Average Square Metres per ECS
Hard Surface Trench - Other Reinstatement	16.7	10.0		3.3	2.0	Average Square Metres per ECS
Total Civil Infrastructure (total lineal meters)	96.7					
Total ROW Infrastructure (total lineal meters)	311.7					

Aerial is the predominant methodology by distance, but irrelevant as the civil codes have been triggered

Two civil codes have been equally triggered, but Hard Surface Trench - Std Reinstatement is the more expensive methodology (by code), so billing would be based on 5 x S-ROW

Not triggered - irrelevant

	Actual Lineal meters	Actual Square meters	Assessment Criteria	Actual Lineal meters	Actual Square meters	Quanties used in Assessment
Total Number of Qualifying ECS on that ROW	5					
Aerial	75.0	na	Total Lineal Meters	15.0	na	Average Lineal Metres per ECS
Haul	70.0	na	Total Lineal Meters	14.0	na	Average Lineal Metres per ECS
Surface Mount	70.0	na	Total Lineal Meters	14.0	na	Average Lineal Metres per ECS
Total Non-Civil Infras	215.0	na		43.0	na	Average Lineal Metres per ECS
Slot Trenching	20.0	na	>5 Lineal Meters / Per ECS	4.0	na	Average Lineal Metres per ECS
Trenching	40.0	na	>5 Lineal Meters / Per ECS	8.0	na	Average Lineal Metres per ECS
Drill / Thrst	20.0	na	>5 Lineal Meters / Per ECS	4.0	na	Average Lineal Metres per ECS
Hard Surface Trench - Standard Reinstatement	**35.0**	**21.0**	**>3 Square Meters / Per ECS**	**7.0**	**4.2**	**Average Square Metres per ECS**
Hard Surface Trench - Other Reinstatement	16.7	10.0	>3 Square Meters / Per ECS	3.3	2.0	Average Square Metres per ECS
Total Civil Infrastructure	131.7			26.3		
Total ROW Infrastructure	346.7			69.3		

Aerial is the predominant methodology by distance, but irrelevant as the civil codes have been triggered

Two civil codes have been triggered, but Hard Surface Trench - Std Reinstatement is the more expensive methodology (by code), so billing would be based on 5 x S-ROW7

Examples:

NGA Code	Non-Civil Activity			Civil Activity				
	Aerial	Haul	Surface Mount	Slot Trenching	Trenching	Drill / Thrust	Hard Surface Trench Standard Reinstatement	Hard Surface Trench Other Reinstatement
Non-Civil Infrastructure								
N-ROW1 Aerial	**A ROW will attract the N-ROW1 code where the Aerial works are the predominant methodology for that ROW**	Included, but not as the predominant methodology for that ROW	Included, but not as the predominant methodology for that ROW	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 3-square metres per qualifying ECS	Included, but limited to an average of less than 3-square metres per qualifying ECS
N-ROW2 Haul	Included, but not as the predominant methodology for that ROW	**A ROW will attract the N-ROW2 code where the hauling works are the predominant methodology for that ROW**	Included, but not as the predominant methodology for that ROW	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 3-square metres per qualifying ECS	Included, but limited to an average of less than 3-square metres per qualifying ECS
N-ROW3 Surface Mount	Included, but not as the predominant methodology for that ROW	Included, but not as the predominant methodology for that ROW	**A ROW will attract the N-ROW3 code where the Surface Mounting works are the predominant methodology for that ROW**	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 3-square metres per qualifying ECS	Included, but limited to an average of less than 3-square metres per qualifying ECS
Civil Infrastructure								

