

Existing



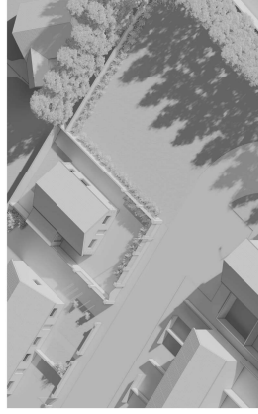
Spring Equinox

8am



Summer Solstice

8am



Autumn Equinox

8am



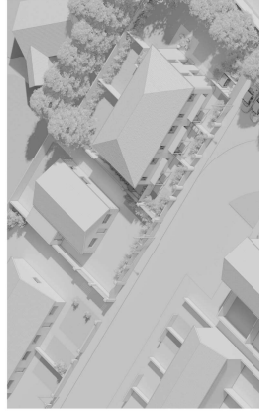
Winter Solstice

8am

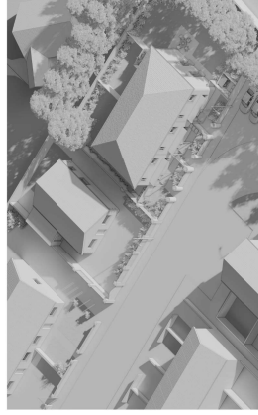
Proposed



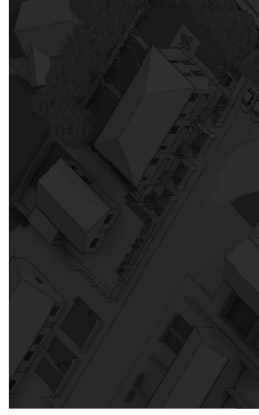
8am



8am



8am

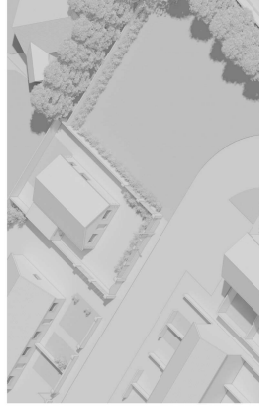


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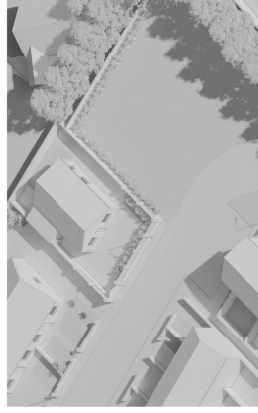
Existing



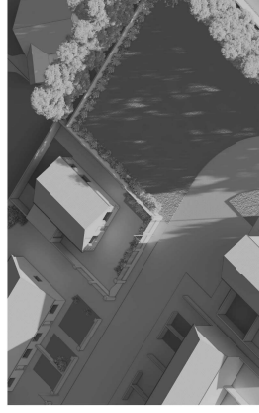
9am



9am



9am

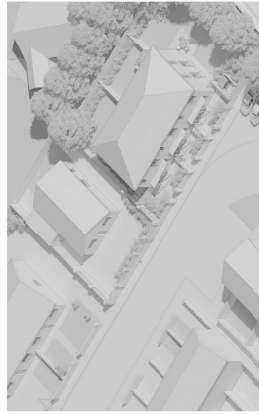


9am

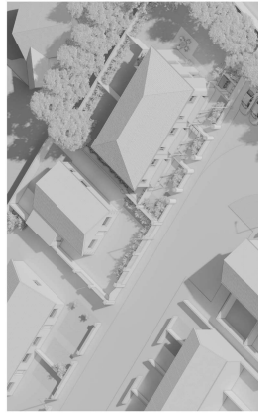
Proposed



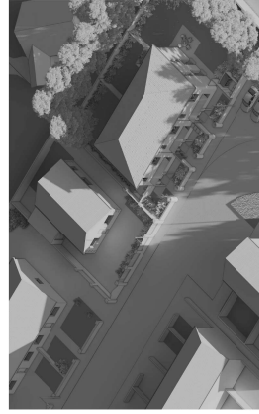
9am



9am



9am



9am



Comhairlí Áitiúla Chondae Lú
LOUTH LOCAL AUTHORITIES
 LOUTH COUNTY COUNCIL
 County Hall, Millennium Centre,
 Dundalk, Co. Louth,
 Phone (042)9355457

