ALTERATIONS AND BUILDING UPGRADE WORKS DUPLEX - CLASS 2

42 Milson Rd, Cremorne Point - SP 32457

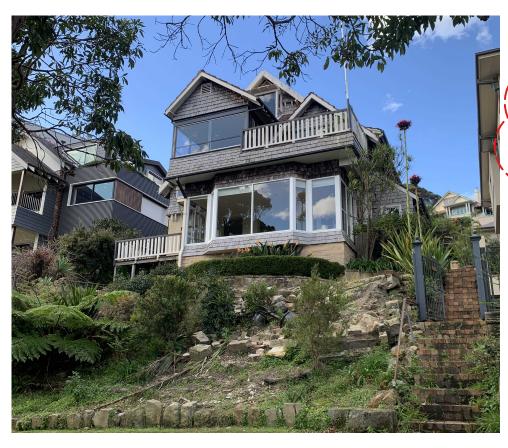
QUATTRO PROJECT NUMBER 22-0711

REVISED FACADE TO ALIGN WITH LOWER GROUND ROOF PROFILE MODIFIED WITH POSTS ADDED AND LOWER BALCONY DECK REINSTATED

ROOF DORMER REMOVED







02 CURRENT PHOTO OF THE BUILDING - 2023 scale 1:NTS



PROPOSED RENDERS FROM CREMORNE RESERVE scale 1:NTS

DEVELOPMENT APPLICATION

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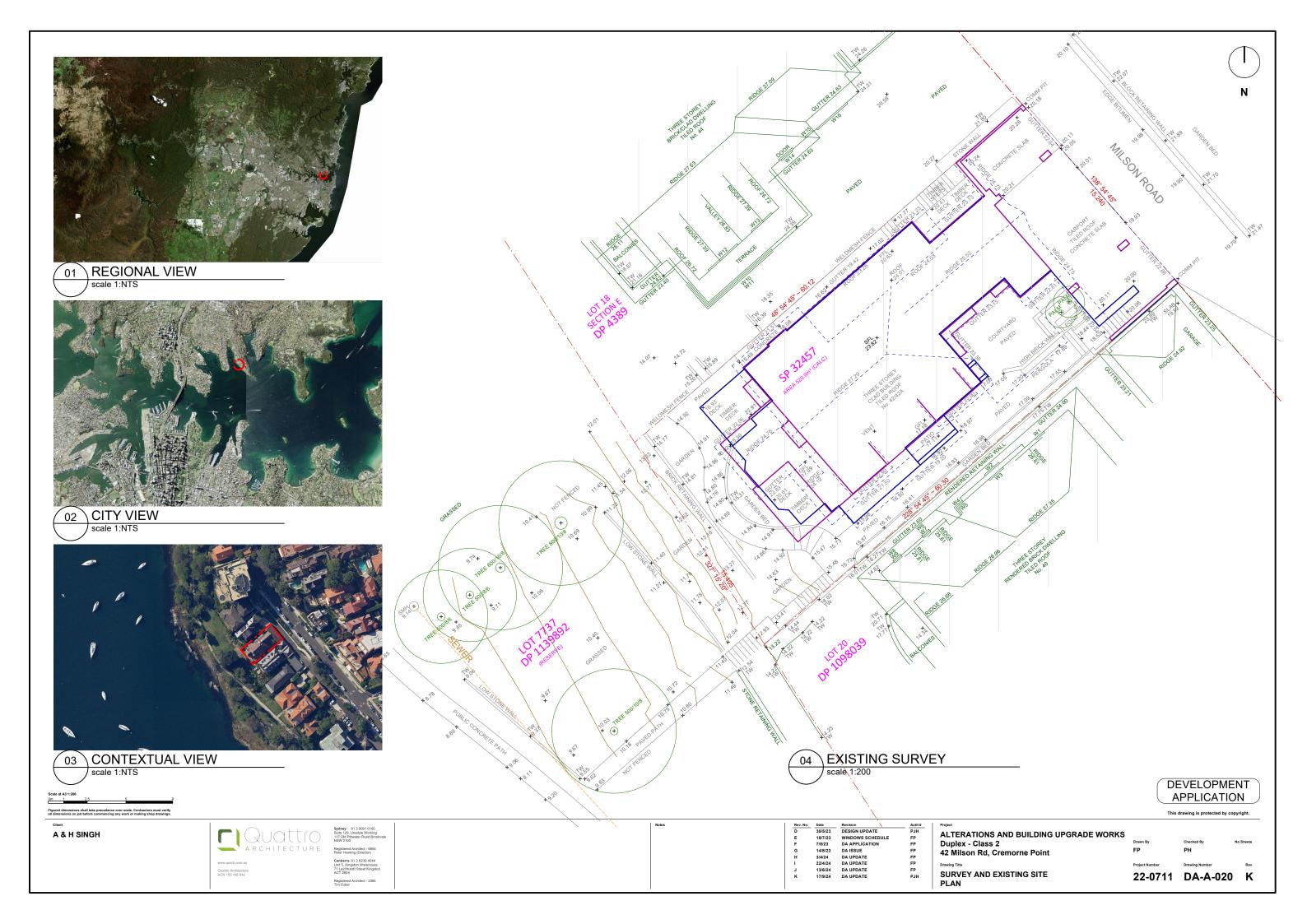
A & H SINGH



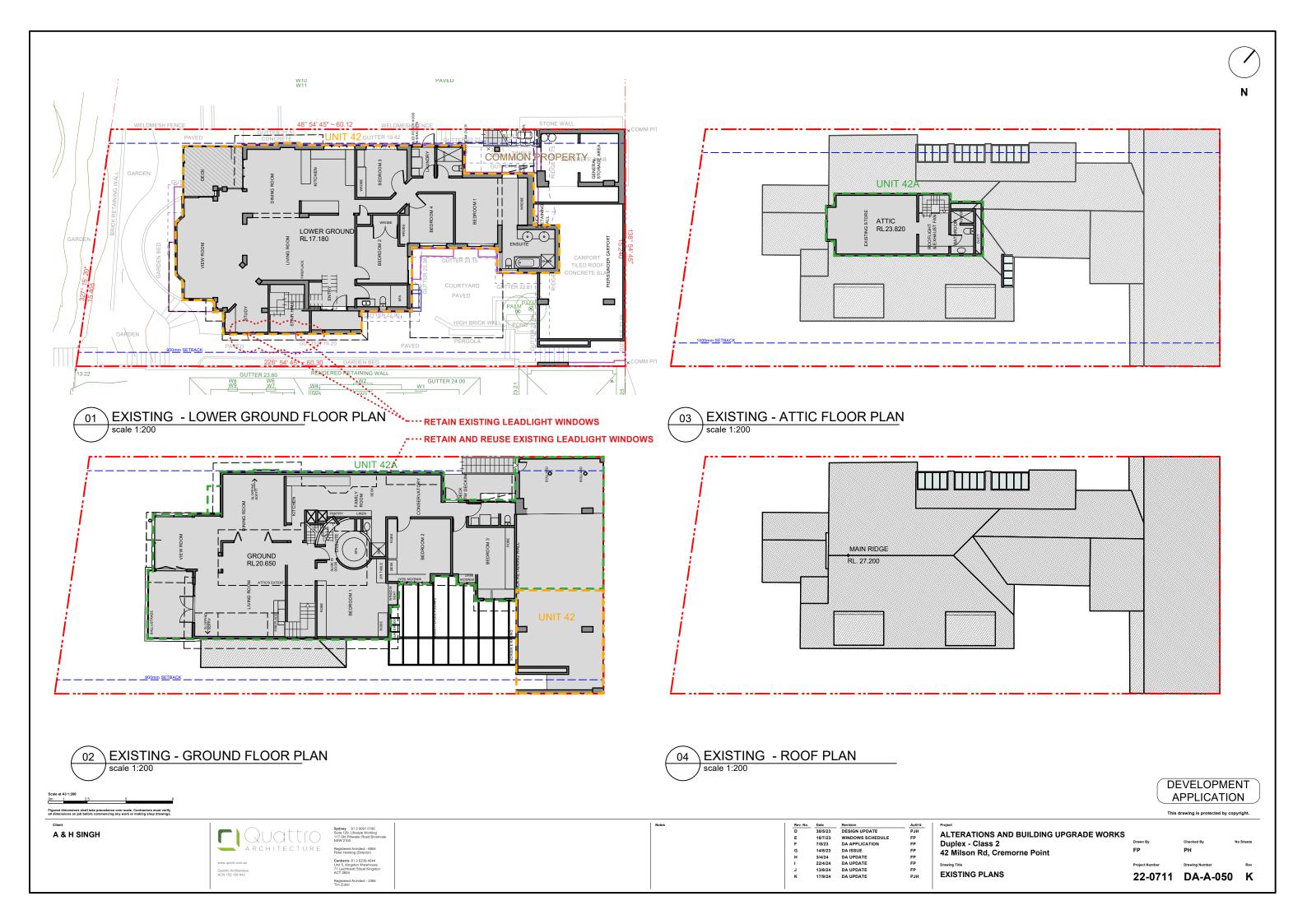
Sydney 61 2 0001 0190
Suite 128, Litestyle Working
Suite 128, Litestyle Working
HIT O'L Pithwater Food Brookvale
HSW 2100
Englistend Architect - 6854
Peeler Hosiking (Director)
Camberrs 61 2 239 4044
Luft S. Kingston Warehouse
11 Leichhardt Street Kingston
ACT 2004
Registend Architect - 2384
Tim Zuber

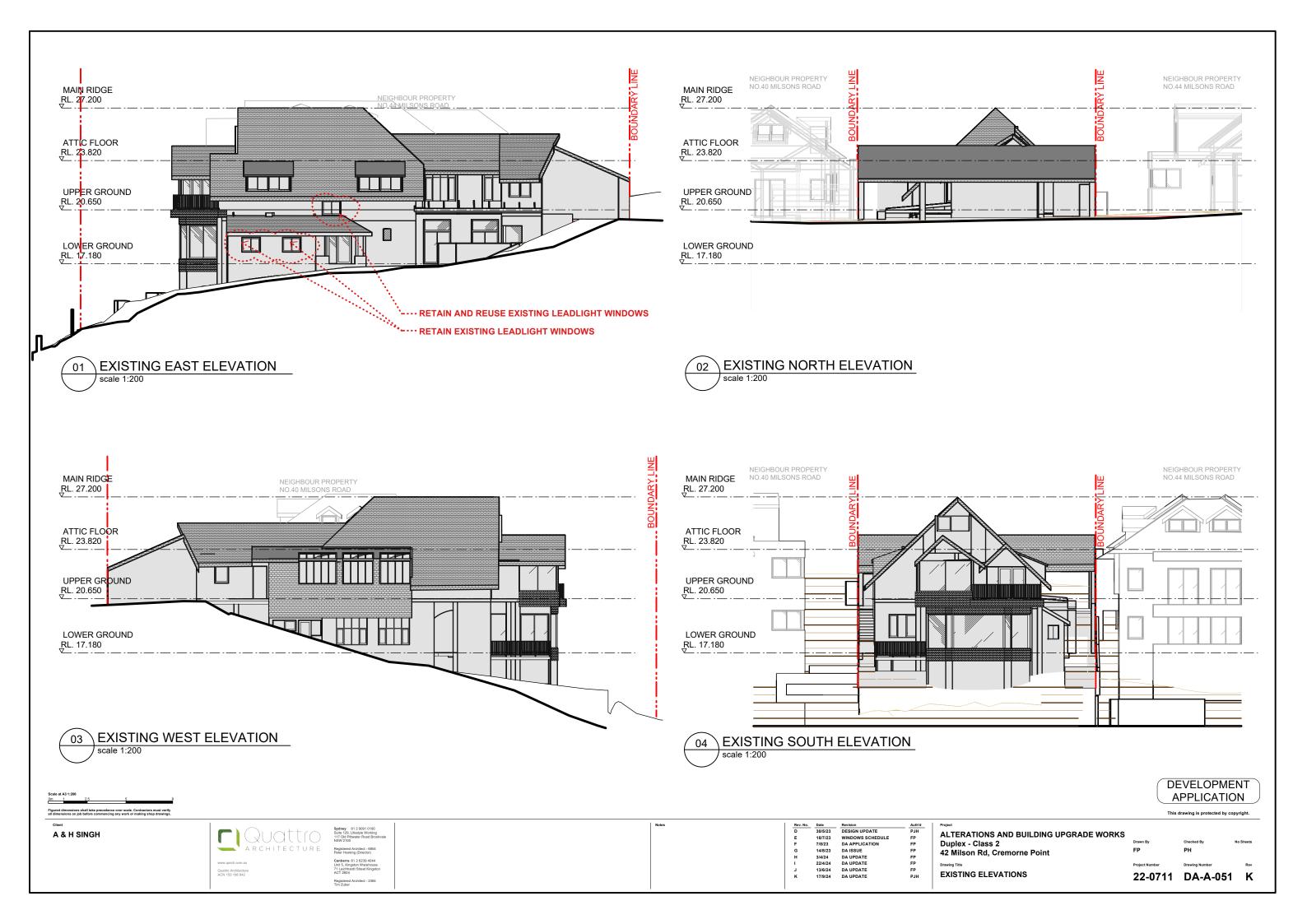
ALTERATIONS AND BUILDING UPGRADE WORKS
Duplex - Class 2
42 Milson Rd, Cremorne Point

Drawing Title
COVER SHEET







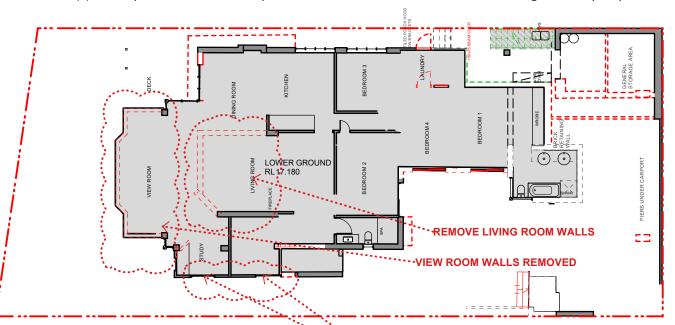


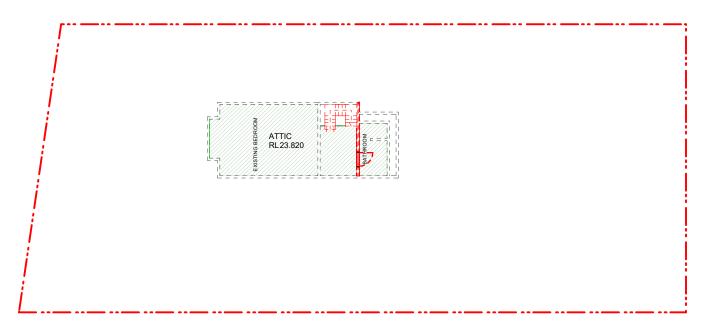
NCC 2023 Class 2 - Required Building Upgrade Works

- 1. The following building elements and their components must be non-combustible:
- (a) External walls and common walls, including all components incorporated in them including the facade covering, framing and insulation.
- 2. Spandrel separation. As the building would be deemed to have a rise in storey of 3 Type A construction requirements would apply.
- 3. Fire separation. The floor separating the respective SOU's are constructed of timber in parts.

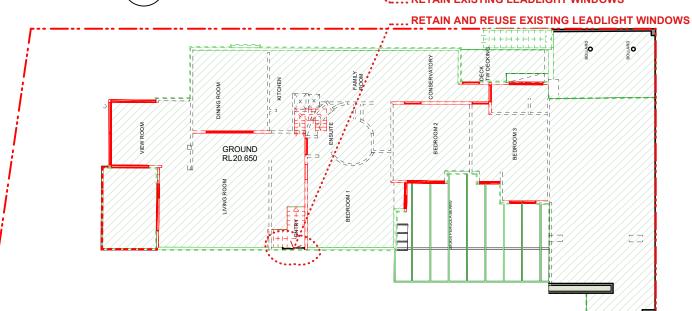
The minimum fire separation (floor) to be achieved and demonstrated between SOU's is an FRL of 90/90/90.

- 4. Protection of openings. Windows and doors located less than 3m from the side property boundary are deemed to be exposed and need to be protected-ie either by way of fire shutter, fire rated windows, wall wetting sprinkler/ drenchers etc.
- 5. Acoustics- consideration will need to be given to acoustic compliancein terms of floor and services stacks etc.
- 6. Accessibility: For a Class 2 building, common areas are to be accessible as follows:
- (a) From a pedestrian entrance required to be accessible to at least 1 floor containing sole-occupancy units and to the entrance doorway of each sole-occupancy unit located on that level.





