

FTTB FIBRE OPTIC INFRASTRUCTURE PLANNING

AREA:	Cape Town	PREMISES:	Harbour Arch Tower 1
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SURVEY INFORMATION:

Surveyed by:	Tiaan Du Toit	Company:	RSS Fibre	Date:	27/05/2021
Phone Number:	061 923 0612	Email Address:	tiaan@rssfibre.co.za		

SURVEY ATTENDANCE:

Company:	Name:	Phone Number:	Email Address:
RSS Fibre	Tiaan Du Toit	061 923 0612	tiaan@rssfibre.co.za

SITE INFORMATION:

Area:	Cape Town	Building Name:	Harbour Arch Tower
Site Address:	ERF 178316 Portion of ERF 164070 Cape Town, Foreshore		
Suburb:	Observatory	Region:	Western Region
Latitude:	-33.921784°	Longitude:	18.434362°
Number of Floors:	25 Floors	Number of Connections:	FTTH & FTTB 598 Connections

Cable Requirements:

Mini Cable:	12F	24F	48F	72F	96F	144F
Verticasa Cable:	12x2f	24x2f	48x2f			
Retractanet Cable:	24x2f	12x2f	n/a			
Duct:	2 way	4 way	7 way			
	12 way	40/34mm Sub- Duct				

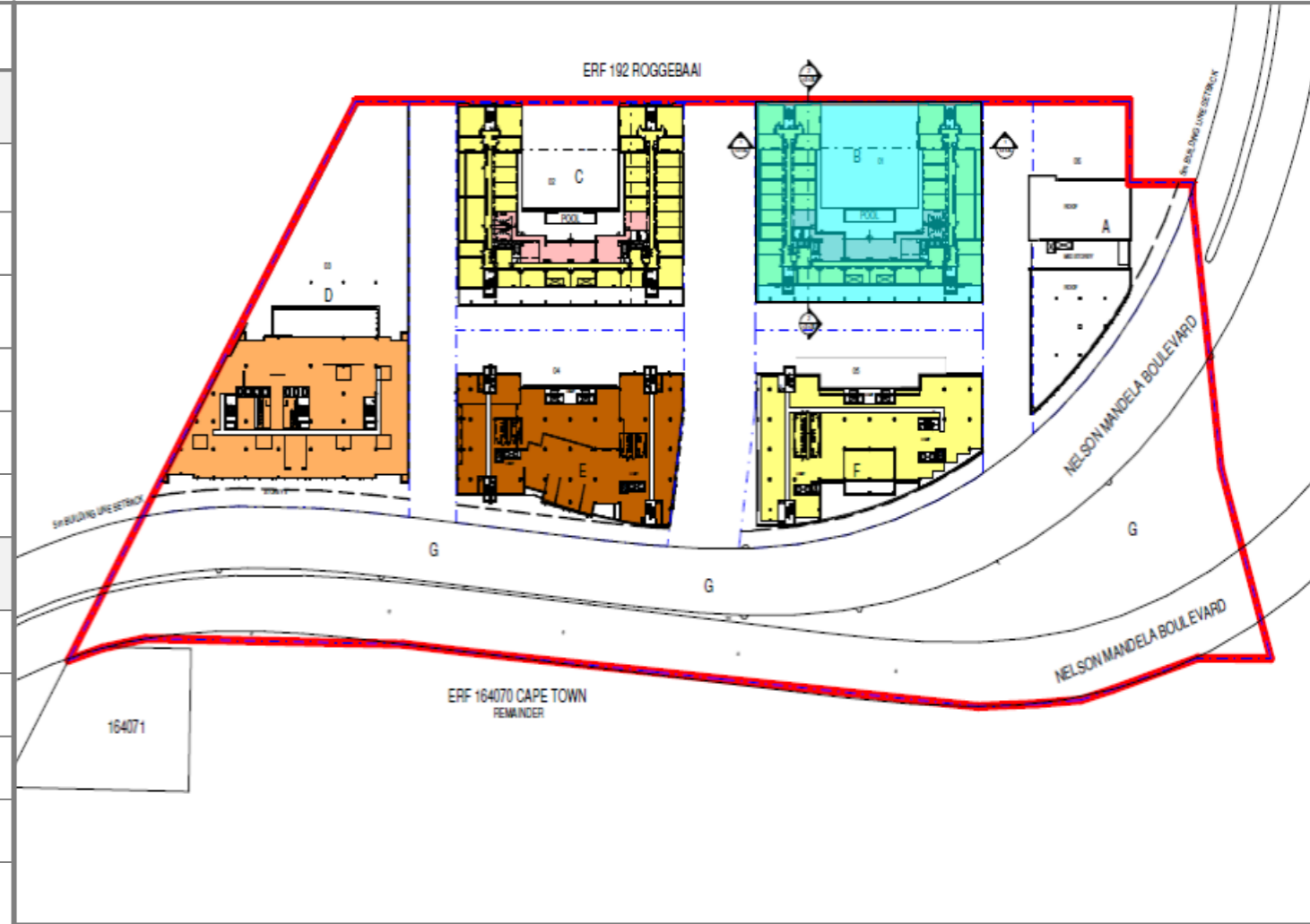
Notes:

- New 2 x 42U Cabinet to be installed.
- 7 Way 12/10 Duct to be installed from Level 08A towards Level 23.
- 2 x 7 Way 12/10 Duct to be installed from 42U Cabinet towards Level 08A.
- 144F Fibre to be floated towards F08 Access Box respectively .
- 19 F08 Access Boxes to be installed on site as indicated on planning.
- Ducts to be saddled to cable trays & inside risers in cable trays.
- Drop Cables to be hauled inside existing conduits towards FTTH units.
- GTU Supply & Installation Excluded from planning. (Client to advise of supply & installation)

INSTALLATION APPROVAL

Name:	Name:
Date:	Date:
Signature	Signature

Hereby I confirm that this Installation Plan is approved for installation and that the installation can continue accordingly with the installation dates indicated prior to installation start date.



Ducting & Fibre Overview – Basement B1

Floating Instructions 7Way(1)
 Feeder Cable 01 (144F) – Blue Tube 7Way(1) 12/10- Distribution Box 01-02
 Feeder Cable 02 (144F) – Orange Tube 7Way(1) 12/10- Distribution Box 03
 Feeder Cable 03 (144F) – Green Tube 7Way(1) 12/10- Distribution Box 04-05
 Feeder Cable 04 (144F) – Brown Tube 7Way(1) 12/10- Distribution Box 06-07
 Feeder Cable 05 (72F) – Grey Tube 7Way(1) 12/10- Distribution Box 08-09
 Feeder Cable 06 (144F) – White Tube 7Way(1) 12/10- Distribution Box 10-11
 Red Tube 7Way(1) 12/10- SPARE DUCT

Floating Instructions 7Way(2)
 Feeder Cable 07 (144F) – Blue Tube 7Way(2) 12/10- Distribution Box 12-13
 Feeder Cable 08 (144F) – Orange Tube 7Way(2) 12/10- Distribution Box 14-15
 Feeder Cable 09 (144F) – Green Tube 7Way(2) 12/10- Distribution Box 16-17
 Feeder Cable 10 (144F) – Brown Tube 7Way(2) 12/10- Distribution Box 18-19
 Grey Tube 7Way(2) 12/10- SPARE DUCT
 White Tube 7Way(2) 12/10- SPARE DUCT
 Red Tube 7Way(2) 12/10- SPARE DUCT

NOTE:
25mm PVC CONDUIT CAST
IN SOFFIT. LIGHT FITTING
MOUNTED TO UNDER SIDE
OF SOFFIT

NOTE:
ALL P2000 MOUNTED @+3530 MEASURED TO THE BOTTOM

SOFFIT @+580mm AFFL

Install 2 x 7 Way 12/10 duct + 144F Cable from Meet Me Room
towards Riser Block B on existing cable tray route. DSTV
Fibre Link to be installed from Basement Level 01 Towards
Roof Top.

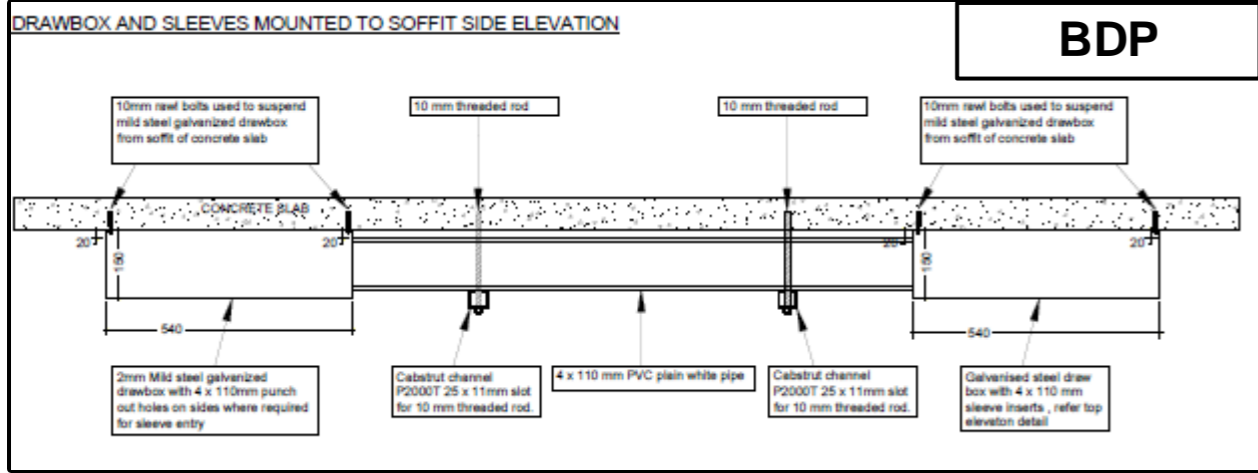
NOTE:
ALL P2000 MOUNTED @+3530 MEASURED TO THE BOTTOM

SOFFIT @+3480mm AFFL

NOTE:
25mm PVC CONDUIT CAST
IN SOFFIT. LIGHT FITTING
MOUNTED TO UNDER SIDE
OF SOFFIT

NOTE:
25mm PVC CONDUIT
CAST IN SOFFIT FOR

NOTE:
25mm PVC CONDUIT
CAST IN SOFFIT FOR HVAC



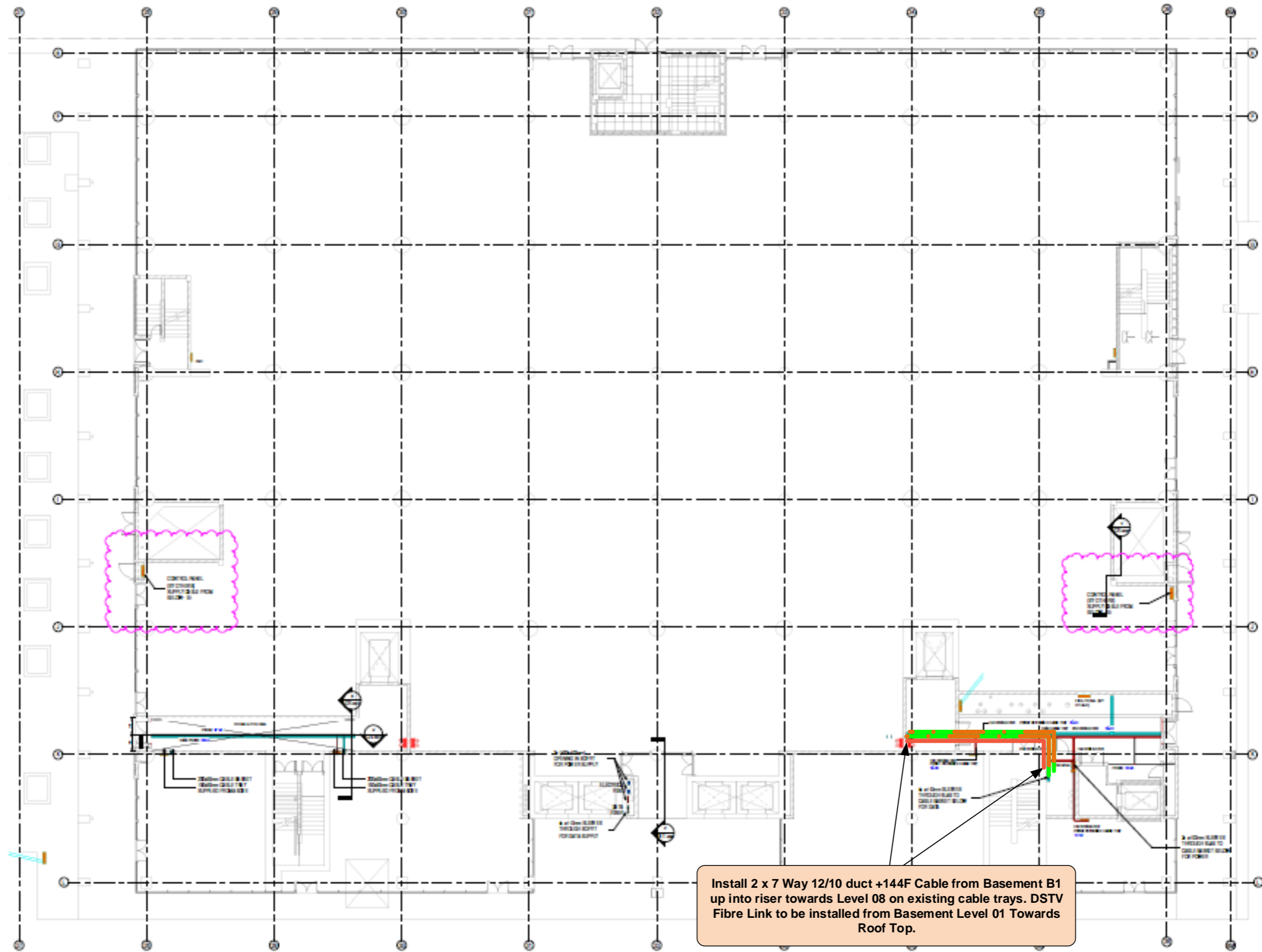
Colour Legend

	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F		
	Existing Draw Box		DSTV Fibre Link		144F Micro Cable		



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 Rev: 001
 Date: 18/10/2021

Ducting & Fibre Overview – LEVEL 00



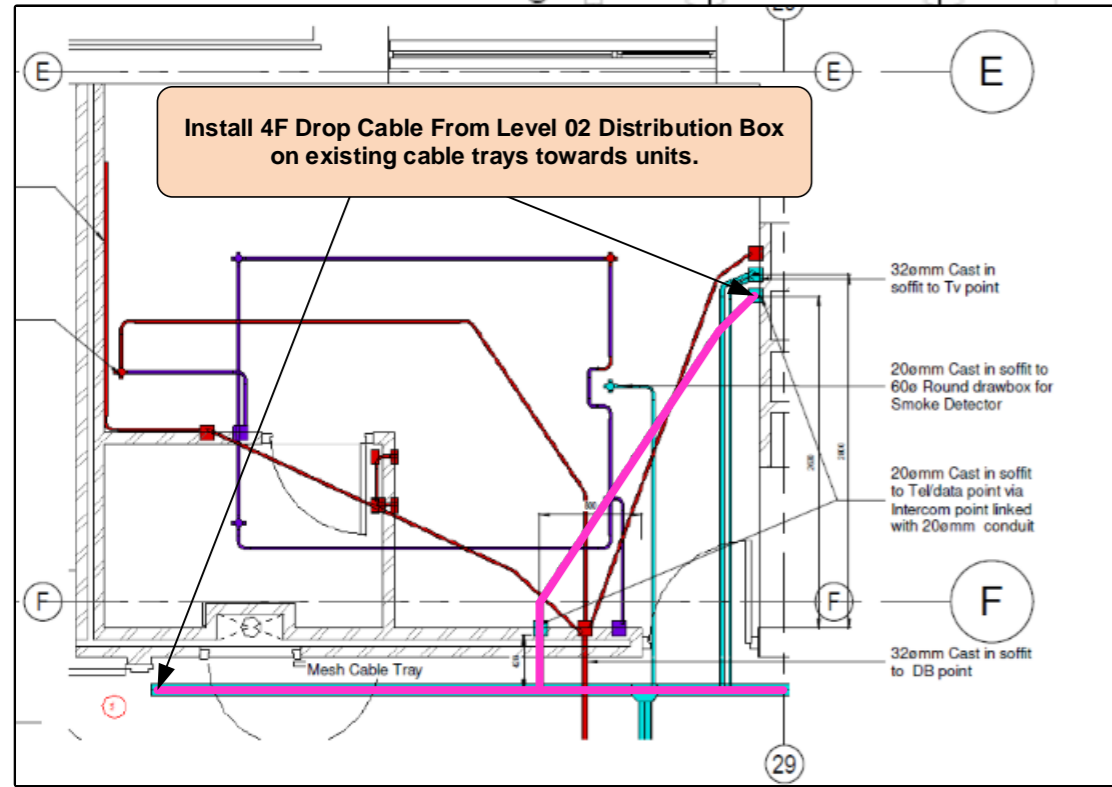
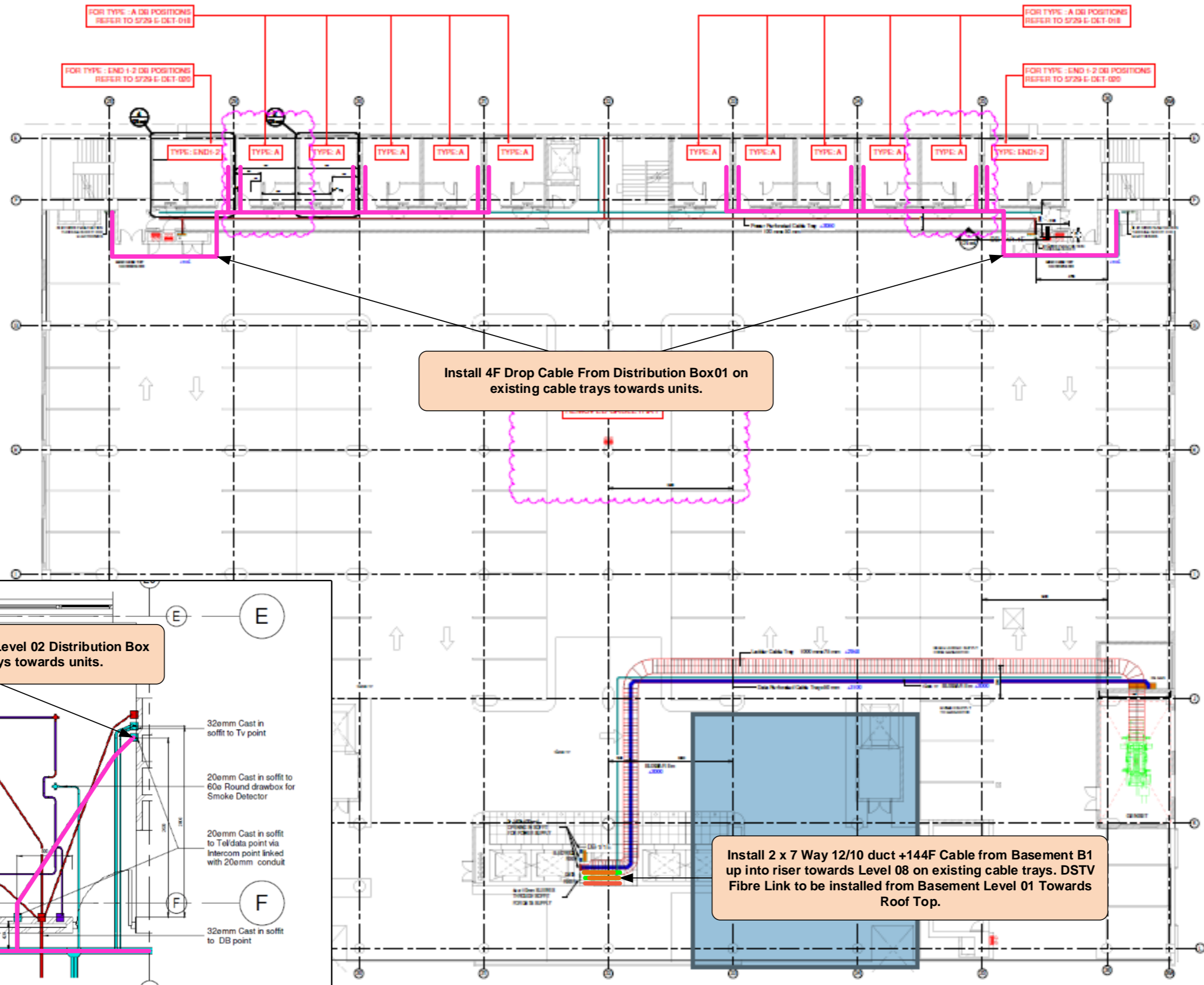
Colour Legend

