DRAWING ISSUE & REGISTER SHEET

ELECTRICAL SERVICES

JV TIERNEY & CO
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PROJECT.	STRATEGIC HOUSING DEVELOPMENT AT FORMER O'DEVANEY GARDENS SITE, DUBLIN 7
PROJECT NO.	4083

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Date Of Issue.

29/04/21

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Architect	O`Mahony Pike		X
Quantity Surveyors	KSN		X
Civil & Structural	CS Consulting Engineers		X
Main Contractor			
Mechanical Contractor			
Electrical Contractor			

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DRAWINGS NO	DRAWING TITLE	SCALE	REVISION
4083-(60)-00A	PROPOSED ELECTRICAL SITE SERVICES LAYOUT	1:500 @ A1P	P05
4083-(60)-01A	PROPOSED UTILITY DRAWINGS -EIR	1:500 @ A1P	P01
4083-(60)-02A	PROPOSED UTILITY DRAWINGS -VIRGIN	1:500 @ A1P	P01
4083-(60)-03A	PROPOSED PUBLIC LIGHTING LAYOUT	1:500 @ A1P	P01
4083-(54)-00	PROPOSED UTILITY DRAWINGS -GAS	1:500 @ A1P	P01

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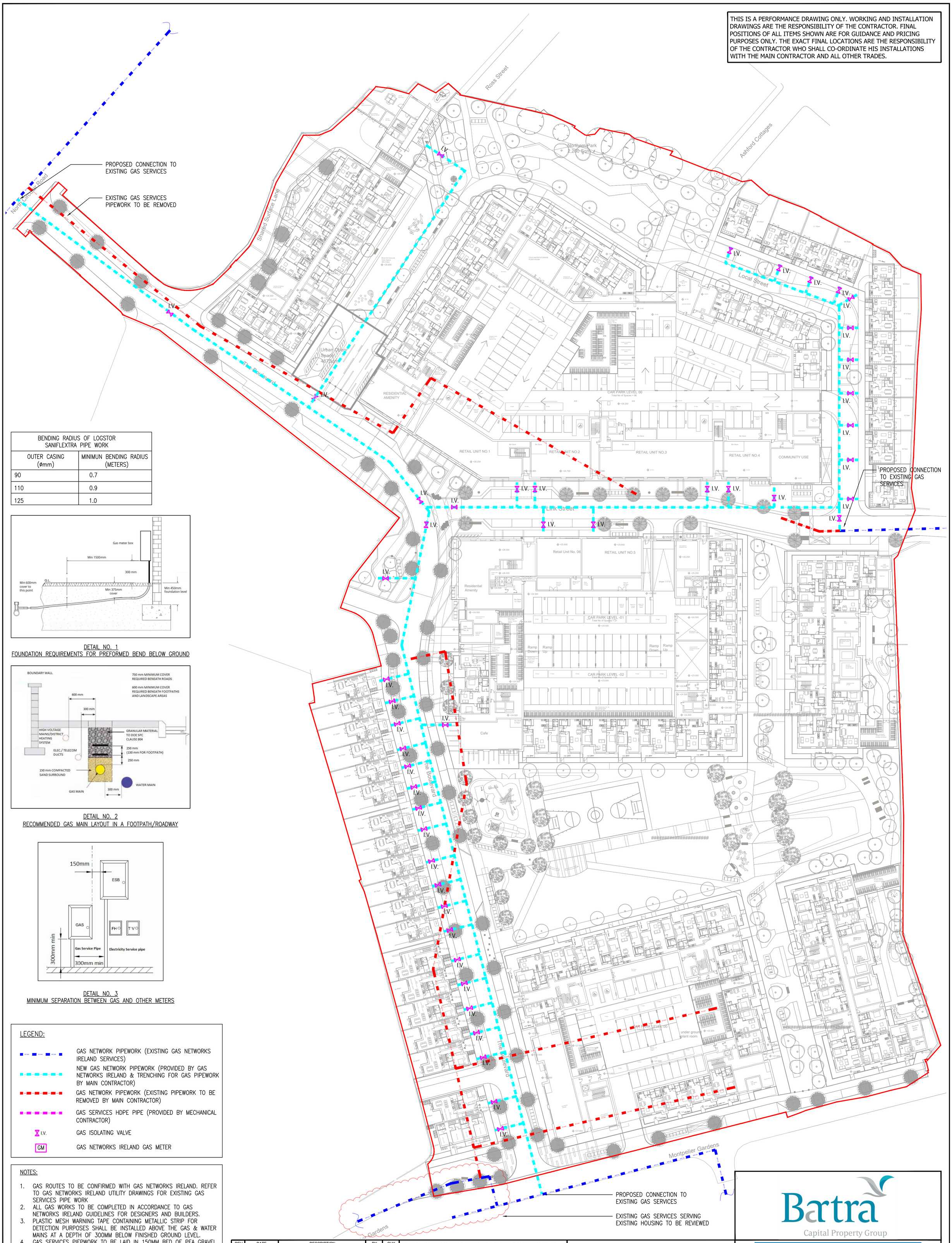