01 EXISTING & DEMOLITION/RECTIFACTION - LOWER GROUND FLOOR PLAN scale 1:200 RETAIN EXISTING LEADLIGHT WINDOWS



03 EXISTING &DEMOLITION/RECTIFACTION - ATTIC FLOOR PLAN scale 1:200

MAIN RIDGE RL. 27.200

02 EXISTING & DEMOLITION/REC TIFACTION GROUND FLOOR PLAN scale 1:200

04 EXISTING & DEMOLITION/RECTIFACTION - ROOF PLAN scale 1:200

DEVELOPMENT APPLICATION

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Quatto Architecture

Sydney 61 2 9091 0190 Suite 129, Lifestyle Working 117 Old Pithwater Road Broo NSW 2100 Registered Architect - 6854 Peter Hosking (Director) Canberra 61 2 6239 044 Unit 5, Kingston Warehouse 71 Leichhardt Street Kingsto

LEGEND:

RECTIFACTION OF EXISTING

DEMOLITION

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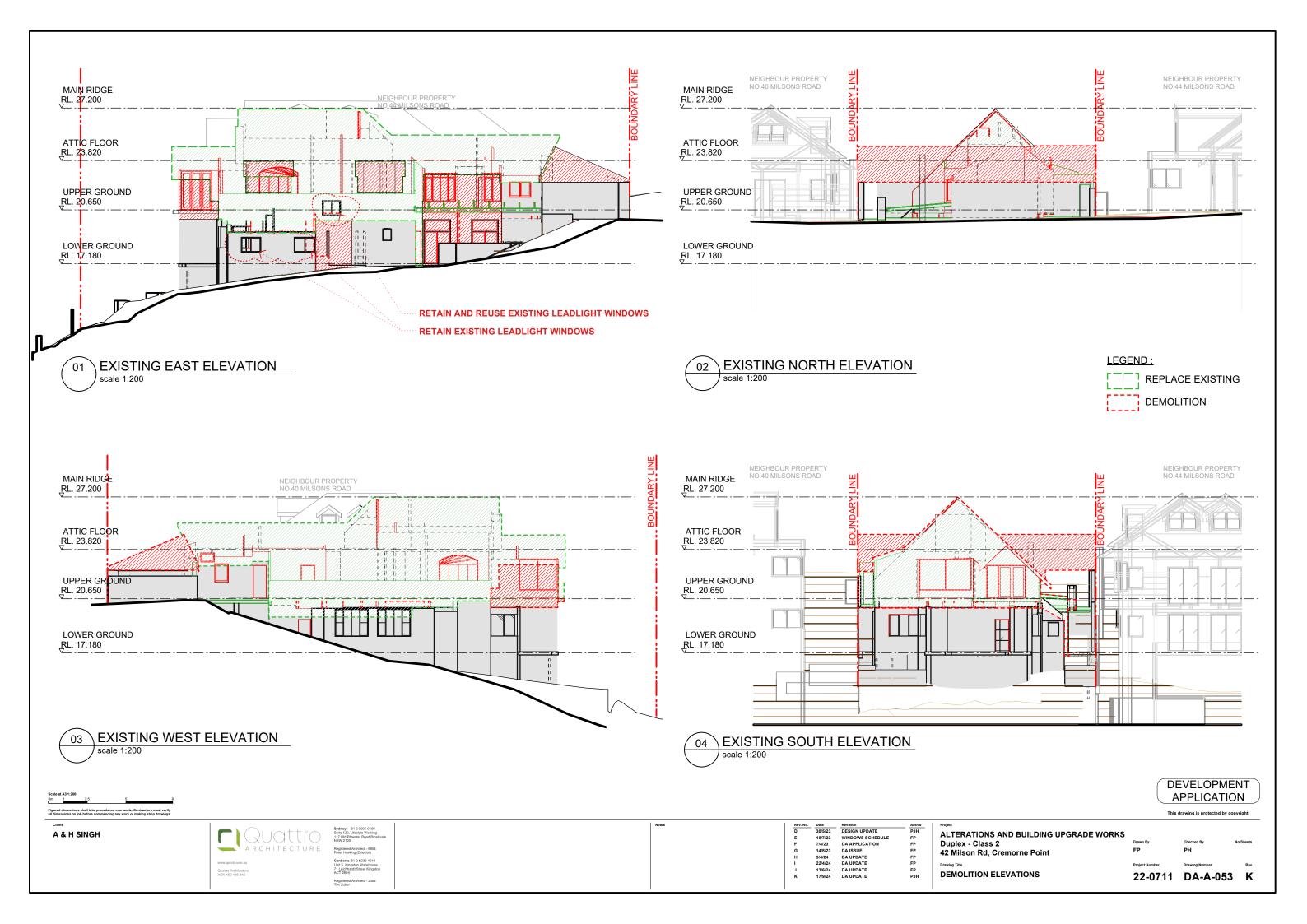
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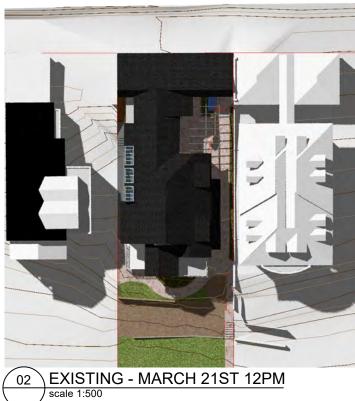
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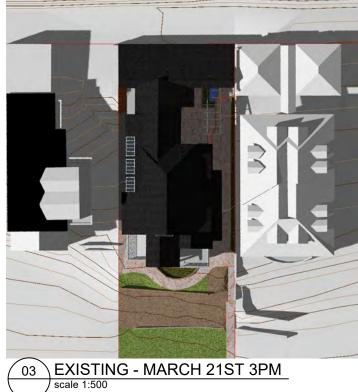
ALTERATIONS AND BUILDING UPGRADE WORKS
Duplex - Class 2
42 Milson Rd, Cremorne Point
Drawing Title
DEMOLITION PLANS











04 PROPOSED - MARCH 21ST 9AM



05 PROPOSED - MARCH 21ST 12PM scale 1:500



06 PROPOSED - MARCH 21ST 3PM

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Quattro Architecture ACN 150 198 842

Registered Architect - 2384 Tim Zuber

ALTERATIONS AND BUILDING UPGRADE WORKS Duplex - Class 2 42 Milson Rd, Cremorne Point

SHADOW DIAGRAMS 21ST MARCH - PLANS

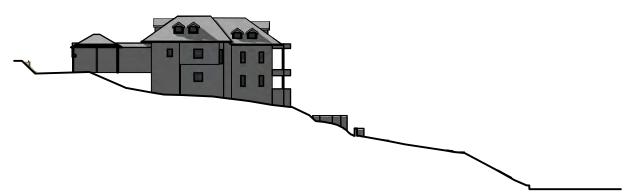
DEVELOPMENT APPLICATION

22-0711 DA-A-070 K

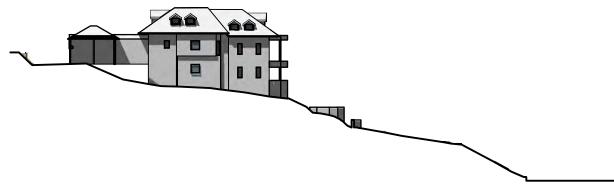








04 PROPOSED - MARCH 21ST 9AM scale 1:500



05 PROPOSED - MARCH 21ST 12PM scale 1:500



PROPOSED - MARCH 21ST 3PM scale 1:500

Scale at A3 1:200
0m 1 2.5 5

igured dimensions shall take precedence over scale. Contractors must verify

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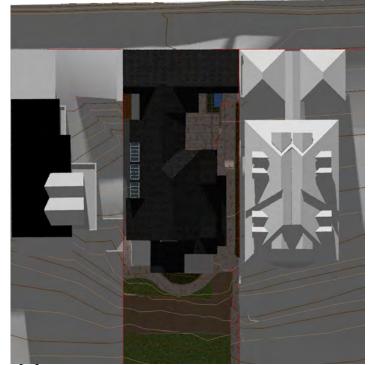
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| ALTERATIONS AND BUILDING UPGRADE WORKS Duplex - Class 2 42 Milson Rd, Cremorne Point | Drawn By |
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| SHADOW DIAGRAMS 21ST MARCH - ELEVATIONS | 22- |

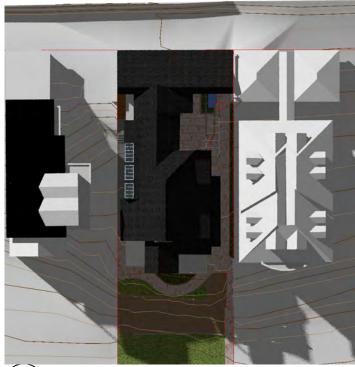
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22-0711 DA-A-071 K





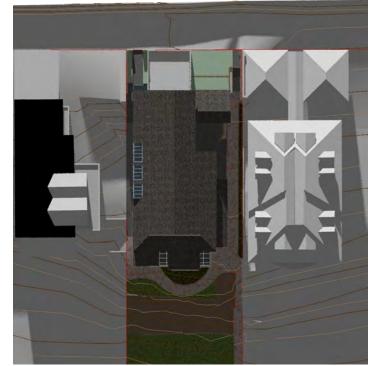
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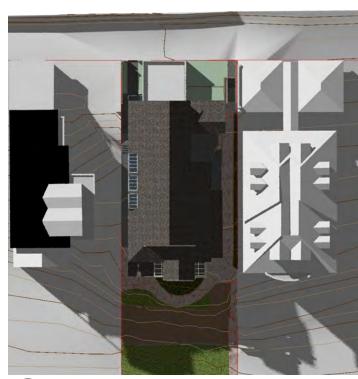
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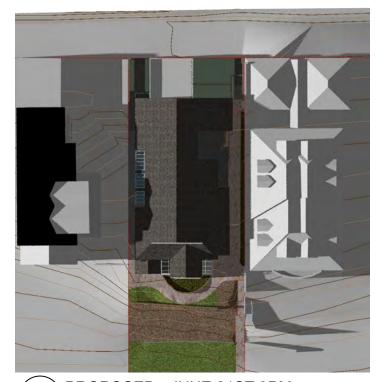
03 EXISTING - JUNE 21ST 3PM scale 1:500



04 PROPOSED - JUNE 21ST 9AM scale 1:500



05 PROPOSED - JUNE 21ST 12PM scale 1:500



06 PROPOSED - JUNE 21ST 3PM scale 1:500

Scale at A3 1:500 0m1 2.5 5 10

Figured dimensions shall take precedence over scale. Contractors must verify

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ACN 190 198 842

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PJH ALT
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ALTERATIONS AND BUILDING UPGRADE WORKS
Duplex - Class 2
42 Milson Rd, Cremorne Point

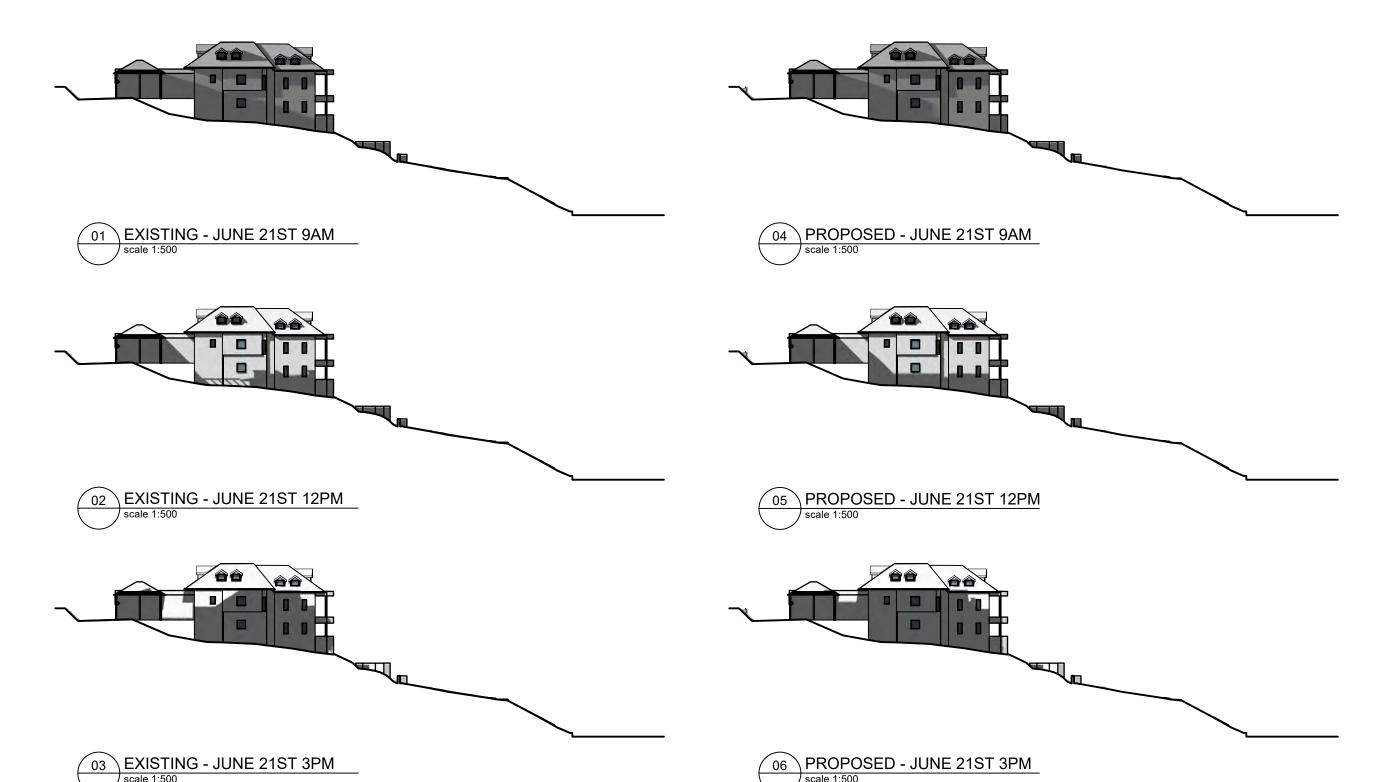
Drawing Title
SHADOW DIAGRAMS
21ST JUNE - PLANS

DEVELOPMENT APPLICATION

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S Drawn By Checked By No Sheets FP PH Project Number Drawing Number Rev 22-0711 DA-A-072 K





gured dimensions shall take precedence over scale. Contractors must verify dimensions on job before commencing any work or making shop drawings.

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1170 Old Pithaster Road Brockvale
1170 Old Pithaster Road Brockvale
Registered Architect - 6854
Peter Hosking (Director)
Camberra 61 2 6239 4044
Unit 5, Kingston Warehouse
71 Liechhardt Street Kingston
ACT 2604
Registered Architect - 2384

Rev. No. Date Revision Author

E 197/23 WINDOWS SCHEDULE FP
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G 14/8/23 DA ISSUE FP
H 3/4/24 DA UPDATE FP
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Project

ALTERATIONS AND BUILDING UPGRADE WORKS

Duplex - Class 2

42 Milson Rd, Cremorne Point

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SHADOW DIAGRAMS
21ST JUNE - ELEVATIONS

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22-0711 DA-A-073 L

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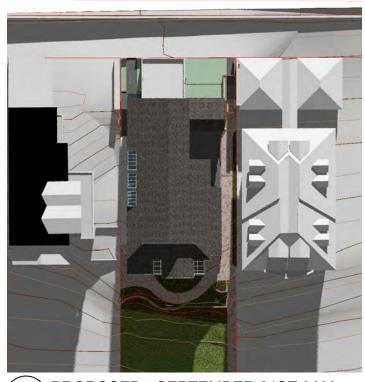




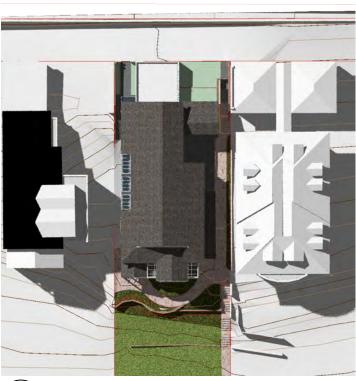




03 EXISTING - SEPTEMBER 21ST 3PM scale 1:500



04 PROPOSED - SEPTEMBER 21ST 9AM scale 1:500



05 PROPOSED - SEPTEMBER 21ST 12PM scale 1:500



06 PROPOSED - SEPTEMBER 21ST 3PM scale 1:500

Scale at A3 1:200

igured dimensions shall take precedence over scale. Contractors must verify

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ALTERATIONS AND BUILDING UPGRADE WORKS
Duplex - Class 2
42 Milson Rd, Cremorne Point

SHADOW DIAGRAMS
21ST SEPTEMBER - PLANS

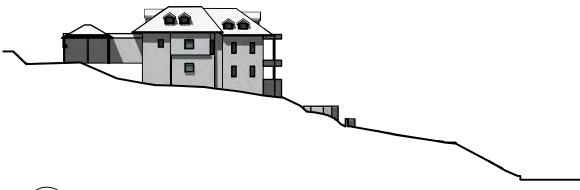
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DEVELOPMENT APPLICATION

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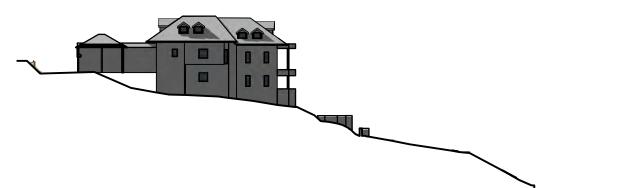












04 PROPOSED - SEPTEMBER 21ST 9AM



PROPOSED - SEPTEMBER 21ST 3PM scale 1:500

scale 1:500

Scale at A3 1:200
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igured dimensions shall take precedence over scale. Contractors must verify Il dimensions on job before commencing any work or making shop drawings.