	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F		
	Existing Draw Box		DSTV Fibre Link		144F Micro Cable		



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Ducting & Fibre Overview – LEVEL 01

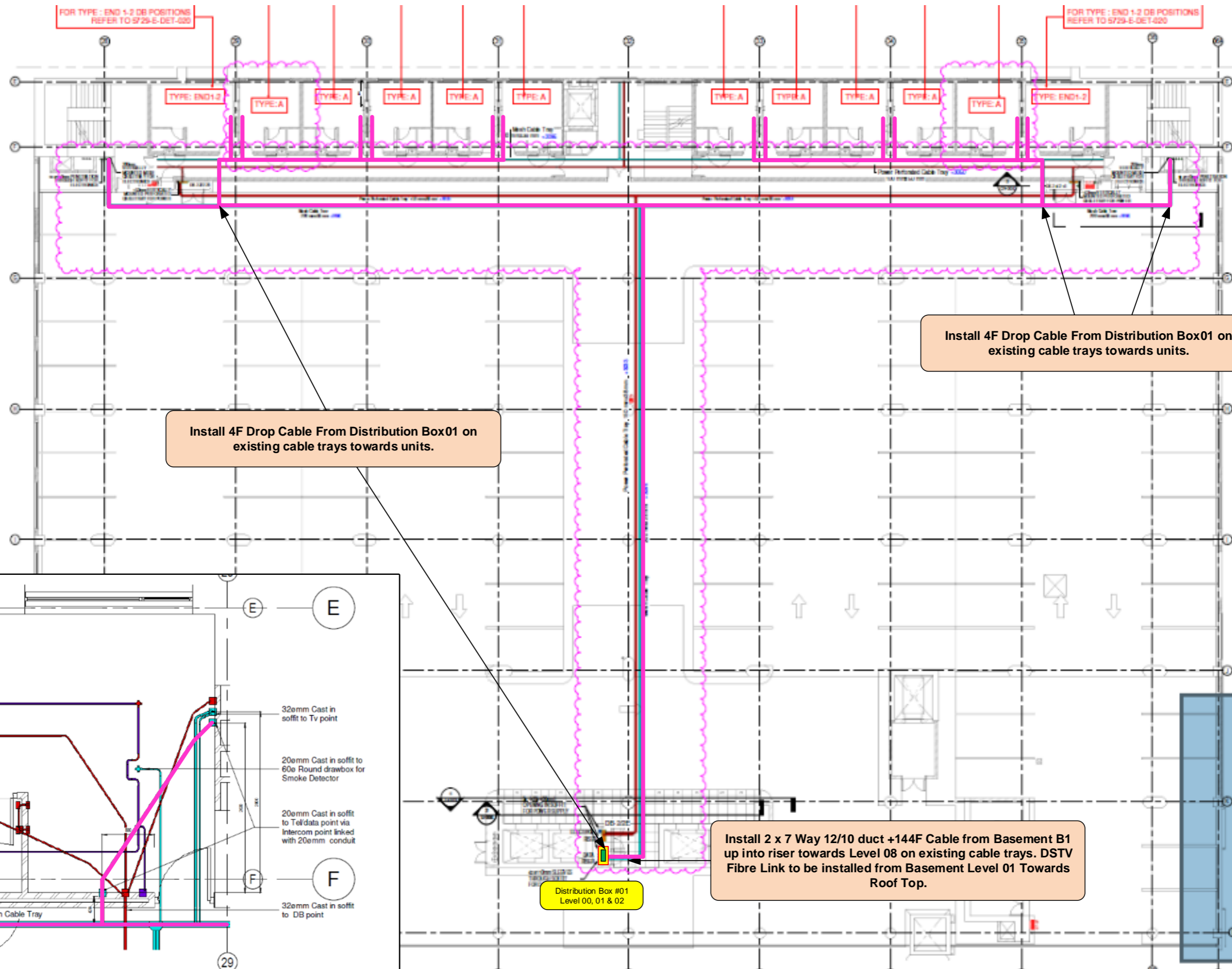


Colour Legend

42U	New 42U Cabinet	■	Existing Riser	—	Proposed 7 Way 12/10	—	4F Drop Cables Inside existing conduit towards unit TP's
 	New Core Box	●	DSTV Satellite Dish & Equipment	—	Proposed 7 Way 12/10 + 144F	—	144F Micro Cable
 	Existing Draw Box	—	DSTV Fibre Link				



Ducting & Fibre Overview – LEVEL 02

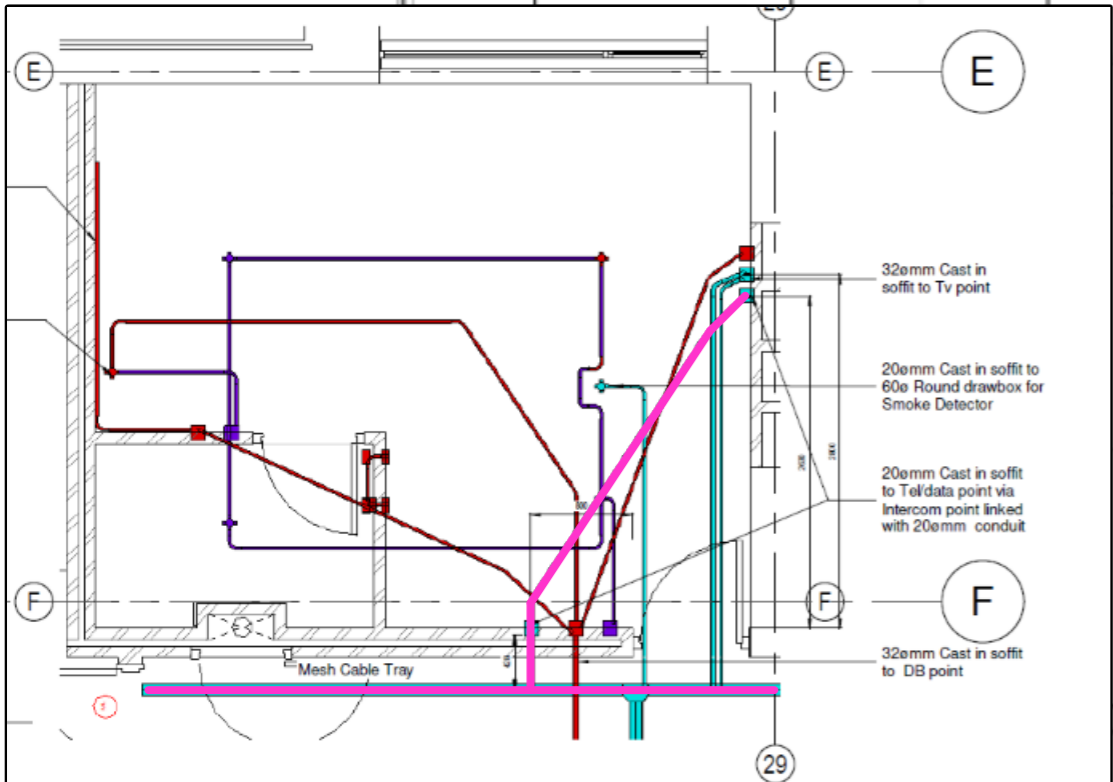


Install 4F Drop Cable From Distribution Box01 on existing cable trays towards units.

Install 4F Drop Cable From Distribution Box01 on existing cable trays towards units.

Install 2 x 7 Way 12/10 duct +144F Cable from Basement B1 up into riser towards Level 08 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

Distribution Box #01 Level 00, 01 & 02



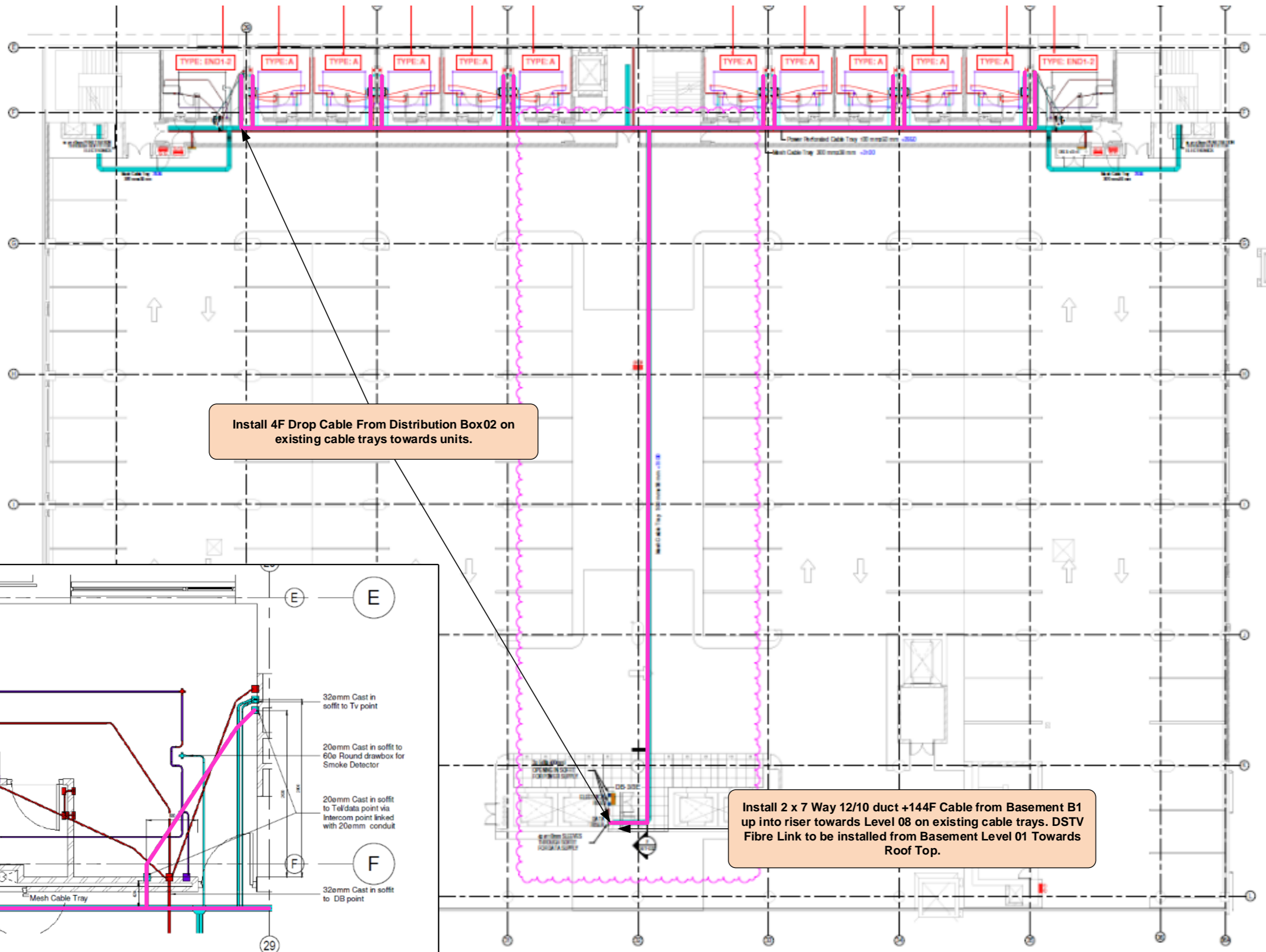
Colour Legend

42U	New 42U Cabinet	■	Existing Riser	●	Proposed 7 Way 12/10	—	4F Drop Cables Inside existing conduit towards unit TP's
 	New Core Box	●	DSTV Satellite Dish & Equipment	—	Proposed 7 Way 12/10 + 144F		
 	Existing Draw Box	—	DSTV Fibre Link	—	144F Micro Cable		



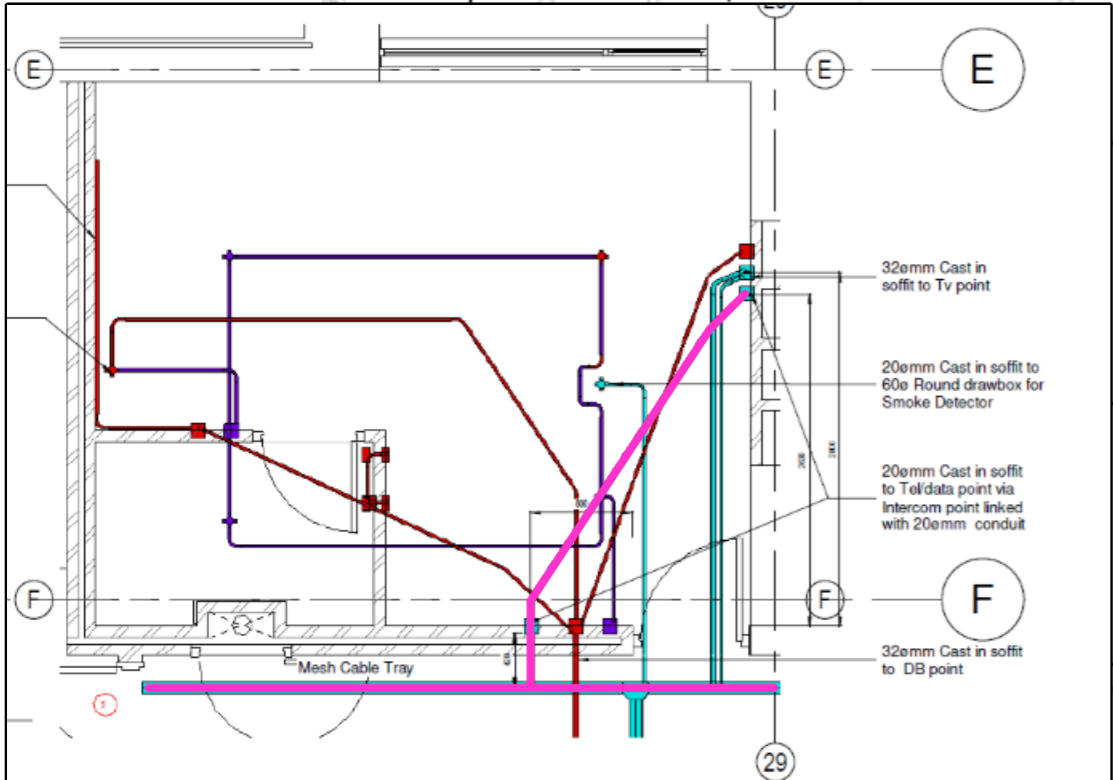
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Ducting & Fibre Overview – LEVEL 03



Install 4F Drop Cable From Distribution Box02 on existing cable trays towards units.

Install 2 x 7 Way 12/10 duct +144F Cable from Basement B1 up into riser towards Level 08 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.



