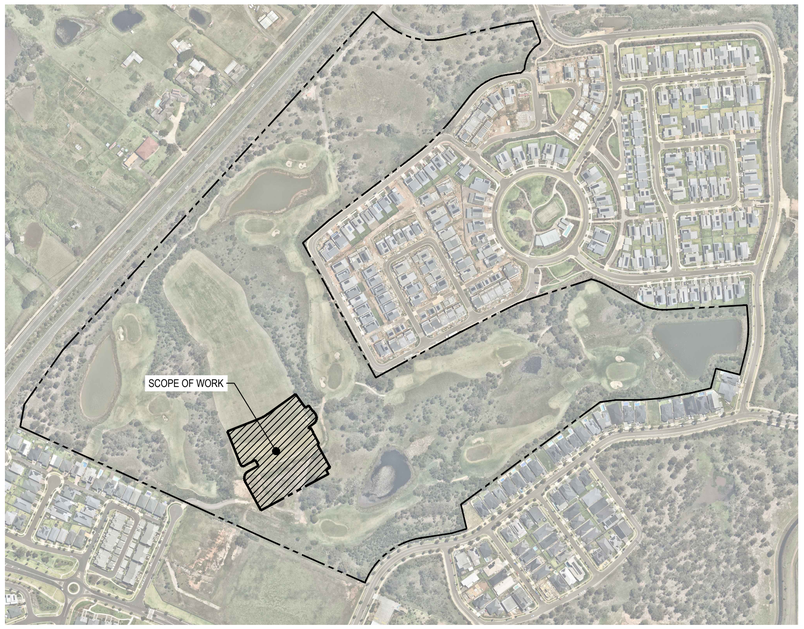
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS
CIVIL ENGINEERING WORKS

GENERAL NOTES:

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH CAMDEN COUNCIL'S SPECIFICATION. CONTRACTOR TO OBTAIN AND RETAIN A COPY ON SITE DURING THE COURSE OF THE WORKS.
2. ALL NEW WORKS ARE TO MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS AND MARRY IN A 'WORKMANLIKE' MANNER.
3. THE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL SERVICES WITH EACH RELEVANT AUTHORITY. ANY DAMAGE TO SERVICES SHALL BE RECTIFIED BY THE CONTRACTOR OR THE RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE. SERVICES SHOWN ON THESE PLANS ARE ONLY THOSE EVIDENT AT THE TIME OF SURVEY OR AS DETERMINED FROM SERVICE DIAGRAMS. H & H CONSULTING ENGINEERS PTY. LTD CANNOT GUARANTEE THE INFORMATION SHOWN NOR ACCEPT ANY RESPONSIBILITY FOR INACCURACIES OR INCOMPLETE DATA.
4. SERVICES & ACCESSES TO THE EXISTING PROPERTIES ARE TO BE MAINTAINED IN WORKING ORDER AT ALL TIMES DURING CONSTRUCTION.
5. ADJUST EXISTING SERVICE COVERS TO SUIT NEW FINISHED LEVELS TO RELEVANT AUTHORITY REQUIREMENTS WHERE NECESSARY.
6. REINSTATE AND STABILISE ALL DISTURBED LANDSCAPED AREAS.
7. MINIMUM GRADE OF SUBSOIL SHALL BE 0.5% (1:200) FALL TO OUTLETS.
8. ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS, EROSION AND SEDIMENTATION CONTROL PLAN AND CAMDEN COUNCIL'S REQUIREMENTS WHERE APPLICABLE.
9. CONTRACTOR TO CHECK AND CONFIRM SITE DRAINAGE CONNECTIONS ACROSS THE VERGE PRIOR TO COMMENCEMENT OF SITE DRAINAGE WORKS.
10. PROPERTIES AFFECTED BY THE WORKS ARE TO BE NOTIFIED IN ADVANCE WHERE DISRUPTION TO EXISTING ACCESS IS LIKELY.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY THE SURVEYOR SPECIFIED IN THE TITLE BLOCK.
THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. HENRY AND HYMAS PTY. LTD. DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT HENRY AND HYMAS PTY. LTD. THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM ORIGINAL SURVEY DOCUMENTS.



LOCALITY SKETCH

SCALE: N.T.S.

DRAWING SCHEDULE

230605_DA_C000	COVER SHEET, DRAWING SCHEDULE, NOTES AND LOCALITY SKETCH
230605_DA_C100	GENERAL ARRANGEMENT PLAN - LOWER GROUND FLOOR
230605_DA_C101	DETAIL PLAN - LOWER GROUND FLOOR - SHEET 1 OF 6
230605_DA_C102	DETAIL PLAN - LOWER GROUND FLOOR - SHEET 2 OF 6
230605_DA_C103	DETAIL PLAN - LOWER GROUND FLOOR - SHEET 3 OF 6
230605_DA_C104	DETAIL PLAN - LOWER GROUND FLOOR - SHEET 4 OF 6
230605_DA_C105	DETAIL PLAN - LOWER GROUND FLOOR - SHEET 5 OF 6
230605_DA_C106	DETAIL PLAN - LOWER GROUND FLOOR - SHEET 6 OF 6
230605_DA_C110	GENERAL ARRANGEMENT PLAN - GROUND FLOOR
230605_DA_C111	DETAIL PLAN - GROUND FLOOR - SHEET 1 OF 3
230605_DA_C112	DETAIL PLAN - GROUND FLOOR - SHEET 2 OF 3
230605_DA_C113	DETAIL PLAN - GROUND FLOOR - SHEET 3 OF 3
230605_DA_C120	TYPICAL ROAD SECTIONS
230605_DA_C121	TYPICAL DETAILS
230605_DA_C150	ROAD LONGITUDINAL SECTIONS - SHEET 1 OF 2
230605_DA_C151	ROAD LONGITUDINAL SECTIONS - SHEET 2 OF 2

DRAWING SCHEDULE

230605_DA_C200	STORMWATER MISCELLANEOUS DETAILS AND PIT LID SCHEDULE
230605_DA_C201	OSD BASIN SECTION AND DETAILS
230605_DA_C202	WATER QUALITY CHAMBER PLAN AND SECTIONS
230605_DA_C203	SWALE TYPICAL DETAILS
230605_DA_C220	OUTLET DETAIL PLAN HEADWALL
230605_DA_C250	PRE DEVELOPMENT CATCHMENT PLAN
230605_DA_C251	POST DEVELOPMENT CATCHMENT PLAN
230605_DA_C252	MUSIC CATCHMENT PLAN AND MUSIC CALCULATION
230605_DA_C650	VEHICLE SWEEP PATHS - LOWER GROUND LEVEL - HRV INBOUND
230605_DA_C651	VEHICLE SWEEP PATHS - LOWER GROUND LEVEL - HRV OUTBOUND
230605_DA_C652	VEHICLE SWEEP PATHS - LOWER GROUND LEVEL - PASSENGER VEHICLES 01
230605_DA_C653	VEHICLE SWEEP PATHS - LOWER GROUND LEVEL - PASSENGER VEHICLES 02
230605_DA_C654	VEHICLE SWEEP PATHS - GROUND LEVEL - HRV (FIRE BRIGADE) - DRIVEWAY
230605_DA_C655	VEHICLE SWEEP PATHS - GROUND LEVEL - HRV (FIRE BRIGADE) - CARPARK
230605_DA_C656	VEHICLE SWEEP PATHS - GROUND LEVEL - PASSENGER VEHICLES
230605_DA_SE01	SEDIMENT AND EROSION CONTROL PLAN
230605_DA_SE02	SEDIMENT AND EROSION CONTROL DETAILS
230605_DA_BE01	BULK EARTHWORKS CUT&FILL PLAN

SITEWORKS NOTES

- DATUM : A.H.D.
- ORIGIN OF LEVELS : REFER TO BENCH OR STATE SURVEY MARKS WHERE SHOWN ON PLAN.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO THE COMMENCEMENT OF WORK.
- ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS & THE DIRECTIONS OF THE SUPERINTENDENT.
- EXISTING SERVICES UNLESS SHOWN ON THE SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS ACHIEVED.
- THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATION IS TO BE UNDERTAKEN OVER TELSTRA OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- CONTRACTOR TO OBTAIN AUTHORITY APPROVALS WHERE APPLICABLE.
- MAKE SMOOTH TRANSITION TO EXISTING SURFACES AND MAKE GOOD.
- THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED LANDSCAPE, ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED RELATING TO DEVELOPMENT AT THE SITE.
- TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MINIMUM OF 50mm IN BITUMINOUS PAVING.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN Ø80 uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.
- GRADES TO PAVEMENTS TO BE AS IMPLIED BY RL'S ON PLAN . GRADE EVENLY BETWEEN NOMINATED RL'S. AREAS EXHIBITING PONDING GREATER THAN 5mm DEPTH WILL NOT BE ACCEPTED UNLESS IN A DESIGNATED SAG POINT.
- ALL COVERS AND GRATES ETC TO EXISTING SERVICE UTILITIES ARE TO BE ADJUSTED TO SUIT NEW FINISHED SURFACE LEVELS WHERE APPLICABLE.

EXISTING SERVICES & FEATURES

- THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA OR AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF HIS PROGRAM FOR THE RELOCATION/ CONSTRUCTION OF TEMPORARY SERVICES.
- CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN SUPPLY TO EXISTING BUILDING REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED, THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
- INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL FROM THE SUPERINTENDENT FOR TIME OF INTERRUPTION.
- EXISTING SERVICES, BUILDINGS, EXTERNAL STRUCTURES AND TREES SHOWN ON THESE DRAWINGS ARE EXISTING FEATURES PRIOR TO ANY DEMOLITION WORKS.
- EXISTING SERVICES UNLESS SHOWN ON SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE A 'DIAL BEFORE YOU DIG' SEARCH AND TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN Ø80 uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	RE-ISSUED FOR DA ONLY	MB	SY	23.07.20204					
03	ISSUED FOR DA ONLY	AFe	SY	07.06.2024					
02	ISSUED FOR DA ONLY	MB	SY	14.03.2024					
01	ISSUED FOR CO-ORDINATION	MB	SY	13.03.2024					

Client
WESTS Group

Architect
ALTIS Architecture

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DRAWING TO BE PRINTED IN COLOUR

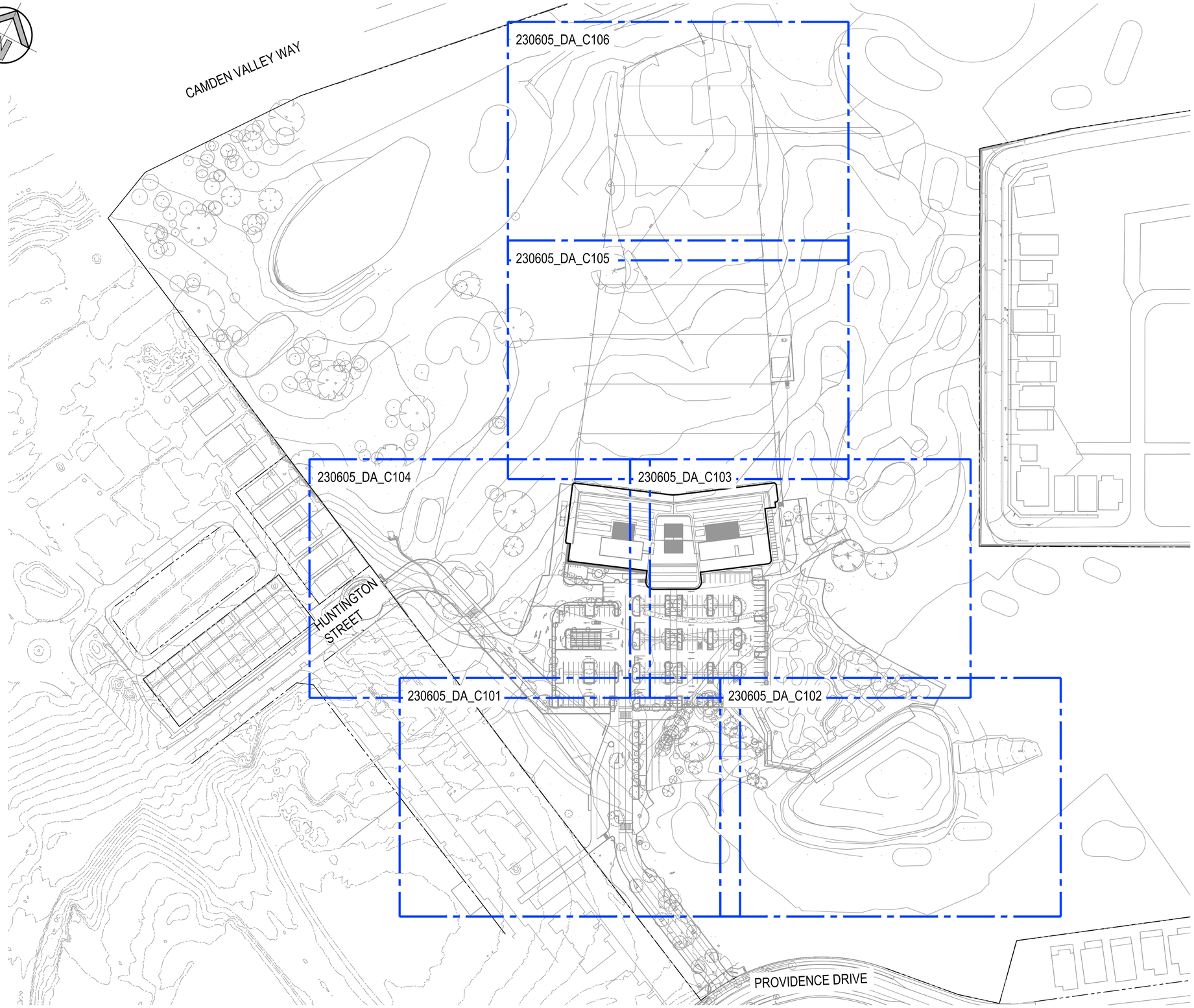
henry&hymas

Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
COVER SHEET, DRAWING SCHEDULE, NOTES AND LOCALITY SKETCH

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	N.T.S.

