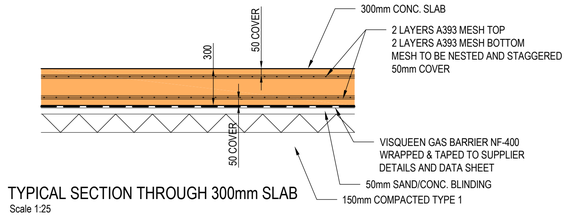
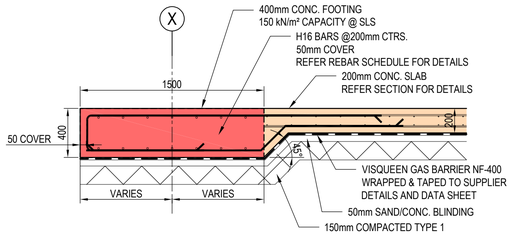


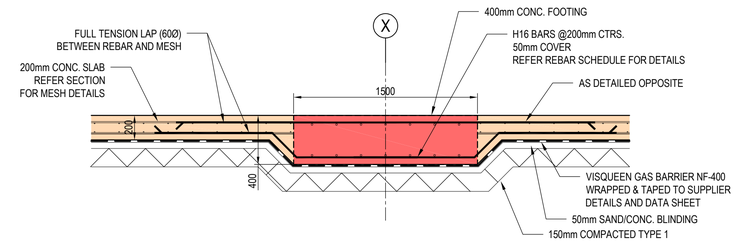
TYPICAL SECTION THROUGH 200mm SLAB
Scale 1:25



TYPICAL SECTION THROUGH 300mm SLAB
Scale 1:25

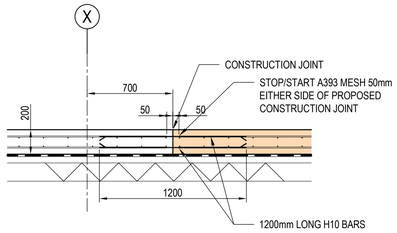


TYPICAL SECTION THROUGH CONC. FOOTING (400mm)
Scale 1:25

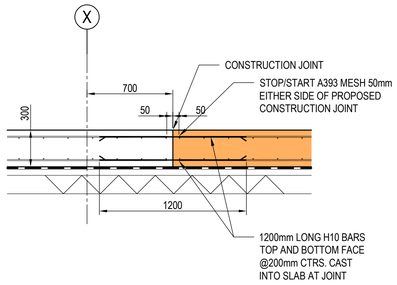


TYPICAL SECTION THROUGH CONC. FOOTING TO 200mm SLAB (BOTH SIDES)
Scale 1:25

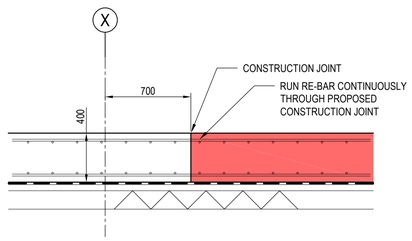
CONSTRUCTION JOINT DETAILS



CONSTRUCTION JOINT THROUGH 200mm SLAB
Scale 1:25



CONSTRUCTION JOINT THROUGH 300mm SLAB
Scale 1:25



CONSTRUCTION JOINT THROUGH CONC. FOOTING (400mm)
Scale 1:25



SCALE 1:50 - ENSURE PDF'S ARE PRINTED AT 1:1

CDM 2015 RISK NOTES

THE PROJECT HAS BEEN ASSESSED FOR SPECIFIC CONSTRUCTION RISK. THOSE RISKS THAT A COMPETENT CONTRACTOR SHOULD BE AWARE OF ARE NOT LISTED HERE. RISKS THAT ARE INHERENT IN THE DESIGN DECISIONS TAKEN THAT A CONTRACTOR NEEDS TO BE AWARE OF ARE HIGHLIGHTED BELOW AND REFERENCED IN LOCATION ON THE DRAWING PLANS BY THE NOTED SYMBOL.

⚠1 NO SPECIFIC ISSUES TO HIGHLIGHT. CONTRACTOR TO REVIEW SEQUENCE OF WORKS AND DISCUSS WITH THE ENGINEER.

SITE & DRAWN MEASUREMENTS

1) DRAWN DIMENSIONS ARE BASED ON ARCHITECTS DRAWINGS OR INTERPOLATED FROM ELECTRONIC FILES. THE CONTRACTOR SHOULD TAKE SITE MEASUREMENTS AS REQUIRED TO ENSURE THE SET-OUT OF THE BUILDING IS CORRECT AND STRUCTURAL ITEMS ARE PLACED IN THE CORRECT POSITION, ARE THE CORRECT LENGTH AND PROPORTIONS.

2) IF IN DOUBT ASK.

3) SITE MEASUREMENTS ARE TO BE TAKEN BY THE CONTRACTOR PRIOR TO MATERIAL ORDER. ANY DISCREPANCIES ARE TO BE REPORTED TO THE DESIGNER FOR REVIEW.

NOTES:
DO NOT SCALE FROM THIS DRAWING, UTILISE ONLY NUMBERED DIMENSIONS.
THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS, NOTIFY JAMESON CONSULTING LTD, IMMEDIATELY OF ANY DISCREPANCIES. UNLESS NOTED OTHERWISE.
© JAMESON CONSULTING ENGINEERS Ltd.

DRAWING STATUS

AS BUILT STATUS

GENERAL NOTES

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS ARE SHOWN FOR DESIGN AND TENDER PURPOSES ONLY. ACTUAL SURVEY OR ARCHITECTS DIMENSIONS SHOULD BE USED IN ALL CASES. BUILDER/CONTRACTOR TO SATISFY THEMSELVES THAT DIMENSIONS ARE CORRECT PRIOR TO MATERIAL ORDER.
3. REFER ARCHITECTS DRAWINGS FOR CONSTRUCTION AND FINISH REQUIREMENTS.
4. NOTIFY JAMESON CE LTD IMMEDIATELY IF ANY DISCREPANCY ARISES.

CONCRETE NOTES

1. ALL CONCRETE WORK IS TO BE IN ACCORDANCE WITH JCE-LTD NBS-SECTION E
2. RELEVANT CONCRETE MIX DESIGN :-

CONCRETE ELEMENT	DESIGN CHEMICAL CLASS	SPEC. CLAUSE No.
SLAB	DC-1	130 O
RETAINING WALLS	DC-1	130 O
FOUNDATIONS	DC-1	130 C

3. SURFACE FINISH TO CONCRETE TO BE IN ACCORDANCE WITH SECTION 600. ALL FACES TO BE "AS CAST" UNLESS SPECIFIED BELOW :-

CONCRETE ELEMENT	SURFACE FINISH			
	TOP	BOTTOM	SIDE	END
SLAB	FLOATED	---	SHUTTER	SHUTTER

4. ALL SERVICE ACCESSES TO BE RAISED TO NEW LEVEL.
5. ALL SURFACE MOUNTED KIT TO BE REMOVED, STORED AND REFITTED.
6. REFER JCE SPECIFICATION FOR CONCRETE CURING PROVISION. CARE TO BE TAKEN TO CURE TOPPING TO PREVENT EARLY SHRINKAGE CRACKS.
7. FORMED JOINTS AS PROPOSED ON PLAN TO BE FOLLOWED UNLESS PRIOR AGREEMENT SOUGHT FROM JCE LTD.

DRAWING KEY - PRINT IN COLOUR
- 400mm THK CONC. FOOTING
- 300mm THK CONC. SLAB
- 200mm THK CONC. SLAB
- RECESSED 200mm THK CONC. SLAB

REV	DESCRIPTION	BY	CHK	APP	DATE
A	DRAWING STATUS REVISED TO AS BUILT	RL	CM	CM	02.09.26

JAMESON CONSULTING
Pure Offices, 4100 Park Approach, Thorpe Park, Leeds LS15 8GB
0113 8231 915 info@jamesonconsulting.co.uk

Client:

Project:
LIDL BIRSTALL
LEEDS

Drawing Title:
PROPOSED NEW STORE
FOUNDATION SECTIONS 03

Scale	Drawn	Date	Checked	Date	Approved	Date
A1 1:25	RL	MAR 26	CM	MAR 26	CM	MAR 26

Drawing No.
4529 JCE S (20) 07

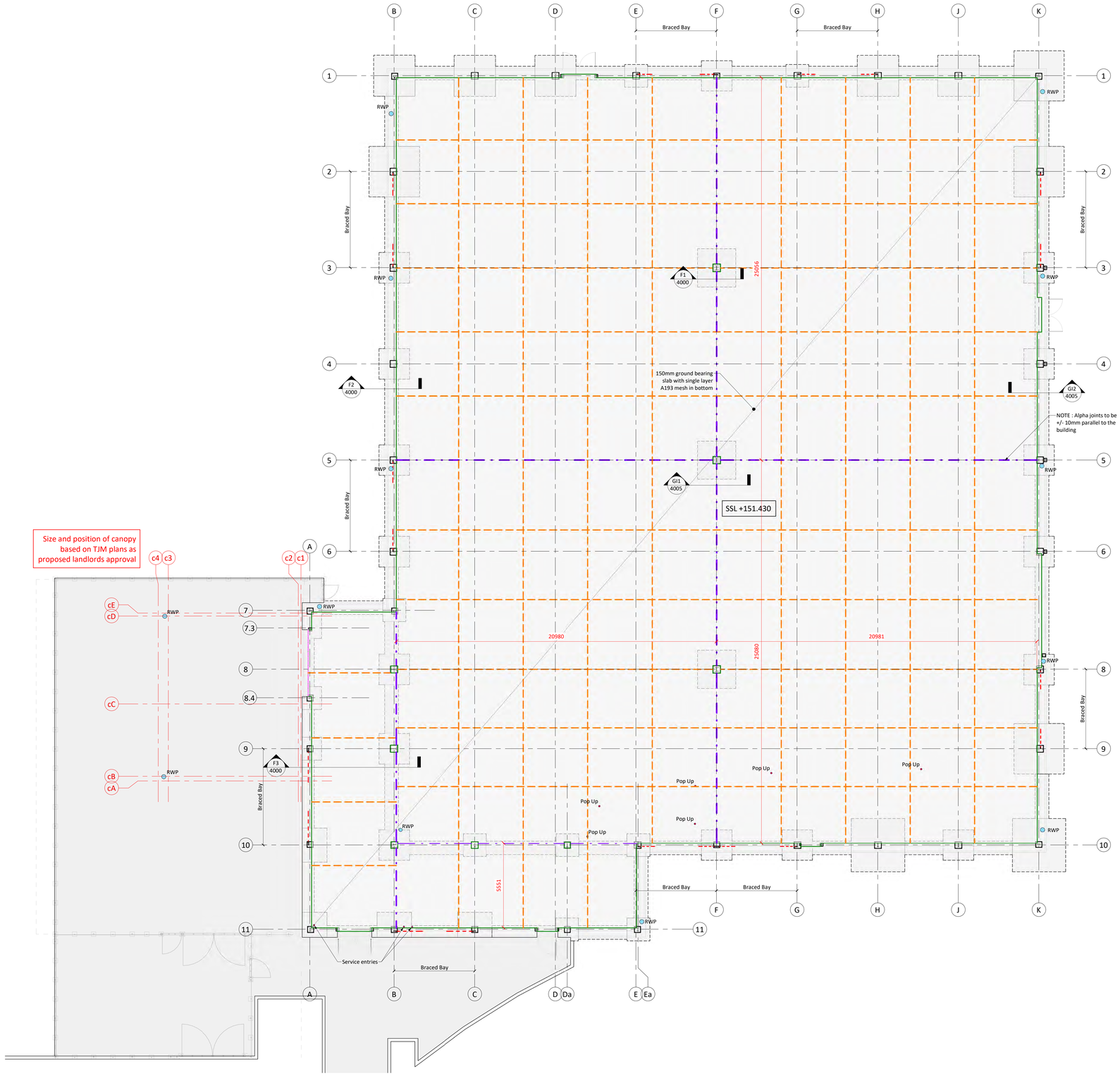
Revision
A

© JAMESONCONSULTING LTD
SHEET SIZE : A1 LANDSCAPE

F:\EDMS\...\DRAWINGS\CONSULTING\PLANS\TEMPLATES\...\APP_EP2020 - 2.0L BRITON\DRAWINGS\PLANS\S (EP2020)\4529 JCE S (20) 07.DWG | PLOTTED BY: RICHARD.LAYFORD | PLOTTED DATE: 02 September 2026 9:43:13

APPENDIX D

HOME BARGAINS FOUNDATION DRAWINGS

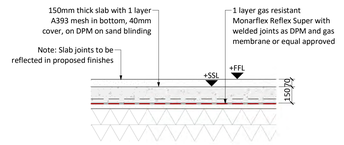


Size and position of canopy based on TJM plans as proposed landlords approval

GF Ground Floor Slab Plan
1 : 100

Slab Joint Key:

- Armoured Alpha Joint (AJ)
- Isolation Joint (IJ)
- Cut Joint (CJ)
- Armoured Edge Joint (AEJ)



S1 Section Through Slab
1 : 20

Do Not Scale

Drawing Notes

1. For general notes refer to Adept drawings 0151 & 0152.
2. This drawing is to be read in conjunction with all Architect's drawings from which all setting out details, dimensions, levels & waterproofing should be confirmed.
3. The Contractor is to check all drawings and report any discrepancies immediately.
4. All work is to be carried out in accordance with current edition of The Building Regulations and to the satisfaction of the Local Authority Building Inspector.
5. The symbols represented on Adept drawings should be read in conjunction with BS8541-2.
6. DPM and insulation to architects details.
7. All levels are in metres to ordnance datum.
8. Ground gas protection measures in accordance with BS8485:2019 to the below CS2 ground protection scores.
   - 150mm Slab, Type D = 1.5 pts
   - 150mm Slab, Type C = 2.5 pts
9. All gas protection details indicative and to be designed by a specialist.

FINAL CONSTRUCTION ISSUE

This final construction drawing is based on information supplied to Adept by the Principal Contractor which amends the construction issue and may incorporate instructions and other design information supplied to the Principal Contractor by others. Where future works to elements on this drawing are required it is recommended that adequate investigatory work is carried out to determine the accuracy of the information contained in this drawing. Adept cannot accept any liability for the accuracy of the information as this drawing includes data provided by others.

Date	Description	By	Chk	Rev
27.08.26	Final Construction Issue	GJH	VM	C3
24.07.26	RWP locations updated, slab bay sizes added	GJH	VM	C2
14.05.26	Construction Issue	JW	VM	C1
24.03.26	Pad footings added for canopy, layout updated to suit reduced gas protection requirements	GJH	VM	P7
06.02.26	Floor slab joints added	GJH	VM	P6
03.02.26	RWPs added and slab level updated to suit revised finishes	GJH	VM	P5
15.01.26	Slab thickened between grids 9-11, gas venting system added	GJH	VM	P4
12.12.25	Pop up locations added	GJH	VM	P3
08.12.25	Grid 10-11 floor area extended, gable columns added, steelwork and grids updated to suit	GJH	VM	P2
14.11.25	Initial issue	GJH	VM	P1

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Email inbox@adeptcsce.com
Tel 0113 239 4518
Office 1912 Mill, Sunny Bank Mills, Farsley, Leeds LS28 5UJ

Project
Proposed Retail Unit
Birstall, Bankwood Way

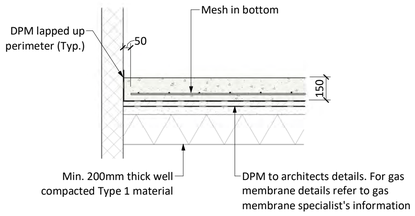
Title
Ground Floor Slab Layout

Client
Cookridge Estates

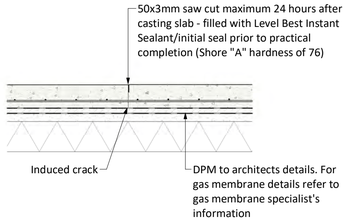
Scale @ A0	Initial author	Initial checker	Approver	Initial Date
As indicated	JW	VM	GS	Nov. '25

Status	Purpose	Adept Project Number
A	Final Construction	00.20321

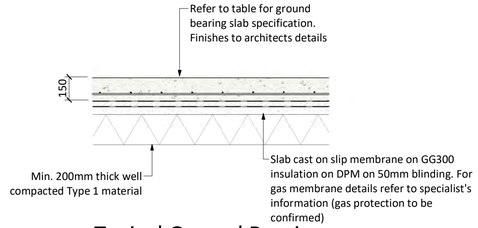
Project-Originator-Functional Breakdown-Spatial Breakdown-Form-Discipline-Number: 00.20321-ACE-ZZ-00-D-S-4010 Rev. C3



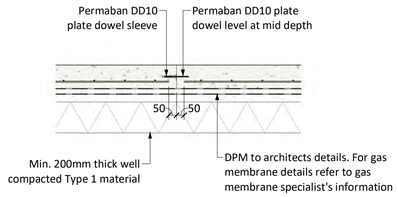
Perimeter Isolation Joint (IJ)



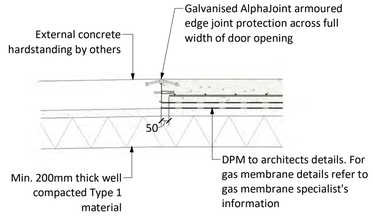
Cut Joint Detail (CJ)



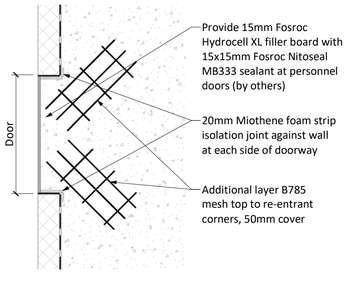
Typical Ground Bearing Slab Construction



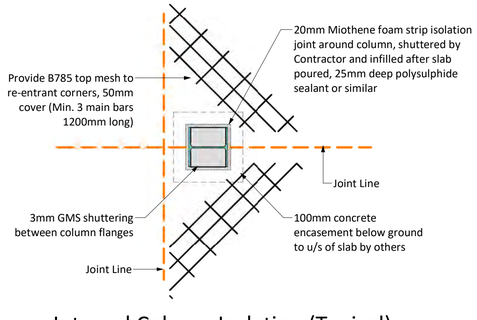
Armoured Alpha Joint (AJ)



Armoured Edge Joint (AEJ)



Indicative Plan on Slab at Door Thresholds



Internal Column Isolation (Typical)

Ground Bearing Slab Details:

Concrete Grade		C32/40
Slab Thickness (mm)		150
Reinforcement	Fibre	N/A
	Mesh	A193
	Cover (mm)	40 (Bottom)
	Min Laps (mm)	450
Aggregates		Refer to Adept Spec. for Details
Nom. Max Size Coarse Aggregate (mm)		20
Min. Cement Content (kg/m³)		300
Max. Free Water / Cement Ratio		0.55
Admixture		Superplasticisers only, refer to Adept Spec.
Slip Membrane/Gas Membrane		Suitable for CS2 ground gas condition.
Insulation		30mm Kingspan GG300
Damp Proof Membrane		1200 Gauge Visqueen.
Sub-base, Thickness and Type		200mm min. granular Sub-base Type 1
Sub-base level		+0mm / -20mm from slab soffit datum
Design Subgrade Modulus of Elasticity, k (N/mm²/mm) To be demonstrated on site with 3No. 750mm dia. plate bearing tests required at natural ground formation level and top of engineered fill level, and in no less than 450mm vertical layers. If fill is deeper than 450mm, additional tests will be required at the same frequency as set out above.		0.05 min.
Surface Finish		Tamped
Surface Tolerance		FM3
Sampling Regime		Testing regime to be 2No. sets of 4 cubes per casting day. 2No. cubes from each set to be tested at 28-day strength.
Dryshake Topping Required?		No
Curing		Application of a sprayed membrane in accordance with the manufacturer's recommendation. Sprayed membrane shall also act as an anti-dusting agent, Proseal or similar approved.
Abrasion Resistance Performance Class		All areas:- AR2
Exposure Class		XC1
Chloride Class		Cl, 0.40
Design Loading (Slab not to be loaded until 28 days after pouring)	UDL	All areas:- 10kN/m²
	Back to Back Load	5kN
	Back to Back Distance Between Legs	300mm
	Racking Leg Distance From Joints	Tenant requirements to be reviewed
	Single Racking Leg Baseplate Size	Tenant requirements to be reviewed
	Forklift truck	FL4
Other Comments		TBC

FINAL CONSTRUCTION ISSUE

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Do Not Scale

Drawing Notes

1. For general notes refer to Adept drawings 0151 & 0152.
2. This drawing is to be read in conjunction with all Architect's drawings from which all setting out details, dimensions, levels & waterproofing should be confirmed.
3. The Contractor is to check all drawings and report any discrepancies immediately.
4. All work is to be carried out in accordance with current edition of The Building Regulations and to the satisfaction of the Local Authority Building Inspector.
5. The symbols represented on Adept drawings should be read in conjunction with BS8541-2.
6. DPM and insulation to architects details.
7. All levels are in metres to ordnance datum.
8. Ground gas protection measures in accordance with BS8485:2019 to the below CS2 ground protection scores
   - 150mm Slab, Type D = 1.5 pts
   - 150mm Slab, Type C = 2.5 pts
9. All gas protection details indicative and to be designed by a specialist.
10. Slab design loading taken from Home Bargains Shell Specification Requirements - Section 1.1

All saw cutting of joints to be done within 24 hours of slab pour.

All columns to be additional layer of B785 top mesh to re-entrant corners, 30mm cover (Min. 3 main bars 1200mm long).

Alternatively, 3No. loose bars can be used in lieu of mesh however it will require to be fixed in top placement to avoid it sinking down into bottom layer.

Date	Description	By	Chk	Rev
27.08.26	Final Construction Issue	GJH	VM	C3
24.07.26	Membrane details and slab thickness updated	GJH	VM	C2
14.05.26	Construction Issue	JW	VM	C1
24.03.26	Slab details and finish updated	GJH	VM	P2
06.02.26	Initial Issue	GJH	VM	P1

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Project

Proposed Retail Unit
Birstall, Bankwood Way

Title

Ground Floor Slab Details

Client

Cookridge Estates

Scale @ A1	Initial author	Initial checker	Approver	Initial Date
1 : 20	JW	VM	GS	Nov. '25

Status	Purpose	Adept Project Number
A	Final Construction	00.20321

Project-Originator-Functional Breakdown-Spatial Breakdown-Form-Discipline-Number: 00.20321-ACE-ZZ-00-D-S-4011 Rev. C3

NOTE: TEMPORARY WORKS MAY BE REQUIRED TO GABION RETAINING WALLS TO AVOID UNDERPINNING DURING FOUNDATION AND DRAINAGE WORKS

Size and position of canopy based on TJM plans as proposed landlords approval

1 layer A393 mesh in top of all canopy bases, 50mm minimum cover

Pad foundations where service entry ducts are to be cast, to be reinforced top and bottom

Surface water drainage to pass under foundations, refer to Adept drgs 1001 & 1032

Foul drainage to pass under foundations, refer to Adept drgs 1001 & 1032

Foul drainage to pass under foundations, refer to Adept drgs 1001 & 1032

Service entries

Braced Bay

Drainage Channel

Vegetation

Unable to Survey

Pop Up

TOF +150.600

RWP

900x450dp

P01 P02 P03 P04 P05 P06 P07 P08

F1 4000

F2 4000

F3 4000

GI1 4005

GI2 4005

R1 4000

FORKLIFT CHARGING BAYS

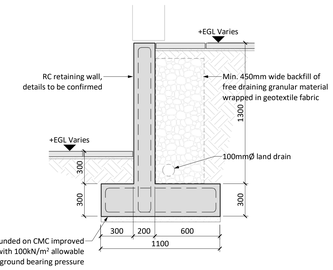
LOADING PLATFORM

UP

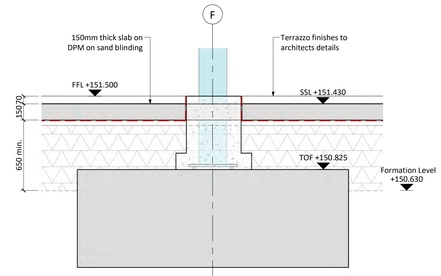
FN Foundation Layout
1 : 100

Pad Foundation Schedule

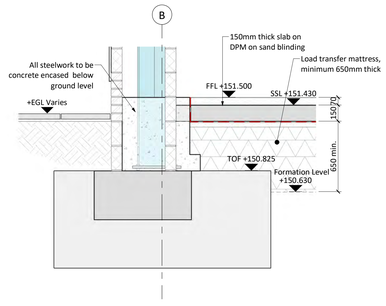
Pad Ref	Count	Volume	Length	Width	Depth
P01	14	28.13 m³	1500	1500	900
P02	18	64.46 m³	2000	2000	900
P03	1	3.38 m³	2500	1500	900
P04	4	18.23 m³	2250	2250	900
P05	3	16.88 m³	2500	2500	900
P06	5	32.81 m³	2700	2700	900
P07	4	39.20 m³	3300	3300	900
P08	2	29.40 m³	3500	3500	1200
Grand total: 51	51	232.47 m³			



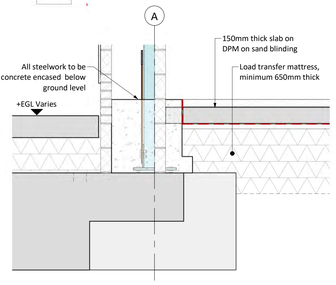
R1 Section at External Retaining Wall
1 : 20

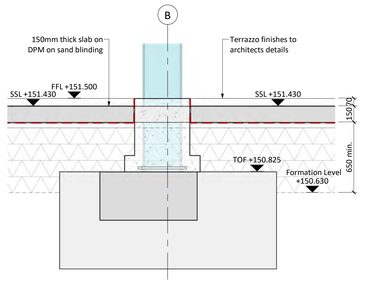


F1 Typical Internal Pad Footing
1 : 20



F2 Typical External Pad Footing
1 : 20





F3 Typical Foundations At Extended
1 : 20

Do Not Scale

Drawing Notes

1. For general notes refer to Adept drawings 0151 & 0152.
2. This drawing is to be read in conjunction with all Architect's drawings from which all setting out details, dimensions, levels & waterproofing should be confirmed.
3. The Contractor is to check all drawings and report any discrepancies immediately.
4. All work is to be carried out in accordance with current edition of The Building Regulations and to the satisfaction of the Local Authority Building Inspector.
5. The symbols represented on Adept drawings should be read in conjunction with BS8541-2.
6. All levels are in metres to ordnance datum.
7. All excavations to be inspected on site by engineer/ building control officer before placing concrete.
8. All columns to be encased below ground level with min. 100mm mass concrete.
9. All concrete pad foundations to be positioned centrally on grid/under column U.N.O.
10. All concrete strip footings/ground beams to be positioned centrally under wall construction over unless noted otherwise.
11. All pad foundations in braced bays to have 1 layer A393 mesh in top.
12. All pad foundations where service entry ducts are to be cast within to have reinforced cage.
13. Installed drainage survey provided by SDS overlaid on foundation plan, final drainage design pending confirmation of gravity rainwater locations and surveyed foul water levels.
14. Refer to Adept 6000 series drawings for RC details.

