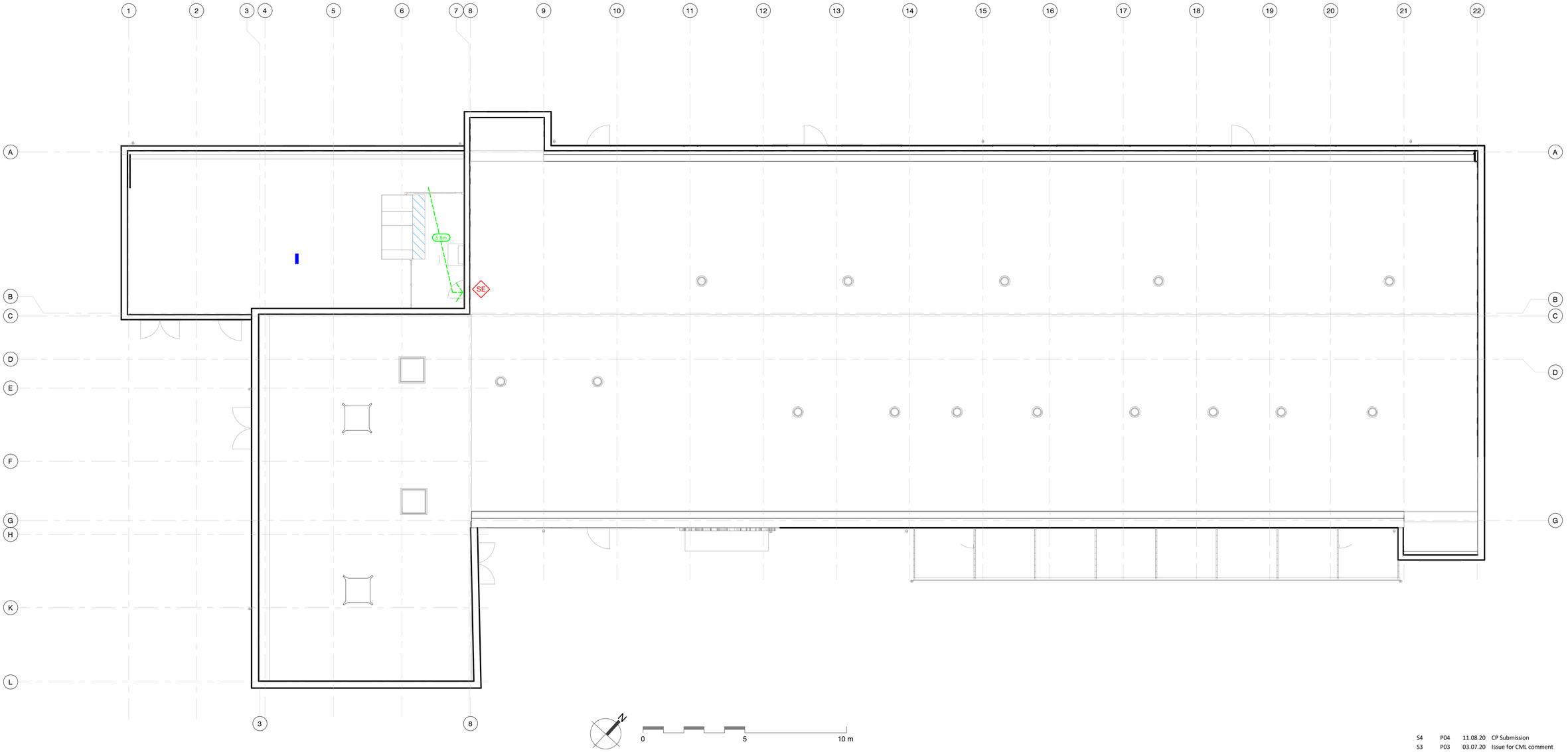
0mm 50mm 100mm



Fire Strategy Legend

Fire Door/ Partition Ratings:

- 30 Minutes Fire Rated Construction
- 60 Minutes Fire Rated Construction
- FD60S fire door with smoke seals
- FD60 fire door
- FD30 fire door with smoke seals
- FD30 fire door
- FAP — Fire Alarm Master Panel
- FARP — Fire Alarm Repeat Panel
- CLSR — Door Closer

Fire Symbols:

- 1050 — Min Exit Width (all > 850)
- Travel Distance (Escape Route)
- Smoke Retarding Construction
- Disabled Refuge Space
- FE — Final Exit
- SE — Storey Exit
- HO — Hold open device to release on alarm
- * — Door to open/unlock on detection of a fire

Room Annotation:

Name — Room Name
(2) — Room Occupancy (as stated in the SoA.)

Note:
Fire strategy as provided by the fire consultant has been adopted.
Please refer to fire consultant strategy for further information.

Notes:

1. Fire strategy to be based on BS 9999.
2. Building classified with an A2 risk profile, with hall also assessed with a B2 risk profile, assuming that this space could be used outside of normal hours by public
3. Automatic detection to be provided to a Category L2 standard in accordance with BS 5839-1.
4. Emergency lighting to be provided in accordance with BS 5266-1 and BS EN 1838. The system will be a maintained system with 180 minute duration.
5. No sprinklers to be provided for Building Regulations, and the risk profile and measures have been developed based on no fire suppression being provided.
6. Means of escape has been determined on simultaneous evacuation of the building.
7. All doors to be a minimum of 850mm wide, except where stated.
8. Stairs to be a minimum of 1440mm wide, this will allow a maximum of 320 persons on the first floor (based on 10 classes of 32, which includes for a class in the Library).
9. Elements of structure to be provided with not less than 30 minutes fire resistance.
10. Fire resistance to walls and doors as shown on the plan.
11. No requirement for the external facade to be fire resisting for the purposes of space separation. However, fire resistance may be required to the external facade where external escape routes are located within 1800mm of the building. Where this is the case, the wall should achieve 30 minutes fire resistance from the inside, up to 1100mm from floor level.
12. Access for a fire appliance to be provided to not less than 15% of the perimeter. Currently this can be achieved via the car park. Roadways should be a minimum 3.7m between kerbs.
13. Hydrants to be provided within 90m of an entrance to the building, measured along a route suitable for laying hose.

STATUS	REV	DATE	DESCRIPTION
S4	P04	11.08.20	CP Submission
S3	P03	03.07.20	Issue for CML comment
S3	P02	21.04.20	Draft CP Isuue
S3	P01	09.04.20	Draft CP's for CAL comment

CLIENT
Caledonian Modular

REVISED BY
JL

CHECKED BY
RB

ORIGINATOR NO
153608

CONSULTANT
STRIDE TREGLOWN
www.stridetreglown.com

PROJECT
Buckton Fields Primary School
Village of Boughton, Brampton Lane
Northampton
NN6 8AA

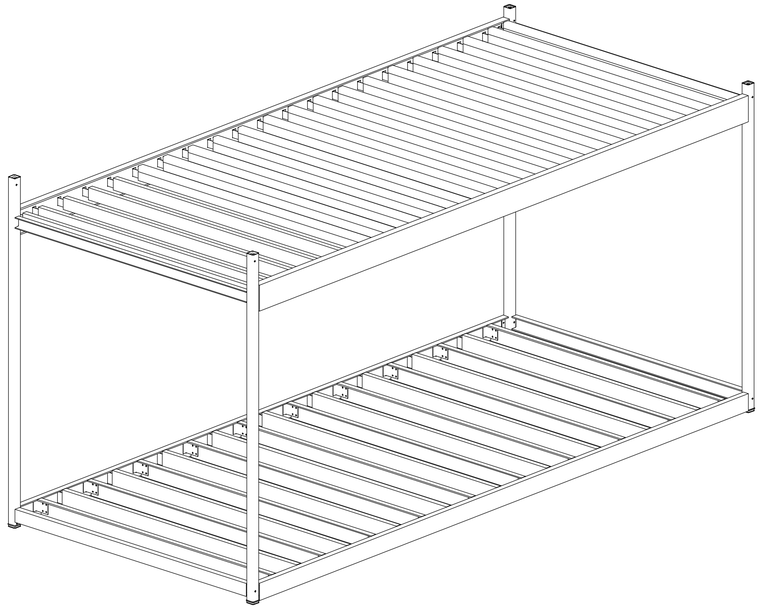
DRAWING TITLE
Roof Fire Strategy

SUITABILITY STATUS
S4 : SUITABLE FOR STAGE APPROVAL

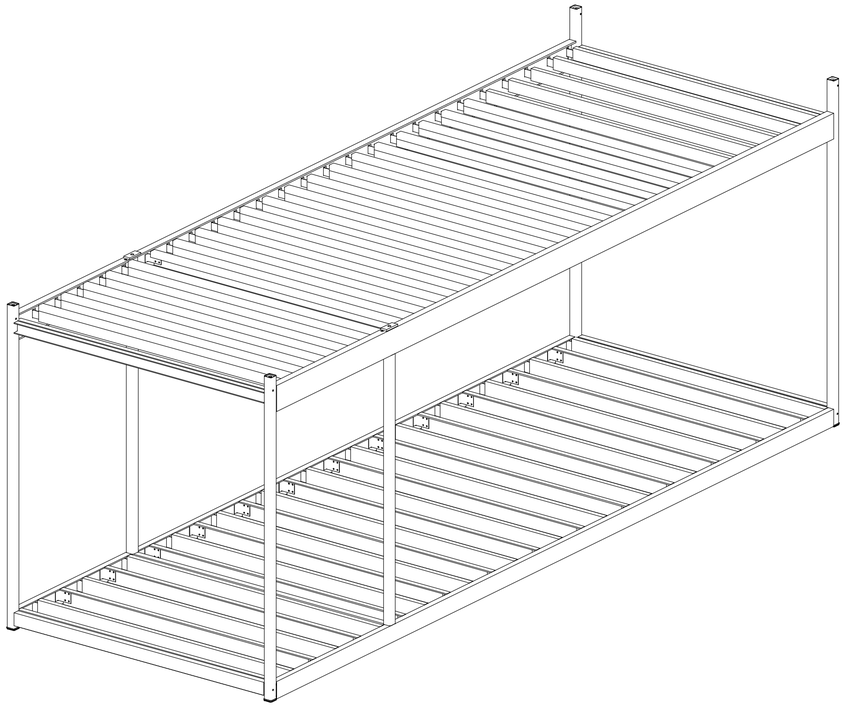
SCALE
1 : 100 @ A1

PROJECT | ORIGINATOR | ZONE | LEVEL | TYPE | ROLE | CLASS. | NUMBER
FS0816-STL-XX-RF-DR-A-00-8102

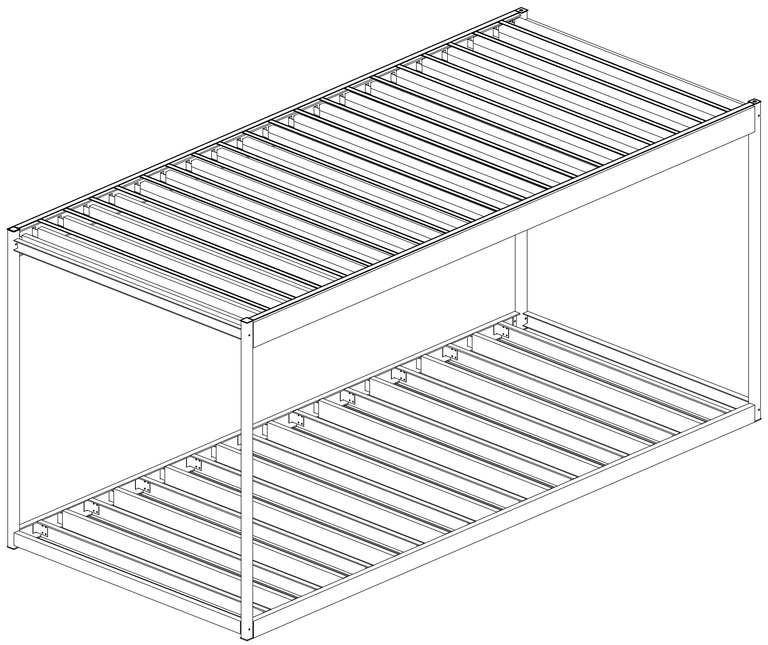
REVISION
P04



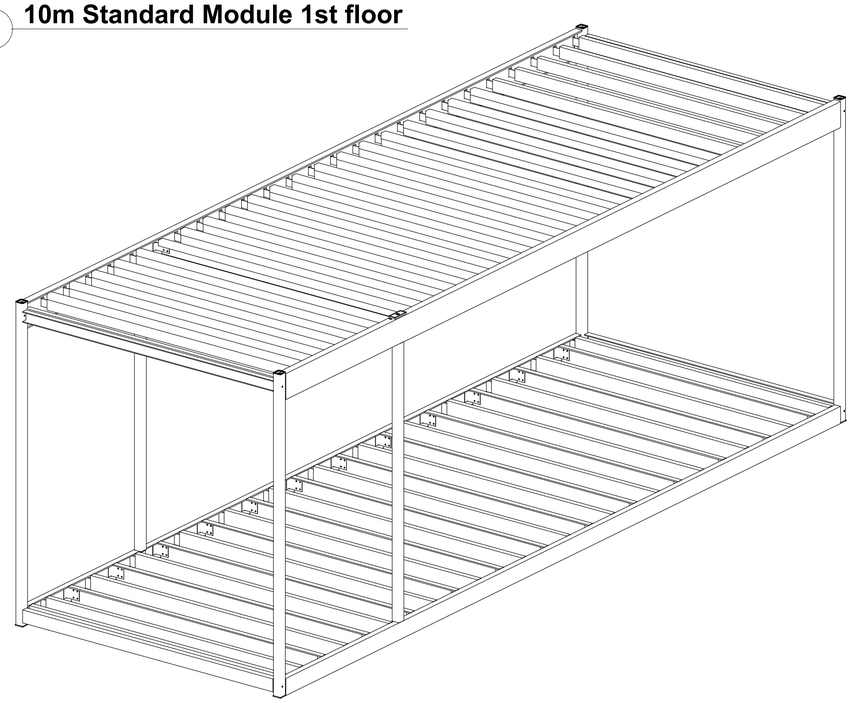
2 8m Standard Module 1st floor



4 10m Standard Module 1st floor



1 8m Standard Module Ground floor



3 10m Standard Module Ground floor

NOTES :

Rev.	Description.	Date	Chk	APP
P1	Information	22/04/20	TP	RF

Revision Schedule

Caledonian Modular
tel: +44 (0)1636 821645
www.caledonianmodular.com
enquiries@caledonianmodular.com

Sub-Contractor:

Client:

Project Name:
Buckton Fields Primary School

Sheet Name:
Standard Modules

Drg No: FS0816-CAL-XX-XX-DR-S-20-0004

Rev: P1

Scale @A1:

Date : See dwg

Drawn by : TP

Project Number : E0025

Project Status..Draft CP

1 **01 First Floor FFL**
1 : 100

1. This drawing has been prepared in accordance with the scope of CML's appointment with its clients and is subject to the terms and conditions of that appointment. CML accepts no liability for any use of this document other than by its client and only for the purposes for which it was prepared and provided.

2. This drawing is to be read in conjunction with all other relevant drawings and specifications for this project and apparent inconsistencies brought to the attention of the Project Design Manager.

3. Do not scale directly from drawing - if in doubt ask!

REVIEW STATUS:

- ☐ A - APPROVED, NO COMMENTS.
- ☐ B - APPROVED SUBJECT TO NOTED COMMENTS. (NO RE-SUBMISSION)
- ☐ C - NOT APPROVED, REVISE IN ACCORDANCE WITH COMMENTS AND RE-SUBMIT FOR APPROVAL.