Drawing number: 230605_DA_C000
Revision: 04



LEGEND

- EXISTING BOUNDARY
- EXISTING SURFACE INLET PITS
- SW — EXISTING STORMWATER
- 73.20 — EXISTING CONTOURS
- 72.50 — PROPOSED CONTOURS
- R — PROPOSED RIDGE LINE
- V — PROPOSED VALLEY LINE
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS
- PROPOSED LINTEL ONGRADE & SAG PITS
- A-1 LINE LETTER PIT NUMBER — PROPOSED PIT TAG
- GD-1 — PROPOSED 200mm WIDE GRATED DRAIN MEDIUM DUTY GRATED DRAIN GRATE CLASS "C" OR APPROVED EQUIVALENT
- GD-2 — PROPOSED 150mm WIDE GRATED DRAIN LIGHT DUTY GRATED DRAIN GRATE CLASS "B" OR APPROVED EQUIVALENT
- PROPOSED STORMWATER PIPE
- PROPOSED SWALE
- PROPOSED W-BEAM BARRIER
- PROPOSED 1200mm NON-CLIMBABLE FENCE
- PROPOSED ROOF AND GROUND FLOOR DRAINAGE COLLECTION LINE
- PROPOSED BATTER LINE
- RL125.85 — PROPOSED SPOT LEVEL
- K&G — PROPOSED KERB & GUTTER
- IK — PROPOSED INTEGRAL KERB
- MK — PROPOSED CONCRETE MEDIAN KERB
- RW — PROPOSED RETAINING WALL
- LW — PROPOSED LANDSCAPE WALL
- 0.5% FALL — PROPOSED FALL
- PROPOSED HEADWALL
- DP — PROPOSED DOWNPIPE (DP)
- DP — PROPOSED DOWNPIPE WITH SPREADER (DP)
- FALL — PROPOSED GRADING/ FALL
- IR — INTERMEDIATE RISER (IR)
- FP — FLUSHING POINT (FP)

0 20 40 60 80 100m
20 15 10 5
SCALE 1:1000

GENERAL ARRANGEMENT PLAN - LOWER GROUND FLOOR

SCALE 1:1000

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
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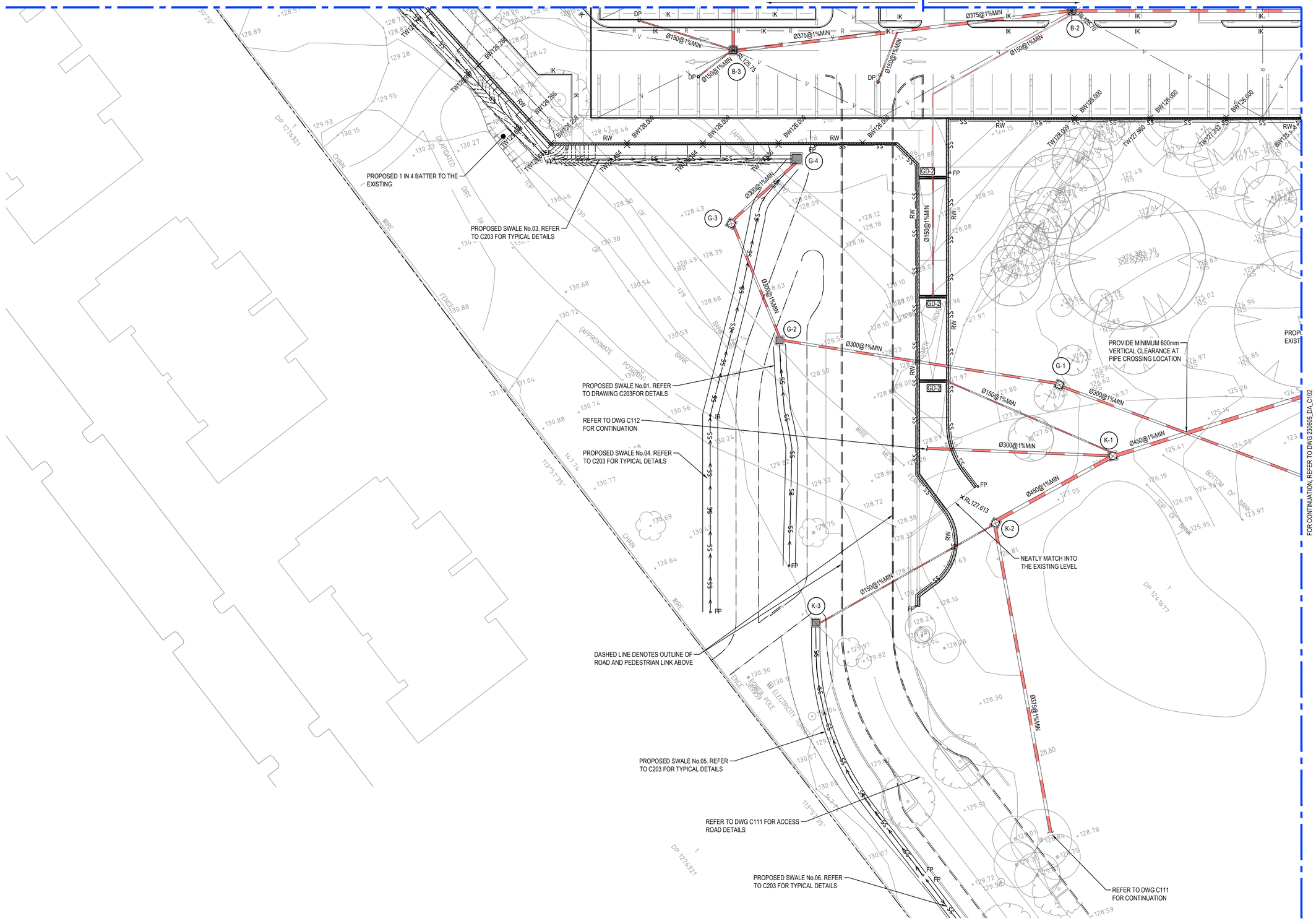
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
GENERAL ARRANGEMENT PLAN
LOWER GROUND FLOOR

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:1000

Drawing number: 230605_DA_C100
Revision: 04



DETAIL PLAN - LOWER GROUND FLOOR

SCALE 1:250

0 5 10 15 20 25m

5 4 3 2 1

SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
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03	ISSUED FOR DA ONLY	AFe	SY	07.06.2024
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01	ISSUED FOR CO-ORDINATION	MB	SY	13.03.2024

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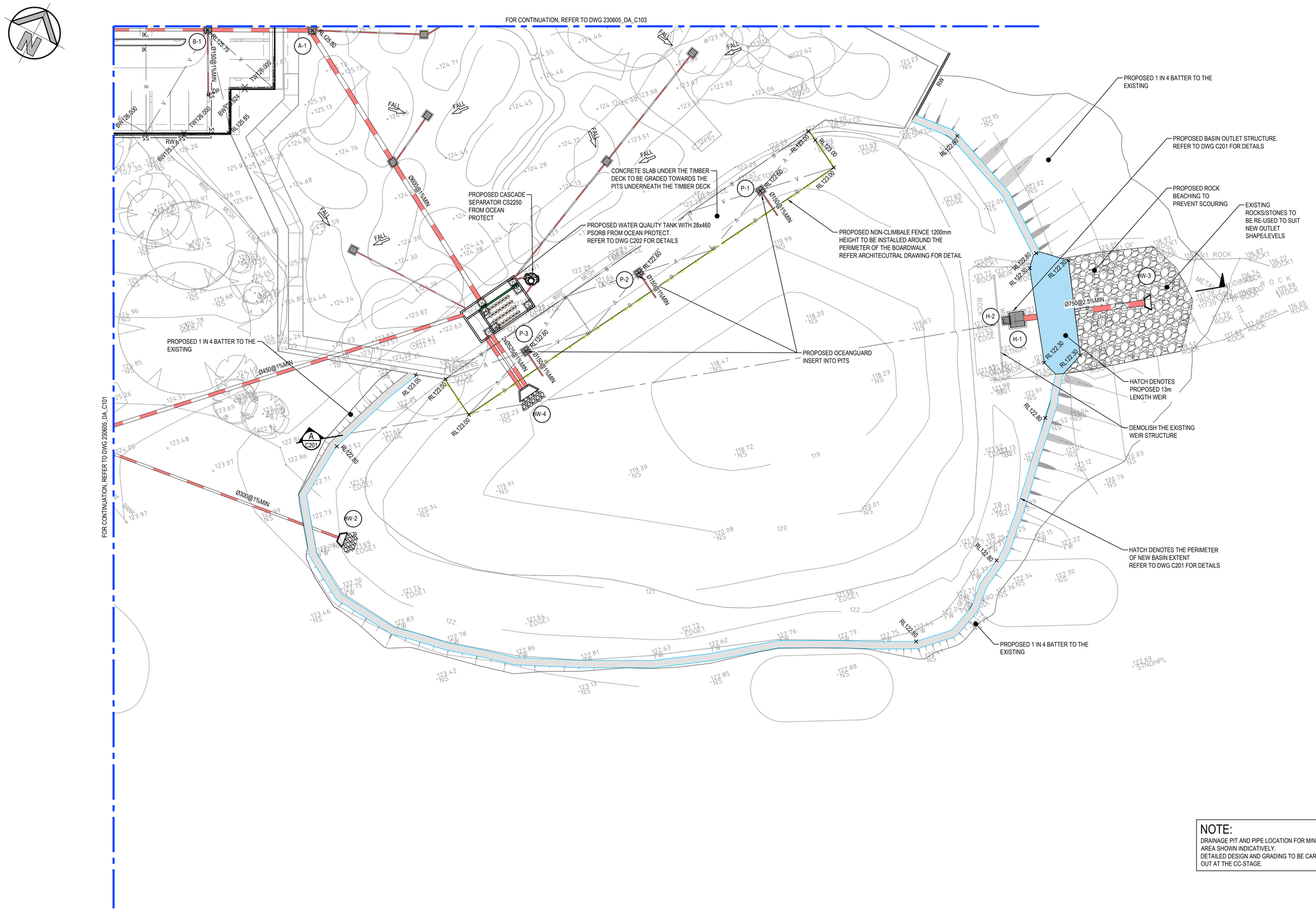
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
DETAIL PLAN - LOWER GROUND FLOOR
SHEET 1 OF 6

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:250

Drawing number: 230605_DA_C101
Revision: 04



NOTE:
DRAINAGE PIT AND PIPE LOCATION FOR MINI GOLF AREA SHOWN INDICATIVELY.
DETAILED DESIGN AND GRADING TO BE CARRIED OUT AT THE CC-STAGE.

DETAIL PLAN - LOWER GROUND FLOOR

SCALE 1:250

0 5 10 15 20 25m
5 4 3 2 1
SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL 126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	RE-ISSUED FOR DA ONLY	MB	SY	23.07.2024
04	ISSUED FOR DA ONLY	AFe	SY	07.06.2024
03	ISSUED FOR DA ONLY	MB	SY	15.03.2024
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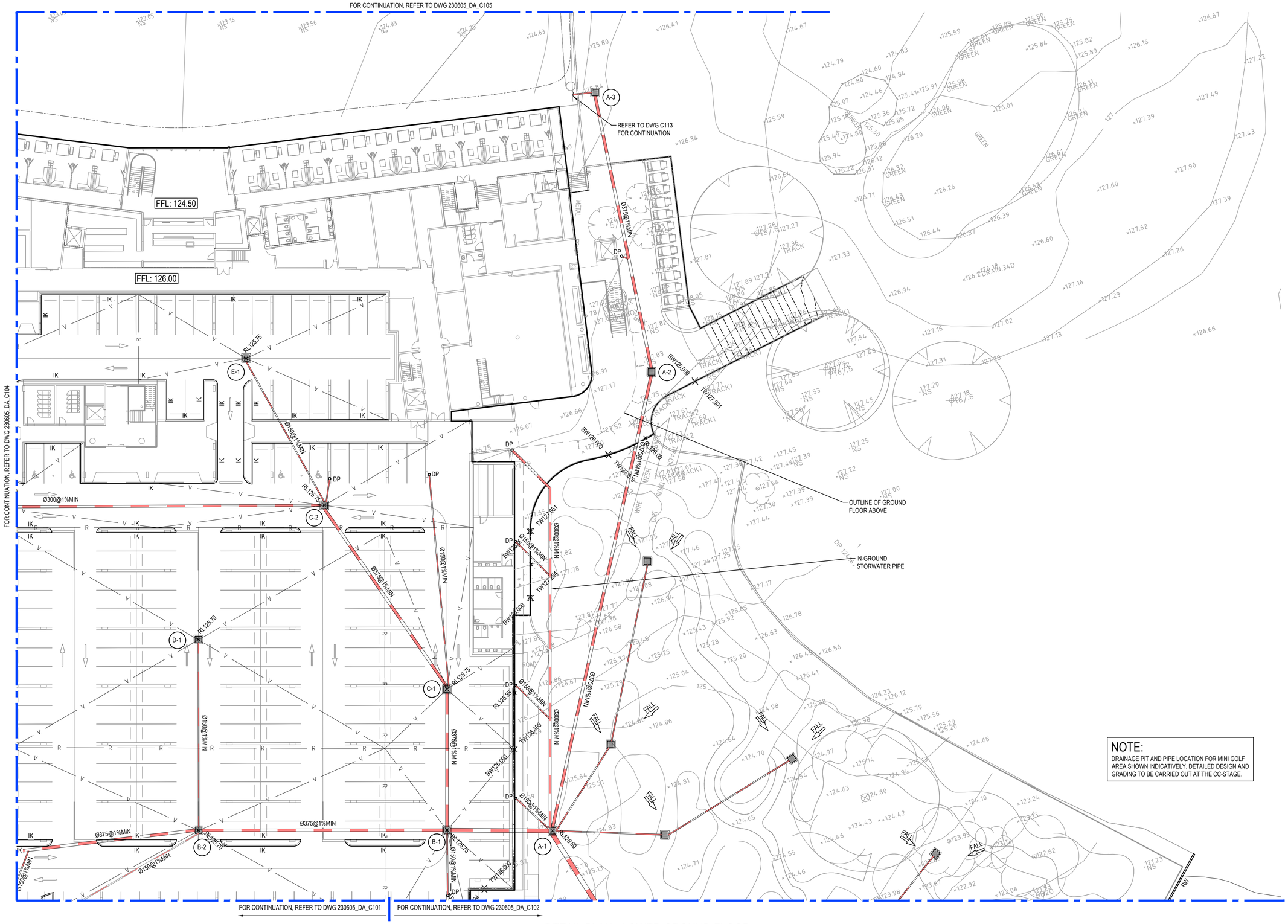
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
DETAIL PLAN - LOWER GROUND FLOOR
SHEET 2 OF 6