FINAL CONSTRUCTION ISSUE

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Date	Description	By	Chk	Rev
27.08.26	Final Construction Issue	GJH	VM	C3
24.07.26	RWP locations updated, drainage layout updated to suit	GJH	VM	C2
24.04.26	Construction Issue. Grid 10-11 foundation depths updated to suit external levels	GJH	VM	C1
24.03.26	Drainage layout updated, footings dropped locally to suit, pad footings added for canopy, updated to suit reduced gas protection requirements	GJH	VM	P9
06.02.26	Retaining wall to external yard added	GJH	VM	P8
03.02.26	RWPs added and slab level updated to suit revised finishes	GJH	VM	P7
15.01.26	Site layout and drainage added, notes added	GJH	VM	P6
12.12.25	Door frame added to grid 10	GJH	VM	P5
08.12.25	Columns added to gable ends, footings updated to suit, sections added	GJH	VM	P4
26.11.25	Grid 10-11 floor area extended	GJH	VM	P3
20.11.25	Pad sizes reviewed, strips reduced to suit wall setting out	GJH	VM	P2
14.11.25	Initial Issue	GJH	VM	P1

ADEPT
CIVIL AND STRUCTURAL CONSULTING ENGINEERS
Web www.adeptcsce.com
Email inbox@adeptcsce.com
Tel 0113 239 4518
Office 1912 Mill, Sunny Bank Mills, Farsley, Leeds LS28 5UJ

Project
Proposed Retail Unit
Birstall, Bankwood Way

Title
Foundation Plan

Client
Cookridge Estates

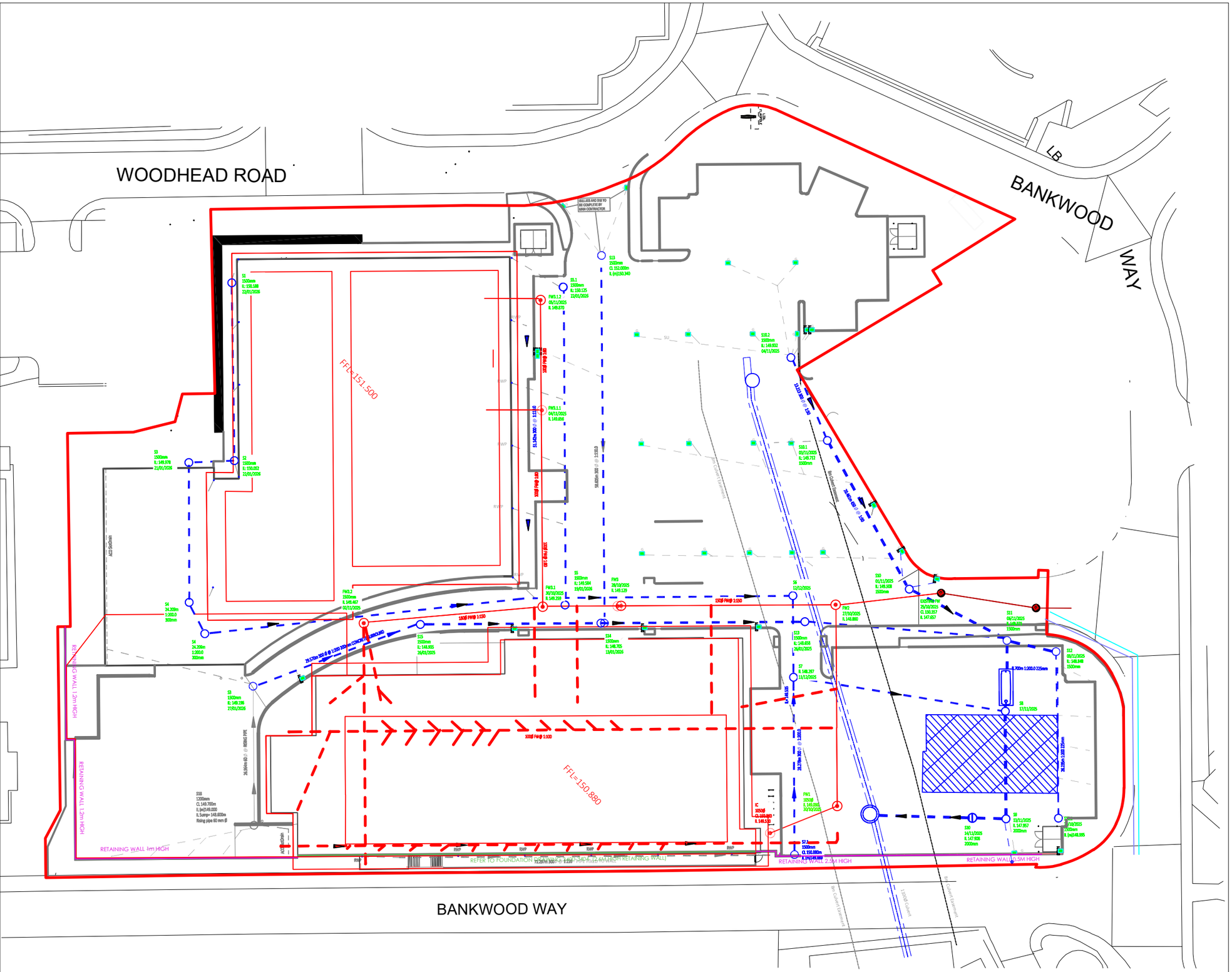
Scale @ A0	Initial author	Initial checker	Approver	Initial Date
As indicated	JW	VM	GS	Nov '25

Status	Purpose	Adept Project Number
A	Final Construction	00.20321

Project-Originator-Functional Breakdown-Spatial Breakdown-Form-Discipline-Number: 00.20321-ACE-ZZ-FN-D-S-4000 Rev. C3

APPENDIX E

DRAINAGE DRAWINGS



JOB NAME
BIRSTALL LIDL

DRAWING TITLE
DRAINAGE AS-BUILT

STATUS
INFORMATION

SCALE @ SIZE
DO NOT SCALE

DATE
JAN 26

SHEET BY
TG

CHECKED BY
BI

JOB NO.
314

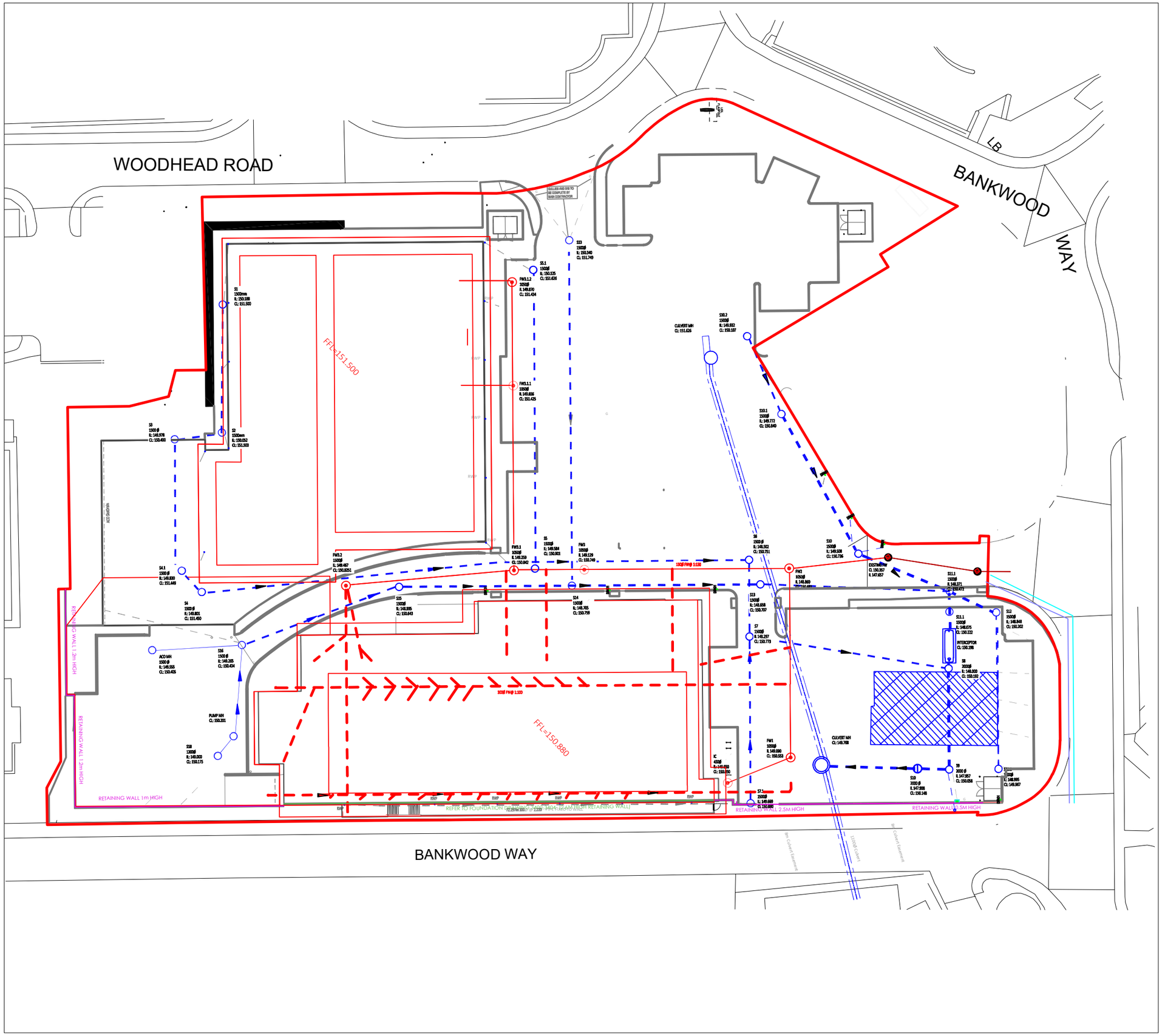
DRAWING NO.
DRAINAGE-AB

REV
A

Stonedale Construction
Unit 1,
Scandinavia Court
Chain Bar Road
Cleckheaton
BD19 3QW

01274 053958
www.stonedaleconstruction.co.uk

STONEDALE
CONSTRUCTION LTD



JOB NAME
LIDL, BIRSTALL

DRAWING TITLE
DRAINAGE AS-BUILT

STATUS
INFORMATION

SCALE @ SIZE
DO NOT SCALE

DATE
SEP 26

SHEET BY
TG

CHECKED BY
BI

JOB NO.
321

DRAWING NO.
DRAINAGE-AB

REV
A

Stonedale Construction
Unit 1,
Scandinavia Court
Chain Bar Road
Cleckheaton
BD19 3QW

01274 053958
www.stonedaleconstruction.co.uk

STONEDALE
CONSTRUCTION LTD

APPENDIX F

LETTER FROM STONEDALE CONSTRUCTION

STONEDALE
CONSTRUCTION LTD

To Whom it May Concern,

Stonedale Construction Ltd confirms that no landfill material was disturbed during the course of our works at the above site. No excavation into, removal of, or exposure of landfill material took place as part of our works, and no landfill material was taken off site.

Should you require any further information, please do not hesitate to contact us.

Yours Faithfully,

Ben Iveson

Contracts Manager

Stonedale Construction Limited
Unit 1, Scandinavia Court, Chain Bar Road, Cleckheaton, BD19 3QW

APPENDIX G

LIDL STORE GROUND GAS PROTECTION

GeoShield Verification Plan

PROJECT DESCRIPTION

GEO105984
PAGeoContracting Ltd
Lidl Birstall Retail Park / 9394
Bankwood Way,
Birstall,
WF17 9TD

The proposed development for which gas protection measures are required involves the construction of a new Lidl store.

In accordance with BS8485:2015 + A1 2019, the Type C building must conform to a Characteristic Specification (CS) rating of 2, so mitigation will need to be 2.5 points with basic radon protection.

Geoshield have adopted the highest design and verification principles associated with BS8485:2015 + A1 2019, BR 211, Public Health England, NHBC Technical Extra April 2016 and CIRIA 735.

This pre-verification plan reviews the design to ensure it is compliant with the developer and planning authority requirements and in conjunction with the relevant investigation report in accordance with BS8485:2015 +A1 2019.

In summary, the design does achieve a required level of attention to detail with its robust specific gas membrane design (2 points) and the structural barrier of a reinforced concrete raft slab (1.5 points).

The pre-verification plan confirms how the installation will be tested in accordance with CIRIA735. The verification visits will be documented in verification reports during the project that are suitable for submission to the local planning authority in order to satisfy and discharge planning consent.

All faults identified during inspection and the verification site visit of the ground gas system will be itemised as remediations which will need to be signed off in the remediation log for the proposed building.

GeoShield Verification Plan

PROJECT DESCRIPTION

Pre-Verification Plan

GeoShield are appointed by the Client to carry out independent validation, verification and integrity testing of the ground gas protection system on site. The Pre-Verification plan sets out the requirements and procedures that GeoShield will adopt to ensure that the installation is in line with the proposed design, relevant UK standards and guidance.
GeoShield take no responsibility for any warranties to third parties for the design of the system or the installation.

Limitations

The Pre-Verification plan prepared by GeoShield Limited is limited to the proposed ground gas protection measures installed. The Pre-Verification plan has been prepared in line with the relevant UK Standards and Guidance (BS8485:2015+A1:2019 & CIRIA 735) alongside the information made available to GeoShield by the Client. The conclusions made in the report are considered to be correct at the time of writing, but additional information provided/discovered may require amendments to the Plan. GeoShield recognises that changes to relevant standard and guidance may occur at any time which may cause the conclusions made to be incorrect - GeoShield do not accept any responsibility or liability for the implications of such changes.

The Pre-Verification plan does not in itself constitute verification that the membrane has been installed in accordance with this document. Validation and verification of the installed membrane will be covered in separate verification reports following physical inspection of the gas barrier and will include photographic evidence of the installation.

Waterproofing elements (where applicable) do not fall into the remit of this Pre-Verification plan or future inspections. GeoShield will provide the opinion on membrane's suitability for ground gas protection purposes – no liability is offered or implied for the waterproofing element which should be checked by others.

GeoShield Verification Plan

PROJECT REFERENCE: GEO105984

PROJECT: Lidl Birstall Retail Park / 9394

PROJECT ADDRESS: Bankwood Way,

Birstall,

WF17 9TD

SPECIFICATION: Verified in accordance with CIRIA 735.

Design in accordance with BS8485 2019

Substrate prepared in-accordance with manufacturers instructions.

Protech GM Super

Protech SAGM

GeoShield Verification Plan

CONTENTS

Section 1	Project description
Section 2	Project material specification
Section 3	Project information
Section 4	GeoShield surveyor information
Section 5	Project information: Drawings, S.I, MSDS, Radon Maps
Section 6	Client Details
Section 7	Application team leaders
Section 8	Gas regime
Section 9	Testing
Section 10	Risk assessment
Section 11	Method Statement
Section 12	Pre-Contract Meeting Checklist
Section 13	Pre-Contract Meeting Summary

GeoShield Verification Plan

INFORMATION INCLUDED

Ground Gas Assessment

Engineers drawings

Material Specification Technical Data Sheets

Radon Maps Uk

BR211 Quality Management Record

Information presented to at the pre-verification stage assumed correct

Any change client will let GeoShield know or this Pre-verification Plan will be void.

GeoShield Verification Plan

NAME OF SURVEYOR: Paul Colbeck

VERIFICATION COMPANY: GeoShield Limited

Icon Business Centre

4100 Park Approach

Thorpe Park

Leeds

CONTACT NUMBER: 07462 546 926

EMAIL ADDRESS: pcolbeck@geoshield.co.uk

ORDER NUMBER: To be confirmed

PER VISIT: YES: ☐ NO: ☐ PROJECT: YES: ☐ NO: ☐

GeoShield Verification Plan

SPECIFICATION



1080.04.01
24th February 2026
Apps

Gary Rafferty
Lidl Great Britain Ltd
Iport Unit 4
Ontario Drive
DN11 0BF

Dear Gary,

Post Remediation Ground Gas Assessment, Lidl Birstall, West Yorkshire

Remada Ltd was commissioned by Lidl Great Britain Ltd (the "Client") to update the earlier Ground Gas Risk Assessment for the proposed Lidl and Home Bargains stores on land off Bankwood Way, Birstall, West Yorkshire WF17 9TD. Remada was separately appointed by Stonedale Construction Ltd to prepare a Verification Report for the remediation works at Birstall as set out in Remada's Combined Remediation Strategy Drilling & Grouting Plan ref: 1080.07.01.

Remada's appointment by Stonedale excluded the post remediation ground gas monitoring requirement as set out in Kirklees Councils EHO response WK/202523429 and as detailed in Remada's Combined Remediation Strategy Drilling & Grouting Plan ref: 1080.07.03

This letter provides an addendum to Remada's Verification Report 1080.08.01 for whom the client was StoneDale Construction Ltd.

1. **Previous Reports**

A summary of all available reports have been tabulated and summaried by Remada in Section 2 of the 1080.07.03 Combined Remediation Strategy, Drilling and Grouting Plan, January 2025.

A few portions of Section 2.1.3 are stated: '*Historical landfill was indicated on-site across the majority of the site area and extending off-site to the southwest in 1970. Landfill operations were considered to have continued until the mid-1980s*', and '*Made Ground was found to vary spatially, with thicker Made Ground in the east of the site, shallowing rapidly in the northeast, and with thinner deposits of Made Ground in the west and north of the site*', and '*Weathered and solid bedrock was encountered at depths of less than 2.0m bgl outside the footprint of the historic landfill, and at a depth of 14.5m bgl within the footprint of the landfill.*'

The former reports state the site would be initially CS2 before adjusting to a CS4 designation for the entire site.

Where the landfill had been on site, deep Made Ground was encountered to a maximum depth of 14.5m and in the western portion of the site outside the former landfill, Made Ground was encountered to 2.0m bgl.

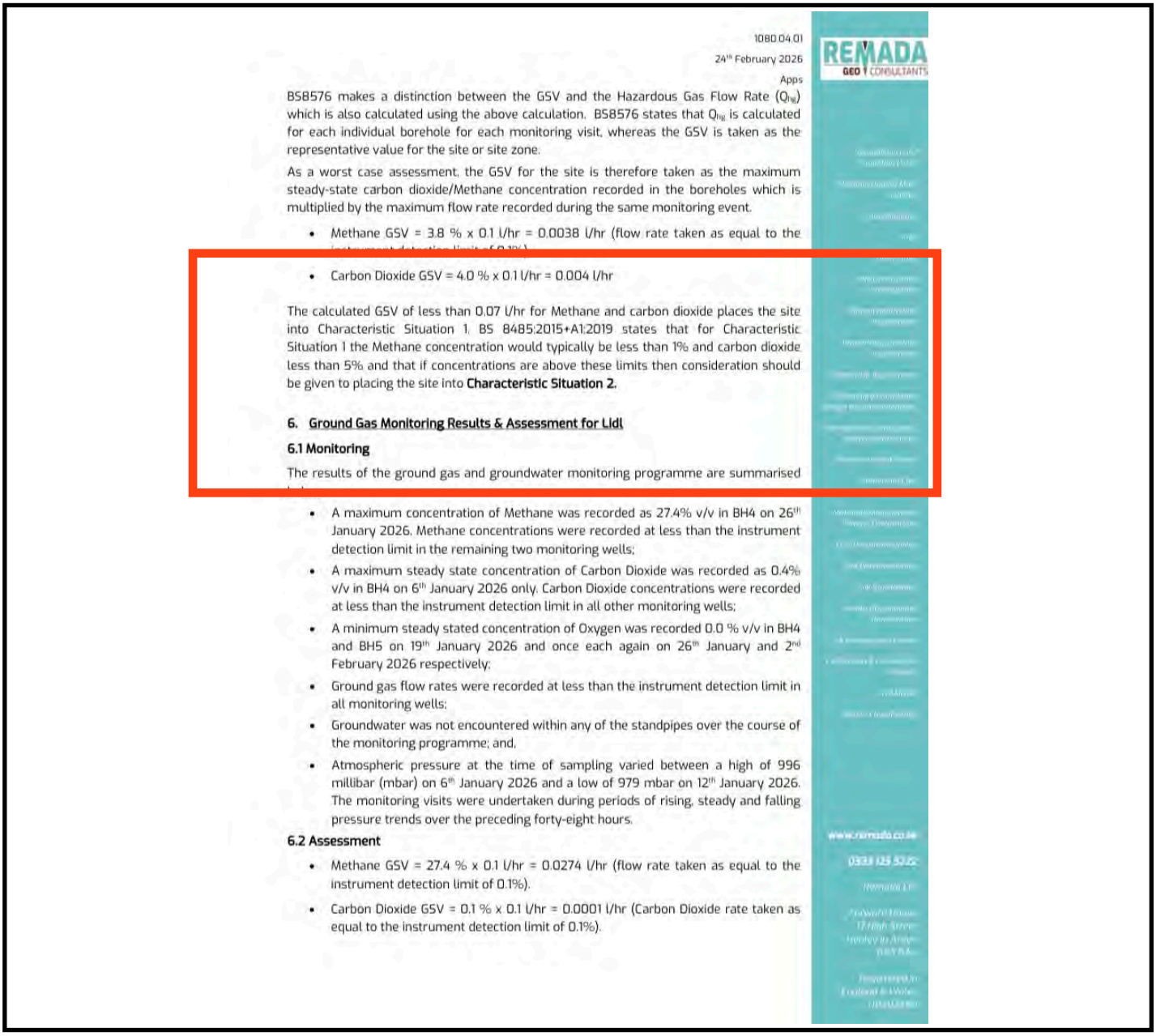
Title Reference & Description:

Ground Gas Assessment

Front page.

GeoShield Verification Plan

SPECIFICATION



1080.04.01

24th February 2026

Apps

BS8576 makes a distinction between the GSV and the Hazardous Gas Flow Rate (Q_{hg}) which is also calculated using the above calculation. BS8576 states that Q_{hg} is calculated for each individual borehole for each monitoring visit, whereas the GSV is taken as the representative value for the site or site zone.

As a worst case assessment, the GSV for the site is therefore taken as the maximum steady-state carbon dioxide/Methane concentration recorded in the boreholes which is multiplied by the maximum flow rate recorded during the same monitoring event.

- Methane GSV = 3.8 % x 0.1 l/hr = 0.0038 l/hr (flow rate taken as equal to the
- Carbon Dioxide GSV = 4.0 % x 0.1 l/hr = 0.004 l/hr

The calculated GSV of less than 0.07 l/hr for Methane and carbon dioxide places the site into Characteristic Situation 1. BS 8485:2015+A1:2019 states that for Characteristic Situation 1 the Methane concentration would typically be less than 1% and carbon dioxide less than 5% and that if concentrations are above these limits then consideration should be given to placing the site into **Characteristic Situation 2.**

6. Ground Gas Monitoring Results & Assessment for Lidl

6.1 Monitoring

The results of the ground gas and groundwater monitoring programme are summarised

- A maximum concentration of Methane was recorded as 27.4% v/v in BH4 on 26th January 2026. Methane concentrations were recorded at less than the instrument detection limit in the remaining two monitoring wells;
- A maximum steady state concentration of Carbon Dioxide was recorded as 0.4% v/v in BH4 on 6th January 2026 only. Carbon Dioxide concentrations were recorded at less than the instrument detection limit in all other monitoring wells;
- A minimum steady stated concentration of Oxygen was recorded 0.0 % v/v in BH4 and BH5 on 19th January 2026 and once each again on 26th January and 2nd February 2026 respectively;
- Ground gas flow rates were recorded at less than the instrument detection limit in all monitoring wells;
- Groundwater was not encountered within any of the standpipes over the course of the monitoring programme; and,
- Atmospheric pressure at the time of sampling varied between a high of 996 millibar (mbar) on 6th January 2026 and a low of 979 mbar on 12th January 2026. The monitoring visits were undertaken during periods of rising, steady and falling pressure trends over the preceding forty-eight hours.

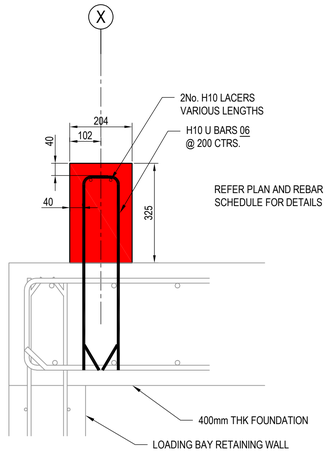
6.2 Assessment

- Methane GSV = 27.4 % x 0.1 l/hr = 0.0274 l/hr (flow rate taken as equal to the instrument detection limit of 0.1%).
- Carbon Dioxide GSV = 0.1 % x 0.1 l/hr = 0.0001 l/hr (Carbon Dioxide rate taken as equal to the instrument detection limit of 0.1%).

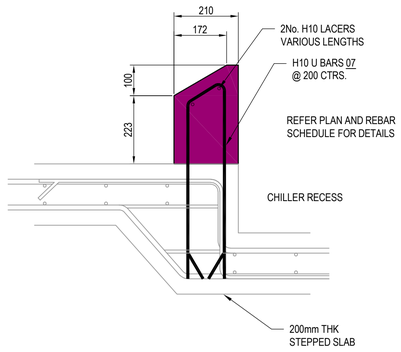
Title Reference & Description:

Ground Gas Assessment

CS2 gas protection measures required.



CONCRETE KICKER TYPE 6
Scale 1:10



CONCRETE KICKER TYPE 7
Scale 1:10



SCALE 1:50 - ENSURE PDF'S ARE PRINTED AT 1:1

CDM 2015 RISK NOTES

THE PROJECT HAS BEEN ASSESSED FOR SPECIFIC CONSTRUCTION RISK. THOSE RISKS THAT A COMPETENT CONTRACTOR SHOULD BE AWARE OF ARE NOT LISTED HERE. RISKS THAT ARE INHERENT IN THE DESIGN DECISIONS TAKEN THAT A CONTRACTOR NEEDS TO BE AWARE OF ARE HIGHLIGHTED BELOW AND REFERENCED IN LOCATION ON THE DRAWING PLANS BY THE NOTED SYMBOL.

⚠① NO SPECIFIC ISSUES TO HIGHLIGHT. CONTRACTOR TO REVIEW SEQUENCE OF WORKS AND DISCUSS WITH THE ENGINEER.

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2) IF IN DOUBT ASK.

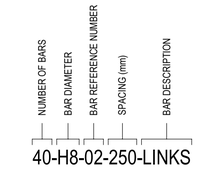
3) SITE MEASUREMENTS ARE TO BE TAKEN BY THE CONTRACTOR PRIOR TO MATERIAL ORDER. ANY DISCREPANCIES ARE TO BE REPORTED TO THE DESIGNER FOR REVIEW.

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CONSTRUCTION

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3. REFER ARCHITECTS DRAWINGS FOR CONSTRUCTION AND FINISH REQUIREMENTS.
4. NOTIFY JAMESON CE LTD IMMEDIATELY IF ANY DISCREPANCY ARISES.