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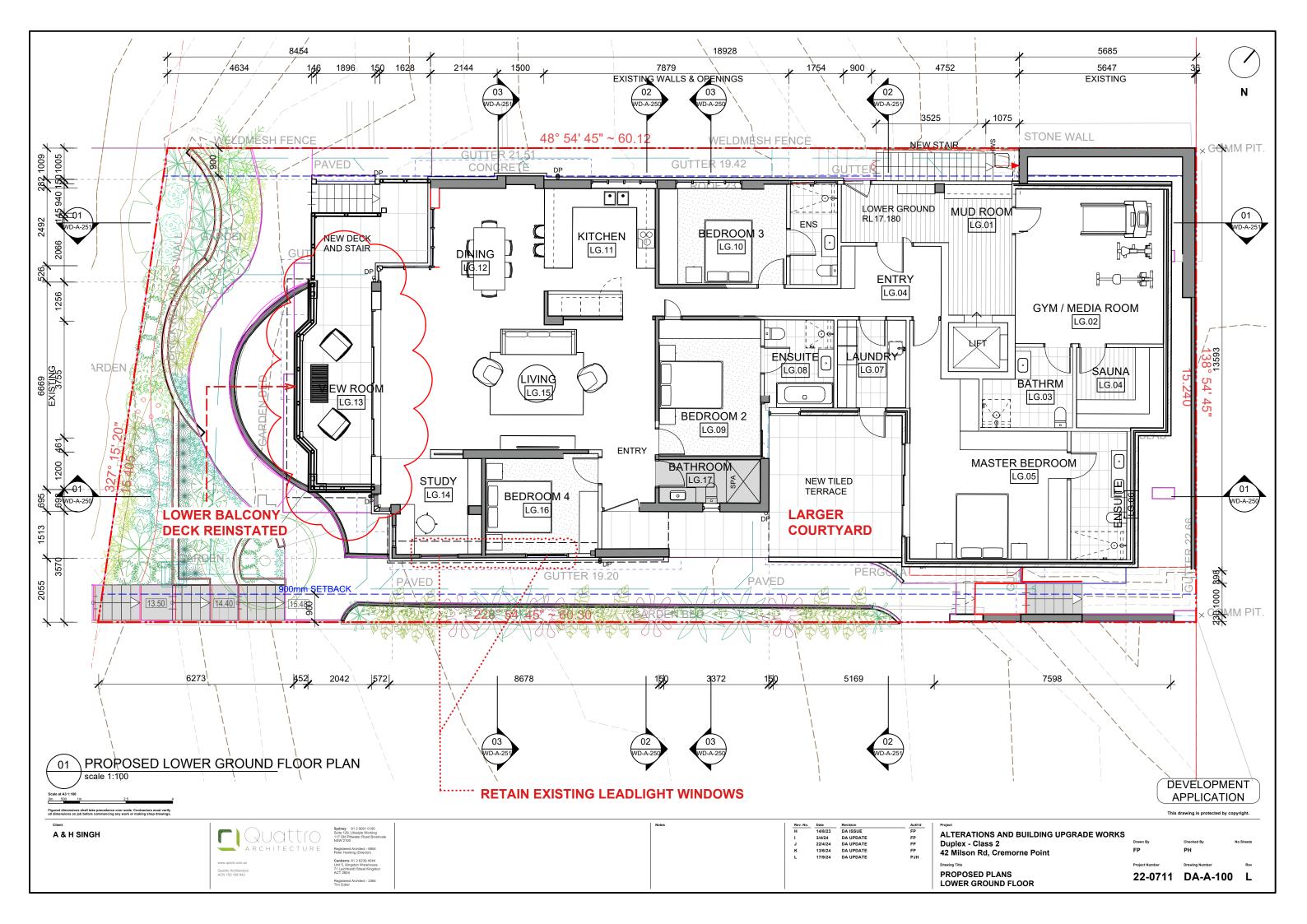
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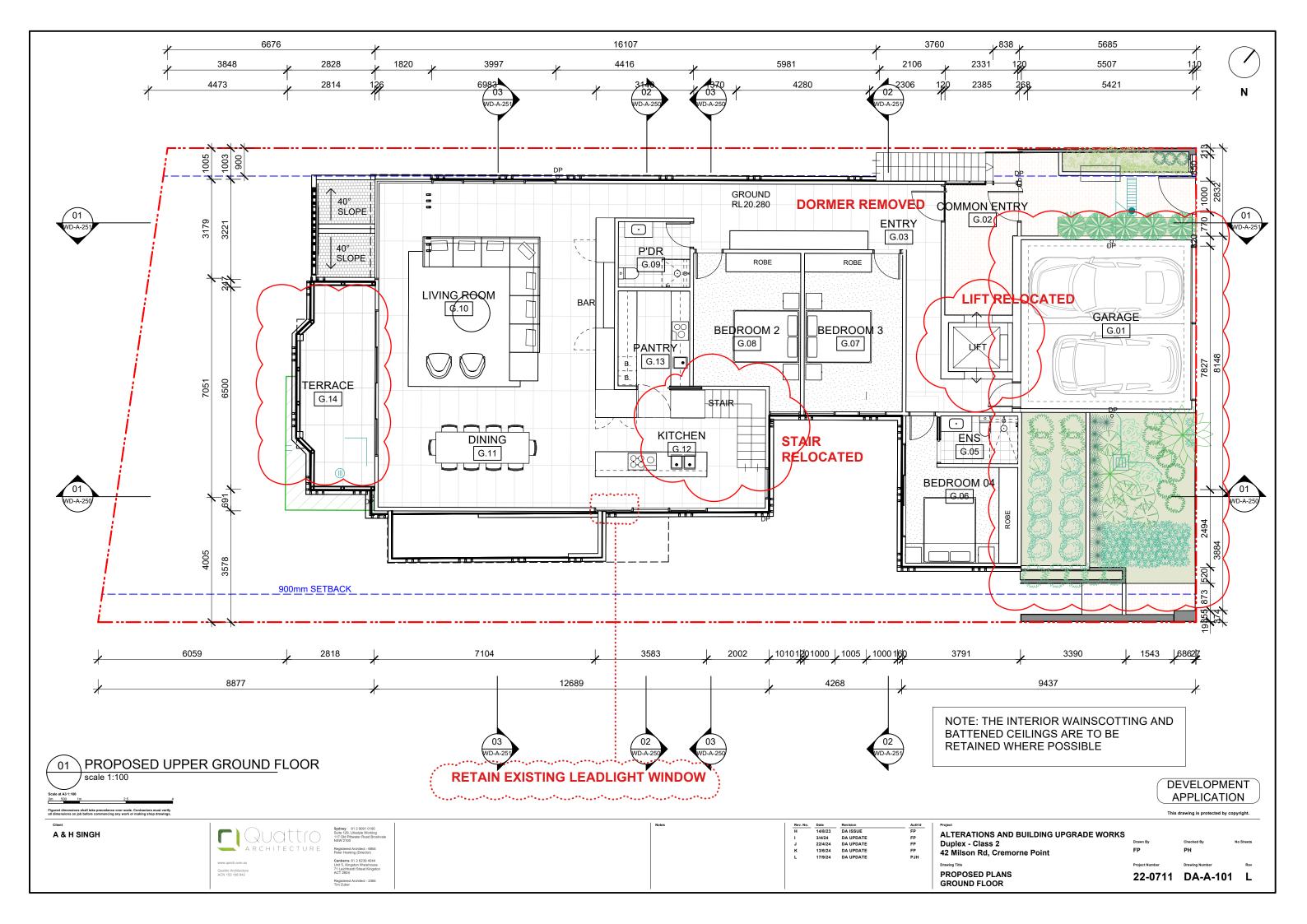
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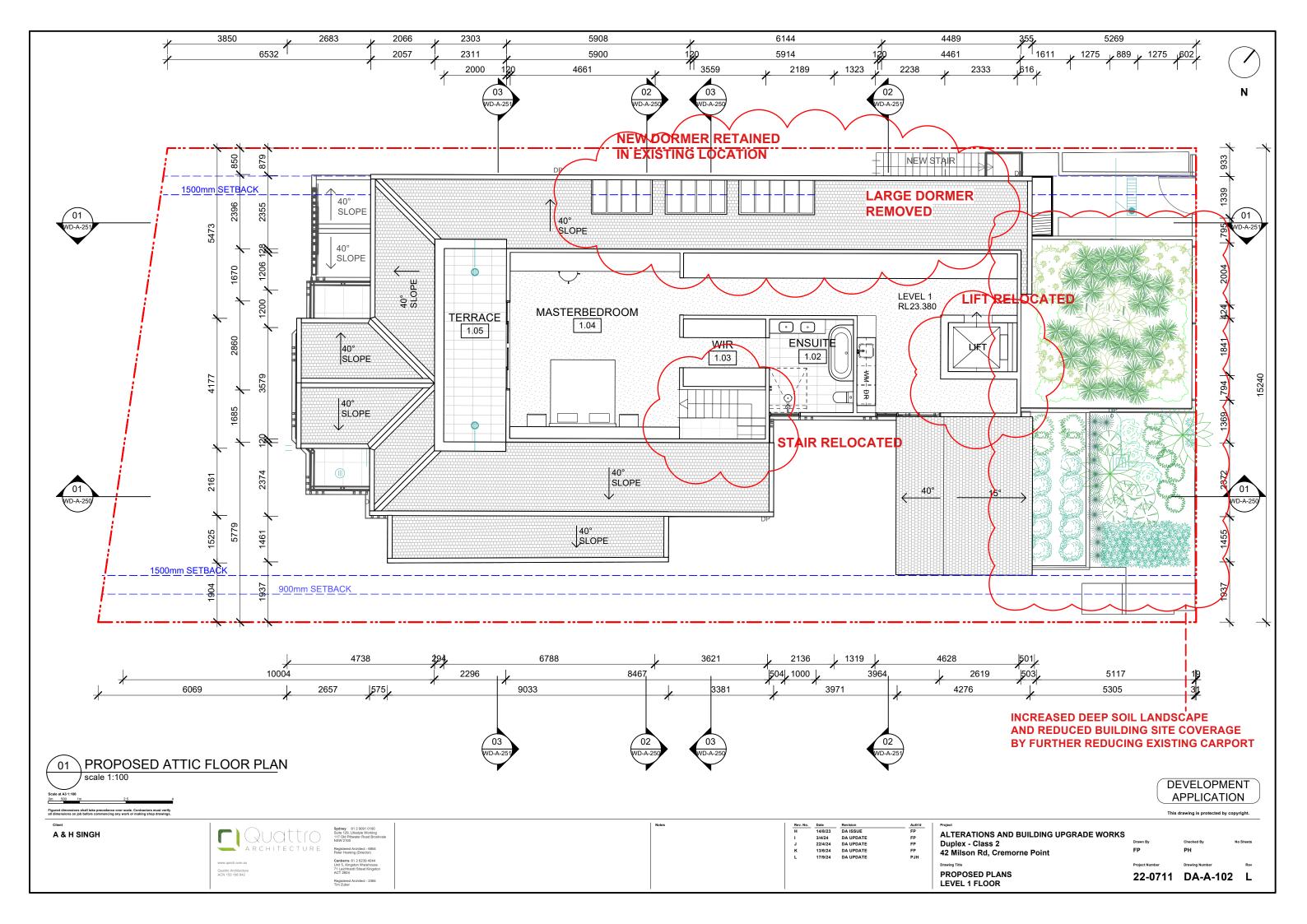
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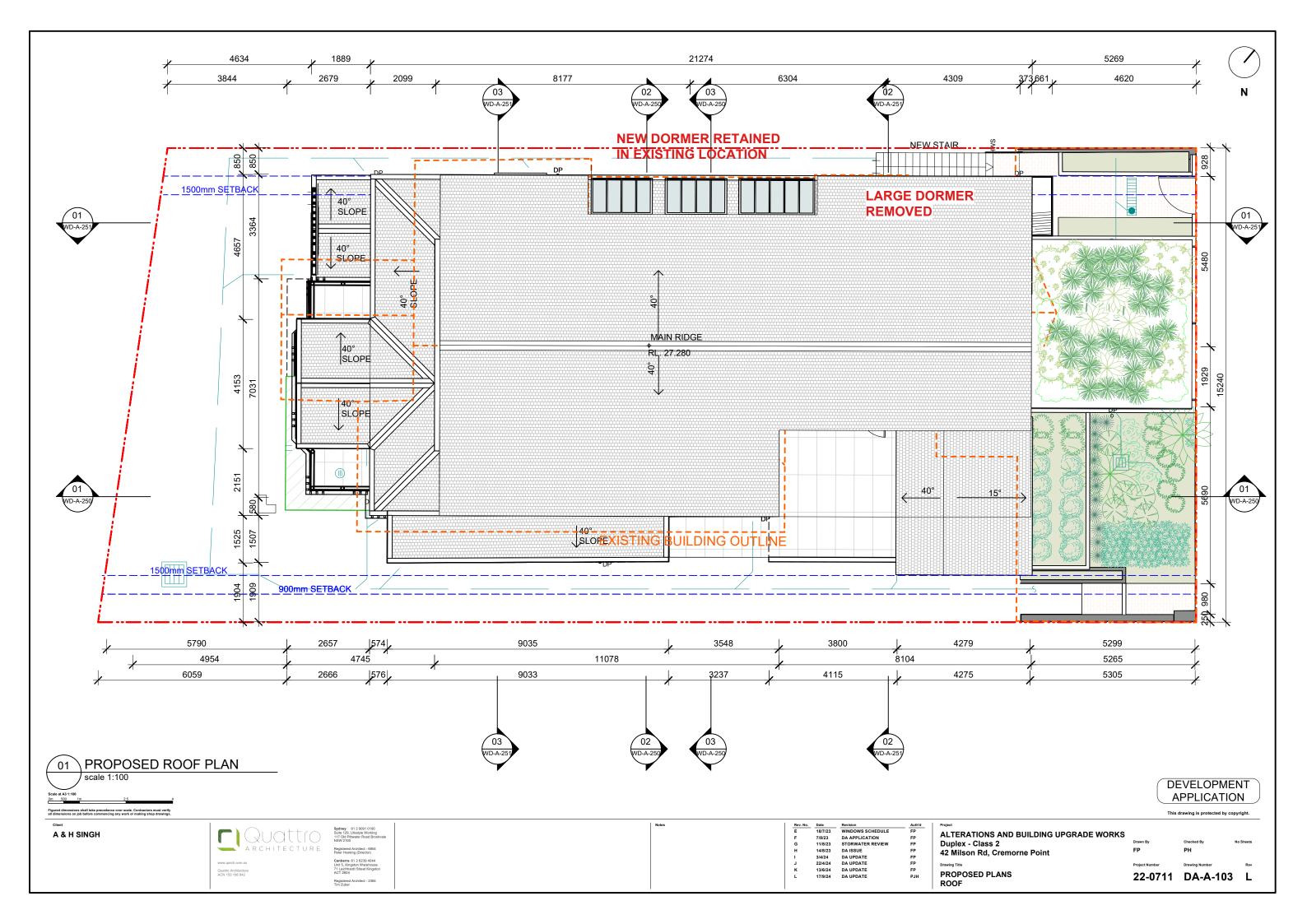
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SHADOW DIAGRAMS
21ST SEPTEMBER - ELEVATIONS