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:250

Drawing number 230605_DA_C102
Revision 05



DETAIL PLAN - LOWER GROUND FLOOR

SCALE 1:250

0 5 10 15 20 25m

5 4 3 2 1

SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL 126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
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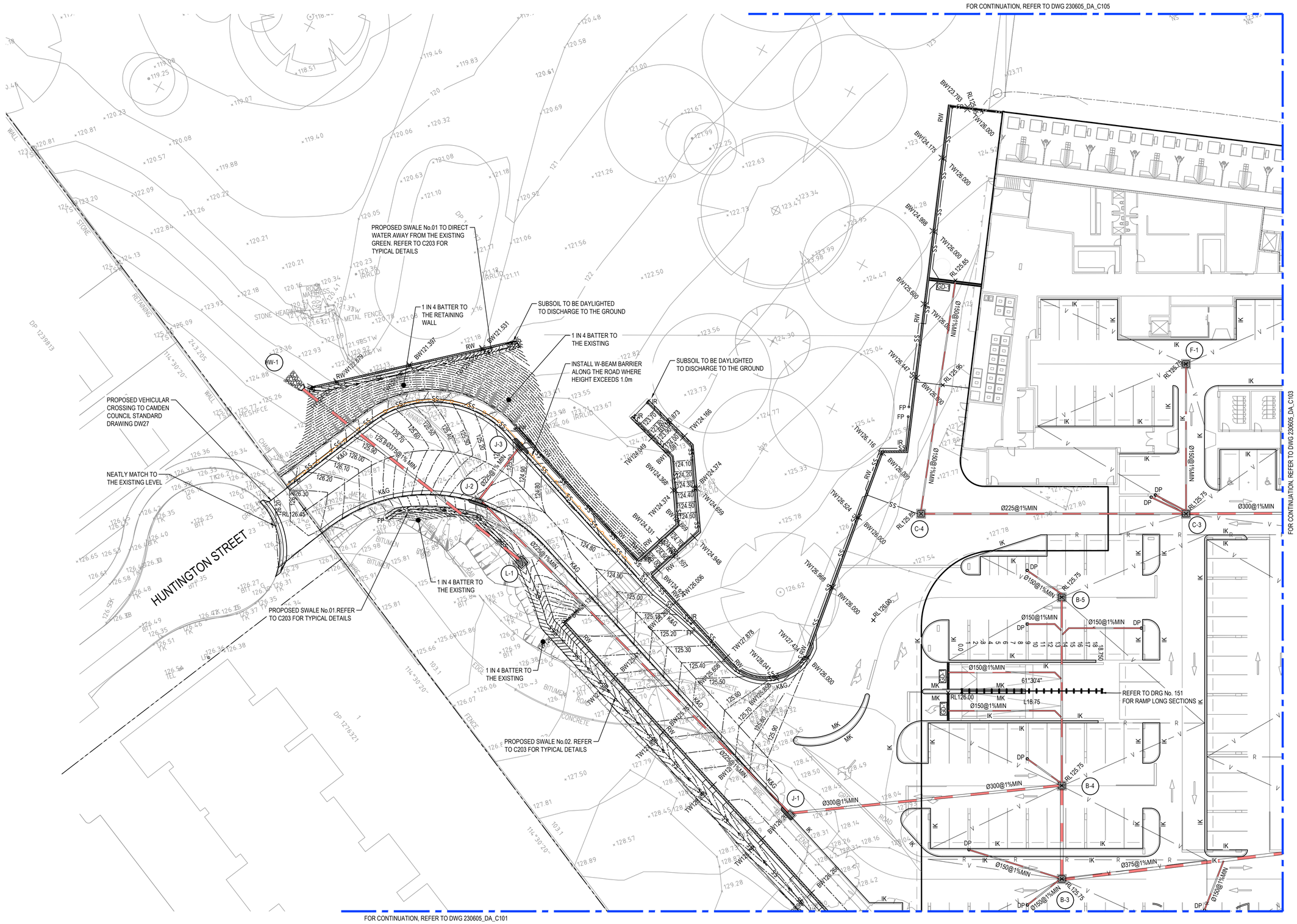
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
DETAIL PLAN - LOWER GROUND FLOOR
SHEET 3 OF 6

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:250

Drawing number
230605_DA_C103

Revision
05



DETAIL PLAN - LOWER GROUND FLOOR

SCALE 1:250

0 5 10 15 20 25m

5 4 3 2 1

SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM. A.H.D
ORIGIN OF LEVELS: SSM 192791 RL 126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
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Client
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DRAWING TO BE PRINTED IN COLOUR

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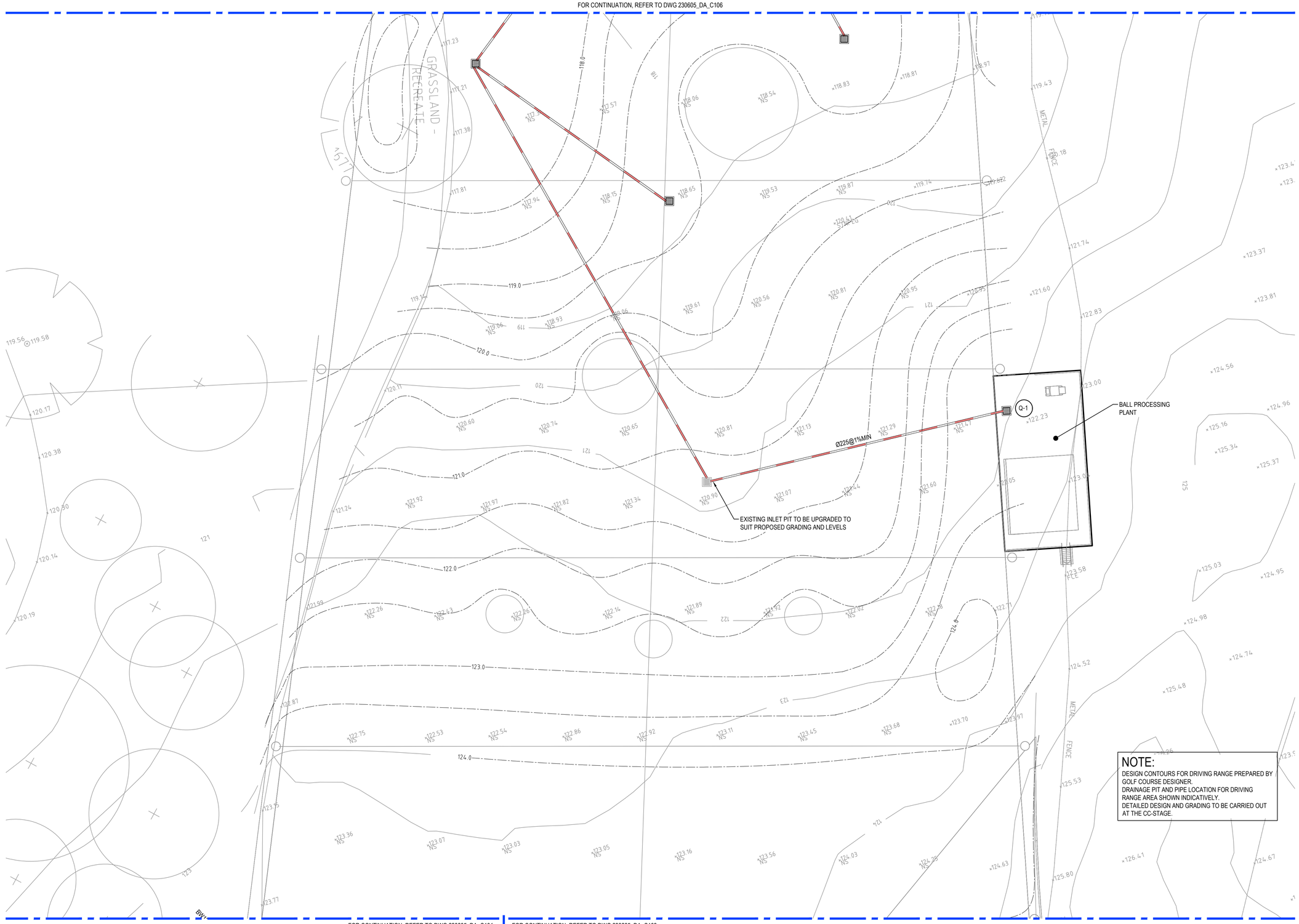
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
DETAIL PLAN - LOWER GROUND FLOOR
SHEET 4 OF 6

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:250

Drawing number: 230605_DA_C104

Revision: 05



NOTE:
DESIGN CONTOURS FOR DRIVING RANGE PREPARED BY GOLF COURSE DESIGNER.
DRAINAGE PIT AND PIPE LOCATION FOR DRIVING RANGE AREA SHOWN INDICATIVELY.
DETAILED DESIGN AND GRADING TO BE CARRIED OUT AT THE CC-STAGE.

DETAIL PLAN - LOWER GROUND FLOOR

SCALE 1:250

0 5 10 15 20 25m
5 4 3 2 1
SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
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03	ISSUED FOR DA ONLY	AFe	SY	07.06.2024
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Client
WESTS Group

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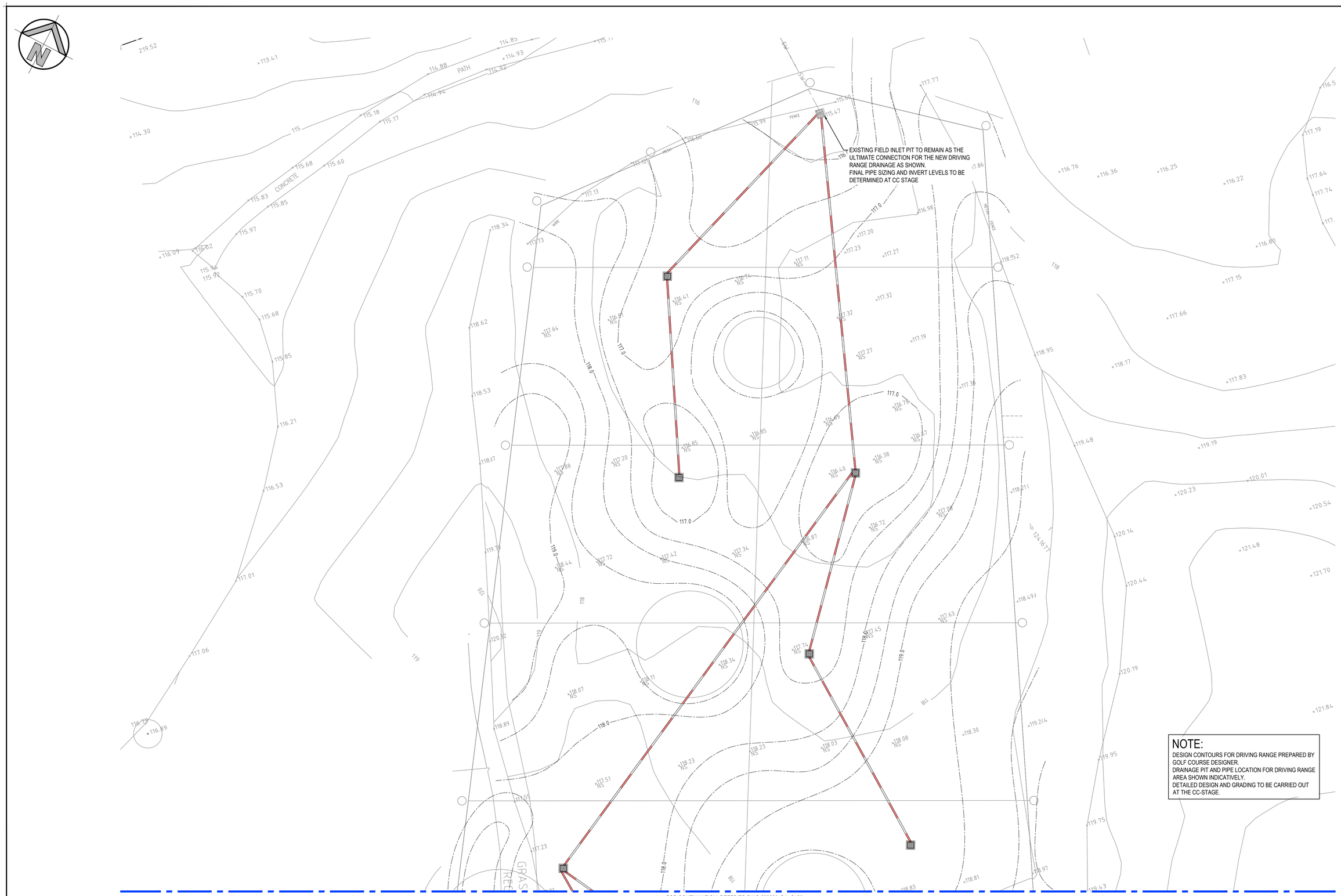
henry&hymas

Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
DETAIL PLAN - LOWER GROUND FLOOR
SHEET 5 OF 6

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:250

Drawing number 230605_DA_C105
Revision 04



FOR CONTINUATION, REFER TO DWG 230605_DA_C105

DETAIL PLAN - LOWER GROUND FLOOR

SCALE 1:250

0 5 10 15 20 25m

5 4 3 2 1

SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL 126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	RE-ISSUED FOR DA ONLY	MB	SY	23.07.2024
03	ISSUED FOR DA ONLY	AFe	SY	07.06.2024
02	ISSUED FOR DA ONLY	MB	SY	14.03.2024
01	ISSUED FOR CO-ORDINATION	MB	SY	13.03.2024