BENDING RADIUS OF LOGSTOR SANIFLEXTRA PIPE WORK	
OUTER CASING (ømm)	MINIMUN BENDING RADIUS (METERS)
90	0.7
110	0.9
125	1.0

DETAIL NO. 1
FOUNDATION REQUIREMENTS FOR PREFORMED BEND BELOW GROUND

DETAIL NO. 2
RECOMMENDED GAS MAIN LAYOUT IN A FOOTPATH/ROADWAY

DETAIL NO. 3
MINIMUM SEPARATION BETWEEN GAS AND OTHER METERS

LEGEND:

- GAS NETWORK PIPEWORK (EXISTING GAS NETWORKS IRELAND SERVICES)
- NEW GAS NETWORK PIPEWORK (PROVIDED BY GAS NETWORKS IRELAND & TRENCHING FOR GAS PIPEWORK BY MAIN CONTRACTOR)
- GAS NETWORK PIPEWORK (EXISTING PIPEWORK TO BE REMOVED BY MAIN CONTRACTOR)
- GAS SERVICES HDPE PIPE (PROVIDED BY MECHANICAL CONTRACTOR)
- I.V. GAS ISOLATING VALVE
- GM GAS NETWORKS IRELAND GAS METER

NOTES:

1. GAS ROUTES TO BE CONFIRMED WITH GAS NETWORKS IRELAND. REFER TO GAS NETWORKS IRELAND UTILITY DRAWINGS FOR EXISTING GAS SERVICES PIPE WORK
2. ALL GAS WORKS TO BE COMPLETED IN ACCORDANCE TO GAS NETWORKS IRELAND GUIDELINES FOR DESIGNERS AND BUILDERS.
3. PLASTIC MESH WARNING TAPE CONTAINING METALLIC STRIP FOR DETECTION PURPOSES SHALL BE INSTALLED ABOVE THE GAS & WATER MAINS AT A DEPTH OF 300MM BELOW FINISHED GROUND LEVEL.
4. GAS SERVICES PIEPWORK TO BE LAID IN 150MM BED OF PEA GRAVEL. WHEN COMPLETE AND TESTED COVER WITH 150MM LAYER OF SAND.
5. DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER SITE SERVICES DRAWINGS.
6. MECHANICAL SITE SERVICES TO BE COORDINATED WITH ALL OTHER SITE SERVICES.
7. WHERE THE NECESSITY TO CROSS OR RUN IN CLOSE PROXIMITY TO ANY OTHER UTILITY OCCURS, A MINIMUM CLEARANCE OF 300MM IS REQUIRED.
8. NO OTHER SERVICES/UTILITIES SHALL BE PLACED OVER THE GAS MAIN/SERVICE.
9. THE CONTRACTOR IS RESPONSIBLE FOR CO–ORDINATION OF THE INCOMING UTILITY SERVICES, I.E. MINIMUM SEPERATION BETWEEN GAS, ESB, WATER METER CABINETS, EIR & VIRGIN MEDIA ENTRY POINTS.
10. NEW GAS PIPE TO BE INSTALLED, TESTED AND COMMISSIONED BEFORE EXISTING GAS MAIN CAN BE REMOVED.