SIGNED:

DATE:

FURNITURE KEY

FIXED (GP 1)	
LEGACY (GP 2)	
LOOSE (GP 3)	
EXCLUDED	

NOTES:

REV	REASON FOR REVISION	DATE	BY	CHK
P06	Missing Room Tags Added	28/07/2020	AH	
P05	Revision Updates	27/07/2020	AH	
P04	Clash Detection Updates	20/07/2020	AH	
P03	Latest Architectural Update	03/07/2020	AH	
P02	Revision 3 - Draft CP's - Re-named sheets	20/05/2020	AH	
P01	Revision 2 - Draft CP Comments	16/04/2020	AH	
-	Revision 1	25/03/2020	AH	

Caledonian

CLIENT:
PINNACLE

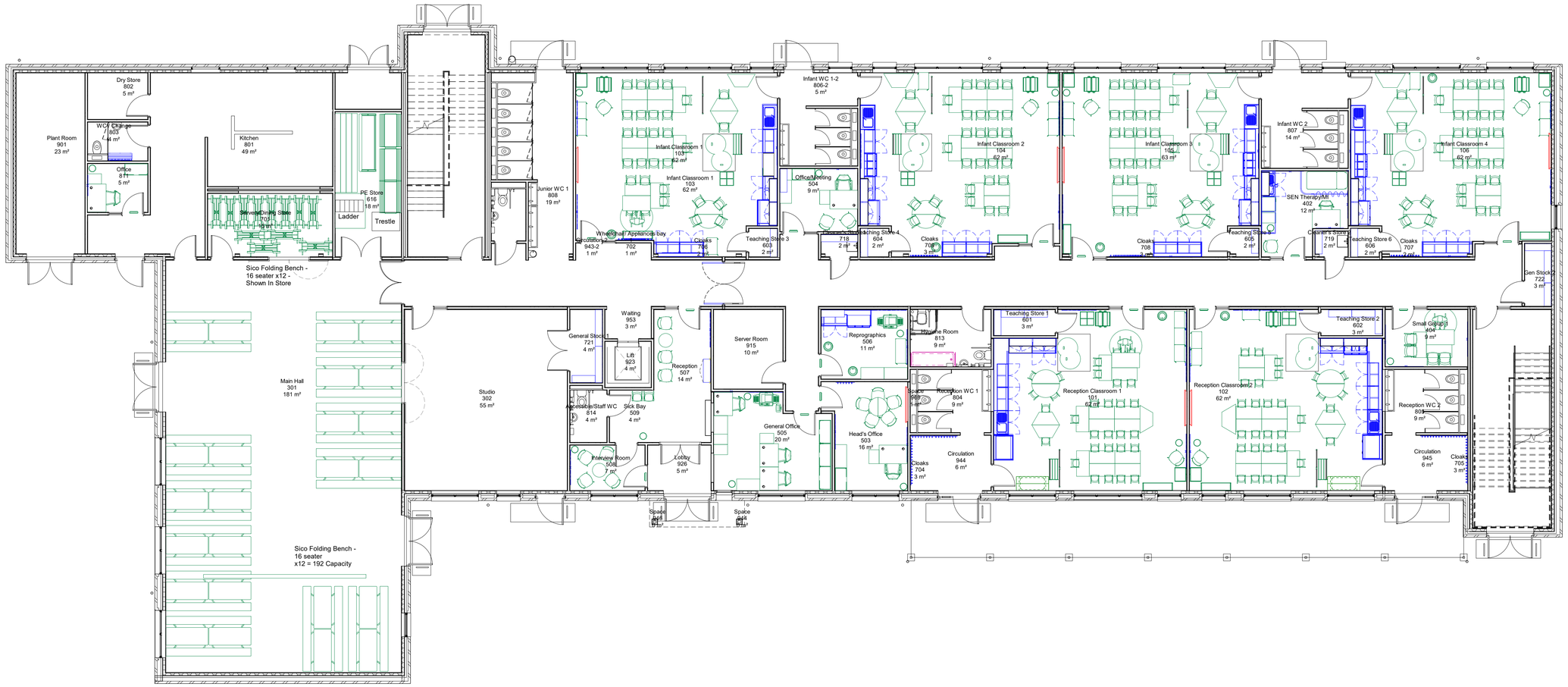
PROJECT REF:
BUCKTON FIELDS PRIMARY

DESCRIPTION:
FIRST FLOOR - GA

DOCUMENT REFERENCE No:

Project	Orig	Volume	Level	Type	Role	Class	Numeric
FS0816	PIN	MB	01	DR	I	40	1003

SCALE @ A1: 1 : 100 | REV: P06
CONTRACT NUMBER: FS0816 | DATE: 28/07/2020
INFORMATION STATUS: PRELIMINARY
SUBCONTRACTOR COMPANY TRADE NAME: pinnacle bringing learning spaces to life
SUBCONTRACTOR CONTRACT REF. No: 21485



1 **00 Ground Floor FFL**
1 : 100

REVIEW STATUS:

- ☐ A - APPROVED, NO COMMENTS.
- ☐ B - APPROVED SUBJECT TO NOTED COMMENTS. (NO RE-SUBMISSION)
- ☐ C - NOT APPROVED, REVISE IN ACCORDANCE WITH COMMENTS AND RE-SUBMIT FOR APPROVAL.

SIGNED:

DATE:

FURNITURE KEY

FIXED (GP 1)	
LEGACY (GP 2)	
LOOSE (GP 3)	
EXCLUDED	

NOTES:

REV	REASON FOR REVISION	DATE	BY	CHK
P07	Plan Updated	13/08/2020	FF	
P06	Missing Room Tags Added	28/07/2020	AH	
P05	Revision Updates	27/07/2020	AH	
P04	Clash Detection Updates	20/07/2020	AH	
P03	Latest Architectural Update	03/07/2020	AH	
P02	Revision 3 - Draft CP's - Re-named sheets	20/05/2020	AH	
P01	Revision 2 - Draft CP Comments	16/04/2020	AH	
-	Revision 1	25/03/2020	AH	

Caledonian

CLIENT:
PINNACLE

PROJECT REF:
BUCKTON FIELDS PRIMARY

DESCRIPTION:
GROUND FLOOR - GA

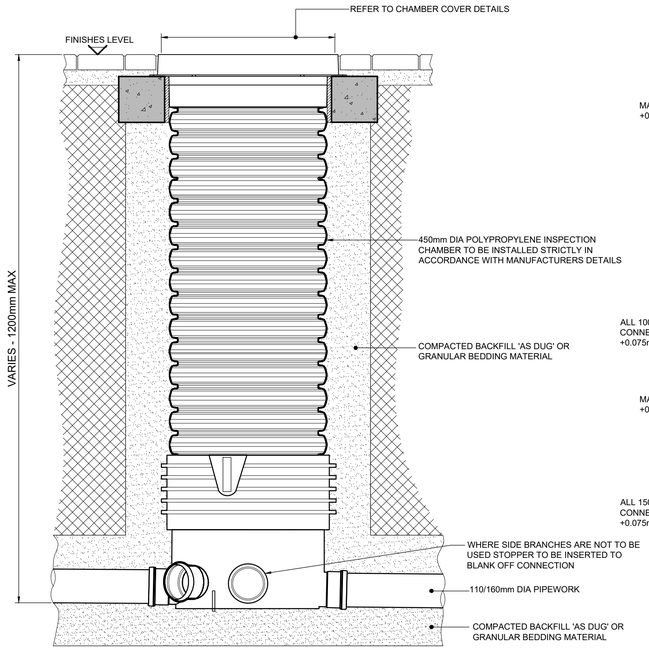
DOCUMENT REFERENCE No:

Project	Orig	Volume	Level	Type	Role	Class	Numeric
FS0816	PIN	MB	GF	DR	I	40	1002

SCALE @ A1: 1 : 100
REV: P07
CONTRACT NUMBER: FS0816
DATE: Issue Date
INFORMATION STATUS: PRELIMINARY

SUBCONTRACTOR COMPANY TRADE NAME
pinnacle bringing learning spaces to life

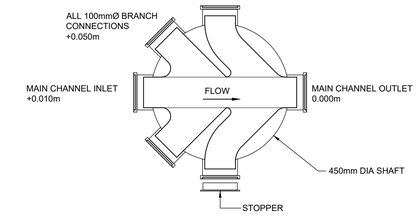
SUBCONTRACTOR CONTRACT REF. No
21485



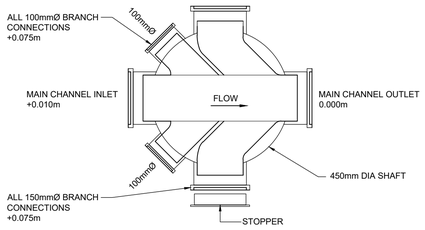
SECTIONAL ELEVATION

POLYPROPYLENE INSPECTION CHAMBER (PPIC)
MAXIMUM CHAMBER DEPTH 1.2m

SCALE 1:10

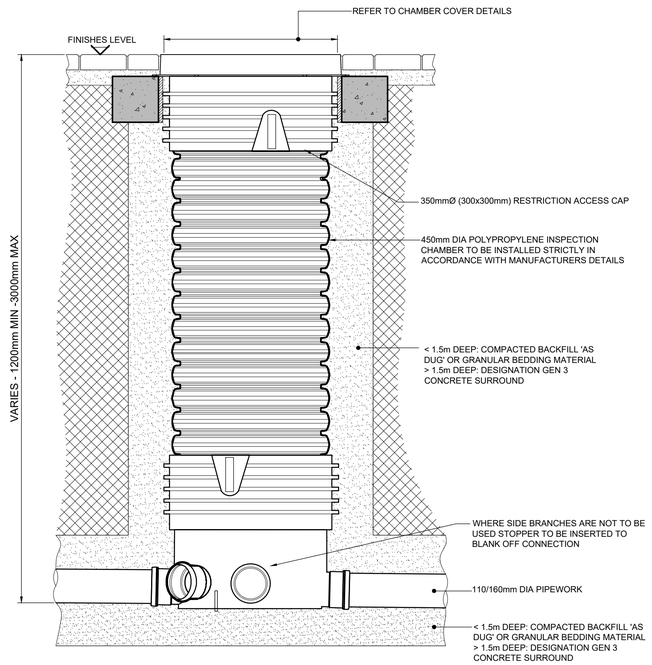


PLAN - CHAMBER
(100mm PIPEWORK)



PLAN - CHAMBER
(150mm PIPEWORK U.N.O)

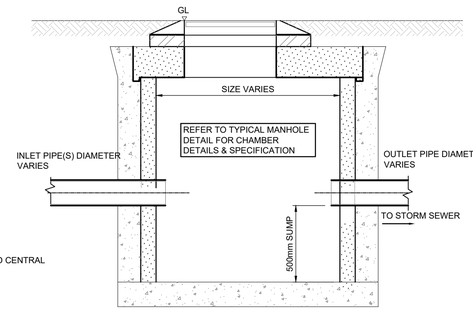
NOTES;
[1]. ALL COVER LEVELS ARE APPROXIMATE ONLY & SHOULD BE SET TO SUIT FINAL SURFACING LEVELS ON SITE.
[2]. MANUFACTURERS STOPPER PIECES TO BE USED ON ALL UNUSED INLETS ON ALL INSPECTION CHAMBERS.
[3].THE MAIN THROUGH CHANNEL MUST BE USED ON ALL INSPECTION CHAMBERS.
[4]. MAXIMUM 45 DEGREE BENDS MAY BE USED ON ANY INSPECTION CHAMBER INLET OR OUTLET TO SUIT PIPE ORIENTATION ON SITE.
[5]. AWP SHOULD BE INFORMED OF ANY DEVIATIONS FROM THE CHAMBER BASE AS SHOWN ON AWP 'PLAN CHAMBER' DETAILS, AS THIS WILL EFFECT GRADIENTS AND INVERT LEVELS OF CHAMBERS AND PIPE RUNS



SECTIONAL ELEVATION

REDUCED ACCESS POLYPROPYLENE INSPECTION CHAMBER (PPIC)
CHAMBER DEPTH >1.2m < 3.0m

SCALE 1:10



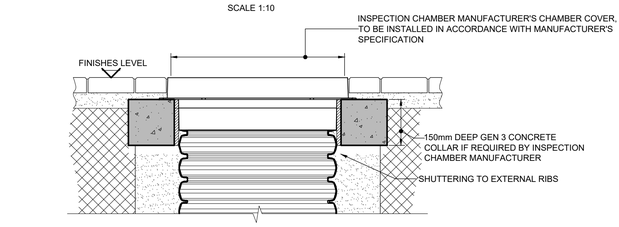
CATCHPIT MANHOLE

SCALE 1:20

PRIVATE DRAINAGE NOTES:

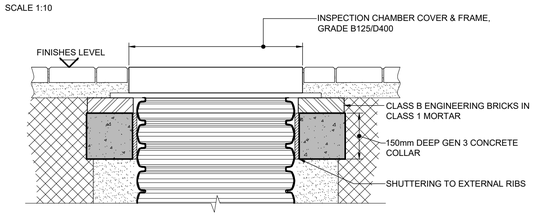
1. DRAINAGE SYSTEMS TO COMPLY WITH THE FOLLOWING STANDARDS:
   - BS EN 752:2008
   - BUILDING REGULATIONS APPROVED DOCUMENT PART H, 2015 EDITION
2. ALL COMPONENTS USED IN DRAINAGE SYSTEMS TO COMPLY WITH THE FOLLOWING: BS EN 476:2011
3. ALL DRAINAGE SYSTEMS AND COMPONENTS TO BE CONSTRUCTED AND TESTED TO THE FULL SATISFACTION OF BOTH BUILDING REGULATIONS AND WARRANTY PROVIDER INSPECTORS
4. ALL DRAINAGE TO BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH BS EN 1610:2015.
5. V.C. DENOTES VITRIFIED CLAY, VITRIFIED CLAY PIPES AND FITTINGS TO COMPLY WITH THE RELEVANT PROVISIONS OF BS EN295-1:2013,-2:2013,-3:2012 AND BS 65 RESPECTIVELY AND BE KITEMARKED. ALL PIPES SHALL BE EXTRA STRENGTH TO BS 65 OR EQUIVALENT BS EN295 PIPE CRUSHING STRENGTH.
6. LATERAL DRAIN CONNECTIONS (PIPES CONNECTING INTO ADOPTABLE SEWERS) TO BE VITRIFIED CLAY. WHERE COVER IS LESS THAN 1.2m TO GROUND LEVEL PIPE PROTECTION IS REQUIRED IN THE FORM OF A CONCRETE COVER SLAB.
7. PVC-U DENOTES UNPLASTISED POLYVINYL CHLORIDE . PVC-U PIPES AND FITTINGS TO COMPLY WITH THE RELEVANT PROVISIONS OF BS EN1401, BS EN13476-2 AND BS4660:1989/2000 RESPECTIVELY AND BE KITEMARKED.
8. PRECAST CONCRETE MANHOLES TO BE IN ACCORDANCE WITH BS EN 1917:2002 AND BS 5911-3:2010,-4:2002 AND TO BE KITEMARKED. PRECAST CONCRETE RINGS AND COVER SLABS TO CONCRETE PIPES TO BE JOINTED WITH CEMENT MORTAR UNLESS NOTED OTHERWISE.
9. INSITU AND PRECAST CONCRETE UNITS SHALL HAVE SULPHATE RESISTING PORTLAND CEMENT TO BS EN 197-1:2011.
10. POLYPROPYLENE INSPECTION CHAMBERS TO COMPLY WITH BS EN 13598-1:2010,-2:2016 AND BS 7158:2001 AND TO BE KITEMARKED.
11. MANHOLE COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015. MANHOLE COVERS AND FRAMES TO BE OF A NON-ROCKING DESIGN WITH CUSHION INSERTS AND KITEMARKED. LOAD CLASS A15 COVERS TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS B125 COVERS TO BE USED IN PRIVATE DRIVES; LOAD CLASS D400 COVERS TO BE USED IN PRIVATE ROADS. ALL COVERS TO BE BADGED "FW" OR "SW" AS APPROPRIATE. MANHOLE COVER SLABS AND ACCESS TO BE IN ACCORDANCE WITH CONCRETE PIPE ASSOCIATION TECHNICAL BULLETIN ISSUED SEPTEMBER 2001.
12. POLYPROPYLENE INSPECTION CHAMBER COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015. COVERS AND FRAMES TO BE OF A NON-ROCKING DESIGN WITH CUSHION INSERTS AND KITEMARKED. LOAD CLASS A15 COVERS TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS B125 COVERS TO BE USED IN PRIVATE DRIVES; LOAD CLASS D400 COVERS TO BE USED IN PRIVATE ROADS.
13. ROAD GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015 AND BE OF A NON-ROCKING DESIGN WITH LEFT HANDED CAPTIVE HINGE ACCESS AND BE KITEMARKED. LOAD CLASS D400 GRATES TO BE USED IN PRIVATE ROADS. TYPE D400:450 GRATE AND FRAME. MINIMUM AREA OF WATERWAY TO BE 1010cm².
14. YARD GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015 AND BE OF A NON-ROCKING DESIGN AND BE KITEMARKED. LOAD CLASS A15 GRATES TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS B125 GRATES TO BE USED IN PRIVATE DRIVES. TYPE B125:450 GRATE AND FRAME. MINIMUM AREA OF WATERWAY TO BE 900cm².
15. DRAINAGE CHANNELS TO BE ACO M100D 0.0 MULTIDRAIN CHANNEL OR SIMILAR APPROVED FITTED WITH SLOTTED DUCTILE IRON GRATING. GRATES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015 AND BE KITEMARKED. LOAD CLASS A15 GRATES TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS B125 GRATES TO BE USED IN PRIVATE DRIVES; LOAD CLASS D400 GRATES TO BE USED IN PRIVATE ROADS. SUMP UNIT AND SILT BUCKET UNITS TO BE USED ON ALL GULLIES.
16. CLASS Z BEDDING DETAIL SHALL BE PROVIDED:
   - WHERE COVER TO PIPE BARREL IS;
     i) <1.2m IN VEHICULAR TRAFFICKED AREAS
     ii) <0.9m IN AREAS INACCESSIBLE TO VEHICLES.
   - AT ALL ROAD GULLY, YARD GULLY, RWP, SVP AND DRAINAGE CHANNEL BRANCHES.
   - AREAS OF DEEP ROOTING VEGETATION.
   - PIPE RUNS NEAR BUILDINGS IN ACCORDANCE WITH TYPICAL SECTIONS ON AWP DRAWING 41632/3701.
   - WHERE TWO PIPES CROSS WITH A CLEAR GAP OF <300mm. CLASS Z SURROUND TO EXTEND A MINIMUM OF 1.0m FROM THE CENTRE OF THE CROSSING POINT & EXTENDED TO WITHIN 150mm OF THE NEAREST FLEXIBLE JOINT, WHERE REQUIRED.
17. NO MECHANICAL COMPACTION OF FILL MATERIAL WITHIN 300mm OF THE CROWN OF ANY PIPE.