SCHEDULING KEY
NTS

⚠ LACER SCHEDULE
USE 6m LONG H12 STOCK ON SITE, AND CUT TO LENGTH - NO NEED TO ORDER NEW ⚠

JAMESON CONSULTING

REBAR Schedule ref: S (40) 04 01 Rev. A
Site ref: LIDL BIRSTALL LEEDS
Date prepared: MAR 2026 Date revised: -
Location: CONC. UPSTAND - BENT BARS
Prepared By: RL Checked by: CM
Job No: 4529

Member	Bar mark	Type & size	No of mbrs	No of bars in each	Total no	Length of each bar † mm	Shape code	A mm *	B mm *	C mm *	D mm *	E/R mm *	
KICKER 1	01	H10	-	-	345	1425	29	680	125	645	123		-
KICKER 2	02	H10	-	-	494	1225	21	535	180	535			-
KICKER 3	03	H10	-	-	127	1275	21	560	191	560			-
KICKER 3a	03a	H10	-	-	117	1275	21	580	143	580			-
KICKER 4	04	H10	-	-	85	1325	21	585	187	585			A
KICKER 5	05	H10	-	-	132	1250	21	585	96	585			-
KICKER 6	06	H10	-	-	07	1375	21	635	123	635			-
KICKER 7	07	H10	-	-	47	1325	29	639	137	579	130		-

This schedule complies with the requirements of BS 8666:2005 * Specified in multiples of 5mm + Specified in multiples of 25mm

JAMESON CONSULTING

REBAR Schedule ref: S (40) 04 02 Rev. -
Site ref: LIDL BIRSTALL LEEDS
Date prepared: MAR 2026 Date revised: -
Location: CONC. UPSTANDS - LACERS
Prepared By: RL Checked by: CM
Job No: 4529

Member	Bar mark	Type & size	No of mbrs	No of bars in each	Total no	Length of each bar † mm	Shape code	A mm *	B mm *	C mm *	D mm *	E/R mm *	
	10	H10	-	-	04	2250	00	2244					-
	11	H10	-	-	02	2925	00	2920					-
	12	H10	-	-	02	5850	00	5846					-
	13	H10	-	-	04	5025	00	5024					-
	14	H10	-	-	16	4850	00	4827					-
	15	H10	-	-	20	5050	00	5048					-
	16	H10	-	-	02	2275	00	2273					-
	17	H10	-	-	02	250	00	244					-
	18	H10	-	-	02	4950	00	4934					-
	19	H10	-	-	02	3250	00	3230					-
	20	H10	-	-	02	2825	00	2823					-
	21	H10	-	-	02	750	00	741					-
	22	H10	-	-	02	1275	00	1263					-
	23	H10	-	-	02	300	00	294					-
	24	H10	-	-	02	3850	00	3841					-
	25	H10	-	-	02	4550	00	4535					-
	26	H10	-	-	02	4925	00	4910					-
	27	H10	-	-	02	1200	00	1197					-
	28	H10	-	-	02	3850	00	3842					-
	29	H10	-	-	02	2825	00	2823					-
	30	H10	-	-	02	4175	00	4161					-
	31	H10	-	-	02	4850	00	4837					-
	32	H10	-	-	02	1325	00	1318					-

This schedule complies with the requirements of BS 8666:2005 * Specified in multiples of 5mm + Specified in multiples of 25mm

JAMESON CONSULTING

REBAR Schedule ref: S (40) 04 03 Rev. -
Site ref: LIDL BIRSTALL LEEDS
Date prepared: MAR 2026 Date revised: -
Location: CONC. UPSTANDS - LACERS
Prepared By: RL Checked by: CM
Job No: 4529

Member	Bar mark	Type & size	No of mbrs	No of bars in each	Total no	Length of each bar † mm	Shape code	A mm *	B mm *	C mm *	D mm *	E/R mm *	
	33	H10	-	-	02	400	00	387					-
	34	H10	-	-	02	4950	00	4935					-
	35	H10	-	-	02	4650	00	4636					-
	36	H10	-	-	02	4800	00	4798					-
	37	H10	-	-	02	3325	00	3324					-
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	39	H10	-	-	02	900	00	884					-
	40	H10	-	-	02	2275	00	2275					-
	41	H10	-	-	02	2750	00	2749					-
	42	H10	-	-	02	5100	00	5081					-
	43	H10	-	-	02	3575	00	3572					-
	44	H10	-	-	02	5100	00	5078					-
	45	H10	-	-	02	3700	00	3690					-
	46	H10	-	-	04	4900	00	4880					-
	47	H10	-	-	02	3075	00	3052					-
	48	H10	-	-	02	3775	00	3762					-
	49	H10	-	-	02	2700	00	2682					-
	50	H10	-	-	02	2050	00	2043					-
	51	H10	-	-	02	725	00	707					-
	52	H10	-	-	02	4125	00	4109					-
	53	H10	-	-	02	4125	00	4120					-
	54	H10	-	-	02	4525	00	4520					-
	55	H10	-	-	04	4850	00	4831					-

This schedule complies with the requirements of BS 8666:2005 * Specified in multiples of 5mm + Specified in multiples of 25mm

JAMESON CONSULTING

REBAR Schedule ref: S (40) 04 04 Rev. A
Site ref: LIDL BIRSTALL LEEDS
Date prepared: MAR 2026 Date revised: -
Location: CONC. UPSTANDS - LACERS
Prepared By: RL Checked by: CM
Job No: 4529

Member	Bar mark	Type & size	No of mbrs	No of bars in each	Total no	Length of each bar † mm	Shape code	A mm *	B mm *	C mm *	D mm *	E/R mm *	
	56	H10	-	-	02	950	00	923					-
	57	H10	-	-	02	1300	00	1300					-
	58	H10	-	-	02	1375	00	1367					-
	59	H10	-	-	02	4800	00	4786					-
	60	H10	-	-	02	500	00	500					A

This schedule complies with the requirements of BS 8666:2005 * Specified in multiples of 5mm + Specified in multiples of 25mm

REV	DESCRIPTION	BY	CHK	APP	DATE
A	FIRE CURTAIN UPSTAND ADDED.	RL	EJ	CM	12.03.25

JAMESON CONSULTING
Pure Offices, 4100 Park Approach, Thorpe Park, Leeds LS15 8GB
0113 8231 915 info@jamesonconsulting.co.uk

Client:

Project:
LIDL BIRSTALL
LEEDS

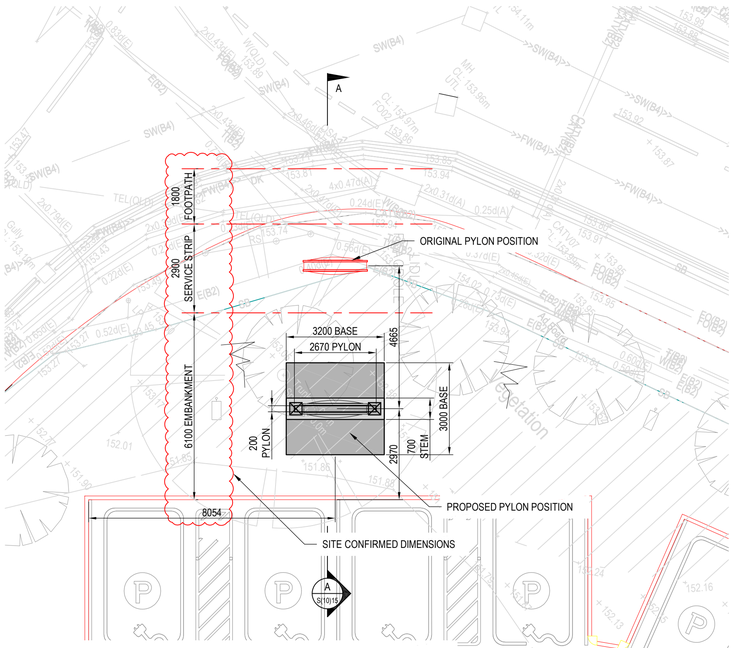
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PROPOSED NEW STORE
CONC. UPSTAND REBAR SCHEDULE
DRAWING 2 OF 2

Scale	Drawn	Checked	Approved
A1 1:10	RL Date MAR 26	EJ Date MAR 26	CM Date MAR 26

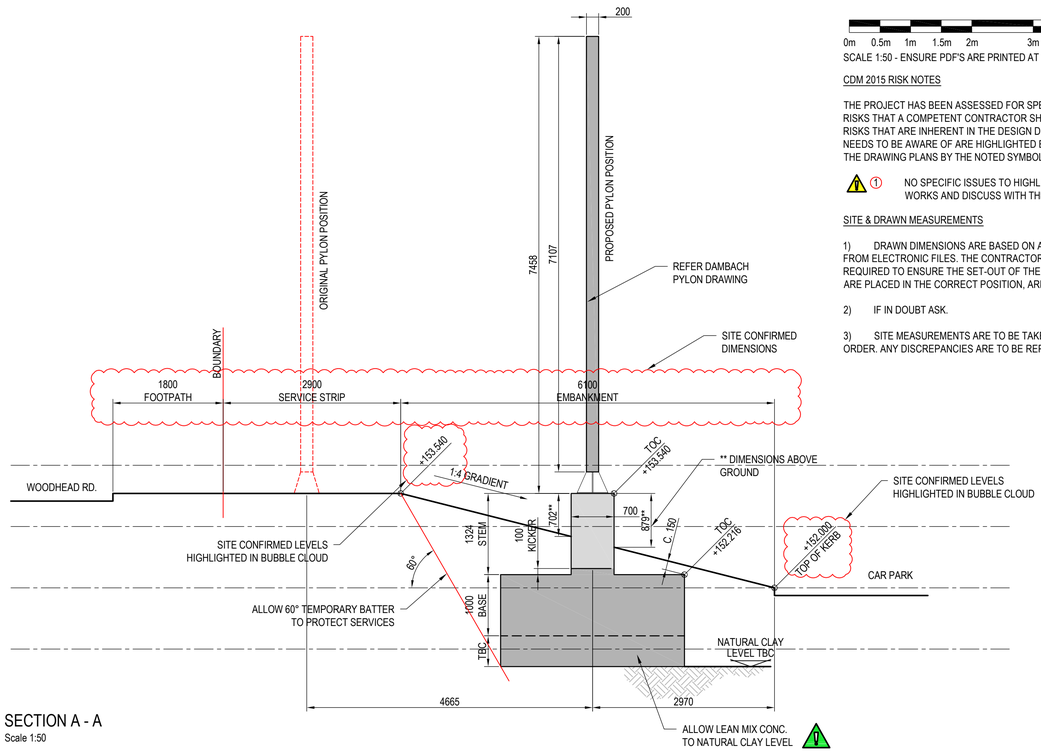
Drawing No. 4529 JCE S (40) 05
Revision A

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SHEET SIZE : A1 LANDSCAPE

D:\RAME C:\JAMESON\CIVIL\ENGINEERING\PROJECTS_DOCUMENTS\01 ARB JCE\01 LIDL BIRSTALL\DRAWINGS\JAMESON\JCE\DRAWINGS\04 PLOTTED BY: ROHAN.HARDEN - PLOTTED DATE: 12 March 2026 11:54:11



SITE PLAN - PYLON & BASE
Scale 1:100



SECTION A - A
Scale 1:50

0m 0.5m 1m 1.5m 2m 3m 4m 5m
SCALE 1:50 - ENSURE PDF'S ARE PRINTED AT 1:1

CDM 2015 RISK NOTES

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AS BUILT STATUS

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4. NOTIFY JAMESON CE LTD IMMEDIATELY IF ANY DISCREPANCY ARISES.

RC DETAILING NOTES

1. ALL CONCRETE WORK IS TO BE IN ACCORDANCE WITH JCE-LTD NBS-SECTION E.
2. ALL REINFORCEMENT DETAILED IN ACCORDANCE WITH BS 8666:2005
3. REBAR TO BE GRADE B500B OR B500C CONFORMING TO BS 4449 2005
4. MINIMUM YIELD STRENGTH = 500 N/mm²
5. FORMED JOINTS AS PROPOSED ON PLAN TO BE FOLLOWED UNLESS PRIOR AGREEMENT SOUGHT FROM JCE LTD.

CONCRETE NOTES

1. ALL CONCRETE WORK IS TO BE IN ACCORDANCE WITH JCE-LTD NBS-SECTION E
2. RELEVANT CONCRETE MIX DESIGN :-

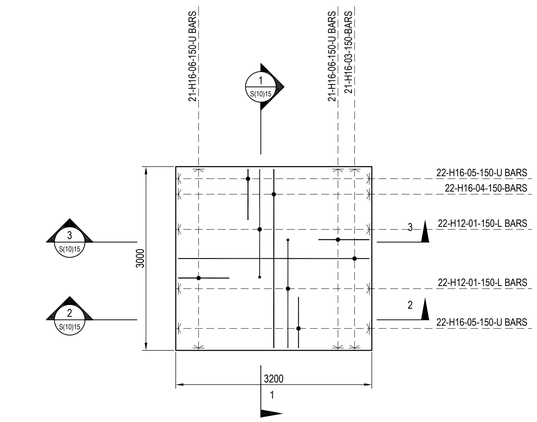
CONCRETE ELEMENT	DESIGN CHEMICAL CLASS	SPEC. CLAUSE No.
PYLON BASE	DC-1	130 C

3. SURFACE FINISH TO CONCRETE TO BE IN ACCORDANCE WITH SECTION 600. ALL FACES TO BE "AS CAST" UNLESS SPECIFIED BELOW :-

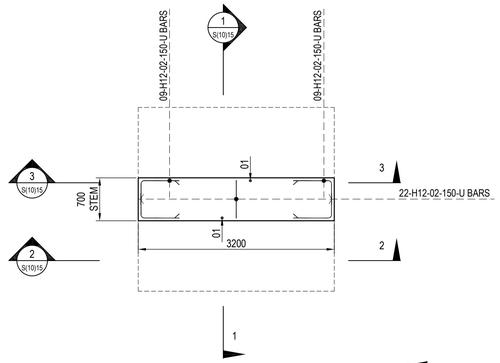
CONCRETE ELEMENT	SURFACE FINISH			
	TOP	BOTTOM	SIDE	END
PYLON BASE	FLOATED	---	SHUTTER	SHUTTER

4. ALL SERVICE ACCESSES TO BE RAISED TO NEW LEVEL.
5. ALL SURFACE MOUNTED KIT TO BE REMOVED, STORED AND REFITTED.
6. REFER JCE SPECIFICATION FOR CONCRETE CURING PROVISION. CARE TO BE TAKEN TO CURE TOPPING TO PREVENT EARLY SHRINKAGE CRACKS.
7. FORMED JOINTS AS PROPOSED ON PLAN TO BE FOLLOWED UNLESS PRIOR AGREEMENT SOUGHT FROM JCE LTD.

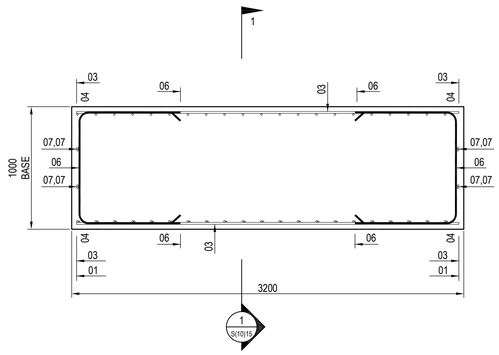
130C NORMAL DESIGNED MIX FOR REINFORCED CONCRETE FOUNDATIONS
- TO THE RELEVANT CLAUSES OF BS 5328:PARTS 2, 3 AND 4.
- GRADE C35
- NOMINAL MAXIMUM SIZE OF AGGREGATE: 20 MM
- AGGREGATE(S):
  COARSE: TO BS 882.
  SAND: TO BS 882.
  SPECIAL REQUIREMENTS: NONE
- CEMENT:
  PC, PBFC, HSBC, PPFAC.
  COMBINATIONS TO BS 5328 OF PC WITH GGBS OR PFA.
- MINIMUM CEMENT CONTENT: 300 KG/CU M
- MAXIMUM FREE-WATER/CEMENT RATIO: 0.6
- MAXIMUM CEMENT CONTENT: 450 KG/CU M
- ADMIXTURE(S): NONE
- MAXIMUM TOTAL PERCENTAGE OF CHLORIDE ION BY MASS OF CEMENT: 0.4%
- RATE OF SAMPLING FOR COMPRESSIVE STRENGTH TESTING: ONE SAMPLE PER 20 M³ OR 3 BATCHES WHICHEVER REPRESENTS THE LESSER VOLUME, BUT NOT LESS THAN ONE FOR EACH DAY OF USE.
- INFORMATION TO BE PROVIDED BY THE PRODUCER: AS BS 5328:PART 3, CLAUSE 3.



PLAN ON PYLON BASE REBAR - BOTTOM OF BASE
Scale 1:50



PLAN ON PYLON BASE REBAR - TOP OF STEM TOC +153.540
Scale 1:50



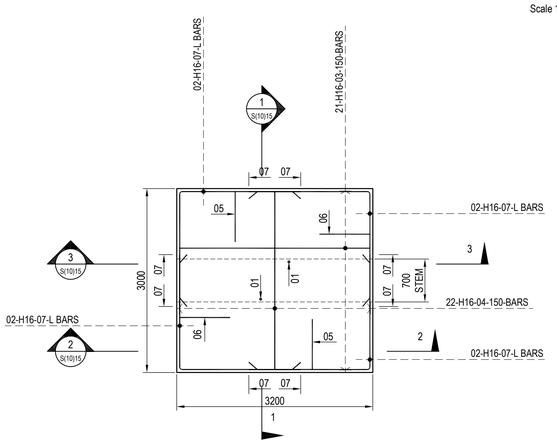
PYLON BASE RE-BAR SECTION 2 - 2
Scale 1:25

Member	Bar mark	Type & size	No of sets	No of bars in each set	Total no.	Length of each bar mm	Shape code	A mm	B mm	C mm	D mm	E/R mm	
	01	H12	-	-	44	4025	11	1814	2222				-
	02	H12	-	-	40	1825	21	624	620	624			-
	03	H16	-	-	42	3125	00	3120					-
	04	H16	-	-	44	2925	00	2920					-
	05	H16	-	-	44	2500	21	832	888	832			-
	06	H16	-	-	42	2550	21	832	920	832			-
	07	H16	-	-	08	3850	11	1984	1884				-

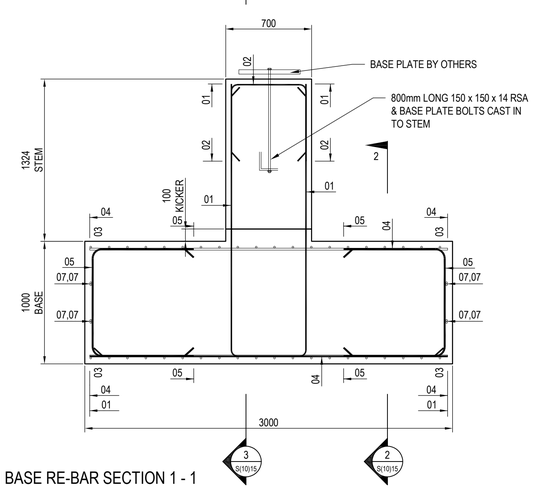
JAMESON CONSULTING
Site ref: LIDL BIRSTALL
Location: PYLON BASE
Job No: 4529
REBAR Schedule ref: S (40) 06 | 01 | -
Date prepared: 11.05.26 | Date revised:
Prepared By: RL | Checked by: CM

This schedule complies with the requirements of BS 8666:2005
* Specified in multiples of 5mm
+ Specified in multiples of 25mm

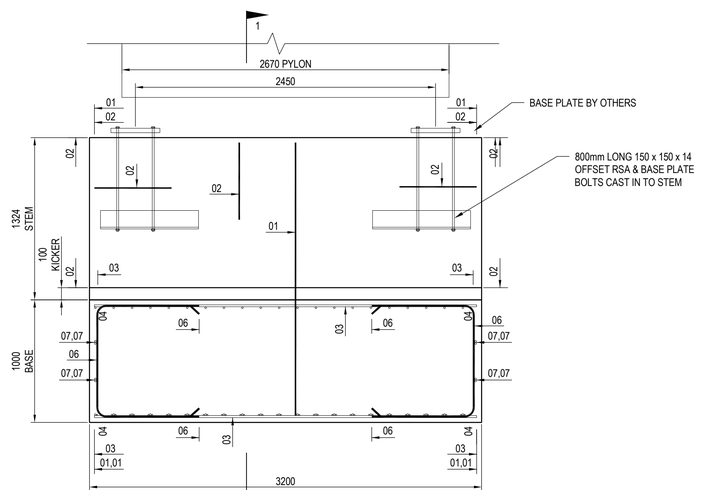
REV	DESCRIPTION	BY	CHK	APP	DATE
A	DRAWING STATUS REVISED TO AS BUILT	RL	CM	CM	02.09.26



PLAN ON PYLON BASE REBAR - TOP OF BASE TOC +152.216
Scale 1:50



PYLON BASE RE-BAR SECTION 1 - 1
Scale 1:25



PYLON BASE RE-BAR SECTION 3 - 3
Scale 1:25

JAMESON CONSULTING
Pure Offices, 4100 Park Approach, Thorpe Park, Leeds LS15 8GB
0113 8231 915 info@jamesonconsulting.co.uk

Client: LIDL

Project:
LIDL BIRSTALL
LEEDS

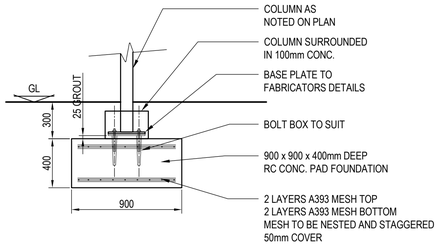
Drawing Title:
PROPOSED NEW STORE
PROPOSED PYLON BASE
PLANS, SECTIONS & DETAILS

Scale	Drawn	Date	Checked	Date	Approved	Date
A1 1:100, 50 & 25	RL	MAY 26	CM	MAY 26	CM	MAY 26

Drawing No. 4529 JCE S (10) 15
Revision A

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SHEET SIZE : A1 LANDSCAPE

D:\WIP - JCE\4529 LIDL BIRSTALL\CONSULTING\DWG\4529 (10) PYLON BASE.DWG | PLOTTED BY : RICHARD LAWFORD | PLOTTED DATE : 02 September 2026 9:05:54



SECTION THROUGH PAD FOUNDATION
Scale 1:25

0m 0.5m 1m 1.5m 2m 3m 4m 5m

SCALE 1:50 - ENSURE PDF'S ARE PRINTED AT 1:1

CDM 2015 RISK NOTES

THE PROJECT HAS BEEN ASSESSED FOR SPECIFIC CONSTRUCTION RISK. THOSE RISKS THAT A COMPETENT CONTRACTOR SHOULD BE AWARE OF ARE NOT LISTED HERE. RISKS THAT ARE INHERENT IN THE DESIGN DECISIONS TAKEN THAT A CONTRACTOR NEEDS TO BE AWARE OF ARE HIGHLIGHTED BELOW AND REFERENCED IN LOCATION ON THE DRAWING PLANS BY THE NOTED SYMBOL.

⚠1 NO SPECIFIC ISSUES TO HIGHLIGHT. CONTRACTOR TO REVIEW SEQUENCE OF WORKS AND DISCUSS WITH THE ENGINEER.

SITE & DRAWN MEASUREMENTS

1) DRAWN DIMENSIONS ARE BASED ON ARCHITECTS DRAWINGS OR INTERPOLATED FROM ELECTRONIC FILES. THE CONTRACTOR SHOULD TAKE SITE MEASUREMENTS AS REQUIRED TO ENSURE THE SET-OUT OF THE BUILDING IS CORRECT AND STRUCTURAL ITEMS ARE PLACED IN THE CORRECT POSITION, ARE THE CORRECT LENGTH AND PROPORTIONS.

2) IF IN DOUBT ASK.

3) SITE MEASUREMENTS ARE TO BE TAKEN BY THE CONTRACTOR PRIOR TO MATERIAL ORDER. ANY DISCREPANCIES ARE TO BE REPORTED TO THE DESIGNER FOR REVIEW.

NOTES:
DO NOT SCALE FROM THIS DRAWING, UTILISE ONLY NUMBERED DIMENSIONS.
THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS, NOTIFY JAMESON CONSULTING LTD, IMMEDIATELY OF ANY DISCREPANCIES. UNLESS NOTED OTHERWISE.
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DRAWING STATUS
AS BUILT STATUS

GENERAL NOTES

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS ARE SHOWN FOR DESIGN AND TENDER PURPOSES ONLY. ACTUAL SURVEY OR ARCHITECTS DIMENSIONS SHOULD BE USED IN ALL CASES. BUILDER/CONTRACTOR TO SATISFY THEMSELVES THAT DIMENSIONS ARE CORRECT PRIOR TO MATERIAL ORDER.
3. REFER ARCHITECTS DRAWINGS FOR CONSTRUCTION AND FINISH REQUIREMENTS.
4. NOTIFY JAMESON CE LTD IMMEDIATELY IF ANY DISCREPANCY ARISES.

CONCRETE NOTES

1. ALL CONCRETE WORK IS TO BE IN ACCORDANCE WITH JCE-LTD NBS-SECTION E
2. RELEVANT CONCRETE MIX DESIGN :-

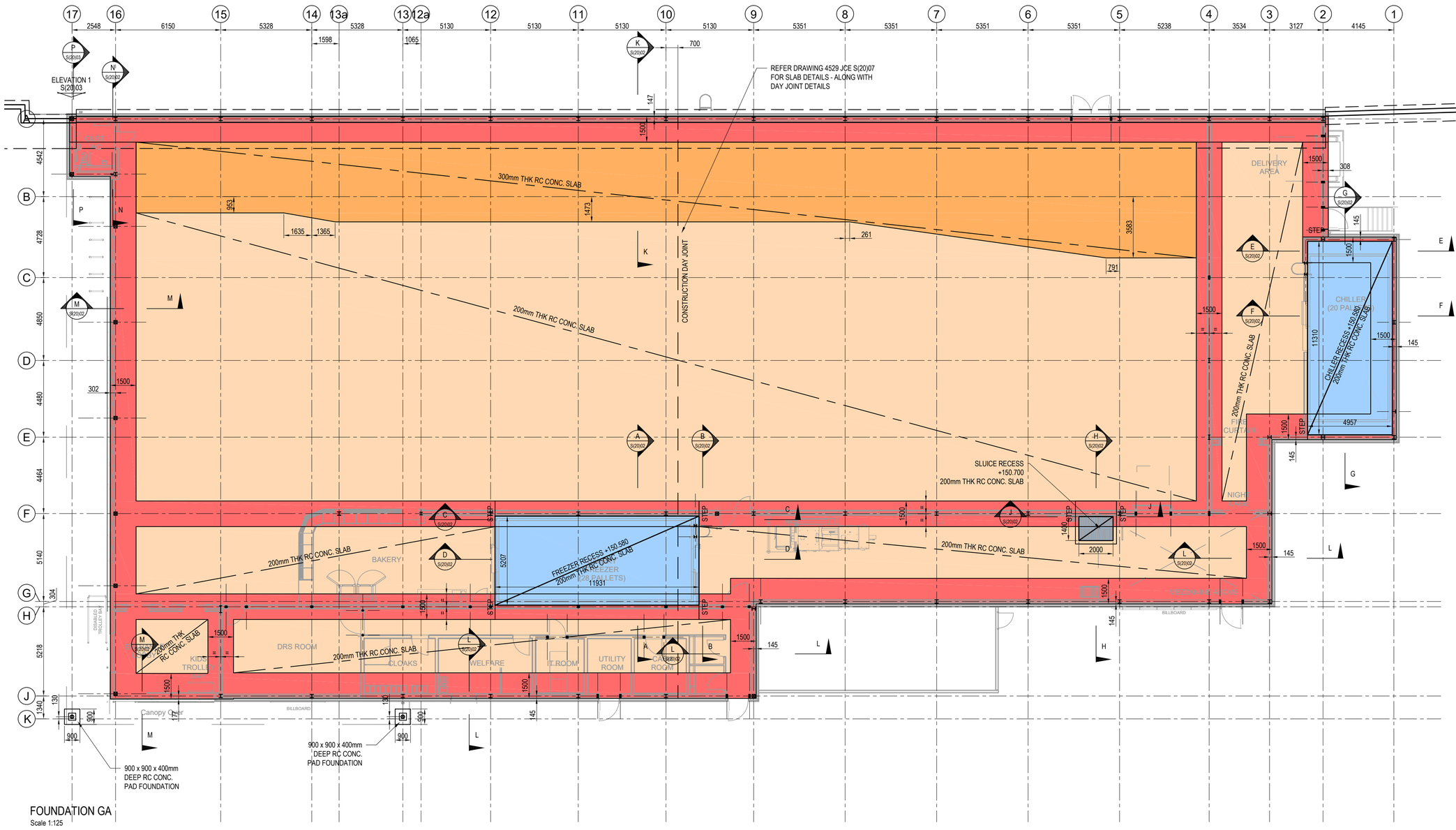
CONCRETE ELEMENT	DESIGN CHEMICAL CLASS	SPEC. CLAUSE No.
SLAB	DC-1	130 O
RETAINING WALLS	DC-1	130 O
FOUNDATIONS	DC-1	130 C

3. SURFACE FINISH TO CONCRETE TO BE IN ACCORDANCE WITH SECTION 600. ALL FACES TO BE "AS CAST" UNLESS SPECIFIED BELOW :-

CONCRETE ELEMENT	SURFACE FINISH			
	TOP	BOTTOM	SIDE	END
SLAB	FLOATED	---	SHUTTER	SHUTTER

4. ALL SERVICE ACCESSES TO BE RAISED TO NEW LEVEL.
5. ALL SURFACE MOUNTED KIT TO BE REMOVED, STORED AND REFITTED.
6. REFER JCE SPECIFICATION FOR CONCRETE CURING PROVISION. CARE TO BE TAKEN TO CURE TOPPING TO PREVENT EARLY SHRINKAGE CRACKS.
7. FORMED JOINTS AS PROPOSED ON PLAN TO BE FOLLOWED UNLESS PRIOR AGREEMENT SOUGHT FROM JCE LTD.