Client
WESTS Group

Architect
ALTIS Architecture

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DRAWING TO BE PRINTED IN COLOUR

henry&hymas

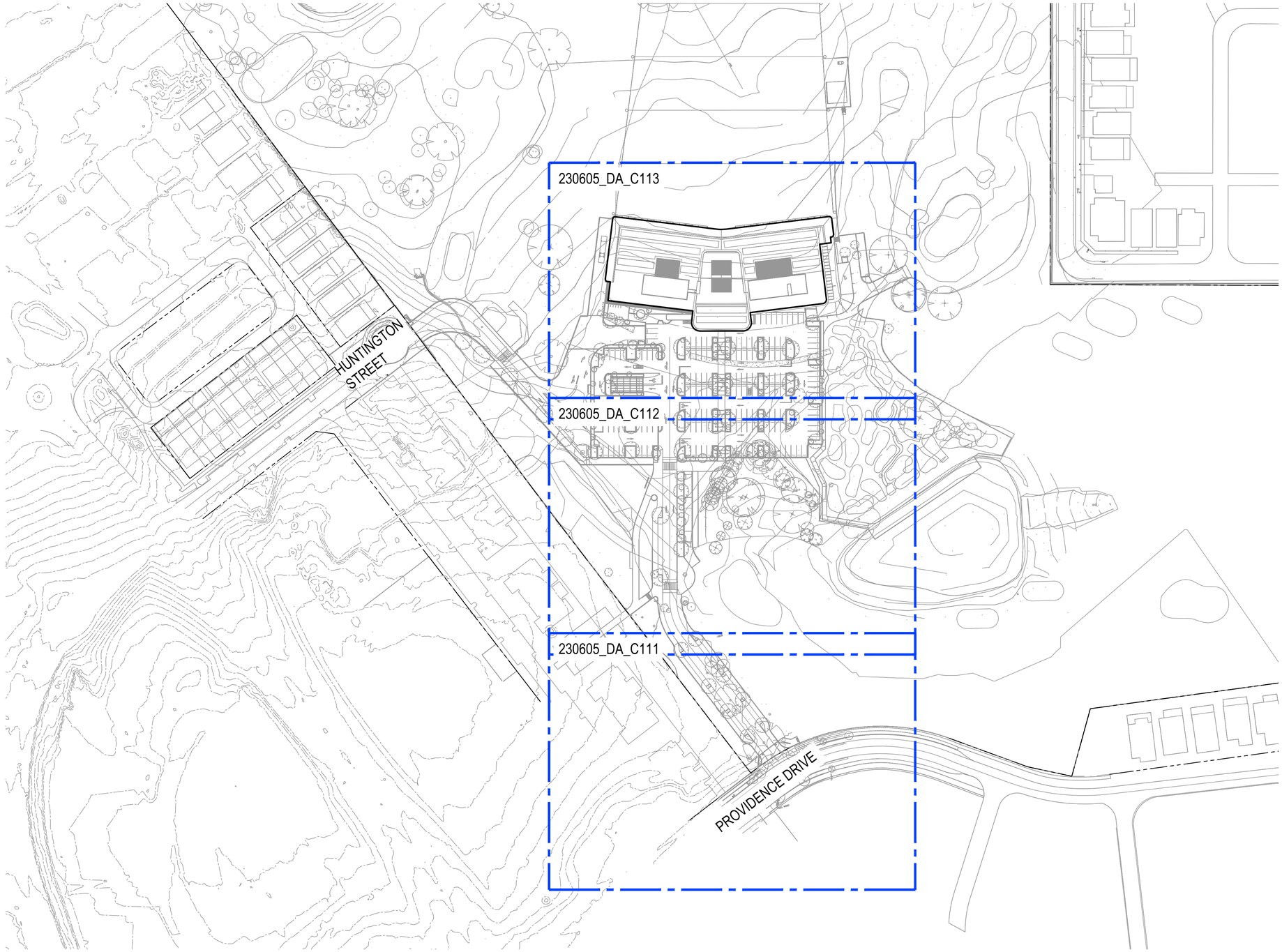
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
DETAIL PLAN - LOWER GROUND FLOOR
SHEET 6 OF 6

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:250

Drawing number: 230605_DA_C106

Revision: 04



LEGEND

- EXISTING BOUNDARY
- EXISTING SURFACE INLET PITS
- SW — EXISTING STORMWATER
- 73.20 — EXISTING CONTOURS
- 72.50 — PROPOSED CONTOURS
- R — PROPOSED RIDGE LINE
- V — PROPOSED VALLEY LINE
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS
- PROPOSED LINTEL ONGRADE & SAG PITS
- A-1 LINE LETTER PIT NUMBER — PROPOSED PIT TAG
- GD-1 — PROPOSED 200mm WIDE GRATED DRAIN MEDIUM DUTY GRATED DRAIN GRATE CLASS "C" OR APPROVED EQUIVALENT
- GD-2 — PROPOSED 150mm WIDE GRATED DRAIN LIGHT DUTY GRATED DRAIN GRATE CLASS "B" OR APPROVED EQUIVALENT
- PROPOSED STORMWATER PIPE
- PROPOSED SWALE
- PROPOSED W-BEAM BARRIER
- PROPOSED ROOF AND GROUND FLOOR DRAINAGE COLLECTION LINE
- PROPOSED BATTER LINE
- RL125.85 — PROPOSED SPOT LEVEL
- K&G — PROPOSED KERB & GUTTER
- IK — PROPOSED INTEGRAL KERB
- MK — PROPOSED CONCRETE MEDIAN KERB
- RW — PROPOSED RETAINING WALL
- LW — PROPOSED LANDSCAPE WALL
- 0.5% FALL — PROPOSED FALL
- PROPOSED HEADWALL
- DP — PROPOSED DOWNPIPE (DP)
- DP — PROPOSED DOWNPIPE WITH SPREADER (DP)
- FALL — PROPOSED GRADING/ FALL
- IR — INTERMEDIATE RISER (IR)
- FP — FLUSHING POINT (FP)

GENERAL ARRANGEMENT PLAN - GROUND FLOOR

SCALE 1:1000

0 20 40 60 80 100m
20 15 10 5
SCALE 1:1000

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	RE-ISSUED FOR DA ONLY	MB	SY	23.07.2024					
03	ISSUED FOR DA ONLY	AFe	SY	07.06.2024					
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01	ISSUED FOR CO-ORDINATION	MB	SY	13.03.2024					

Client
WESTS Group

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ALTIS Architecture

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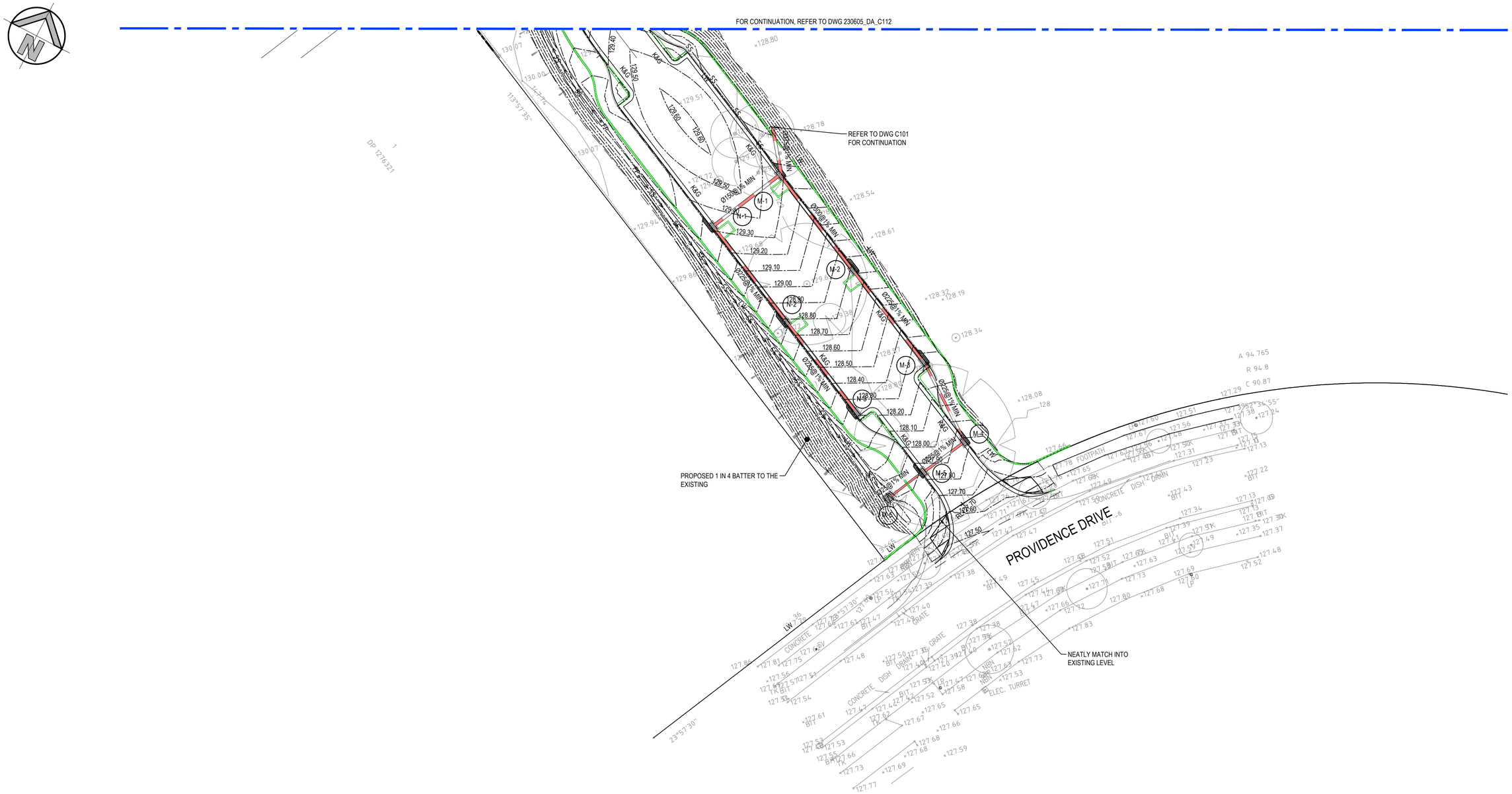
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
GENERAL ARRANGEMENT PLAN
GROUND FLOOR

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	**Approved**	**Scale @A1**
T.Dempsey	A.Francis	1:1000

Drawing number: 230605_DA_C110
Revision: 04



DETAIL PLAN - GROUND FLOOR

SCALE 1:250

0 5 10 15 20 25m

5 4 3 2 1

SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
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03	ISSUED FOR DA ONLY	AFe	SY	07.06.2024					
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01	ISSUED FOR CO-ORDINATION	MB	SY	13.03.2024					

Client
WESTS Group

Architect
ALTIS Architecture

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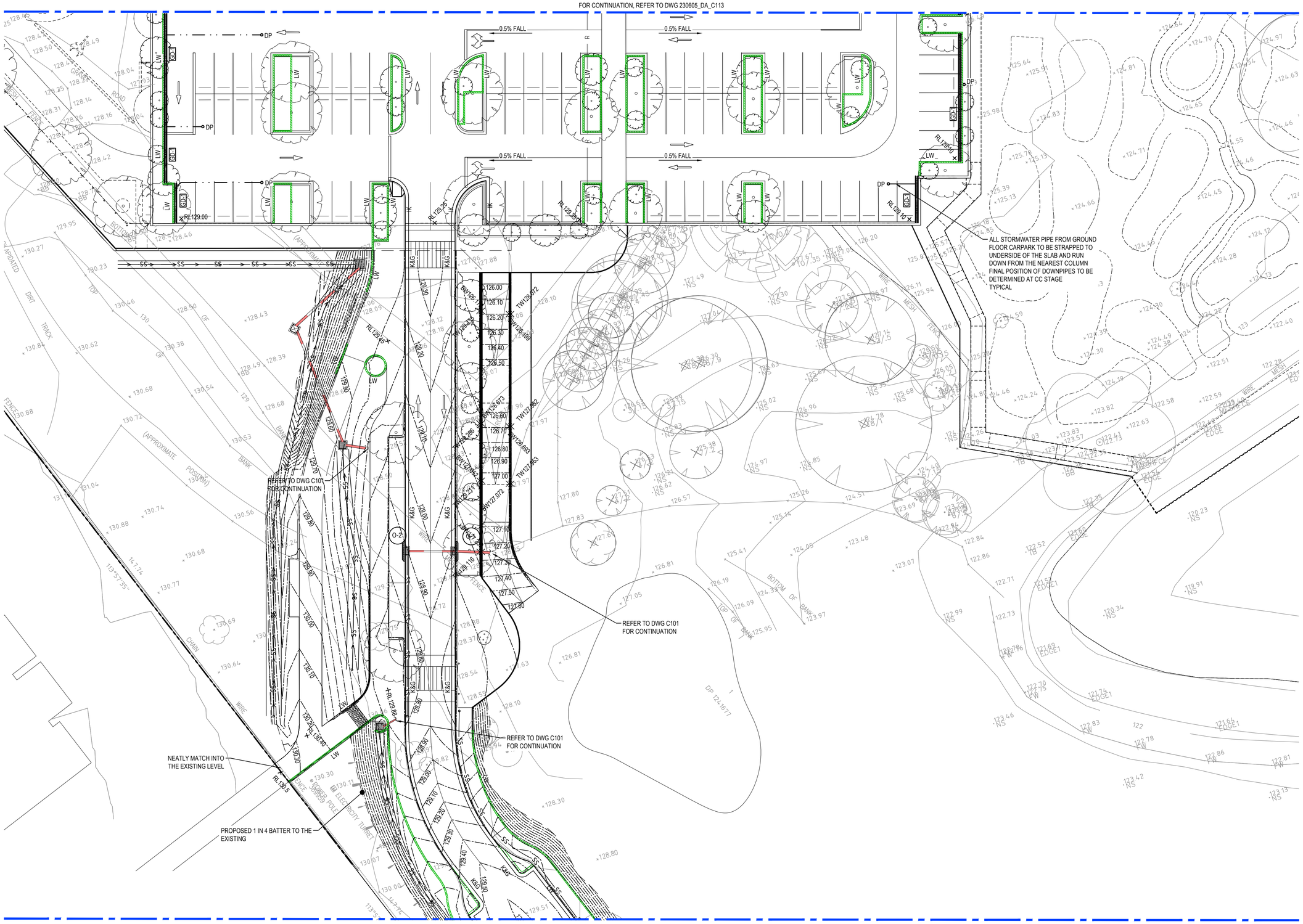
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
DETAIL PLAN - GROUND FLOOR
SHEET 1 OF 3