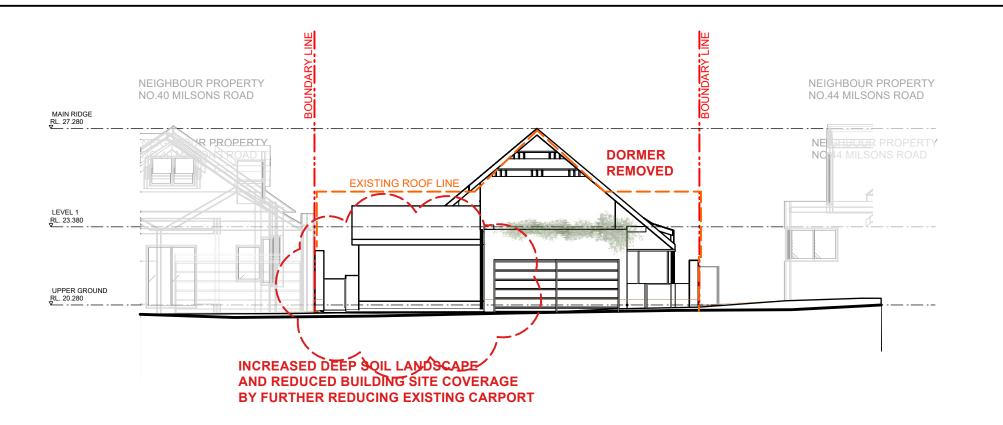
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PROPOSED NORTH ELEVATION



| Rev. No. | Date | Revision | Auth'c |
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| Α | 17/11/22 | PRELIMINARY ISSUE | FP |
| В | 8/12/22 | COLUMNS UPDATE | FP |
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| E | 18/7/23 | WINDOWS SCHEDULE | FP |
| F | 7/8/23 | DA APPLICATION | FP |
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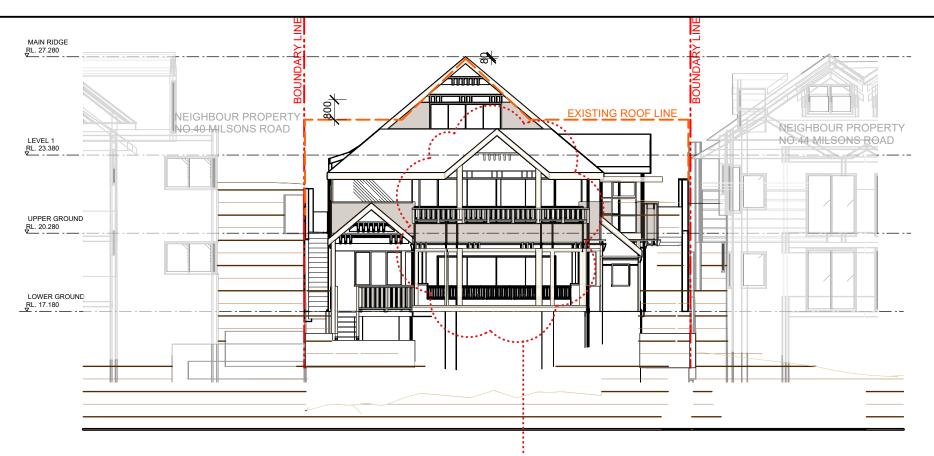
ALTERATIONS AND BUILDING UPGRADE WORKS Duplex - Class 2 42 Milson Rd, Cremorne Point

PROPOSED NORTH ELEVATION



22-0711 DA-A-200 L





PROPOSED SOUTH ELEVATION

REVISED FACADE TO ALIGN WITH LOWER GROUND ROOF PROFILE MODIFIED WITH POSTS ADDED AND LOWER BALCONY DECK REINSTATED



| Rev. No. | Date | Revision | Auth'd |
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| A | 17/11/22 | PRELIMINARY ISSUE | FP |
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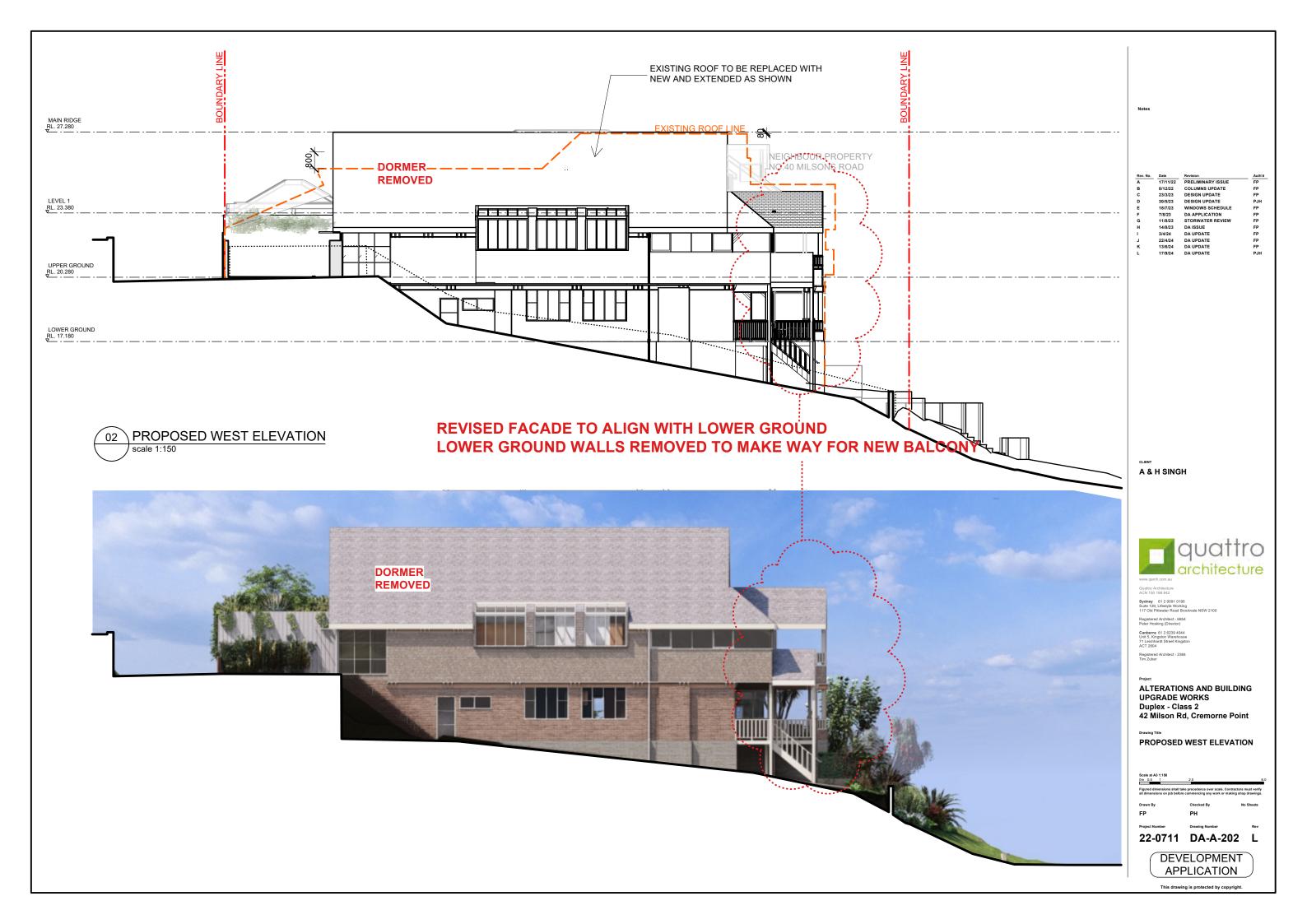
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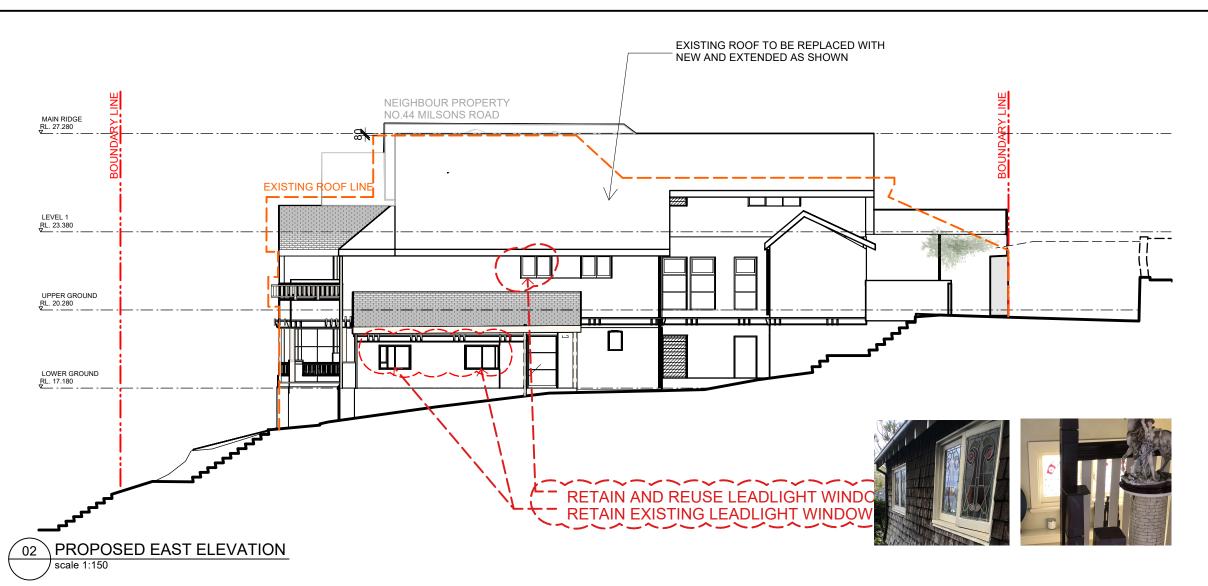


ALTERATIONS AND BUILDING UPGRADE WORKS Duplex - Class 2 42 Milson Rd, Cremorne Point

Scale at A3 1:150

PROPOSED SOUTH ELEVATION







Note

| Rev. No. | Date | Revision | Auth'd |
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| A | 17/11/22 | PRELIMINARY ISSUE | FP |
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Quattro Architec ACN 150 198 84

> Sydney 61 2 9091 0190 Suite 129, Lifestyle Working 117 Old Pittwater Road Brookvale NSW 2

Registered Architect - 6854 Peter Hosking (Director)

Canberra 61 2 6239 4044 Unit 5, Kingston Warehouse

Registered Architect - 23

Project

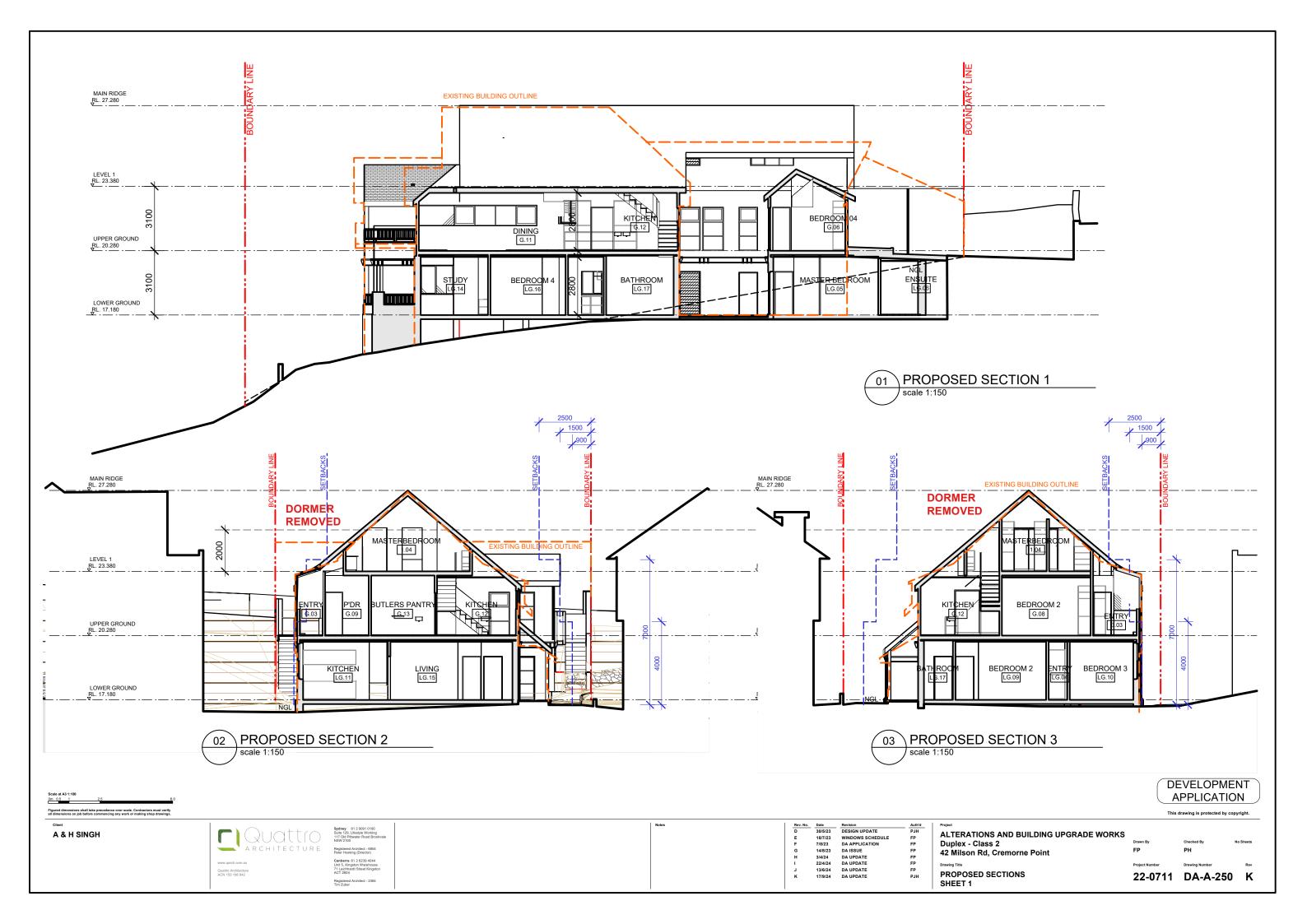
ALTERATIONS AND BUILDING UPGRADE WORKS Duplex - Class 2 42 Milson Rd, Cremorne Point

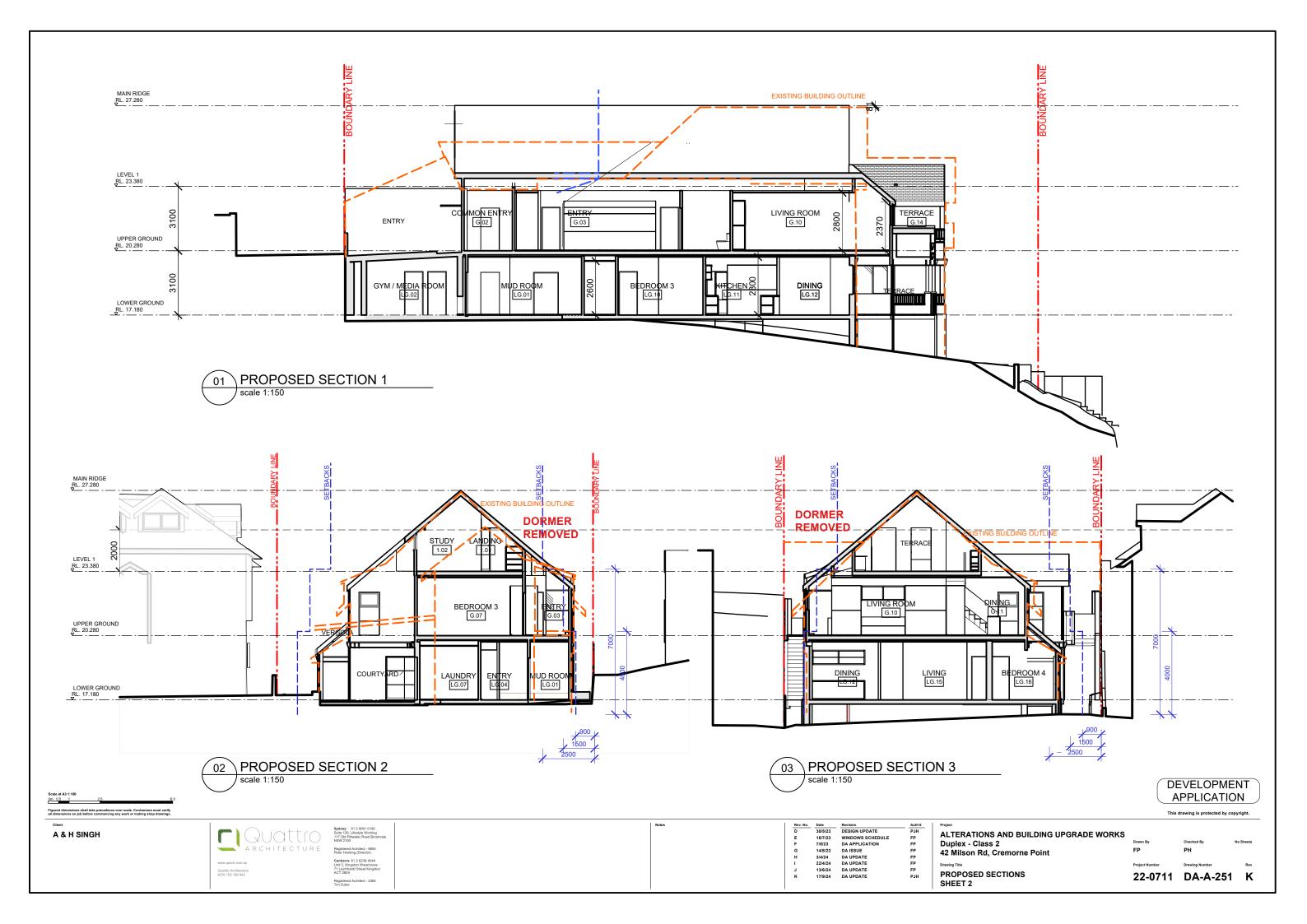
PROPOSED EAST ELEVATION

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| Figured dimensions shall take precedence over scale. Contractors must vall dimensions on job before commencing any work or making shop draw |

DEVELOPMENT APPLICATION

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EXISTING BUILDING

MIX OF DIFFERENT ARCHITECTURAL LANGUAGES, ARTS AND CRAFTS + RENOVATIONS = PATCHWORK

VOLUMES ARE NOT COHERENT

IMPOSING FACADE ONTO CREMORNE RESERVE, LARGE OPENINGS, LACK OF PRIVACY AND UNITY BETWEEN THE LEVELS

NOT ACCESSIBLE

NUMEROUS NCC SHORTFALLS ON COMPLIANCE



CURRENT PHOTO FROM CREMORNE RESERVE - 2023



PROPOSED BUILDING

SIMILAR BULK AND SCALE AS EXISTING ORIGINAL HOUSE

IMPROVED SITE COVERAGE BY 10%

PITCHED ROOF FORM AND USE OF TIMBER SHINGLES TO CONSERVED ORGINAL DESIGN AND PERIOD ARCHITECTURE

TYPICALLY 'ARTS AND CRAFTS' DETAILS REINSERTED - ROOF, SHINGLES , BALUSTRADES, BRICK ADN STANDSTONE FOUNDATION.