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PROJECT:
SHD AT FORMER O'DEVANEY GARDENS SITE DUBLIN 7

DRAWING TITLE:
PROPOSED UTILITY DRAWINGS - GAS

Bartra Capital Property Group

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DRAWING NUMBER: 4083-(54)-00				
DRAWN: HP	DATE: 18/03/2020	DRAWING STATUS: ISSUED FOR INFORMATION		
CHECKED: AP	DATE: 18/03/2020	SCALE: 1:500@A1P	PROJECT NUMBER: 4083	REVISION: P01

NOTES:

1. THE FOLLOWING NOTES REFER TO THE SITING FOR THE SUB-STATION.
2. ACCESS:
   THE SUBSTATION BUILDING MUST BE LOCATED AT GROUND LEVEL. VEHICULAR ACCESS MAY BE REQUIRED AT ANY TIME OF DAY OR NIGHT. THE STATION WILL HAVE AN ACCESS CORRIDOR OF AT LEAST 3M WIDE AND 4M HIGH. THE MAXIMUM SLOPE OF ACCESS WILL BE 1:10. WHERE NECESSARY, A DRIVEWAY 3M WIDE WILL BE LAID. THE DRIVEWAY WILL BE 100MM OF CONCRETE ON 150MM BED OF WELL COMPACTED HARD CORE. IF THE SUB-STATION IS TO BE LOCATED IN A CAR PARK, IT MAY BE NECESSARY TO INSTALL DEMOUNTABLE BOLLARDS OR PAINT YELLOW HATCHING ON THE GROUND TO ENSURE THAT ESB CAN GAIN UN-RESTRICTED ACCESS TO THE STATION.
3. SITING OF THE STATION WITHIN A BUILDING COMPLEX (AN INCORPORATED MV STATION):
   WHERE SUBSTATION DOORS ARE MORE THAN 10M FROM MAIN ENTRANCES AND EXITS, AIR CONDITIONING INTAKES, ESCAPE WAYS, OIL PIPES, GAS PIPES, FUEL TANKS OR SIMILAR RISKS, THEN WILL BE NO MORE ADDITIONAL FIRE SAFETY REQUIREMENTS. WHERE SUBSTATION DOORS ARE LESS THAN 10M FROM MAIN ENTRANCES AND EXITS, AIR CONDITIONING INTAKES, ESCAPE WAYS, OIL PIPES, GAS PIPES, FUEL TANKS OR SIMILAR RISKS, THEN ADDITIONAL PRECAUTIONS SHALL BE TAKEN AND WRITTEN AGREEMENT MUST BE OBTAINED FROM THE FIRE OFFICER. IF THERE ARE WINDOWS WITHIN A 3M RADIUS OF THE SUBSTATION DOOR FRAME, THE ROOMS, UNITS OR APARTMENTS SERVED BY THE WINDOWS SHALL HAVE AN ALARM ACTIVATED BY A DETECTOR IN THE SUBSTATION.
4. DRAINAGE:
   ADEQUATE BELOW GROUND LEVEL DRAINAGE MUST BE PROVIDED TO ENSURE THAT THE SUBSTATION AND DUCTS ARE NOT LIABLE TO FLOOD.