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:250

Drawing number: 230605_DA_C111

Revision: 04



DETAIL PLAN - GROUND FLOOR

SCALE 1:250

0 5 10 15 20 25m

5 4 3 2 1

SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	RE-ISSUED FOR DA ONLY	MB	SY	23.07.2024
03	ISSUED FOR DA ONLY	AFe	SY	07.06.2024
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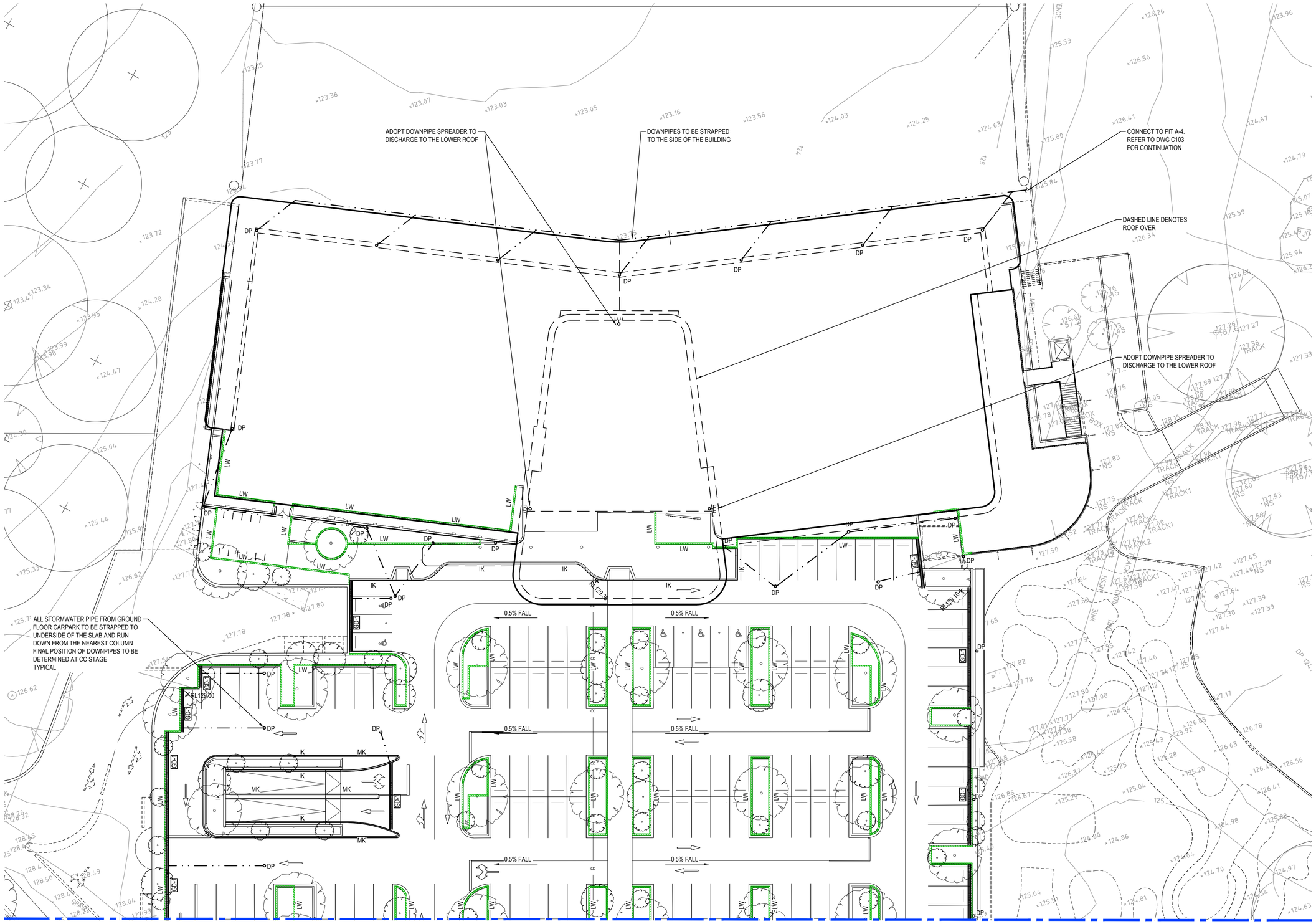
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
DETAIL PLAN - GROUND FLOOR
SHEET 2 OF 3

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:250

Drawing number 230605_DA_C112

Revision 04



FOR CONTINUATION, REFER TO DWG 230605_DA_C112

DETAIL PLAN - GROUND FLOOR

SCALE 1:250

0 5 10 15 20 25m

5 4 3 2 1

SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
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03	ISSUED FOR DA ONLY	AFe	SY	07.06.2024
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01	ISSUED FOR CO-ORDINATION	MB	SY	13.03.2024

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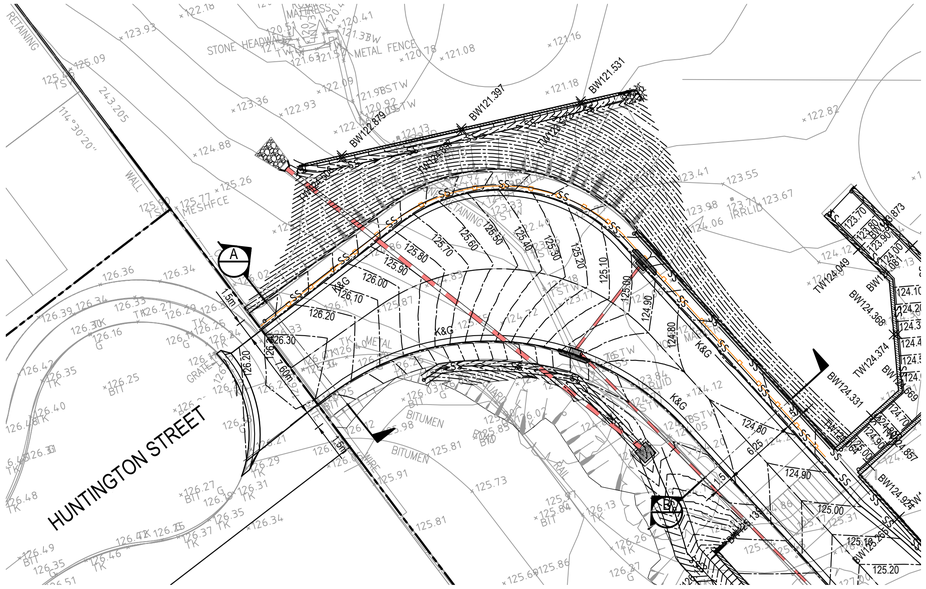
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
DETAIL PLAN - GROUND FLOOR
SHEET 3 OF 3

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:250

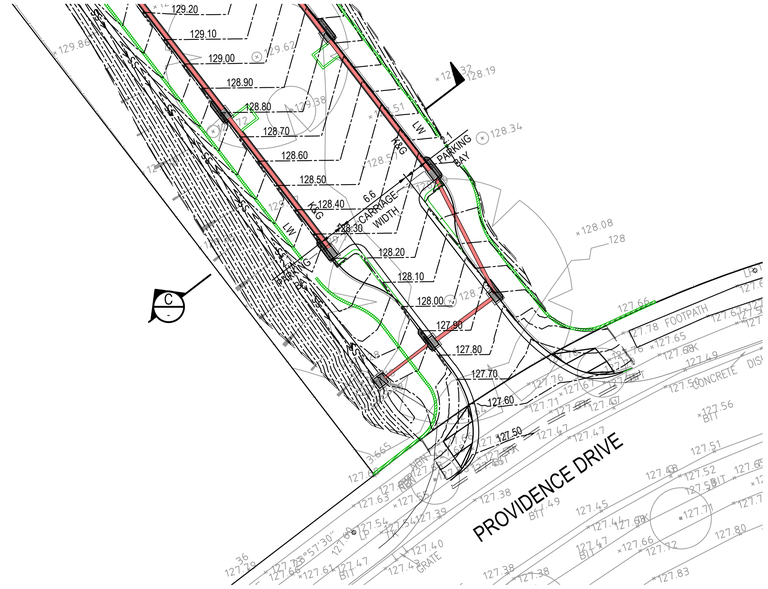
Drawing number: 230605_DA_C113

Revision: 04



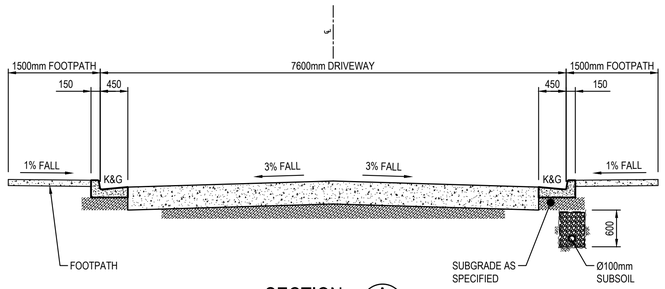
DRIVEWAY PLAN - HUNTINGTON STREET

SCALE 1:250



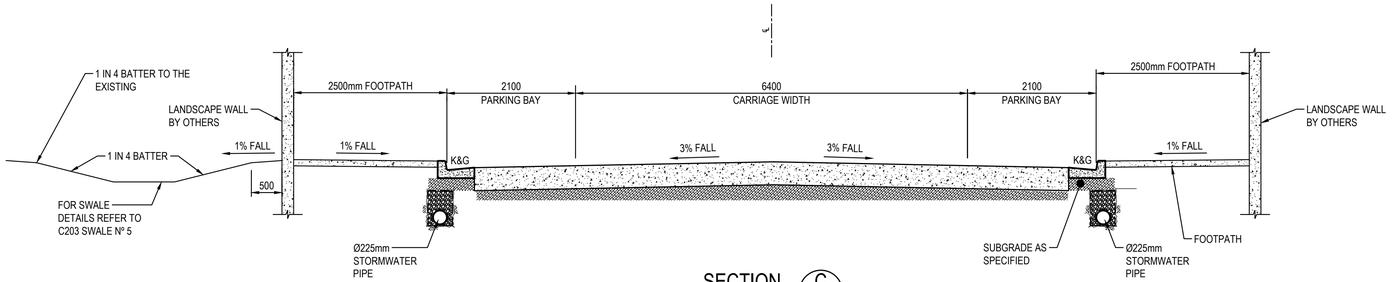
DRIVEWAY PLAN - PROVIDENCE DRIVE

SCALE 1:250



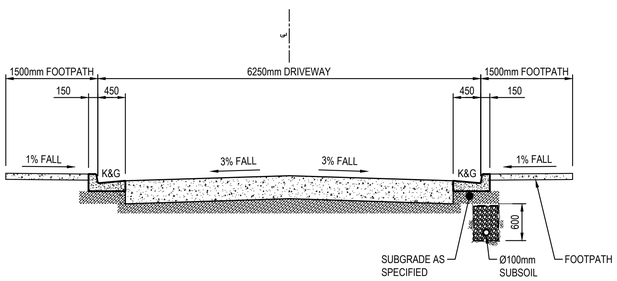
SECTION A

SCALE: 1:50



SECTION C

SCALE: 1:50



SECTION B

SCALE: 1:50

0 1000 2000 3000 4000 5000mm
1000 600 200
SCALE 1:50

0 5 10 15 20 25m
5 4 3 2 1
SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	RE-ISSUED FOR DA ONLY	MB	SY	23.07.2024					
04	ISSUED FOR DA ONLY	AFe	SY	07.06.2024					
03	ISSUED FOR DA ONLY	MB	SY	15.03.2024					
02	ISSUED FOR DA ONLY	MB	SY	14.03.2024					
01	ISSUED FOR CO-ORDINATION	MB	SY	13.03.2024					

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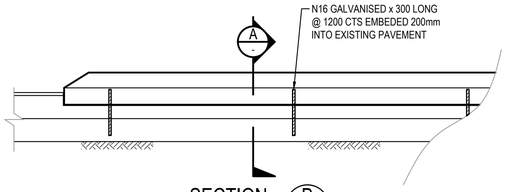
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
TYPICAL ROAD SECTIONS

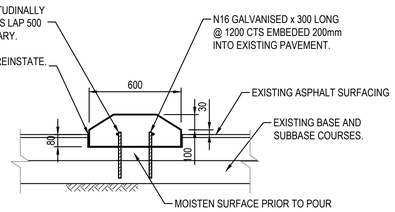
Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	AS NOTED

Drawing number 230605_DA_C120

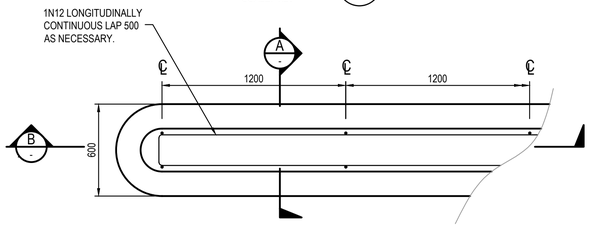
Revision 05



SECTION B
SCALE: 1:20



SECTION A (TYPE SF PROFILE)
SCALE: 1:20

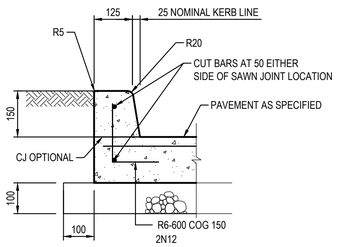


PLAN
SCALE 1:20

NOTE:
HEIGHTS OF MEDIAN ISLAND TO MATCH
EXISTING MEDIAN ISLAND CHECK ON SITE.