N-ROW4 Slot Trenching	Included, but not as the predominant methodology for that ROW	Included, but not as the predominant methodology for that ROW	Included, but not as the predominant methodology for that ROW	**A ROW will attract the N-ROW4 code where the Slot Trenching exceeds an average of 5-lineal-metres per qualifying ECS**	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 3-square metres per qualifying ECS	Included, but limited to an average of less than 3-square metres per qualifying ECS
N-ROW5 Trenching	Included, but not as the predominant methodology for that ROW	Included, but not as the predominant methodology for that ROW	Included, but not as the predominant methodology for that ROW	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	**A ROW will attract the N-ROW5 code where the Trenching exceeds an average of 5-lineal-metres per qualifying ECS**	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 3-square metres per qualifying ECS	Included, but limited to an average of less than 3-square metres per qualifying ECS
N-ROW6 Drill / Thrust	Included, but not as the predominant methodology for that ROW	Included, but not as the predominant methodology for that ROW	Included, but not as the predominant methodology for that ROW	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	**A ROW will attract the N-ROW6 code where the Drilling/Thrusting exceeds an average of 5-lineal-metres per qualifying ECS**	Included, but limited to an average of less than 3-square metres per qualifying ECS	Included, but limited to an average of less than 3-square metres per qualifying ECS
N-ROW7 Hard Surface Trench - Standard Reinstatement	Included, but not as the predominant methodology for that ROW	Included, but not as the predominant methodology for that ROW	Included, but not as the predominant methodology for that ROW	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	**A ROW will attract the N-ROW7 code where the Standard Reinstatement exceeds an average of 3-square-metres per qualifying ECS**	Included, but limited to an average of less than 3-square metres per qualifying ECS
N-ROW8 Hard Surface Trench - Other Reinstatement	Included, but not as the predominant methodology for that ROW	Included, but not as the predominant methodology for that ROW	Included, but not as the predominant methodology for that ROW	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 5-lineal metres per qualifying ECS	Included, but limited to an average of less than 3-square metres per qualifying ECS	**A ROW will attract the N-ROW8 code where the Other Reinstatement exceeds an average of 3-square-metres per qualifying ECS**

CODE N-MDU1a-2a - Fixed Price MDU Build

Short Code:
MDU Build

Platforms covered:
NGA

Code unit:
Per End Customer Site Point (ECS)

Code	Description	Code Unit
N-MDU1a	Class 1 & 2 MDU extension of existing network	Per ECS
N-MDU2a	Class 1 & 2 MDU additional FAT required	Per ECS

Outcome Description:

Complete the Lead-in, Distribution and Drop Networks for an MDU to facilitate End User connection via the N-552 Code.

The Lead-in Network*:

- Connecting the MDU to the UFB Network, with the NGA Communal Network at/in the MDU.

The Distribution Network*:

- Being the internal distribution within the MDU, commencing at the Lead-in Network and terminated at an I-FFP or FAT.

The Drop Network*:

- Being the fixed or air blown fibre from the I-FFP or FAT of the Distribution Network to each End User Premise, presented at the ETP/ITP (refer below for exception).

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply for all classes of MDUs:

- All site specific plans, site visits & liaison with property owner during all stages of the MDU workflow process i.e. consent (liaison & co-ordination only as the consent activity is outside the scope of NGA Provisioning Services), design and build.
- Scope documentation & quote (where required), records and all admin required to complete the build job & enable provisioning of subsequent orders through Chorus' systems.
- The movement and labour of supervisory resources, technicians & civil crews and their vehicles & equipment to and from the job-site as necessarily required to perform the relevant Services as well as any other variation triggered by this work. Includes all ancillary travel & vehicle fit-out costs such as parking & equipment, including trailers.
- Co-ordination of work activities with Chorus and other service companies and third parties who may have coincident work in the same location.

The Lead-in Network:

- Supply, installation and connection of ducts and associated civil and reinstatement work to facilitate hauling fixed fibre or blowing customer fibre from UFB Network to NGA Communal Network, limited to 30 lineal metres civil construction (D and E Codes), and 10 square metres of hard surface reinstatement (G Codes). For the avoidance of doubt, Slot trenching does not incur additional reinstatement therefore does not impact the 10 square metres of hard surface reinstatement allowed for within the code.
- Hauling fixed fibre or blowing customer fibre from UFB Network to the NGA Communal Network at/in the MDU.
- All fibre jointing, terminating & testing.

The Distribution Network:

- Installation of Network support infrastructure, and running/securing of Cable/Microduct on existing network support infrastructure, the installation of top floor cable management where required, and the installation of cable/Microduct breakout units and riser cable protection covers where required. Installation to conform to the Chorus standard outlined in the appropriate technical documentation.
- Install fibre optic distribution closure and installation of Fibre access terminal where applicable – e.g. BUDI / OFDC (except for MDU1 code claims which are to cover the extension of the existing network capacity).
- All fibre jointing, terminating & testing, including all jointing, terminating and testing of lead-in cable to connectorised tails where required, and laying unused lead-in Fibres in storage trays and provision of additional splice tray sub assembly.
- Microduct jointing, including preparation of the duct sheaths, joining all tubes & installation of the enclosures.