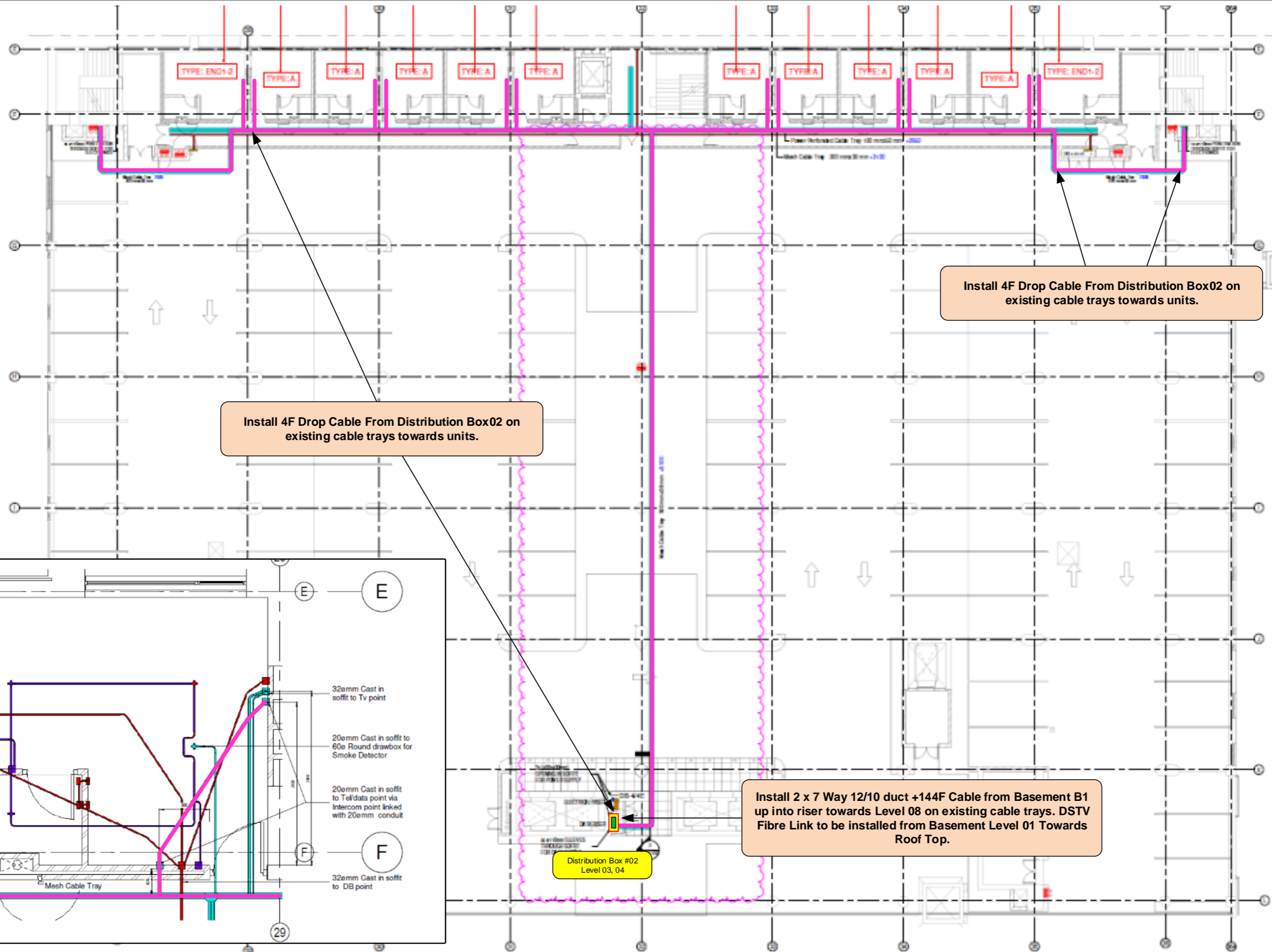
Colour Legend

42U	New 42U Cabinet	■	Existing Riser	—	Proposed 7 Way 12/10	—	4F Drop Cables Inside existing conduit towards unit TP's
 	New Core Box	●	DSTV Satellite Dish & Equipment	—	Proposed 7 Way 12/10 + 144F	—	144F Micro Cable
 	Existing Draw Box	—	DSTV Fibre Link				



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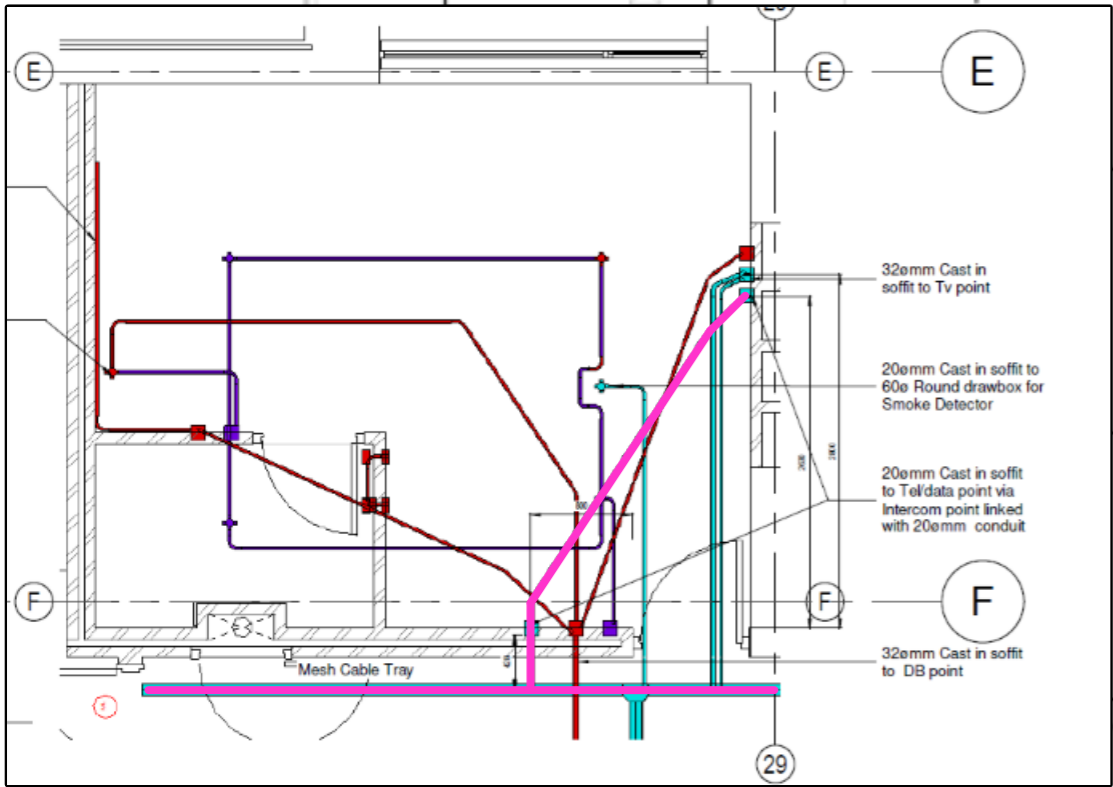
Ducting & Fibre Overview – LEVEL 04



Install 4F Drop Cable From Distribution Box02 on existing cable trays towards units.

Install 4F Drop Cable From Distribution Box02 on existing cable trays towards units.

Install 2 x 7 Way 12/10 duct +144F Cable from Basement B1 up into riser towards Level 08 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.



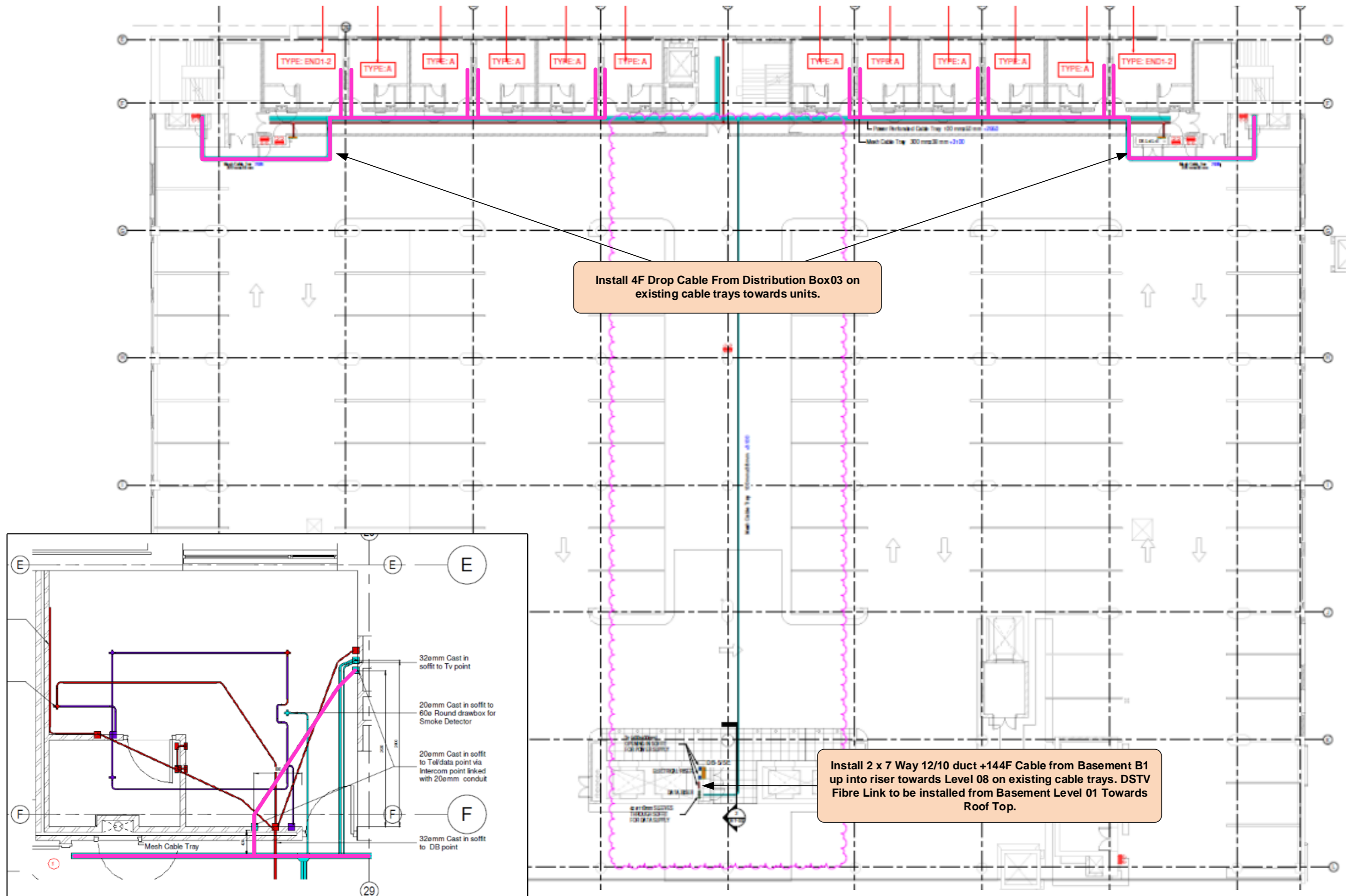
Colour Legend

	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F		
	Existing Draw Box		DSTV Fibre Link		144F Micro Cable		



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Ducting & Fibre Overview – LEVEL 05



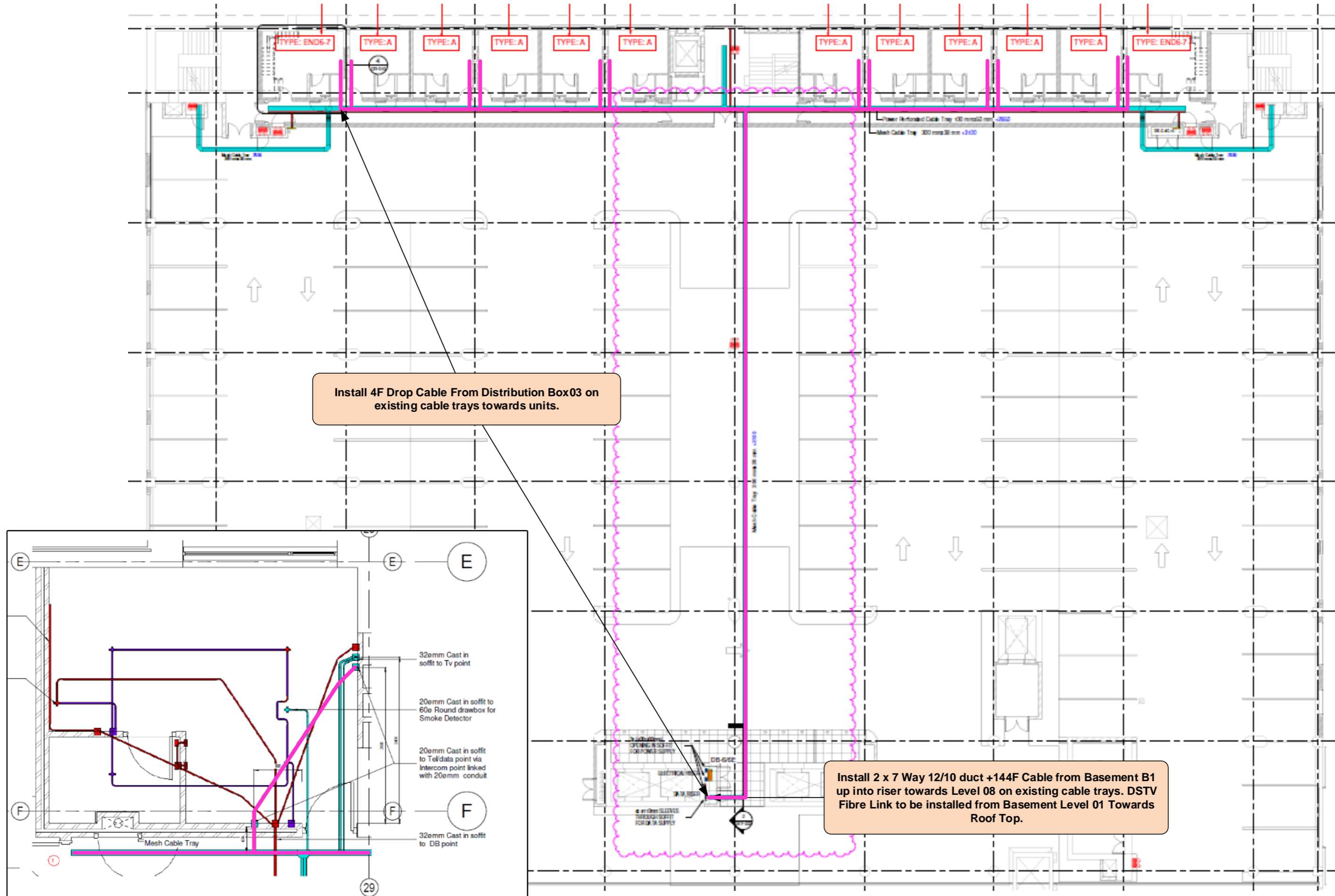
Colour Legend

42U	New 42U Cabinet	■	Existing Riser	●	Proposed 7 Way 12/10	—	4F Drop Cables Inside existing conduit towards unit TP's
 	New Core Box	●	DSTV Satellite Dish & Equipment	—	Proposed 7 Way 12/10 + 144F		
 	Existing Draw Box	—	DSTV Fibre Link	—	144F Micro Cable		



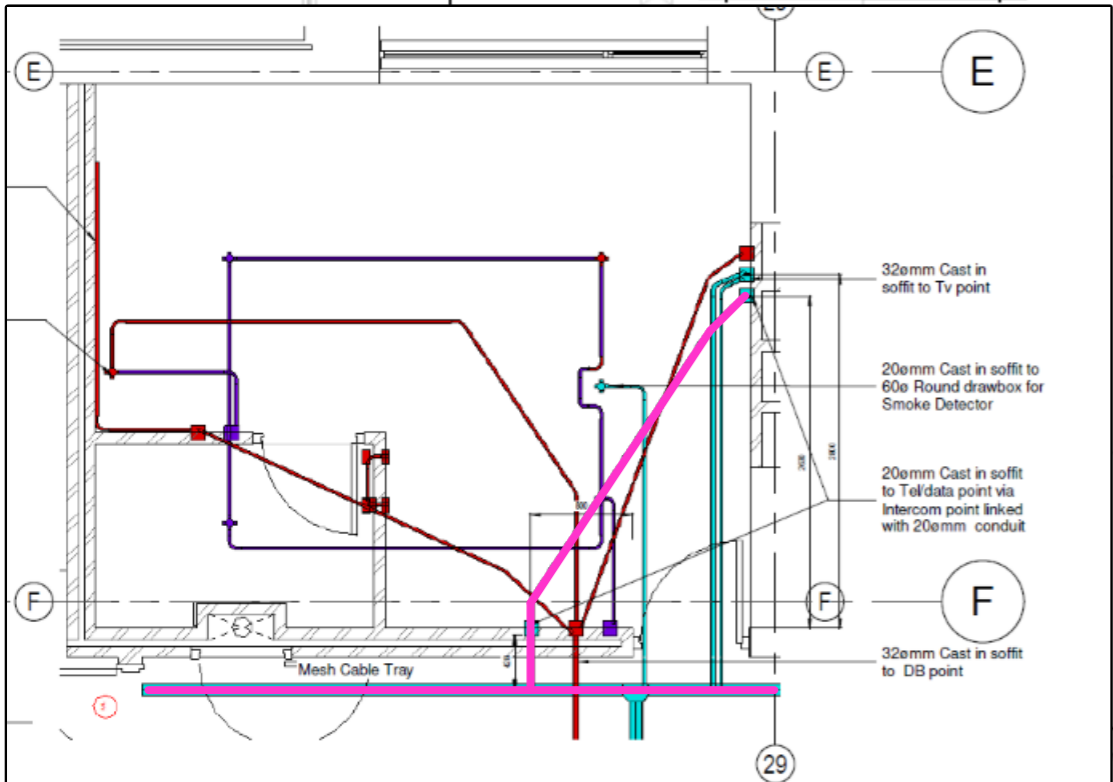
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Ducting & Fibre Overview – LEVEL 06



Install 4F Drop Cable From Distribution Box03 on existing cable trays towards units.