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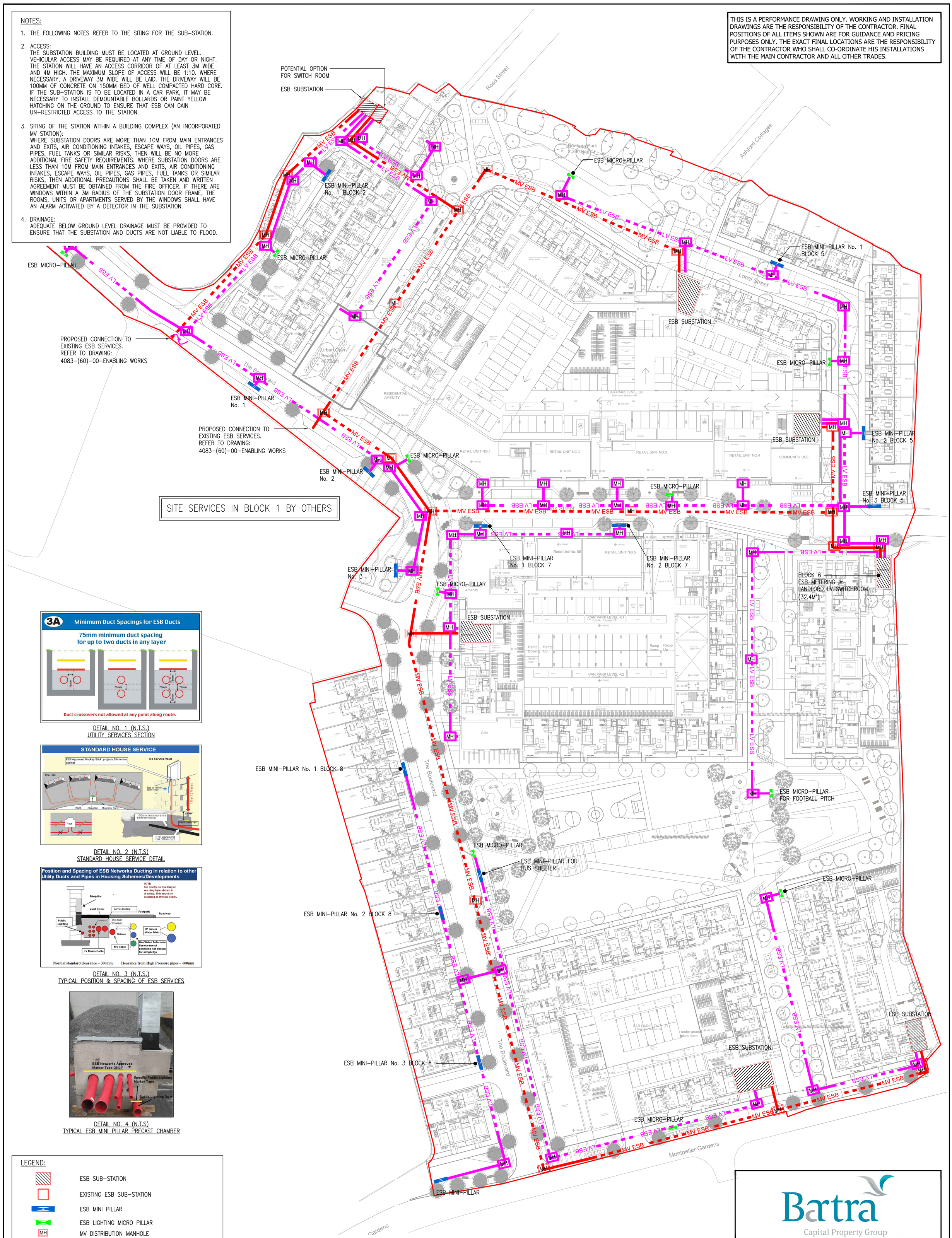

DETAIL NO. 1 (N.T.S.)
UTILITY SERVICES SECTION

DETAIL NO. 2 (N.T.S)
STANDARD HOUSE SERVICE DETAIL

DETAIL NO. 3 (N.T.S.)
TYPICAL POSITION & SPACING OF ESB SERVICES

DETAIL NO. 4 (N.T.S)
TYPICAL ESB MINI PILLAR PRECAST CHAMBER

LEGEND:

- ESB SUB-STATION
- EXISTING ESB SUB-STATION
- ESB MINI PILLAR
- ESB LIGHTING MICRO PILLAR
- MH — MV DISTRIBUTION MANHOLE
- MH — LV DISTRIBUTION MANHOLE
- MV ESB — 6 No. NEW ø160mm ESB MV DUCTS.
- LV ESB — 4 No. NEW ø160mm ESB LV DUCTS.