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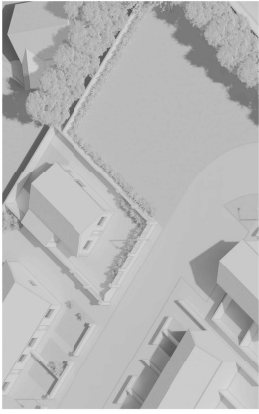
Rev. No.	Date	By	Description
C	24/10/23	BMcA	Section 179(G) Submission
B	01/08/23	BMcA	Section 179(G) Submission
A	30/06/23	BMcA	Section 179(G) Submission

Job
 GRANGE CLOSE
 MUIRHEVNAMORE
 DUNDALK CO. LOUTH

Title
 EXISTING VS. PROPOSED SHADOW STUDY SECTION 179(A) SUBMISSION

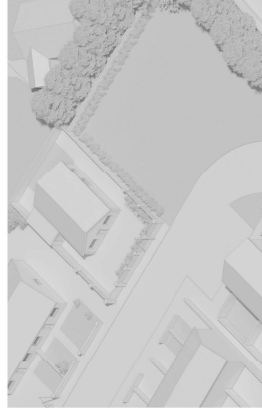
Issue Details
 Drawn B McA
 Sheet A1
 Scale
 Date OCTOBER 2023
 Office Use Only
 Drawing No. SS 001
 Rev. C