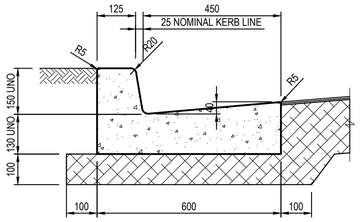
PROPOSED CONCRETE MEDIAN DETAILS - 600mm WIDTH

SCALE 1:20



INTEGRAL KERB (IK)
SCALE 1:10

NOTE:
CONFIRM DIMENSIONS AND DETAILS
WITH LOCAL AUTHORITY



KERB & GUTTER (K&G)
SCALE 1:10

NOTE:
CONFIRM DIMENSIONS AND DETAILS WITH
LOCAL AUTHORITY

0 400 800 1200 1600 2000mm
400 200
SCALE 1:20

0 200 400 600 800 1000mm
200 100
SCALE 1:10

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	RE-ISSUED FOR DA ONLY	MB	SY	23.07.2024					
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Client
WESTS Group

Architect
ALTIS Architecture

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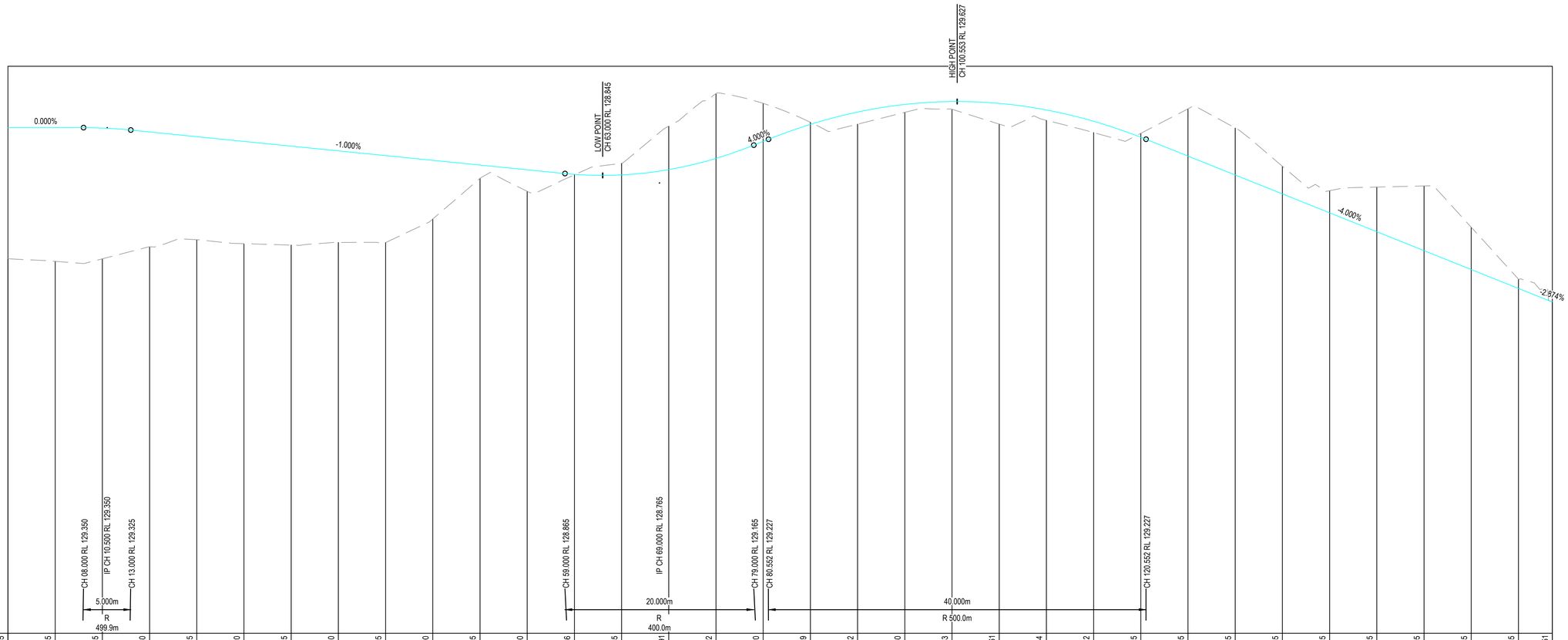
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
TYPICAL DETAILS

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	AS NOTED

Drawing number 230605_DA_C121
Revision 04



DATUM RL 124.000

DESIGN LEVELS	129.35	129.35	129.35	129.30	129.25	129.20	129.15	129.10	129.05	129.00	128.95	128.90	128.86	128.85	128.91	129.02	129.20	129.39	129.52	129.60	129.63	129.61	129.54	129.42	129.25	129.05	128.85	128.65	128.45	128.25	128.05	127.85	127.65	127.51
EXISTING LEVELS	127.96	127.94	127.96	128.09	128.16	128.12	128.11	128.14	128.13	128.38	128.81	128.68	128.85	128.97	129.37	129.71	129.61	129.41	129.39	129.51	129.55	129.39	129.43	129.30	129.29	129.55	129.35	128.94	128.68	128.72	128.73	128.30	127.75	127.51
CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	100.000	105.000	110.000	115.000	120.000	125.000	130.000	135.000	140.000	145.000	150.000	155.000	160.000	163.588

ROAD 1 - LONGITUDINAL SECTION - PROVIDENCE DRIVE

SCALE 1:250(H)/1:25(V)

0 500 1000 1500 2000 2500mm
500 300 100
SCALE 1:25

0 5 10 15 20 25m
5 4 3 2 1
SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
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01	ISSUED FOR DA ONLY	AFe	SY	07.06.2024

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Architect
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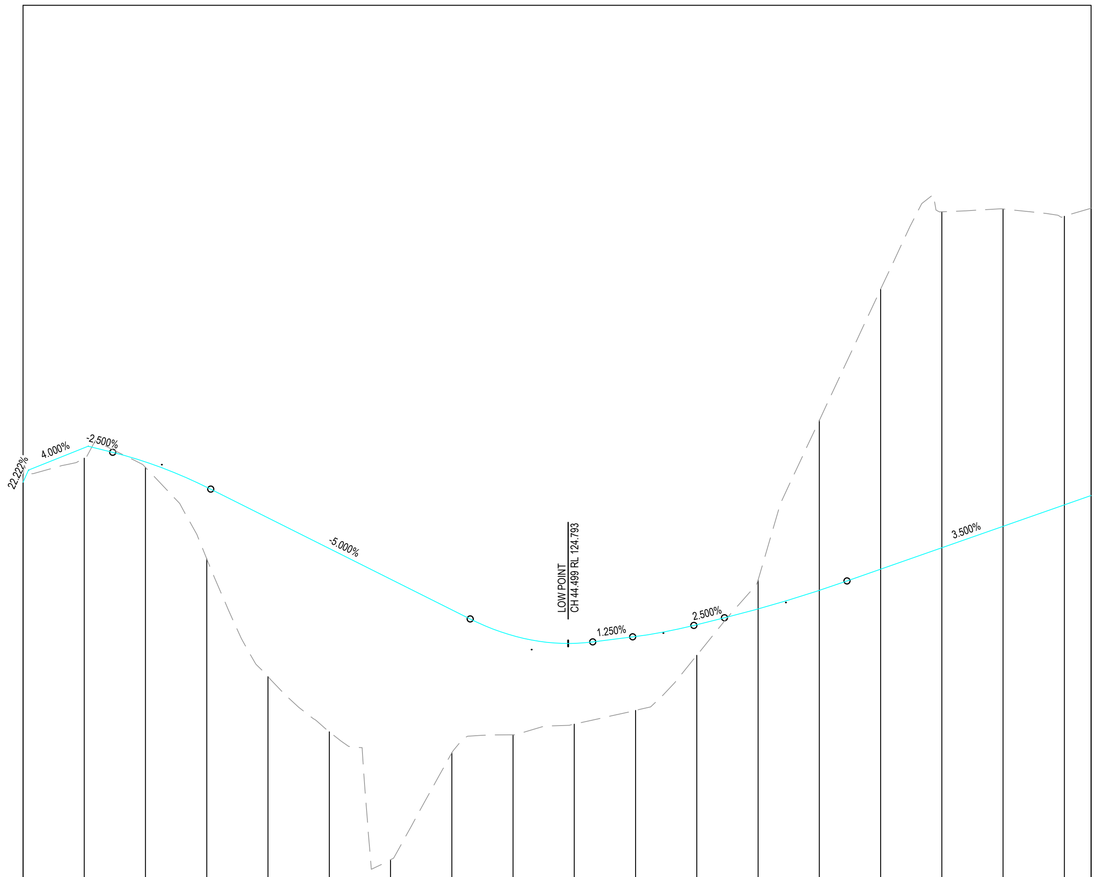
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
ROAD LONGITUDINAL SECTIONS
-SHEET 1 OF 2

Drawn	Designed	Original issue date
A.Fernandes	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	AS NOTED

Drawing number 230605_DA_C150
Revision 02



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		8.000m						10.000m			5.000m			10.000m				
		R 320.0m						R 160.0m			R 400.0m			R 1000.0m				
DATUM RL 120.000																		
DESIGN LEVELS	126.11	126.39	126.27	126.07	125.82	125.57	125.32	125.07	124.86	124.79	124.85	124.95	125.08	125.23	125.40	125.57	125.75	125.92	126.00
EXISTING LEVELS	126.11	126.30	126.23	125.48	124.52	124.07	123.03	123.90	124.05	124.13	124.25	124.70	125.31	126.61	127.68	128.31	128.34	128.28	128.34
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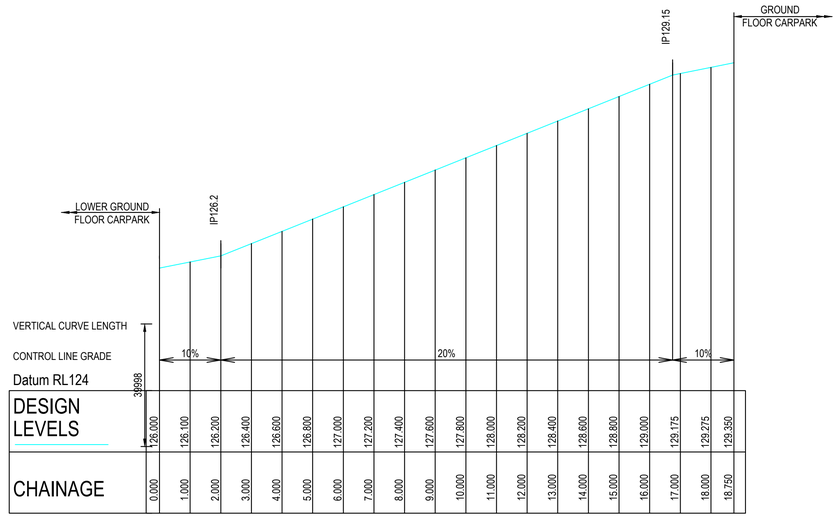
ROAD 2 - LONGITUDINAL SECTION - HUNTINGTON STREET

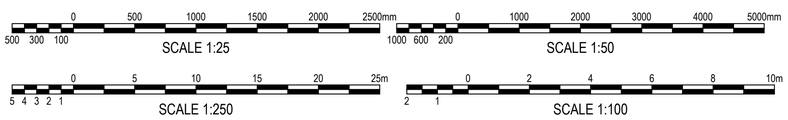
SCALE 1:250(H)/1:25(V)



DESIGN LEVELS	126.000	126.100	126.200	126.400	126.600	126.800	127.000	127.200	127.400	127.600	127.800	128.000	128.200	128.400	128.600	128.800	129.000	129.175	129.275	129.350
CHAINAGE	0.000	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	10.000	11.000	12.000	13.000	14.000	15.000	16.000	17.000	18.000	18.750

LONGITUDINAL SECTION - INTER LEVEL RAMP

HORIZONTAL SCALE 1:100@A1
VERTICAL SCALE 1:50@A1



FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL 126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	RE-ISSUED FOR DA ONLY	MB	SY	23.07.2024					
01	ISSUED FOR DA ONLY	AFe	SY	07.06.2024					

Client
WESTS Group

Architect
ALTIS Architecture

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DRAWING TO BE PRINTED IN COLOUR

henry&hymas

Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
ROAD LONGITUDINAL SECTIONS
-SHEET 2 OF 2

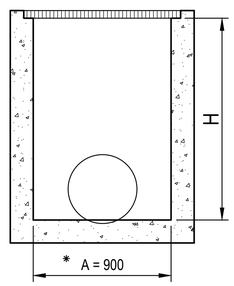
Drawn	Designed	Original issue date
A.Fernandes	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	AS NOTED

Drawing number: 230605_DA_C151
Revision: 02

TYPICAL PIT CHAMBER SIZES

IT IS THE CONTRACTORS RESPONSIBILITY TO SELECT PIT CHAMBER SIZE WITH REGARDS TO PIPE SIZE, DEPTH TO INVERT AND SKEW ANGLE. REFER SKETCHES BELOW.

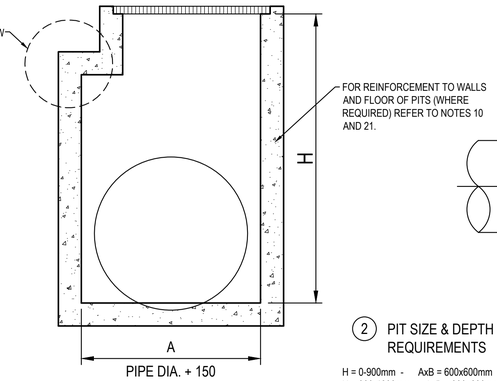
1. SELECT PIT CHAMBER USING THE STEPS BELOW:
2. SELECT PIT CHAMBER SIZE DEPENDING ON THE PIPE DIAMETERS.
3. CHECK PIT CHAMBER SIZE TO SATISFY DEPTH TO INVERT REQUIREMENTS.
   CHECK PIT CHAMBER DIMENSIONS TO SATISFY THE SKEW ANGLE IN THE TABLE.



SECTION
NTS

*A = 600 FOR PIPES UP TO 375 DIA.

1 PIT CHAMBER DIMENSIONS FOR PIPES UP TO 600 DIA.



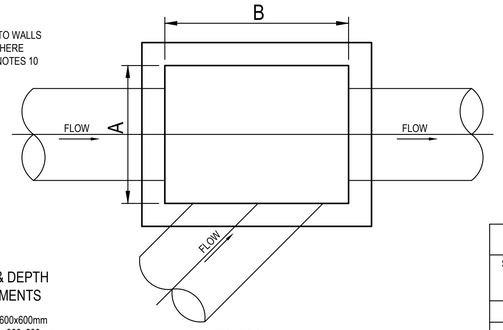
SECTION
NTS

1 PIT CHAMBER FOR PIPES GREATER THAN 600 DIA.

FOR B = 600mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 225mm
FOR B = 900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 375mm
FOR B = 1200mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 600mm
FOR B = 1500mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 825mm
FOR B = 1900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 1050mm

2 PIT SIZE & DEPTH REQUIREMENTS

H = 0-900mm - AxB = 600x600mm
H = 900-1200mm - AxB = 900x600mm
H = >1200mm - AxB = 900x900mm



PLAN
NTS

3 PIT CHAMBER FOR SIDE ENTRY ON SKEW

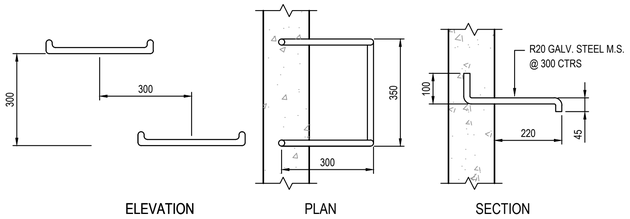
TABLE 1	
SIEVE SIZE (MM)	WEIGHT PASISNG (%)
75.0	100
9.5	100 TO 50
2.36	100 TO 30
0.60	50 TO 15
0.075	25 TO 0

TABLE 2	
SIEVE SIZE (MM)	WEIGHT PASISNG (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

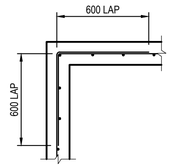
TABLE 3				
SUPPORT TYPE	BED ZONE X	HAUNCH ZONE Y	BED AND HAUNCH ZONES COMPACTION	MAX BEDDING FACTOR
HS1	100 IF D<=1500, OR 150 IF D>=1500	0.1D	50	2.0
HS2		0.3D	60	2.5
HS3		0.3D	70	4.0