THE VERSIONS OF BRITISH STANDARDS AND OTHER PUBLICATIONS LISTED ABOVE ARE CURRENT AT THE TIME OF THE DRAWING ISSUE. HOWEVER IF THESE HAVE BEEN REVISED OR UPDATED THEN THE NEWER VERSIONS SHOULD BE USED. ANY DISCREPANCIES SHOULD BE NOTIFIED TO AWP IMMEDIATELY.



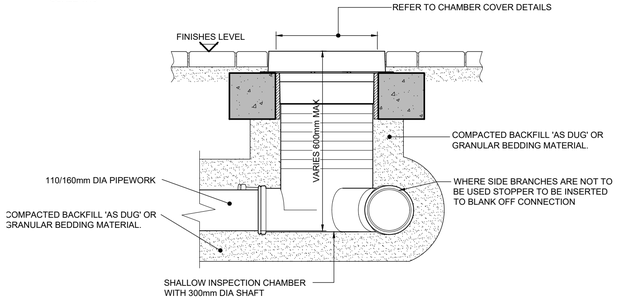
INSPECTION CHAMBER COVER DETAIL -
A15 GRADE: USE IN AREAS INACCESSIBLE TO VEHICLES ONLY

SCALE 1:10



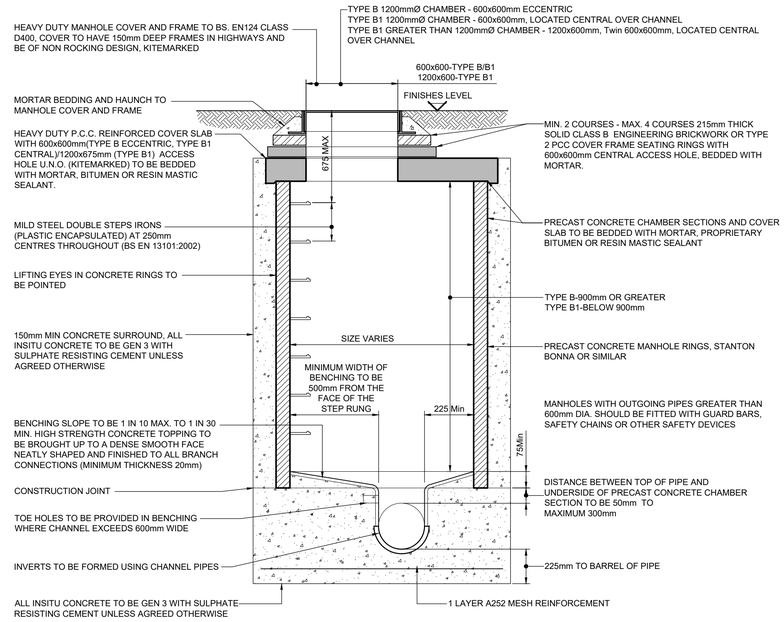
INSPECTION CHAMBER COVER DETAIL -
B125 GRADE: USE IN PRIVATE DRIVES
D400 GRADE: USE IN PRIVATE ROADS

SCALE 1:10



TYPICAL MINI ACCESS CHAMBER CONSTRUCTION DETAIL
MAXIMUM CHAMBER DEPTH 0.6m

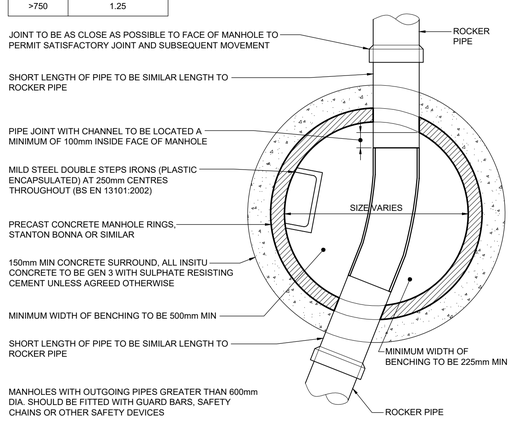
SCALE 1:10



SECTION
MANHOLE TYPE B - DEPTH 1.5-3.0m SOFFIT
MANHOLE TYPE B1 - DEPTH 1-1.5m SOFFIT

SCALE 1:20

ROCKER PIPE LENGTH	
NOM DIA (mm)	EFFECTIVE LENGTH (m)
150-600	0.60
601-750	1.00
>750	1.25



PLAN - TYPICAL

SCALE 1:20

NOTES:

REV	REASON FOR REVISION	DATE	BY	CHK
P02	PROPRIETY PRODUCTS NOTES REVISED	20.04.20	MJC	CD
P01	FIRST ISSUE	09.04.20	MJC	CD

Caledonian

CLIENT:
CALEDONIAN MODULAR

PROJECT REF:
BUCKTON FIELDS PRIMARY SCHOOL

DESCRIPTION:
DRAINAGE DETAILS (SHEET 1)

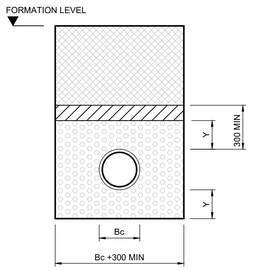
DOCUMENT REFERENCE No:

Project No.	Orig	Volume	Level	Type	Role	Chrono No.
FS0816	AWP	00	XX	DR	C	00-3700

SCALE @ A1: **AS NOTED** REV: **P02**
CONTRACT NUMBER: **FS0816** DATE: **09.04.20**
INFORMATION STATUS: **CP ISSUE**

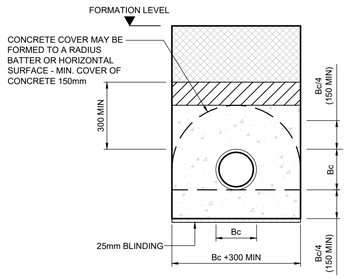
SUBCONTRACTOR COMPANY TRADE NAME
Alan Wood & Partners

SUBCONTRACTOR CONTRACT REF. No
43241



CLASS S BEDDING DETAIL

SCALE 1:20



CLASS Z CONCRETE BEDDING DETAIL

(EXTERNALLY AS PER NOTE 15 OF DRAINAGE NOTES)

SCALE 1:20

4/20 COARSE GRADED AGGREGATE GRADING TABLE	
SIEVE SIZE (mm)	PERCENTAGE PASSING (%)
40	100
31.5	98 - 100
20	90 - 99
10	25 - 70
4	0 - 15
2	0 - 5

TABLE 2: 4/20 COARSE GRADED AGGREGATE GRADING TABLE

NOMINAL PIPE DIA (mm)	SINGLE SIZED (mm)	GRADED (mm)
100	10	N/A
OVER 100 TO 150	10 OR 14	14 TO 5
OVER 150 TO 300	10,14 OR 20	14 TO 5 OR 20 TO 5
OVER 300 TO 525	14 OR 20	14 TO 5 OR 20 TO 5
GREATER THAN 525	14,20 OR 40	14 TO 5,20 TO 5 OR 40 TO 5

GRANULAR BEDDING MATERIAL TABLE.

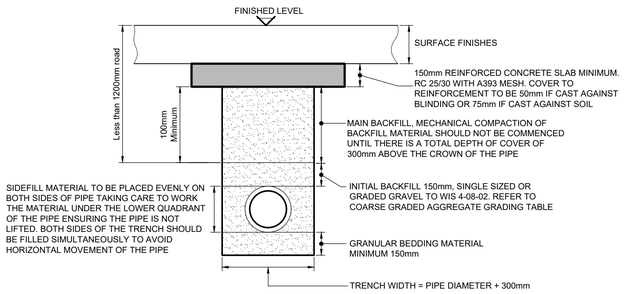
(ALL AGGREGATES TO BS EN 13242, PD 6682-6:2003 & BS EN 13055-2)

NOTES

A) Bc = OUTSIDE DIAMETER OF PIPE BARREL.

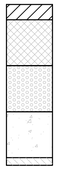
B) Y = FOR UNIFORM SOILS:
SLEEVE JOINTED PIPES, MIN. 50mm OR 1/6Bc, WHICHEVER IS THE GREATER. SOCKETED PIPE, MIN. 100mm OR 1/6Bc, WHICHEVER IS THE GREATER UNDER BARRELS, NOT LESS THAN 50mm UNDER SOCKETS. FOR ROCK OR MIXED SOILS CONTAINING ROCK BANDS, BOULDERS, STONES OR OTHER IRREGULAR HARD SPOTS: SLEEVE JOINTED PIPES, MIN. 150mm OR 1/4Bc, WHICHEVER IS THE GREATER. SOCKETED PIPE, MIN. 200mm OR 1/4Bc, WHICHEVER IS THE GREATER UNDER BARRELS, NOT LESS THAN 150mm UNDER SOCKETS.

CONCRETE BED AND SURROUND TO BE DISCONTINUED AT EVERY PIPE JOINT (NOT TO EXCEED 5m) USING COMPRESSIBLE FILLER. COMPRESSIBLE FILLER TO BE 18mm THICK FOR PIPEWORK UPTO 450mm DIAMETER, FOR PIPES OVER 450mm FLEXCELL JOINTS TO BE 36mm THICK



CONCRETE PROTECTION DETAIL - LATERAL DRAINS ONLY

PIPE BEDDING DETAIL KEY



SELECTED BACKFILL - SEE NOTE B2.

BACK FILL - TO STRUCTURAL ENGINEERS SPECIFICATION UNDER BUILDING & NOTES B3, B4 ELSEWHERE

GRANULAR MATERIAL - REFER TO GRANULAR BEDDING MATERIAL TABLE & NOTE B1

CONCRETE BEDDING - DESIGNATION GEN 3 - SEE NOTE B5.

CONCRETE BLINDING - DESIGNATION GEN 1 - SEE NOTE B5.

BEDDING NOTES:

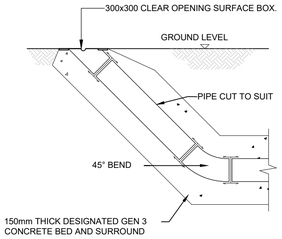
B1. PIPE BEDDING MATERIALS TO COMPLY GENERALLY WITH SHW - SERIES 500 - CLAUSE 503. GRANULAR BEDDING MATERIALS TO ALSO COMPLY WITH BS EN 13242 & THE GRANULAR BEDDING MATERIAL TABLE ON THIS DRAWING.

B2. SELECTED BACKFILL MATERIAL TO BE PROVIDED ABOVE THE PIPE SURROUND TO A HEIGHT OF 300mm MINIMUM ABOVE THE TOP OF THE PIPE. SELECTED BACKFILL MATERIAL TO BE CLASS 8 - LOWER TRENCH FILL MATERIAL IN ACCORDANCE WITH SHW - SERIES 600 TABLE 6/1 & TO COMPRISE OF UNIFORM SOIL, FREE FROM STONES LARGER THAN 40mm, LUMPS OF CLAY OVER 100mm, TIMBER, FROZEN MATERIAL & VEGETABLE MATTER. SELECTED BACKFILL MATERIAL TO BE PLACED & COMPACTED IN LAYERS NOT EXCEEDING 150mm IN THICKNESS. SHOULD THE MATERIAL BE UNSUITABLE OR WEATHER CONDITIONS AFFECT THE MATERIALS STABILITY, THEN A SUITABLE HARD GRANULAR MATERIAL SHALL BE USED.

B3. GENERAL BACKFILL TO DRAINAGE TRENCHES [OTHER THAN FILTER DRAINS] IN VEHICULAR TRAFFICKED AREAS ABOVE THE PIPE BEDDING & SELECTED BACKFILL SHALL BE CLASS 1, 2 OR 3 GENERAL FILL MATERIAL IN ACCORDANCE WITH SHW - SERIES 600.

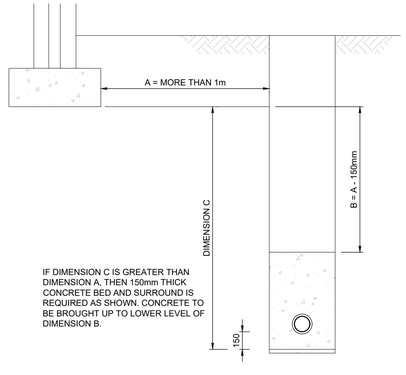
B4. GENERAL BACKFILL UNDER NON-VEHICULAR TRAFFICED AREAS TO BE SUITABLE AS-DUG MATERIAL COMPACTED IN ACCORDANCE WITH SHW - SERIES 600 IN LAYERS NOT EXCEEDING 225mm, EACH LAYER COMPACTED TO FORM A STABLE TRENCH BACKFILL, SHOULD THE MATERIAL BE UNSUITABLE OR WEATHER CONDITIONS AFFECT THE MATERIALS STABILITY, THEN A HARD GRANULAR MATERIAL SHALL BE USED UP TO FORMATION LEVEL.