BUILDING SETBACK FURTHER FROM CREMORNE RESERVE REDUCED IMPACT

UPPER GROUND OPENINGS ONTO TERRACE NOT VISIBLE FROM THE RESERVE = PRIVACY

TILES ON THE ROOF TO MATCH WITH EXISTING

EXISTING LANDSCAPING CONSERVED, TYPICAL SANDSTONE KEPT AS LOWER GROUND UNDER

FINISHES INKEEPING WITH EZISITHNG BUILDING - 'ARTS AND CRAFTST AND DETAILS HARMONISED - REFER TO DRAWING 403 - EXTERNAL

--- EXISTING BUILDING SCALE COMPARISON



PHOTOMONTAGE - FROM CREMORNE RESERVE

DEVELOPMENT APPLICATION

scale 1:NTS

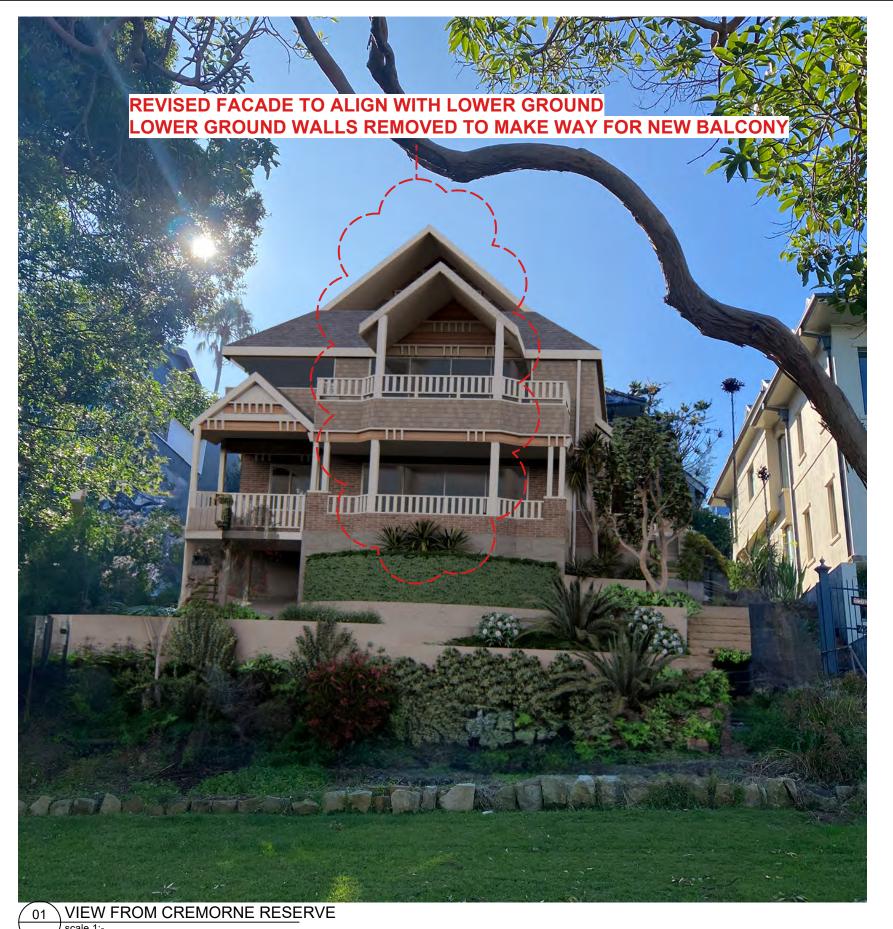
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PHOTOMONTAGE OF THE PROPOSED BUILDING - OVERVIEW

DESIGN UPDATE
WINDOWS SCHEE
DA APPLICATION
DA ISSUE
DA UPDATE
DA UPDATE
DA UPDATE
DA UPDATE

ALTERATIONS AND BUILDING UPGRADE WORKS Duplex - Class 2 42 Milson Rd, Cremorne Point

BULK AND SCALE 22-0711 DA-A-401 H **PHOTOMONTAGES**



02 VIEW FROM THE TOP OF MILSON ROAD



03 VIEW FROM RESERVE WALKWAY

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ARCHITECTURE

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Qualito Architecture

Suite 129, Litestyle Working.
117 Old Pilkwater Road Brookvale
NSW 2100
Registered Architect - 6854
Peter Hosking (Director)
Canberra 61 2 6239 4044
Unit S, Kingston Warehouse
71 Leichhardt Street Kingston
ACT 2804
Registered Architect - 2384
Tim Zuber

 Rev. No.
 Date
 Revision
 Auth'd

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 DESIGN UPDATE
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 DESIGN UPDATE
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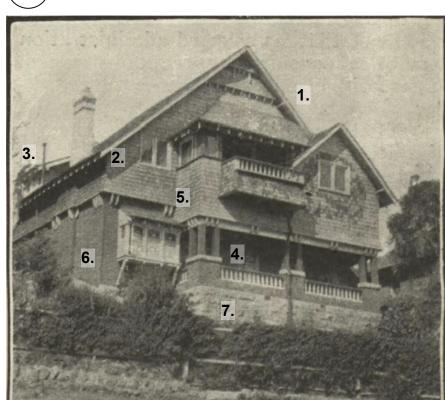
ALTERATIONS AND BUILDING UPGRADE WORKS
Duplex - Class 2
42 Milson Rd, Cremorne Point

PROPOSED RENDERS

 Project Number
 Drawing Number
 Rev

 22-0711
 DA-A-402
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EXISTING IMAGE OF THE BUILDING FROM 1919







PROPOSED RENDERS FROM CREMORNE RESERVE



| DEFINED ASYMETRY | 1. | MESSY FACADE MIX OF ORIGINAL AND MODERN ELEMENTS | 1. | ASYMMETRY REINTRODUCED, WITH THREE HIGH PITCH GABLE ROOF DISTRIBUTED OVER THE LEVELS |
|--|----|---|----|--|
| HIGH PITCHED ROOF, DEFINED ROOF LINE WITH OVERHANG AND EXPOSED RAFTERS | 2. | LOSS OF EXPOSED RAFTERS DETAILS MISSING CHARACTER | 2. | DEFINED ROOF LINE WITH OVERHANG, WHITE FASCIA, AND EXPOSED RAFTERS AS PER ORIGINAL DESIGN |
| DORMER WINDOW ON WESTERN ELEVATION, PROPORTION OF OPENINGS | 3. | NO COHERENCE BETWEEN MODERN WINDOWS, DORMER, BOW WINDOWS, CORNER OPENINGS | 3. | RE-PROPORTIONED OPENINGS, HORIZONTAL WINDOWS, BIGGER BALCONY OPENINGS SETBACK FROM FACADE - LESS VISIBLE FROM RESERVE AND TO BE CONSISTENT WITH ORIGINAL 'ART AND CRAFTS' DESIGN |
| BALLUSTRADE AND COLUMN DETAILS | 4. | SPECIFIC FEDERATION ARTS AND CRAFTS DETAILS MISSING | 4. | MAINTAIN AND REINSTATE BALUSTRADE AND COLUMN DETAILS, WHITE CONTRASTING COLOUR |
| FACADE SHINGLES FROM UPPER GROUND LEVEL, BELL EDGE | 5. | USED AND GREYED FACADE SHINGLES ALL AROUND, BELL EDGE | 5. | MAINTAIN FACADE SHINGLES REINTRODUCED TO DEFINE FACADE ELEMENTS |
| RENDERED WALLS | 6. | YELLOW RENDERED WALLS | 6. | BRICK REINTRODUCED TO CONTRAST WITH FACADE SHINGLES, AND TIMBER HORIZONTAL DETAIL ELEMENTS |
| FOUNDATION SANDSTONE | 7. | FOUNDATION SANDSTONE | 7. | MAINTAIN FOUNDATION SANDSTONE, LANDSCAPING RETAINING WALLS DEVELOPMENT APPLICATION |

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Quattro Architecture ACN 150 198 842

Registered Architect - 2384 Tim Zuber

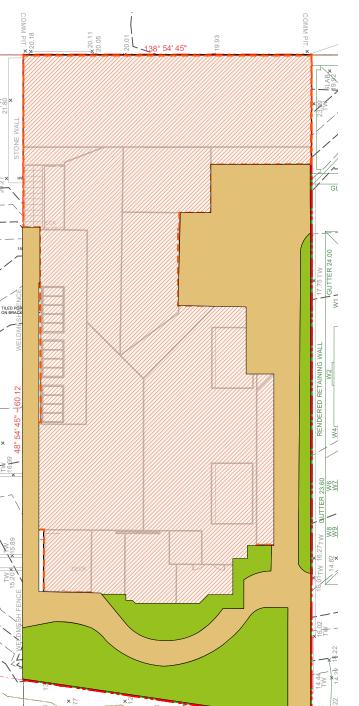
ALTERATIONS AND BUILDING UPGRADE WORKS Duplex - Class 2 42 Milson Rd, Cremorne Point

YEARS

THE BUILDING THROUGH THE 22-0711 DA-A-403 H



N



EXISTING BUILDING FOOTPRINT

PROPOSED BUILDING FOOTPRINT

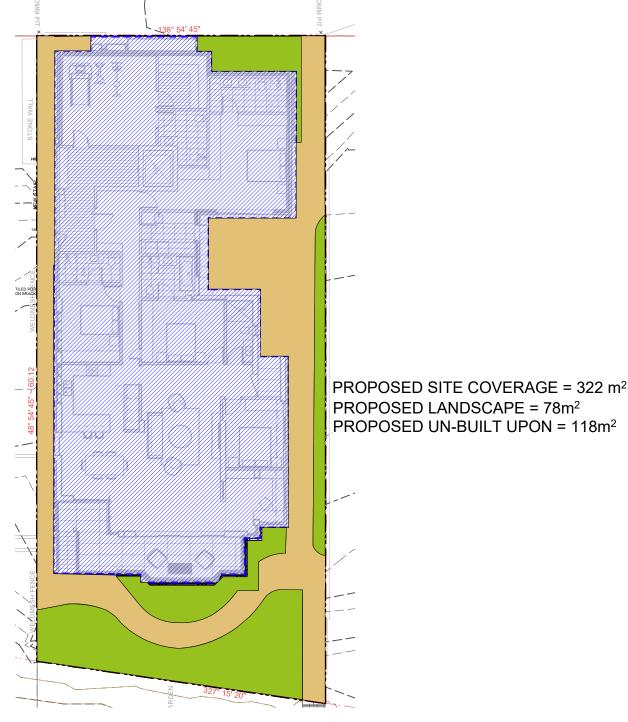
SITE AREA = 521m²

EXISTING SITE COVERAGE = 66%

PROPOSED SITE COVERAGE = 61%

NOTE: The proposed design provides 5% overall site coverage improvement from the existing building

EXISTING SITE COVERAGE = 344 m² EXISTING LANDSCAPE = 68m² EXISTING UN-BUILT UPON = 120m²



PROPOSED SITE COVERAGE
scale 1:200

Scale at A3 1:200
0m 1 2.5 5 8

A & H SINGH

A R C H I T E C T U R E

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Quattic Architecture

EXISTING SITE COVERAGE

Sydney 81 2 9091 0190 Sale 122 Litesjie Working 117 Ole Pittester Road Brookvale NSW 2101 Registered Architect - 6854 Peter Hosking (Director) Cambers 61 2 6229 4044 Liuf S. Kingston Weshouse 71 Liechhardt Street Kingston ACT 2004 Registered Architect - 2384 ALTERATIONS AND BUILDING UPGRADE WORKS
Duplex - Class 2
42 Milson Rd, Cremorne Point

SITE COVERAGE

rawn By Checked By
P PH

22-0711 DA-A-405 F



01 CREMORNE RESERVE FRONT ELEVATION scale 1:-

FEDERATION 'ARTS AND CRAFTS' FINISHES REINTRODUCED WITH A 'MODERN TOUCH'

ROOFS: SLATE GREY TO MATCH WITH NEIGHBOURING PROPERTIES, TIMBER GABLES WITH EXPOSED RAFTERS DETAILS.
WALLS: FACE RED BRICK AND BLACK SQUARED SHINGLES.
FOUNDATIONS AND RETAINING WALLS: SANSTONE



EF.R.01

NATURAL SLATE ROOF TO MATCH CHARACTERISTIC RUSTICATED FINISH USED ON FEDERATION ARTS AND CRASTS STYLE DWELLING

EF.CB.01

OFF WHITE FASCIA, GUTTERS, BALLUSTRADES , WINDOWS



(EF.TM.01)

TIMBER LOOK FACADE ELEMENT WITH BLACK DETAILS



EF.SH.01

FACADE SHINGLES



EF.BR.01

RED BRICK TO WALLS



(EF.SS.01)

SPLIT FACED SANDSTONE TO MATCH CHARACTERISTIC RUSTICATED FINISH USED ON FEDERATION ARTS AND CRASTS STYLE DWELLING

02 FINISHES LEGEND

DEVELOPMENT APPLICATION

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amenators on job before commencing any work or making and or

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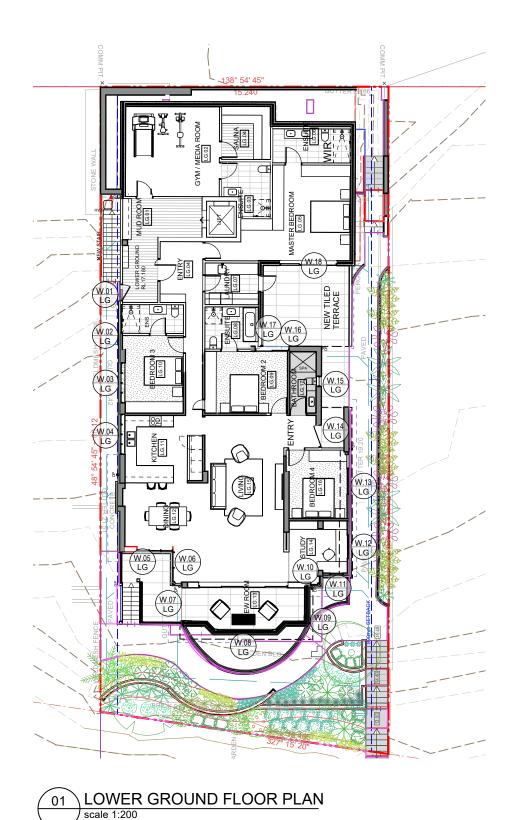