KEYED NOTES:

1. ESB DUCTS TO BE INSTALLED IN ACCORDANCE WITH ESB SPECIFICATION. REFER TO DETAIL NO. 1.
2. THE ESB SUBSTATION TO SUPPLY THE 56 UNITS IN BLOCK 1 & THE UNITS IN BLOCK 2.
3. EXISTING LOCATION FOR ESB SUBSTATION FOR BLOCK 1 TO BE ABANDONED & BLOCK 1 IS TO BE FED FROM THE PROPOSED ESB SUBSTATION LOCATION AS SHOWN.

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REV	DATE	DESCRIPTION	BY	CHK
P01	20.12.18	ISSUED FOR COMMENT	POC	AP
P02	21.01.19	ISSUED FOR COMMENT	KC	AP
P03	05.02.19	ISSUED FOR COMMENT	KC	AP
P04	11.03.20	ISSUED FOR COMMENT	HP	KOB
P05	29.04.21	ISSUED FOR COMMENT	POC	KOB
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PROJECT:
SHD AT FORMER O'DEVANEY GARDENS SITE DUBLIN 7

DRAWING TITLE:
PROPOSED ELECTRICAL SITE SERVICES LAYOUT

Bartra Capital Property Group

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4083-(60)-00A				
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CHECKED: AP	DATE: 20/12/2018	SCALE: 1:500@A1P	PROJECT NUMBER: 4083	REVISION: P05

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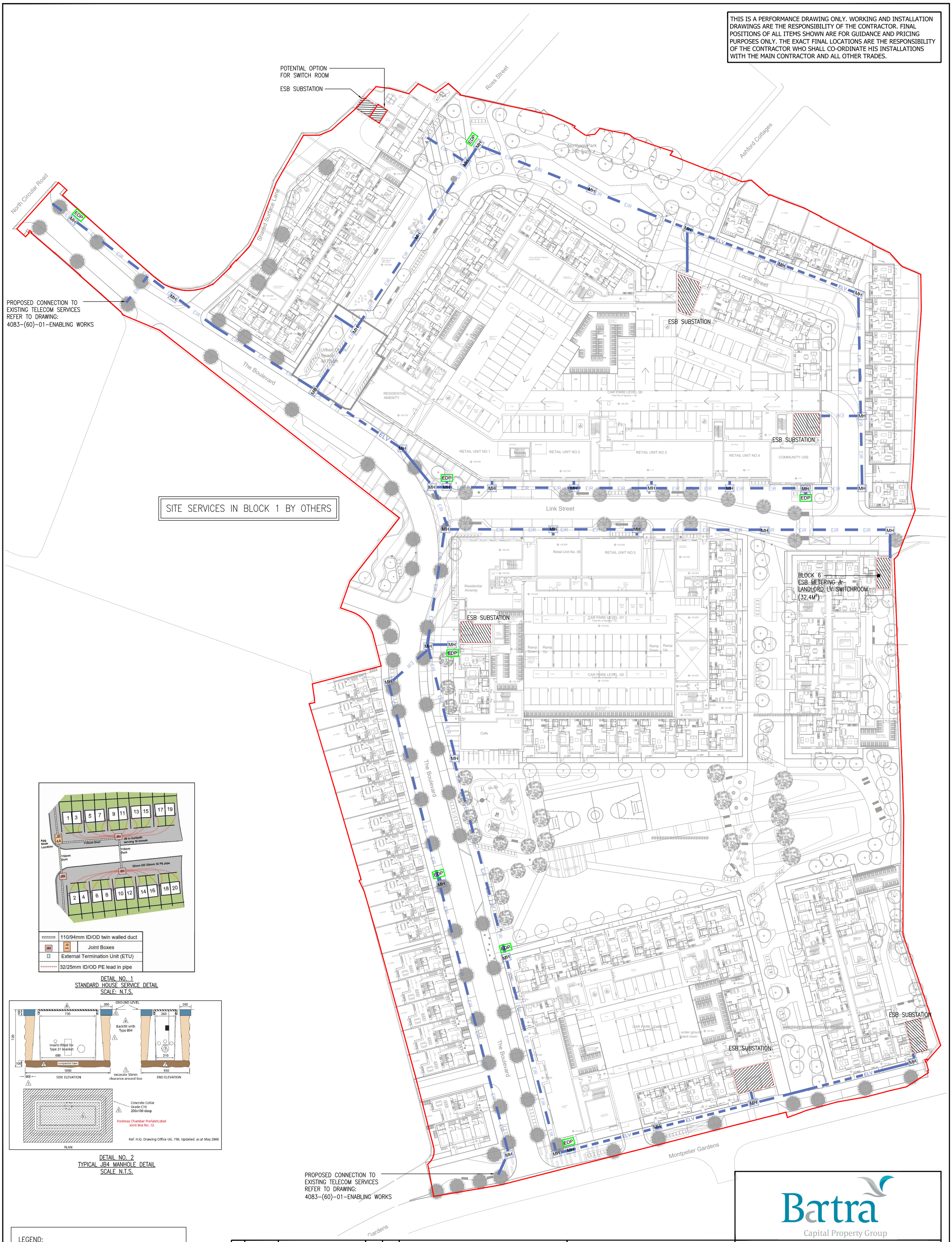