The Drop Network:

- Installation of the Drop Network in order to facilitate the Customer Connection under the N-552 Basic Connection code.
- Hauling fixed fibre or blowing customer fibre from the Distribution Network to the ETP/ITP which is Chorus' standard requirement. The fibre may be left coiled in a secure place within the ECS or ECS ceiling cavity where the body corporate requires this as condition of consent (and it has been approved by Chorus).
- Installation of ITPs or ETPs as required, and fire stopping of hollow wall penetrations using approved/suitable fire stopping products (e.g. Hilti, CSD, and Firepro) and any product-related certifications required. Where a penetration exists with no (or substandard) stopping, no stopping should be installed. Before & after photos should be taken as proof stopping did not exist or was substandard prior to installation.

Fire Stopping & Wall Penetrations:

- Any penetration through a solid masonry wall or floor using a core drill for the purpose of transporting Chorus Network up to 63mm OD duct and a maximum thickness of 300 mm. (over 300mm thickness to be quoted to Chorus and approved in advance), including Disposal of the removed wall material and sealing of the penetration from water and gas ingress, but excluding any specialist x-ray machines or other specialist equipment or reporting required on an ad hoc basis for investigating the integrity of the masonry wall or floor (which will be the Customers responsibility), including post-installation compliance.
- Fire stopping of a wall or floor penetration up to 300mm floor/wall depth/thickness (Over 300mm excluded) where necessarily required as specified in the relevant building standards (including the supply of approved/suitable fire stopping products (e.g. Hilti, CSD, Firepro) and any product-related certifications required), but excluding 3M Re-sealable fire stopping kits).
- Where a penetration exists with no (or substandard) stopping, no stopping should be installed. Before & after photos should be taken as proof stopping did not exist or was substandard prior to installation.
- There no insider or outside boundary distinction in this code with respect to the work needing to be performed.
- Any other activity, labour, plant and equipment to successfully achieve the Code Outcome Description which is not specifically excluded by applicable generic or specific exclusions.
- In addition to the generic exclusions, the following exclusions will apply for all classes of MDUs:
- MDUs that resemble multiple SDU buildings on one land parcel (which are likely to attract RoW build architecture) - see the appropriate N-RoW Codes.
- Remediation works covered by the Faulty Network & UFB Augmentation processes.
- Building owner requests outside of standard construction methods described in the relevant Technical Documents.
- 3M Re-sealable fire stopping kits & fire-rated access hatches/panels.

- Any structural integrity engineering assessments, incl. X-Rays or other specialist reporting required (on an ad hoc basis or as a result of any proposed wall or floor penetrations or fire topping activities) for investigating or certifying the integrity of building (which will be the Customers responsibility), including post-installation compliance such as building certifications / WOF.
- Class 3 & 4 MDU's – see Fibre Build Codes (which follow a separate workflow process).
- Heritage Buildings – see the fibre Build Codes (which follow a separate work flow process).
- Large commercial buildings, campus / complex sites, by mutual written consent prior to build phase - see the fibre Build Codes (which follow a separate work flow process).
- Installation of the Drop Network (support system) from the Distribution network to each ETP in excess of 15-metres per ECS – see the appropriate N-IA14a Codes.
- Lead-in Civil Construction in excess of 30 lineal metres – see the N-D and N-E Codes for the excess greater than the first 30m.
- Reinstatement in excess of 10 square metres - see the N-G Codes for the excess greater than the first 10 square metres.
- Supply of Internal Access panels – see the N-MAP Codes.
- Supply of Verticasa cable – see appropriate MC2 Code.
- Sealing of leadin duct once the cable has been installed, as required - see the N-MT1 or 2 codes.
- Supply/installation or upgrading of pits, manholes and poles within the UFB and NGA communal Networks- see the appropriate N-B08/B09/B10 and N-B16 Codes and associated N-M Codes.
- For the following exclusions, the Service Company shall provide a quote to Chorus:
- Core penetrations (in excess of 300mm thickness) and subsequent fire stopping of those penetrations (other than for hollow wall spaces).
- Supply and install of specialist support systems (e.g. specialist capping to match historic building brick work or ceiling mounted cable trays) which will be Customers responsibility.