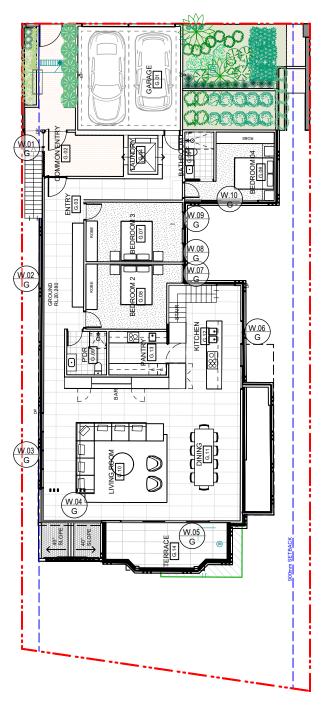
Sydney 61 2 9991 01190
Satile 129, Lifestyle Working
117 05 Phawier Road Brookvale
NSW 2100
Registered Architect - 6854
Peter Hosking (Director)
Canberra 61 2 6239 4044
Unit 6, Kingston Warehouse
71 Loichhard Street Kingston
Act 1 2604
Registered Architect - 2384
Tim Zuber

| Rev. No. | Date | Revision | Authorized |

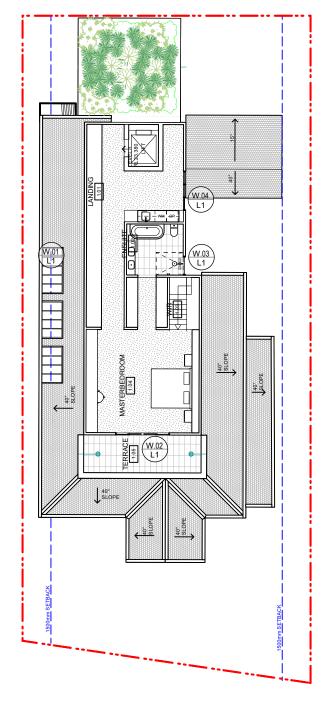
ALTERATIONS AND BUILDING UPGRADE WORKS
Duplex - Class 2
42 Milson Rd, Cremorne Point
Drawing Title
EXTERIOR FINISHES

Project Number Prawing Number Rev









03 LEVEL 1 PLAN scale 1:200

Figured dimensions shall take precedence over scale. Contractors must

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Quatto Achinecture
ACN 150 189 842

| Rav. No. | Date | Revision | Author
| A | 1877/23 | WINDOWS SCHEDULE | FP |
| B | 7/8/23 | DA APPLICATION | FP |
| C | 14/8/23 | DA ISSUE | FP |
| D | 3/4/24 | DA UPDATE | FP |
| F | 17/9/24 | DA UPDATE | PJH |
| F | 17/9/24 | DA UPDATE | PJH |
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ALTERATIONS AND BUILDING UPGRADE WORKS
Duplex - Class 2
42 Milson Rd, Cremorne Point

42 Milson Rd, Cremorne Point

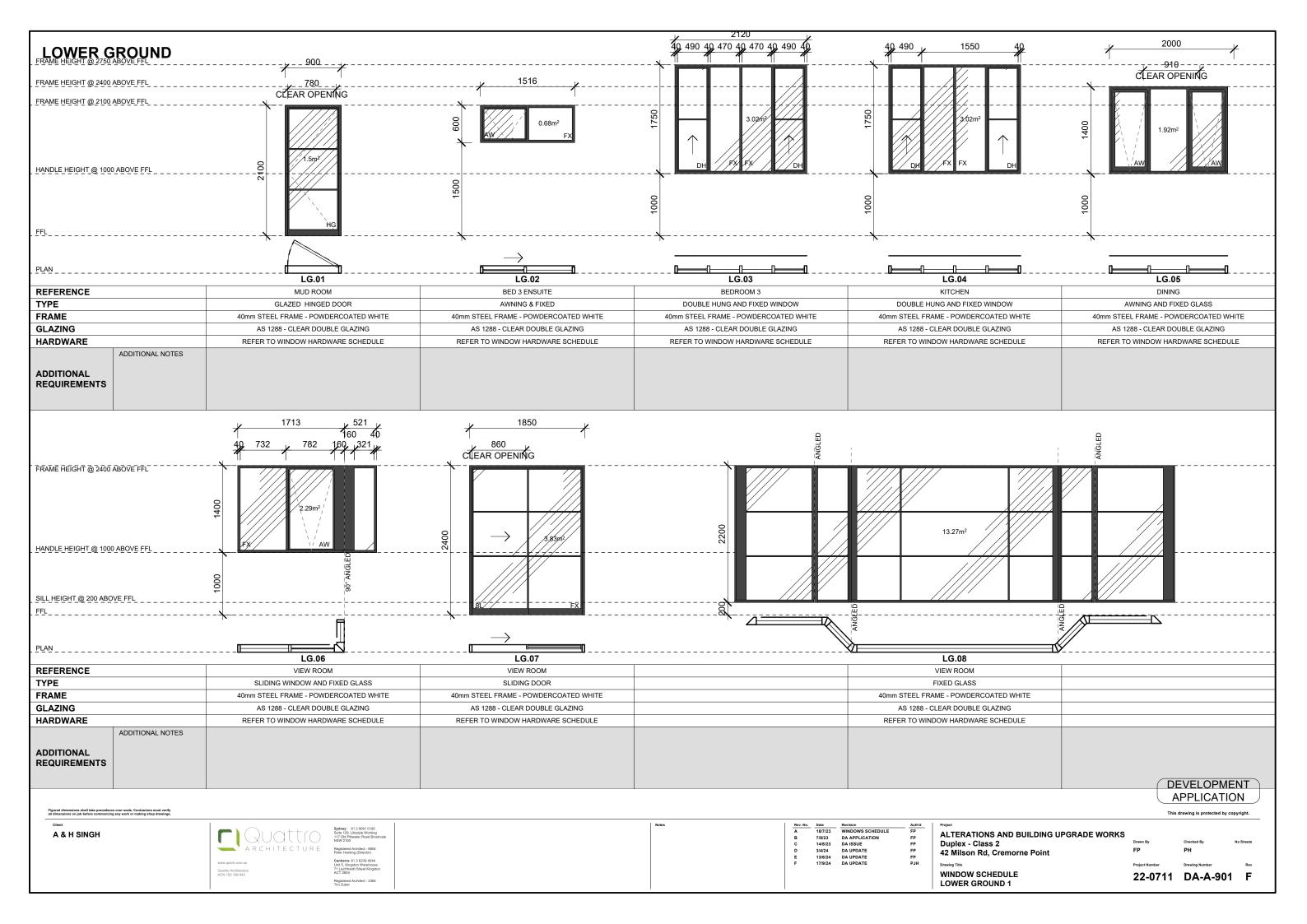
Drawing Title

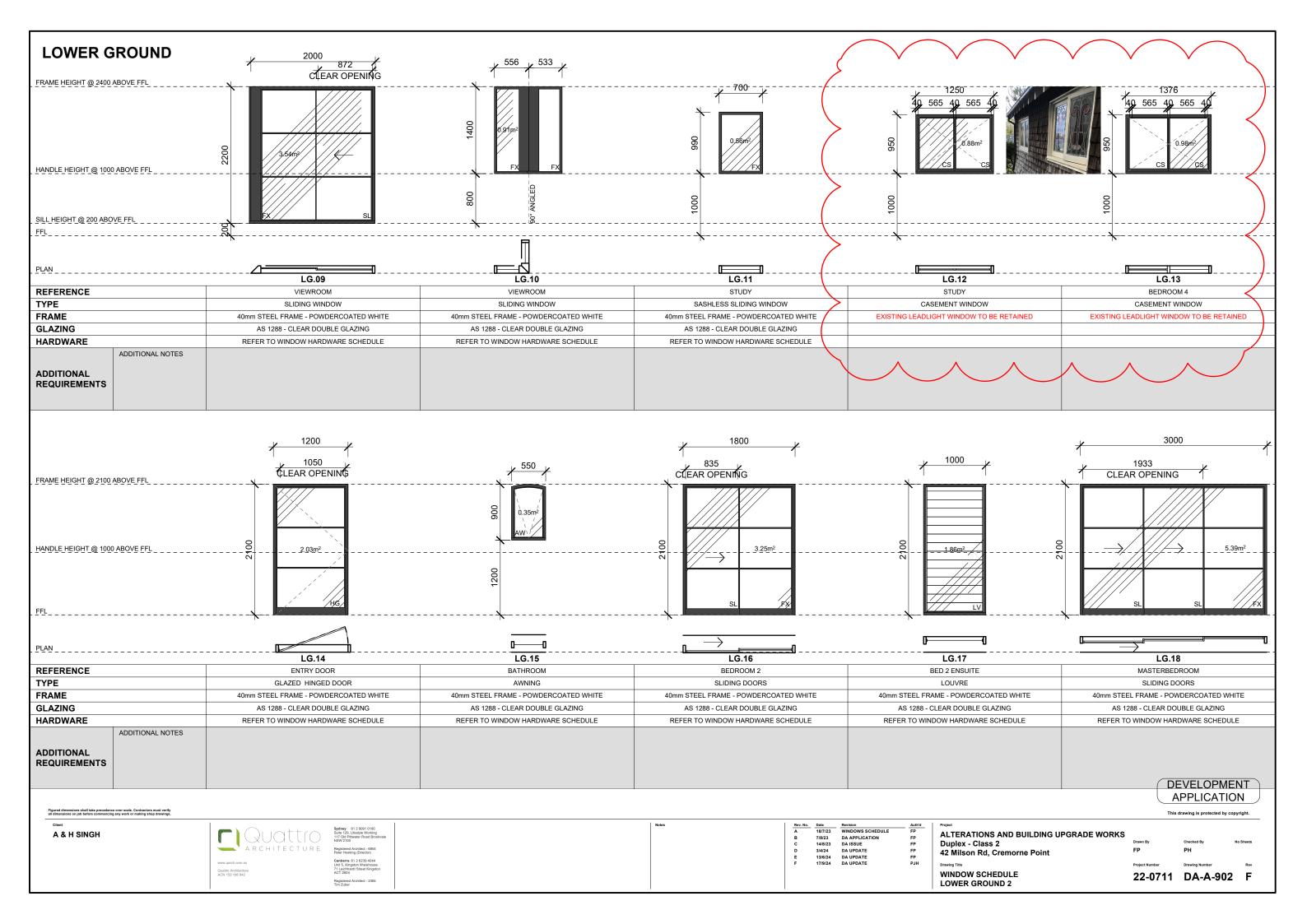
WINDOW SCHEDULE

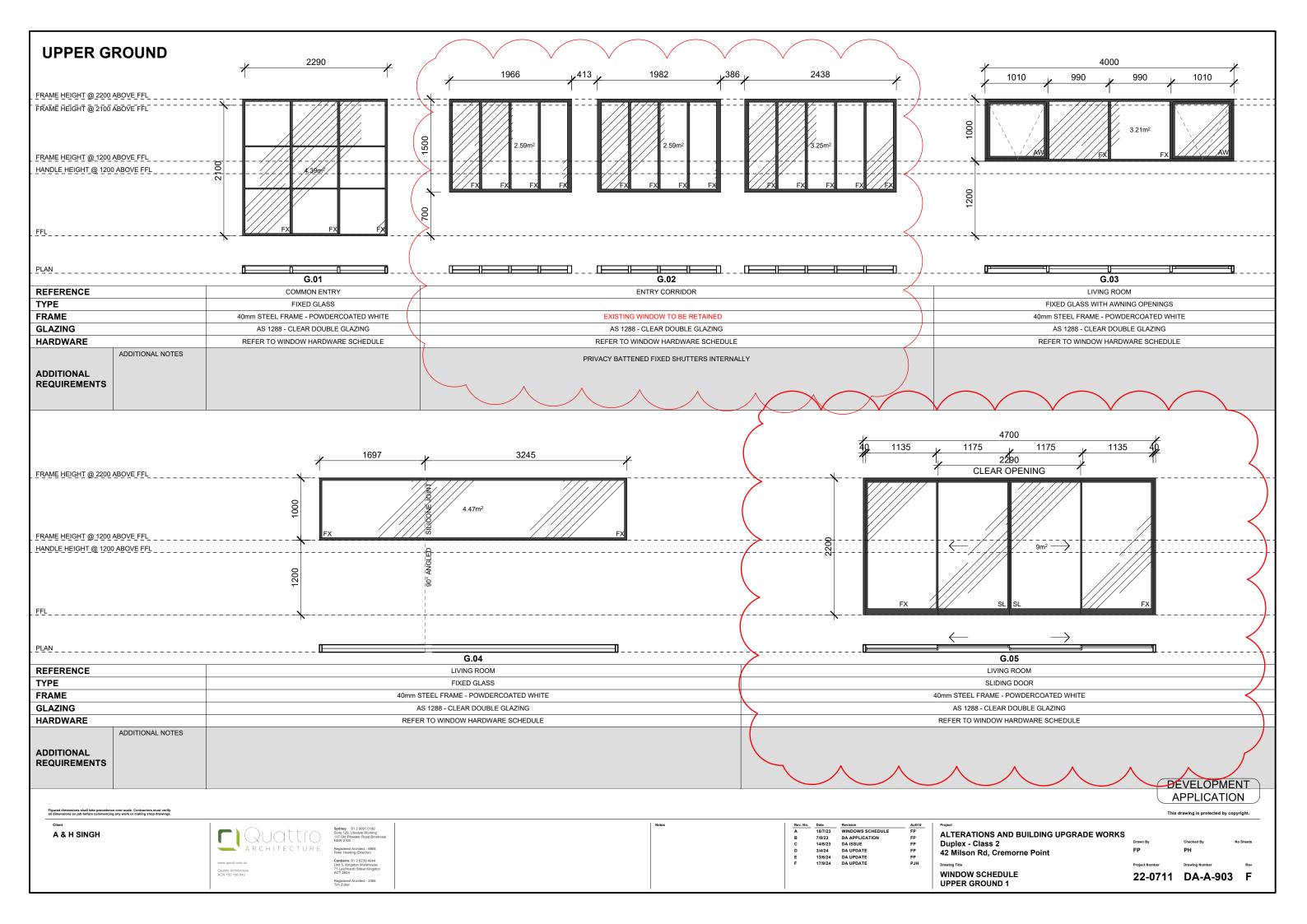
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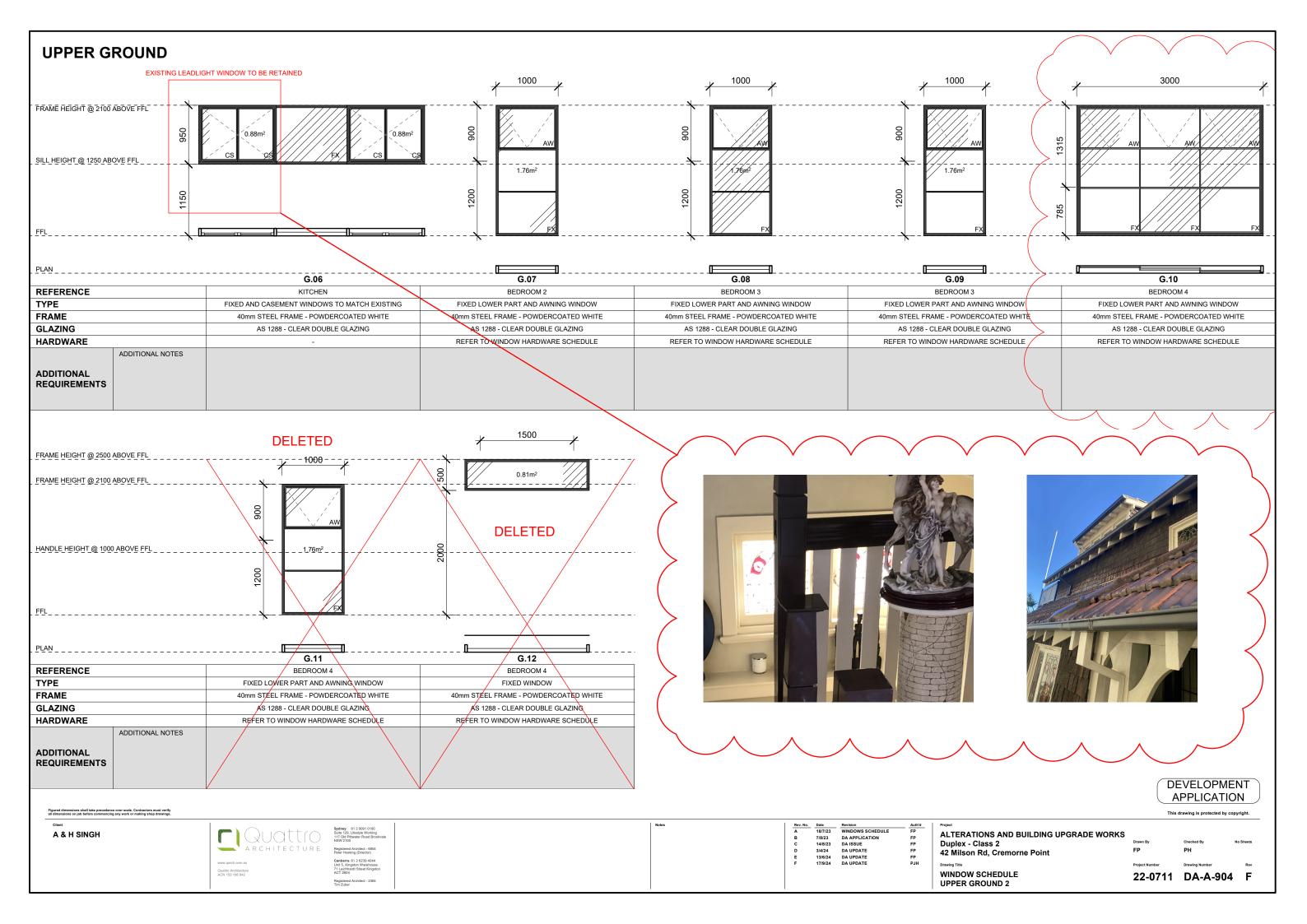
DEVELOPMENT APPLICATION