DETAIL NO. 1
STANDARD HOUSE SERVICE DETAIL
SCALE: N.T.S.

DETAIL NO. 2
TYPICAL JB4 MANHOLE DETAIL
SCALE N.T.S.

LEGEND:

- EDP — EIR DISTRIBUTION PILLAR
- MH — EIR PROPRIETARY JOINT BOX / MANHOLE
- 2 NO. NEW 110mm EIR DUCTS.

NOTES:

1. EIR DUCTS TO BE INSTALLED IN ACCORDANCE WITH EIR SPECIFICATION. REFER TO DETAIL 2.
2. MAIN EIR DUCT RUNS SHOWN, FINAL SERVICE CONNECTIONS NOT SHOWN. FOR DETAILS PLEASE REFER TO DETAIL NO.1.

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P01	29.04.21	ISSUED FOR COMMENT	POC	KOB

PROJECT:
SHD AT FORMER O'DEVANEY GARDENS SITE DUBLIN 7

DRAWING TITLE:
PROPOSED UTILITY DRAWINGS - EIR

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4083-(60)-01A				
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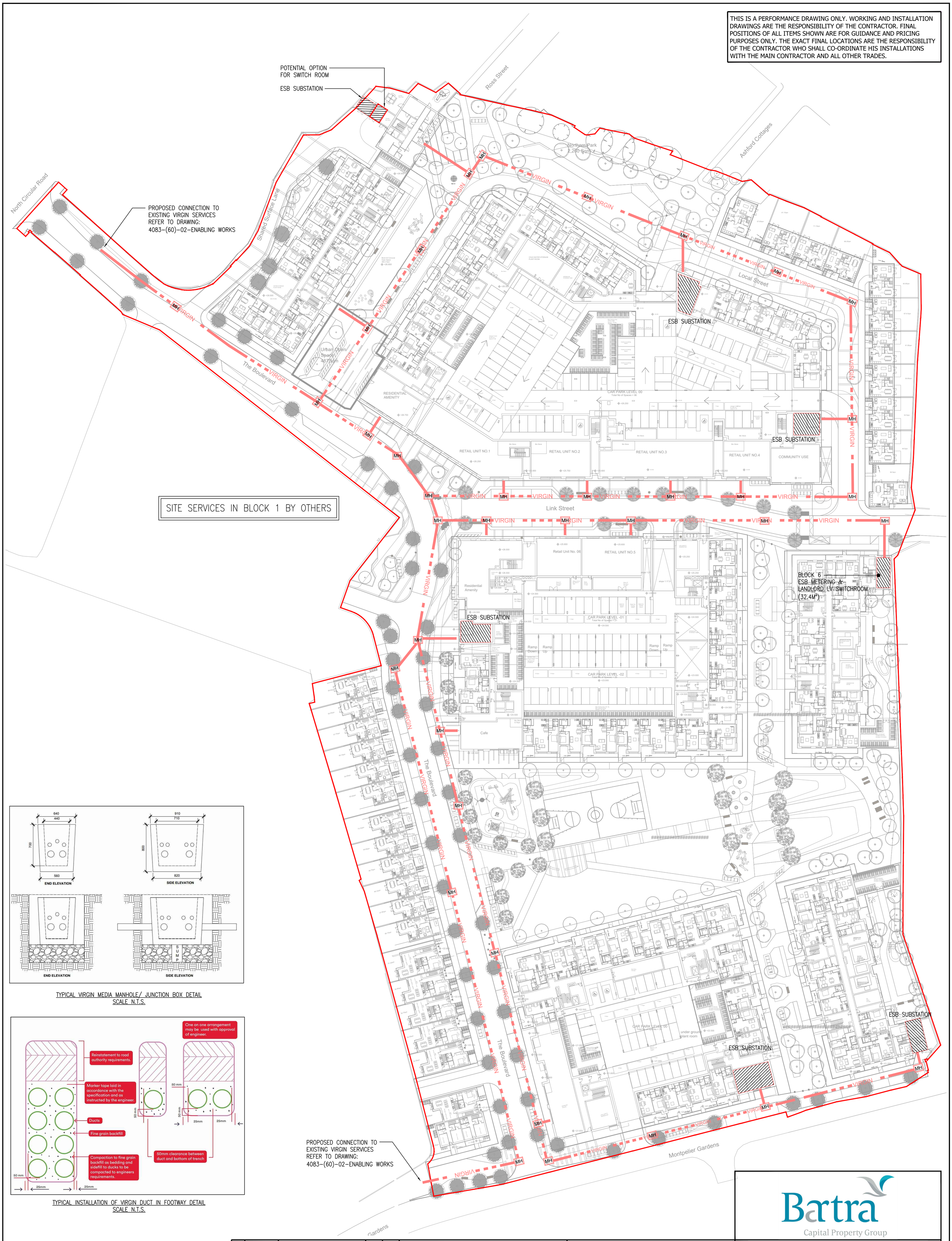

TYPICAL VIRGIN MEDIA MANHOLE/ JUNCTION BOX DETAIL
SCALE N.T.S.

TYPICAL INSTALLATION OF VIRGIN DUCT IN FOOTWAY DETAIL
SCALE N.T.S.

LEGEND:

MH — VIRGIN MEDIA MANHOLE/ JUNCTION BOX

2 NO. NEW 110mm VIRGIN MEDIA DUCTS

NOTES:

1. MAIN DUCT RUNS SHOWN ONLY, INDIVIDUAL SERVICE CONNECTIONS TO UNITS NOT SHOWN.
2. VIRGIN MEDIA DUCTS TO BE INSTALLED IN ACCORDANCE WITH VIRGIN MEDIA DEVELOPMENT HANDBOOK.