PIT LID SCHEDULE

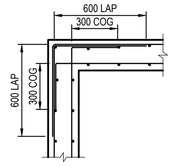
PIT/STRUCTURE NUMBER	DESCRIPTION
A-1, A-2, A-3, B-1, B-2, B-3, B-4, B-5, C-1, C-2, C-3, C-4, D-1, E-1, F-1, G-2, H-2, Q-1	PROPOSED INLET PIT WITH 900x900 HINGED MEDIUM DUTY GRATED LID CLASS "C" IN ACCORDANCE WITH CAMDEN COUNCIL'S REQUIREMENT OR APPROVED EQUIVALENT
G-4, L-1	PROPOSED INLET PIT WITH 1200x1200 HINGED MEDIUM DUTY GRATED LID CLASS "C" IN ACCORDANCE WITH CAMDEN COUNCIL'S REQUIREMENT OR APPROVED EQUIVALENT
H-1	PROPOSED BASIN OUTLET WITH 2000x2000 HINGED LIGHT DUTY GRATED LID CLASS "B" IN ACCORDANCE WITH CAMDEN COUNCIL'S REQUIREMENT OR APPROVED EQUIVALENT
G-3, I-1, I-2, I-3, I-4, I-5, I-6, I-7, K-1, K-2	PROPOSED JUNCTION PIT WITH 900x900 LIGHT DUTY SEALED LID CLASS "B" IN ACCORDANCE WITH CAMDEN COUNCIL'S REQUIREMENT OR APPROVED EQUIVALENT
HW-1, HW-2, HW-3, HW-4	PROPOSED HEADWALL
J-2, J-3, O-1, O-2	PROPOSED SAG KERB INLET PIT WITH 2.4m LINTEL AND MEDIUM DUTY GRATED LID CLASS "C" IN ACCORDANCE WITH CAMDEN COUNCIL'S REQUIREMENT
J-1, M-1, M-2, M-3, M-4, M-5, N-1, N-2, N-3	PROPOSED ON GRADE KERB INLET PIT WITH 1.8m LINTEL AND MEDIUM DUTY GRATED LID CLASS "C" IN ACCORDANCE WITH CAMDEN COUNCIL'S REQUIREMENT
K-3, M-6	PROPOSED INLET PIT WITH 900x900 HINGED LIGHT DUTY GRATED LID CLASS "B" IN ACCORDANCE WITH CAMDEN COUNCIL'S REQUIREMENT OR APPROVED EQUIVALENT
P-1, P-2, P-3	PROPOSED INLET PIT WITH 900x900 HINGED LIGHT DUTY GRATED LID CLASS "B" WITH OCEANGUARD INSERT IN ACCORDANCE WITH CAMDEN COUNCIL'S REQUIREMENT OR APPROVED EQUIVALENT



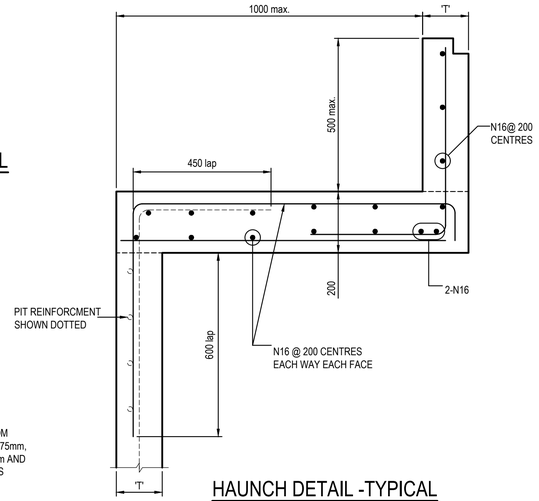
TYPICAL STEP IRON DETAIL
SCALE 1:10



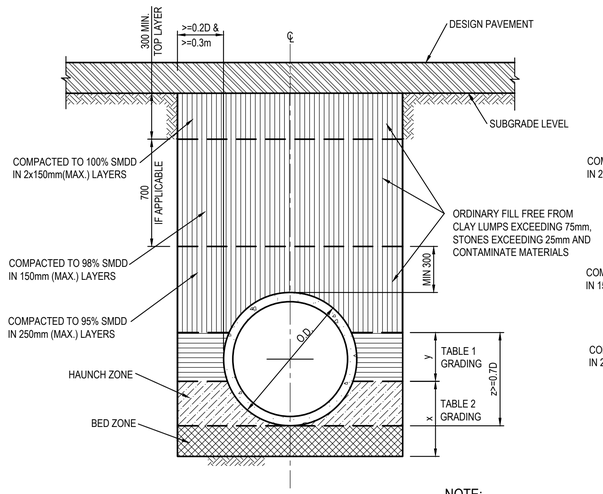
150 WALL - CORNER DETAIL
SCALE 1:20



200 WALL - CORNER DETAIL
SCALE 1:20

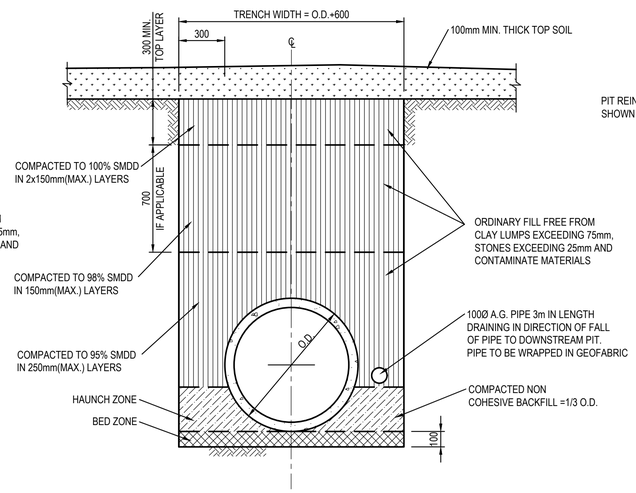


HAUNCH DETAIL -TYPICAL
SCALE N.T.S



PIPE TRENCH INSTALLATION BENEATH PAVEMENT
(HS SUPPORT TO BE USED UNDER ROADWAY)
SCALE 1:20

NOTE:
TYPE HS2 TO BE USED AS A TYPICAL SUPPORT FOR TRENCHES UNDER ROADWAY UNLESS SPECIFIED SEPERATELY



PIPE TRENCH INSTALLATION IN LANDSCAPE AREAS
(H1 & H2 SUPPORT)
SCALE 1:20

DRAINAGE NOTES:

1. ALL STORMWATER WORK TO COMPLY WITH AS 3500 PART 3.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MINIMUM COVER OF 600mm ON ALL PIPES.

3. PROTECTION OF PIPES DUE TO LOADS EXCEEDING W7 WHEEL LOAD SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

4. BEDDING TYPE SHALL BE TYPE H2 FOR RCP. WHERE NECESSARY THE OVERLAY ZONE SHALL BE REDUCED TO ACCOMMODATE PAVEMENT REQUIREMENTS. REFER TO THIS DRAWING FOR DETAILS.

5. MINIMUM COVER OVER EXISTING PIPES FOR PROTECTION DURING CONSTRUCTION SHALL BE 800mm.

6. NO CONSTRUCTION LOADS SHALL BE APPLIED TO PLASTIC PIPES.

7. FINISHED SURFACE LEVELS SHOWN ON LAYOUT PLAN DRGS TAKE PRECEDENCE OVER DESIGN DRAINAGE SURFACE LEVELS.

8. ALL PIPES UP TO AND INCLUDING 300 DIA. SHALL BE SOLVENT OR RUBBER RING JOINTED PVC CLASS SH PIPE TO AS1260. ALL OTHER PIPES TO BE RCP USING CLASS 2 RUBBER RING JOINTED PIPE. HARDIES FRC PIPE MAY BE USED IN LIEU OF RCP IF DESIRED IN GROUND. ALL AERIAL PIPES TO BE PVC CLASS SH.

9. ALL PITS IN NON TRAFFICABLE AREAS TO BE PREFABRICATED POLYESTER CONCRETE "POLYCRETE" WITH "LIGHT DUTY" CLASS B GALV. MILD STEEL GRATING AND FRAME.
ALL PITS IN TRAFFICABLE AREAS (CLASS "D" LOADING MAX) TO HAVE 150mm THICK CONCRETE WALLS AND BASE CAST IN-SITU f'c=32 MPa, REINFORCED WITH N12-200 BOTH LOADING WAYS CENTRALLY PLACE .U.N.O. ON SEPARATE DESIGN DRAWINGS IN THIS SET. GALV.MILD STEEL GRATING AND FRAME TO SUIT DESIGN LOADING. PRECAST PITS, RECTANGULAR OR CIRCULAR IN SHAPE, MAY BE USED IN LIEU AND SHALL COMPLY WITH RELEVANT AUSTRALIAN STANDARDS.

10. ALL PITS, GRATINGS AND FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND TO BE IN ACCORDANCE WITH AS3500.3 AND AS3996.

11. PIT CHAMBER DIMENSIONS ARE TO BE SELECTED TO SATISFY THE FOLLOWING:
- PIPE SIZE
- DEPTH TO INVERT
- SKEW ANGLE
  REFER TYPICAL PIT CHAMBER DETAILS BELOW
IF PIT LID SIZE IS SMALLER THAN THE PIT CHAMBER SIZE THEN THE PIT LID IS TO BE CONSTRUCTED ON THE CORNER OF THE PIT CHAMBER WITH THE STEP IRONS DIRECTLY BELOW. ALTERNATIVELY THE PIT LID TO BE USED, IS TO BE THE SAME SIZE AS THE PIT CHAMBER.

12. FOR PIPE SIZES GREATER THAN Ø300mm, PIT FLOOR IS TO BE BENCHED TO FACILITATE FLOW.

13. GALVANISED STEP IRONS SHALL BE PROVIDED AT 300 CTS FOR PITS HAVING A DEPTH EXCEEDING 1200mm. SUBSOIL DRAINAGE PIPE SHALL BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES. (MINIMUM LENGTH 3m).

14. ALL SUBSOIL PIPES SHALL BE 100mm SLOTTED PVC IN A FILTER SOCK, UNO, WITH 3m INSTALLED UPSTREAM OF ALL PITS.

15. ALL PIPEWORK SHALL HAVE MINIMUM DIAMETER 100.

16. MINIMUM GRADE FOR ROOFWATER DRAINAGE LINES SHALL BE 1%.

17. ALL PIPE JUNCTIONS AND TAPER UP TO AND INCLUDING 300 DIA. SHALL BE VIA PURPOSE MADE FITTINGS.

18. ALL ROOF DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH AS3500, PART 3. TESTING TO BE UNDERTAKEN AND REPORTS PROVIDED TO THE SUPERINTENDENT.

19. LOCATION OF THE DIRECT DOWN PIPE CONNECTIONS MAY VARY ON SITE TO SUIT SITE CONDITIONS, WHERE CONNECTION SHOWN ON LONG SECTIONS CHAINAGES ARE INDICATIVE ONLY.

20. PITS IN EXCESS OF 1.5 m DEEP TO HAVE WALL AND FLOOR THICKNESS INCREASED TO 200mm. REINFORCED WITH N12@200 CTS CENTRALLY PLACED BOTH WAYS THROUGHOUT U.N.O.ON SEPARATE DESIGN DRAWINGS IN THIS SET. IF DEPTH EXCEEDS 5m CONTACT ENGINEER.

21. SUBSOIL DRAINAGE LINES FOR LANDSCAPE AREA NOT SHOWN ON THESE DRAWINGS. REFER TO LANDSCAPING PLANS FOR DETAILS.

22. ALL STORMWATER PITS TO HAVE Ø100 uPVC SLOTTED SUBSOIL PIPES CONNECTED TO THEM. THESE SUBSOILS TO EXTEND 3m UPSTREAM OF THE PIT AT A MINIMUM GRADE.

0 200 400 600 800 1000mm
200 100
SCALE 1:10

0 400 800 1200 1600 2000mm
400 200
SCALE 1:20

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	RE-ISSUED FOR DA ONLY	MB	SY	23.07.2024					
03	ISSUED FOR DA ONLY	AFe	SY	07.06.2024					
02	ISSUED FOR DA ONLY	MB	SY	14.03.2024					
01	ISSUED FOR CO-ORDINATION	MB	SY	13.03.2024					

Client: WESTS Group
Architect: ALTIS Architecture

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DRAWING TO BE PRINTED IN COLOUR

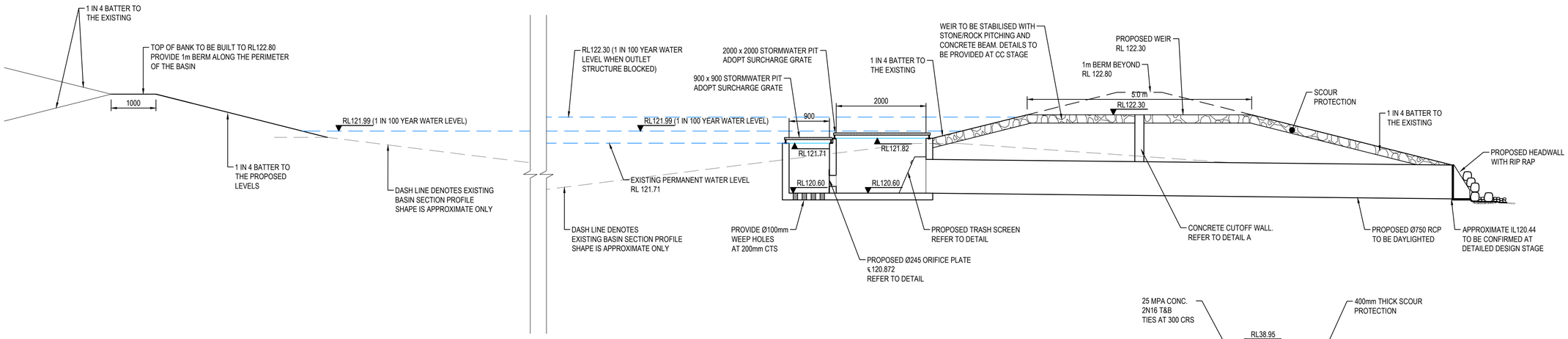
henry&hymas

Project: THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

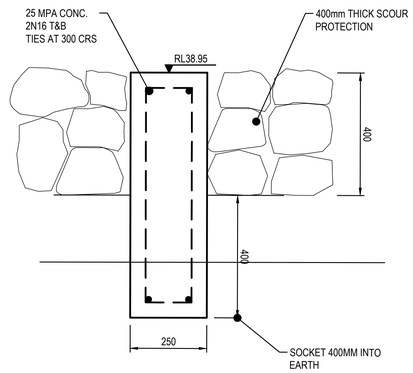
Title: STORMWATER MISCELLANEOUS DETAILS AND PIT LID SCHEDULE

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	AS NOTED

Drawing number: 230605_DA_C200
Revision: 04



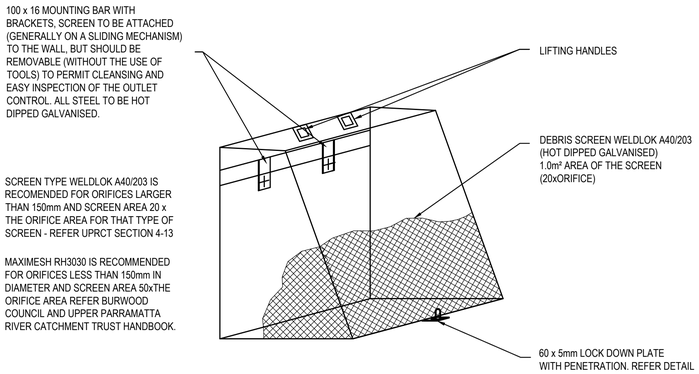
SECTION A / C102
SCALE: 1:50



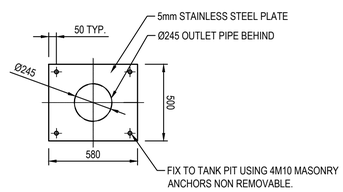
DETAIL A / -
SCALE: 1:10

STORM EVENT	PRE-DEVELOPMENT FLOW (m^3/s)	POST-DEVELOPMENT FLOW (m^3/s)	WATER LEVEL (M)
50% AEP	0.138	0.096	121.80
20% AEP	0.359	0.195	121.86
10% AEP	0.538	0.339	121.90
5% AEP	0.737	0.473	121.93
2% AEP	0.938	0.623	121.96
1% AEP	1.14	0.791	121.99