DRAWING KEY - PRINT IN COLOUR
- 400mm THK CONC. FOOTING
- 300mm THK CONC. SLAB
- 200mm THK CONC. SLAB
- RECESSED 200mm THK CONC. SLAB



FOUNDATION GA
Scale 1:125

REV	DESCRIPTION	BY	CHK	APP	DATE
E	DRAWING STATUS REVISED TO AS BUILT	RL	CM	CM	02.09.26
D	FREEZER RECESS EXTENT AMENDED IN LINE WITH SITE CHANGES.	RL	CM	CM	25.03.26
C	SLAB DETAILS MIGRATED ACROSS TO DRAWING 4529 JCE S(20)07	RL	CM	CM	19.03.26
B	SLAB CONSTRUCTION DAY JOINT SHOWN	RL	CM	CM	12.03.26
A	MINOR CHANGES	RL	CM	CM	02.03.26

JAMESON CONSULTING
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0113 8231 915 info@jamesonconsulting.co.uk

Client:

Project:
LIDL BIRSTALL
LEEDS

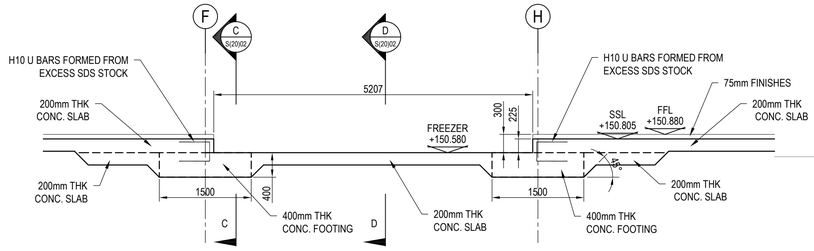
Drawing Title:
PROPOSED NEW STORE
FOUNDATION GA

Scale	A1	Drawn	Date	Checked	Date	Approved	Date
1:125 & 25		RL	JAN 26	EJ	JAN 26	CM	JAN 26

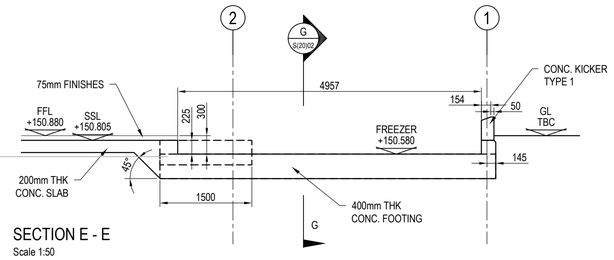
Drawing No.
4529 JCE S (20) 01

Revision
E

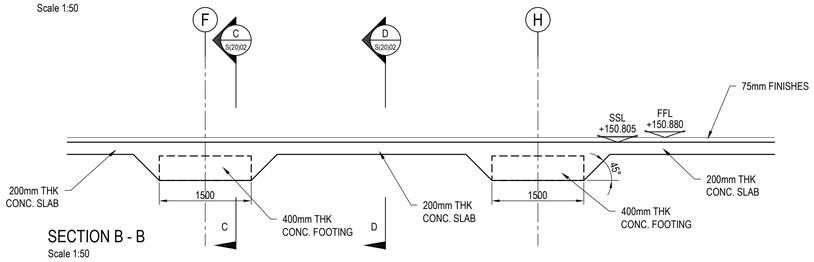
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SHEET SIZE : A1 LANDSCAPE



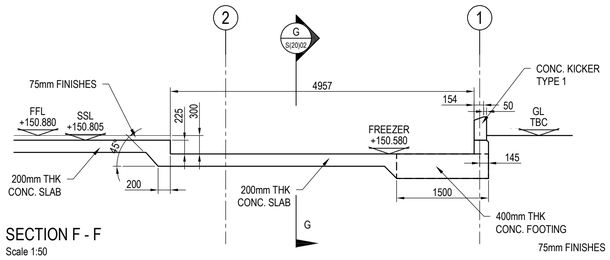
SECTION A - A
Scale 1:50



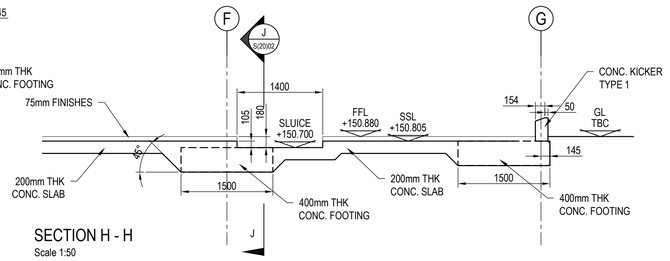
SECTION E - E
Scale 1:50



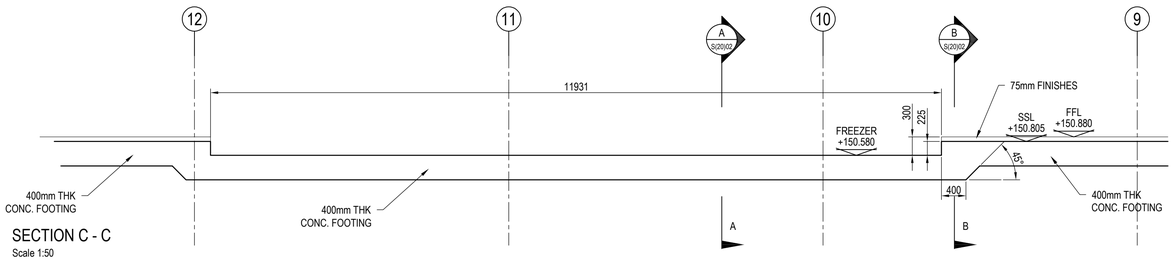
SECTION B - B
Scale 1:50



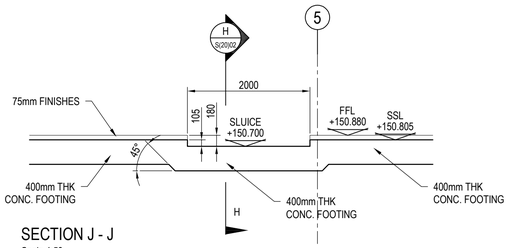
SECTION F - F
Scale 1:50



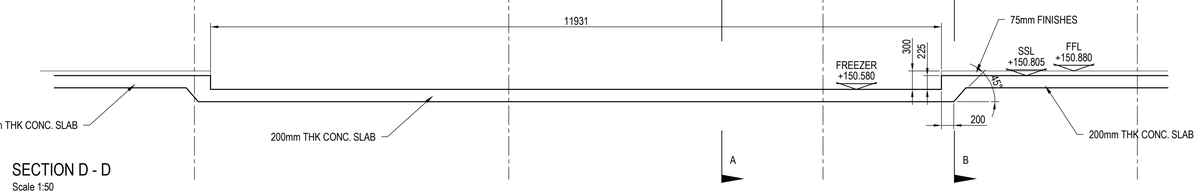
SECTION H - H
Scale 1:50



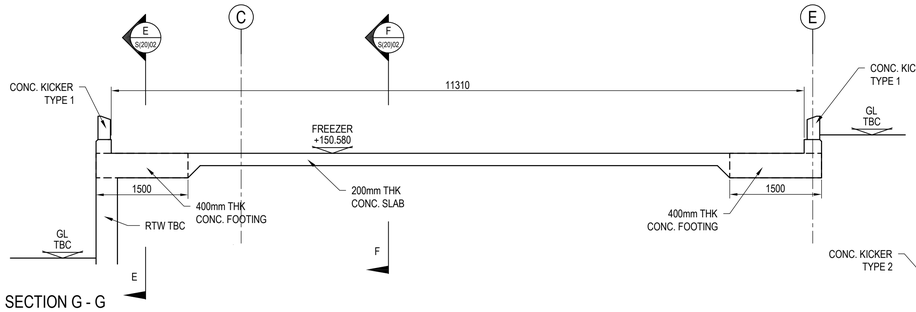
SECTION C - C
Scale 1:50



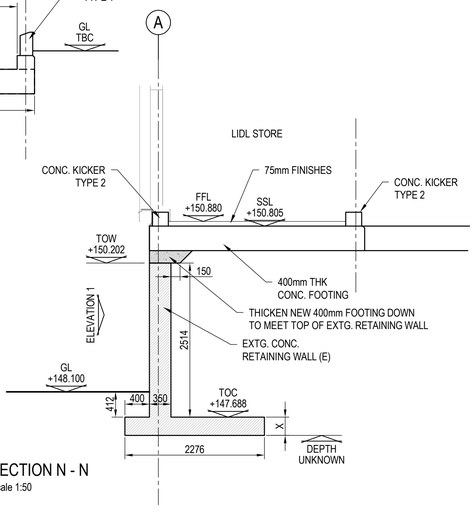
SECTION J - J
Scale 1:50



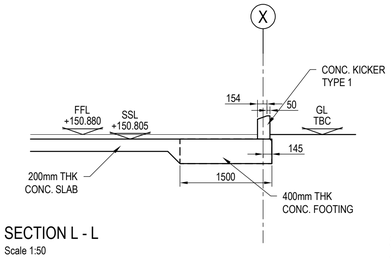
SECTION D - D
Scale 1:50



SECTION G - G
Scale 1:50

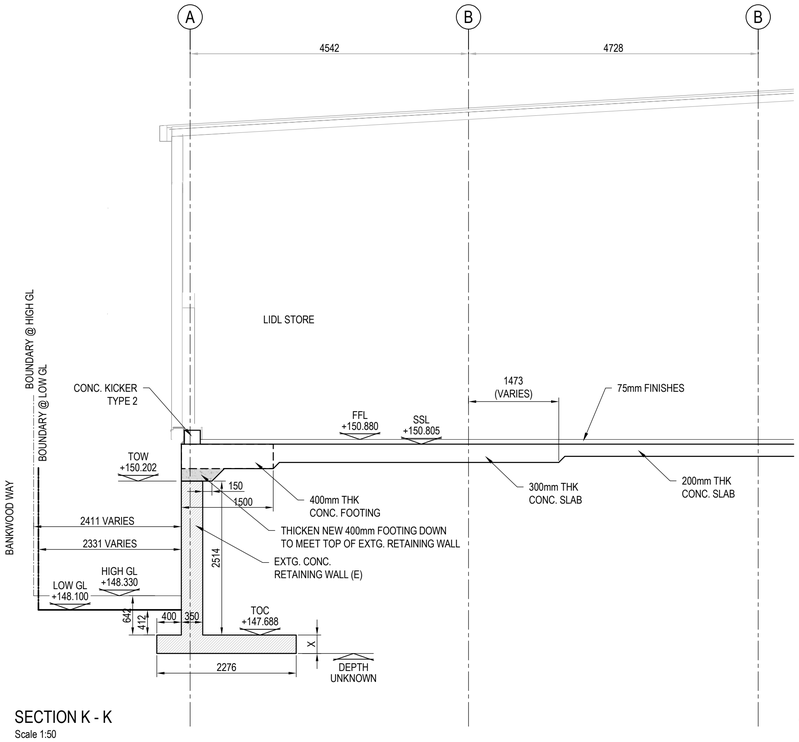


SECTION N - N
Scale 1:50



SECTION M - M
Scale 1:50

SECTION L - L
Scale 1:50



SECTION K - K
Scale 1:50

0m 0.5m 1m 1.5m 2m 3m 4m 5m

SCALE 1:50 - ENSURE PDF'S ARE PRINTED AT 1:1

CDM 2015 RISK NOTES

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⚠ ① NO SPECIFIC ISSUES TO HIGHLIGHT. CONTRACTOR TO REVIEW SEQUENCE OF WORKS AND DISCUSS WITH THE ENGINEER.

SITE & DRAWN MEASUREMENTS

1) DRAWN DIMENSIONS ARE BASED ON ARCHITECTS DRAWINGS OR INTERPOLATED FROM ELECTRONIC FILES. THE CONTRACTOR SHOULD TAKE SITE MEASUREMENTS AS REQUIRED TO ENSURE THE SET-OUT OF THE BUILDING IS CORRECT AND STRUCTURAL ITEMS ARE PLACED IN THE CORRECT POSITION, ARE THE CORRECT LENGTH AND PROPORTIONS.

2) IF IN DOUBT ASK.

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DRAWING STATUS

AS BUILT STATUS

GENERAL NOTES

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CONCRETE NOTES

1. ALL CONCRETE WORK IS TO BE IN ACCORDANCE WITH JCE-LTD NBS-SECTION E
2. RELEVANT CONCRETE MIX DESIGN :-

CONCRETE ELEMENT	DESIGN CHEMICAL CLASS	SPEC. CLAUSE No.
SLAB	DC-1	130 O
RETAINING WALLS	DC-1	130 O
FOUNDATIONS	DC-1	130 C

3. SURFACE FINISH TO CONCRETE TO BE IN ACCORDANCE WITH SECTION 600. ALL FACES TO BE "AS CAST" UNLESS SPECIFIED BELOW :-

CONCRETE ELEMENT	SURFACE FINISH			
	TOP	BOTTOM	SIDE	END
SLAB	FLOATED	---	SHUTTER	SHUTTER

4. ALL SERVICE ACCESSES TO BE RAISED TO NEW LEVEL.
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REV	DESCRIPTION	BY	CHK	APP	DATE
C	DRAWING STATUS REVISED TO AS BUILT	RL	CM	CM	02.09.26
B	FREEZER RECESS SECTION A - A AMENDED IN LINE WITH SITE CHANGES.	RL	CM	CM	25.03.26
A	MINOR CHANGES	RL	CM	CM	02.03.26

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0113 8231 915 info@jamesonconsulting.co.uk

Client: LIDL

Project:
LIDL BIRSTALL
LEEDS

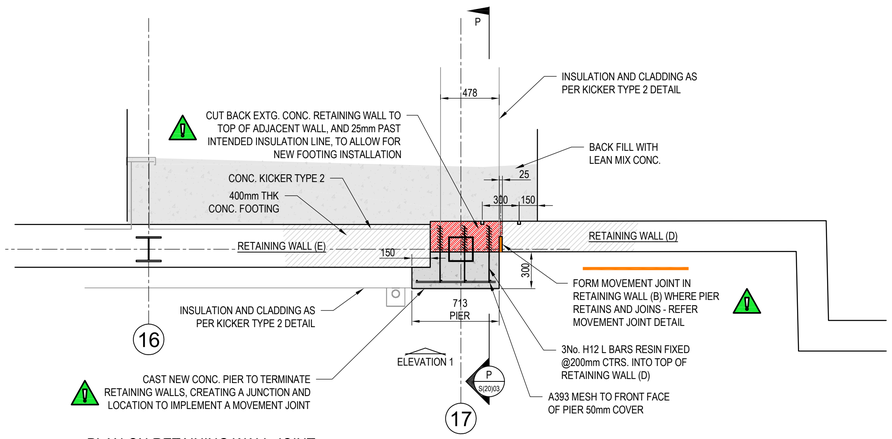
Drawing Title:
PROPOSED NEW STORE
FOUNDATION SECTIONS 01

Scale	Drawn	Date	Checked	Date	Approved	Date
A1 1:50	RL	JAN 26	EJ	JAN 26	CM	JAN 26

Drawing No. 4529 JCE S (20) 02
Revision C

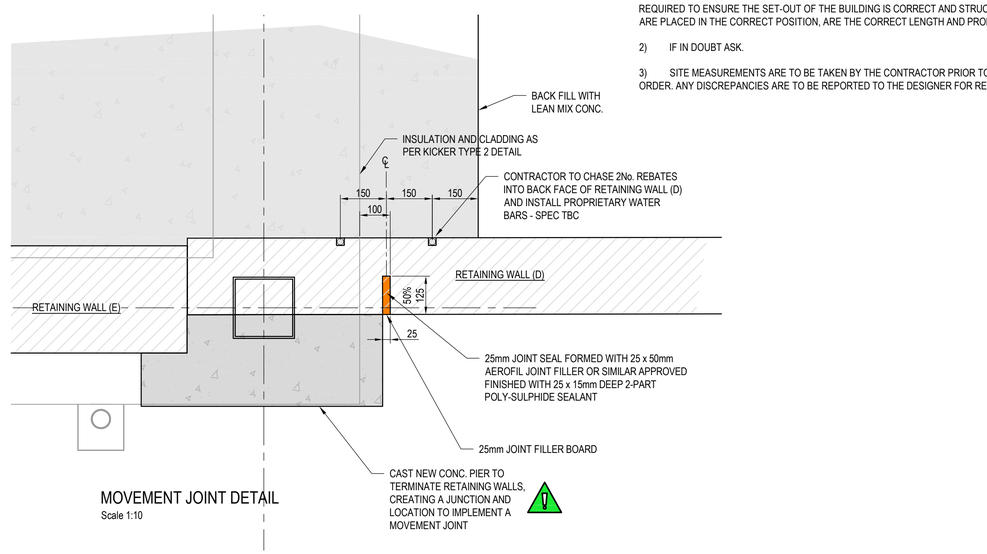
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SHEET SIZE : A1 LANDSCAPE

E:\JME CJAMESON\JCE\DRAWINGS\NEW\PROJECTS\BIRSTALL\DRAWINGS\BIRSTALL 4529 JCE S(20) 02 SECTIONS.DWG | PLOTTED BY: RICHARD.WATSON | PLOTTED DATE: 25/March/2026 09:53:33



PLAN ON RETAINING WALL JOINT

Scale 1:25



MOVEMENT JOINT DETAIL

Scale 1:10

0m 0.5m 1m 1.5m 2m 3m 4m 5m

SCALE 1:50 - ENSURE PDF'S ARE PRINTED AT 1:1

CDM 2015 RISK NOTES

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DRAWING STATUS

AS BUILT STATUS

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3. REFER ARCHITECTS DRAWINGS FOR CONSTRUCTION AND FINISH REQUIREMENTS.
4. NOTIFY JAMESON CE LTD IMMEDIATELY IF ANY DISCREPANCY ARISES.

CONCRETE NOTES

1. ALL CONCRETE WORK IS TO BE IN ACCORDANCE WITH JCE-LTD NBS-SECTION E

2. RELEVANT CONCRETE MIX DESIGN :-

CONCRETE ELEMENT	DESIGN CHEMICAL CLASS	SPEC. CLAUSE No.
SLAB	DC-1	130 D
RETAINING WALLS	DC-1	130 O
FOUNDATIONS	DC-1	130 C

3. SURFACE FINISH TO CONCRETE TO BE IN ACCORDANCE WITH SECTION 600. ALL FACES TO BE "AS CAST" UNLESS SPECIFIED BELOW :-

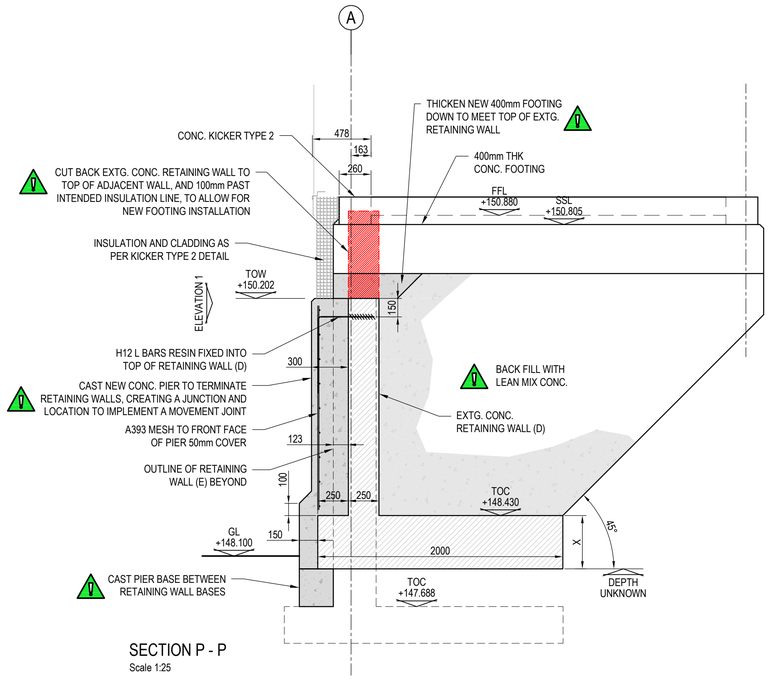
CONCRETE ELEMENT	SURFACE FINISH			
	TOP	BOTTOM	SIDE	END
-	-	-	-	-

4. ALL SERVICE ACCESSES TO BE RAISED TO NEW LEVEL.

5. ALL SURFACE MOUNTED KIT TO BE REMOVED, STORED AND REFITTED.

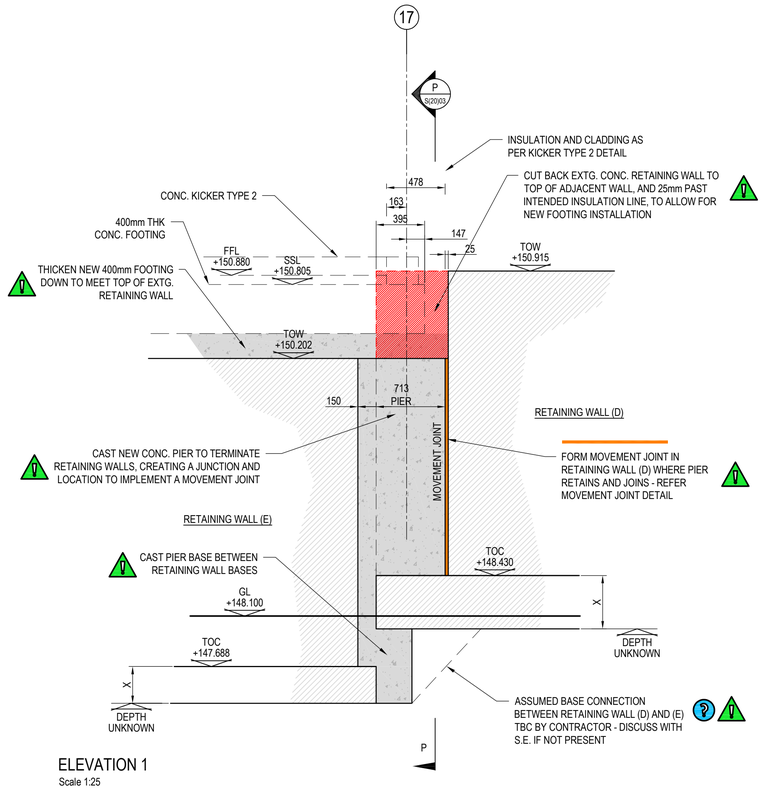
6. REFER JCE SPECIFICATION FOR CONCRETE CURING PROVISION. CARE TO BE TAKEN TO CURE TOPPING TO PREVENT EARLY SHRINKAGE CRACKS.

7. FORMED JOINTS AS PROPOSED ON PLAN TO BE FOLLOWED UNLESS PRIOR AGREEMENT SOUGHT FROM JCE LTD.



SECTION P - P

Scale 1:25



ELEVATION 1

Scale 1:25

REV	DESCRIPTION	BY	CHK	APP	DATE
B	DRAWING STATUS REVISED TO AS BUILT	RL	CM	CM	02.09.26
A	PIER WIDTH REDUCED. DRAWING STATUS REVISED.	RL	CM	CM	04.03.26

JAMESON CONSULTING

Pure Offices, 4100 Park Approach, Thorpe Park, Leeds LS15 8GB
0113 8231 915 info@jamesonconsulting.co.uk

Client:

LIDL

Project:

LIDL BIRSTALL
LEEDS

Drawing Title:

PROPOSED NEW STORE
FOUNDATION SECTIONS 02

Scale	Drawn	Date	Checked	Date	Approved	Date
A1 1:50 & 25	RL	FEB 26	EJ	FEB 26	CM	FEB 26

Drawing No. 4529 JCE S (20) 03

Revision B

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SHEET SIZE : A1 LANDSCAPE

E:\JOBS - CLIENTS\JCE ENGINEERING\4529 LIDL\DRAWINGS\4529 JCE S (20) 03 LIDL BIRSTALL DRAWINGS.DWG | PLOTTED BY: RICHARD.HARPER | PLOTTED DATE: 02 September 2026 9:55:57

0m 0.5m 1m 1.5m 2m 3m 4m 5m

SCALE 1:50 - ENSURE PDF'S ARE PRINTED AT 1:1

CDM 2015 RISK NOTES

THE PROJECT HAS BEEN ASSESSED FOR SPECIFIC CONSTRUCTION RISK. THOSE RISKS THAT A COMPETENT CONTRACTOR SHOULD BE AWARE OF ARE NOT LISTED HERE. RISKS THAT ARE INHERENT IN THE DESIGN DECISIONS TAKEN THAT A CONTRACTOR NEEDS TO BE AWARE OF ARE HIGHLIGHTED BELOW AND REFERENCED IN LOCATION ON THE DRAWING PLANS BY THE NOTED SYMBOL.

① NO SPECIFIC ISSUES TO HIGHLIGHT. CONTRACTOR TO REVIEW SEQUENCE OF WORKS AND DISCUSS WITH THE ENGINEER.

SITE & DRAWN MEASUREMENTS

1) DRAWN DIMENSIONS ARE BASED ON ARCHITECTS DRAWINGS OR INTERPOLATED FROM ELECTRONIC FILES. THE CONTRACTOR SHOULD TAKE SITE MEASUREMENTS AS REQUIRED TO ENSURE THE SET-OUT OF THE BUILDING IS CORRECT AND STRUCTURAL ITEMS ARE PLACED IN THE CORRECT POSITION, ARE THE CORRECT LENGTH AND PROPORTIONS.

2) IF IN DOUBT ASK.

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NOTES:
DO NOT SCALE FROM THIS DRAWING, UTILISE ONLY NUMBERED DIMENSIONS.
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DRAWING STATUS

AS BUILT STATUS

GENERAL NOTES

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2. ALL DIMENSIONS ARE SHOWN FOR DESIGN AND TENDER PURPOSES ONLY. ACTUAL SURVEY OR ARCHITECTS DIMENSIONS SHOULD BE USED IN ALL CASES. BUILDER/CONTRACTOR TO SATISFY THEMSELVES THAT DIMENSIONS ARE CORRECT PRIOR TO MATERIAL ORDER.
3. REFER ARCHITECTS DRAWINGS FOR CONSTRUCTION AND FINISH REQUIREMENTS.
4. NOTIFY JAMESON CE LTD IMMEDIATELY IF ANY DISCREPANCY ARISES.

CONCRETE NOTES

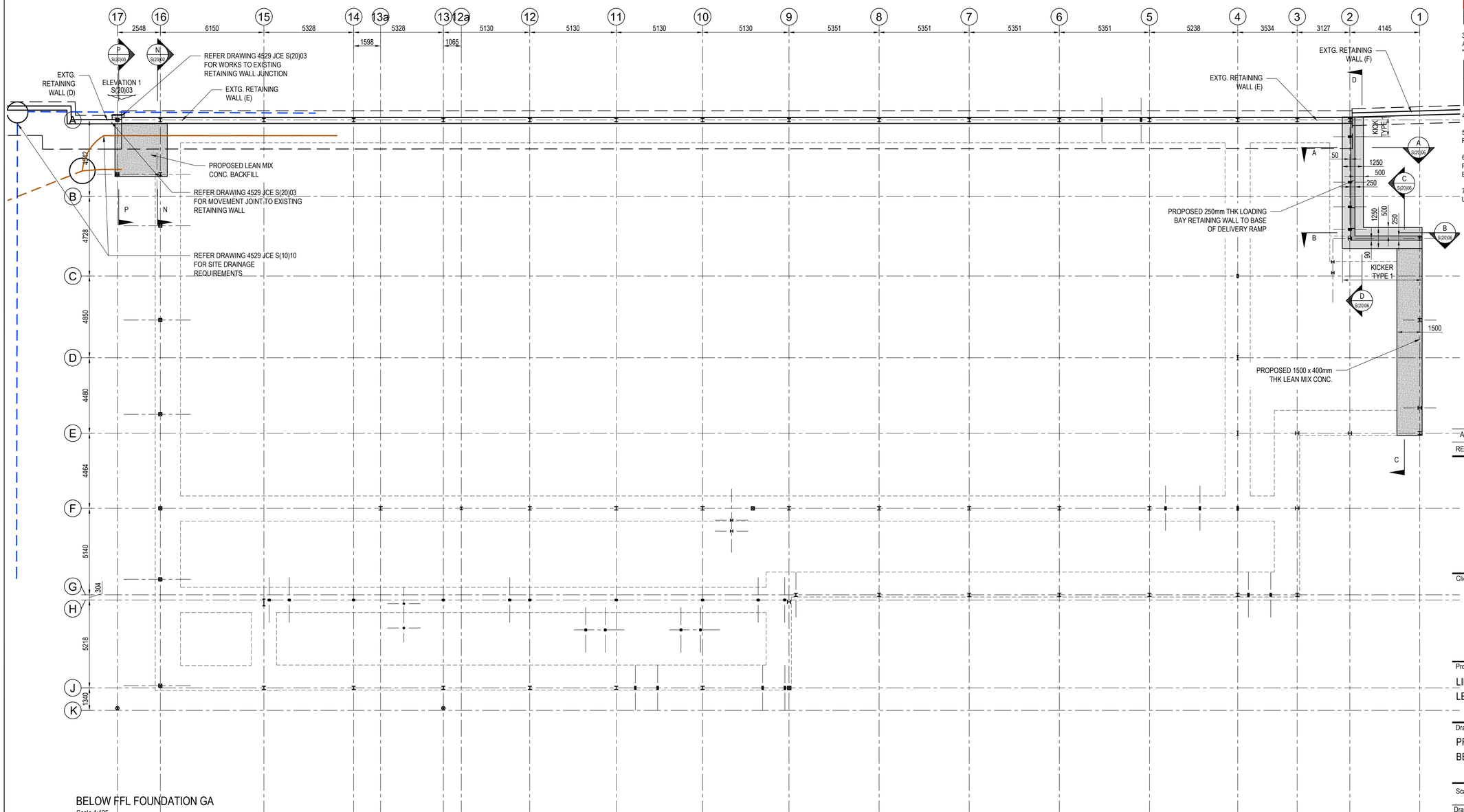
1. ALL CONCRETE WORK IS TO BE IN ACCORDANCE WITH JCE-LTD NBS-SECTION E
2. RELEVANT CONCRETE MIX DESIGN :-

CONCRETE ELEMENT	DESIGN CHEMICAL CLASS	SPEC. CLAUSE No.
SLAB	DC-1	130 D
RETAINING WALLS	DC-1	130 O
FOUNDATIONS	DC-1	130 C

3. SURFACE FINISH TO CONCRETE TO BE IN ACCORDANCE WITH SECTION 600. ALL FACES TO BE "AS CAST" UNLESS SPECIFIED BELOW :-

CONCRETE ELEMENT	SURFACE FINISH			
	TOP	BOTTOM	SIDE	END
-	-	-	-	-

4. ALL SERVICE ACCESSES TO BE RAISED TO NEW LEVEL.
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BELOW FFL FOUNDATION GA
Scale 1:125

REV	DESCRIPTION	BY	CHK	APP	DATE
A	DRAWING STATUS REVISED TO AS BUILT	RL	CM	CM	02.09.26

JAMESON CONSULTING
Pure Offices, 4100 Park Approach, Thorpe Park, Leeds LS15 8GB
0113 8231 915 info@jamesonconsulting.co.uk

Client: LIDL

Project:
LIDL BIRSTALL
LEEDS

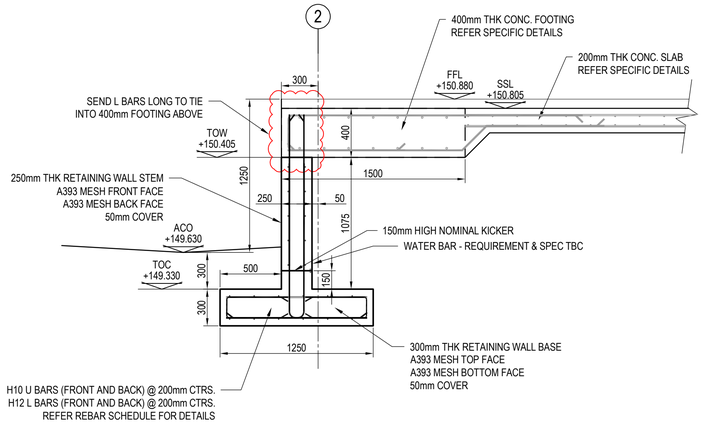
Drawing Title:
PROPOSED NEW STORE
BELOW FFL FOUNDATION GA

Scale A1	Drawn	Date	Checked	Date	Approved	Date
1:125 & 25	RL	FEB 26	EJ	FEB 26	CM	FEB 26

Drawing No. 4529 JCE S (20) 04
Revision A

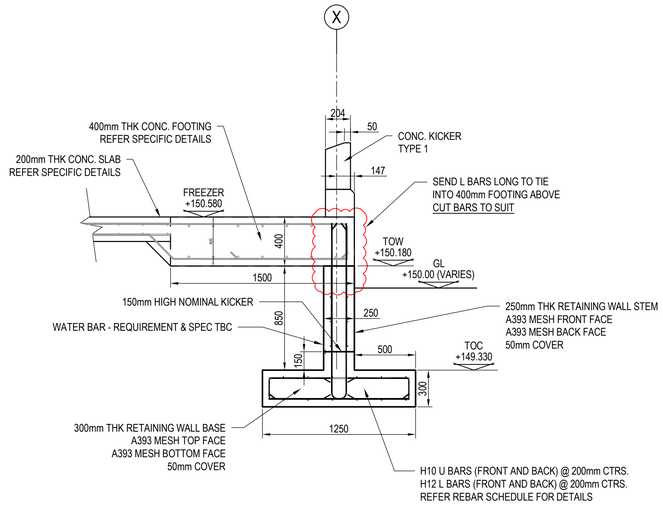
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SHEET SIZE : A1 LANDSCAPE

X:\DWG_CAMERON\CE LTD\JAMESON CONSULTING ENGINEERS\PROJECTS_JCE\BIRSTALL\DRAWINGS\ARCHIVE\4529 JCE S(20)04 - LIDL BIRSTALL DRAWING\4529 JCE S(20)04 - LIDL BIRSTALL DRAWING.DWG | PLOTTED BY: RICHARD LAWSON | PLOTTED DATE: 02 September 2026 14:51:21



SECTION A - A THROUGH LOADING BAY RETAINING WALL AT BASE OF RAMP

Scale 1:25



SECTION C - C THROUGH LOADING BAY RETAINING WALL & FREEZER RECESS

Scale 1:25

0m 0.5m 1m 1.5m 2m 3m 4m 5m

SCALE 1:50 - ENSURE PDF'S ARE PRINTED AT 1:1

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DRAWING STATUS

AS BUILT STATUS

GENERAL NOTES

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4. NOTIFY JAMESON CE LTD IMMEDIATELY IF ANY DISCREPANCY ARISES.