B5. ALL CONCRETE TO BE DESIGNATED CONCRETE TO CONFORM TO BS 8500-2.

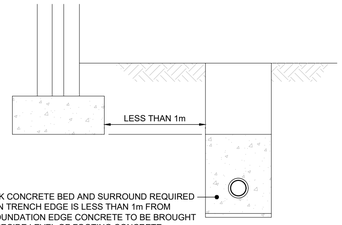


TYPICAL RODDING EYE DETAIL

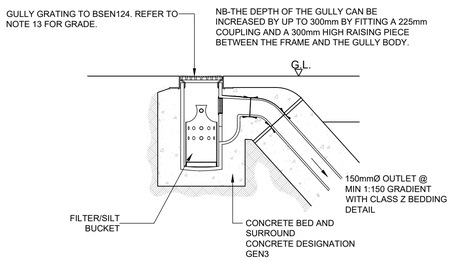
SCALE 1:20



DRAIN TRENCH EDGE MORE THAN 1m. FROM FOOTING/FOUNDATION EDGE



DRAIN TRENCH EDGE LESS THAN 1m. FROM FOOTING/FOUNDATION EDGE

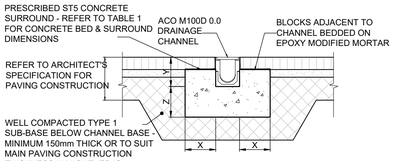


YARD GULLY

SCALE 1:20

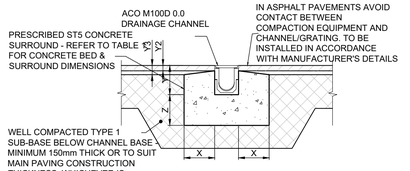
TABLE 1:
ACO MULTI DRAIN MD CONCRETE BED & SURROUND DIMENSIONS

LOAD CLASS		A15	B125	C250	D400
MINIMUM DIMENSIONS [mm]	X	100	150	150	200
	Y	FULL CHANNEL HEIGHT			
	Z	100	150	150	200
MAXIMUM DIMENSIONS [mm]	Y2	35	35	35	35
	Y3	100	60	60	60



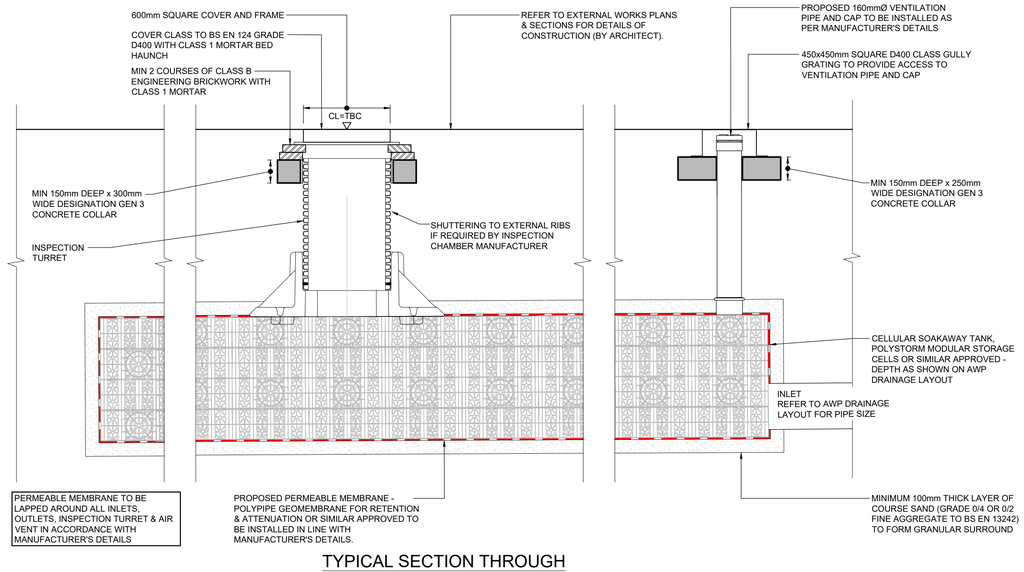
TYPICAL DRAINAGE CHANNEL DETAIL (BLOCK PAVING)

SCALE 1:20



TYPICAL DRAINAGE CHANNEL DETAIL (ASPHALT PAVEMENT)

SCALE 1:20



TYPICAL SECTION THROUGH CELLULAR SOAKAWAY TANK

SCALE 1:20

PRIVATE DRAINAGE NOTES:

1. DRAINAGE SYSTEMS TO COMPLY WITH THE FOLLOWING STANDARDS:
   - BS EN 752:2008
   - BUILDING REGULATIONS APPROVED DOCUMENT PART H, 2015 EDITION
2. ALL COMPONENTS USED IN DRAINAGE SYSTEMS TO COMPLY WITH THE FOLLOWING: BS EN 476:2011
3. ALL DRAINAGE SYSTEMS AND COMPONENTS TO BE CONSTRUCTED AND TESTED TO THE FULL SATISFACTION OF BOTH BUILDING REGULATIONS AND WARRANTY PROVIDER INSPECTORS
4. ALL DRAINAGE TO BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH BS EN 1610:2015.
5. V.C. DENOTES VITRIFIED CLAY, VITRIFIED CLAY PIPES AND FITTINGS TO COMPLY WITH THE RELEVANT PROVISIONS OF BS EN295-1:2013,-2:2013,-3:2012 AND BS 65 RESPECTIVELY AND BE KITEMARKED. ALL PIPES SHALL BE EXTRA STRENGTH TO BS 65 OR EQUIVALENT BS EN295 PIPE CRUSHING STRENGTH.
6. LATERAL DRAIN CONNECTIONS (PIPES CONNECTING INTO ADOPTABLE SEWERS) TO BE VITRIFIED CLAY. WHERE COVER IS LESS THAN 1.2m TO GROUND LEVEL PIPE PROTECTION IS REQUIRED IN THE FORM OF A CONCRETE COVER SLAB.
7. PVC-U DENOTES UNPLASTISED POLYVINYL CHLORIDE . PVC-U PIPES AND FITTINGS TO COMPLY WITH THE RELEVANT PROVISIONS OF BS EN1401, BS EN13476-2 AND BS4660:1989/2000 RESPECTIVELY AND BE KITEMARKED.
8. PRECAST CONCRETE MANHOLES TO BE IN ACCORDANCE WITH BS EN 1917:2002 AND BS 5911-3:2010,-4:2002 AND TO BE KITEMARKED. PRECAST CONCRETE RINGS AND COVER SLABS TO CONCRETE PIPES TO BE JOINTED WITH CEMENT MORTAR UNLESS NOTED OTHERWISE.
9. INSITU AND PRECAST CONCRETE UNITS SHALL HAVE SULPHATE RESISTING PORTLAND CEMENT TO BS EN 197-1:2011.
10. POLYPROPYLENE INSPECTION CHAMBERS TO COMPLY WITH BS EN 13598-1:2010,-2:2016 AND BS 7158:2001 AND TO BE KITEMARKED.
11. MANHOLE COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015. MANHOLE COVERS AND FRAMES TO BE OF A NON-ROCKING DESIGN WITH CUSHION INSERTS AND KITEMARKED. LOAD CLASS A15 COVERS TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS B125 COVERS TO BE USED IN PRIVATE DRIVES; LOAD CLASS D400 COVERS TO BE USED IN PRIVATE ROADS. ALL COVERS TO BE BADGED "FW" OR "SW" AS APPROPRIATE. MANHOLE COVER SLABS AND ACCESS TO BE IN ACCORDANCE WITH CONCRETE PIPE ASSOCIATION TECHNICAL BULLETIN ISSUED SEPTEMBER 2001.
12. POLYPROPYLENE INSPECTION CHAMBER COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015. COVERS AND FRAMES TO BE OF A NON-ROCKING DESIGN WITH CUSHION INSERTS AND KITEMARKED. LOAD CLASS A15 COVERS TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS B125 COVERS TO BE USED IN PRIVATE DRIVES; LOAD CLASS D400 COVERS TO BE USED IN PRIVATE ROADS.
13. ROAD GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015 AND BE OF A NON-ROCKING DESIGN WITH LEFT HANDED CAPTIVE HINGE ACCESS AND BE KITEMARKED. LOAD CLASS D400 GRATES TO BE USED IN PRIVATE ROADS. TYPE D400:450 GRATE AND FRAME. MINIMUM AREA OF WATERWAY TO BE 1010cm².
14. YARD GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015 AND BE OF A NON-ROCKING DESIGN AND BE KITEMARKED. LOAD CLASS A15 GRATES TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS B125 GRATES TO BE USED IN PRIVATE DRIVES. TYPE B125:450 GRATE AND FRAME. MINIMUM AREA OF WATERWAY TO BE 900cm².
15. DRAINAGE CHANNELS TO BE ACO M100D 0.0 MULTIDRAIN CHANNEL OR SIMILAR APPROVED FITTED WITH SLOTTED DUCTILE IRON GRATING. GRATES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015 AND BE KITEMARKED. LOAD CLASS A15 GRATES TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS B125 GRATES TO BE USED IN PRIVATE DRIVES; LOAD CLASS D400 GRATES TO BE USED IN PRIVATE ROADS. SUMP UNIT AND SILT BUCKET UNITS TO BE USED ON ALL GULLIES.
16. CLASS Z BEDDING DETAIL SHALL BE PROVIDED:
   - WHERE COVER TO PIPE BARREL IS;
     i) <1.2m IN VEHICULAR TRAFFICKED AREAS
     ii) <0.9m IN AREAS INACCESSIBLE TO VEHICLES.
   - AT ALL ROAD GULLY, YARD GULLY, RWP, SVP AND DRAINAGE CHANNEL BRANCHES.
   - AREAS OF DEEP ROOTING VEGETATION.
   - PIPE RUNS NEAR BUILDINGS IN ACCORDANCE WITH TYPICAL SECTIONS ON AWP DRAWING 41632/3701.
   - WHERE TWO PIPES CROSS WITH A CLEAR GAP OF <300mm. CLASS Z SURROUND TO EXTEND A MINIMUM OF 1.0m FROM THE CENTRE OF THE CROSSING POINT & EXTENDED TO WITHIN 150mm OF THE NEAREST FLEXIBLE JOINT, WHERE REQUIRED.
17. NO MECHANICAL COMPACTION OF FILL MATERIAL WITHIN 300mm OF THE CROWN OF ANY PIPE.

THE VERSIONS OF BRITISH STANDARDS AND OTHER PUBLICATIONS LISTED ABOVE ARE CURRENT AT THE TIME OF THE DRAWING ISSUE. HOWEVER IF THESE HAVE BEEN REVISED OR UPDATED THEN THE NEWER VERSIONS SHOULD BE USED. ANY DISCREPANCIES SHOULD BE NOTIFIED TO AWP IMMEDIATELY.

CONCRETE NOTES:

DESIGNATED CONCRETE:

1. ALL DESIGNATED CONCRETE TO CONFORM TO BS 8500-2

   DESIGNATION - GEN 1:
   - CEMENT TYPE - SRPC
   - MAXIMUM AGGREGATE SIZE - 20mm
   - CONSISTENCY CLASS - TO BE AGREED ON SITE

   DESIGNATION - GEN 3:
   - CEMENT TYPE - SRPC
   - MAXIMUM AGGREGATE SIZE - 20mm
   - CONSISTENCY CLASS - TO BE AGREED ON SITE

   DESIGNATION - RC 25/30:
   - CEMENT TYPE - SRPC
   - MAXIMUM AGGREGATE SIZE - 20mm
   - CONSISTENCY CLASS - TO BE AGREED ON SITE
2. NOMINAL COVER TO ALL REINFORCEMENT TO BE 50mm (UNLESS NOTED OTHERWISE).
3. ALL HIGH YIELD REINFORCEMENT (H BARS) TO BE GRADE 500.
4. BOTTOM STEEL REINFORCEMENT TO BR SUPPORTED ON 50x50x50mm DEEP CONCRETE BLOCKS OR SIMILAR, WIRED TO REINFORCEMENT.
5. TYING WIRE TO BE STAINLESS STEEL.
6. SPACING OF REINFORCEMENT TO BE ADJUSTED LOCALLY AS REQUIRED IN PARTICULAR TO AVOID HOLES, POCKETS, SOCKETS, RECESSES AND HOLDING DOWN BOLTS.
7. ALL EXPOSED EDGES TO HAVE 20x20mm CHAMFER.
8. IMMEDIATELY AFTER LAYING, CONCRETE SHALL BE PROTECTED FROM RAIN, RAPID TEMPERATURE CHANGE, FROST AND FROM DRYING OUT. ALSO MAINTAIN THE CONCRETE ABOVE 2° IN COLD WEATHER. THE METHODS USED SHALL BE IN ACCORDANCE WITH B.S. 5400, OR APPROVED BY THE ENGINEER.

STANDARDIZED PRESCRIBED CONCRETE:

1. ALL STANDARDIZED PRESCRIBED CONCRETE TO CONFORM TO BS 8500-2
2. STANDARDIZED PRESCRIBED CONCRETE MIX - ST5:
   - MAXIMUM AGGREGATE SIZE - 20mm
   - CONSISTENCY CLASS - S1
3. IMMEDIATELY AFTER LAYING, CONCRETE SHALL BE PROTECTED FROM RAIN, RAPID TEMPERATURE CHANGE, FROST AND FROM DRYING OUT. ALSO MAINTAIN THE CONCRETE ABOVE 2° IN COLD WEATHER. THE METHODS USED SHALL BE IN ACCORDANCE WITH B.S. 5400, OR APPROVED BY THE ENGINEER.

REV	REASON FOR REVISION	DATE	BY	CHK
P02	PROPRIETY PRODUCTS NOTES REVISED	20.04.20	MJC	CD
P01	FIRST ISSUE	09.04.20	MJC	CD

Caledonian

CLIENT:
CALEDONIAN MODULAR

PROJECT REF:
BUCKTON FIELDS PRIMARY SCHOOL

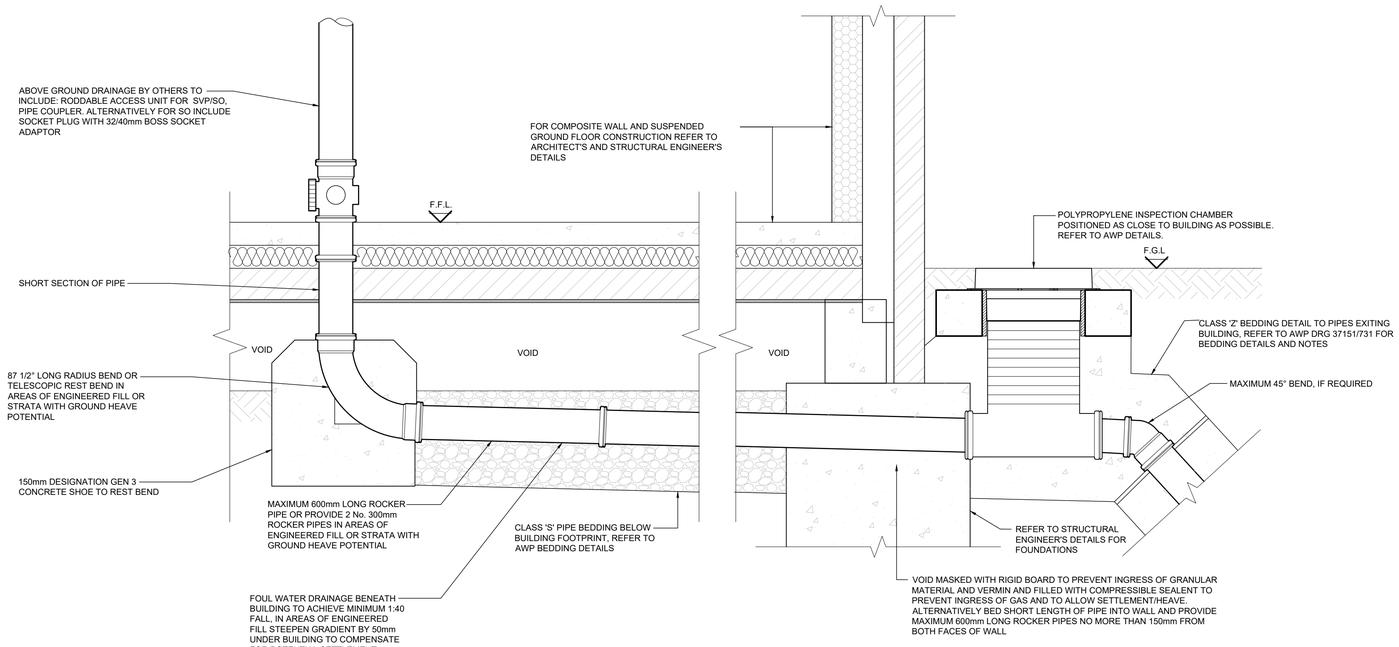
DESCRIPTION:
DRAINAGE DETAILS (SHEET 2)

DOCUMENT REFERENCE No:
FS0816 · AWP · 00 · XX · DR · C · 00-3701
Project No. · Orig · Volume · Level · Type · Role · Chrono No.