Details:

Indicative materials	
Consumable	Duct 50mm 6 metre length, up to 30m in total. Duct 50mm continuous (per metre), up to 30m in total. Bends and draw wire (per lot). Standard Capping, Eye Bolts, Catenary wire, Cable Tray uPVC Conduit. Associated mounting materials e.g. Anchors and tensioners & cable tray brackets etc. On-wall capping corners, joiners, bends. Conduit joiners, saddles, bends, tees, flexi tube etc. Miscellaneous materials e.g. tape, ties, Velcro, splice protector's tape, ties, masonry anchors etc. (per lot) etc. Sealing compound etc. Approved/suitable fire stopping products (e.g. Hilti, CSD, Firepro). Any other materials required to complete the Code Outcome Description which is not covered by a Consumable by Set Addition or a Consigned Item.
Consumable by Set Addition	Access hatches & panels – see the appropriate N-MAP Code. Supply of fibre/Verticasa cable – see the appropriate N-MC2 Codes. Sealing of duct, as required – see the appropriate N-MT1 or 2 Codes. Supply of manholes/chambers/pits – see appropriate N-MB08/09/10 Codes.

Indicative materials	
	Excavation in rock – see appropriate G code. Supply Pole - see N-MB16 Codes.
Consigned	Tyco Electronics HDU cables. Microduct and Microduct joint closure. OFDC-A4/B8/C12 OR BUDI-1S/BUDI-2S. Associated hardware for LCA duplex connections. IFDB ROW terminal. BUDI-M box. PON upgrade kit. Associated BUDI-M seals. GPX I-FFP – MDU 12RU wall mounted cabinet. Pigtail pack LCA 1Fx1.5mx12 Fibre ETP & ITP *This list is not exhaustive*.

CODE N-U700 - Top Up Payment – Non Faulty Network Work Reinstatement

Short Code:

Internal reinstatement Top Up code

Platforms covered:

NGA

Code unit:

Per Service Order, MDU or ROW Build Work Order

Outcome Description:

Reinstatement hard surface only

Details

T&M costs captured for reinstatement can be claimed on each service order or work request in addition to the N-56x/ ROW and Build codes

Can only be claimed where UFB lateral has been installed directly under hard surface as part of the build program

Lateral must be found in the Chorus drop zone (1m x 0.5m x 0.6m)

Reinstatement area must be not exceed 3.0sqm

Exclusions

Top up code excludes the first 0.5sqm of reinstatement – this is covered in the basic connection code claimed by the technician (N-560 - N-564)

Excludes any other material costs

Does not include excavation time – this is covered in the basic connection code

Do not claim this code if reinstatement area is >3.0sqm

Excludes travel time

Checklist:
• FM Approval required • Claim only reinstatement costs • FNT Evidence form must be completed and approved by FM • Must have photos of with location, date and time stamps (evidence cam or similar) • Cannot be claimed where Faulty Network Tasks have been claimed on the same Service Order or Faulty network variation • No additional material costs are to be claimed with this code

*No payment of this code where information supplied is either incorrect or missing**

** This code can be reviewed and disestablished at any time at UCG's discretion**

CODE N- U701 - Top Up Payment - Scope

Short Code:

Internal NGA additional Scope activity

Platforms covered:

NGA

Code unit:

Per Service Order (or work request when used for SDU's)

Outcome Description:

To carry out additional scoping activities outside the N-701 full scope code

Only one instance of this code can be claimed on each service order (or work request when used for SDU's) in addition to the N-56x codes only

Types of work included/excluded:

In addition to the generic inclusions (where relevant), the following inclusions will apply when claiming this code:

Pre-call End Customer to confirm availability and / or estimated time of arrival.

Keep the End Customer informed at all times

Capture relevant information to ensure an SDU is referred with accurate information in a timely manner

Referral types – Only claim this code where

An MDU / ROW Referral where communal build is required

Installations that fall under the Last Step Fibre (LSF) definition see LSF process

Where Power Line company approval is required to attach to their asset for example Wellington Electricity

Checklist:
• Identify route with photos FM approval required • to capture fibre path when attaching to power poles, where jobs fall under LSF, or where communal build is required for MDU and ROW's • For LSF ensure we capture surface types and distances • Capture pole asset information for power company assets • Accurate distances for all changes in build methodology to install to premises – haul, surface mount, micro-trenching

No payment of this code where information supplied is either incorrect or missing

CODE N- U705 - Top Up Payment - Additional Span of Aerial Required (>2 Span)

Short Code:
Internal NGA Additional Aerial Span >2 or more

Platforms covered:

NGA

Code unit:

Per Span >2 or more

Outcome Description:

Erect additional aerial spans over and above 2 spans

Details

Multiple codes can be claimed on each service order (or work request when used for SDU's) in addition to the N-56x codes only

Checklist:
FM Approval required
Claim only where 3 span of aerial or more have been built on the N – 56x codes
Must have photos of each additional span with location, date and time stamps (evidence cam or similar)
No additional material costs are to be claimed in addition to this code

No payment of this code where information supplied is either incorrect or missing