CONCRETE NOTES

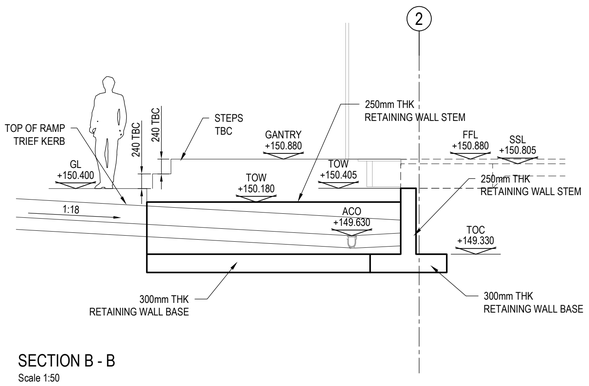
1. ALL CONCRETE WORK IS TO BE IN ACCORDANCE WITH JCE-LTD NBS-SECTION E
2. RELEVANT CONCRETE MIX DESIGN :-

CONCRETE ELEMENT	DESIGN CHEMICAL CLASS	SPEC. CLAUSE No.
SLAB	DC-1	130 D
RETAINING WALLS	DC-1	130 O
FOUNDATIONS	DC-1	130 C

3. SURFACE FINISH TO CONCRETE TO BE IN ACCORDANCE WITH SECTION 600. ALL FACES TO BE "AS CAST" UNLESS SPECIFIED BELOW :-

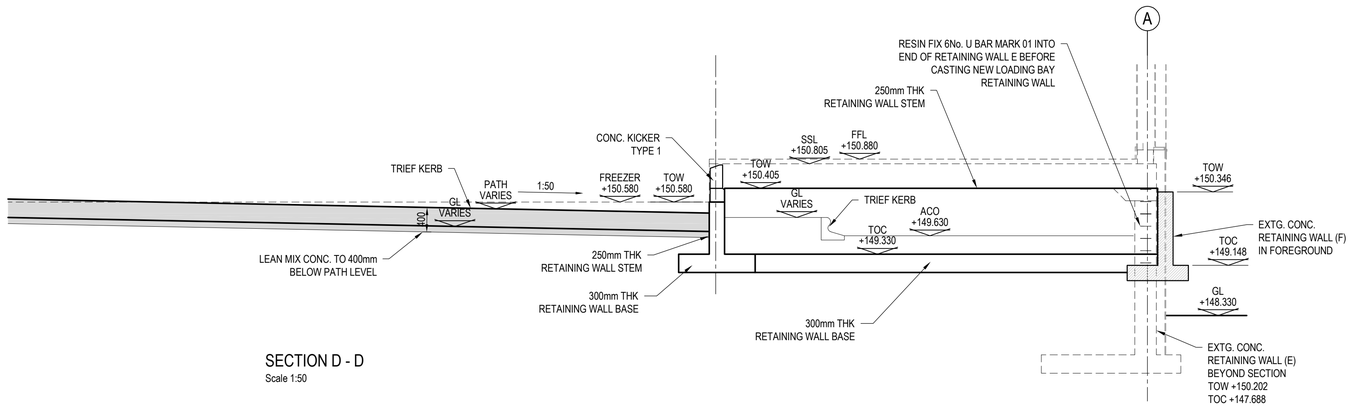
CONCRETE ELEMENT	SURFACE FINISH			
	TOP	BOTTOM	SIDE	END
-	-	-	-	-

4. ALL SERVICE ACCESSES TO BE RAISED TO NEW LEVEL.
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SECTION B - B

Scale 1:50



SECTION D - D

Scale 1:50

REV	DESCRIPTION	BY	CHK	APP	DATE
A	DRAWING STATUS REVISED TO AS BUILT	RL	CM	CM	02.09.26

JAMESON CONSULTING

Pure Offices, 4100 Park Approach, Thorpe Park, Leeds LS15 8GB
0113 8231 915 info@jamesonconsulting.co.uk

Client:

Project:
LIDL BIRSTALL
LEEDS

Drawing Title:
PROPOSED NEW STORE
LOADING BAY RETAINING WALL
SECTIONS

Scale A1	Drawn	Date	Checked	Date	Approved	Date
1:50 & 25	RL	MAR 26	EJ	MAR 26	CM	MAR 26

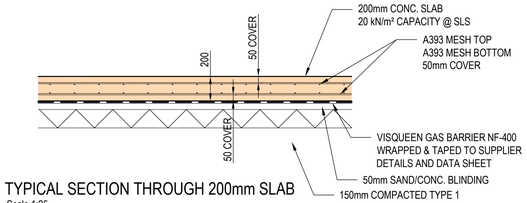
Drawing No.
4529 JCE S (20) 06

Revision
A

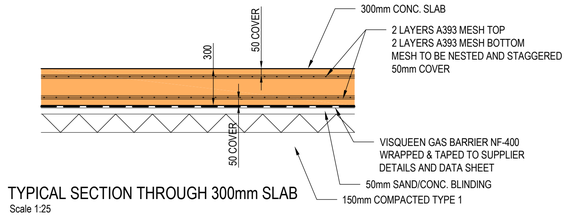
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SHEET SIZE : A1 LANDSCAPE

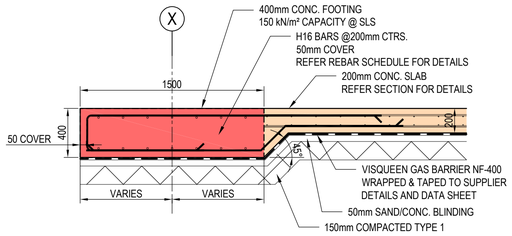
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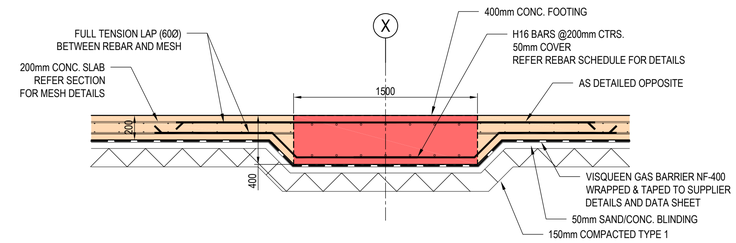
TYPICAL SECTION THROUGH 200mm SLAB
Scale 1:25



TYPICAL SECTION THROUGH 300mm SLAB
Scale 1:25

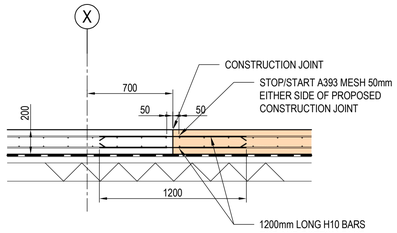


TYPICAL SECTION THROUGH CONC. FOOTING (400mm)
Scale 1:25

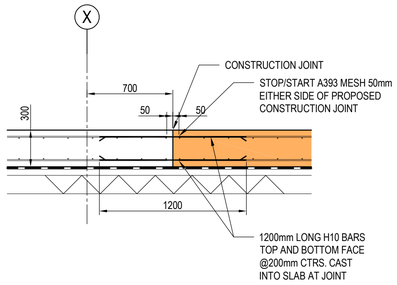


TYPICAL SECTION THROUGH CONC. FOOTING TO 200mm SLAB (BOTH SIDES)
Scale 1:25

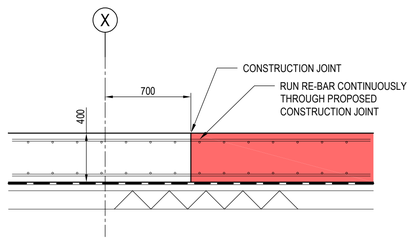
CONSTRUCTION JOINT DETAILS



CONSTRUCTION JOINT THROUGH 200mm SLAB
Scale 1:25



CONSTRUCTION JOINT THROUGH 300mm SLAB
Scale 1:25



CONSTRUCTION JOINT THROUGH CONC. FOOTING (400mm)
Scale 1:25



SCALE 1:50 - ENSURE PDF'S ARE PRINTED AT 1:1

CDM 2015 RISK NOTES

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DRAWING STATUS

AS BUILT STATUS

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CONCRETE NOTES

1. ALL CONCRETE WORK IS TO BE IN ACCORDANCE WITH JCE-LTD NBS-SECTION E
2. RELEVANT CONCRETE MIX DESIGN :-

CONCRETE ELEMENT	DESIGN CHEMICAL CLASS	SPEC. CLAUSE No.
SLAB	DC-1	130 O
RETAINING WALLS	DC-1	130 O
FOUNDATIONS	DC-1	130 C

3. SURFACE FINISH TO CONCRETE TO BE IN ACCORDANCE WITH SECTION 600. ALL FACES TO BE "AS CAST" UNLESS SPECIFIED BELOW :-

CONCRETE ELEMENT	SURFACE FINISH			
	TOP	BOTTOM	SIDE	END
SLAB	FLOATED	---	SHUTTER	SHUTTER

4. ALL SERVICE ACCESSES TO BE RAISED TO NEW LEVEL.
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7. FORMED JOINTS AS PROPOSED ON PLAN TO BE FOLLOWED UNLESS PRIOR AGREEMENT SOUGHT FROM JCE LTD.

DRAWING KEY - PRINT IN COLOUR
- 400mm THK CONC. FOOTING
- 300mm THK CONC. SLAB
- 200mm THK CONC. SLAB
- RECESSED 200mm THK CONC. SLAB

REV	DESCRIPTION	BY	CHK	APP	DATE
A	DRAWING STATUS REVISED TO AS BUILT	RL	CM	CM	02.09.26

JAMESON CONSULTING
Pure Offices, 4100 Park Approach, Thorpe Park, Leeds LS15 8GB
0113 8231 915 info@jamesonconsulting.co.uk

Client:

Project:
LIDL BIRSTALL
LEEDS

Drawing Title:
PROPOSED NEW STORE
FOUNDATION SECTIONS 03

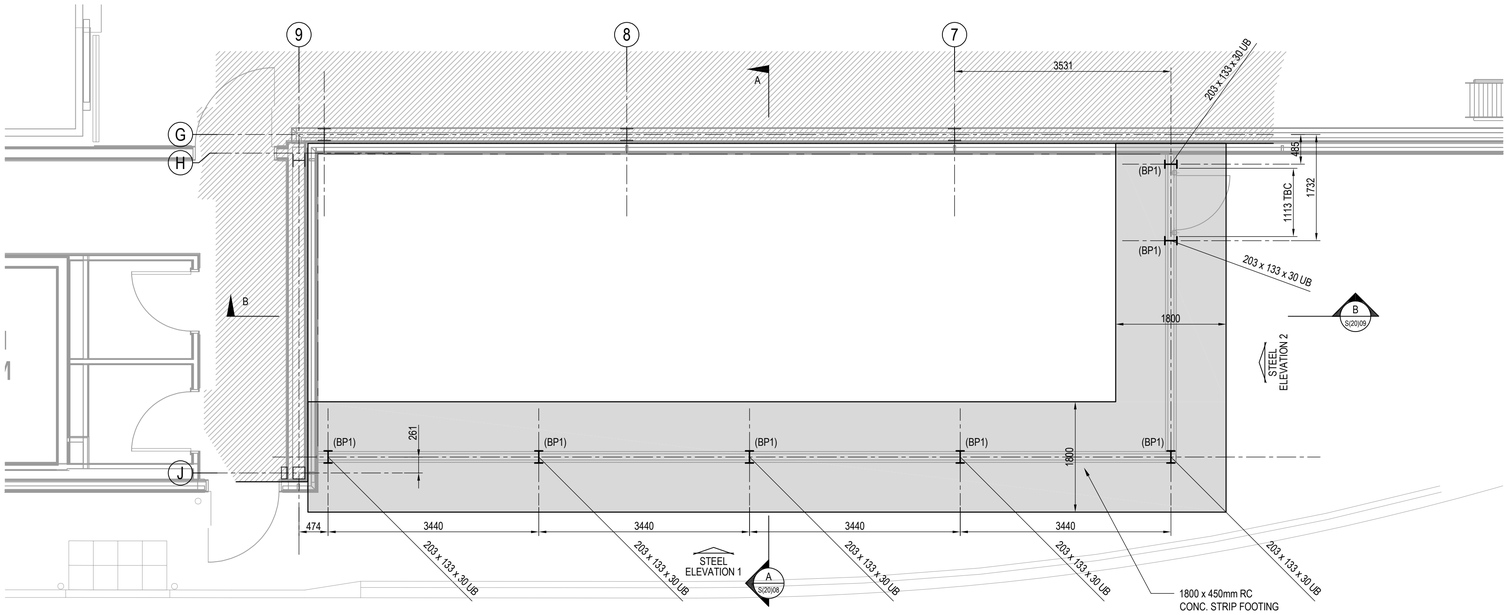
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A1 1:25	RL	MAR 26	CM	MAR 26	CM	MAR 26

Drawing No.
4529 JCE S (20) 07

Revision
A

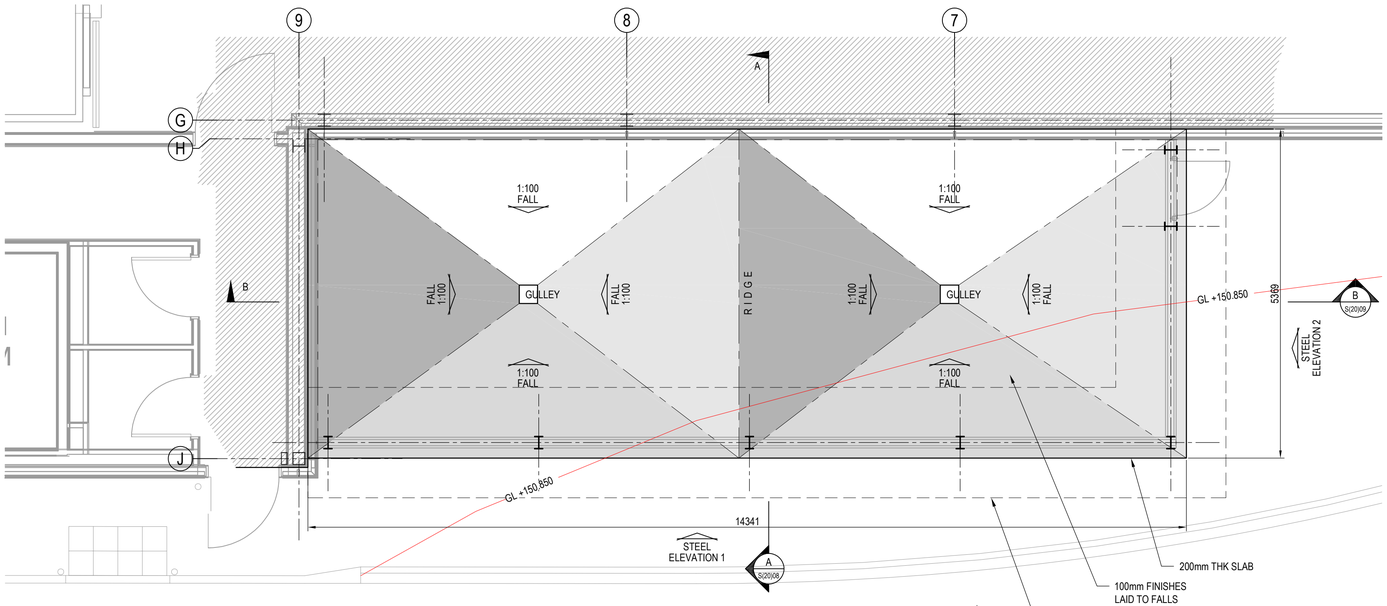
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SHEET SIZE : A1 LANDSCAPE

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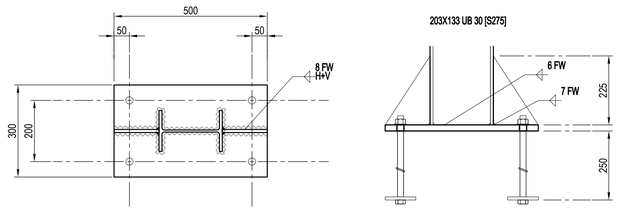
FOUNDATION & COLUMN GA

Scale 1:50



SLAB GA

Scale 1:50

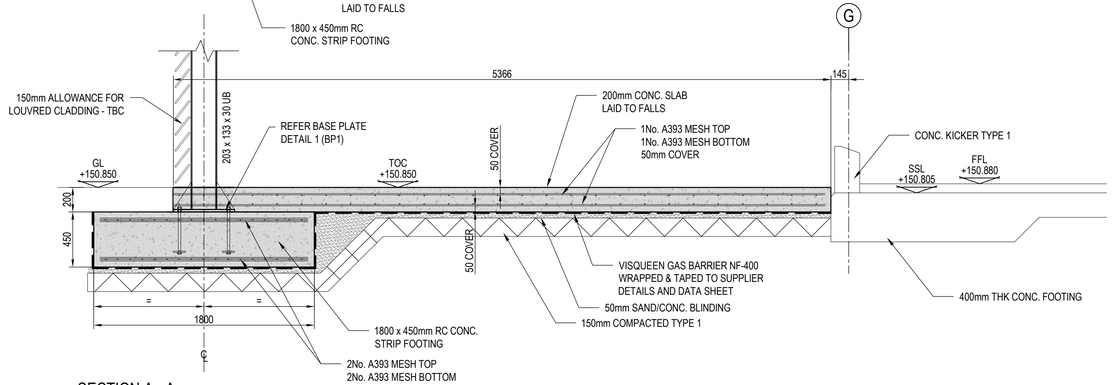


BASE-PLATE 500 X 300 X 20 MM (24 KG)
WITH 4 NO. 24 MM HOLES
FOR 20 MM GRADE 8.8 BOLTS.

NO VOID: BOLTS FULLY EMBEDDED IN BASE
WASHERS 100 X 100 X 10 MM THICK
ALL PLATES S 275
10 MM STIFFENERS.
REINFORCEMENT 10 @ 100 MM CC EACH WAY. COVER 40 MM

BASE PLATE DETAIL 1 (BP1)

Scale 1:10



SECTION A - A

Scale 1:25

0m 0.5m 1m 1.5m 2m 3m 4m 5m

SCALE 1:50 - ENSURE PDF'S ARE PRINTED AT 1:1

CDM 2015 RISK NOTES

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AS BUILT STATUS

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CONCRETE ELEMENT	DESIGN CHEMICAL CLASS	SPEC. CLAUSE No.
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RETAINING WALLS	DC-1	130 O
FOUNDATIONS	DC-1	130 C

3. SURFACE FINISH TO CONCRETE TO BE IN ACCORDANCE WITH SECTION 600. ALL FACES TO BE "AS CAST" UNLESS SPECIFIED BELOW :-

CONCRETE ELEMENT	SURFACE FINISH			
	TOP	BOTTOM	SIDE	END
SLAB	FLOATED	---	SHUTTER	SHUTTER

4. ALL SERVICE ACCESSES TO BE RAISED TO NEW LEVEL.

5. ALL SURFACE MOUNTED KIT TO BE REMOVED, STORED AND REFITTED.

6. REFER JCE SPECIFICATION FOR CONCRETE CURING PROVISION. CARE TO BE TAKEN TO CURE TOPPING TO PREVENT EARLY SHRINKAGE CRACKS.

7. FORMED JOINTS AS PROPOSED ON PLAN TO BE FOLLOWED UNLESS PRIOR AGREEMENT SOUGHT FROM JCE LTD.

REV	DESCRIPTION	BY	CHK	APP	DATE
A	DRAWING STATUS REVISED TO AS BUILT	RL	CM	CM	02.09.26

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0113 8231 915 info@jamesonconsulting.co.uk

Client:

Project:
LIDL BIRSTALL
LEEDS

Drawing Title:
PROPOSED NEW STORE
EXTERNAL PLANT COMPOUND
FOUNDATION, SLAB AND COLUMN GA

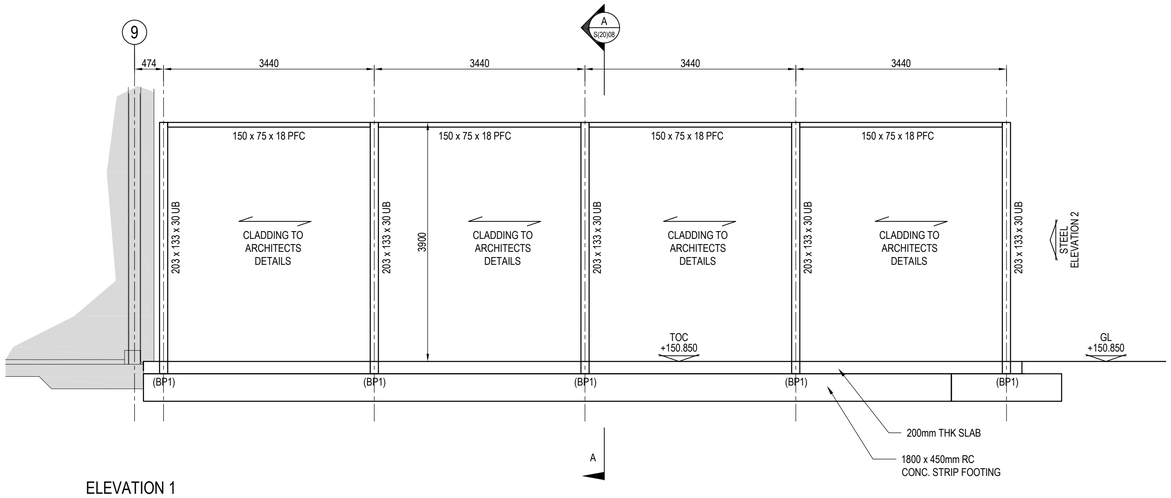
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Drawing No.
4529 JCE S (20) 08

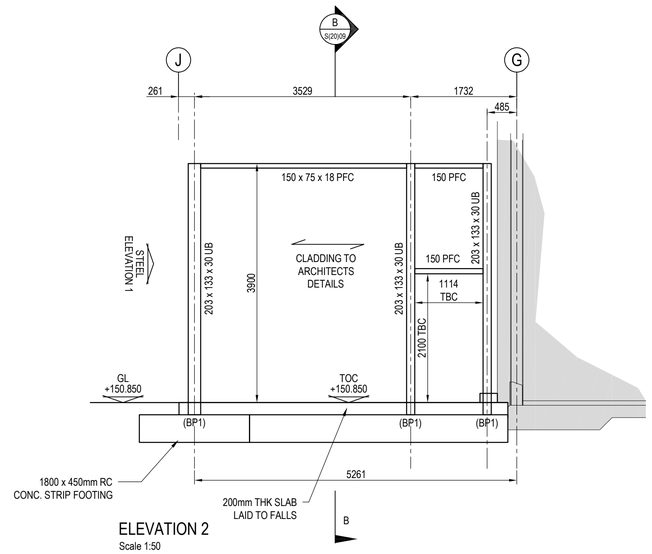
Revision
A

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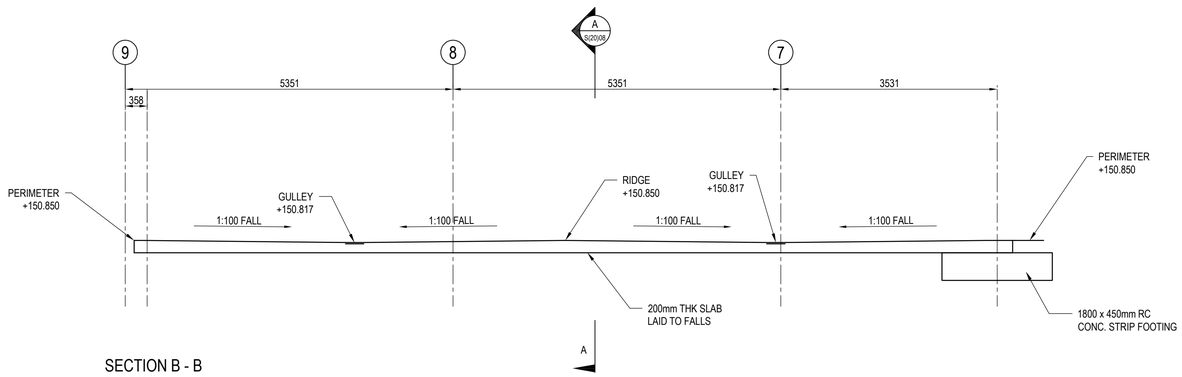
SHEET SIZE : A1 LANDSCAPE



ELEVATION 1
Scale 1:50



ELEVATION 2
Scale 1:50



SECTION B - B
Scale 1:50

0m 0.5m 1m 1.5m 2m 3m 4m 5m
SCALE 1:50 - ENSURE PDF'S ARE PRINTED AT 1:1

CDM 2015 RISK NOTES

THE PROJECT HAS BEEN ASSESSED FOR SPECIFIC CONSTRUCTION RISK. THOSE RISKS THAT A COMPETENT CONTRACTOR SHOULD BE AWARE OF ARE NOT LISTED HERE. RISKS THAT ARE INHERENT IN THE DESIGN DECISIONS TAKEN THAT A CONTRACTOR NEEDS TO BE AWARE OF ARE HIGHLIGHTED BELOW AND REFERENCED IN LOCATION ON THE DRAWING PLANS BY THE NOTED SYMBOL.

① NO SPECIFIC ISSUES TO HIGHLIGHT. CONTRACTOR TO REVIEW SEQUENCE OF WORKS AND DISCUSS WITH THE ENGINEER.

SITE & DRAWN MEASUREMENTS

1) DRAWN DIMENSIONS ARE BASED ON ARCHITECTS DRAWINGS OR INTERPOLATED FROM ELECTRONIC FILES. THE CONTRACTOR SHOULD TAKE SITE MEASUREMENTS AS REQUIRED TO ENSURE THE SET-OUT OF THE BUILDING IS CORRECT AND STRUCTURAL ITEMS ARE PLACED IN THE CORRECT POSITION, ARE THE CORRECT LENGTH AND PROPORTIONS.