SCALE @ A1: **AS NOTED** | REV: **P02**
CONTRACT NUMBER: **FS0816** | DATE: **09.04.20**
INFORMATION STATUS: **CP ISSUE**

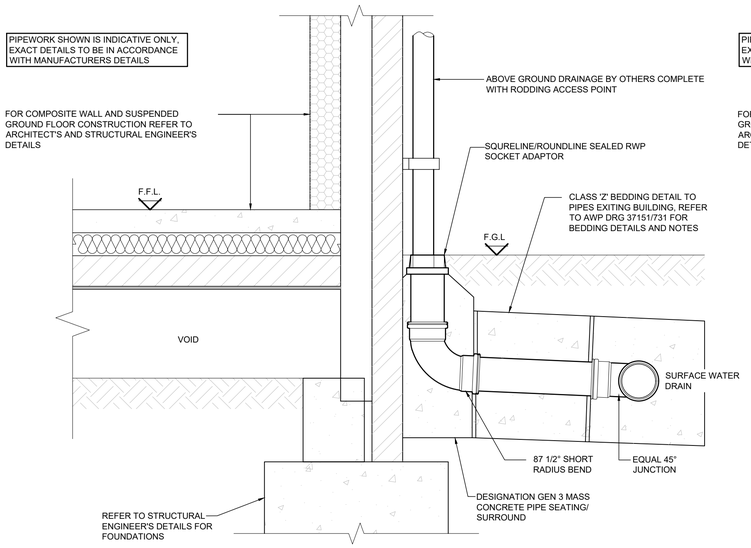
SUBCONTRACTOR COMPANY TRADE NAME
Alan Wood & Partners

SUBCONTRACTOR CONTRACT REF. No
43241



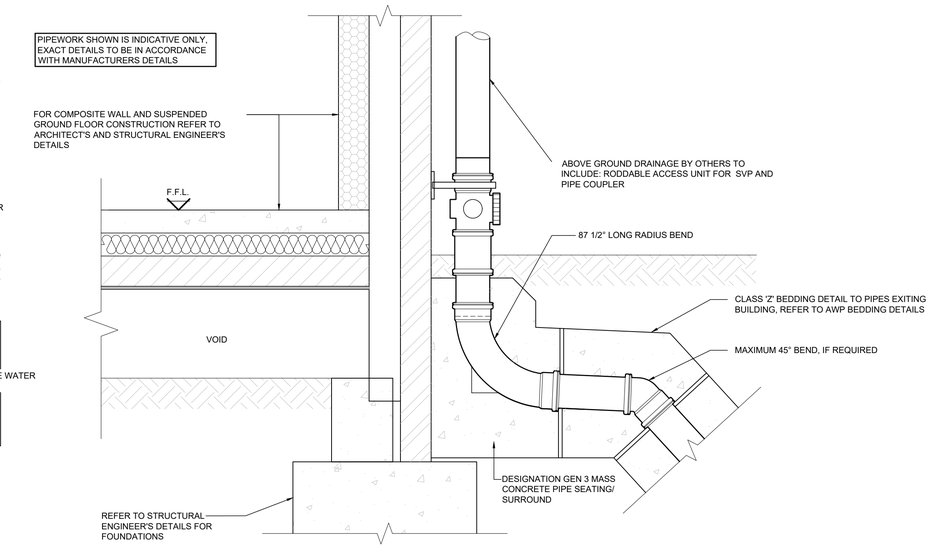
TYPICAL INTERNAL SVP/SS/SO TO DRAIN DETAIL

FOUL - SCALE 1:10



TYPICAL RWP TO DRAIN DETAIL

SURFACE - SCALE 1:10



TYPICAL EXTERNAL SVP TO DRAIN DETAIL

FOUL - SCALE 1:10

PRIVATE DRAINAGE NOTES:

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   - BUILDING REGULATIONS APPROVED DOCUMENT PART H, 2015 EDITION
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4. ALL DRAINAGE TO BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH BS EN 1610:2015.
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6. LATERAL DRAIN CONNECTIONS (PIPES CONNECTING INTO ADOPTABLE SEWERS) TO BE VITRIFIED CLAY. WHERE COVER IS LESS THAN 1.2m TO GROUND LEVEL PIPE PROTECTION IS REQUIRED IN THE FORM OF A CONCRETE COVER SLAB.
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     ii) <0.9m IN AREAS INACCESSIBLE TO VEHICLES.
   - AT ALL ROAD GULLY, YARD GULLY, RWP, SVP AND DRAINAGE CHANNEL BRANCHES.
   - AREAS OF DEEP ROOTING VEGETATION.
   - PIPE RUNS NEAR BUILDINGS IN ACCORDANCE WITH TYPICAL SECTIONS ON AWP DRAWING 37151/731.
   - WHERE TWO PIPES CROSS WITH A CLEAR GAP OF <300mm. CLASS Z SURROUND TO EXTEND A MINIMUM OF 1.0m FROM THE CENTRE OF THE CROSSING POINT & EXTENDED TO WITHIN 150mm OF THE NEAREST FLEXIBLE JOINT, WHERE REQUIRED.
17. NO MECHANICAL COMPACTION OF FILL MATERIAL WITHIN 300mm OF THE CROWN OF ANY PIPE.

THE VERSIONS OF BRITISH STANDARDS AND OTHER PUBLICATIONS LISTED ABOVE ARE CURRENT AT THE TIME OF THE DRAWING ISSUE. HOWEVER IF THESE HAVE BEEN REVISED OR UPDATED THEN THE NEWER VERSIONS SHOULD BE USED. ANY DISCREPANCIES SHOULD BE NOTIFIED TO AWP IMMEDIATELY.

CONCRETE NOTES:

DESIGNATED CONCRETE:

3. ALL DESIGNATED CONCRETE TO CONFORM TO BS 8500-2
   - DESIGNATION - GEN 3
   - CEMENT TYPE - SRPC
   - MAXIMUM AGGREGATE SIZE - 20mm
   - CONSISTENCY CLASS - TO BE AGREED ON SITE
4. ALL EXPOSED EDGES TO HAVE 20x20mm CHAMFER.
1. IMMEDIATELY AFTER LAYING, CONCRETE SHALL BE PROTECTED FROM RAIN, RAPID TEMPERATURE CHANGE, FROST AND FROM DRYING OUT. ALSO MAINTAIN THE CONCRETE ABOVE 2° IN COLD WEATHER. THE METHODS USED SHALL BE IN ACCORDANCE WITH B.S. 5400, OR APPROVED BY THE ENGINEER.

REV	REASON FOR REVISION	DATE	BY	CHK
P04	COMPOSITE DETAILS AMENDED	03.07.20	EL	CD
P03	NOTES REVISED TO REFER TO COMPOSITE DETAILS	21.05.20	EL	CD
P02	PROPRIETY PRODUCTS NOTES REVISED	20.04.20	MJC	CD
P01	FIRST ISSUE	09.04.20	MJC	CD

Caledonian

CLIENT:
CALEDONIAN MODULAR

PROJECT REF:
BUCKTON FIELDS PRIMARY SCHOOL

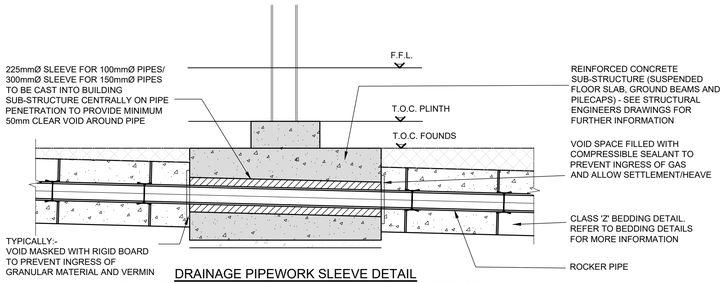
DESCRIPTION:
DRAINAGE DETAILS (SHEET 3)

DOCUMENT REFERENCE No:

Project No.	Orig	Volume	Level	Type	Role	Chrono No.
FS0816	AWP	00	XX	DR	C	00-3702

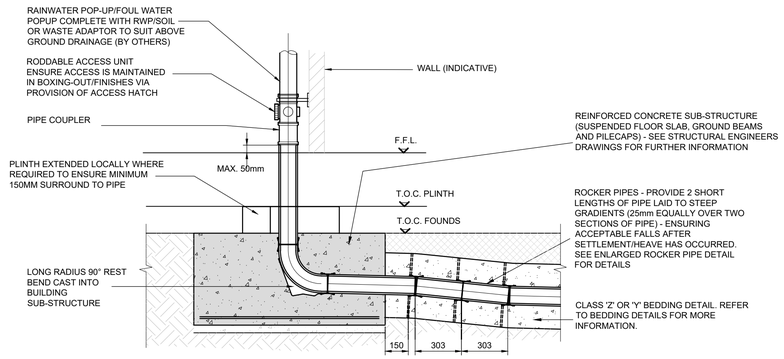
SCALE @ A1: **AS NOTED** | REV: **P04**
CONTRACT NUMBER: **FS0816** | DATE: **09.04.20**
INFORMATION STATUS: **CP ISSUE**

SUBCONTRACTOR COMPANY TRADE NAME: Alan Wood & Partners
SUBCONTRACTOR CONTRACT REF. No: **43241**



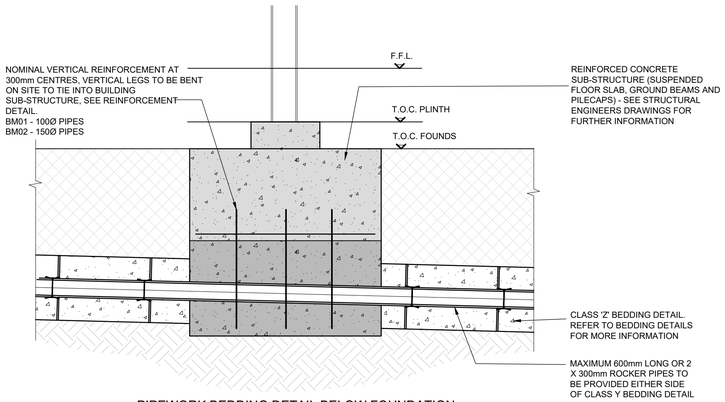
DRAINAGE PIPEWORK SLEEVE DETAIL
(ONLY WHERE PIPE SOFFIT >300mm FROM UNDERSIDE OF STRUCTURE, OTHERWISE CAST IN WITH CLASS Y BEDDING DETAIL)

WHERE PIPEWORK RUNS THROUGH BUILDING SUB-STRUCTURE

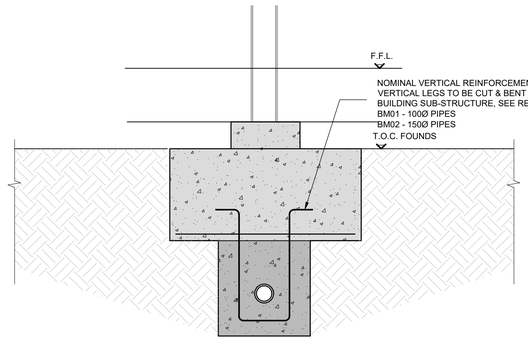


DRAINAGE STACK DETAIL 3 - REST BEND CAST INTO BUILDING SUB-STRUCTURE

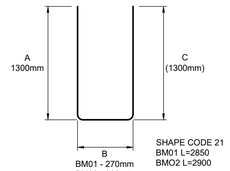
(ALLOWANCE FOR HEAVE/SETTLEMENT OF DOWNSTREAM PIPEWORK)



PIPEWORK BEDDING DETAIL BELOW FOUNDATION



PIPEWORK BEDDING DETAIL BELOW FOUNDATION
TYPICAL SECTION



REINFORCEMENT DETAIL
SCALE 1:20

PRIVATE DRAINAGE NOTES:

1. DRAINAGE SYSTEMS TO COMPLY WITH THE FOLLOWING STANDARDS:
   - BS EN 752:2008
   - BUILDING REGULATIONS APPROVED DOCUMENT PART H, 2015 EDITION
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3. ALL DRAINAGE SYSTEMS AND COMPONENTS TO BE CONSTRUCTED AND TESTED TO THE FULL SATISFACTION OF BOTH BUILDING REGULATIONS AND WARRANTY PROVIDER INSPECTORS
4. ALL DRAINAGE TO BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH BS EN 1610:2015.
5. V.C. DENOTES VITRIFIED CLAY, VITRIFIED CLAY PIPES AND FITTINGS TO COMPLY WITH THE RELEVANT PROVISIONS OF BS EN295-1:2013,-2:2013,-3:2012 AND BS 65 RESPECTIVELY AND BE KITEMARKED. ALL PIPES SHALL BE EXTRA STRENGTH TO BS 65 OR EQUIVALENT BS EN295 PIPE CRUSHING STRENGTH.
6. LATERAL DRAIN CONNECTIONS (PIPES CONNECTING INTO ADOPTABLE SEWERS) TO BE VITRIFIED CLAY. WHERE COVER IS LESS THAN 1.2m TO GROUND LEVEL PIPE PROTECTION IS REQUIRED IN THE FORM OF A CONCRETE COVER SLAB.
7. PVC-U DENOTES UNPLASTISED POLYVINYL CHLORIDE . PVC-U PIPES AND FITTINGS TO COMPLY WITH THE RELEVANT PROVISIONS OF BS EN1401, BS EN13476-2 AND BS4660:1989/2000 RESPECTIVELY AND BE KITEMARKED.
8. PRECAST CONCRETE MANHOLES TO BE IN ACCORDANCE WITH BS EN 1917:2002 AND BS 5911-3:2010,-4:2002 AND TO BE KITEMARKED. PRECAST CONCRETE RINGS AND COVER SLABS TO CONCRETE PIPES TO BE JOINTED WITH CEMENT MORTAR UNLESS NOTED OTHERWISE.
9. INSITU AND PRECAST CONCRETE UNITS SHALL HAVE SULPHATE RESISTING PORTLAND CEMENT TO BS EN 197-1:2011.
10. POLYPROPYLENE INSPECTION CHAMBERS TO COMPLY WITH BS EN 13598-1:2010,-2:2016 AND BS 7158:2001 AND TO BE KITEMARKED.
11. MANHOLE COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015. MANHOLE COVERS AND FRAMES TO BE OF A NON-ROCKING DESIGN WITH CUSHION INSERTS AND KITEMARKED. LOAD CLASS A15 COVERS TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS B125 COVERS TO BE USED IN PRIVATE DRIVES; LOAD CLASS D400 COVERS TO BE USED IN PRIVATE ROADS. ALL COVERS TO BE BADGED "FW" OR "SW" AS APPROPRIATE. MANHOLE COVER SLABS AND ACCESS TO BE IN ACCORDANCE WITH CONCRETE PIPE ASSOCIATION TECHNICAL BULLETIN ISSUED SEPTEMBER 2001.
12. POLYPROPYLENE INSPECTION CHAMBER COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015. COVERS AND FRAMES TO BE OF A NON-ROCKING DESIGN WITH CUSHION INSERTS AND KITEMARKED. LOAD CLASS A15 COVERS TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS B125 COVERS TO BE USED IN PRIVATE DRIVES; LOAD CLASS D400 COVERS TO BE USED IN PRIVATE ROADS.
13. ROAD GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015 AND BE OF A NON-ROCKING DESIGN WITH LEFT HANDED CAPTIVE HINGE ACCESS AND BE KITEMARKED. LOAD CLASS D400 GRATES TO BE USED IN PRIVATE ROADS. TYPE D400:450 GRATE AND FRAME. MINIMUM AREA OF WATERWAY TO BE 1010cm².
14. YARD GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015 AND BE OF A NON-ROCKING DESIGN AND BE KITEMARKED. LOAD CLASS A15 GRATES TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS B125 GRATES TO BE USED IN PRIVATE DRIVES. TYPE B125:450 GRATE AND FRAME. MINIMUM AREA OF WATERWAY TO BE 900cm².
15. DRAINAGE CHANNELS TO BE ACO M100D 0.0 MULTIDRAIN CHANNEL OR SIMILAR APPROVED FITTED WITH SLOTTED DUCTILE IRON GRATING. GRATES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015 AND BE KITEMARKED. LOAD CLASS A15 GRATES TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS B125 GRATES TO BE USED IN PRIVATE DRIVES; LOAD CLASS D400 GRATES TO BE USED IN PRIVATE ROADS. SUMP UNIT AND SILT BUCKET UNITS TO BE USED ON ALL GULLIES.
16. CLASS Z BEDDING DETAIL SHALL BE PROVIDED:
   - WHERE COVER TO PIPE BARREL IS;
     i) <1.2m IN VEHICULAR TRAFFICKED AREAS
     ii) <0.9m IN AREAS INACCESSIBLE TO VEHICLES.
   - AT ALL ROAD GULLY, YARD GULLY, RWP, SVP AND DRAINAGE CHANNEL BRANCHES.
   - AREAS OF DEEP ROOTING VEGETATION.
   - PIPE RUNS NEAR BUILDINGS IN ACCORDANCE WITH TYPICAL SECTIONS ON AWP DRAWING 37151/731.
   - WHERE TWO PIPES CROSS WITH A CLEAR GAP OF <300mm. CLASS Z SURROUND TO EXTEND A MINIMUM OF 1.0m FROM THE CENTRE OF THE CROSSING POINT & EXTENDED TO WITHIN 150mm OF THE NEAREST FLEXIBLE JOINT, WHERE REQUIRED.
17. NO MECHANICAL COMPACTION OF FILL MATERIAL WITHIN 300mm OF THE CROWN OF ANY PIPE.

THE VERSIONS OF BRITISH STANDARDS AND OTHER PUBLICATIONS LISTED ABOVE ARE CURRENT AT THE TIME OF THE DRAWING ISSUE. HOWEVER IF THESE HAVE BEEN REVISED OR UPDATED THEN THE NEWER VERSIONS SHOULD BE USED. ANY DISCREPANCIES SHOULD BE NOTIFIED TO AWP IMMEDIATELY.

CONCRETE NOTES:

DESIGNATED CONCRETE:

3. ALL DESIGNATED CONCRETE TO CONFORM TO BS 8500-2
   - DESIGNATION - GEN 3
   - CEMENT TYPE - SRPC
   - MAXIMUM AGGREGATE SIZE - 20mm
   - CONSISTENCY CLASS - TO BE AGREED ON SITE
4. ALL EXPOSED EDGES TO HAVE 20x20mm CHAMFER.
1. IMMEDIATELY AFTER LAYING, CONCRETE SHALL BE PROTECTED FROM RAIN, RAPID TEMPERATURE CHANGE, FROST AND FROM DRYING OUT. ALSO MAINTAIN THE CONCRETE ABOVE 2° IN COLD WEATHER. THE METHODS USED SHALL BE IN ACCORDANCE WITH B.S. 5400, OR APPROVED BY THE ENGINEER.

REV	REASON FOR REVISION	DATE	BY	CHK
P02	PROPRIETY PRODUCTS NOTES REVISED	20.04.20	MJC	CD
P01	FIRST ISSUE	09.04.20	MJC	CD

Caledonian

CLIENT:
CALEDONIAN MODULAR

PROJECT REF:
BUCKTON FIELDS PRIMARY SCHOOL

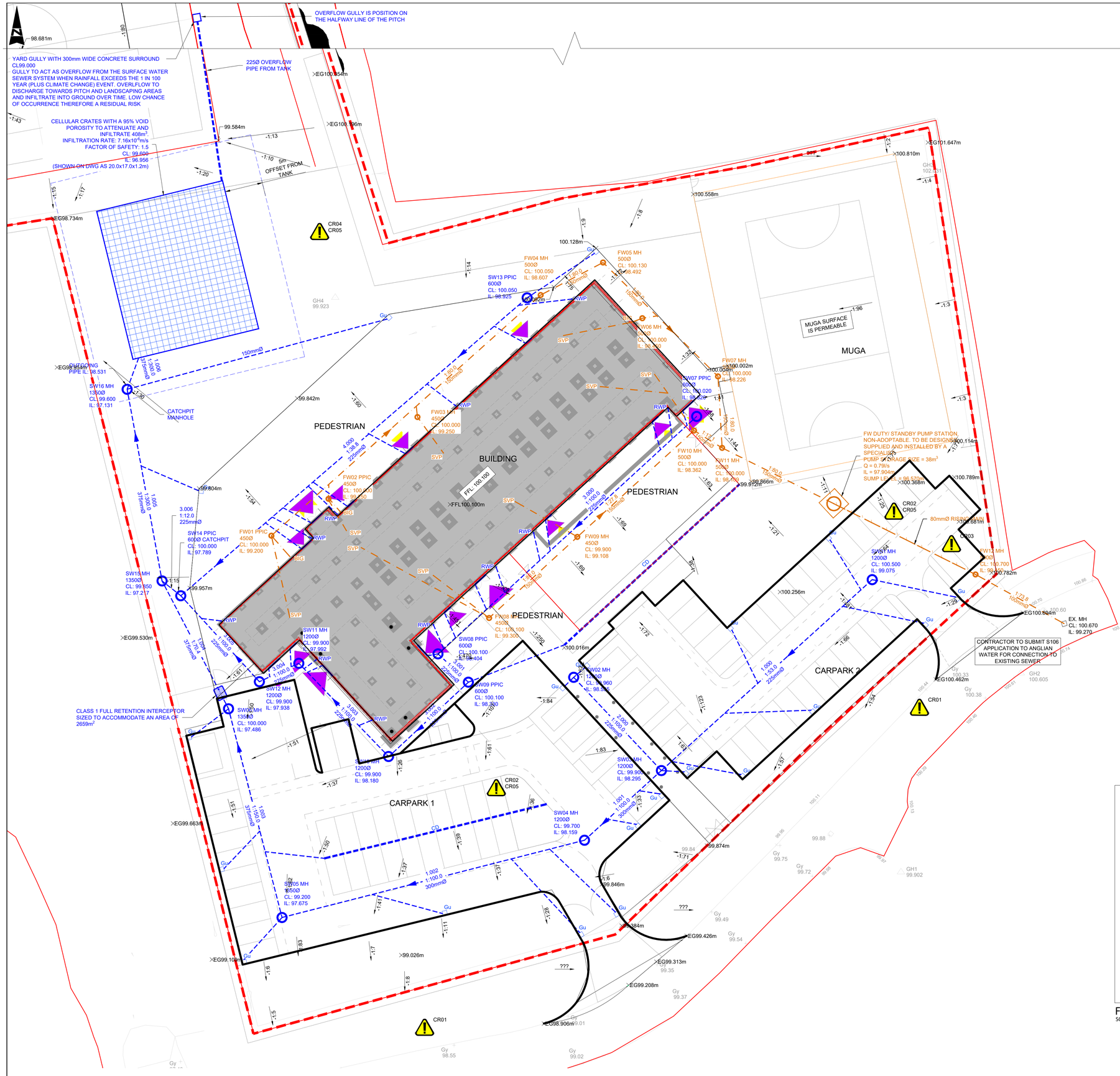
DESCRIPTION:
DRAINAGE DETAILS (SHEET 4)

DOCUMENT REFERENCE No:

Project No.	Orig.	Volume	Level	Type	Role	Chrono No.
FS0816	AWP	00	XX	DR	C	00-3703

SCALE @ A1: **AS NOTED** | REV: **P02**
CONTRACT NUMBER: **FS0816** | DATE: **09.04.20**
INFORMATION STATUS: **CP ISSUE**

SUBCONTRACTOR COMPANY TRADE NAME: Alan Wood & Partners
SUBCONTRACTOR CONTRACT REF. No: **43241**



FULL SITE PLAN
SCALE: 1:2500

PRIVATE DRAINAGE NOTES:

1. DRAINAGE SYSTEMS TO COMPLY WITH THE FOLLOWING STANDARDS:
   - BS EN 752:2008
   - BUILDING REGULATIONS APPROVED DOCUMENT PART H, 2015 EDITION
2. ALL COMPONENTS USED IN DRAINAGE SYSTEMS TO COMPLY WITH THE FOLLOWING: BS EN 476:2011
3. ALL DRAINAGE SYSTEMS AND COMPONENTS TO BE CONSTRUCTED AND TESTED TO THE FULL SATISFACTION OF BOTH BUILDING REGULATIONS AND WARRANTY PROVIDER INSPECTORS
4. ALL DRAINAGE TO BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH BS EN 1610:2015.
5. V.C. DENOTES VITRIFIED CLAY, VITRIFIED CLAY PIPES AND FITTINGS TO COMPLY WITH THE RELEVANT PROVISIONS OF BS EN295-1:2013,-2:2013,-3:2012 AND BS 65 RESPECTIVELY AND BE KITEMARKED. ALL PIPES SHALL BE EXTRA STRENGTH TO BS 65 OR EQUIVALENT BS EN295 PIPE CRUSHING STRENGTH.
6. LATERAL DRAIN CONNECTIONS (PIPES CONNECTING INTO ADOPTABLE SEWERS) TO BE VITRIFIED CLAY. WHERE COVER IS LESS THAN 1.2m TO GROUND LEVEL PIPE PROTECTION IS REQUIRED IN THE FORM OF A CONCRETE COVER SLAB.
7. PVC-U DENOTES UNPLASTISED POLYVINYL CHLORIDE . PVC-U PIPES AND FITTINGS TO COMPLY WITH THE RELEVANT PROVISIONS OF BS EN1401, BS EN13476-2 AND BS4660:1989/2000 RESPECTIVELY AND BE KITEMARKED.
8. PRECAST CONCRETE MANHOLES TO BE IN ACCORDANCE WITH BS EN 1917:2002 AND BS 5911-3:2010,-4:2002 AND TO BE KITEMARKED. PRECAST CONCRETE RINGS AND COVER SLABS TO CONCRETE PIPES TO BE JOINTED WITH CEMENT MORTAR UNLESS NOTED OTHERWISE.
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10. POLYPROPYLENE INSPECTION CHAMBERS TO COMPLY WITH BS EN 13598-1:2010,-2:2016 AND BS 7158:2001 AND TO BE KITEMARKED.
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13. CLASS Z BEDDING DETAIL SHALL BE PROVIDED:
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   - AT ALL ROAD GULLY, YARD GULLY, RWP, SVP AND DRAINAGE CHANNEL BRANCHES.
   - AREAS OF DEEP ROOTING VEGETATION.
   - PIPE RUNS NEAR BUILDINGS IN ACCORDANCE WITH TYPICAL SECTIONS ON AWP DETAILS DRAWING.
   - WHERE TWO PIPES CROSS WITH A CLEAR GAP OF <300MM. CLASS Z SURROUND TO EXTEND A MINIMUM OF 1.0M FROM THE CENTRE OF THE CROSSING POINT & EXTENDED TO WITHIN 150MM OF THE NEAREST FLEXIBLE JOINT, WHERE REQUIRED.
14. NO MECHANICAL COMPACTION OF FILL MATERIAL WITHIN 300MM OF THE CROWN OF ANY PIPE.

RAIN WATER PIPE POSITIONS SHOWN ARE AS ARCHITECT'S (STRIDE TREGLOWN) DETAILS. TO BE READ IN CONJUNCTION WITH ARCHITECT'S INFORMATION.

INTERNAL POP UP POSITIONS SHOWN INDICATIVELY ONLY. LOCATIONS TBC BY M&E ENGINEER/ ARCHITECT.

ALL INTERNAL POP UPS TO HAVE INTERNAL RODDING ACCESS.

INTERNAL POP UPS TO BE SET OUT BY M&E ENGINEER/ ARCHITECT. AWP ARE TO BE MADE AWARE OF ANY VARIANCES IN POSITIONS.

ALL SHOWER GULLIES TO BE TRAPPED TO PREVENT INGRESS OF SMELLS.

KITCHEN POP-UP POSITIONS BY KITCHEN SPECIALIST/M&E CONSULTANT. ALLOWANCE TO BE MADE FOR INTERNAL GREASE TRAPS/DOSING TREATMENT.

NOTES:

1. This drawing has been prepared in accordance with the scope of CML's appointment with its clients and is subject to the terms and conditions of that appointment. CML accepts no liability for any use of this document other than by its client and only for the purposes for which it was prepared and provided.
2. This drawing is to be read in conjunction with all other relevant drawings and specifications for this project and apparent inconsistencies brought to the attention of the Project Design Manager.
3. Do not scale directly from drawing - if in doubt ask!

DRAINAGE KEY

- PROPOSED SW DRAIN
- RWP — PROPOSED SW RAINWATER PIPE, C/W ACCESS PIPE & COVER FOR MAINTENANCE WHERE EXTERNAL. ALL PIPEWORK TO BE 100Ø. REFER TO ARCHITECT'S DRAWINGS FOR LOCATION.
- CD — PROPOSED SW DRAINAGE CHANNEL - ACO M100D 0.0 C/W CLASS B125 COVERS WITH LOCKABLE GRATING OR SIMILAR APPROVED
- THRESHOLD CHANNEL DRAIN
- Gu — PROPOSED SW GULLY
- SURFACE WATER ATTENUATION / SOAKAWAY TANK (PERMEABLE GEOCELLULAR)
- PROPOSED FW DRAIN
- SVP — PROPOSED FW POP-UP - BRANCH PIPEWORK 100Ø @ MIN. 1/40.
- BIG — BACK INLET GULLY - BRANCH PIPEWORK 100Ø @ MIN. 1/40.
- PROPOSED FW RISING MAIN
- SITE BOUNDARY

HEALTH & SAFETY RISKS

IN ADDITION TO THE STANDARD HAZARDS AND RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED ON THIS DRAWING, PLEASE NOTE THE FOLLOWING RESIDUAL HEALTH AND SAFETY RISKS

CONSTRUCTION RISKS

CR 01	CONSTRUCTION IN AND AROUND EXISTING BURIED SERVICES - REFER TO SERVICES RECORDS.
CR 02	LIVE TRAFFIC WORK ON THE SITE
CR 03	LIVE SEWERAGE.
CR 04	CARE TO BE TAKEN AROUND DEEP EXCAVATIONS. PLANT TO BE KEPT AT SAFE DISTANCE.
CR 05	ARSENIC LEVELS IN-SITU MATERIAL TO BE MONITORED DURING EARTH WORKS STAGE OF CONSTRUCTION

OPERATION & MAINTENANCE RISKS

MR 01	OPERATION AND MAINTENANCE TO BE THE RESPONSIBILITY OF THE SCHOOL AND MAINTAINED AS PART OF THEIR REGULAR ON SITE MAINTENANCE ROUTINE.
MR 02	ANCILLARY COMPONENTS TO BE MAINTAINED TO MANUFACTURERS GUIDELINES.