Install 2 x 7 Way 12/10 duct +144F Cable from Basement B1 up into riser towards Level 08 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

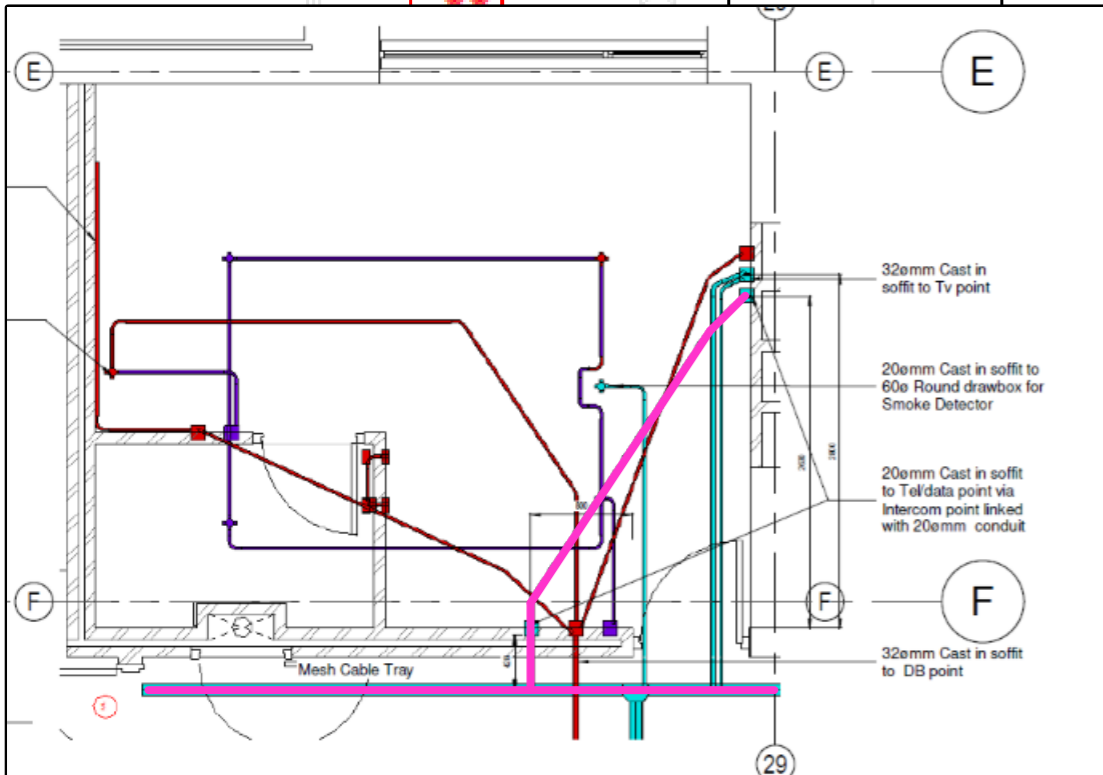
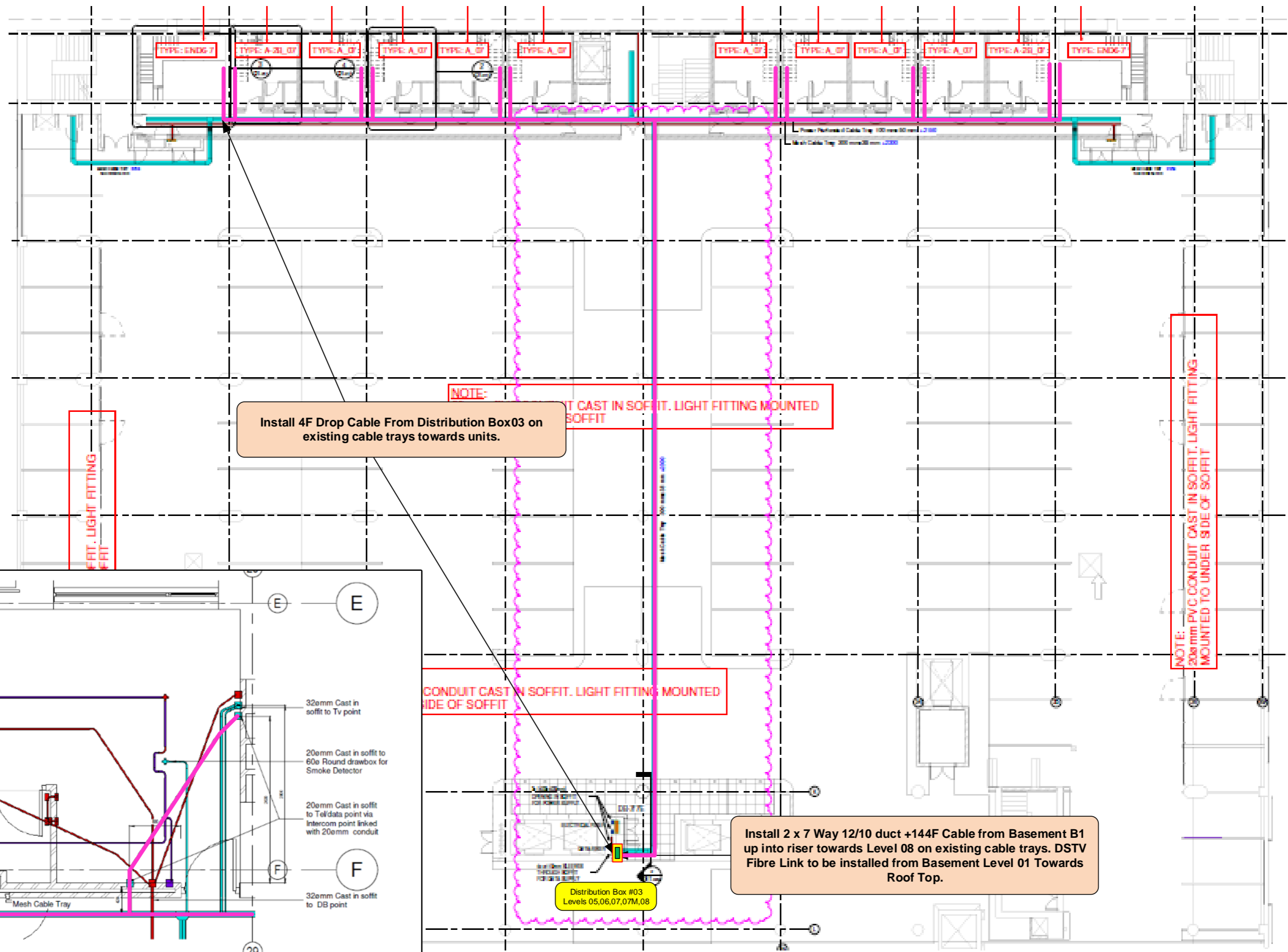


Colour Legend

	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F		
	Existing Draw Box		DSTV Fibre Link		144F Micro Cable		



Ducting & Fibre Overview – LEVEL 07

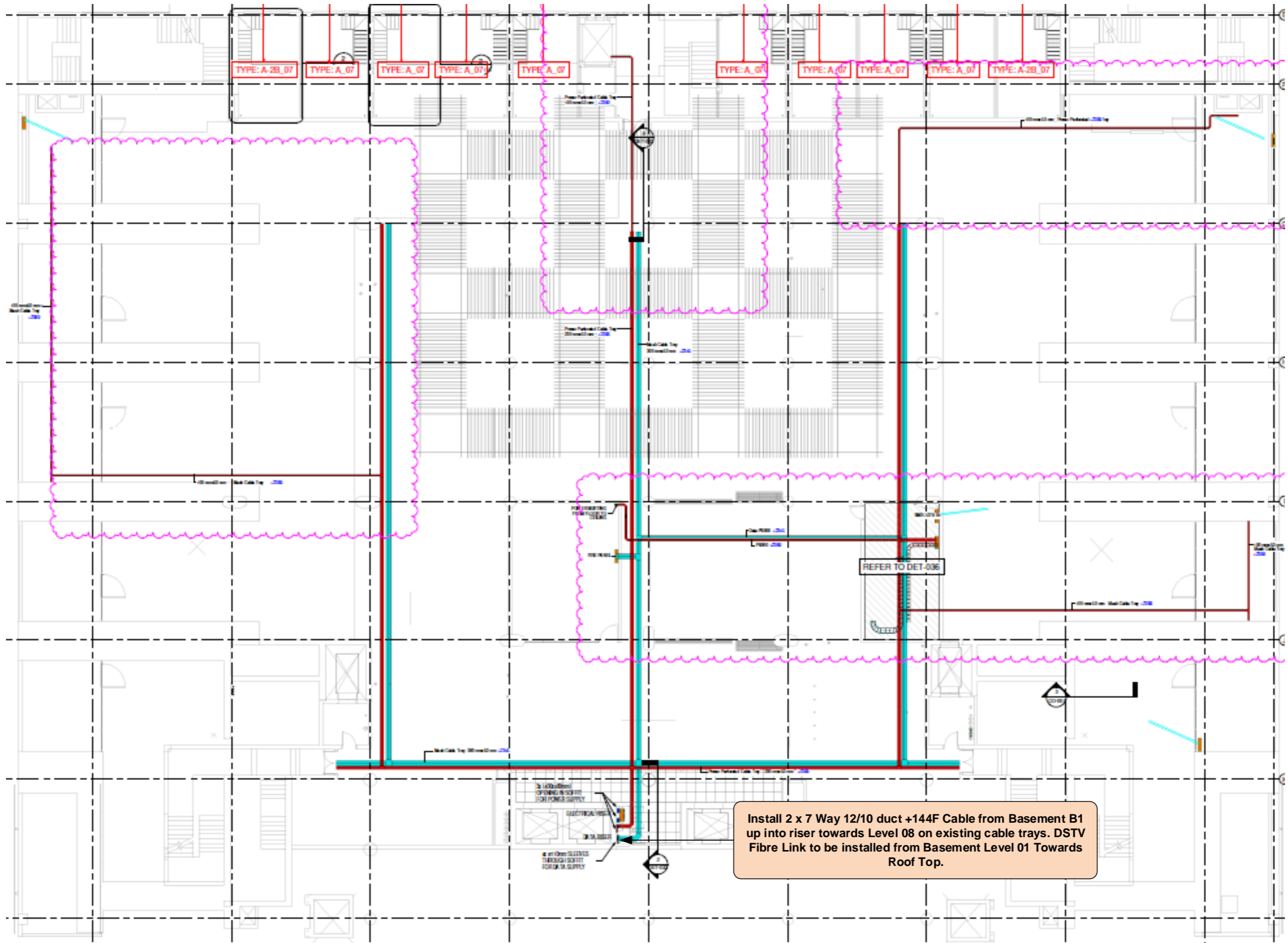


Colour Legend

42U	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F		
	Existing Draw Box		DSTV Fibre Link		144F Micro Cable		



Ducting & Fibre Overview – LEVEL 07M



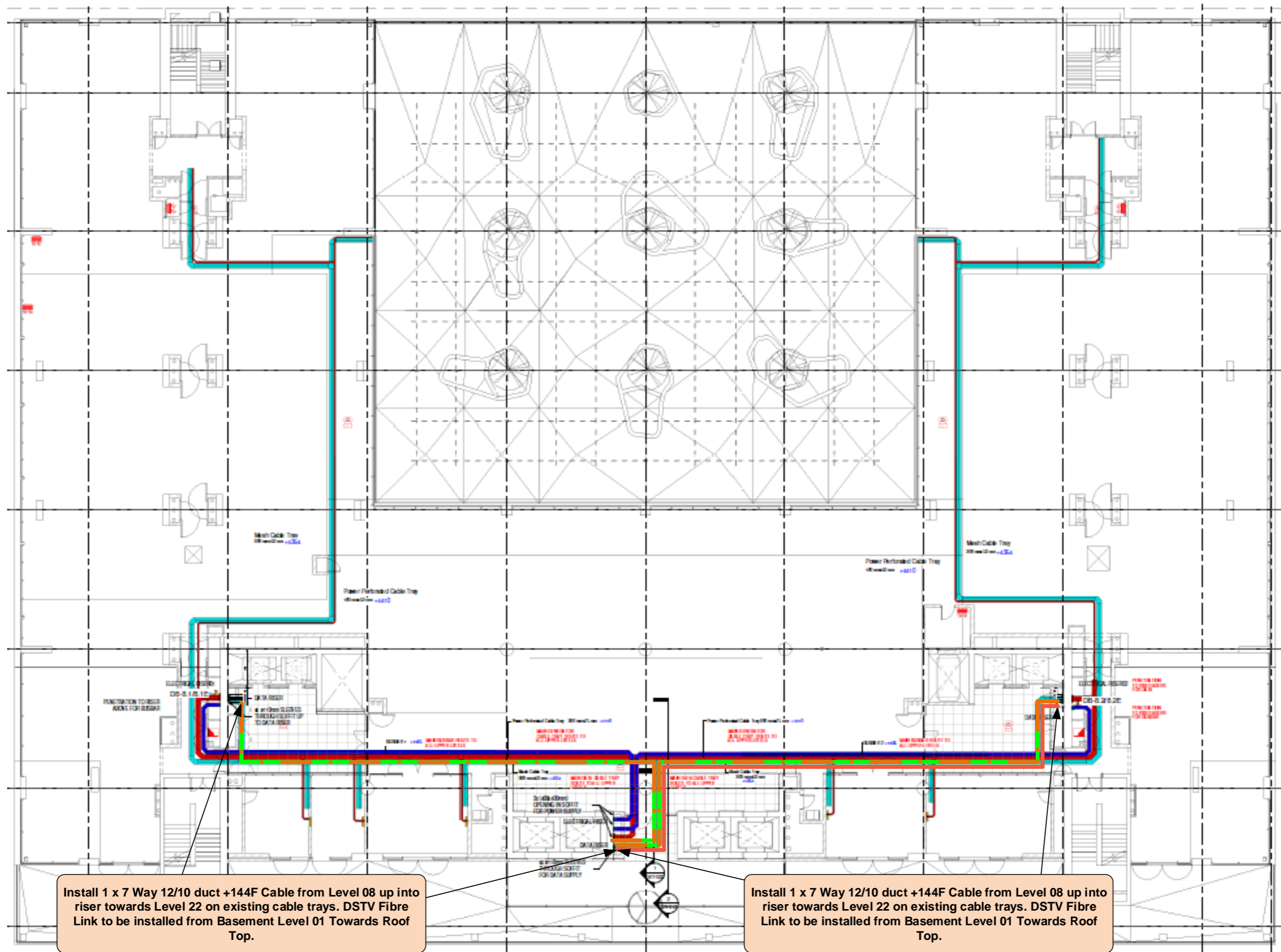
Install 2 x 7 Way 12/10 duct +144F Cable from Basement B1 up into riser towards Level 08 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

Colour Legend

42U	New 42U Cabinet	■	Existing Riser
 	New Core Box	●	DSTV Satellite Dish & Equipment
 	Existing Draw Box	—	DSTV Fibre Link
●	Proposed 7 Way 12/10	—	4F Drop Cables Inside existing conduit towards unit TP's
—	Proposed 7 Way 12/10 + 144F	—	144F Micro Cable



Ducting & Fibre Overview – LEVEL 08



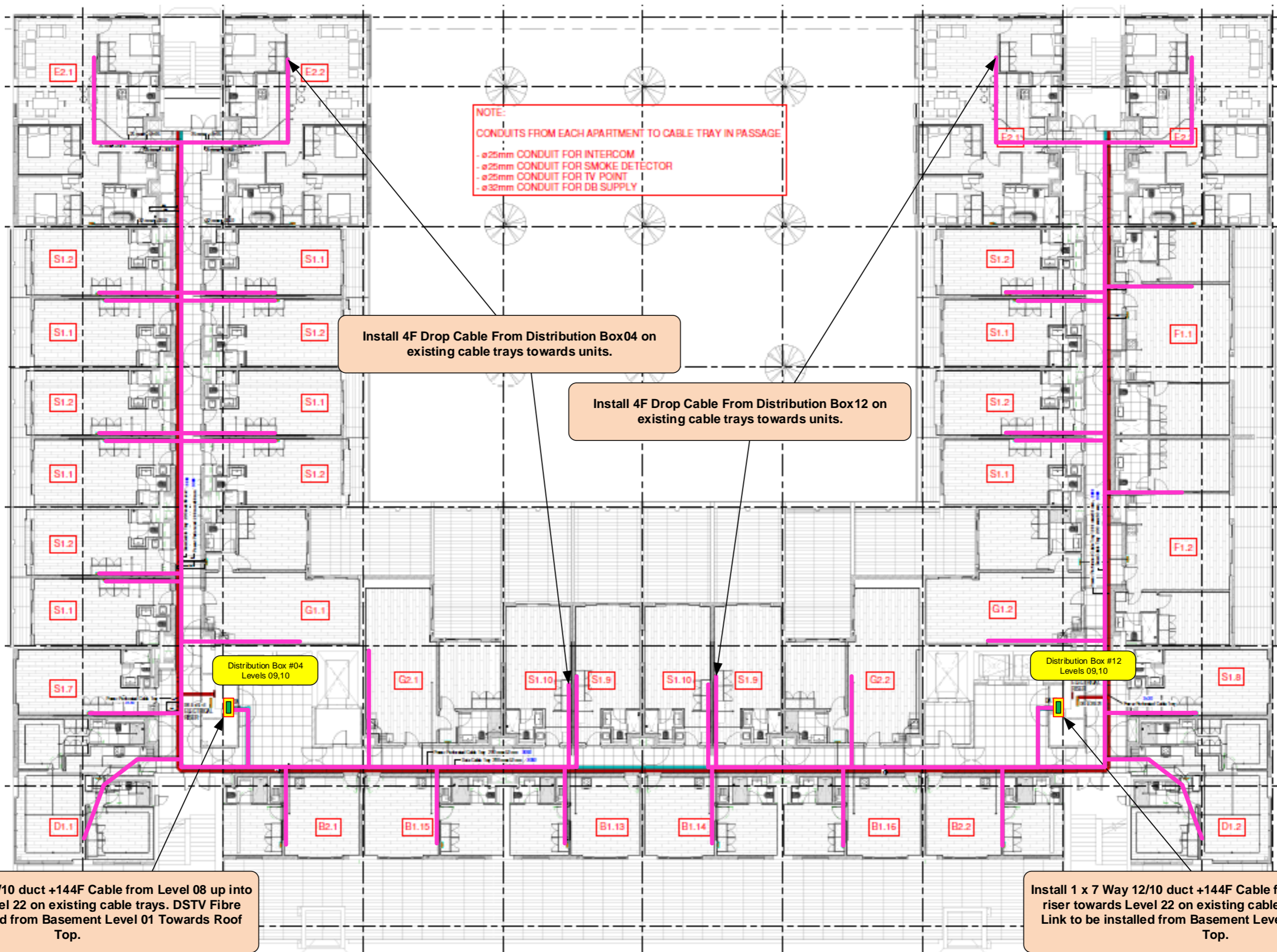
Colour Legend

	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F		
	Existing Draw Box		DSTV Fibre Link		144F Micro Cable		



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Ducting & Fibre Overview – LEVEL 09