2) IF IN DOUBT ASK.

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NOTES:
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DRAWING STATUS
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4. NOTIFY JAMESON CE LTD IMMEDIATELY IF ANY DISCREPANCY ARISES.

CONCRETE NOTES

1. ALL CONCRETE WORK IS TO BE IN ACCORDANCE WITH JCE-LTD NBS-SECTION E
2. RELEVANT CONCRETE MIX DESIGN :-

CONCRETE ELEMENT	DESIGN CHEMICAL CLASS	SPEC. CLAUSE No.
SLAB	DC-1	130 O
RETAINING WALLS	DC-1	130 O
FOUNDATIONS	DC-1	130 C

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	TOP	BOTTOM	SIDE	END
SLAB	FLOATED	---	SHUTTER	SHUTTER

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REV	DESCRIPTION	BY	CHK	APP	DATE
A	DRAWING STATUS REVISED TO AS BUILT	RL	CM	CM	02.09.26

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Client:

Project:
LIDL BIRSTALL
LEEDS

Drawing Title:
PROPOSED NEW STORE
EXTERNAL PLANT COMPOUND
ELEVATIONS & SECTIONS

Scale	Drawn	Date	Checked	Date	Approved	Date
A1 1:50	RL	MAR 26	CM	MAR 26	CM	MAR 26

Drawing No. 4529 JCE S (20) 09
Revision A

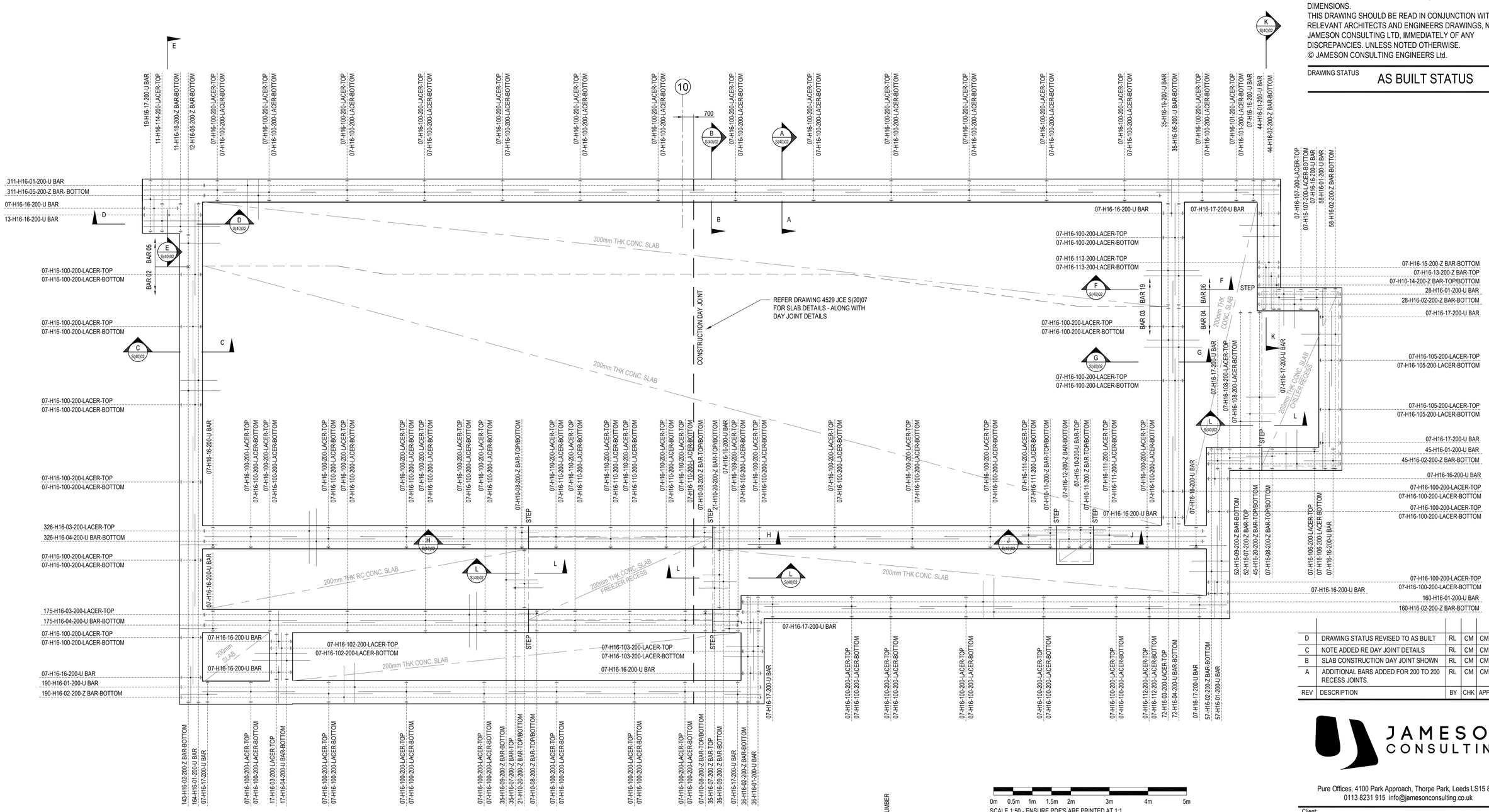
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SHEET SIZE : A1 LANDSCAPE

S:\DWG - CLIENTS\JCE-LTD\LIDL\DWG\PROJECTS\4529\DRAWINGS\4529 JCE S (20) 09 BIRTSALL\DRAWING\4529 JCE S (20) 09 Birtsall.DWG | PLOTTED BY: RICHARD.MOSS | PLOTTED DATE: 02 September 2026 14:53:03

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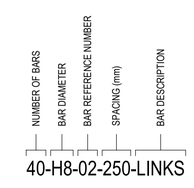
DRAWING STATUS

AS BUILT STATUS



REFER DRAWING 4529 JCE S(40)03 FOR SCHEDULE

FOUNDATION REBAR GA
Scale 1:125



SCHEDULING KEY
NTS

GENERAL NOTES

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0m 0.5m 1m 1.5m 2m 3m 4m 5m

SCALE 1:50 - ENSURE PDF'S ARE PRINTED AT 1:1

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REV	DESCRIPTION	BY	CHK	APP	DATE
D	DRAWING STATUS REVISED TO AS BUILT	RL	CM	CM	02.09.26
C	NOTE ADDED RE DAY JOINT DETAILS	RL	CM	CM	19.03.26
B	SLAB CONSTRUCTION DAY JOINT SHOWN	RL	CM	CM	12.03.26
A	ADDITIONAL BARS ADDED FOR 200 TO 200 RECESS JOINTS.	RL	CM	CM	11.03.26

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0113 8231 915 info@jamesonconsulting.co.uk

Client:

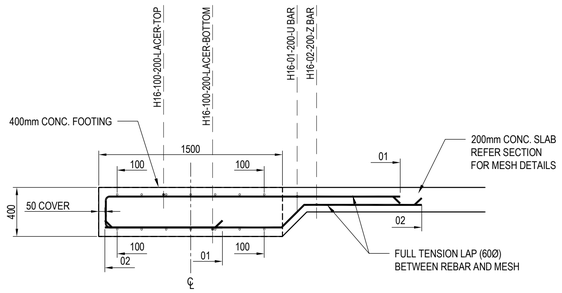
Project:
LIDL BIRSTALL
LEEDS

Drawing Title:
PROPOSED NEW STORE
FOUNDATION REBAR
DRAWING 1 OF 3

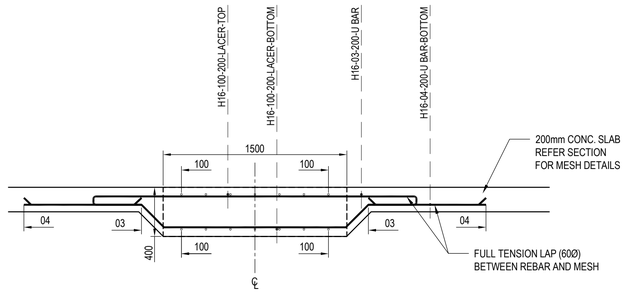
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A1 1:125	RL	FEB 26	EJ	FEB 26	CM	FEB 26

Drawing No. 4529 JCE S (40) 01
Revision D

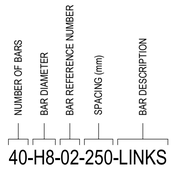
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SHEET SIZE : A1 LANDSCAPE



SECTION C - C THROUGH 400mm FOOTING TO 200mm SLAB
Scale 1:25



SECTION G - G THROUGH 400mm FOOTING TO 200mm SLAB (BOTH SIDES)
Scale 1:25



SCHEDULING KEY
NTS



SCALE 1:50 - ENSURE PDF'S ARE PRINTED AT 1:1

CDM 2015 RISK NOTES

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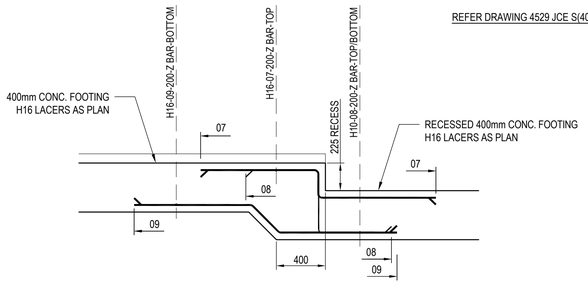
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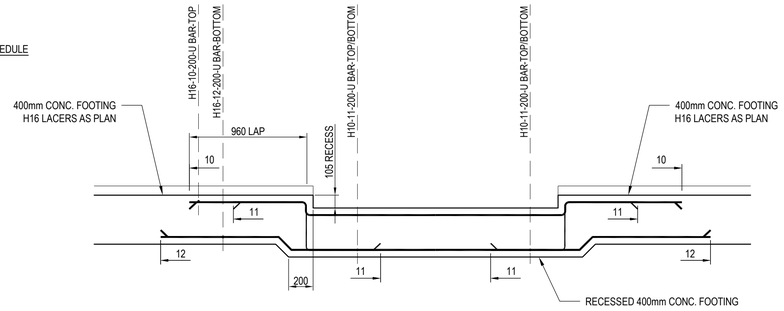
DRAWING STATUS
AS BUILT STATUS

GENERAL NOTES

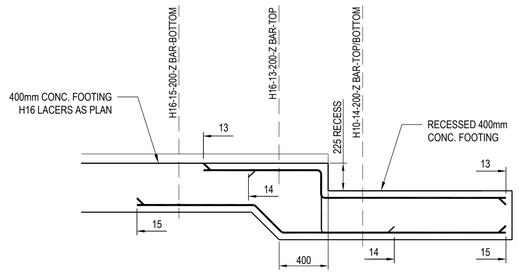
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SECTION H - H THROUGH 400mm FOOTING TO RECESSED 400mm FOOTING (CHILLER & FREEZER)
Scale 1:25

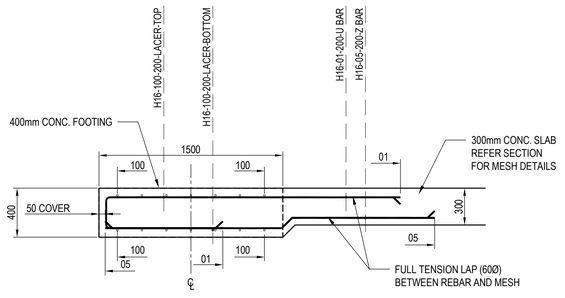


SECTION J - J THROUGH 400mm FOOTING TO RECESSED 400mm FOOTING (SLUICE)
Scale 1:25

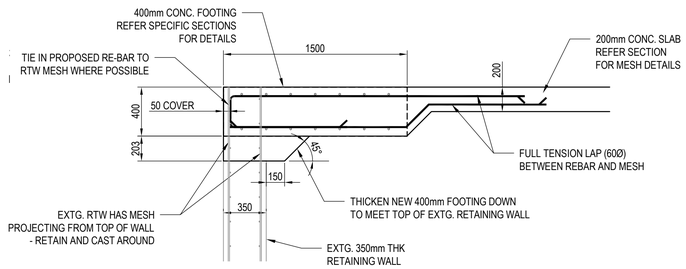


SECTION K -K THROUGH 400mm FOOTING TO RECESSED 400mm FOOTING (CHILLER & FREEZER)
Scale 1:25

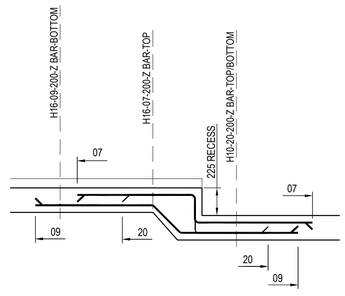
REFER DRAWING 4529 JCE S(40)03 FOR SCHEDULE



SECTION B - B THROUGH 400mm FOOTING TO 300mm SLAB
Scale 1:25

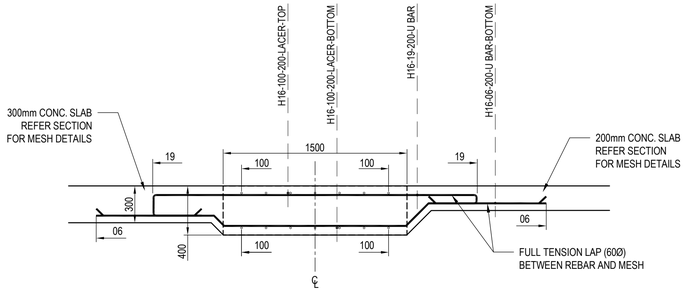


SECTION A - A THROUGH JUNCTION OF 400mm FOOTING & EXTG. RETAINING WALL
Scale 1:25

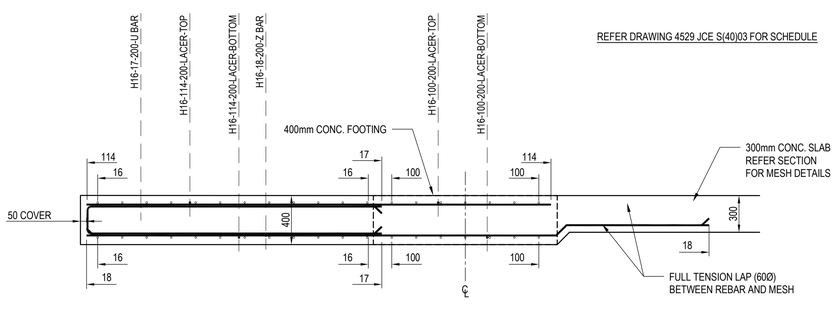


SECTION L - L THROUGH 200mm SLAB TO RECESSED 200mm SLAB
Scale 1:25

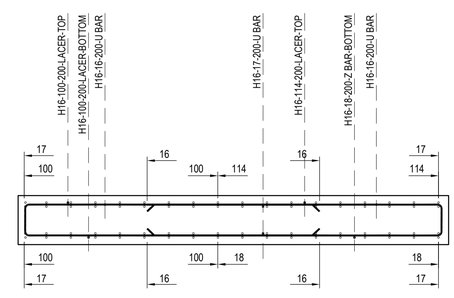
REV	DESCRIPTION	BY	CHK	APP	DATE
B	DRAWING STATUS REVISED TO AS BUILT	RL	CM	CM	02.09.26
A	SECTION L - L ADDED.	RL	CM	CM	11.03.26



SECTION F - F THROUGH 400mm FOOTING TO 300/200mm SLABS
Scale 1:25



SECTION D - D THROUGH 400mm FOOTING TO 300mm SLAB - WC
Scale 1:25



SECTION E - E THROUGH 400mm FOOTING - WC
Scale 1:25

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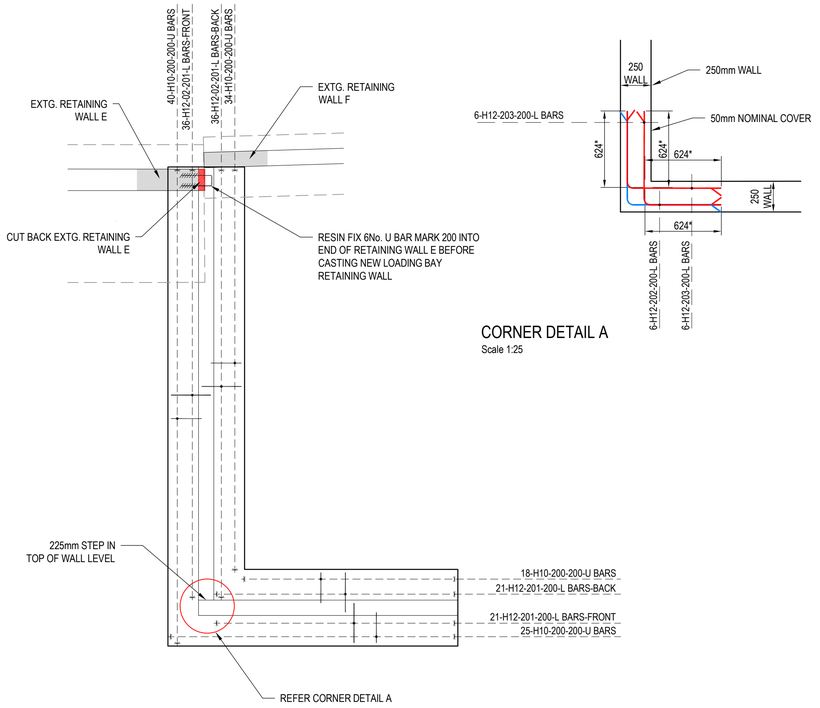
Drawing Title:
PROPOSED NEW STORE
FOUNDATION REBAR
DRAWING 2 OF 3

Scale	Drawn	Date	Checked	Date	Approved	Date
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Drawing No. 4529 JCE S (40) 02
Revision B

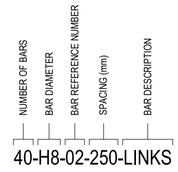
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D:\WORK\JAMESON CE\TEAMWORK\ENGINEERING\PROJECTS\DOCUMENTS\4529 JCE\4529 LIDL BIRSTALL\DRAWINGS\4529 JCE S(40)02.DWG | PLOTTED BY: RICHARD.LAWSON | PLOTTED ON: 12 March 2026 10:53:36



CORNER DETAIL A
Scale 1:25

PLAN ON LOADING BAY RETAINING WALL BASE
Scale 1:50



SCHEDULING KEY
NTS



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JAMESON CONSULTING
REBAR Schedule ref: S (40) 01 01 Rev: A
Site ref: LIDL BIRSTALL, LEEDS
Location: FOUNDATION - BENT BARS
Job No: 4529
Date prepared: FEB 2026 Date revised: 11.03.26
Prepared By: RL Checked by: CM

Member	Bar mark	Type & size	No of mbrs	No of bars in each	Total no	Length of each bar ↑ mm	Shape code	A mm *	B mm *	C mm *	D mm *	E/R mm *	
	01	H16	-	-	1093	3575	21	2410	268	960			-
	02	H16	-	-	1072	2675	26	1446	268	960	200		-
	03	H16	-	-	590	3500	41	400	84	2652	84	400	-
	04	H16	-	-	590	3950	46	960	268	1492	200	960	-
	05	H16	-	-	12	2750	26	1446	127	1167	100		-
	06	H16	-	-	35	3675	46	960	127	1492	100/200	960	-
	07	H16	-	-	122	2100	23	960	241	960			A
	08	H10	-	-	35	1425	23	600	241	600			-
	09	H16	-	-	122	2250	26	960	324	960	241		A
	10	H16	-	-	7	4175	44	960	121	2132	121	960	-
	11	H10	-	-	14	1575	23	600	405	600			-
	12	H16	-	-	7	4600	46	960	156	2352	121	960	-
	13	H16	-	-	7	2675	23	960	241	1516			-
	14	H10	-	-	7	1425	23	600	241	600			-
	15	H16	-	-	7	3125	26	960	326	1825	241		-
	16	H16	-	-	125	5025	21	2410	268	2410			-
	17	H16	-	-	89	5000	21	2410	236	2410			-
	18	H16	-	-	11	5150	26	3837	127	1167	100		-
	19	H16	-	-	35	3600	41	400	84	2652	184	400	-
	20	H10	-	-	87	1500	23	600	325	600			A

This schedule complies with the requirements of BS 8666:2005 * Specified in multiples of 5mm + Specified in multiples of 25mm

JAMESON CONSULTING
REBAR Schedule ref: S (40) 02 01 Rev: -
Site ref: LIDL BIRSTALL, LEEDS
Location: FOUNDATIONS - STRAIGHT BARS
Job No: 4529
Date prepared: FEB 2026 Date revised: -
Prepared By: RL Checked by: CM

Member	Bar mark	Type & size	No of mbrs	No of bars in each	Total no	Length of each bar ↑ mm	Shape code	A mm *	B mm *	C mm *	D mm *	E/R mm *	
BARS ON SITE	100	H16	-	-	240	6000	01	6000					-
BARS REQ'D	100	H16	-	-	558	6000	01	6000					-
	101	H16	-	-	14	2975	00	2970					-
	102	H16	-	-	14	3125	00	3113					-
	103	H16	-	-	14	4025	00	4022					-
	104	H16	-	-	0	4550	00	4532					-
	105	H16	-	-	28	4900	00	4900					-
	106	H16	-	-	14	3645	00	3642					-
	107	H16	-	-	14	2500	00	2482					-
	108	H16	-	-	14	2050	00	2030					-
	109	H16	-	-	14	1800	00	1792					-
	110	H16	-	-	84	4600	00	4584					-
	111	H16	-	-	28	2200	00	2187					-
	112	H16	-	-	14	4000	00	3985					-
	113	H16	-	-	14	5500	00	5495					-
	114	H16	-	-	14	3800	00	3791					-

This schedule complies with the requirements of BS 8666:2005 * Specified in multiples of 5mm + Specified in multiples of 25mm

JAMESON CONSULTING
REBAR Schedule ref: S (40) 03 01 Rev: -
Site ref: LIDL BIRSTALL, LEEDS
Location: LOADING BAY RETAINING WALL
Job No: 4529
Date prepared: MAR 2026 Date revised: -
Prepared By: RL Checked by: CM

Member	Bar mark	Type & size	No of mbrs	No of bars in each	Total no	Length of each bar ↑ mm	Shape code	A mm *	B mm *	C mm *	D mm *	E/R mm *	
	200	H10	-	-	123	1150	21	500	180	500			-
	201	H12	-	-	114	2300	11	1667	640				-
	202	H12	-	-	6	1525	11	772	772				-
	203	H12	-	-	12	1400	11	636	772				-

This schedule complies with the requirements of BS 8666:2005 * Specified in multiples of 5mm + Specified in multiples of 25mm

REV	DESCRIPTION	BY	CHK	APP	DATE
B	DRAWING STATUS REVISED TO AS BUILT	RL	CM	CM	02.09.26
A	ADDITIONAL BARS ADDED FOR 200 TO 200 RECESS JOINTS.	RL	CM	CM	11.03.26

JAMESON CONSULTING
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0113 8231 915 info@jamesonconsulting.co.uk

Client: LIDL

Project:
LIDL BIRSTALL
LEEDS

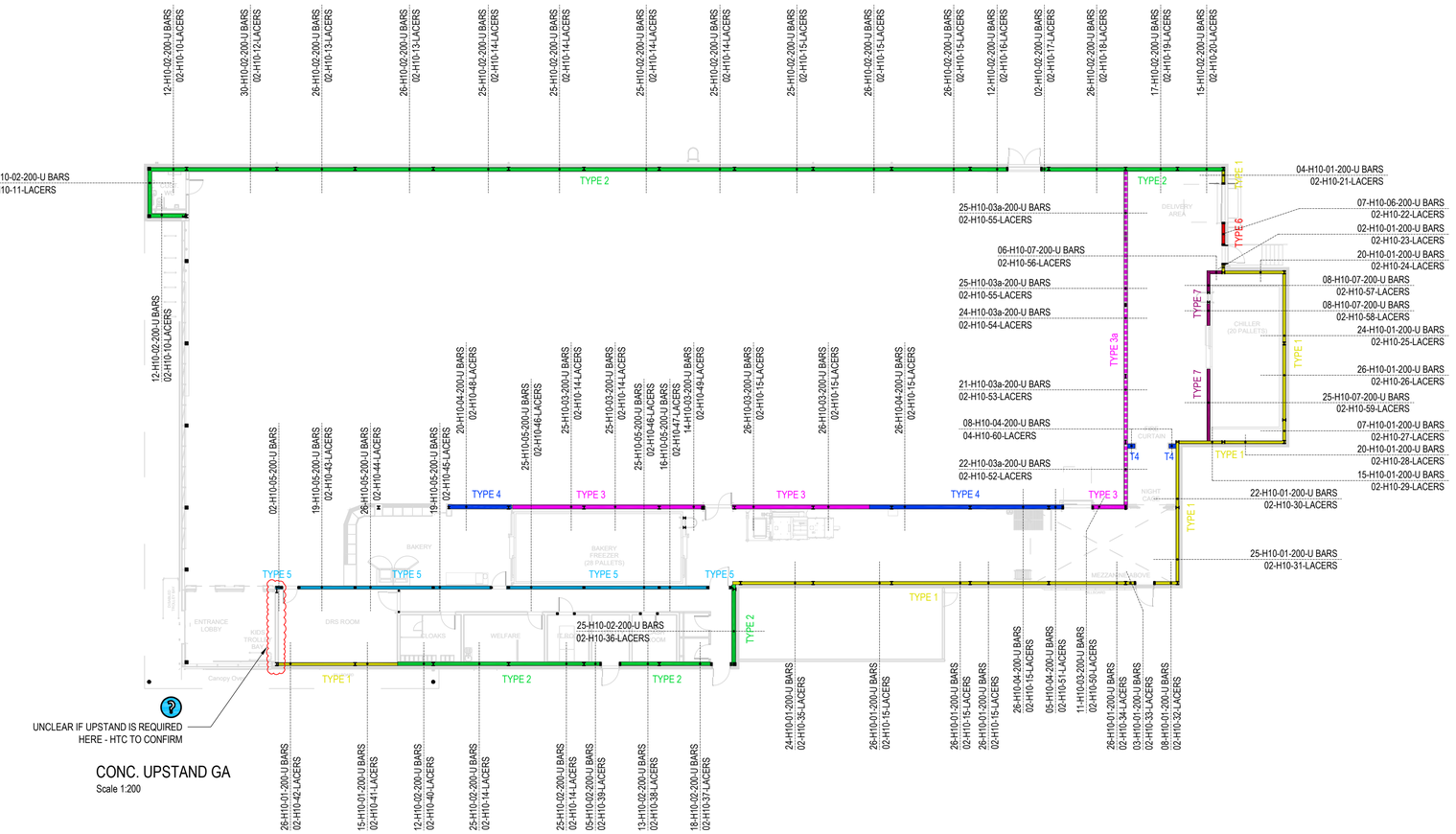
Drawing Title:
PROPOSED NEW STORE
FOUNDATION REBAR
DRAWING 3 OF 3

Scale	Drawn	Date	Checked	Date	Approved	Date
A1 1:50 & 1:25	RL	MAR 26	EJ	MAR 26	CM	MAR 26

Drawing No.: 4529 JCE S (40) 03
Revision: B

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SHEET SIZE : A1 LANDSCAPE

D:\DRIVE - JAMESON CE\1 DRAWINGS\1 IN PROGRESS\1 DRAWINGS\4529 - LIDL BIRSTALL\DRAWINGS\4529 JCE S (40) 03.DWG | PLOTTED BY: RICHARD LARSEN | PLOTTED DATE: 05 September 2026 10:41:18



CONC. UPSTAND GA
Scale 1:200

0m 0.5m 1m 1.5m 2m 3m 4m 5m
SCALE 1:50 - ENSURE PDF'S ARE PRINTED AT 1:1

CDM 2015 RISK NOTES

THE PROJECT HAS BEEN ASSESSED FOR SPECIFIC CONSTRUCTION RISK. THOSE RISKS THAT A COMPETENT CONTRACTOR SHOULD BE AWARE OF ARE NOT LISTED HERE. RISKS THAT ARE INHERENT IN THE DESIGN DECISIONS TAKEN THAT A CONTRACTOR NEEDS TO BE AWARE OF ARE HIGHLIGHTED BELOW AND REFERENCED IN LOCATION ON THE DRAWING PLANS BY THE NOTED SYMBOL.

⚠1 NO SPECIFIC ISSUES TO HIGHLIGHT. CONTRACTOR TO REVIEW SEQUENCE OF WORKS AND DISCUSS WITH THE ENGINEER.

SITE & DRAWN MEASUREMENTS

1) DRAWN DIMENSIONS ARE BASED ON ARCHITECTS DRAWINGS OR INTERPOLATED FROM ELECTRONIC FILES. THE CONTRACTOR SHOULD TAKE SITE MEASUREMENTS AS REQUIRED TO ENSURE THE SET-OUT OF THE BUILDING IS CORRECT AND STRUCTURAL ITEMS ARE PLACED IN THE CORRECT POSITION, ARE THE CORRECT LENGTH AND PROPORTIONS.