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING IN ACCORDANCE WITH THE REQUIREMENTS DEFINED IN THE CDM REGULATIONS.

JOB NO: 43241 - DRAWING REFERENCE TABLE

This Drawing to be Read in Conjunction with the Drawings Listed Below

Alan Wood & Partners	Drawing Reference
Proposed Drainage Layout	FS0816 - AWP - ZZ - XX - DR - C - 00-3001
Impermeable Areas Layout	FS0816 - AWP - ZZ - XX - DR - C - 00-3002
Surface Water Exceedance Flood Routing	FS0816 - AWP - ZZ - XX - DR - C - 00-3003
Earth Bund Plan & Details	FS0816 - AWP - ZZ - XX - DR - C - 00-3010
Drainage Details (Sheet 1)	FS0816 - AWP - ZZ - XX - DR - C - 00-3700
Drainage Details (Sheet 2)	FS0816 - AWP - ZZ - XX - DR - C - 00-3701
Drainage Details (Sheet 3)	FS0816 - AWP - ZZ - XX - DR - C - 00-3702
Drainage Details (Sheet 4)	FS0816 - AWP - ZZ - XX - DR - C - 00-3703
Kerbing Layout and Details	FS0816 - AWP - ZZ - XX - DR - C - 00-4700
External Works Details	FS0816 - AWP - ZZ - XX - DR - C - 00-4701
Drawings by others	**Date Received**
Site Layout Dr by Stride Treglown	08/07/2020
Services Layout by Waldeck Consulting	06/07/2020

REV	REASON FOR REVISION	DATE	BY	CHK
P10	DESIGN AMENDED TO ACCOMMODATE 200YR STORM EVENT	30.07.20	MJC	CD
P09	AMENDED TO SUIT REVISED SITE LAYOUT	10.07.20	EL	CD
P08	INTERCEPTOR MOVED FOR ACCESS PURPOSES	03.07.20	EL	CD
P07	PARKING DRAINAGE AMENDED TO SUIT REVISED LAYOUT	27.05.20	EL	CD
P06	PUMP STATION AND PETROL INTERCEPTOR MOVED	21.05.20	EL	CD
P05	DRAINAGE NETWORK DETAILS REVISED	06.05.20	EL	CD
P04	INFILTRATION TANK DETAILS REVISED	23.04.20	EL	CD
P03	MINOR AMENDMENTS TO FW POP UPS	22.04.20	EL	CD
P02	AMENDED TO REVISED SITE LAYOUT	22.04.20	EL	CD
P01	FIRST ISSUE	09.04.20	EL	CD

Caledonian

CLIENT:
CALEDONIAN MODULAR

PROJECT REF:
BUCKTON FIELDS PRIMARY SCHOOL

DESCRIPTION:
PROPOSED DRAINAGE LAYOUT

DOCUMENT REFERENCE No:

Project No.	Orig	Volume	Level	Type	Role	Chrono No.
FS0816	AWP	ZZ	XX	DR	C	00-3001

SCALE @ A1: **1:250** REV: **P10**
CONTRACT NUMBER: **FS0816** DATE: **09.04.20**
INFORMATION STATUS: **CP ISSUE**

SUBCONTRACTOR COMPANY TRADE NAME
Alan Wood & Partners

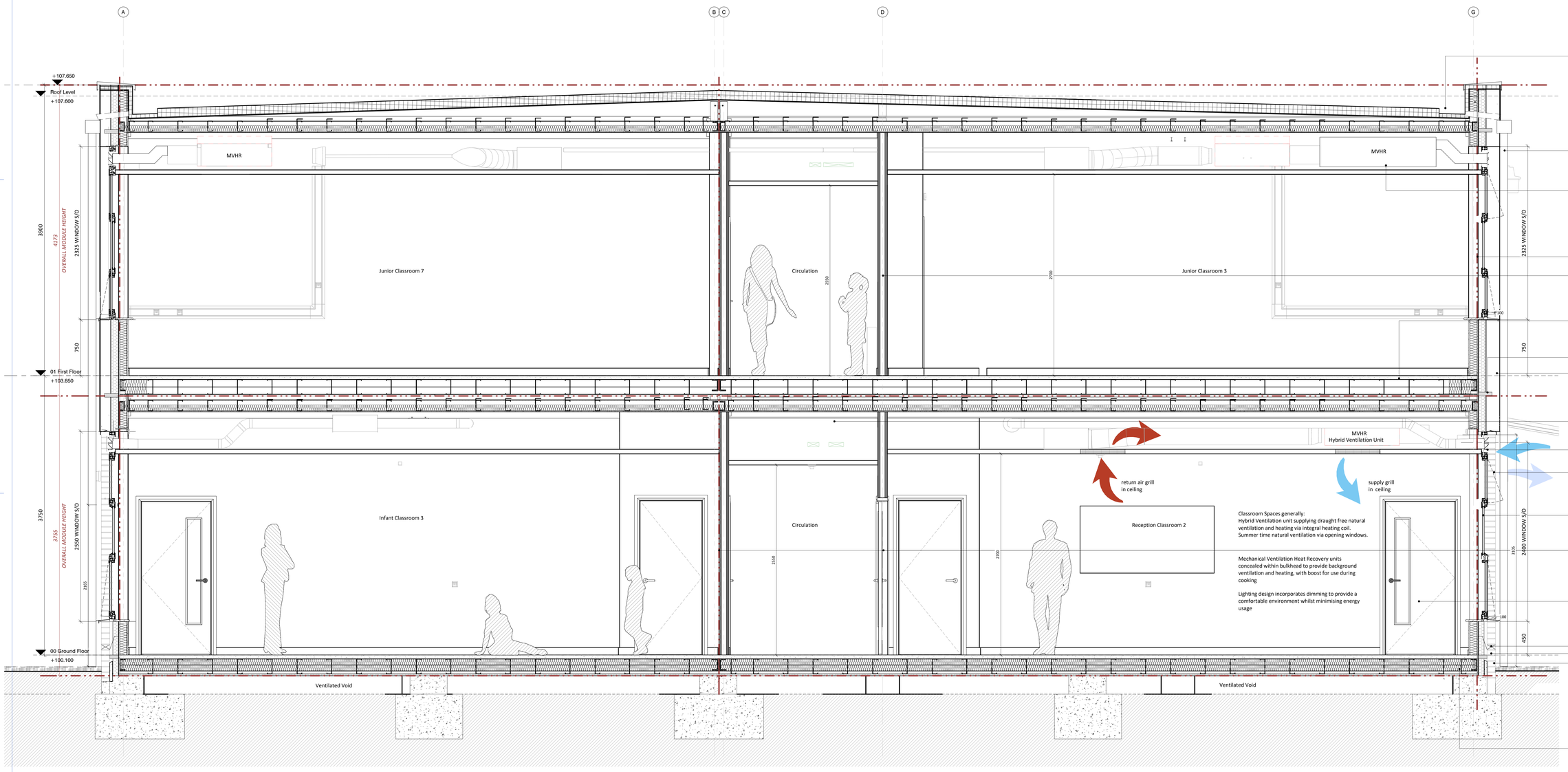
SUBCONTRACTOR CONTRACT REF. No
43241

Typical Classroom Legend

U-Values as confirmed by M&E:

- External wall – 0.25W/m²K
- Exposed roof – 0.17W/m²K
- Exposed ground floor – 0.20W/m²K
- Windows* – 1.78W/m²K

* Glazing to the north elevation to have a 0.76 Light Transmittance and 0.53 total transmittance (G-value). All other areas to have a 0.6 light transmittance and 0.29 total transmittance (G-value) in accordance with MEP Consultants recommendations.



Classroom Spaces generally:
Hybrid Ventilation unit supplying draught free natural ventilation and heating via integral heating coil.
Summer time natural ventilation via opening windows.

Mechanical Ventilation Heat Recovery units concealed within bulkhead to provide background ventilation and heating, with boost for use during cooking

Lighting design incorporates dimming to provide a comfortable environment whilst minimising energy usage

Typical Roof
Low level parapet heights within max. transportable module heights allowing for 150mm above highest ridge level. PPC coping to match window frames. Reduced insulation depth at perimeter of module to form inboard gutter accross short axis of module and discharge into RWP along facade.
Single ply membrane on rigid insulation of thickness to achieve a U value of 0.17W/m2K, 9mm OSB decking, 120mm Mineral fibre insulation on VCL, 15mm GTEC Megadeco board. Falls to gutter position along building facade line.
Roofs Thermal performance will comply with AD L2 and noise intrusion from rainfall will not exceed 25 dbA L A eq 30 mins.

Rainwater Goods
Site installed ppc aluminium rain water outlet, proprietary gutter and outflow fitted off site with external ppc aluminium rainwater hopper accessible for cleaning from MEWP.

Suspended Ceiling
Teaching spaces to have lay-in grid suspended ceilings with recessed luminaires. Standard floor to floor heights allows for classroom ceiling heights of 2700mm, higher ceilings are achieved by stacking modules.
Offices, staff rooms, corridors and some specialist teaching to have lay-in grid suspended ceilings incorporating recessed luminaires.

Internal Blinds
Internal dim out blinds to provide daylight conditions for learning and local glare control.

Partitions
Lightweight partitions for all internal walls allow for future flexibility in locations where there is no structural elements present. Partitions to meet Acoustic and durability requirements. Ref CDB 2.7.14. Internal glazing located within walls to aid visibility & passive supervision between spaces.

Upper Floors
200mm cold rolled steel sections infilled with 100mm insulation, with 50mm reinforced concrete topping to be SR2 finish for direct appliance of finishes. 300mm wide strip of perimeter insulation to upper floor module with 6mm oil tempered hardboard to support in place.

Cavity Barrier
Intumescent to maintain airpath behind cladding.

Boarded Panel System
HardiePanel or similar self finished board system, bracketed back through insulation to achieve a U value of 0.25 W/m2K to OSB/ weather defence board (where appropriate) with breather membrane fix to SFS filled with insulation, VCL, 15mm robust plaster board internally.

Main Services Distribution
Via corridor ceiling. Services within the classrooms do not cross module joint lines so that complete off site installation can be achieved.

Metal louvre
Metal louvres to serve hybrid ventilation units to provide ventilation to all teaching spaces.

External wall build-up complete with carefully specified external materials to be low maintenance.

Windows
High and low level opening PPC aluminium windows to provide natural ventilation when required (in addition to mechanical ventilation solution). Opening lights to have initial restriction of 100mm deep opening beyond edge of cladding to comply with Part K and OS. Window head located within 200mm of soffit to meet OS requirement. Free area to meet M&E Engineer's requirements.

Internal Columns
Columns are required at the ends of each modules, and are split along the corridor lines, secondary columns are provided at the second corridor wall to reduce deflection. Columns are places to be encased within a partition wall at all times and columns project into classrooms so the corridor has a flush finish. CDB 2.6.4 & 2.6.5

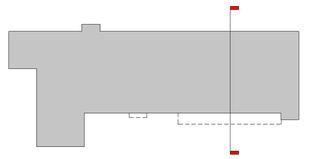
Doors and Ironmongery
Standardised doors and ironmongery with full height glazed screen to classrooms, providing aditional passive supervisiosn requirements of CDB 2.3.1. Doors and ironmongery meet CDB 2.7.1.15 & 2.7.16.

Weep hole and cavity tray
Air brick and periscope vent to below floor void

Brickwork
102.5mm brickwork, tied back to SFS with wall ties. 50mm clear cavity, partial fill cavity insulation on 12.5mm OSB/Weather Defence board (where appropriate) with 100mm SFS filled with insulation to achieve a U value of 0.25 W/m2K; to provide a robust durable and maintenance free plinth to the ground floor level. Engineering brickwork below ground to DPC / Cavity tray level. Cavity filled with lean concrete mix to ground level. Cavity tray and weep holes. Telescopic ventilators to vent below ground void and to suit radon requirements.

Ground Floor
50mm concrete topping, 200mm cold rolled joists, 2no. 80mm insulation to acheive a U value of 0.20 W/m²K, 25mm PIR insulation board, ventilated void and DPM/Radon barrier over 50mm oversite concrete in accordance with Structural Engineers recommendations.

Typical Classroom Section
1 : 20



Construction Section Key
1 : 500

STATUS	REV	DATE	DESCRIPTION
S4	P06	18.08.20	Drawing number amended. CP Submission

CLIENT
Caledonian Modular

REVISED BY
JL

CHECKED BY
RB

ORIGINATOR NO
153608

CONSULTANT
STRIDE TREGLOWN
www.stridetreglown.com

PROJECT
Buckton Fields Primary School
Village of Boughton, Brampton Lane
Northampton
NN6 8AA

DRAWING TYPE
Construction Section

SUITABILITY STATUS
S4 : SUITABLE FOR STAGE APPROVAL

SCALE
As indicated @ A0

PROJECT | ORIGINATOR | ZONE | LEVEL | TYPE | ROLE | CLASS | NUMBER
FS0816-STL-XX-SE-DR-A-00-3100

REVISION
P06

Strip Sections General Notes

Drawing to be read in conjunction with:
- **11XXX Series_Setting Out**
- **13XXX Series_Reflected Ceiling Plans**
- **21XXX Series_Elevations Setting Out**
- **40XXX Series_External Details**
- **50XXX Series_Internal Details**
- **NBS Specification**
- **Structural details and specifications**
- **MEP details and specifications**
- **Site Investigation Report**

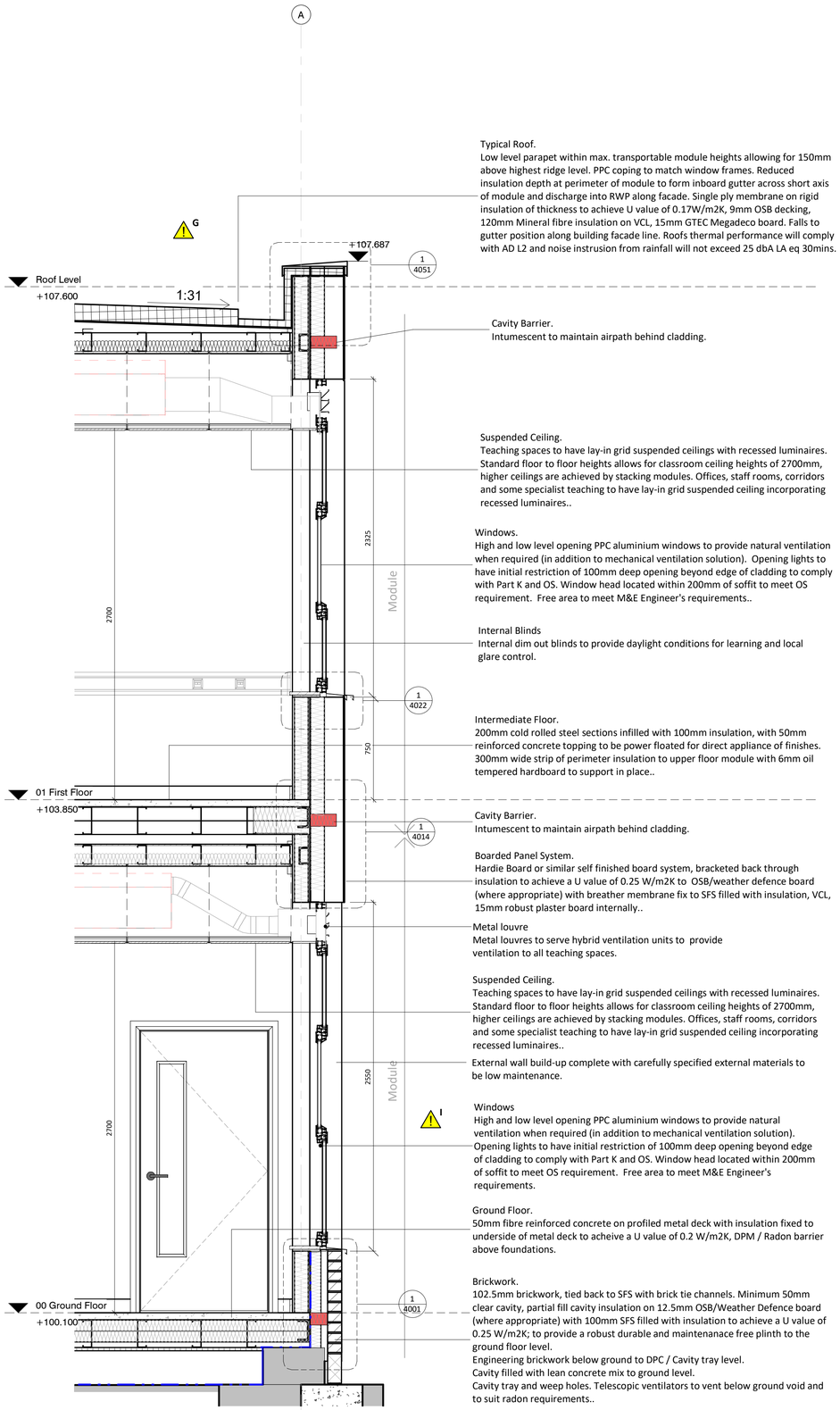
Dimensions with * indicate measurement to gridline.