Existing



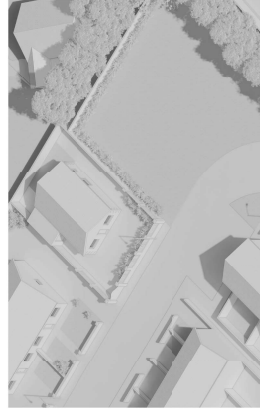
Spring Equinox

10am



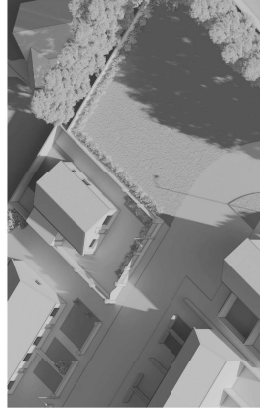
Summer Solstice

10am



Autumn Equinox

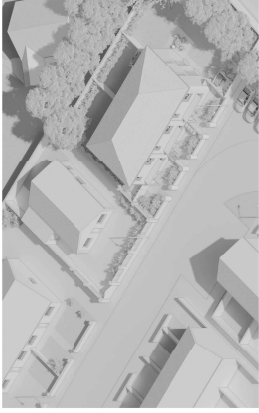
10am



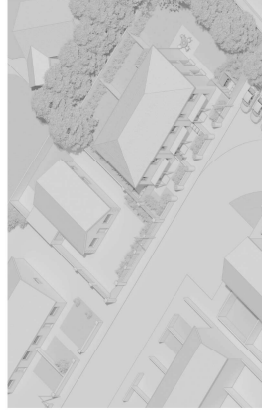
Winter Solstice

10am

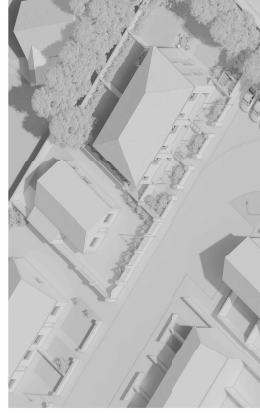
Proposed



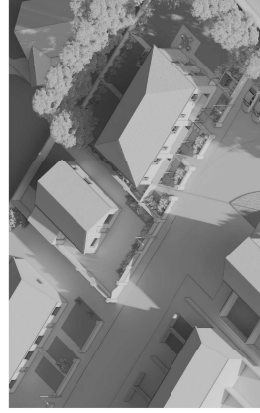
10am



10am

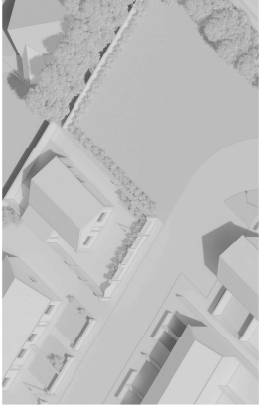


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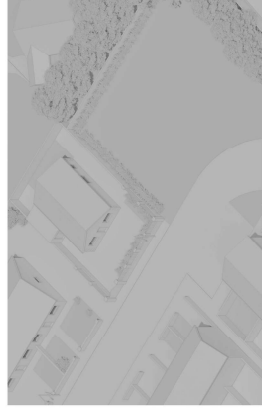


10am

Existing



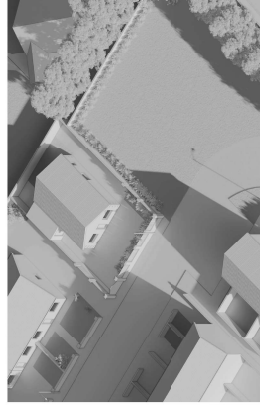
11am



11am

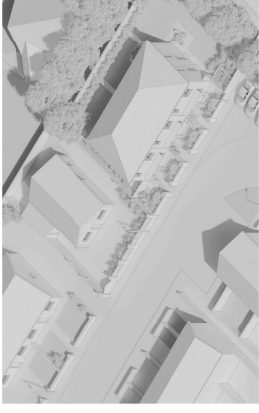


11am

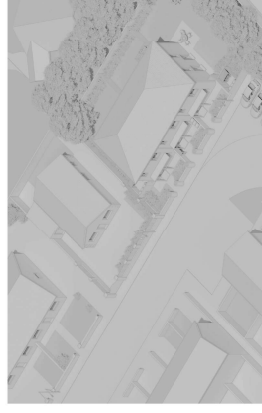


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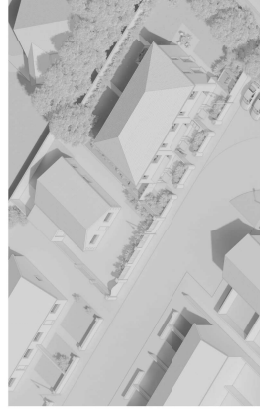
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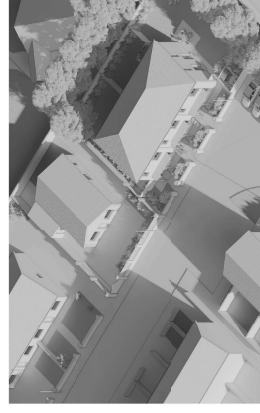
11am



11am



11am



11am

Comhairl  Aiti la Chondae L 
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Rev.	Date	By	Description
C	24/10/23	BMcA	Section 179(G) Submission
B	01/08/23	BMcA	Section 179(G) Submission
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Job
 GRANGE CLOSE
 MUIRHEVNAMORE
 DUNDALK CO.LOUTH

Title
 EXISTING VS. PROPOSED SHADOW STUDY SECTION 179(A) SUBMISSION

Issue Details		Office Use Only	
Drawn	B McA	Drawing No.	SS 002
Sheet	A1	Scale	
Date	OCTOBER 2023	Rev.	C



DAYLIGHT FACTOR CALCULATION (UNITS 1 & 2) Kitchen & Dining Area Units 1 & 2

Table with 4 columns: Area (m²), Ceiling Height, Floor, Wall, Window W x H, Total. Values: 6.04, 2.50, 0.00, 0.00, 2.10 x 1.50, 9.13.



Summary of Daylight Factor - DF table with columns: Room, DF, A, W, M, T, Average.

Source: Code for Sustainable Homes, HQE, Miljøbyggnad. The intention is to: promote good daylighting and thereby reduce the need for energy to light the home...