2) IF IN DOUBT ASK.

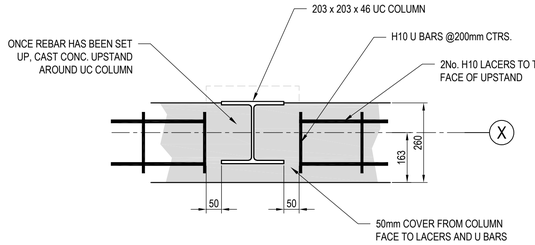
3) SITE MEASUREMENTS ARE TO BE TAKEN BY THE CONTRACTOR PRIOR TO MATERIAL ORDER. ANY DISCREPANCIES ARE TO BE REPORTED TO THE DESIGNER FOR REVIEW.

NOTES:
DO NOT SCALE FROM THIS DRAWING, UTILISE ONLY NUMBERED DIMENSIONS.
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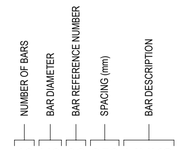
DRAWING STATUS
AS BUILT STATUS

GENERAL NOTES

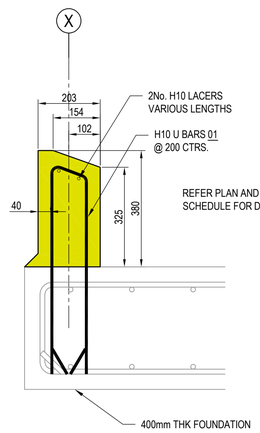
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3. REFER ARCHITECTS DRAWINGS FOR CONSTRUCTION AND FINISH REQUIREMENTS.
4. NOTIFY JAMESON CE LTD IMMEDIATELY IF ANY DISCREPANCY ARISES.



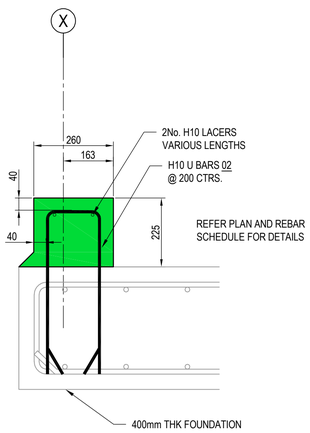
PLAN ON TYPICAL CONCRETE KICKER (TYPE 2 SHOWN)
Scale 1:10



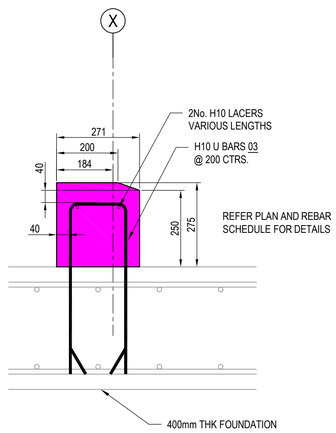
SCHEDULING KEY
NTS



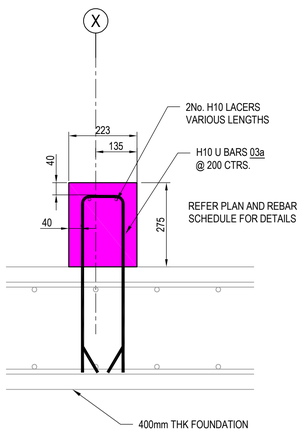
CONCRETE KICKER TYPE 1
Scale 1:10



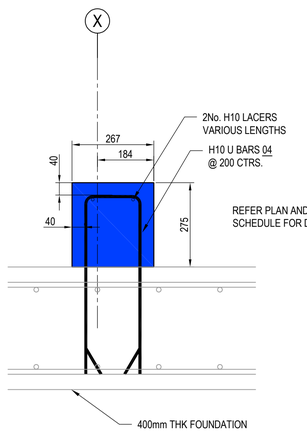
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Scale 1:10



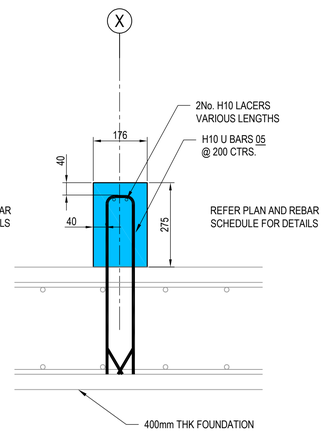
CONCRETE KICKER TYPE 3
Scale 1:10



CONCRETE KICKER TYPE 3a
Scale 1:10



CONCRETE KICKER TYPE 4
Scale 1:10



CONCRETE KICKER TYPE 5
Scale 1:10

REV	DESCRIPTION	BY	CHK	APP	DATE
B	DRAWING STATUS REVISED TO AS BUILT	RL	CM	CM	02.09.26
A	FIRE CURTAIN UPSTAND ADDED.	RL	EJ	CM	12.03.25

JAMESON CONSULTING
Pure Offices, 4100 Park Approach, Thorpe Park, Leeds LS15 8GB
0113 8231 915 info@jamesonconsulting.co.uk

Client:

Project:
LIDL BIRSTALL
LEEDS

Drawing Title:
PROPOSED NEW STORE
CONC. UPSTAND REBAR SCHEDULE
DRAWING 1 OF 2

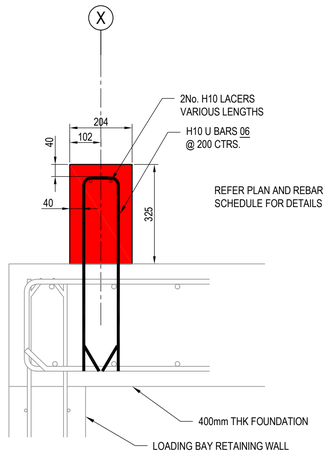
Scale	Drawn	Date	Checked	Date	Approved	Date
A1 1:200 & 1:10	RL	MAR 26	EJ	MAR 26	CM	MAR 26

Drawing No.
4529 JCE S (40) 04

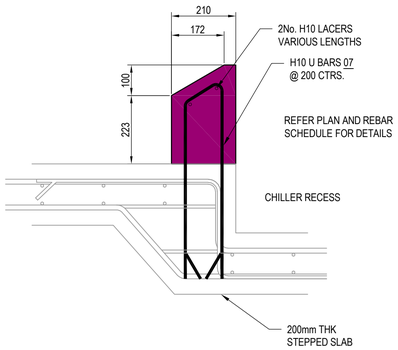
Revision
B

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SHEET SIZE : A1 LANDSCAPE

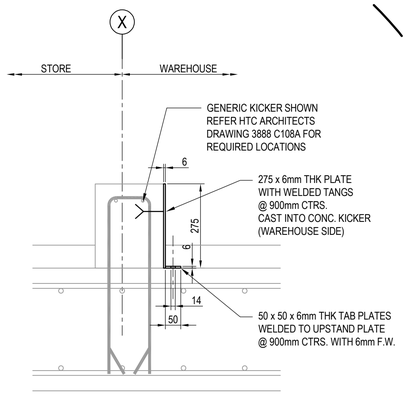
S:\LEEDS\...\DRAWINGS\01 DRAWINGS\04 - JOB JOURNAL\LIDL BIRSTALL\DRAWINGS\REVIT\CONCRETE\4529 JCE S (40) 04.rvt 18/03/26 10:43:44



CONCRETE KICKER TYPE 6
Scale 1:10



CONCRETE KICKER TYPE 7
Scale 1:10



TYPICAL WAREHOUSE KICKER STEEL PLATE DETAIL
Scale 1:10

0m 0.5m 1m 1.5m 2m 3m 4m 5m
SCALE 1:50 - ENSURE PDF'S ARE PRINTED AT 1:1

CDM 2015 RISK NOTES

THE PROJECT HAS BEEN ASSESSED FOR SPECIFIC CONSTRUCTION RISK. THOSE RISKS THAT A COMPETENT CONTRACTOR SHOULD BE AWARE OF ARE NOT LISTED HERE. RISKS THAT ARE INHERENT IN THE DESIGN DECISIONS TAKEN THAT A CONTRACTOR NEEDS TO BE AWARE OF ARE HIGHLIGHTED BELOW AND REFERENCED IN LOCATION ON THE DRAWING PLANS BY THE NOTED SYMBOL.

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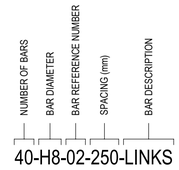
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DRAWING STATUS
AS BUILT STATUS

GENERAL NOTES

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3. REFER ARCHITECTS DRAWINGS FOR CONSTRUCTION AND FINISH REQUIREMENTS.
4. NOTIFY JAMESON CE LTD IMMEDIATELY IF ANY DISCREPANCY ARISES.



SCHEDULING KEY
NTS

LACER SCHEDULE
USE 6m LONG H12 STOCK ON SITE, AND CUT TO LENGTH - NO NEED TO ORDER NEW

JAMESON CONSULTING
Site ref: LIDL BIRSTALL LEEDS
Location: CONC. UPSTAND - BENT BARS
Job No: 4529
REBAR Schedule ref: S (40) 04 01 Rev. A
Date prepared: MAR 2026 Date revised: -
Prepared By: RL Checked by: CM

Member	Bar mark	Type & size	No of mbrs	No of bars in each	Total no	Length of each bar ↑ mm	Shape code	A mm *	B mm *	C mm *	D mm *	E/R mm *	
KICKER 1	01	H10	-	-	345	1425	29	680	125	645	123		-
KICKER 2	02	H10	-	-	494	1225	21	535	180	535			-
KICKER 3	03	H10	-	-	127	1275	21	560	191	560			-
KICKER 3a	03a	H10	-	-	117	1275	21	580	143	580			-
KICKER 4	04	H10	-	-	85	1325	21	585	187	585			A
KICKER 5	05	H10	-	-	132	1250	21	585	96	585			-
KICKER 6	06	H10	-	-	07	1375	21	635	123	635			-
KICKER 7	07	H10	-	-	47	1325	29	639	137	579	130		-

This schedule complies with the requirements of BS 8666:2005 * Specified in multiples of 5mm + Specified in multiples of 25mm

JAMESON CONSULTING
Site ref: LIDL BIRSTALL LEEDS
Location: CONC. UPSTANDS - LACERS
Job No: 4529
REBAR Schedule ref: S (40) 04 02 Rev. -
Date prepared: MAR 2026 Date revised: -
Prepared By: RL Checked by: CM

Member	Bar mark	Type & size	No of mbrs	No of bars in each	Total no	Length of each bar ↑ mm	Shape code	A mm *	B mm *	C mm *	D mm *	E/R mm *	
	10	H10	-	-	04	2250	00	2244					-
	11	H10	-	-	02	2925	00	2920					-
	12	H10	-	-	02	5850	00	5846					-
	13	H10	-	-	04	5025	00	5024					-
	14	H10	-	-	16	4850	00	4827					-
	15	H10	-	-	20	5050	00	5048					-
	16	H10	-	-	02	2275	00	2273					-
	17	H10	-	-	02	250	00	244					-
	18	H10	-	-	02	4950	00	4934					-
	19	H10	-	-	02	3250	00	3230					-
	20	H10	-	-	02	2825	00	2823					-
	21	H10	-	-	02	750	00	741					-
	22	H10	-	-	02	1275	00	1263					-
	23	H10	-	-	02	300	00	294					-
	24	H10	-	-	02	3850	00	3841					-
	25	H10	-	-	02	4550	00	4535					-
	26	H10	-	-	02	4925	00	4910					-
	27	H10	-	-	02	1200	00	1197					-
	28	H10	-	-	02	3850	00	3842					-
	29	H10	-	-	02	2825	00	2823					-
	30	H10	-	-	02	4175	00	4161					-
	31	H10	-	-	02	4850	00	4837					-
	32	H10	-	-	02	1325	00	1318					-

This schedule complies with the requirements of BS 8666:2005 * Specified in multiples of 5mm + Specified in multiples of 25mm

JAMESON CONSULTING
Site ref: LIDL BIRSTALL LEEDS
Location: CONC. UPSTANDS - LACERS
Job No: 4529
REBAR Schedule ref: S (40) 04 03 Rev. -
Date prepared: MAR 2026 Date revised: -
Prepared By: RL Checked by: CM

Member	Bar mark	Type & size	No of mbrs	No of bars in each	Total no	Length of each bar ↑ mm	Shape code	A mm *	B mm *	C mm *	D mm *	E/R mm *	
	33	H10	-	-	02	400	00	387					-
	34	H10	-	-	02	4950	00	4935					-
	35	H10	-	-	02	4650	00	4636					-
	36	H10	-	-	02	4800	00	4798					-
	37	H10	-	-	02	3325	00	3324					-
	38	H10	-	-	02	2425	00	2416					-
	39	H10	-	-	02	900	00	884					-
	40	H10	-	-	02	2275	00	2275					-
	41	H10	-	-	02	2750	00	2749					-
	42	H10	-	-	02	5100	00	5081					-
	43	H10	-	-	02	3575	00	3572					-
	44	H10	-	-	02	5100	00	5078					-
	45	H10	-	-	02	3700	00	3690					-
	46	H10	-	-	04	4900	00	4880					-
	47	H10	-	-	02	3075	00	3052					-
	48	H10	-	-	02	3775	00	3762					-
	49	H10	-	-	02	2700	00	2682					-
	50	H10	-	-	02	2050	00	2043					-
	51	H10	-	-	02	725	00	707					-
	52	H10	-	-	02	4125	00	4109					-
	53	H10	-	-	02	4125	00	4120					-
	54	H10	-	-	02	4525	00	4520					-
	55	H10	-	-	04	4850	00	4831					-

This schedule complies with the requirements of BS 8666:2005 * Specified in multiples of 5mm + Specified in multiples of 25mm

JAMESON CONSULTING
Site ref: LIDL BIRSTALL LEEDS
Location: CONC. UPSTANDS - LACERS
Job No: 4529
REBAR Schedule ref: S (40) 04 04 Rev. A
Date prepared: MAR 2026 Date revised: -
Prepared By: RL Checked by: CM

Member	Bar mark	Type & size	No of mbrs	No of bars in each	Total no	Length of each bar ↑ mm	Shape code	A mm *	B mm *	C mm *	D mm *	E/R mm *	
	56	H10	-	-	02	950	00	923					-
	57	H10	-	-	02	1300	00	1300					-
	58	H10	-	-	02	1375	00	1367					-
	59	H10	-	-	02	4800	00	4786					-
	60	H10	-	-	02	500	00	500					A

This schedule complies with the requirements of BS 8666:2005 * Specified in multiples of 5mm + Specified in multiples of 25mm

REV	DESCRIPTION	BY	CHK	APP	DATE
C	DRAWING STATUS REVISED TO AS BUILT	RL	CM	CM	02.09.26
B	UPSTAND PROTECTION PLATE DETAIL ADDED.	RL	CM	CM	27.05.26
A	FIRE CURTAIN UPSTAND ADDED.	RL	EJ	CM	12.03.26

JAMESON CONSULTING
Pure Offices, 4100 Park Approach, Thorpe Park, Leeds LS15 8GB
0113 8231 915 info@jamesonconsulting.co.uk

Client:

Project:
LIDL BIRSTALL
LEEDS

Drawing Title:
PROPOSED NEW STORE
CONC. UPSTAND REBAR SCHEDULE
DRAWING 2 OF 2

Scale	A1	Drawn	Date	Checked	Date	Approved	Date
1:10		RL	MAR 26	EJ	MAR 26	CM	MAR 26

Drawing No.
4529 JCE S (40) 05

Revision
C

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SHEET SIZE : A1 LANDSCAPE

P:\LIDL - JCs\BIRSTALL\DWGs\TENDER\DRAWINGS\S (40) 04 LIDL BIRSTALL DRAWING.dwg - APR 2026 - RL PLOTTED BY: RICHARD LAPPER - PLOTTED DATE: 27 November 2025 14:15:5

Protech GM Super

GAS PROTECTION

• HIGH RISK CHARACTERISTIC SITES •

REGULATIONS COMPATIBILITY TABLE

	CIRIA 665 CHARACTERISTIC SITUATION 2	CIRIA 665 CHARACTERISTIC SITUATION 3-6	BS8485 CHARACTERISTIC SITUATION 2	BS8485 CHARACTERISTIC SITUATION 3-6	BRE 211 RADON	NHBC AMBER 1	NHBC AMBER 2 & RED
METHANE	✓	✓	✓	✓	N/A	✓	✓
CARBON DIOXIDE	✓	✓	✓	✓	N/A	✓	✓
RADON	N/A	N/A	N/A	N/A	✓	N/A	N/A

DESCRIPTION

Protech GM Super is a proprietary reinforced gas barrier, that incorporates a 12 micron aluminium foil layer, for maximum protection against ground-borne gases. This specifically conforms with the latest guidance documents. The membrane also provides protection from damp when placed below the slab and, therefore, there is no need to install a separate DPM.

SPECIFICATION

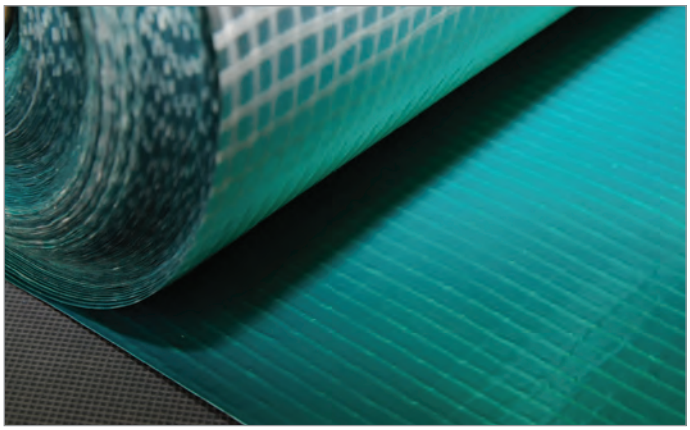
CIRIA C665, BS8485:2015 & Local Authority Ground Gas Handbook recommended that gas membranes are specified on the basis of the 'need to survive' construction, i.e. use one that is puncture and tear resistant.

Thickness should not be the main determinant of the suitability of a membrane for a particular site, although it can indirectly influence some key performance parameters.

In practise, because of the nature of construction sites, the survivability of membranes are equally important than purely permeability to gas.

Protech GM Super incorporates a reinforced grid to ensure that maximum protection is achieved when installed to manufacturers' instructions.

The need for high quality workmanship during installation should not be under-estimated. The health and safety of the occupants of the building is dependent on its satisfactory performance. If installed incorrectly or damaged during the construction process, the membrane is rendered ineffective and will fail to provide adequate protection against the ingress of ground gas or vapours.



TYPICAL PROPERTIES BS EN 13967:2012	
Roll Length	50m
Width	2m
Weight	370g/m^2
Thickness	0.4mm
Colour	Green / Silver
Methane Permeability (ISO 15105-1)	≤ 0.1 ml/day/m^2

REQUIRED ACCESSORIES

- Protech GM Super Starter Band (1m x 50m)
- Protech GM Tape
- Protech GM Tophats
- Protech SAGM (Self Adhesive Gas Membrane)
- Protech GM Flashing Strip
- Protech GM Super Corner Units
- Protech GM Primer
- Protech GM 3mm Protection Board
- Protech GM Protection Fleece
- Protech 125

VENTING

On sites where venting is required, our Provoid Venting System should be used. We can provide design advice for both passive and active venting systems to suit individual site requirements.

Protech SAGM

GAS PROTECTION

DESCRIPTION

Protech SAGM is a self adhesive gas and waterproofing membrane for use in detailing and vertical installation applications.



APPLICATIONS

Protech SAGM can be used on any site where Carbon Dioxide, Radon or Methane is present. Methane will occur on any construction, on any sites previously used for landfill. Such conditions can exist on household, commercial and industrial sites. Protech SAGM is optimal for detailing work around awkward penetrations and finishes. It is suitable for vertical, horizontal, stepped and cavity applications, however care should be taken when applying to porous materials that Protech GM Primer be used first.

USAGE

Protech SAGM should be installed in accordance with manufacturers instructions. Protech SAGM consists of an aluminium/polythene laminate coated on one surface, and a bitumen-polymer adhesive compound.

METHOD

Protech SAGM has a removal silicone coated paper on the lower side. Release liner should only be removed at the time of use. SAGM installation must not be carried out below 5°C and some warming with a hot air gun may be required between temperatures of 5 and 10°C to ensure a satisfactory seal. Ensure exact positioning prior to removal of the release film, as product will adhere instantly and any repositioning may compromise the adhesive properties.

STORAGE & HANDLING

The product should be stored out of direct sunlight, and should avoid strong acids, alkalis and oxidising agents.

BGA British Geomembrane Association

Protech SAGM

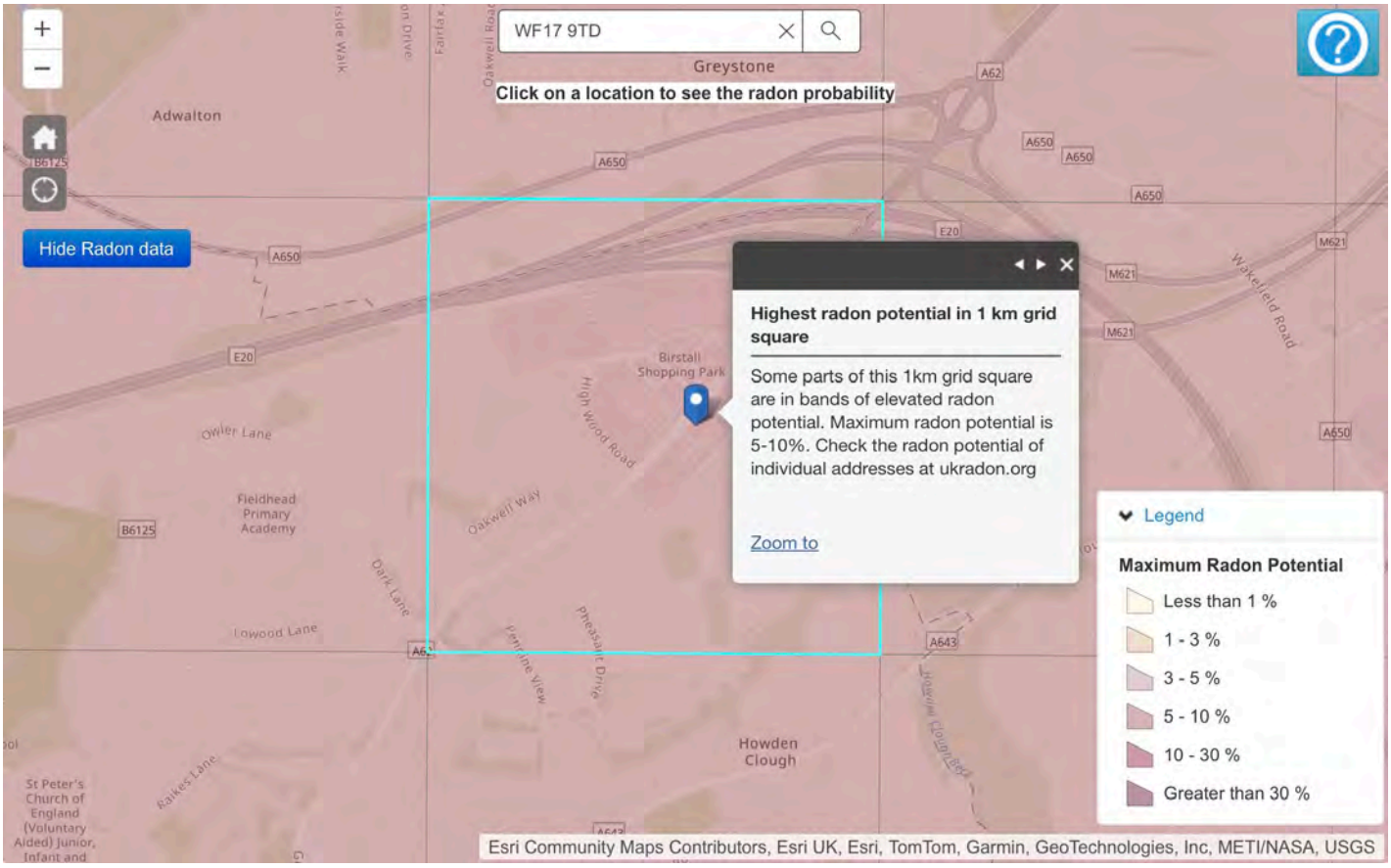
TYPICAL PROPERTIES		
Property	**Test Method**	**Result**
Roll Size	EN 1848-2	1.05m x 19.05m
Thickness	EN 1849-2	1.5mm
Weight	EN 1849-2	1700 g/m^2
Water tightness to liquid water	EN 1928	Pass
Resistance to Static Load	EN 12730	20kg Pass
Tensile Properties, Maximum Tensile Stress	EN 12311-2	CD ≥ 2N/mm^2 MD ≥ 2N/mm^2
Tensile Properties, Elongation at Break	EN 12311-2	CD ≥ 120% MD ≥ 120%
Durability of Watertightness against ageing	EN 1847 Method A 60 KPa	Pass
Durability of Watertightness against chemicals	EN 1847 Method A 60 KPa	Pass
Resistance to Impact	EN 12691	≥ 700mm
Resistance to tear (Nail Shank) CD/MD	EN 12310-1	CD ≥ 110N MD ≥ 110N
Reaction to Fire (Euro Class)	EN 13501	Class F
Joint Strength	EN 12317-2	≥ 45N
Water Vapour Transmission (Density Flow rate)	EN 1931	0.013 g/(day/m^2)
Water Vapour Transmission (Resistance factor, μ)	EN 1931	2380000 μ
Other Data		
Methane GTR	ISO 15105-1	< 10ml/m^2.day
Carbon dioxide GTR	ISO 15105-1	< 10ml/m^2.day
Radon Diffusion	-	5.0 x 10^{-14}
Roll Weight	-	33kg

Download a full Gas Protection brochure from our website...
www.proctorgroup.com

contact@proctorgroup.com | +44 (0) 1250 872261

GeoShield Verification Plan

RADON MAPS UK - (Map 1) Site Location



Maximum Radon Potential: 5-10%

Description: Basic radon protection measures required.

Postcode: WF17 9TD

GeoShield Verification Plan

CLIENT DETAILS

CLIENT CONTACT:	Jonathan Smith
CONTACTS ROLE:	
MOBILE PHONE:	07557 869 035
EMAIL ADDRESS:	Jonathan@pageo.co.uk

CLIENT CONTACT:	
CONTACTS ROLE:	
MOBILE PHONE:	
EMAIL ADDRESS	
NOTES:	

GeoShield Verification Plan

APPLICATOR'S DETAILS

APPLICATOR NAME:	TBC
COMPANY:	PAGeo Contracting Ltd
APPLICATOR TEL:	
APPLICATOR EMAIL:	

APPLICATOR NAME:	TBC
COMPANY:	PAGeo Contracting Ltd
APPLICATOR TEL:	
APPLICATOR EMAIL:	

NOTES: At least one member of each team group will have a NVQ Level 2 qualification in the gas membrane installation.

All installers are competent and skilled to complete gas membrane installation.

GeoShield Verification Plan

APPLICATOR'S DETAILS

TRAINING LEVEL:

SPECIALIST CONTRACTOR:	YES	✔	NO	
NVQ LEVEL 2:	YES	✔	NO	
NVQ LEVEL 4:	YES		NO	✔
COMPETENT APPLICATOR :	YES	✔	NO	

REASON FOR VISIT:

DURING INSTALLATION:	✔	UNDERSLAB VENTILATION	
PRE - POUR:		DPC MEMBRANE CONNECTION	
TESTING:	✔	OTHER (PLEASE SPECIFY):	

NOTES: See method statement for breakdown of site visits.

NOTES: Having worked with PAGeoContracting Ltd on numerous successful projects these applicators will be deemed to be at an appropriate skill level For the job of installing the ground gas protection measures.

GeoShield Verification Plan

HEALTH AND SAFETY

INDUCTION:	YES		NO:	✔
INDUCTION TIME:				

CSCS CARD:	YES	✔	NO:	
CSCS CARD NUMBER:	5369294			

METHOD STATEMENT:	YES	✔	NO:	
RISK ASSESSMENT:	YES	✔	NO:	
COSHH:	YES	✔	NO:	

SITE SPECIFIC HAZARDS: Materials falling from height

Slips, trips and falls

Excavations

Confined spaces

Plant

GeoShield Verification Plan

In accordance with guidance from CIRIA 735 & CIRIA C748.