** This code can be reviewed and disestablished at any time at UCG's discretion**

CODE N- U706 - Top Up Payment - Large Compressor required (YR 1 – Y2 Design only)

Short Code:

Internal NGA Large Compressor required (100L or more)

Platforms covered:

NGA

Code unit:

Per Service Order, MDU or ROW

Outcome Description:

Blow fibre from Network point to customer premises

Details

One code can be claimed on each service order in addition to the N-56x code (or work request when used for MDU & ROW)

Checklist:
FM Approval required
Claim only where a large compressor is required to blow fibre where a standard compressor has failed
All water must have been removed for this code to be used
Must have photos of with location, date and time stamps (evidence cam or similar)
Cannot be claimed where Faulty Network Tasks have been claimed on the same Service Order or Faulty network variation
No additional material costs are to be claimed with this code

No payment of this code where information supplied is either incorrect or missing

** This code can be reviewed and disestablished at any time at UCG's discretion**

CODE N- U707 - Top Up Payment - Outside Boundary Hauling distances are >100m between network access points

Short Code:

Internal NGA OSB >100m distance

Platforms covered:

NGA

Code unit:

T&M - Per Service Order, MDU or ROW

Outcome Description:

Haul cable between network points such as manholes and pits to end customer boundary

Details

T&M can be claimed on each service order in addition to the N-56x (or work request when used for MDU & ROW)

For the avoidance of doubt, this code is applicable when conventional hauling practice cannot achieve the desired result, and cannot be claimed if the distance between the two access points i.e. manholes or pits are less than 100m apart.

Checklist:
FM Approval required
Large rodding equipment (200m Proline or similar) or mechanical winching required to haul cable >100m in distance between manholes and pits
Must have photos and distances of each haul >100m long with location, date and time stamps (evidence cam or similar)
Cannot be claimed where Faulty Network Tasks have been claimed on the same Service Order or Faulty network variation
No additional material costs are to be claimed with this code

No payment of this code where information supplied is either incorrect or missing

** This code can be reviewed and disestablished at any time at UCG's discretion**

CODE N- U733 - Top Up Payment - Inside Boundary Surface mounting >50m distance

Short Code:

Internal NGA Surface Mount ISB >50m distance

Platforms covered:

NGA

Code unit:

Per metre Service Order (or work request when used for SDU's)

Outcome Description:

Surface mounting required where distance from communal drop off at end customer boundary point to EFP position at premise

Details

Capped at 30m where distance from communal drop off to ETP is greater than 80m in total

Per Metre >50m can be claimed on each service order (or work request when used for SDU's) in addition to the N-562 code only

To avoid doubt, not to be used with any other 56x codes (560, 561, 563, 564 &565)

Checklist:
FM Approval required
Must follow the decision tree process
Must have photos and distances of surface mounting with location, date and time stamps (evidence cam or similar)
No additional materials to be claimed

No payment of this code where information supplied is either incorrect or missing

** This code can be reviewed and disestablished at any time at UCG's discretion**

CODE N-U001c - Top Up Payment – Lateral found within Chorus Drop Zone and buried under hard surface

Reinstatement – Concrete Only

Short Code:

Lateral in Drop zone - Internal Reinstatement Top Up code

Platforms covered:

NGA

Code unit:

Excludes the first 0.5^2m

Claim in lots of 0.5^2m as required Per Service Order, MDU or ROW Build Work Order

Outcome Description:

Reinstatement hard surface only (Concrete)

Details

T&M costs captured for Faulty Network reinstatement when the service lateral has been installed to the customers boundary line and located in the defined area called 'Drop Zone'

The drop zone is 1^2m x 0.5^2m x 0.6^2m the customers boundary line

If reinstatement area exceeds 3.0^2m – claim a N-565, do not claim this top up code

Exclusions

Top up code excludes the first 0.5sqm of reinstatement – this is covered in the basic connection code claimed by the technician (N-560 - N-564)

Excludes any other material costs

Does not include excavation time – this is covered in the basic connection code

Do not claim this code if reinstatement area is >3.0^2m

Checklist:
• FM Approval required • Claim only reinstatement costs (concrete) • Must have photos of with location, date and time stamps (evidence cam or similar) • No additional material costs are to be claimed with this code

No payment of this code where information supplied is either incorrect or missing

** This code can be reviewed and disestablished at any time at UCG's discretion**

CODE N-U001s - Top Up Payment – Lateral found within Chorus Drop Zone and buried under hard surface

Reinstatement – Seal Only

Short Code:

Lateral in Drop zone - Internal Reinstatement Top Up code

Platforms covered:

NGA

Code unit:

Excludes the first 0.5^2m

Claim in lots of 0.5^2m as required Per Service Order, MDU or ROW Build Work Order

Outcome Description:

Reinstatement hard surface only (Seal)

Details

T&M costs captured for reinstatement when the service lateral has been installed to the customers boundary line and located in the defined area called 'Drop Zone'

The drop zone is 1^2m x 0.5^2m x 0.6^2m the customers boundary line

If reinstatement area exceeds 3.0^2m – claim a N-565, do not claim this code

Exclusions

Top up code excludes the first 0.5sqm of reinstatement – this is covered in the basic connection code claimed by the technician (N-560 - N-564)

Excludes any other material costs

Does not include excavation time – this is covered in the basic connection code

Do not claim this code if reinstatement area is $>3.0^2_m$

Checklist:
• FM Approval required • Claim only reinstatement costs (Seal) • Must have photos of with location, date and time stamps (evidence cam or similar) • No additional material costs are to be claimed with this code

No payment of this code where information supplied is either incorrect or missing

** This code can be reviewed and disestablished at any time at UCG's discretion**

CODE N-U002c - Top Up Payment – Faulty or missing Starter Pipes within the drop Zone

Reinstatement – Concrete

Short Code:

Missing or Faulty Starter Pipes, Network Re-Instatement Top Up code

Platforms covered:

NGA

Code unit:

Claim in lots of 0.5^2m as required Per Service Order, MDU or ROW Build Work Order

Outcome Description:

Reinstatement hard surface only

Details

T&M costs capturing the reinstatement cost where the starter pipes are either incorrectly installed or where they have not been installed

Code can be claimed on each service order or work request in addition to the N-560 – N-564 & ROW and Build codes

If reinstatement area $>3^2_M$ then claim the N-565 code instead

Starter pipes must be found inside the Chorus drop zone (1^2m x 0.5^2m x 0.6^2m)

Exclusions

Top up code excludes the first 0.5sqm of reinstatement – this is covered in the basic connection code claimed by the technician (N-560 - N-564)

Do not claim this code if reinstatement area is $>3^2_M$

Excludes any other material costs

Does not include excavation time in the 'Drop Zone – this is covered in the basic connection code

Checklist:
• FM Approval required • Claim only reinstatement costs • Must have photos of with location, date and time stamps (evidence cam or similar) • No additional material costs are to be claimed with this code

**No payment of this code where information supplied is either incorrect or

This code can be reviewed and disestablished at any time at UCG's discretion

CODE N-U002s - Top Up Payment – Faulty or missing Starter Pipes within the drop Zone

Reinstatement – Seal

Short Code:

Missing or Faulty Starter Pipes, Network Re-Instatement Top Up code

Platforms covered:

NGA

Code unit:

Claim in lots of 0.5^2m as required Per Service Order, MDU or ROW Build Work Order

Outcome Description:

Reinstatement hard surface only

Details

T&M costs capturing the reinstatement cost where the starter pipes are either incorrectly installed or where they have not been installed

Code can be claimed on each service order or work request in addition to the N-560 – N-564 & ROW and Build codes

If reinstatement area $>3^2_M$ then claim the N-565 code instead

Starter pipes must be found inside the Chorus drop zone (1^2m x 0.5^2m x 0.6^2m)

Exclusions

Top up code excludes the first 0.5sqm of reinstatement – this is covered in the basic connection code claimed by the technician (N-560 - N-564)

Do not claim this code if reinstatement area is $>3^2_M$

Excludes any other material costs

Does not include excavation time in the 'Drop Zone – this is covered in the basic connection code

Checklist:
• FM Approval required • Claim only reinstatement costs • Must have photos of with location, date and time stamps (evidence cam or similar) • No additional material costs are to be claimed with this code

**No payment of this code where information supplied is either incorrect or

This code can be reviewed and disestablished at any time at UCG's discretion

CODE N-704.1S – N-704.2S: Survey Payment (FPBC MDU's)

Short Code:

Survey Rate FPBC MDU's

Platforms covered:

NGA MDU

Code	Description	Code Unit
N-704.1SDP	Class 1 MDU - Survey	Per MDU
N-704.2SDP	Class 2 MDU - Survey	Per MDU

Types of work included/excluded:

All Network/Cable route plan drafting, including communal network or boundary to ETP, and ETP to ONT location

Scope documentation & quote

In addition to the generic inclusions (where relevant), the following inclusions will apply:

Site visits & Liaison with property owner during the consent stage (pre-build).