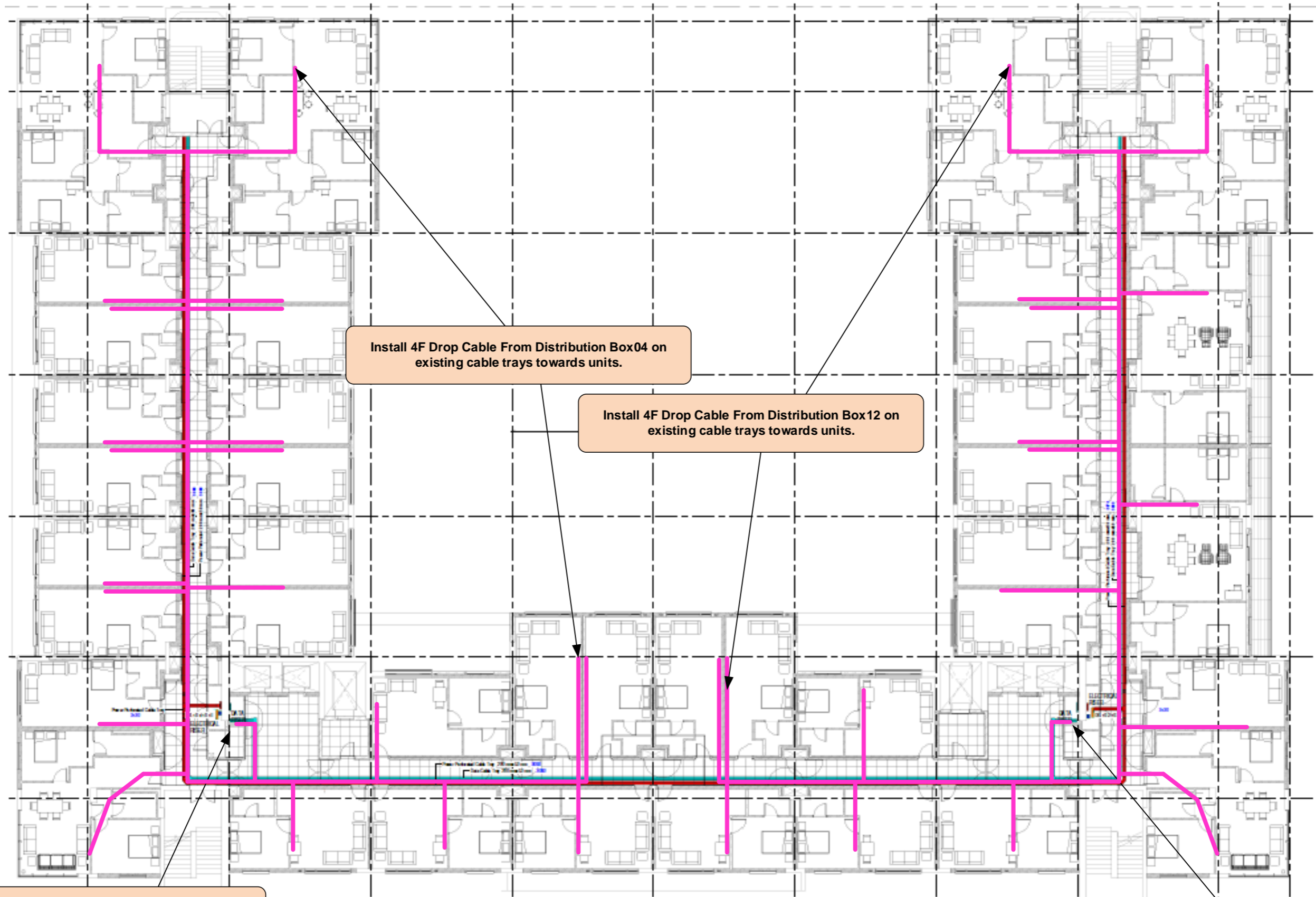
Colour Legend

42U	New 42U Cabinet	■	Existing Riser	●	Proposed 7 Way 12/10	—	4F Drop Cables Inside existing conduit towards unit TP's
■	New Core Box	●	DSTV Satellite Dish & Equipment	—	Proposed 7 Way 12/10 + 144F	—	144F Micro Cable
■	Existing Draw Box	—	DSTV Fibre Link				



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Ducting & Fibre Overview – LEVEL 10













Install 4F Drop Cable From Distribution Box04 on existing cable trays towards units.

Install 4F Drop Cable From Distribution Box12 on existing cable trays towards units.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

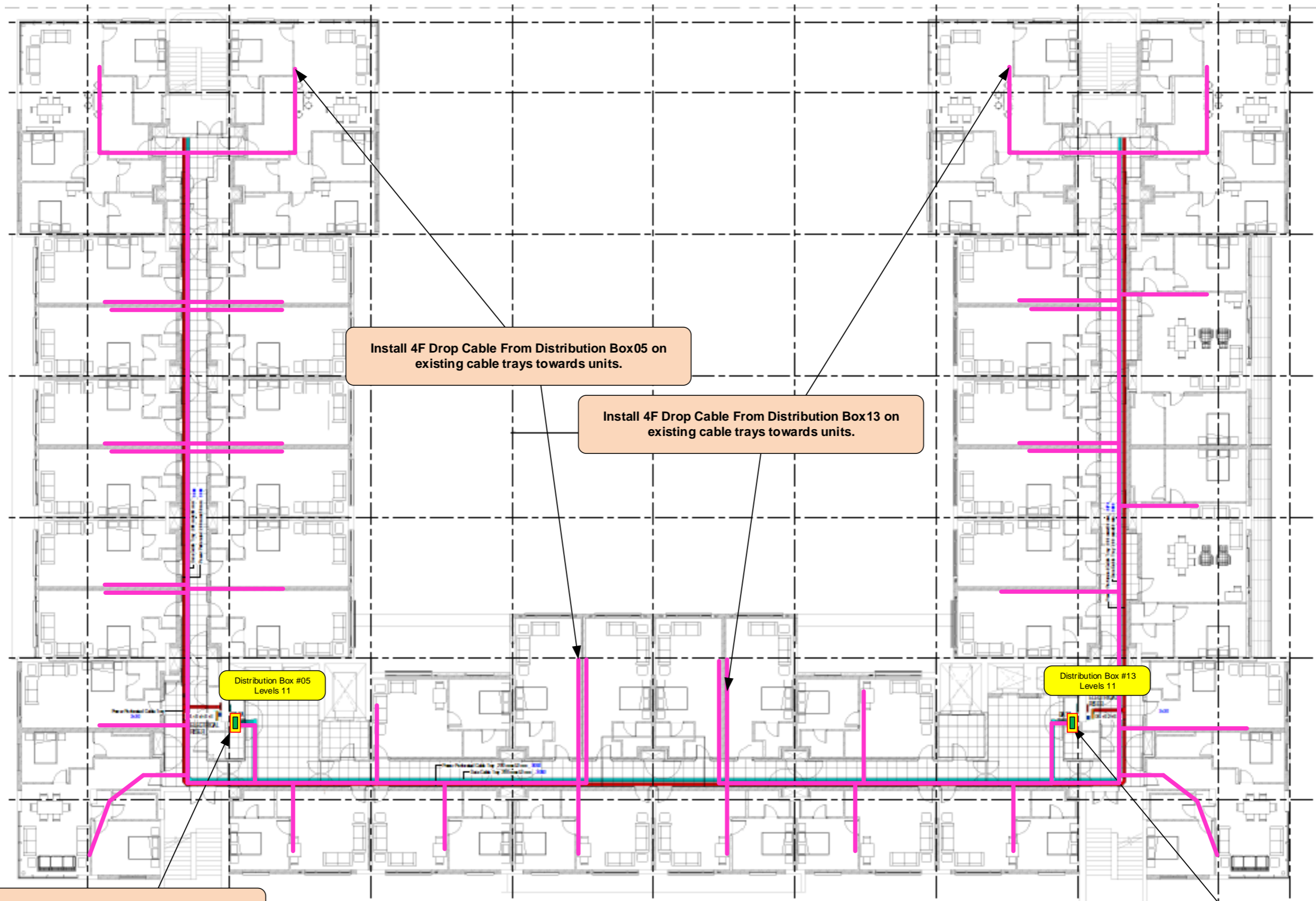
Colour Legend

	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F		144F Micro Cable
	Existing Draw Box		DSTV Fibre Link				



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Ducting & Fibre Overview – LEVEL 11



Install 4F Drop Cable From Distribution Box05 on existing cable trays towards units.

Install 4F Drop Cable From Distribution Box13 on existing cable trays towards units.

Distribution Box #05
Levels 11

Distribution Box #13
Levels 11

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

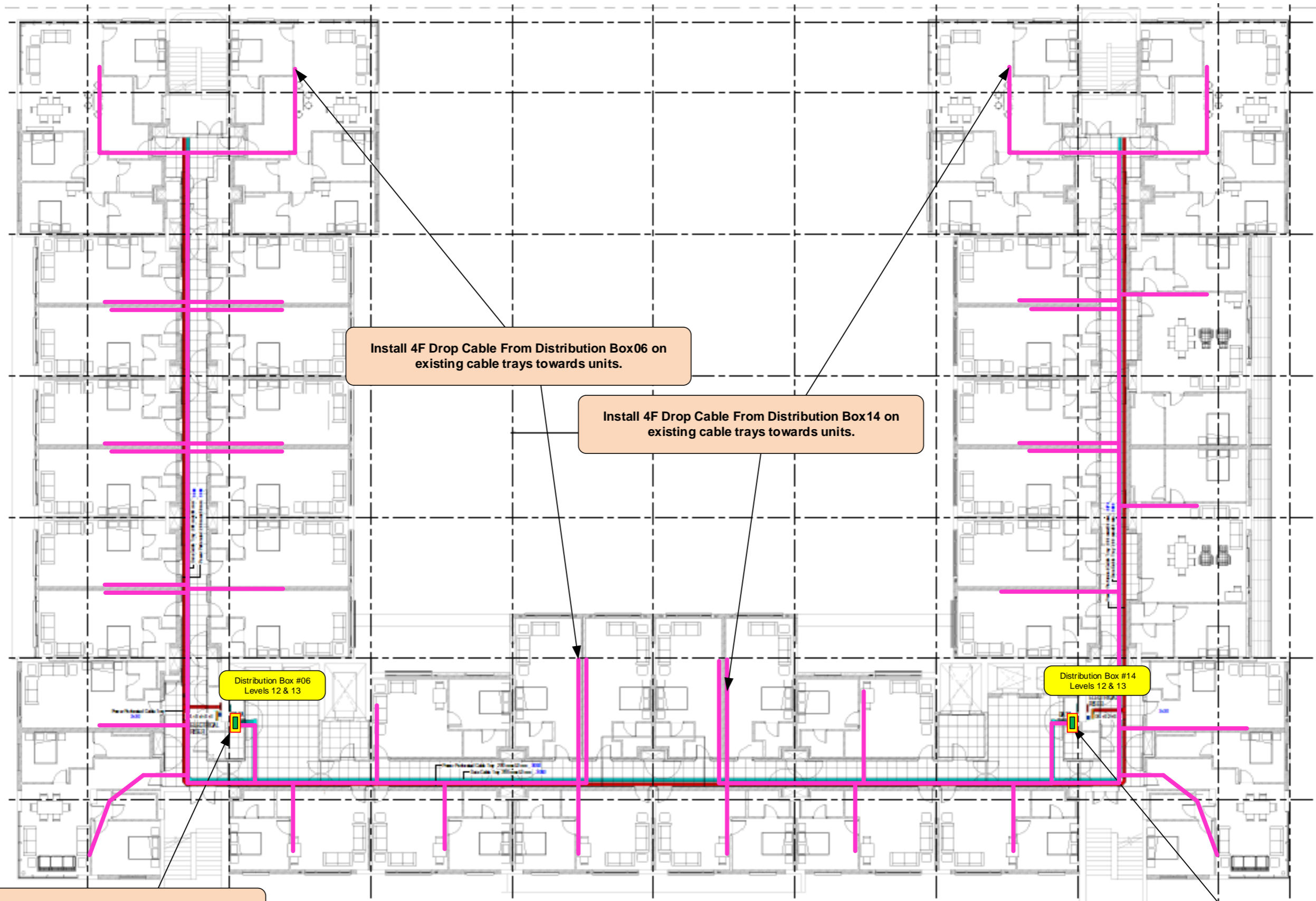
Colour Legend

42U	New 42U Cabinet	█	Existing Riser	—	Proposed 7 Way 12/10	—	4F Drop Cables Inside existing conduit towards unit TP's
 	New Core Box	●	DSTV Satellite Dish & Equipment	—	Proposed 7 Way 12/10 + 144F	—	144F Micro Cable
 	Existing Draw Box	—	DSTV Fibre Link				



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Ducting & Fibre Overview – LEVEL 12



Install 4F Drop Cable From Distribution Box#06 on existing cable trays towards units.

Install 4F Drop Cable From Distribution Box#14 on existing cable trays towards units.

Distribution Box #06
Levels 12 & 13

Distribution Box #14
Levels 12 & 13

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

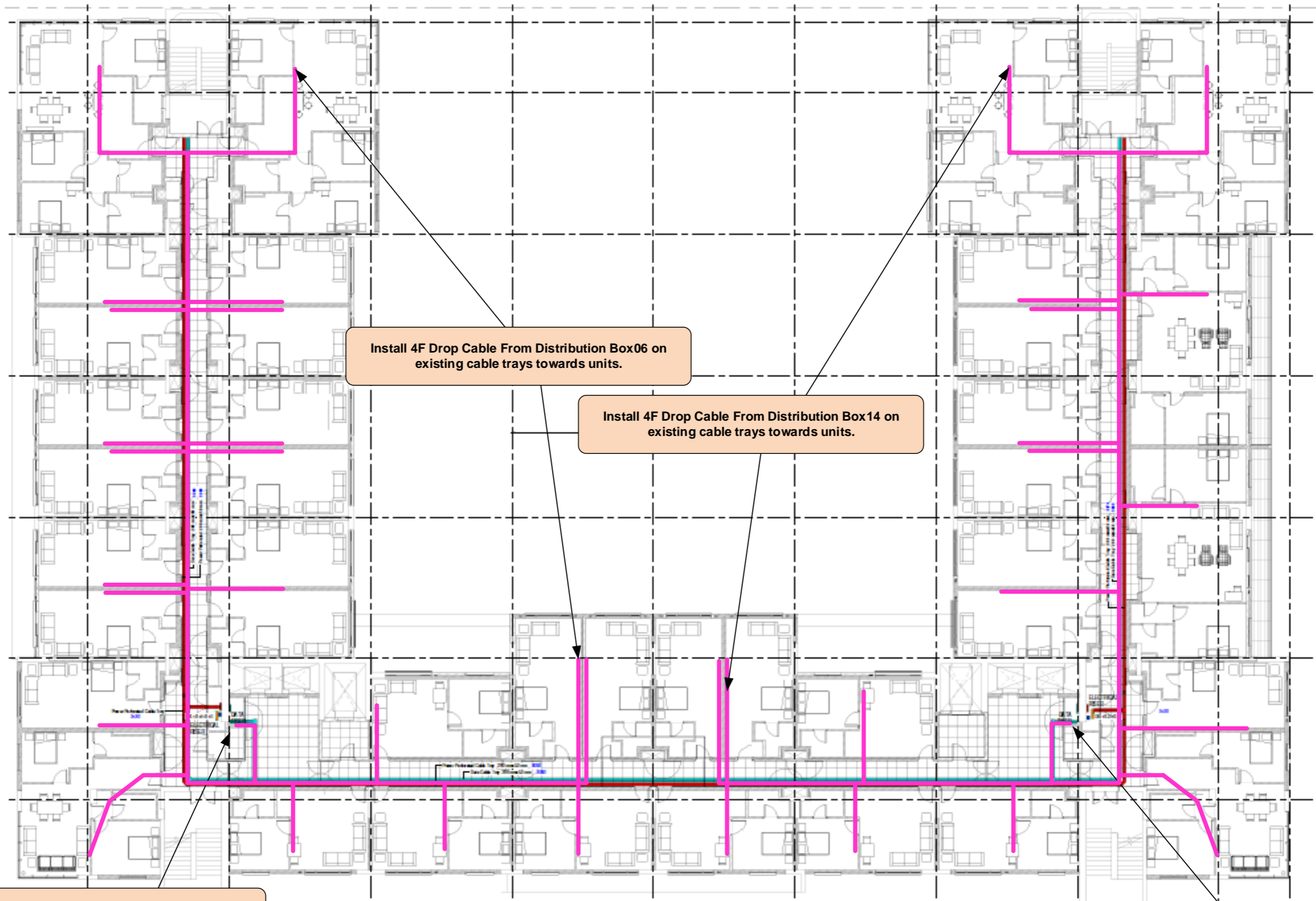
Colour Legend

	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F		
	Existing Draw Box		DSTV Fibre Link		144F Micro Cable		



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Ducting & Fibre Overview – LEVEL 13



Install 4F Drop Cable From Distribution Box06 on existing cable trays towards units.