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PROJECT:

SHD AT FORMER O'DEVANEY GARDENS SITE DUBLIN 7

DRAWING TITLE:

PROPOSED UTILITY DRAWINGS - VIRGIN

Bartra Capital Property Group

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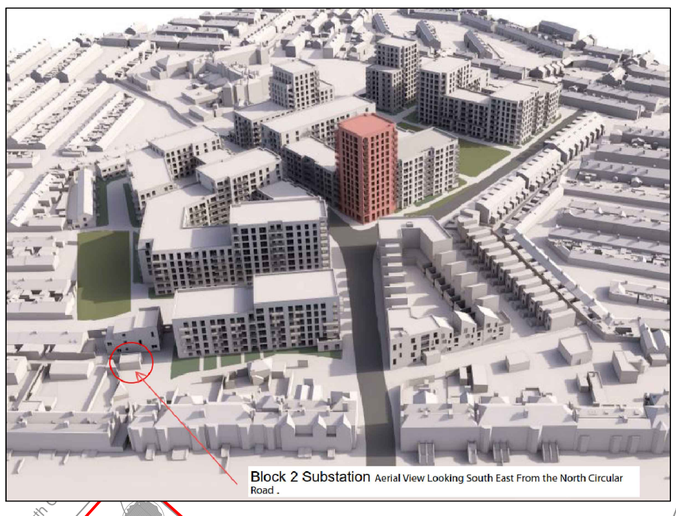

SITE SERVICES IN BLOCK 1 BY OTHERS

DETAIL NO. 1 – SLEEVED COLUMN FOUNDATION BASE DETAIL
SCALE: N.T.S.

DETAIL NO. 2 – PUBLIC LIGHTING
SCALE: N.T.S.

TYPE A 8M OCTAGONAL GALVANIZED STEEL LIGHTING COLUMN.
LED LAMP SOURCE 652x295x245mm (LxWxH). SCALE: N.T.S.

TYPE B 6M OCTAGONAL GALVANIZED STEEL LIGHTING COLUMN.
LED LAMP SOURCE 560x245x245mm (LxWxH). SCALE: N.T.S.

TYPE C 5M OCTAGONAL GALVANIZED STEEL LIGHTING COLUMN.
LED LAMP SOURCE 500x202x579mm (AxBxH). SCALE: N.T.S.

NOTES:

1. PUBLIC LIGHTING DUCTS TO BE INSTALLED IN ACCORDANCE WITH DCC SPECIFICATION.
2. PUBLIC LIGHTING COLUMNS TO BE INSTALLED AS SHOWN IN DETAIL–1.
3. PUBLIC LIGHTING MICRO PILLAR SUPPLIED BY ADJACENT ESB MINI–PILLAR. QUANTITIES AS INDICATED ON DRAWING. PLEASE REFER TO DETAIL 2 FOR CONNECTION DETAIL.
4. ALL LAMP BESIDE ACCOMMODATION TO HAVE COWLS INSTALLED.

LEGEND:

- ESB LIGHTING MICRO PILLAR
- MH — PUBLIC LIGHTING MANHOLE/ JUNCTION BOX
- PL — 1 No. NEW Ø100MM PUBLIC LIGHTING DUCT
- A — TYPE A 8M OCTAGONAL GALVANISED STEEL LIGHTING COLUMN. LED LAMP SOURCE WITH INTEGRAL LIGHTING CONRTOL MODULE.
- B — TYPE B 6M OCTAGONAL GALVANISED STEEL LIGHTING COLUMN. LED LAMP SOURCE WITH INTEGRAL LIGHTING CONRTOL MODULE.
- C — TYPE C 5M OCTAGONAL GALVANISED STEEL LIGHTING COLUMN. LED LAMP SOURCE WITH INTEGRAL LIGHTING CONRTOL MODULE.

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PROJECT:
SHD AT FORMER
O'DEVANEY GARDENS SITE
DUBLIN 7

DRAWING TITLE:
PROPOSED PUBLIC LIGHTING LAYOUT

Bartra
Capital Property Group

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4083-(60)-03A				
DRAWN: POC	DATE: 22/02/2021	DRAWING STATUS: ISSUED FOR INFORMATION		
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