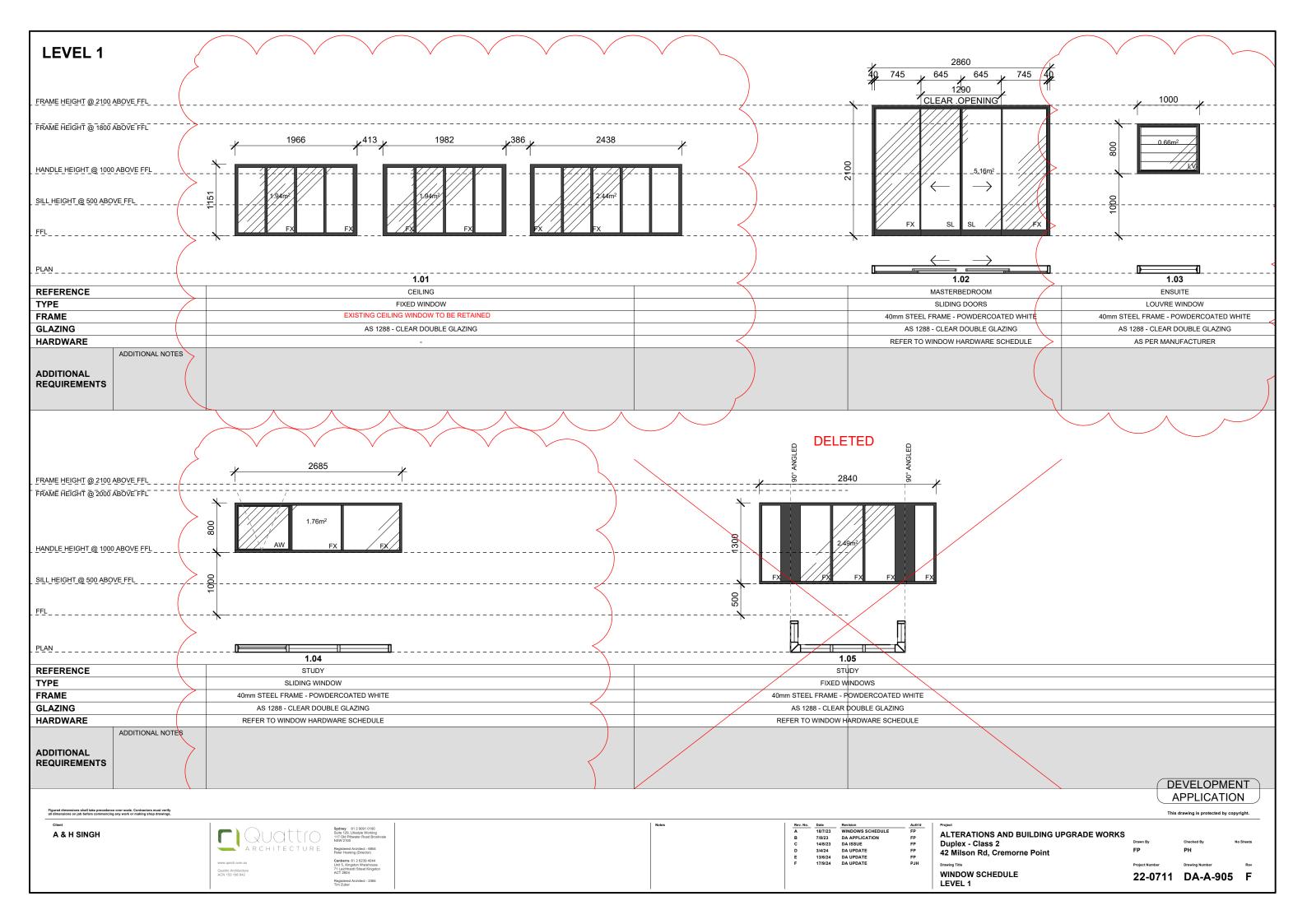
WINDOW SCHEDULE REFERENCE PLAN 22-0711 DA-A-900 F

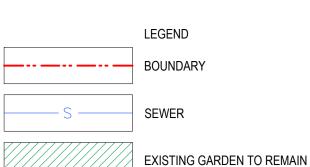












x 85.50 EXISTING SPOT LEVELS

11.52 PROPOSED LEVELS

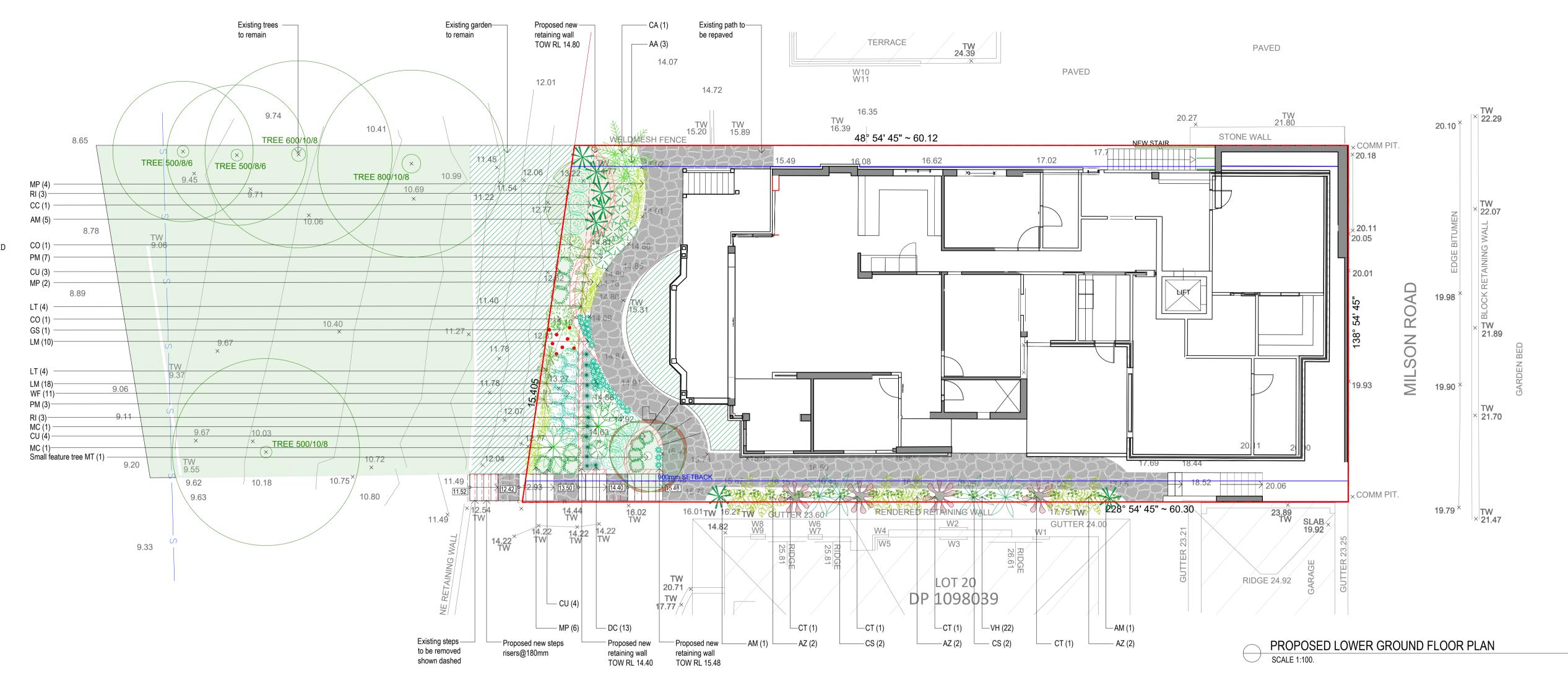
PROPOSED RETAINING WALL

PROPOSED PAVING

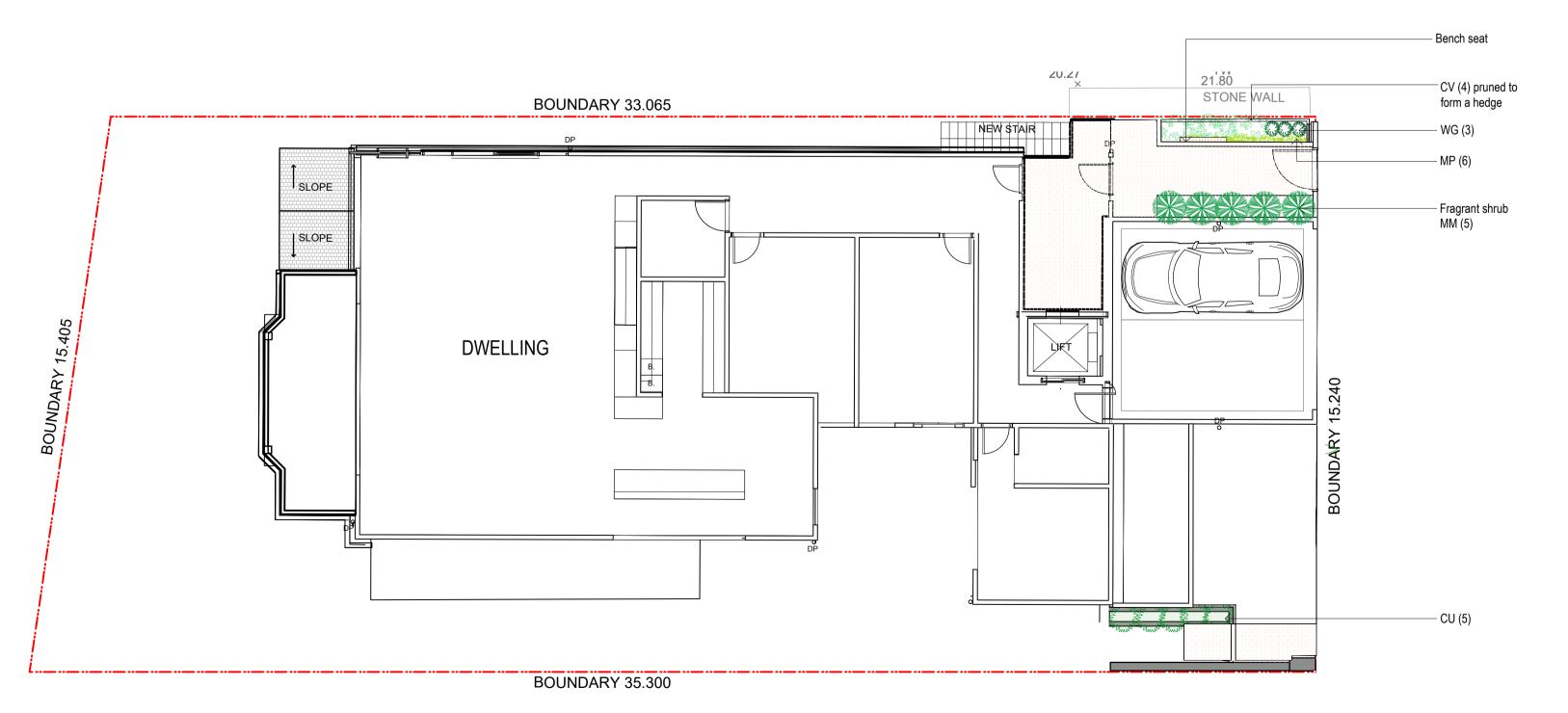
TO BE REMOVED

EXISTING TURF

EXISTING TREE TO BE RETAINED

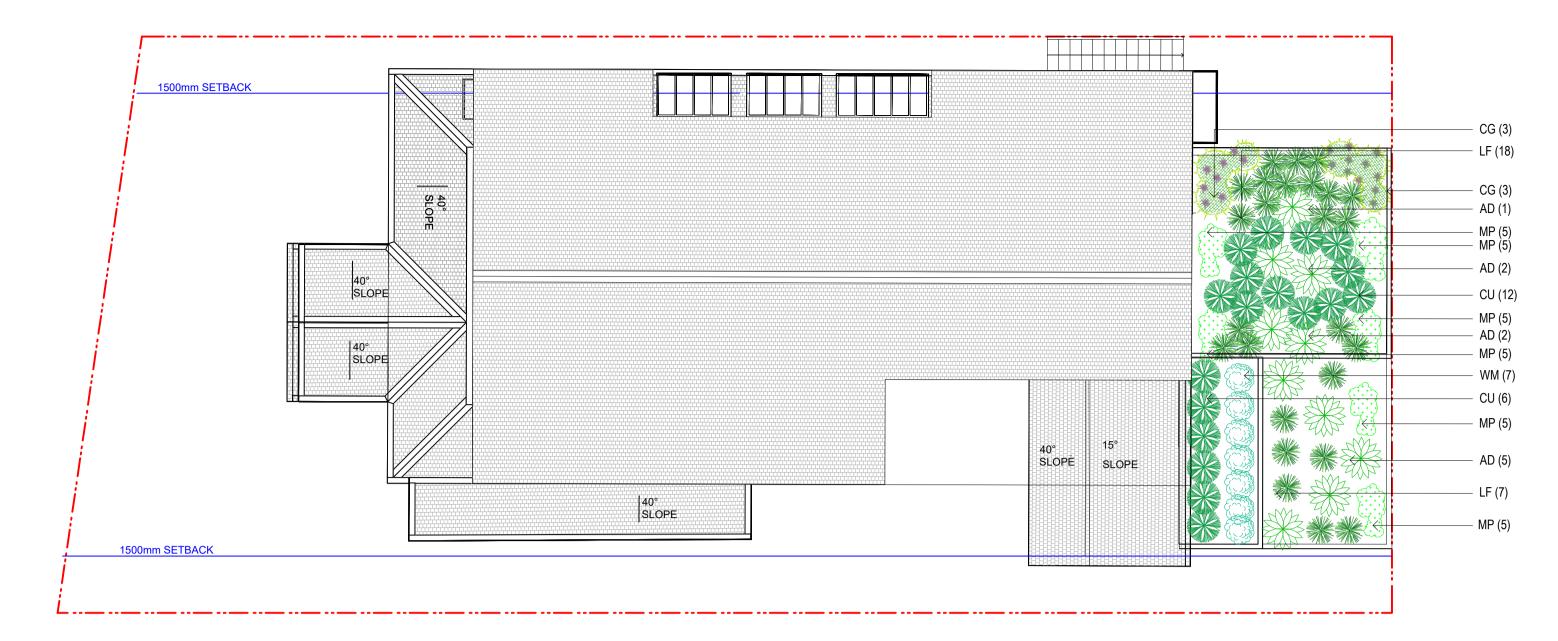


| | PROPOS | ED PLANT SCHEDULE | | | |
|-----|--------------------------------------|-------------------------|-----|---------------|-------------|
| KEY | BOTANICAL NAME | COMMON NAME | QTY | MATURE HGT | POT SIZE |
| | TREES / PALMS | | | | |
| CS | CHAMAEDOREA SEIFRIZII | BAMBOO PALM | 4 | 3m | 250mr |
| MT | MAGNOLIA GRANDIFLORA 'TEDDY BEAR' | TEDDY BEAR MAGNOLIA | 1 | 3m | 45Ltr |
| | SHRUBS / FERNS | | | | |
| AA | ASPLENIUM AUSTRALASICUM | BIRDS NEST FERN | 3 | 1m | 200m |
| ΑZ | ALPINIA ZERUMBET 'VARIEGATA' | VARIEGATED SHELL GINGER | 6 | 2m | 200m |
| CA | CYATHEA AUSTRALIS | ROUGH TREE FERN | 1 | 4m | 250m |
| CC | CALLISTEMON CITRINUS | CRIMSON BOTTLEBRUSH | 1 | 3m | 200m |
| CO | CORREA ALBA | WHITE CORREA | 2 | 1.2m | 250m |
| CT | CORDYLINE FRUTICOSA 'PINK DIAMOND' | PINK DIAMOND | 4 | 2m | 250m |
| CU | CRASSULA OVATA 'UNDULATA' | CRASSULA | 16 | 0.5m | 200m |
| CV | CALLISTEMON VIMINALIS 'RED ALERT' | RED ALERT BOTTLEBRUSH | 4 | 2m | 200m |
| GS | GREVILLEA SPECIOSA | RED SPIDER FLOWER | 1 | 1.5m | 200m |
| MC | MACROZAMIA COMMUNIS | BURRAWANG | 2 | 1.0m | 200m |
| MM | MURRAYA 'MIN A MIN' | DWARF ORANGE JESSAMINE | 5 | 1m | 200m |
| PM | PITTOSPORUM TOBIRA 'MISS MUFFET' | MISS MUFFET PITTOSPORUM | 10 | 0.7m | 200m |
| RI | RHAPHIOLEPIS INDICA 'ORIENTAL PEARL' | ORIENTAL PEARL | 6 | 1m | 250m |
| WF | WESTRINGIA FRUTICOSA 'AUSSIE BOX' | AUSSIE BOX WESTRINGIA | 11 | 0.9m | 200m |
| WG | WESTRINGIA FRUTICOSA 'GREY BOX' | GREY BOX WESTRINGIA | 3 | 0.4m | 200m |
| | GRASSES / GROUND COVERS | | | | |
| AM | ARTHROPODIUM 'MATAPOURI BAY' | RENGA RENGA LILY | 7 | 0.9m | 200m |
| DC | DIANELLA CAERULEA | BLUE FLAX LILY | 13 | 0.6m | 140m |
| LM | LIRIOPE MUSCARI 'PINK PEARL' | PINK PEARL | 31 | 0.3m | 140m |
| LT | LOMANDRA LONGIFOLIA 'TANIKA' | TANIKA | 8 | 0.6m | 140m |
| MP | MYOPORUM PARVIFOLIUM 'YAREENA' | YAREENA | 18 | 0.1m | 140m |
| VH | VIOLA HEDERACEA | NATIVE VIOLET | 22 | 0.1m | 140m |



PROPOSED UPPER GROUND FLOOR PLAN

Brookvale NSW 2100



PROPOSED LEVEL 1 ROOF TOP GARDEN PLAN

LANDSCAPE SPECIFICATION NOTES

topsoil surface which has the following characteristics:

Locate any underground and overground services & ensure no damage occurs. Levels on plan are nominal only & all dimensions to be checked on site prior to commencement. Final structural integrity of all items shall be the sole responsibility of landscape

WORKMANSHIP AND MATERIAL QUALITY

Materials and workmanship are to conform to the current applicable Australian Standard Specifications and Codes. Any work or materials, which, in the opinion of the Site Manager do not meet appropriate industry standards should be rejected. Where works are adjacent to existing works, make proper junctions between new and existing works and make good any damage caused to adjoining existing and retained works. **ELIMINATE WEEDS**

Remove all existing weeds by hand, wiping or spraying with a glyphosate based herbicide. Weed control shall never be performed by mechanical cultivation or by scraping. Herbicide spraying is to be used to eliminate all existing weeds 30 days prior to planting.