In addition to the generic exclusions (where relevant), the following exclusions will apply:

SDU's, including Standard Business SDU

Any structural integrity engineering assessments, incl. X-Rays or other specialist reporting required (on an ad hoc basis or as a result of any proposed wall or floor penetrations or fire topping activities) for investigating or certifying the integrity of building (which will be the Customers responsibility), including post-installation compliance such as building certifications / WOF

Details:

Only one instance of this code can be claimed per NGA iTools work request or Non-standard Business SDU.

Where the property owner requires more than one Network/Cable route plan and the original Network/Cable route plan was compliant with Chorus requirements, additional instances of this code can be claimed with the prior approval of Chorus, which will be the property owners responsibility.

The Non MDU code covers all non-MDU fibre build works including (but not limited to) Non-standard business SDU, Non-Building Access Points (NBAPs), Last Step Fibre Build (LSFB) and NGA over Non UFB (NONU).

CODE N-704.1SDP – N-704.2SDP: Survey Cost Reversal – Build Same Delivery Partner

Short Code:

Same DP Survey & Build

Platforms covered:

NGA MDU

Code	Description	Code Unit
N-704.1SDP	Class 1 MDU (Same DP – Build)	Per MDU
N-704.2SDP	Class 2 MDU (Same DP – Build)	Per MDU

Explanation:

The Fixed Price Build Code includes an amount for doing the survey which is included in the N-MDU1 and N-MDU2 code. To simplify the process and align with the new Land Access Legislation changes, UCG will apply a specific survey code N-704.1S or N-704.2S code for this activity on Class 1 and 2 MDU's. In doing so this will ensure the survey is paid automatically even if the build job is given to a different Delivery Partner or the cancelled. This 'SDP' code will be applied to negate the survey costs from the Fixed Price Build Code itself to ensure the survey costs are not doubled up.

Details:

One instance of this code will be applied when;

The Delivery Partner has completed a Survey for a Class 1 or 2 MDU and;

The Delivery Partner has been paid the applicable N-704.1S or N-704.2S code and;

The Delivery Partner has been allocated the Build job for the same site and is being built using the applicable Fixed Price Build Code N-MDU1 or N-MDU2

Where the above conditions have been met, UCG will apply the appropriate N-704.1SDP or N-704.2SDP code to the construction job and claim it back on behalf of the Delivery Partner automatically.

This will only be applied during the billing process and should the job be cancelled the SDP code will not be invoiced.

CODE N-704.1DDP – N-704.2DDP: Survey Cost Recovery – Build Different Delivery Partner

Short Code:

Different DP Survey & Build

Platforms covered:

NGA MDU

Code	Description	Code Unit
N-704.1DDP	Class 1 MDU (Different DP – Build)	Per MDU
N-704.2DDP	Class 2 MDU (Different DP – Build)	Per MDU

Explanation:

The Fixed Price Build Code includes an amount for doing the survey which is included in the N-MDU1 and N-MDU2 code. To simplify the process and align with the new Land Access Legislation changes, UCG will apply a specific survey code N-704.1S or N-704.2S code for this activity on Class 1 and 2 MDU's. In doing so this will ensure the survey is paid automatically even if the build job is given to a different Delivery Partner or the cancelled. This 'DDP' code will be applied when a Delivery Partner is scheduled a job that they haven't surveyed.

Details:

One instance of this code will be applied when;

The Delivery Partner has completed a Survey for a Class 1 or 2 MDU and;

The Delivery Partner has been paid the applicable N-704.1S or N-704.2S code and;

The Delivery Partner has been allocated the Build job that they didn't survey and is being built using the applicable Fixed Price Build Code N-MDU1 or N-MDU2

Where the above conditions have been met, UCG will apply the appropriate N-704.1DDP or N-704.2DDP code to the construction job and claim it back on behalf of the Delivery Partner automatically.

This will only be applied during the billing process and should the job be cancelled the DDP code will not be invoiced.