External Walls: Target U-value is 0.25W/m².K
Roofs: Target U-value is 0.17W/m².K
Exposed Ground Floor: Target U-value is 0.20W/m².K
Windows: Target U-value is 1.78W/m².K

Cavity Barrier

Polymeric Membranes

FFL = Finished Floor Level
SSL = Structural Slab Level
FCL = Finished Ceiling Level



Typical Roof.
Low level parapet within max. transportable module heights allowing for 150mm above highest ridge level. PPC coping to match window frames. Reduced insulation depth at perimeter of module to form inboard gutter across short axis of module and discharge into RWP along facade. Single ply membrane on rigid insulation of thickness to achieve U value of 0.17W/m2K, 9mm OSB decking, 120mm Mineral fibre insulation on VCL, 15mm GTEC Megadeco board. Falls to gutter position along building facade line. Roofs thermal performance will comply with AD L2 and noise instrusion from rainfall will not exceed 25 dbA LA eq 30mins.

Cavity Barrier.
Intumescent to maintain airpath behind cladding.

Suspended Ceiling.
Teaching spaces to have lay-in grid suspended ceilings with recessed luminaires. Standard floor to floor heights allows for classroom ceiling heights of 2700mm, higher ceilings are achieved by stacking modules. Offices, staff rooms, corridors and some specialist teaching to have lay-in grid suspended ceiling incorporating recessed luminaires..

Windows.
High and low level opening PPC aluminium windows to provide natural ventilation when required (in addition to mechanical ventilation solution). Opening lights to have initial restriction of 100mm deep opening beyond edge of cladding to comply with Part K and OS. Window head located within 200mm of soffit to meet OS requirement. Free area to meet M&E Engineer's requirements..

Internal Blinds
Internal dim out blinds to provide daylight conditions for learning and local glare control.

Intermediate Floor.
200mm cold rolled steel sections infilled with 100mm insulation, with 50mm reinforced concrete topping to be power floated for direct appliance of finishes. 300mm wide strip of perimeter insulation to upper floor module with 6mm oil tempered hardboard to support in place..

Cavity Barrier.
Intumescent to maintain airpath behind cladding.

Boarded Panel System.
Hardie Board or similar self finished board system, bracketed back through insulation to achieve a U value of 0.25 W/m2K to OSB/weather defence board (where appropriate) with breather membrane fix to SFS filled with insulation, VCL, 15mm robust plaster board internally..

Metal louvre
Metal louvres to serve hybrid ventilation units to provide ventilation to all teaching spaces.

Suspended Ceiling.
Teaching spaces to have lay-in grid suspended ceilings with recessed luminaires. Standard floor to floor heights allows for classroom ceiling heights of 2700mm, higher ceilings are achieved by stacking modules. Offices, staff rooms, corridors and some specialist teaching to have lay-in grid suspended ceiling incorporating recessed luminaires..

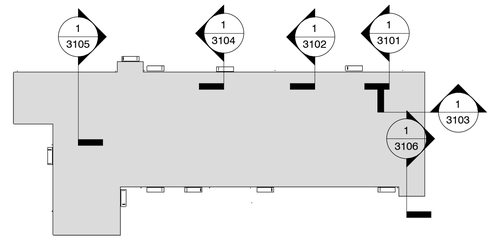
External wall build-up complete with carefully specified external materials to be low maintenance.

Windows
High and low level opening PPC aluminium windows to provide natural ventilation when required (in addition to mechanical ventilation solution). Opening lights to have initial restriction of 100mm deep opening beyond edge of cladding to comply with Part K and OS. Window head located within 200mm of soffit to meet OS requirement. Free area to meet M&E Engineer's requirements.

Ground Floor.
50mm fibre reinforced concrete on profiled metal deck with insulation fixed to underside of metal deck to acheive a U value of 0.2 W/m2K, DPM / Radon barrier above foundations.

Brickwork.
102.5mm brickwork, tied back to SFS with brick tie channels. Minimum 50mm clear cavity, partial fill cavity insulation on 12.5mm OSB/Weather Defence board (where appropriate) with 100mm SFS filled with insulation to achieve a U value of 0.25 W/m2K; to provide a robust durable and maintenanace free plinth to the ground floor level.
Engineering brickwork below ground to DPC / Cavity tray level.
Cavity filled with lean concrete mix to ground level.
Cavity tray and weep holes. Telescopic ventilators to vent below ground void and to suit radon requirements..

Section Through Windows
1 : 20



Refer to :
- GA plans, 10XX
- Internal area plans, 15XX
- Ceiling Plans, 13XX
- GA elevations, 20XX
- GA Sections, 30XX
- Construction sections, 31XX
- Site sections, 39XX
- External Envelope details, 40XX
- Finishes plans, 46XX
- Internal details, 50XX
- Sanitary, 53XX
- Stairs, 58XX
- Lifts, 59XX
- Materials, finishes and components, 77XX
- Fire strategy plans, 81XX
- Site flexibility & adaptability strategy plans, 83XX
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- Internal Supervision Strategy plans, 85XX

Construction Design & Management (CDM) Regulations 2015
As a designer under the CDM regulations we are obliged to highlight specific health and safety information on our design deliverables. Refer to the designers hazard register for further information on project safety risks.
Note, not all hazards listed below relate to all drawings. Refer to Hazard symbols on drawings

- **A** Double height area. Works overhead, ensure suitable overhead protection netting, permits, scaffold etc. during works.
- **B** Full height staircores - works and stair installation overhead.
- **C** Lift opening between floors - ensure suitably covered during construction.
- **D** Recess in slab - trip hazard until partitions and finishes installation
- **E** Rooflights - ensure careful metholodogy for installation. Openings through roof to be guarded during construction.
- **F** Lower level kitchen roof - ensure roof edge guarded during construction
- **G** Low parapets - Roof edge to be guarded by scaffolding during construction
- **H** M&E plant on roof - method for lifting needs to be employed.
- **I** Large glazed screens - ensure suitable method for installation established and minimise operative handling.

500mm 2m

STATUS	REV	DATE	DESCRIPTION
S4	P03	18.08.20	Drawing number amended. CP Submission.

CLIENT
Caledonian Modular

REVISED BY
RB

CHECKED BY
RW

ORIGINATOR NO
153608

CONSULTANT
STRIDE TREGLOWN
www.stridetreglown.com

PROJECT
Buckton Fields Primary School
Village of Boughton, Brampton Lane
Northampton
NN6 8AA

DRAWING TITLE
Construction Section - Through Windows

SUITABILITY STATUS
S4 : SUITABLE FOR STAGE APPROVAL

SCALE
As indicated @ A1

PROJECT | ORIGINATOR | ZONE | LEVEL | TYPE | ROLE | CLASS. | NUMBER
FS0816-STL-XX-SE-DR-A-00-3101

REVISION
P03

Strip Sections General Notes

Drawing to be read in conjunction with:
- **11XXX Series_Setting Out**
- **13XXX Series_Reflected Ceiling Plans**
- **21XXX Series_Elevations Setting Out**
- **40XXX Series_External Details**
- **50XXX Series_Internal Details**
- **NBS Specification**
- **Structural details and specifications**
- **MEP details and specifications**
- **Site Investigation Report**

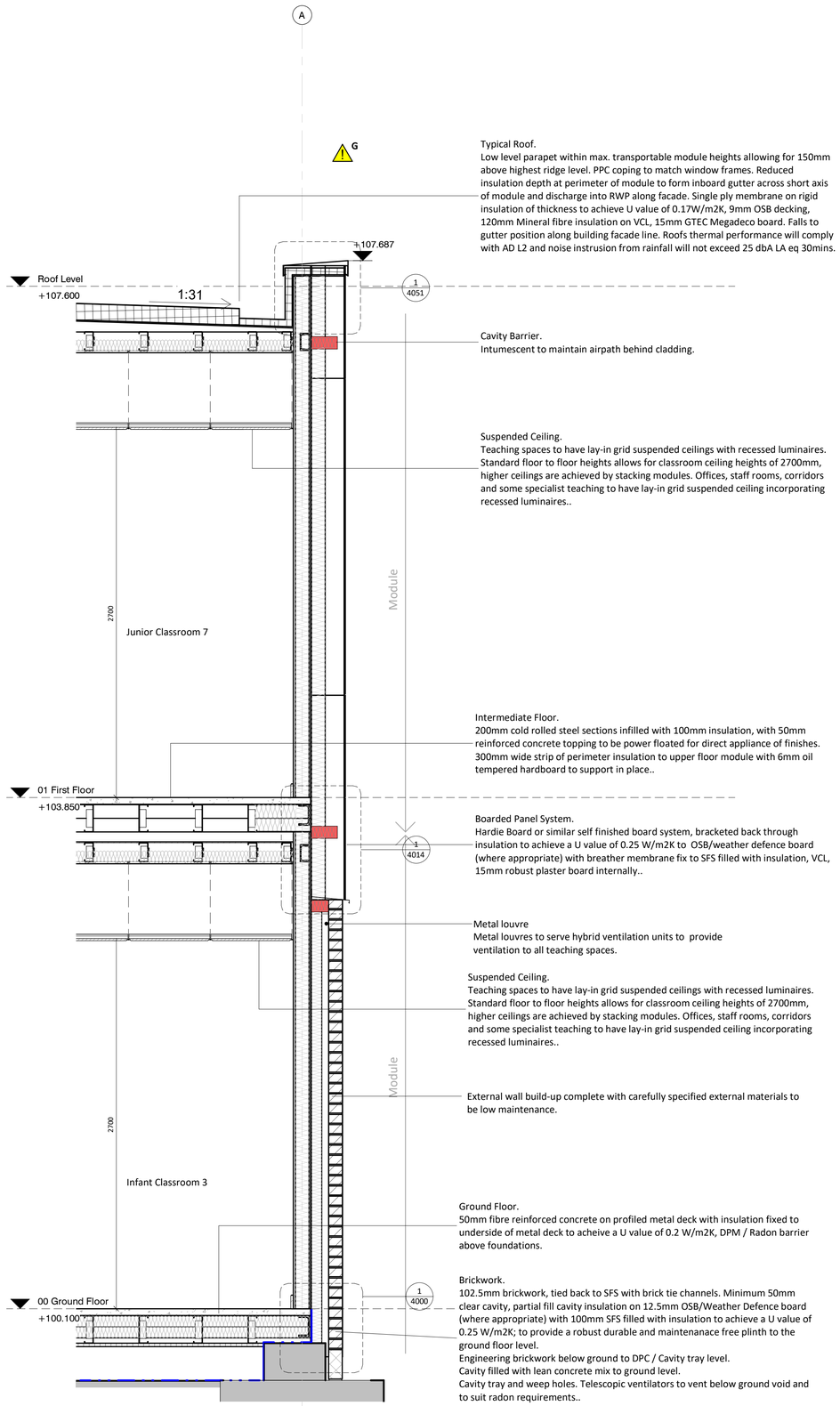
Dimensions with * indicate measurement to gridline.

External Walls: Target U-value is 0.25W/m².K
Roofs: Target U-value is 0.17W/m².K
Exposed Ground Floor: Target U-value is 0.20W/m².K
Windows: Target U-value is 1.78W/m².K

Cavity Barrier

Polymeric Membranes

FFL = Finished Floor Level
SSL = Structural Slab Level
FCL = Finished Ceiling Level



Typical Roof.
Low level parapet within max. transportable module heights allowing for 150mm above highest ridge level. PPC coping to match window frames. Reduced insulation depth at perimeter of module to form inboard gutter across short axis of module and discharge into RWP along facade. Single ply membrane on rigid insulation of thickness to achieve U value of 0.17W/m2K, 9mm OSB decking, 120mm Mineral fibre insulation on VCL, 15mm GTEC Megadeco board. Falls to gutter position along building facade line. Roofs thermal performance will comply with AD L2 and noise instrusion from rainfall will not exceed 25 dbA LA eq 30mins.

Cavity Barrier.
Intumescent to maintain airpath behind cladding.

Suspended Ceiling.
Teaching spaces to have lay-in grid suspended ceilings with recessed luminaires. Standard floor to floor heights allows for classroom ceiling heights of 2700mm, higher ceilings are achieved by stacking modules. Offices, staff rooms, corridors and some specialist teaching to have lay-in grid suspended ceiling incorporating recessed luminaires..

Intermediate Floor.
200mm cold rolled steel sections infilled with 100mm insulation, with 50mm reinforced concrete topping to be power floated for direct appliance of finishes. 300mm wide strip of perimeter insulation to upper floor module with 6mm oil tempered hardboard to support in place..

Boarded Panel System.
Hardie Board or similar self finished board system, bracketed back through insulation to achieve a U value of 0.25 W/m2K to OSB/weather defence board (where appropriate) with breather membrane fix to SFS filled with insulation, VCL, 15mm robust plaster board internally..

Metal louvre
Metal louvres to serve hybrid ventilation units to provide ventilation to all teaching spaces.

Suspended Ceiling.
Teaching spaces to have lay-in grid suspended ceilings with recessed luminaires. Standard floor to floor heights allows for classroom ceiling heights of 2700mm, higher ceilings are achieved by stacking modules. Offices, staff rooms, corridors and some specialist teaching to have lay-in grid suspended ceiling incorporating recessed luminaires..

External wall build-up complete with carefully specified external materials to be low maintenance.

Ground Floor.
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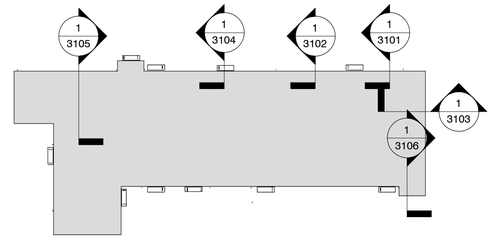
Section Through External Wall
1 : 20



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Buckton Fields Primary School
Village of Boughton, Brampton Lane
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NN6 8AA

DRAWING TITLE
Construction Section - Through External Wall

SUITABILITY STATUS
S4 : SUITABLE FOR STAGE APPROVAL

SCALE
As indicated @ A1

PROJECT | ORIGINATOR | ZONE | LEVEL | TYPE | ROLE | CLASS. | NUMBER
FS0816-STL-XX-SE-DR-A-00-3102

REVISION
P03