Install 4F Drop Cable From Distribution Box14 on existing cable trays towards units.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

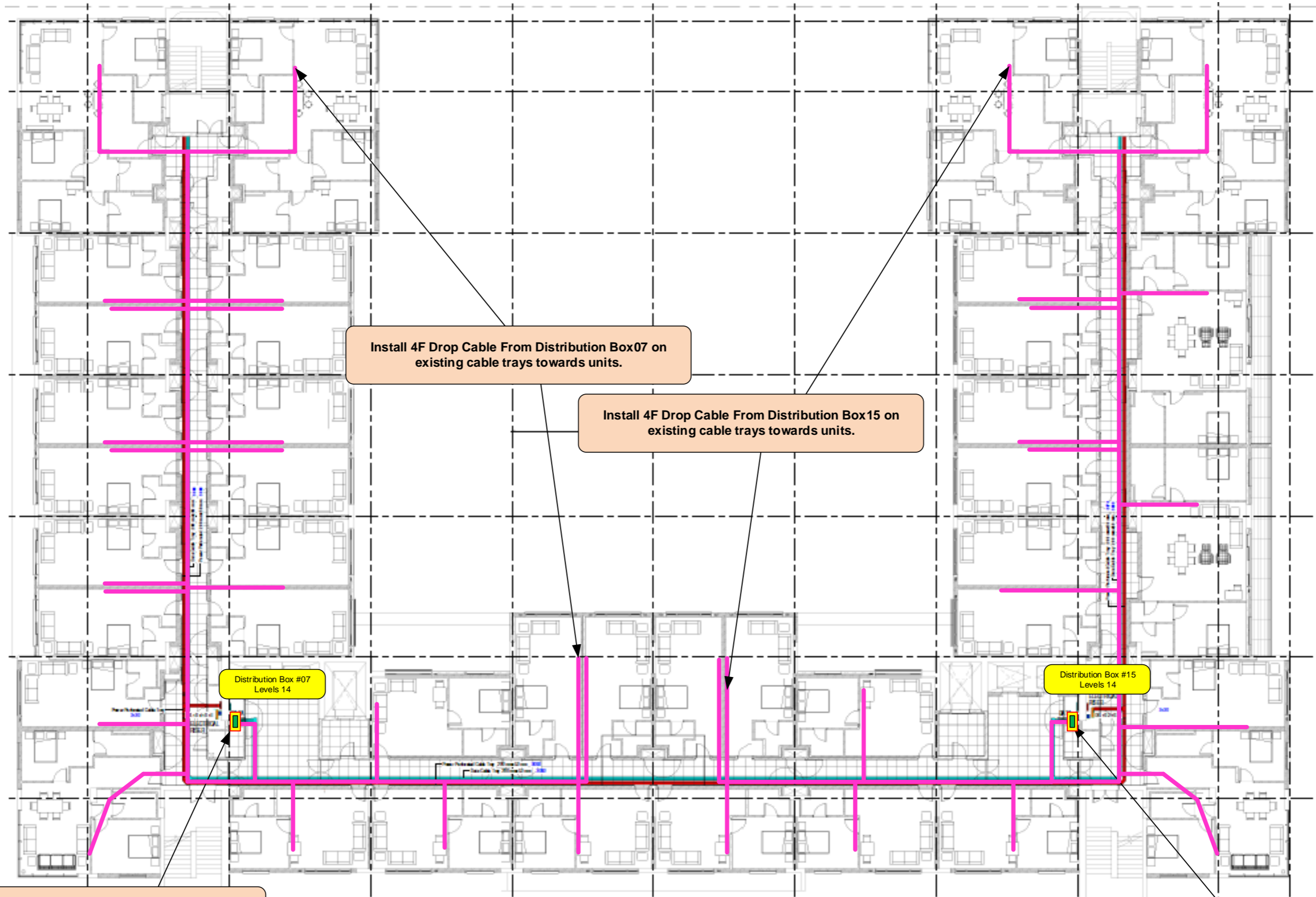
Colour Legend

42U	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F		
	Existing Draw Box		DSTV Fibre Link		144F Micro Cable		



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Ducting & Fibre Overview – LEVEL 14



Install 4F Drop Cable From Distribution Box07 on existing cable trays towards units.

Install 4F Drop Cable From Distribution Box15 on existing cable trays towards units.

Distribution Box #07
Levels 14

Distribution Box #15
Levels 14

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

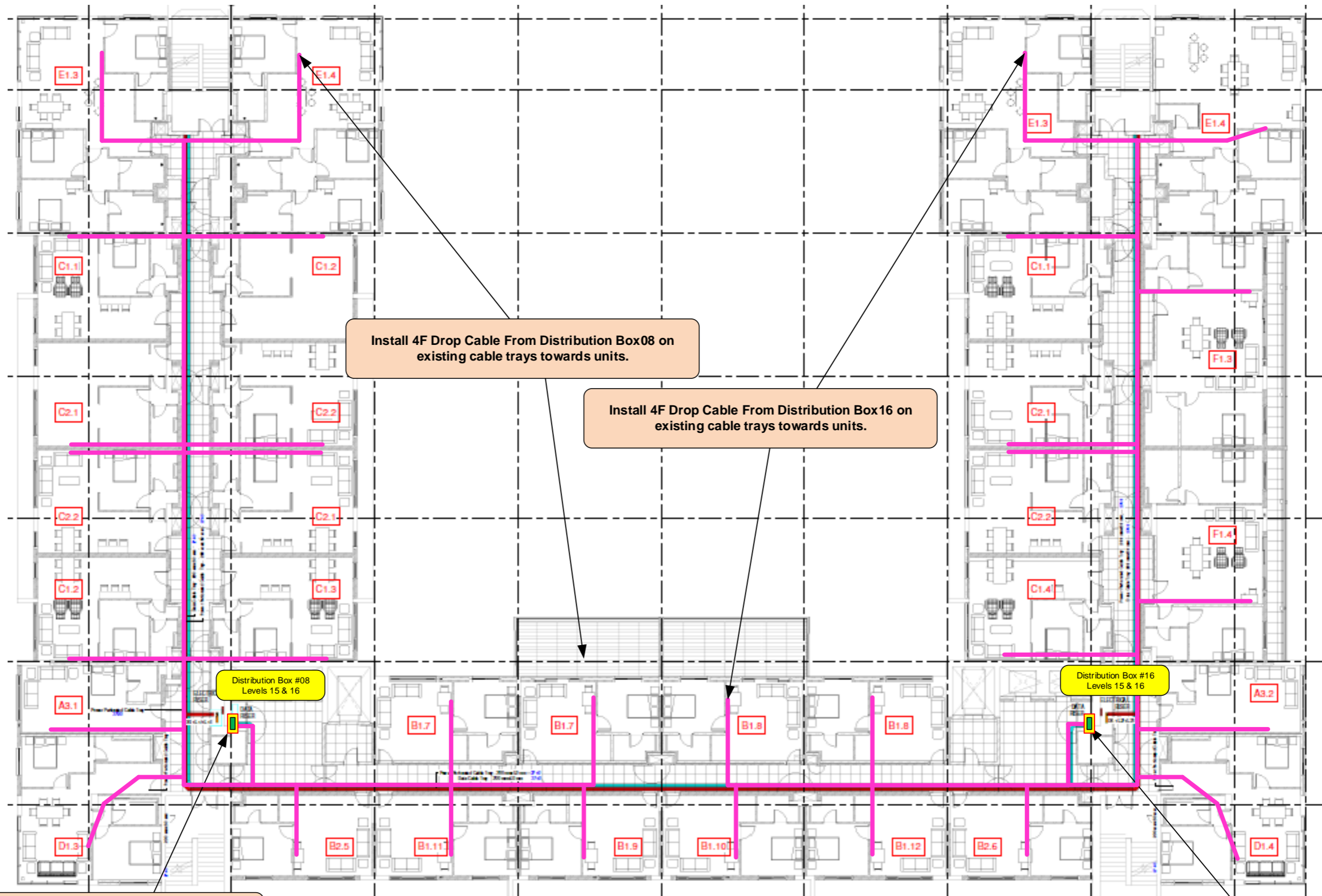
Colour Legend

	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F		
	Existing Draw Box		DSTV Fibre Link		144F Micro Cable		



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Ducting & Fibre Overview – LEVEL 15



Install 4F Drop Cable From Distribution Box08 on existing cable trays towards units.

Install 4F Drop Cable From Distribution Box16 on existing cable trays towards units.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

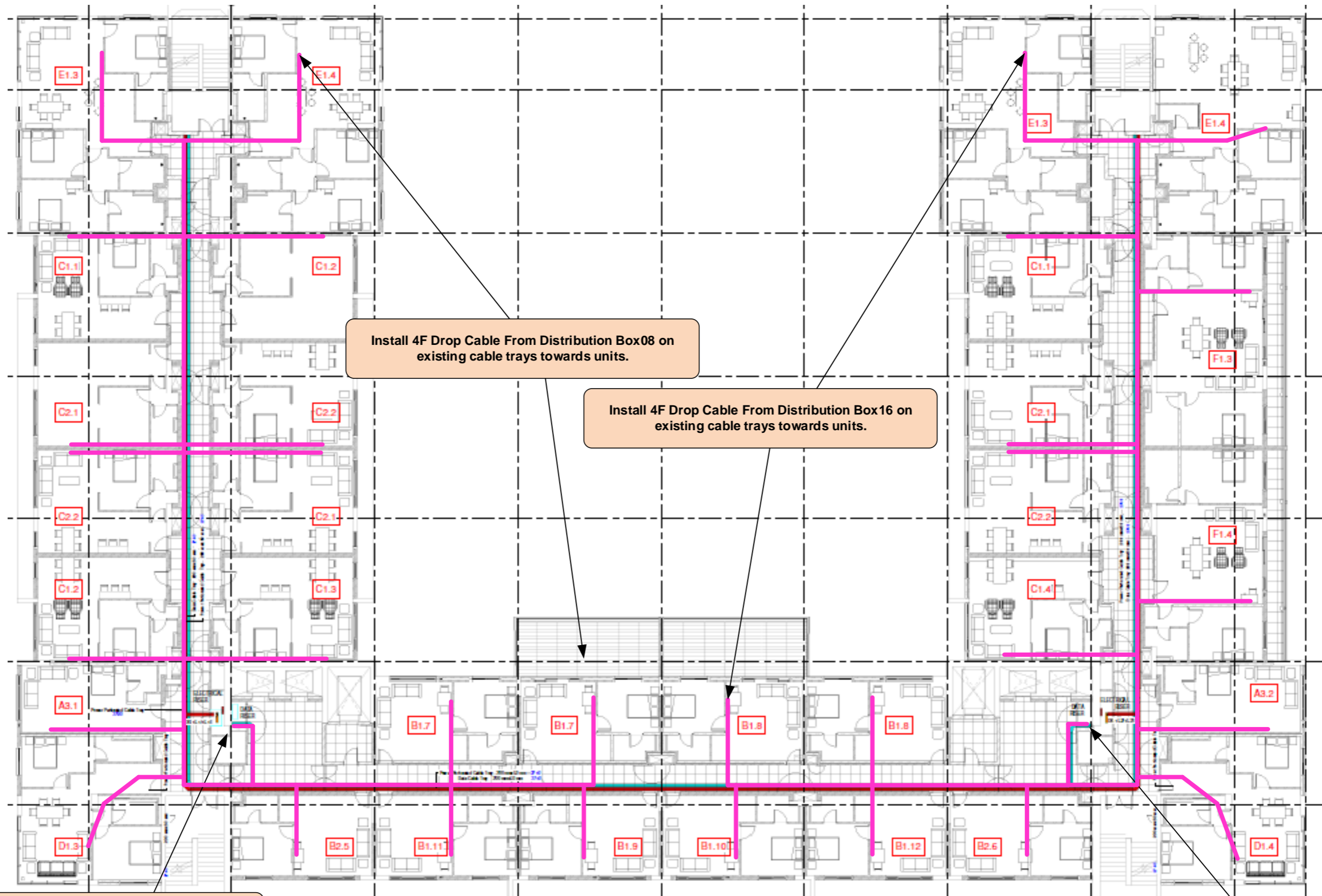
Colour Legend

42U	New 42U Cabinet	■	Existing Riser	—	Proposed 7 Way 12/10	—	4F Drop Cables Inside existing conduit towards unit TP's
■	New Core Box	●	DSTV Satellite Dish & Equipment	—	Proposed 7 Way 12/10 + 144F	—	144F Micro Cable
■	Existing Draw Box	—	DSTV Fibre Link				



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Ducting & Fibre Overview – LEVEL 16



Install 4F Drop Cable From Distribution Box08 on existing cable trays towards units.

Install 4F Drop Cable From Distribution Box16 on existing cable trays towards units.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

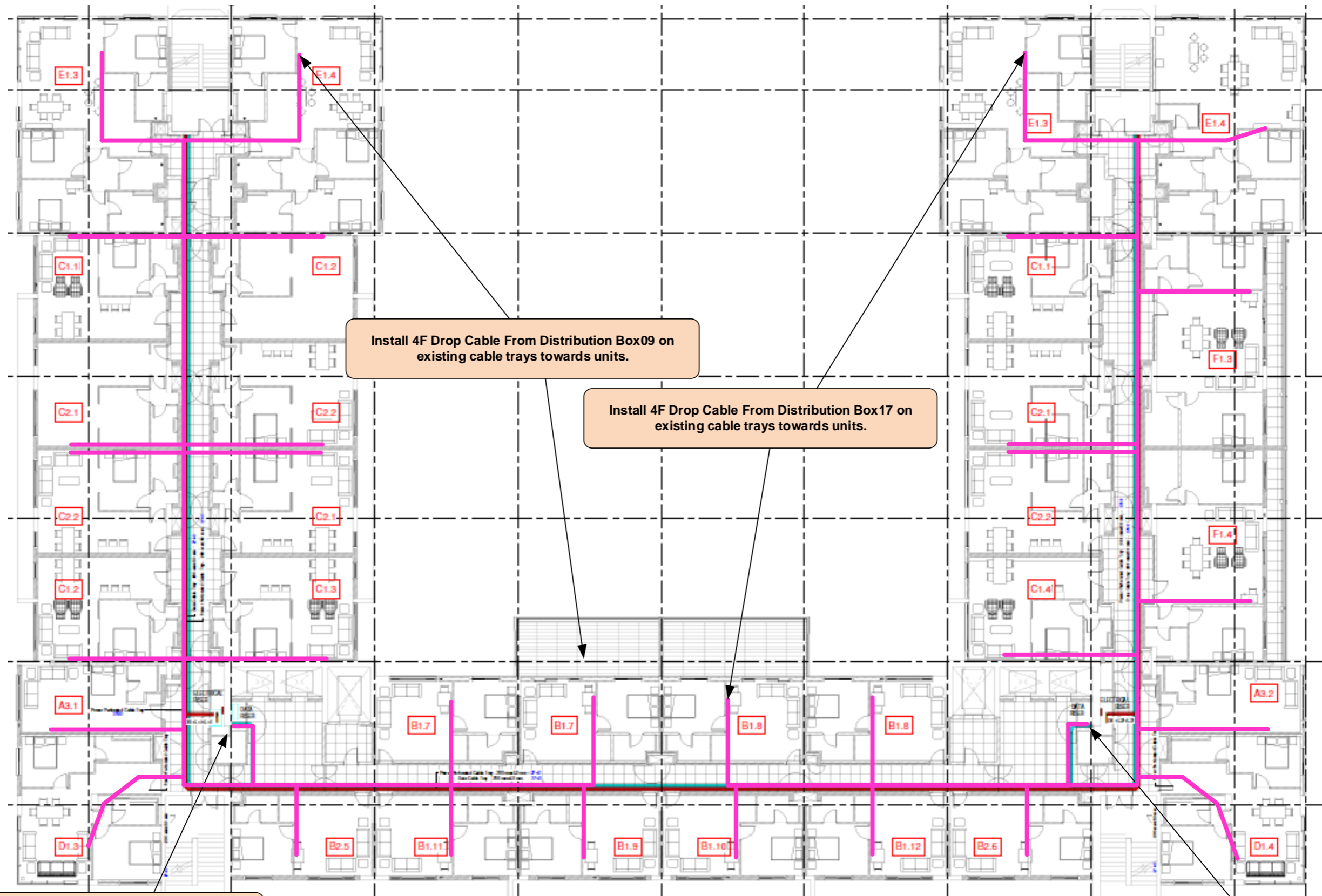
Colour Legend

	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F		
	Existing Draw Box		DSTV Fibre Link		144F Micro Cable		



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Ducting & Fibre Overview – LEVEL 17



Install 4F Drop Cable From Distribution Box09 on existing cable trays towards units.

Install 4F Drop Cable From Distribution Box17 on existing cable trays towards units.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

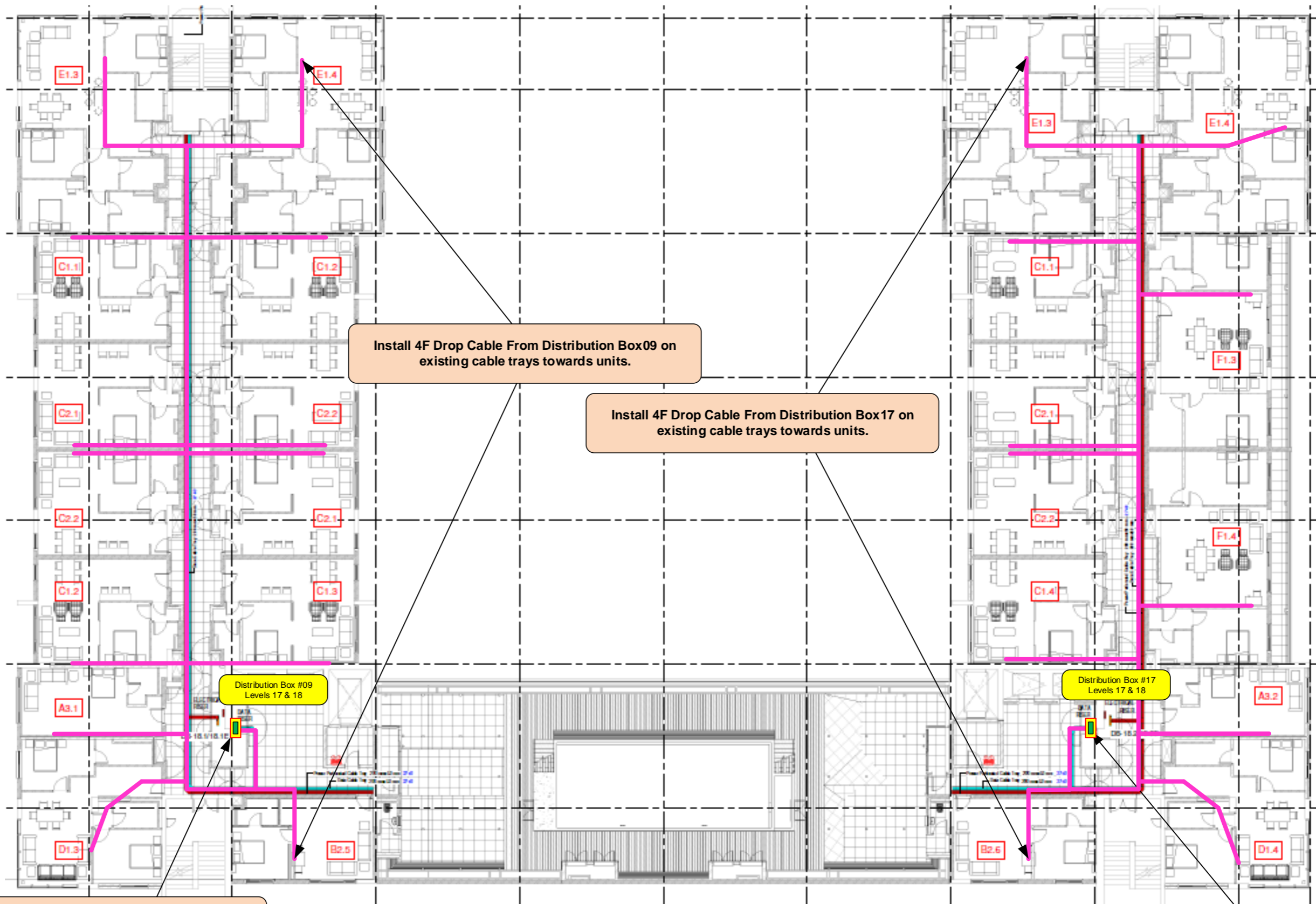
Colour Legend

42U	New 42U Cabinet	■	Existing Riser	—	Proposed 7 Way 12/10	—	4F Drop Cables Inside existing conduit towards unit TP's
 	New Core Box	●	DSTV Satellite Dish & Equipment	—	Proposed 7 Way 12/10 + 144F	—	144F Micro Cable
 	Existing Draw Box	—	DSTV Fibre Link				



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Ducting & Fibre Overview – LEVEL 18



Install 4F Drop Cable From Distribution Box09 on existing cable trays towards units.