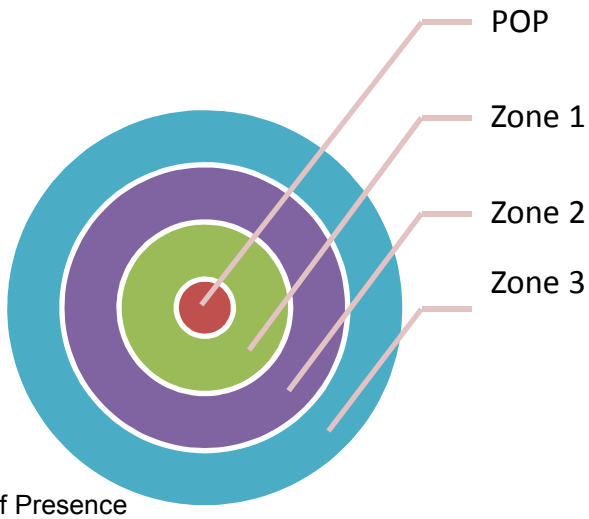
CODE N-TRA-Z2 – Z3 – Travel Rate

Short Code

Travel

Platforms covered:

NGA



Key:

- POP – Point of Presence
- Zone 1 – less than 50km from POP
- Zone 2 – 50km-100km from POP
- Zone 3 – greater than 100km from POP

Travel			
Travel	N-TRA-Z2	Zone 2 - Greater than 50km and less than 100km from UCG POP	Per Job
Travel	N-TRA-Z3	Zone 3 - Greater than 100km from UCG POP	Per Job

Details:

UCG will be establishing Point of Presence (POP) in towns across New Zealand for the UFB2 program. These POP's will be storage depots/warehouses where technicians will be able to source consigned materials. Within the first 50km around a POP (Zone 1), the schedule of rates for each job includes travel.

For jobs outside of Zone 1 (Zones 2 and 3) an additional payment(s) will be made. These will be per job and are to assist with travel, transport cost, beyond the 50km already included in the base rates.

Travel payments are applicable per job. If multiple jobs are completed on the same day in the same zone the Subcontractor will be paid a travel rate for each job.

For clarity, each Zone uses the POP as the centre location and is measured on a linear radius basis. It is therefore possible for a Subcontractor to reside in Zone 2 and the Zone 2 schedule of rate still be applied for work/s completed in Zone 2.

The Company's expectations are that work/s issued to a Subcontractor are completed end-to-end. In the case that The Company are required to schedule another Subcontractor or Company to complete a task that was not completed in full by the primary Subcontractor, the primary Subcontractor (who has accepted the ticket first) will forfeit 50% of the applicable travel fee and the secondary DP will still be paid the full applicable travel fee.

Exclusions:

- Service Class 3 & 4 travel codes are included in the N758 c & d codes. Refer to CODES N-758 - N-758D Mobilisation – MDU/ROW.

CODE N-P01

Short Code

Core Penetrations including Firestopping

Platforms covered:

NGA MDU/ROW

Code unit:

Per Penetration & Firestop

Outcome Description:

Penetration between fire cells is completed and successfully fire-stopped to the building code outlined by the Fire Protection Association of New Zealand (FPANZ).

Details

- Includes any penetration through a solid masonry wall or floor using a core drill for the purpose of transporting Chorus Network up to 63mm OD duct and a maximum thickness of 300 mm. (over 300mm thickness to be quoted to Chorus and approved in advance), including Disposal of the removed wall material and sealing of the penetration from water and gas ingress.
- Includes Fire stopping of a wall or floor penetration up to 300mm floor/wall depth/thickness (Over 300mm excluded) where necessarily required as specified in the relevant building standards. Where a penetration exists with no (or substandard) stopping, no stopping should be installed. Before & after photos should be taken as proof stopping did not exist or was substandard prior to installation.
- All technicians carrying out this activity must have completed the fire-proofing reinstatement training arranged by UCG.
- Includes the supply of approved firestopping product and any associated materials to ensure the firestop is to standard i.e. blanking jib etc.

Exclusion:

- Cannot be used in conjunction with Fire Stopping N-FS01

CODE N-FS01

Short Code

Firestopping only

Platforms covered:

NGA MDU/ROW

Code unit:

Per Firestop

Outcome Description:

Fire-stopped to the building code outlined by the Fire Protection Association of New Zealand (FPANZ).

Details

- Includes Fire stopping of a wall or floor penetration up to 300mm floor/wall depth/thickness (Over 300mm excluded) where necessarily required as specified in the relevant building standards. Where a penetration exists with no (or substandard) stopping, no stopping should be installed. Before & after photos should be taken as proof stopping did not exist or was substandard prior to installation.
- All technicians carrying out this activity must have completed the fire-proofing reinstatement training arranged by UCG.
- Includes the supply of approved firestopping product and any associated materials to ensure the firestop is to standard i.e. blanking jib etc.

Exclusion

- Penetrations. If a penetration is required use N-P01.