- 1 Intent: promote good daylighting and thereby reduce the need for energy to light the home. 2 Assessment methodology: This is based on a calculation of daylight factor in the home.

Level 4 - At least one of the living/kitchen spaces achieves average 2% daylight factor, with other living spaces achieving 2% and bedrooms achieve average 1.5% daylight factor.

Level 3 - Living spaces achieve average 2% daylight factor and bedrooms achieve average 1.5% daylight factor.

Level 2 - Living Room /Kitchen achieve average 1.5% daylight factor and bedrooms achieve average 1.5% daylight factor.

Level 1 - No calculation but all living spaces/bedrooms have window aperture area > 10% of floor area.



DAYLIGHT FACTOR CALCULATION (UNITS 1 & 2) Living Room Units 1 & 2

Table with 4 columns: Area (m²), Ceiling Height, Floor, Wall, Window W x H, Total. Values: 3.57, 2.50, 0.00, 0.00, 2.10 x 1.50, 7.18.



Summary of Daylight Factor - DF table with columns: Room, DF, A, W, M, T, Average.

Source: Code for Sustainable Homes, HQE, Miljøbyggnad. The intention is to: promote good daylighting and thereby reduce the need for energy to light the home...

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Level 4 - At least one of the living/kitchen spaces achieves average 2% daylight factor, with other living spaces achieving 2% and bedrooms achieve average 1.5% daylight factor.

Level 3 - Living spaces achieve average 2% daylight factor and bedrooms achieve average 1.5% daylight factor.

Level 2 - Living Room /Kitchen achieve average 1.5% daylight factor and bedrooms achieve average 1.5% daylight factor.

Level 1 - No calculation but all living spaces/bedrooms have window aperture area > 10% of floor area.



DAYLIGHT FACTOR CALCULATION (UNIT 3) Kitchen and Dining Area Unit 3

Table with 4 columns: Area (m²), Ceiling Height, Floor, Wall, Window W x H, Total. Values: 6.04, 2.50, 0.00, 0.00, 2.10 x 1.50, 9.13.



Summary of Daylight Factor - DF table with columns: Room, DF, A, W, M, T, Average.

Source: Code for Sustainable Homes, HQE, Miljøbyggnad. The intention is to: promote good daylighting and thereby reduce the need for energy to light the home...

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Level 3 - Living spaces achieve average 2% daylight factor and bedrooms achieve average 1.5% daylight factor.

Level 2 - Living Room /Kitchen achieve average 1.5% daylight factor and bedrooms achieve average 1.5% daylight factor.

Level 1 - No calculation but all living spaces/bedrooms have window aperture area > 10% of floor area.



DAYLIGHT FACTOR CALCULATION (UNIT 3) Living Space Unit 3

Table with 4 columns: Area (m²), Ceiling Height, Floor, Wall, Window W x H, Total. Values: 3.57, 2.50, 0.00, 0.00, 2.10 x 1.50, 7.18.



Summary of Daylight Factor - DF table with columns: Room, DF, A, W, M, T, Average.

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Level 3 - Living spaces achieve average 2% daylight factor and bedrooms achieve average 1.5% daylight factor.

Level 2 - Living Room /Kitchen achieve average 1.5% daylight factor and bedrooms achieve average 1.5% daylight factor.

Level 1 - No calculation but all living spaces/bedrooms have window aperture area > 10% of floor area.

LIVING SPACE UNITS 20A & 20B



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LIVING SPACE UNIT 20C

Table with columns: Job, Section 179(g) Submission, Section 179(g) Submission, Section 179(g) Submission, Rev, Date, By, Description.

GRANGE CLOSE MUIRHEVNAMORE DUNDALK CO.LOUTH

Table with columns: Title, Issue Details, Office Use Only. Title: DAYLIGHT FACTOR CALCULATION SECTION 179(A) SUBMISSION. Issue Details: Drawn B McA, Sheet A1, Scale DFC 001, Date OCTOBER 2023, Rev. C.

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