Radon gas protection measures specify to the guidance from the BR 211 document:

VOC/Hydrocarbons	☐	RADON BASIC	☑
		RADON FULL	☐

Characteristic Specification (CS) Rating	CS2
Building Type:	TYPE C
POINTS REQUIRED UNDER BS8485:2019	2.5 POINTS

POINTS GAINED FROM BS8485:2019

Score for Structural Barrier:	1.5 POINTS
Grade 2 Basement:	N/A
Grade 3 Basement:	N/A
Score for Venting:	N/A
Car Park:	N/A
Score for Membrane:	2.0 POINTS
POINTS ACHIEVED UNDER BS8485 2019:	3.5 POINTS

GeoShield Verification Plan

TESTING

VISUAL: PICK & PROBE/MECHANICAL POINT STRESS TEST:	✔
NON-DESTRUCTIVE COMPRESSED AIR LANCE TEST:	✔
NON-DESTRUCTIVE SMOKE TEST:	
DESTRUCTIVE JOINT TESTING:	
NON-DESTRUCTIVE TRACER GAS TESTING:	
DIELECTRIC POROSITY TEST:	
PUMP TEST FOR "Twinny" WELD	

NOTES: From the risk assessment GeoShield will initially conduct a visual

NOTES: and pick and probe testing regime for this project.

NOTES: Air lance testing with be conducted to test the installed membrane in

NOTES: accordance with CIRIA 735.

NOTES:

NOTES: Only if the application falls below the accepted standard will other testing

NOTES: be used.

GeoShield Verification Plan

VERIFICATION REPORT

These items will be included in the report

NUMBER 1	GAS MEMBRANE SPECIFICATION
NUMBER 2	ELEMENTS OF THE GAS MEMBRANE
NUMBER 3	DATE, TIME and WEATHER CONDITIONS
NUMBER 4	PLANS and DETAILS ISSUED
NUMBER 5	INSTALLATION PHOTO's RELATING TO GRID LINES
NUMBER 6	REPORTING DEFECTS AND LOGGING IN REMEDIATION LOG
NUMBER 7	AREAS OF LIMITATION (areas unable to inspect)
NUMBER 8	LOGGING AND REPORTING RESULTS OF TESTING

VERIFICATION REPORT ISSUE

HARD COPY:	YES	✔	NO		EMAIL:	YES	✔	NO	
DROP BOX LINK:	YES	✔	NO		FLASH DRIVE:	YES		NO	✔

GeoShield Verification Plan

GEOSHIELD COMPETENCE

>GeoShield was founded in 2015

>GeoShield solely verifies, they are fully independent of installers, manufactures and geotechnical companies.

>GeoShield follow guidance in CIRIA 735 (sufficient experience, membership of relevant professional organisations) GeoShield are members of the BVC, BGA, ERA The RADON Council, and UKRA

>Currently GeoShield hold the Chairmanship of the British Verification Council

>Two employees are NSAC Level 3 assessors for the NVQ 2 Gas Membrane install

>GeoShield were key in forming the NVQ 4 Verification qualification in which 2 Verification officers are undertaking this qualification

>GeoShield have the only qualified assessor for the NVQ 4 Verification qualification

>GeoShield Verification officers currently keep up to date CPD's

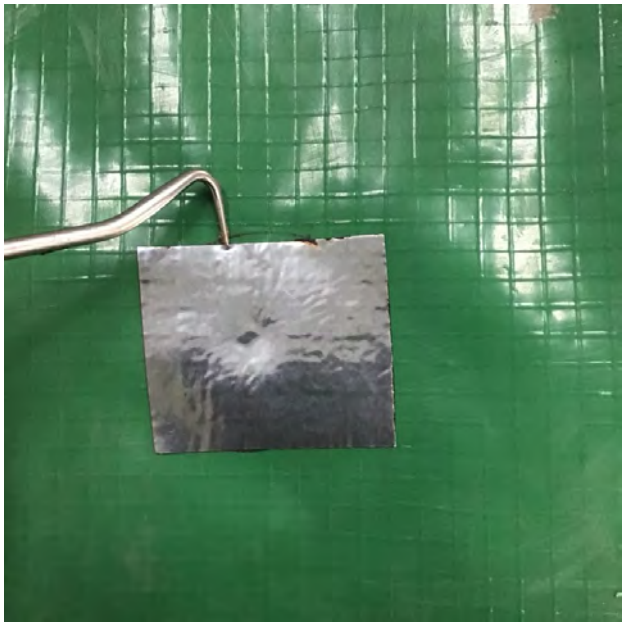
>All GeoShield Verification Officers have a full understanding of gas membrane install including 3 experienced (NVQ 2) installers in the GeoShield team

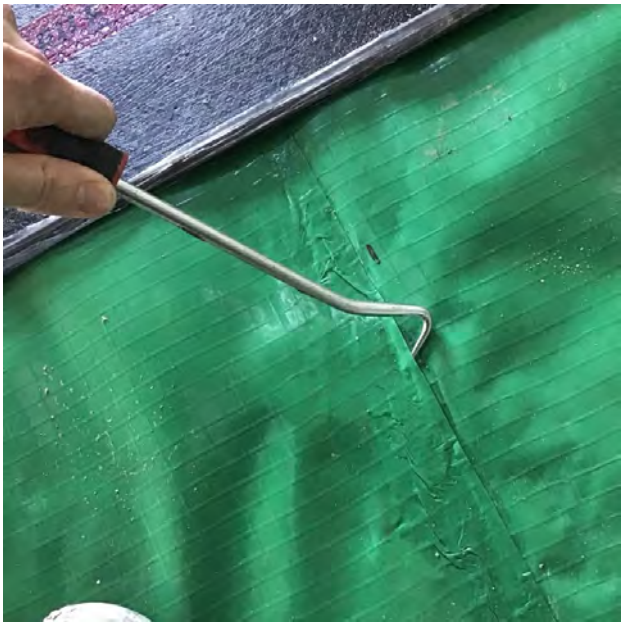
>GeoShield Verification Officers are all independent carrying there own air compressors. Other testing equipment GeoShield have access to are 2 x Buckley Dielectric Testing machines and also inert gas testing equipment

GeoShield Verification Plan

SPECIFICATION

Mechanical Point Stress/ ‘Pick and Probe’ Testing





CIRIA 735

4.3.2 - Mechanical point stress tests involve running a blunt instrument (e.g. a screwdriver) along the edge of a seam to identify any unbonded seams. This method is not as effective as air lancing but it can be especially useful in hard to reach areas where it is not possible to air lance.

The instrument used should not puncture the gas membrane. This method is less appropriate for materials that are easily punctured where an air lance test is more suitable (although if a gas membrane can be easily punctured its suitability as a membrane is open to question).

GeoShield Verification Plan

SPECIFICATION

Air Lance Testing





CIRIA 735

4.3.3 - Air lance testing identifies unbonded areas of seam by directing a high pressure jet of air at the seam. The air is at a minimum pressure of 345kPa via a 4.8mm nozzle and is located no more than 50mm from the seam being tested.

In order to achieve the requirements of ASTM D4437-08:2013 bespoke specialist equipment is required to maintain the required pressure.

GeoShield Verification Plan

RISK ASSESSMENT

SITE SPECIFIC CIRCUMSTANCES	1	2	3	4	5
Complexity of Design			✔		
Repetition of design		✔			
Experience of workforce		✔			
Gas regime			✔		
Project management experience			✔		
Installation conditions (exposed?)			✔		
Robust Project specific gas design		✔			

TYPE OF RISK	RANGE	RISK
High Risk	23 - 30	
Medium High Risk	19 - 22	
Medium Risk	15 - 18	18
Medium Low Risk	11 - 14	
Low Risk	0 - 10	

GeoShield have classed this project as a medium risk.

GeoShield will lay all perimeters down for standards at the pre-verification meeting to

assist both the installer and the main contractor.

GeoShield Verification Plan

TESTING PROCEDURE

Method Statement - Pipe Penetrations and Service Entries Notice Signs





Geoshield Notice Signs -
During testing on site, notice signs will be tied to all service entries which will be
sealed internally at a later date.
Verification to the internal sealing of ducts will be carried out at a later stage in the project and will be kept separate to initial certificates.
Main contractor to contact Geoshield on completion for inspection.

GeoShield Verification Plan

TESTING PROCEDURE

Method Statement - Membrane Sticker Notice Signs





Geoshield Notice Signs -

During testing on site, areas cannot be passed unless verification stickers have been applied, once remediations have been successfully carried out.

GeoShield Verification Plan

METHOD STATEMENT - Page 1

EXPECTED VISITS:-	3 site visits are expected in line with the proposed build programme, additional visits may be considered (if required) to achieve sign off.
TESTING:-	Mechanical Point Stress (Pick & Probe) testing on welded areas. Air lance testing with be carried out (as per CIRIA C735 Annex 1, Table A3). Only if the application falls below the accepted standard will other testing be used. This project will NOT achieve sign off for gas membrane installation unless independent verification is carried out.
PURPOSE:-	Geoshield are 3rd party gas membrane verifiers in accordance with CIRIA 735 and for this project to be compliant with Bs8485, the gas system must meet certain criteria from the document to achieve mitigation of score for verification. The chosen membrane must be verified by Geoshield to ensure the materials have been installed in accordance with the manufacturer's specification.
REPORTING:-	Each site visit be accompanied with a written and electronic report. Any remediations either completed on the visit or outstanding will be recorded and logged, sign off will not be achieved for each section area until all remediations has been completed. This will be fully recorded at all times.

GeoShield Verification Plan

METHOD STATEMENT - Page 2

GROUND GAS RISK:-	From the Ground Gas Assessment,

this project has been classified as Type C building and a CS2

rating in accordance with BS8485:2015+A1 2019, so this project will require a

minimum score of 2.5 points for mitigation with basic radon protection.

This will be achieved by 3rd party verification of the Gas protection membrane

Installation and reinforced concrete raft slab, where applicable to the site

specific design. A combination of which will achieve the necessary requirements.

GAS MEMBRANE PROTECTION:-	It is advised that the substrate should be prepared

by removal of loose stone and debris. Other forms of protection could be in the

form of either a protection board, geotextile fleece and insulation. In addition labels

will be issued by Geoshield to restrict access to the installed area by follow on

trades and help raise awareness to encourage a better duty of care. This will help

to reduce the risk of potential damage caused to the gas membrane system.

FINAL:-	Geoshield will liaise with the projects site supervision and all relevant

parties prior to the installation start. This plan will be presented and reviewed, all

points made clear as previously stated. Any alterations will be listed at the end of

this plan as an all party agreed way forward.

GeoShield Verification Plan

SUBSTRATE METHOD STATEMENT

SUBSTRATE TYPE:

Block and Beam Construction			Yes		No	✔	
Minimum Preparation	Swept Clear		Yes		No	✔	
Minimum Preparation	Vacuuming		Yes		No	✔	
Minimum Preparation	Compressed air to remove		Yes		No	✔	
Minimum Preparation	Remove Mortar Droppings		Yes		No	✔	
Stone Substrate			Yes	✔	No		
Minimum Preparation	Minimum 25mm Sand Blinding		Yes		No	✔	
Minimum Preparation	Limestone Dust		Yes		No	✔	
Minimum Preparation	Compacted Substrate		Yes	✔	No		
Minimum Preparation	No large stones		Yes	✔	No		
Concrete Substrate			Yes		No	✔	
Minimum Preparation	No Hollows		Yes		No	✔	
Minimum Preparation	Troweled Surface		Yes		No	✔	
Remarks:							

GeoShield Verification Plan

PRE-CONTRACT MEETING

Items for discussion at the Pre-Contract meeting	
>Induction Procedure	
>Identification of installation team and point of contact	
>Identification of Project management team	
>Identification of Sub-Contractors associated with membrane installation	
>Validation of Membrane and design specification	
>Verification procedure	
>Notifications for Verification	
>Preparation of substrate	
>Program of works	
>Utility entry	
>Protection of Membrane	
>Remediation Procedure	
>Testing Procedures	
>Sign off Procedure	
>Installer PI	

All information is assumed correct at time of issue.

DATE:

GeoShield Verification Plan

PRE-CONTRACT MEETING SUMMARY

A pro-forma quality assurance document will be discussed during the Pre-Verification

meeting and training undertaken with the management team for non verified areas.

The Pre-Verification meeting will be led by Geoshield and should include all relevant

parties who have an impact on the installation and future protection. Geoshield will

provide guidance and strategy for all parties.

The site specific checklist will be covered as well as the risk assessment.

This site has been classified as CS2 with basic radon protection.

Any design alterations will be discussed and included in a revised Pre-Verification Plan.

Any specification changes must also be included in a revised Pre-Verification Plan.

All items will be minuted by the Geoshield representative.

This Pre-Verification plan follows all current guidance and the aim is to make all parties

aware of the ramifications of poor installation and their responsibilities if they damage

the membrane.

BR211 Quality Management Rcord

Design		Allocate contractual responsibility	Accountable party
Radon search	Carry out a radon search via www.ukradon.org to establish what level of protection is required.	Client/ Designer	
Drawings	Establish the location of the Radon Barrier in conjunction with the building design (section 5). Ensure there is continuity of the barrier across the full footprint of the building. With full radon protection, identify the location of sumps and their exhaust outlets or underfloor vents (ensuring adequate numbers on at least two faces of the building to ensure a cross flow of air). Liaise with building control.	Designer	
Specification	Specify appropriate materials (section 6), check with manufacturers and suppliers that components, materials and sealants are compatible with each other and are suitable for use as a radon barrier. Consider using accredited installers particularly for more complex projects, determine the inspection regime and on-site quality management (section 7).	Designer	
Buildability	Consider buildability and the order of construction/inspection necessary to achieve a continuous barrier.	Construction/ Design Team	
	Construction		
Schedule of work and Pre-Inspection Planning	A risk-based approach is recommended, via Pre-Inspection Planning, which would consider various elements that could affect the installation and performance of the radon protection system including the complexity of the installation, the competency of the application team and influences of adjacent and follow-on trades.	Construction Design Team / Inspector	Geoshield
Procurement of materials and installers	Ensure that materials purchased match the requirements set in the project specification. Reduced specification is likely to result in reduced protection. Consider using accredited installers particularly for more complex projects.	Contractor/ Inspector	Geoshield
Weather conditions	Avoid installation of barriers in wet, windy or cold weather. Minimise the length of time that the barrier is exposed to the weather. It is easier to lay a barrier internally just before laying a protective layer such as a floor topping. Weather conditions to be recorded.	Contractor/ Inspector	
Barriers through walls	Ensure cavity trays are installed with an adequate step to prevent damp penetration, all joints in the tray and where it abuts the main floor barrier are, sealed, and, weepholes and cavities are clean. An installation inspection record is required.	Designer/ Inspector	
Barriers within floors	Check that the membrane is laid on a smooth level surface (typically blinding or insulation), all joints in the membrane and where it abuts barriers through walls are sealed, and all penetrations for services or structural members are fully sealed. An installation inspection record is required	Inspector	Geoshield
Sumps	Ensure that sumps are correctly located and assembled, that exhaust pipework is not damaged and exits the building away from doors, windows and vents, and is suitably labelled. An installation inspection record is required	Inspector	N/A Basic Measures
Underfloor ventilation	Check that sufficient underfloor vents have been installed as required, and that they are clear. An installation inspection record is required	Inspector	N/A Basic Measures
Prior to covering up	Protect the completed barrier and inspect for damage, repairing as necessary immediately prior to covering up with later construction. An installation inspection record is required.	Inspector	Geoshield

BR211 Quality Management Rcord

Completion	Allocate contractual responsibility	Allocate contractual responsibility	Accountable party
Prior to Handover	Check that the exhaust outlet from the sump is labelled and the outlet and/ or underfloor vents have not been covered up by landscaping works. An installation inspector record is required.	Installer / Inspector	
Handover to purchaser	Provide a report explaining the level of Radon protection provided, see 'information to be provided to the purchaser' section. This report should include a completed Radon Protective Measures Quality Management Record and documented evidence of the installation inspection	House Builder	
Radon Monitoring	It is recommended by the UK Health Security Agency (HSA) that any new building should be subject to an appropriate test during the first year of occupation. The proposed dates for radon testing to commence should be included in the handover document.	Occupier	

GeoShield are responsible for carrying out activities assigned to them as per the above document 'BR211 quality management record'. GeoShield do not take responsibility for elements of work outside of our scope or the full build process.

APPENDIX H

HOME BARGAINS GROUND GAS PROTECTION MEASURES

GeoShield Verification Plan

PROJECT DESCRIPTION

GEO106192
PAGeoContracting Ltd
Home Bargains, Birstall Retail Park / 9488
Bankwood Way,
Birstall,
WF17 9TD

The proposed development for which gas protection measures are required involves the construction of a Home Bargains Store.

In accordance with BS 8485:2015+A1:2019, the Type C building must conform to a Characteristic Specification (CS) rating of 2, so mitigation will need to be 2.5 points with basic radon protection.

GeoShield have adopted the highest design and verification principles associated with BS 8485:2015+A1:2019, BR 211, Public Health England, NHBC Technical Extra April 2016 and CIRIA C735.

This Pre-Verification plan reviews the design to ensure it is compliant with the developer and planning authority requirements and in conjunction with the relevant investigation report in accordance with BS 8485:2015+A1:2019.

In summary, the design does achieve a required level of attention to detail with its robust specific gas membrane design (2 points) and the structural barrier of a ground bearing slab (0.5 points).

The Pre-Verification plan confirms how the installation will be tested in accordance with CIRIA C735. The verification visits will be documented in verification reports during the project that are suitable for submission to the local planning authority in order to satisfy and discharge planning consent.

All faults identified during inspection and the verification site visit of the ground gas system will be itemised as remediations which will need to be signed off in the remediation log for the proposed building.

GeoShield Verification Plan

PROJECT DESCRIPTION

Pre-Verification Plan

GeoShield are appointed by the Client to carry out independent validation, verification and integrity testing of the ground gas protection system on site. The Pre-Verification plan sets out the requirements and procedures that GeoShield will adopt to ensure that the installation is in line with the proposed design, relevant UK standards and guidance.
GeoShield take no responsibility for any warranties to third parties for the design of the system or the installation.

Limitations

The Pre-Verification plan prepared by GeoShield Limited is limited to the proposed ground gas protection measures installed. The Pre-Verification plan has been prepared in line with the relevant UK Standards and Guidance (BS 8485:2015+A1:2019 & CIRIA C735) alongside the information made available to GeoShield by the Client. The conclusions made in the report are considered to be correct at the time of writing, but additional information provided/discovered may require amendments to the Plan. GeoShield recognises that changes to relevant standard and guidance may occur at any time which may cause the conclusions made to be incorrect - GeoShield do not accept any responsibility or liability for the implications of such changes.

The Pre-Verification plan does not in itself constitute verification that the membrane has been installed in accordance with this document. Validation and verification of the installed membrane will be covered in separate verification reports following physical inspection of the gas barrier and will include photographic evidence of the installation.

Waterproofing elements (where applicable) do not fall into the remit of this Pre-Verification plan or future inspections. GeoShield will provide the opinion on membrane's suitability for ground gas protection purposes – no liability is offered or implied for the waterproofing element which should be checked by others.

GeoShield Verification Plan

PROJECT REFERENCE:	GEO106192
PROJECT:	Home Bargains, Birstall Retail Park / 9488
PROJECT ADDRESS:	Bankwood Way,
	Birstall,
	WF17 9TD
SPECIFICATION:	Verified in accordance with CIRIA C735.
	Design in accordance with BS 8485:2015+A1:2019.
	Substrate prepared in-accordance with manufacturers instructions.
	Protech GM Super
	Protech SAGM

GeoShield Verification Plan

CONTENTS

Section 1	Project description
Section 2	Project material specification
Section 3	Project information
Section 4	GeoShield surveyor information
Section 5	Project information: Drawings, S.I, MSDS, Radon Maps
Section 6	Client Details
Section 7	Application team leaders
Section 8	Gas regime
Section 9	Testing
Section 10	Risk assessment
Section 11	Method Statement
Section 12	Pre-Contract Meeting Checklist
Section 13	Pre-Contract Meeting Summary

GeoShield Verification Plan

INFORMATION INCLUDED

- Ground Gas Assessment
- Engineers drawings
- Material Specification Technical Data Sheets
- Radon Maps Uk
- BR211 Quality Management Record

Information presented to GeoShield at the pre-verification stage assumed correct.

The client will let GeoShield know of any changes or this Pre-Verification Plan will be void.

GeoShield Verification Plan

NAME OF SURVEYOR: Paul Colbeck

VERIFICATION COMPANY: GeoShield Limited

Icon Business Centre

4100 Park Approach

Thorpe Park

Leeds

CONTACT NUMBER: 07462 546 926

EMAIL ADDRESS: pcolbeck@geoshield.co.uk

ORDER NUMBER: To be confirmed

PER VISIT: YES: ☐ NO: ☐ PROJECT: YES: ☐ NO: ☐

GeoShield Verification Plan

SPECIFICATION



1080.04.01
24th February 2026
Apps

Gary Rafferty
Lidl Great Britain Ltd
Iport Unit 4
Ontario Drive
DN11 0BF

Dear Gary,

Post Remediation Ground Gas Assessment, Lidl Birstall, West Yorkshire

Remada Ltd was commissioned by Lidl Great Britain Ltd (the "Client") to update the earlier Ground Gas Risk Assessment for the proposed Lidl and Home Bargains stores on land off Bankwood Way, Birstall, West Yorkshire WF17 9TD. Remada was separately appointed by Stonedale Construction Ltd to prepare a Verification Report for the remediation works at Birstall as set out in Remada's Combined Remediation Strategy Drilling & Grouting Plan ref: 1080.07.01.

Remada's appointment by Stonedale excluded the post remediation ground gas monitoring requirement as set out in Kirklees Councils EHO response WK/202523429 and as detailed in Remada's Combined Remediation Strategy Drilling & Grouting Plan ref: 1080.07.03

This letter provides an addendum to Remada's Verification Report 1080.08.01 for whom the client was StoneDale Construction Ltd.

1. **Previous Reports**

A summary of all available reports have been tabulated and summaried by Remada in Section 2 of the 1080.07.03 Combined Remediation Strategy, Drilling and Grouting Plan, January 2025.

A few portions of Section 2.1.3 are stated: '*Historical landfill was indicated on-site across the majority of the site area and extending off-site to the southwest in 1970. Landfill operations were considered to have continued until the mid-1980s*', and '*Made Ground was found to vary spatially, with thicker Made Ground in the east of the site, shallowing rapidly in the northeast, and with thinner deposits of Made Ground in the west and north of the site*', and '*Weathered and solid bedrock was encountered at depths of less than 2.0m bgl outside the footprint of the historic landfill, and at a depth of 14.5m bgl within the footprint of the landfill.*'

The former reports state the site would be initially CS2 before adjusting to a CS4 designation for the entire site.

Where the landfill had been on site, deep Made Ground was encountered to a maximum depth of 14.5m and in the western portion of the site outside the former landfill, Made Ground was encountered to 2.0m bgl.

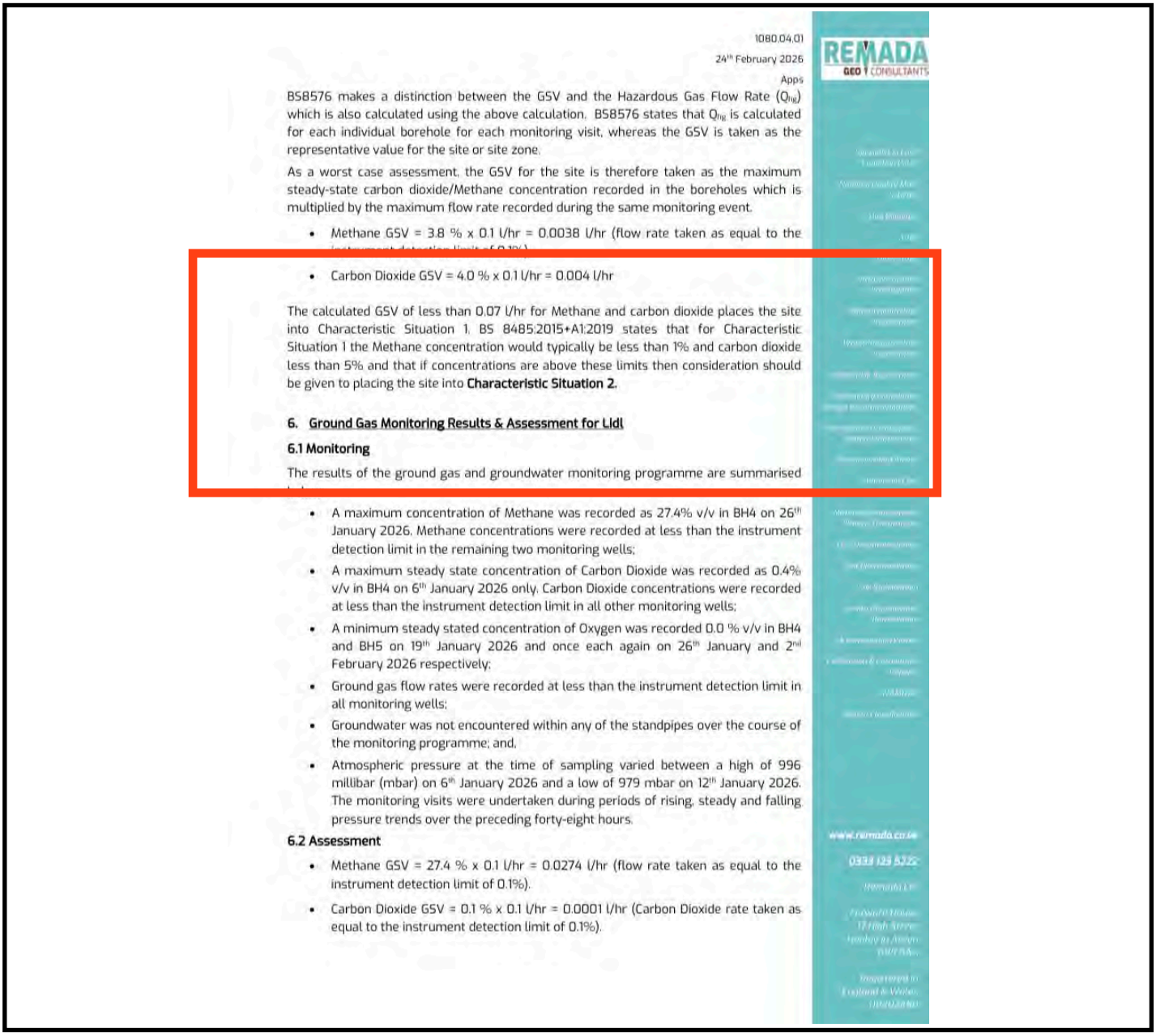
Title Reference & Description:

Ground Gas Assessment

Front page.

GeoShield Verification Plan

SPECIFICATION



1080.04.01

24th February 2026

Apps

BS8576 makes a distinction between the GSV and the Hazardous Gas Flow Rate (Q_{hg}) which is also calculated using the above calculation. BS8576 states that Q_{hg} is calculated for each individual borehole for each monitoring visit, whereas the GSV is taken as the representative value for the site or site zone.

As a worst case assessment, the GSV for the site is therefore taken as the maximum steady-state carbon dioxide/Methane concentration recorded in the boreholes which is multiplied by the maximum flow rate recorded during the same monitoring event.

- Methane GSV = 3.8 % x 0.1 l/hr = 0.0038 l/hr (flow rate taken as equal to the
- Carbon Dioxide GSV = 4.0 % x 0.1 l/hr = 0.004 l/hr

The calculated GSV of less than 0.07 l/hr for Methane and carbon dioxide places the site into Characteristic Situation 1. BS 8485:2015+A1:2019 states that for Characteristic Situation 1 the Methane concentration would typically be less than 1% and carbon dioxide less than 5% and that if concentrations are above these limits then consideration should be given to placing the site into **Characteristic Situation 2.**

6. Ground Gas Monitoring Results & Assessment for Lidl

6.1 Monitoring

The results of the ground gas and groundwater monitoring programme are summarised

- A maximum concentration of Methane was recorded as 27.4% v/v in BH4 on 26th January 2026. Methane concentrations were recorded at less than the instrument detection limit in the remaining two monitoring wells;
- A maximum steady state concentration of Carbon Dioxide was recorded as 0.4% v/v in BH4 on 6th January 2026 only. Carbon Dioxide concentrations were recorded at less than the instrument detection limit in all other monitoring wells;
- A minimum steady stated concentration of Oxygen was recorded 0.0 % v/v in BH4 and BH5 on 19th January 2026 and once each again on 26th January and 2nd February 2026 respectively;
- Ground gas flow rates were recorded at less than the instrument detection limit in all monitoring wells;
- Groundwater was not encountered within any of the standpipes over the course of the monitoring programme; and,
- Atmospheric pressure at the time of sampling varied between a high of 996 millibar (mbar) on 6th January 2026 and a low of 979 mbar on 12th January 2026. The monitoring visits were undertaken during periods of rising, steady and falling pressure trends over the preceding forty-eight hours.

6.2 Assessment

- Methane GSV = 27.4 % x 0.1 l/hr = 0.0274 l/hr (flow rate taken as equal to the instrument detection limit of 0.1%).
- Carbon Dioxide GSV = 0.1 % x 0.1 l/hr = 0.0001 l/hr (Carbon Dioxide rate taken as equal to the instrument detection limit of 0.1%).

Title Reference & Description:

Ground Gas Assessment

CS2 gas protection measures required.