Install 4F Drop Cable From Distribution Box17 on existing cable trays towards units.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

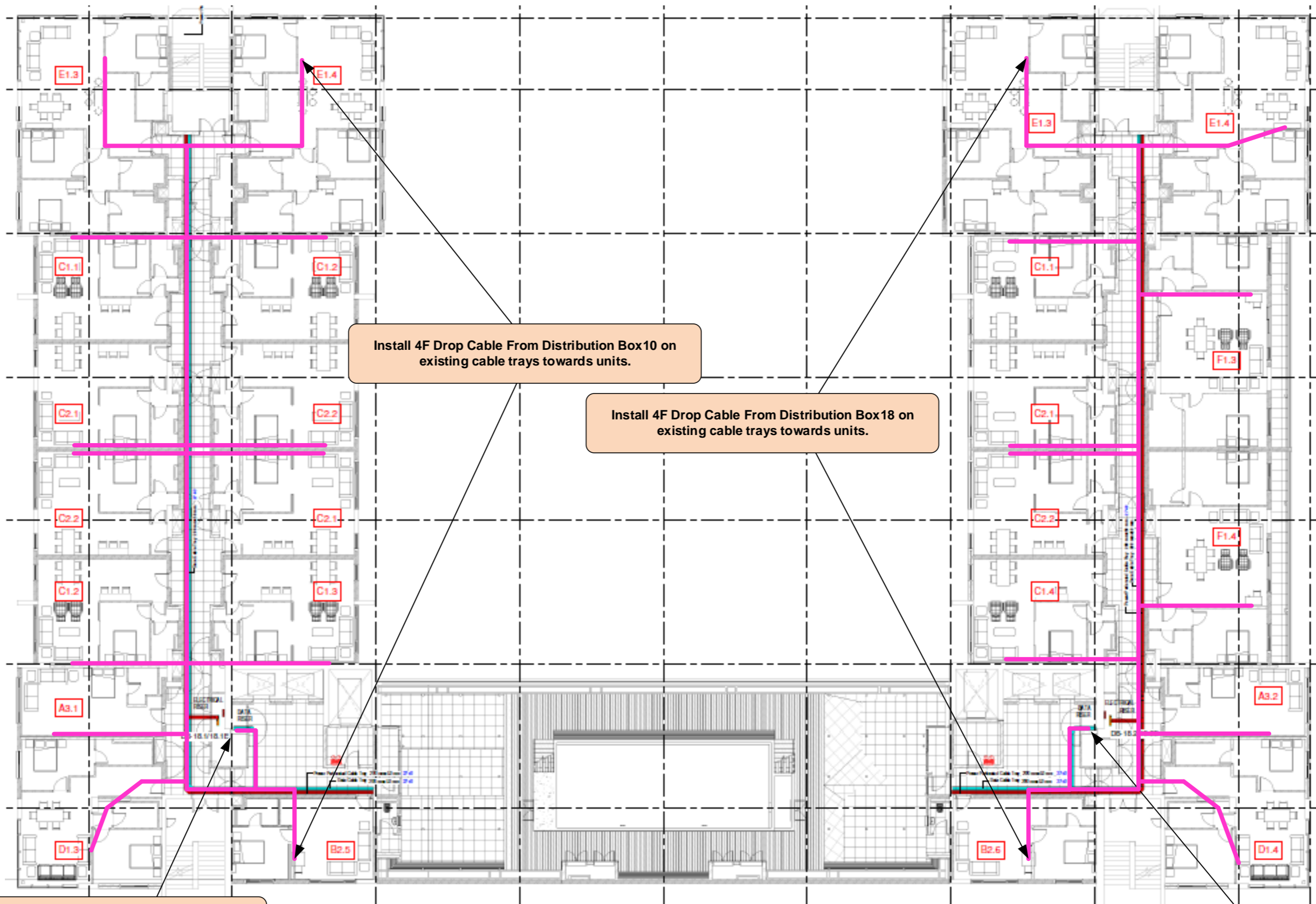
Colour Legend

	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F		
	Existing Draw Box		DSTV Fibre Link		144F Micro Cable		



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Ducting & Fibre Overview – LEVEL 19



Install 4F Drop Cable From Distribution Box 10 on existing cable trays towards units.

Install 4F Drop Cable From Distribution Box 18 on existing cable trays towards units.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

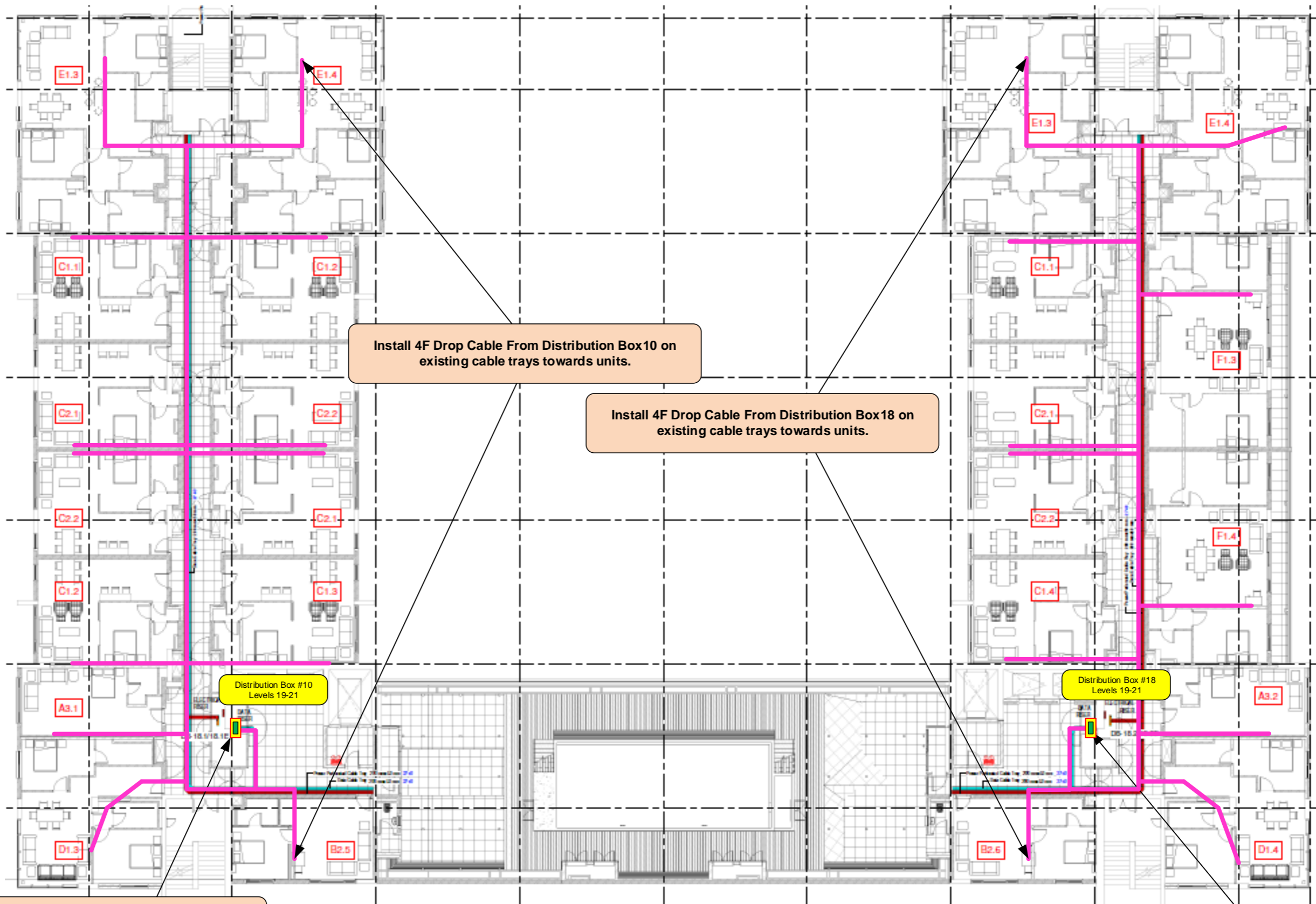
Colour Legend

	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F		
	Existing Draw Box		DSTV Fibre Link		144F Micro Cable		



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Ducting & Fibre Overview – LEVEL 20



Install 4F Drop Cable From Distribution Box 10 on existing cable trays towards units.

Install 4F Drop Cable From Distribution Box 18 on existing cable trays towards units.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

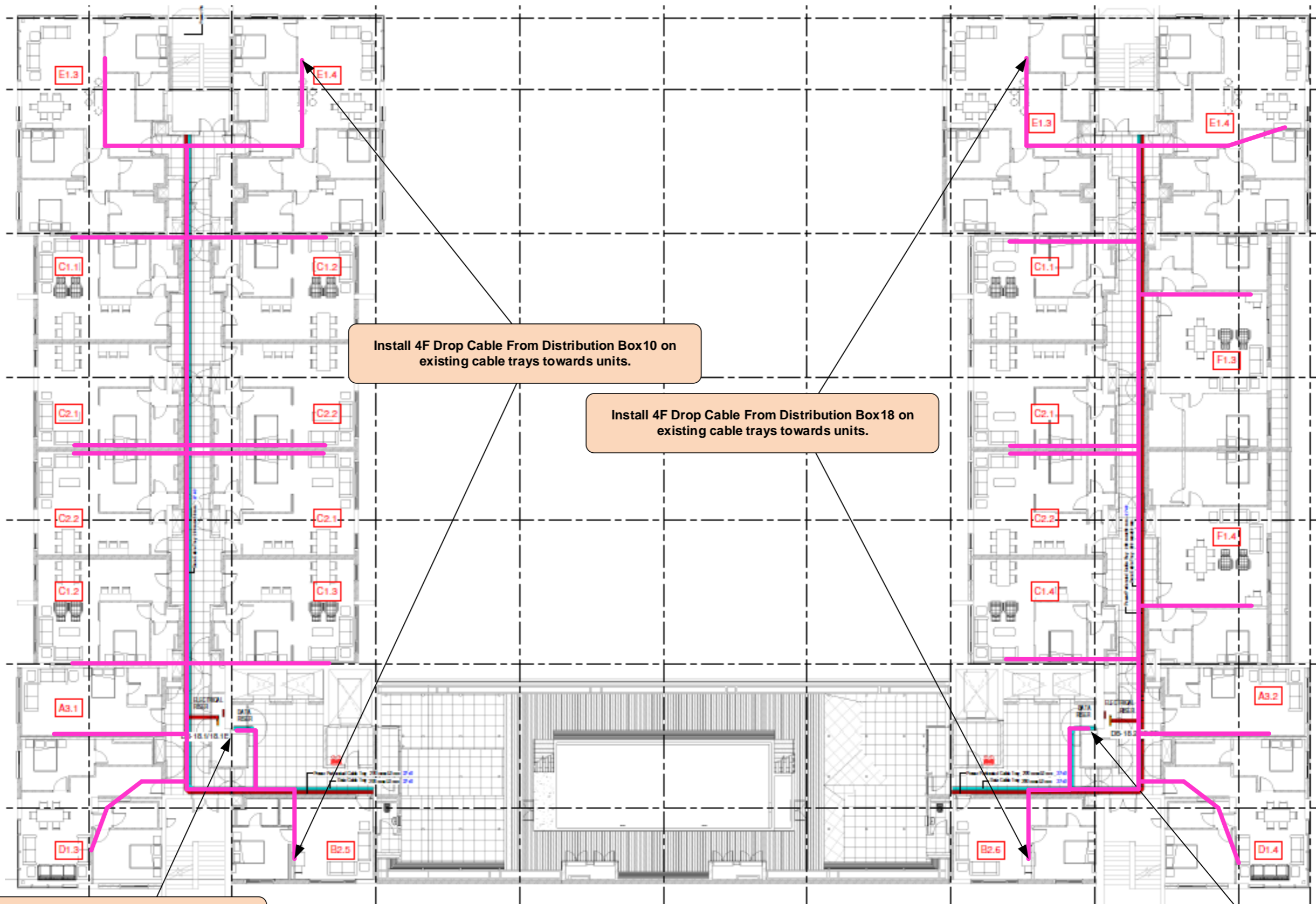
Colour Legend

42U	New 42U Cabinet	■	Existing Riser	—	Proposed 7 Way 12/10	—	4F Drop Cables Inside existing conduit towards unit TP's
■	New Core Box	●	DSTV Satellite Dish & Equipment	—	Proposed 7 Way 12/10 + 144F	—	144F Micro Cable
■	Existing Draw Box	—	DSTV Fibre Link				



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Ducting & Fibre Overview – LEVEL 21



Install 4F Drop Cable From Distribution Box 10 on existing cable trays towards units.

Install 4F Drop Cable From Distribution Box 18 on existing cable trays towards units.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

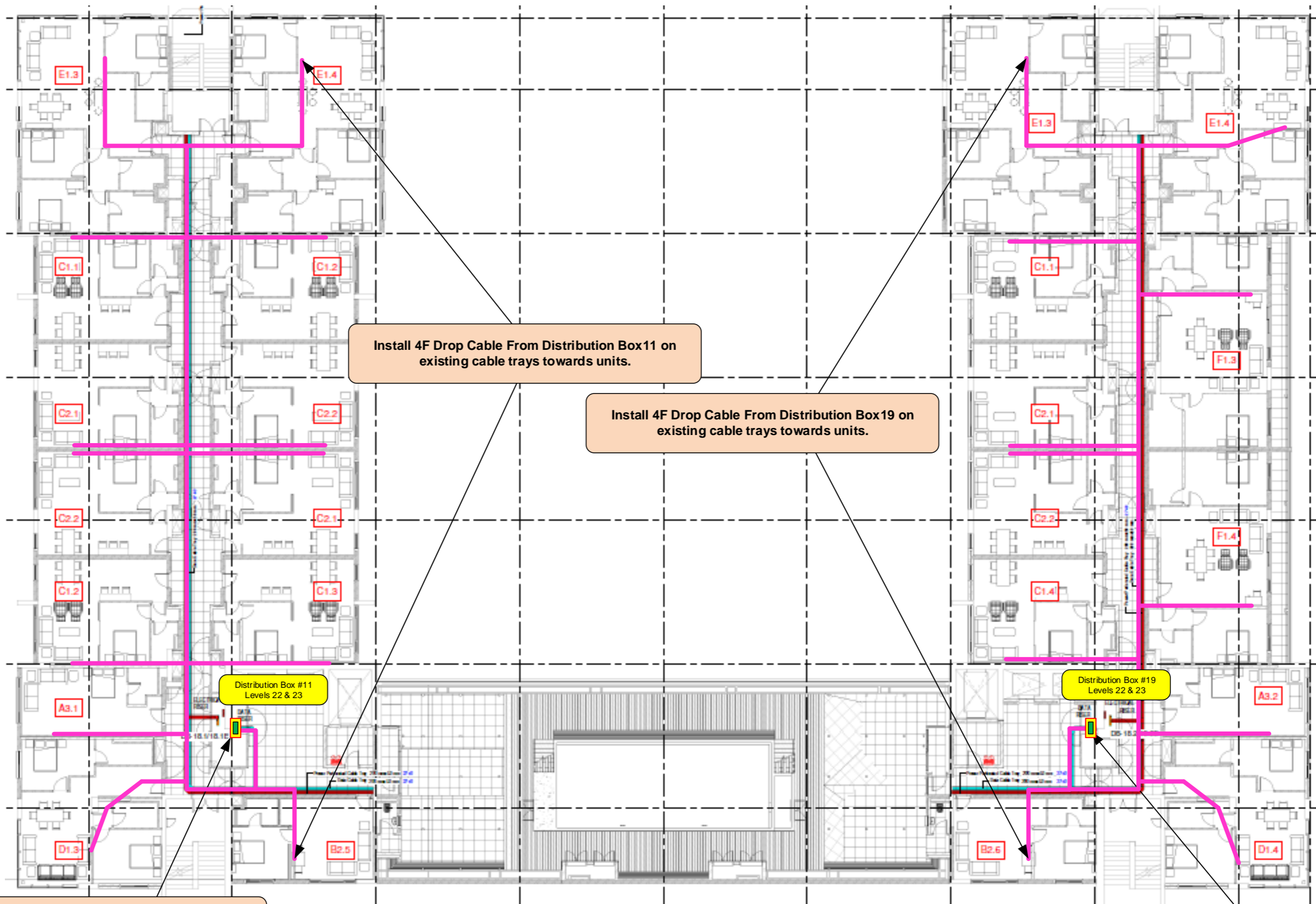
Colour Legend

	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F		
	Existing Draw Box		DSTV Fibre Link		144F Micro Cable		



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Ducting & Fibre Overview – LEVEL 22



Install 4F Drop Cable From Distribution Box11 on existing cable trays towards units.

Install 4F Drop Cable From Distribution Box19 on existing cable trays towards units.

Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

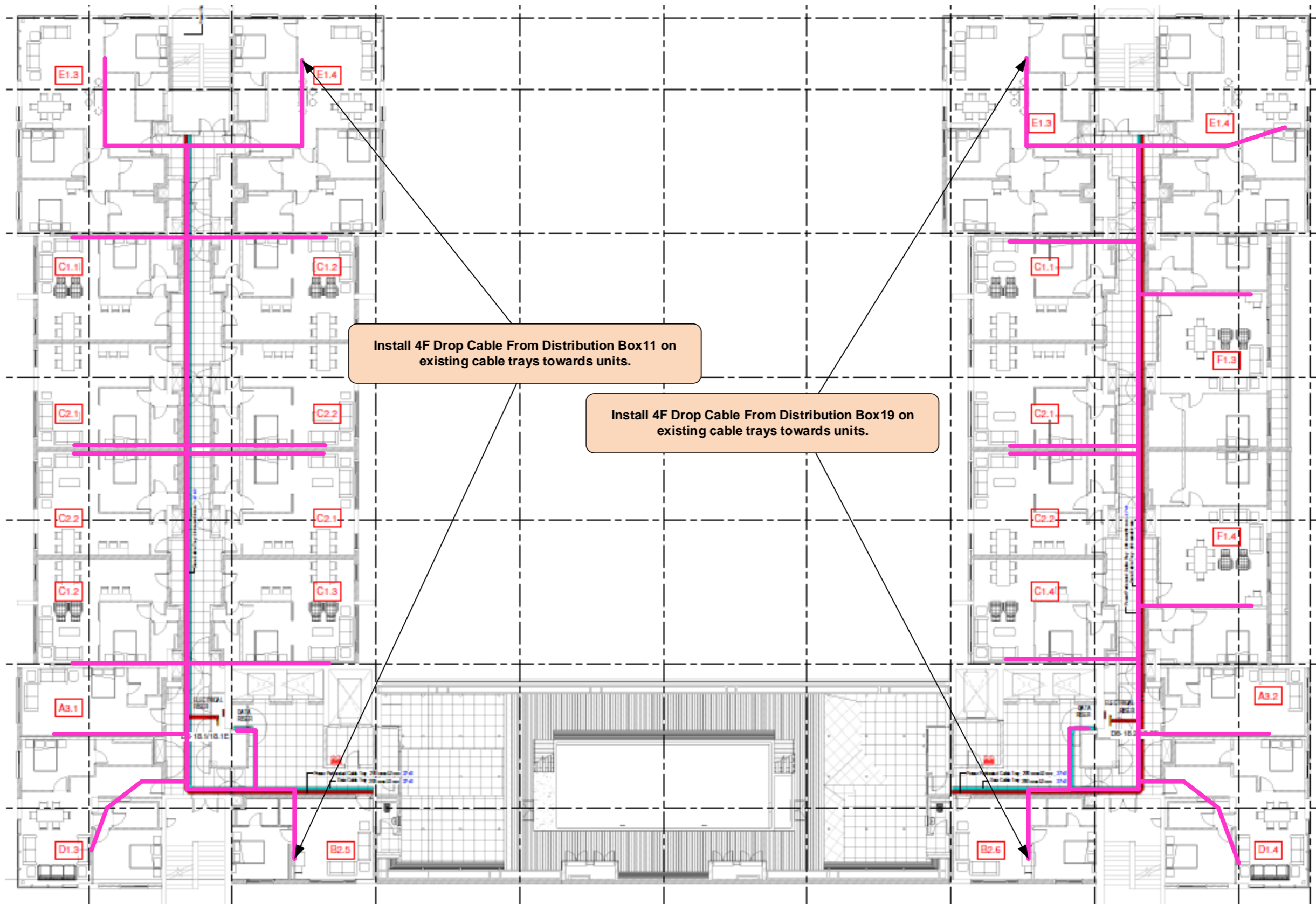
Install 1 x 7 Way 12/10 duct +144F Cable from Level 08 up into riser towards Level 22 on existing cable trays. DSTV Fibre Link to be installed from Basement Level 01 Towards Roof Top.

Colour Legend

42U	New 42U Cabinet	■	Existing Riser	—	Proposed 7 Way 12/10	—	4F Drop Cables Inside existing conduit towards unit TP's
■	New Core Box	●	DSTV Satellite Dish & Equipment	—	Proposed 7 Way 12/10 + 144F	—	144F Micro Cable
■	Existing Draw Box	—	DSTV Fibre Link				



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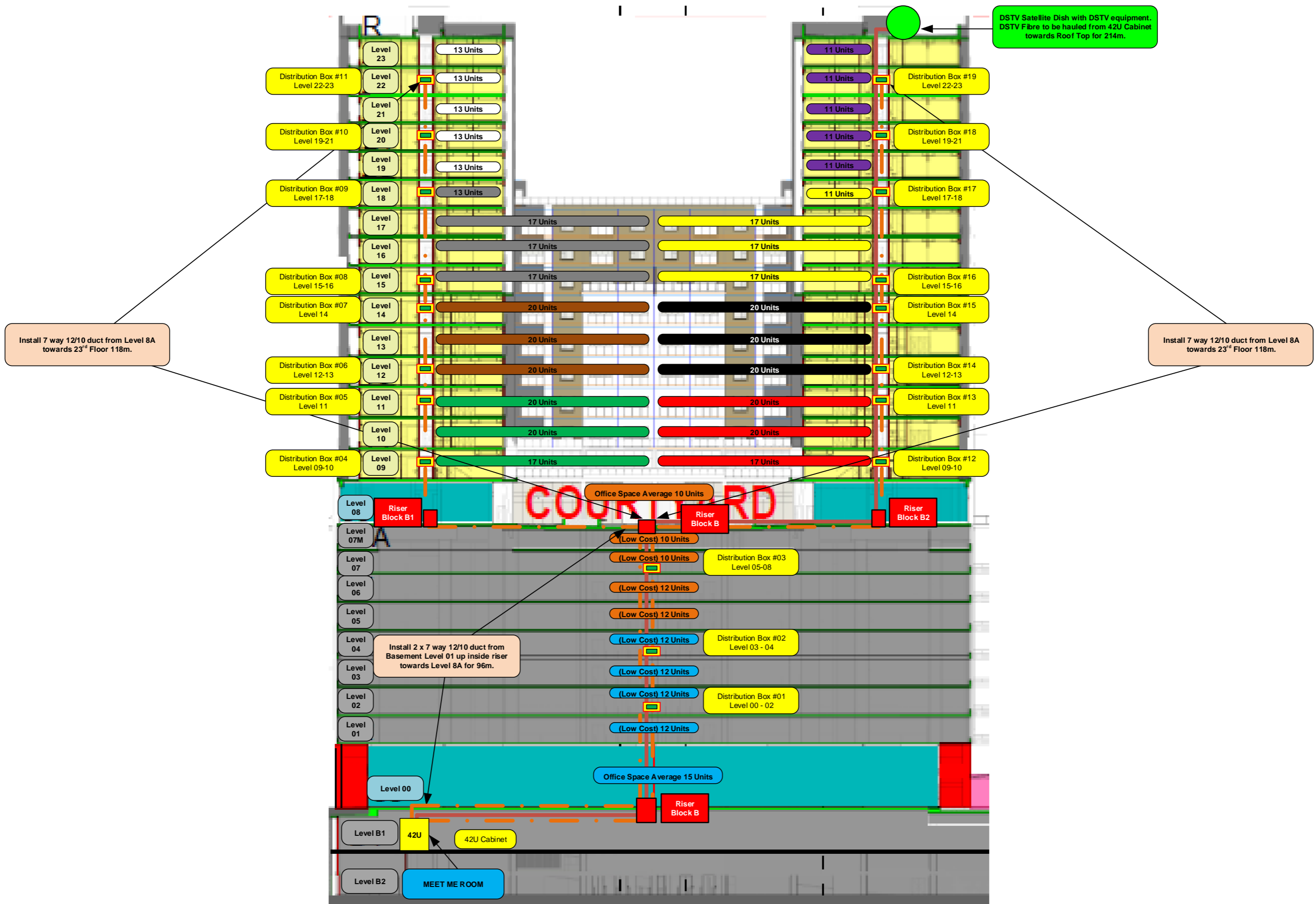
Colour Legend

	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F		
	Existing Draw Box		DSTV Fibre Link		144F Micro Cable		



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Ducting Overview Side View Block B Tower 1



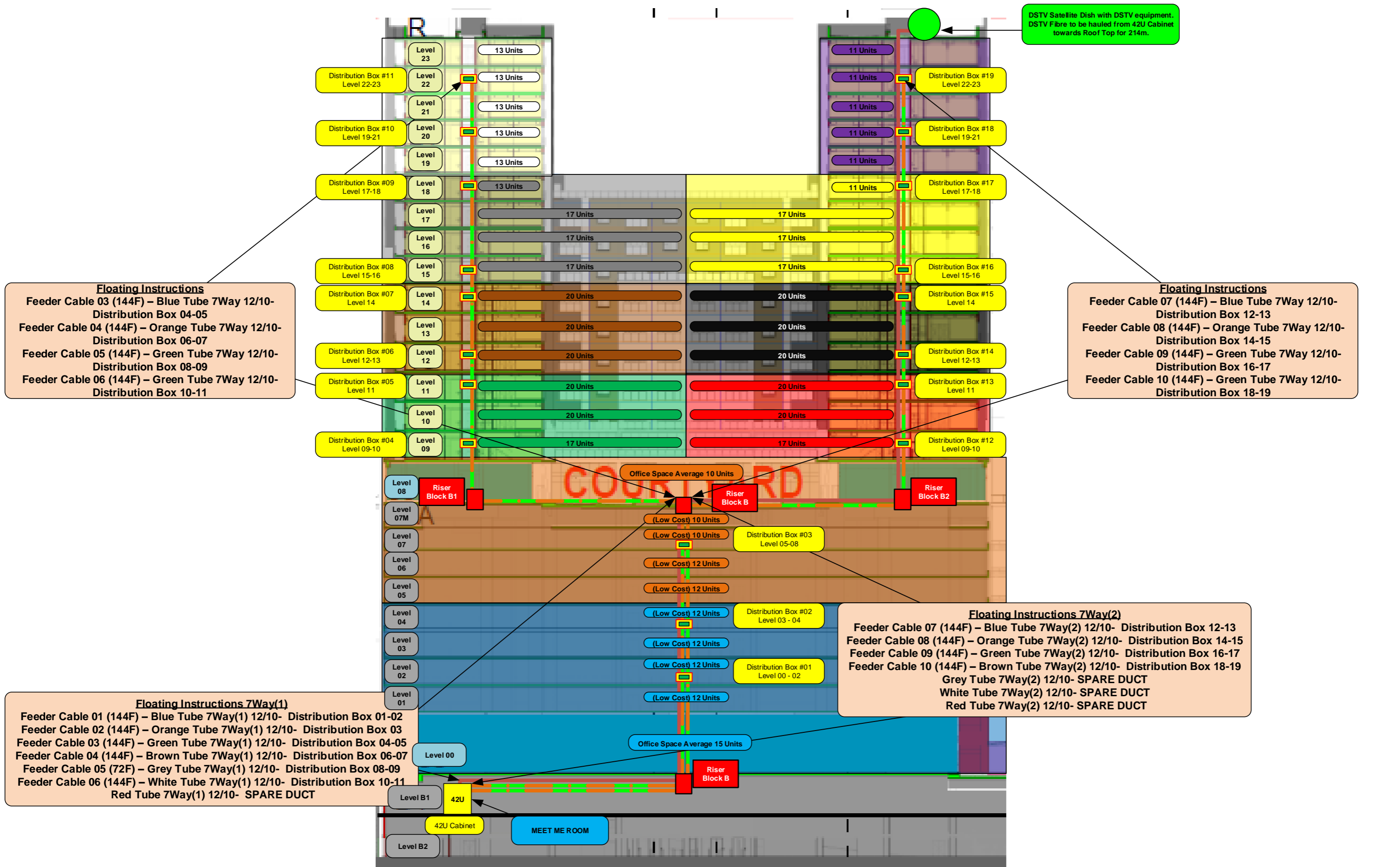
Colour Legend

42U	New 42U Cabinet	■	Existing Riser	—	Proposed 7 Way 12/10	—	4F Drop Cables Inside existing conduit towards unit TP's
■	New Core Box	●	DSTV Satellite Dish & Equipment	—	Proposed 7 Way 12/10 + 144F		
■	Existing Draw Box	—	DSTV Fibre Link	—	144F Micro Cable		



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Fibre Overview Side View Block B Tower 1



Floating Instructions
 Feeder Cable 03 (144F) – Blue Tube 7Way 12/10- Distribution Box 04-05
 Feeder Cable 04 (144F) – Orange Tube 7Way 12/10- Distribution Box 06-07
 Feeder Cable 05 (144F) – Green Tube 7Way 12/10- Distribution Box 08-09
 Feeder Cable 06 (144F) – Green Tube 7Way 12/10- Distribution Box 10-11

Floating Instructions
 Feeder Cable 07 (144F) – Blue Tube 7Way 12/10- Distribution Box 12-13
 Feeder Cable 08 (144F) – Orange Tube 7Way 12/10- Distribution Box 14-15
 Feeder Cable 09 (144F) – Green Tube 7Way 12/10- Distribution Box 16-17
 Feeder Cable 10 (144F) – Green Tube 7Way 12/10- Distribution Box 18-19

Floating Instructions 7Way(1)
 Feeder Cable 01 (144F) – Blue Tube 7Way(1) 12/10- Distribution Box 01-02
 Feeder Cable 02 (144F) – Orange Tube 7Way(1) 12/10- Distribution Box 03
 Feeder Cable 03 (144F) – Green Tube 7Way(1) 12/10- Distribution Box 04-05
 Feeder Cable 04 (144F) – Brown Tube 7Way(1) 12/10- Distribution Box 06-07
 Feeder Cable 05 (72F) – Grey Tube 7Way(1) 12/10- Distribution Box 08-09
 Feeder Cable 06 (144F) – White Tube 7Way(1) 12/10- Distribution Box 10-11
 Red Tube 7Way(1) 12/10- SPARE DUCT

Floating Instructions 7Way(2)
 Feeder Cable 07 (144F) – Blue Tube 7Way(2) 12/10- Distribution Box 12-13
 Feeder Cable 08 (144F) – Orange Tube 7Way(2) 12/10- Distribution Box 14-15
 Feeder Cable 09 (144F) – Green Tube 7Way(2) 12/10- Distribution Box 16-17
 Feeder Cable 10 (144F) – Brown Tube 7Way(2) 12/10- Distribution Box 18-19
 Grey Tube 7Way(2) 12/10- SPARE DUCT
 White Tube 7Way(2) 12/10- SPARE DUCT
 Red Tube 7Way(2) 12/10- SPARE DUCT

DSTV Satellite Dish with DSTV equipment.
 DSTV Fibre to be hauled from 42U Cabinet towards Roof Top for 214m.

Colour Legend

	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F		
	Existing Draw Box		DSTV Fibre Link		144F Micro Cable		



GTU

1.2m Fibre Glass Dish



Fibre Termination Unit

Features

- SMO-1F (Fibre Termination Unit)**
 - Fibre Input
 - Lamp: Power & Signal
 - Digital Terrestrial Television
 - Unicable Outputs x 3
- SMO-1W (Wave Division Multiplexer)**
 - Fibre Input Wavelength: 1270-1600nm
 - Fibre Output Wavelength: 1545-1600nm
 - Data Fibre Output Wavelength: 1270-1500nm

Specifications

Unicable Output Ports

Frequency: 750 ~ 2350MHz
 Output Return Loss: > 8 dB
 Typical Output Signal Power: > -30 dBm
 Flatness with all UserBands Active: +3 +/- 1,
 (750 to 2350MHz)
 TX / RX Command Protocol: EN-50494 & EN-50607

MoCA / RF Pass-Through

Insertion Loss (7MHz): < 8 dB
 Insertion Loss (5 ~ 625MHz): < 12 dB
 Insertion Loss (625 ~ 700MHz): < 16.5 dB
 Band Rejection (750 ~ 2350MHz): > 25 dB

DTT/DAB/FM Output Port

Frequency: 88 ~ 862 MHz
 Output Return Loss: > 10 dB
 Gain Variation Across Band: < 5 dB

System

LED - Unit Power Indicator: Green LED
 LED - Signal Received from HE: Blue LED
 Operating Power Required: 6.75W (450mA @ 15V) max

Wave Division Multiplexer for COFZFTU-CWDM

Fibre Input Wavelength: 1270-1600nm
 Fibre Output Wavelength: 1545-1600nm
 Data Fibre Output Wavelength: 1270-1500nm



Product Code: COFZFTU



Product Code: COFZFTU-CWDM
 Sold Separately



Cover goes over
 COFZFTU &
 COFSWDM



www.ellies.co.za

TECHNICAL DATA: D120-O-SMC-V

Antenna width	123 cm
Antenna height	127 cm
Arm material	Aluminium
Back mount material	Acier galvanisé
Frequency Range	10,7 - 12,75 GHz
Offset angle at 11,325 GHz	1,4°
Yield	70%
Gain (dB) at 11,325 GHz	41
Gain (dB) at 12,625 GHz	41,8
Figure of merit (dB/°K) at 11,325 GHz	20
Figure of merit (dB/°K) at 12,625 GHz	21
Noise figure	< 35°K
Mounting on tube	Ø 60 to 76 mm
Elevation	0° to 57°
Azimut	0° to 360°
Weight	23 kg

- 1.2m glassfibre dish gets installed on roof.
- A fibre cable for the installed from the dish towards the main cabinet.
- The Satellite TV fibre from the dish gets terminated in the main 42U Cabinet
- The Satellite TV fibre gets patched into the EDFA
- The EDFA will have 1 DSTV port – 16 DATA ports and 16 output ports (as per image below)
- The fibres from the OLT will connect into the EDFA DATA Input port.
- And the 1:64 Way splitters inputs will connect to the EDFA output ports.
- The 1:64 Way splitter will connect to the feeder cables that will be running up into the risers. (1Fibre allocated per unit)
- F08 splice box's will be installed at strategic positions where 1 Fibre out of the feeder cable will be connected to 1 Fibre of the planned 2 core Drop cable.
- Each Unit will be receiving a 2 Core drop Cable.
- A termination point will be installed inside each unit where the 2 core drop cable will be terminating.
- A CWDM will be installed inside each termination point that will be splitting the 1 fibre into a DATA and Satellite TV fibre.
- The Satellite TV fibre will be connected to a GTU
- And the tenants DSTV or OVHD decoder will connect the GTU with a coax cable.

Colour Legend











	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F		
	Existing Draw Box		DSTV Fibre Link		144F Micro Cable		



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PLEASE SEE SPLICE DIAGRAMS SEPERRATELY

Colour Legend

	New 42U Cabinet		Existing Riser		Proposed 7 Way 12/10		4F Drop Cables Inside existing conduit towards unit TP's		
	New Core Box		DSTV Satellite Dish & Equipment		Proposed 7 Way 12/10 + 144F				
	Existing Draw Box		DSTV Fibre Link		144F Micro Cable				



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