All construction must comply with AS 4419-2018 Soils for Landscaping and Garden Use. Spread the topsoil on the prepared subsoil and grade evenly, making allowances, if appropriate, for the following:

- Required finished levels and contours after light compaction. - Compact lightly and uniformly in 150 mm layers. Avoid differential subsidence and excess compaction and produce a finished
- Finished to design levels, smooth and free from stones or lumps of soil. Graded to drain freely, without ponding, to catchment
- points. Grade evenly into adjoining ground surfaces ready for planting. PLANTING AREA

Remove weeds, rubbish, mulch and other debris. Do not disturb tree roots or services and if necessary cultivate these areas by hand. Spread topsoil on the prepared subsoil and grade evenly, making the necessary allowance to permit the required finished levels and contours after a light compaction. Spread topsoil to the typical depth of 300mm. Feather edges into adjoining undisturbed

PLANT STOCK Plant stock to be supplied by production nurseries in accordance with AS 2303:2018 Tree Stock for Landscape Use.

Health & Vigour: Supply plants with foilage size, texture & colour consistent with that shown in healthy specimens of the species. Balance of Crown: Supply plants with max. variation in crown bulk on opposite sides of stem axis, +/- 20%. Stock selection should also be based on NATSPEC Guide Specifying Trees: a Guide to Assessment of Tree Quality.

TREE PLACEMENT AND ALIGNMENT

When the tree pit is excavated and the hole is the correct size, place the rootball in its final position. Ensure the trees are centred and plumb and the top of the rootball level with the finished surface of the surrounding soil mix. Do not use the trunk of the tree as a lever in positioning or moving the tree in the planting hole. Position the tree at the set out distances as indicated in the details. Ensure trunks are set

vertically and aligned with other new or existing trees. Orientate the trees trunk north where indicated by supplied markings where applicable.

ROOT TRIMMING

All trees shall have the outer 10-25mm of the external root ball faces pruned or sliced away using secateurs or a sharp and clean spade. Avoid excessive disturbance to the remaining root ball during this trimming and discontinue if excessive root ball soil begins to fall away. Do not leave the root balls exposed for extended periods. Cover the root ball with moist hessian if backfilling cannot occur immediately.

Install 3 x 2100mm (H) x 50mm x 50mm hardwood timber stakes with hessian ties to all trees. Provide appropriate support

considering exposure to prevailing winds. Stakes and hessian ties to be removed as soon as the tree is self supporting.

Backfill with soil mix as specified in soil mixes and in accordance with the details and specification. Lightly compact the soil to ensure all voids around root balls are filled and that no air pockets are retained. Ensure that the backfill soil is not paced over the top of the potted root ball. The top of the root ball and plant stem must be kept level with the top of the backfill.

Fertiliser to be applied at time of planting. Slow release landscape fertiliser suitable for trees and shrubs, 9 to 12 months release time. Osmocote or approved equivalent applied according to manufacturers directions.

All landscaping must comply with AS 4454-2012 Compost, soil conditioners and mulches. All planting areas to receive 50-75mm of

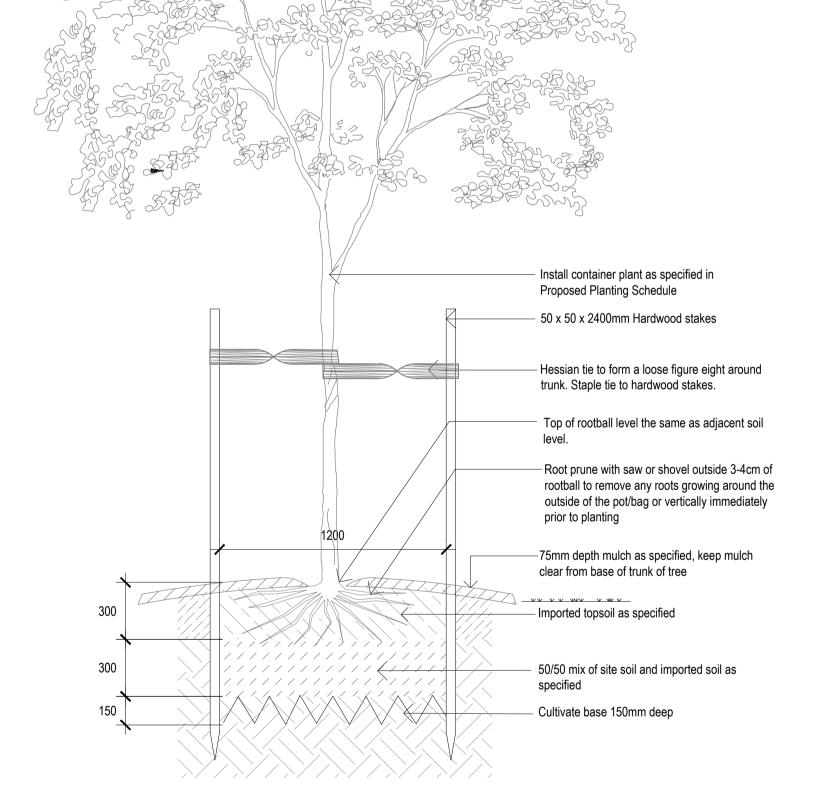
garden Mulch, Droughtmaster, ANL p: 02 9450 1444 or approved alternative. Keep mulch 100mm away from plant stem & form a well to stop excessive water runoff. Finish flush with adjacent surfaces.

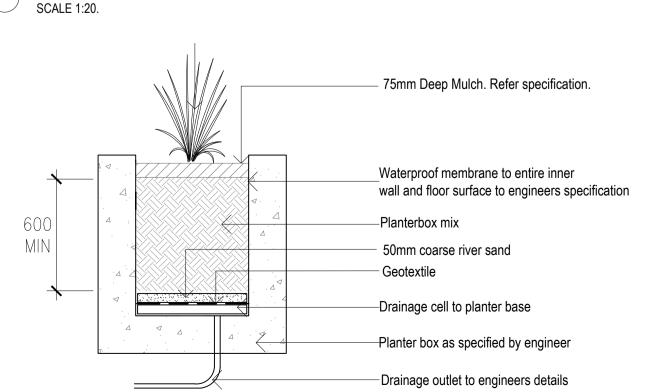
Water in immediately after plant installation & allow for soil settlement. Watering program: Minimum 3 complete waterings, soaking to a depth of 150 mm at fortnightly intervals for the first 6 weeks of plant establishment irrespective of natural rainfall. Manually water all lawn and planting areas in absence of an irrigation system or until the proposed irrigation system is fully operational. Avoid frequent dampening of the surface. Allow the surface of the soil to partially dry out between waterings.

PAVING OVER SAND BASE Excavated sub-base to be compacted. Provide and install 75mm depth of Fine Crushed Rock (FCR) to be compacted after installation. Provide and install 25mm depth of Sydney Sand to be compacted after installation. Pavers to be installed in pattern as indicated on plan. Ensure 2mm gap between pavers and sweep Sydney Sand between gaps upon completion and then compact with protection under compacting plate to ensure no damage to the pavers. Repeat sweeping sand and compaction. Provide

concrete strip edge restraint between pavement and soft areas. Ensure top of restraint is lower than top of paver. RETAINING WALLS & PLANTER BOXES

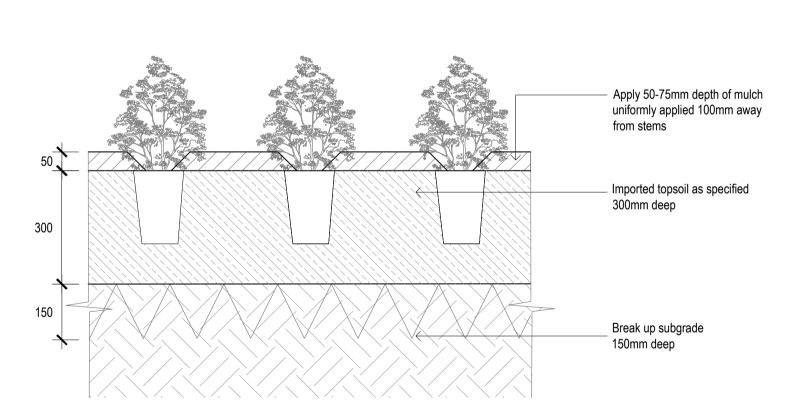
All retaining walls & planter boxes to be constructed to Engineer's details. Ensure all internal surfaces are waterproofed. Geotextile wrapped ag. drainage line backfilled with aggregate is to be installed behind all retaining walls & connected to stormwater in accordance with Sydney Water regulations. All planter boxes are to have Atlantis drainage cell (or approved alternative) installed & connected to stormwater in accordance with Sydney Water regulations.



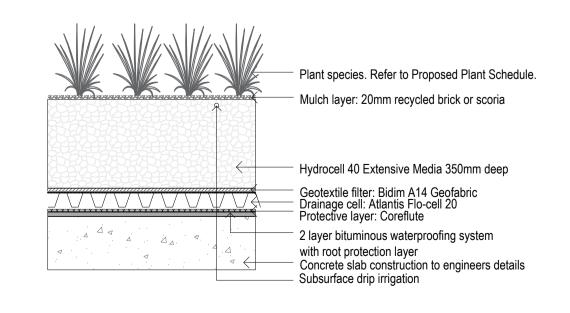




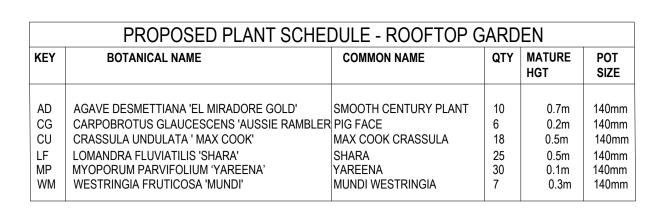
TYPICAL TREE PLANTING



TYPICAL SHRUB IN GARDEN PLANTING SCALE 1:10.



TYPICAL INTENSIVE ROOF GARDEN



PLANTING PALETTE







AGAVE DESMETTIANA 'EL MIRADORE GOLD'

CARPOBROTUS GLAUCESCENS 'AUSSIE RAMBLER'

CRASSULA UNDULATIFOLIA 'MAX COOK





LOMANDRA FLUVIATILIS 'SHARA'

MYOPORUM PARVIFOLIUM 'YAREENA'

WESTRINGIA FRUTICOSA 'MUNDI'

GREEN ROOF MAINTENANCE STRATEGY

For the successful establishment of green roofs it is essential that adequate maintenance on a regular basis be provided. As a general rule, all types of green roofs require a higher level of maintenance in their first 2 years until colonization has occurred and the vegetation has stabilized. The planters are to be consistently maintained to a high standard for maximum visual benefits, functions and uses. Establishment maintenance is typically 6 to 12 months with irrigation, weed control and pruning critical to promote suitable plant form and growth. All maintenance activities are to be conducted in accordance with applicable Australian and workplace safety regulations. All 'Working at Heights' requirements are to be met and recorded for all maintenance personnel including evidence of relevant certification. Safety systems are to be maintained as per AS/NZS 1891.4:2009. All work shall be carried out with regard to standard horticultural and arboricultural practices.

For the successful establishment of plants it is essential that adequate maintenance on a regular basis be provided. Regular visual inspection ensures problems can be readily identified and fixed. This regular maintenance will encourage quick development of the plants and reduce the cost of replacing dying plants.

VISUAL INSPECTION CHECKLIST

Use a visual inspection checklist to monitor the planters and identifying any problems. Additional visual inspections are recommended after extreme weather events such as heavy rain, strong winds and prolonged drought.

PLANT COVERAGE: Note any bare patches

PLANT HEALTH: Assess plant health and condition, noting signs of possible nutrient deficiencies, pests and diseases, damaged needs and any declines / deaths. plants, pruning

WEEDS: Assess the weeds present, noting the dominant species and if particular areas are more impacted than others. Check the planters, noting any roots emerging from the bottom of planters, particularly at drainage points, or any **PLANTERS** surface damage of the planter profile.

IRRIGATION: Check any damage/deterioration of irrigation components and any visual signs of over/under watering. Check for blockages, standing water. DRAINAGE:

HORTICULTURAL MAINTENANCE

Weeding

Uncontrolled weeds compete with planted species and can alter the aesthetic and functional outcomes of the planters. Weed control measures should aim to eliminate weed germination and establishment. Weeds are to be controlled while young and before seed

Physical control of weeds in planters rely on hand removal with early weeding of small weeds the most effective approach. Weeds to be removed carefully by hand to minimize spread. Chemicals are generally not recommended. Maintenance staff should observe good hygiene practices to ensure weeds do not spread from one site to another. Pruning:

Pruning is undertaken to manage plant form and shape of climbers and small trees. Begin from the top of the green wall and head down towards the bottom. Prune specimens that tower above others. Ensure plants do not attach to windows or walls. Prune climbers to encourage attachment to wire cables and ensure they do not grow over planter edges and trail along the ground. Prune climbers to ensure they do not attached to the small trees. Pruning as required to small trees to maintain plant density, shape, encourage flowering and improve appearance. After pruning, plants should have no dead wood evident and retain an appropriate

form or shape. Pruning frequency will be dependent on growth rates and seasonality. Plant Health:

Plant health issues may relate to nutrition or from abiotic stresses such as elevated heat, drought and wind exposure. Pests can cause physical damage to plants while pathogens such as viruses, fungi and bacteria can introduce disease and damage plant growth. Integrated pest management approaches will be the most effective to ensure plant health. Vegetation should be healthy with even growth and no evidence of pest and disease infestation. Scheduling of control measures will depend on the plant species and

Soil Testing:

If growth of plants is poor a soil pH test should be performed. Follow the instructions as per the pH colourmetric kit to check the soil

pH is at an acceptable level. Fertilisers:

Managing plant nutrition should be based on regular monitoring of plant growth. Visual symptoms such as low vigour, stunting, leaf yellowing or chlorosis may indicate nutrient deficiency. Assessing the soil pH helps identify problems. Fertilising will only be required if the plant is indicating signs of poor condition and slow growth due to nutrient deficiencies. If fertilising is deemed to be necessary it will be carried out after the second seasons growth at the end of the second growing season in late summer to autumn. Fertilisers are to be used carefully to avoid dumping of nutrients and/or leaching of nutrients into the stormwater. Synthetic, controlled-release fertiliser or organic slow-release fertilisers should be used. N:P:K ratios and application rates vary greatly depending on conditions of use. Consult manufacturers for application rates suitable for individual plantings.

Check individual components of the irrigation system included drip heads, irrigation lines and drainage gutters.

internally. Mulching materials must be sourced from a certified fully licensed Australian Standard producer.

Every 6 months all garden beds are to be checked to ensure there is sufficient mulch. Mulch to be spread evenly and uniformly at a consistent depth. No ponding of water should be evident or in perimeter drains and no leaks observed from planters externally or

Brookvale NSW 2100

42 & 42A Milson Road,

Cremorne Point NSW 2090

PROJECT NO: 232104