REFER TO DRAINS MODEL "230605 PRE DEVELOPMENT-REV 01.drn" and "230605 POST DEVELOPMENT-REV 01.drn" FOR OSD CALCULATIONS



DEBRIS SCREEN DETAIL
NOT TO SCALE
ALL STEEL TO BE HOT DIPPED GALVANISED



ORIFICE PLATE DETAIL
SCALE 1:20

	Capacity (m3/s)	100 Year Flow (m3/s)
Q(m3/s)	2.136117974	1.871
C	2	
w (width over the weir)	6.5 (Assumed 50% Capacity)	
hw (depth of water head over weir)	0.3	

$$Q = C \cdot w \cdot h_w^{1.5}$$

where Q is flowrate (m3/s),

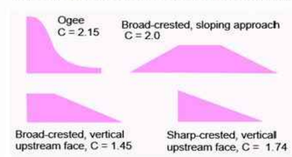
C is a weir coefficient,

w is the width (m) of the weir section over which flow occurs,

h_w is the depth (m).

Slightly different relationships apply to triangular V-notch and other non-rectangular weirs.

Weir coefficients depend on the efficiency of the weir, which is related to the smoothness of flow paths over it. A weir is more efficient if it requires less head to convey a given flowrate. Possible values for weir coefficients are shown below:



0 200 400 600 800 1000mm
200 100
SCALE 1:10

0 400 800 1200 1600 2000mm
400 200
SCALE 1:20

0 1000 2000 3000 4000 5000mm
1000 600 200
SCALE 1:50

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL 126.541

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Client
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Architect
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DRAWING TO BE PRINTED IN COLOUR

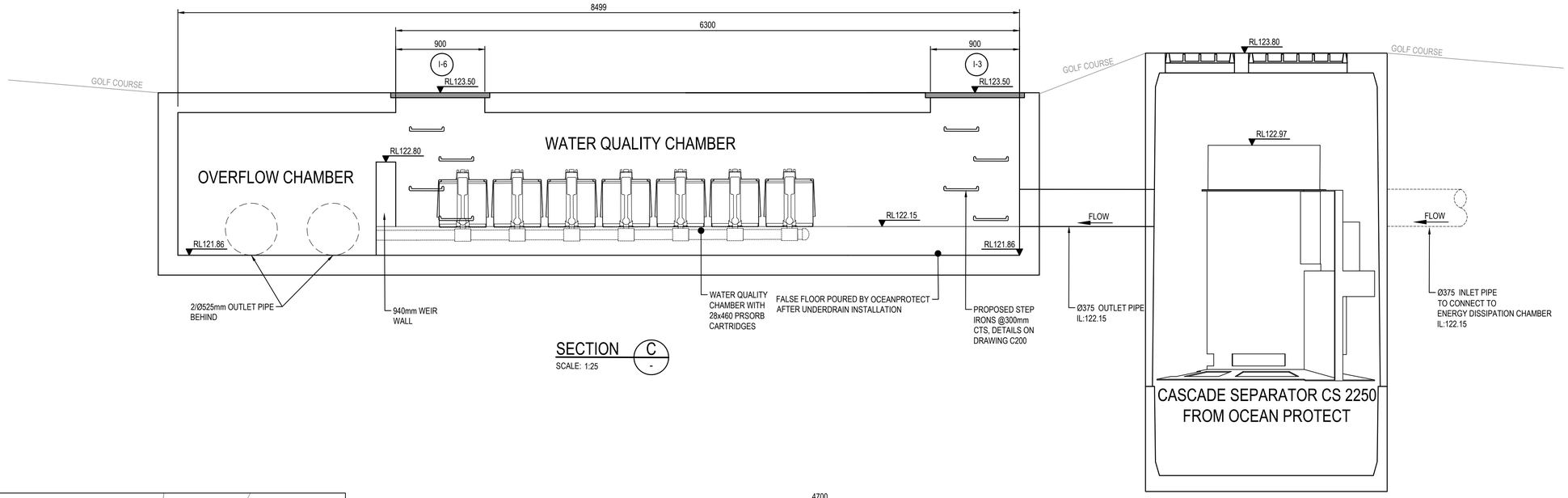
henry&hymas

Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

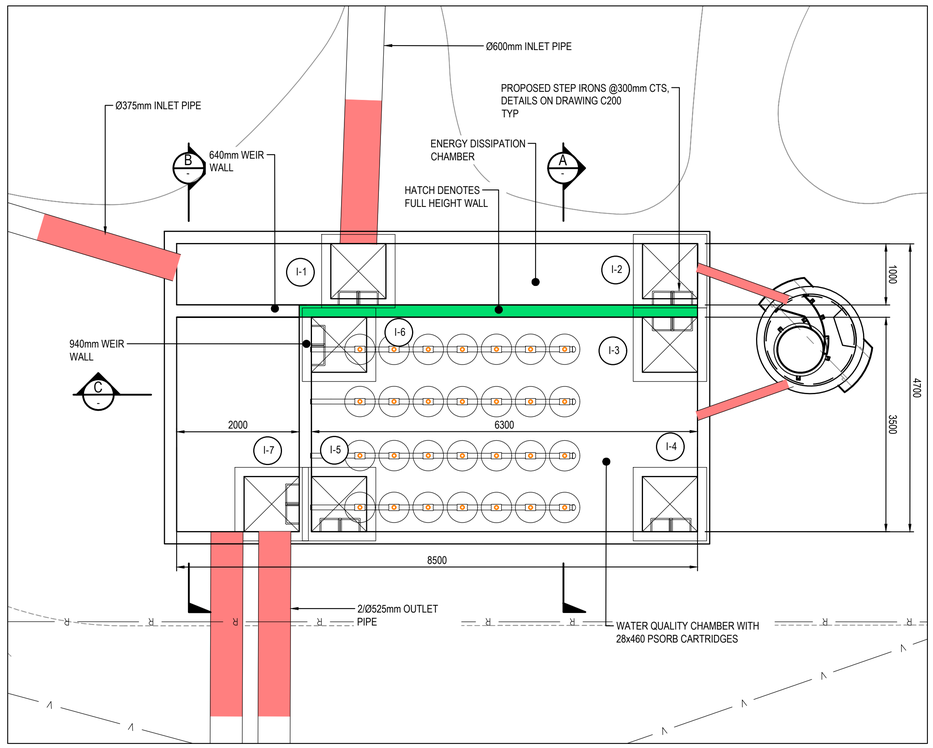
Title
OSD BASIN SECTION AND DETAILS

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	AS NOTED

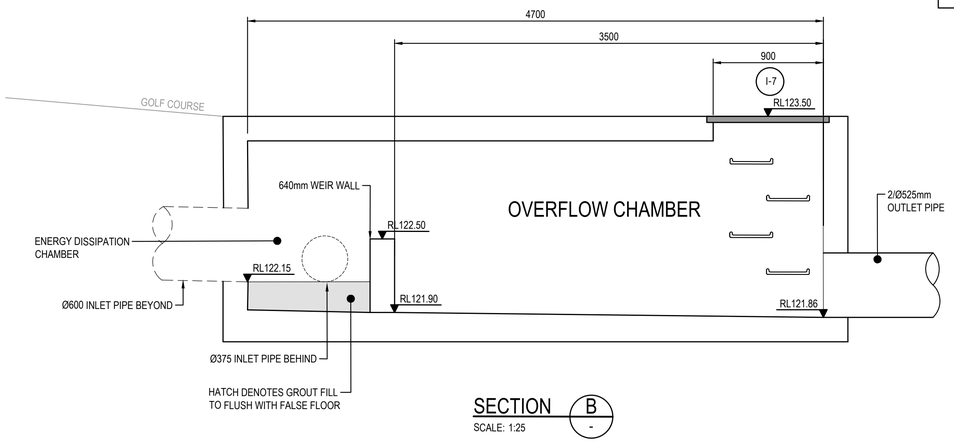
Drawing number 230605_DA_C201
Revision 04



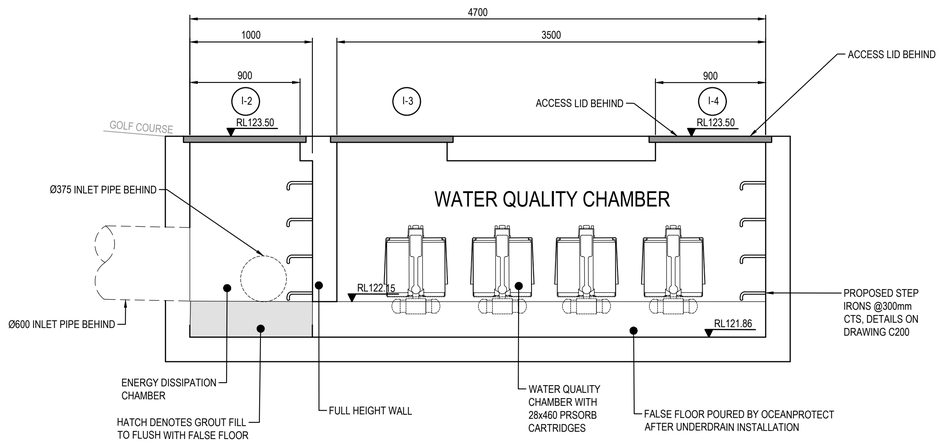
SECTION C
SCALE: 1:25



WATER QUALITY CHAMBER PLAN
SCALE 1:50



SECTION B
SCALE: 1:25



SECTION A
SCALE: 1:25

0 1000 2000 3000 4000 5000mm
1000 600 200
SCALE 1:50

0 500 1000 1500 2000 2500mm
500 300 100
SCALE 1:25

FOR DA ONLY

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HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
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04	RE-ISSUED FOR DA ONLY	MB	SY	23.07.2024					
03	ISSUED FOR DA ONLY	AFe	SY	07.06.2024					
02	ISSUED FOR DA ONLY	MB	SY	14.03.2024					
01	ISSUED FOR CO-ORDINATION	MB	SY	13.03.2024					

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WESTS Group

Architect
ALTIS Architecture

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DRAWING TO BE PRINTED IN COLOUR

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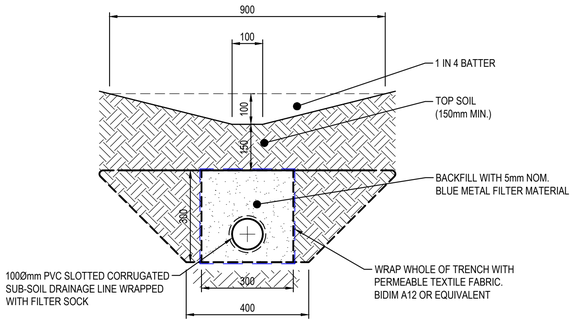
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
WATER QUALITY CHAMBER PLAN AND SECTIONS

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	AS NOTED

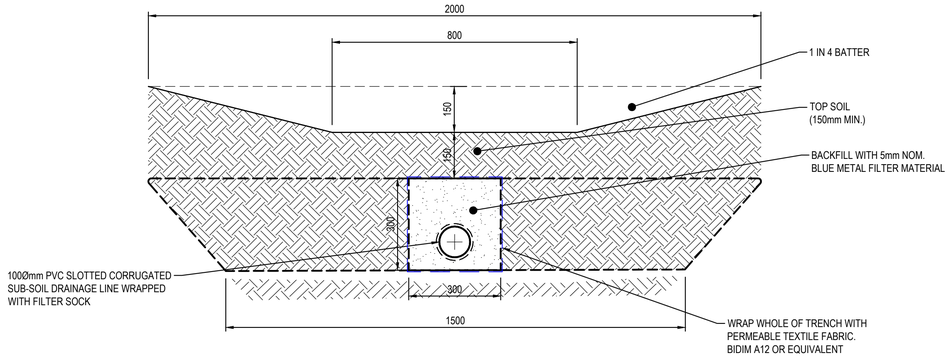
Drawing number 230605_DA_C202
Revision 04



SUBSOIL DRAIN DETAIL IN 100mm BASE SWALES Nº1

SCALE 1:10

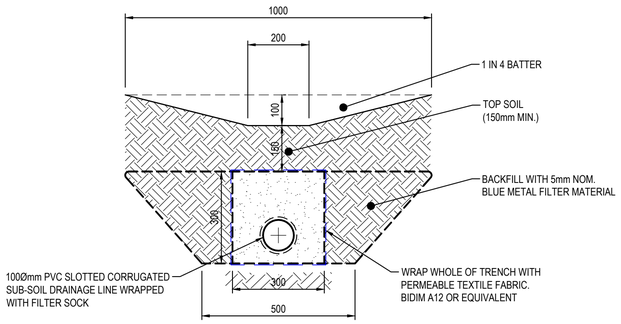
SWALE SUBSOIL NOT SHOWN ON PLAN FOR CLARITY.



SUBSOIL DRAIN DETAIL IN 800mm BASE SWALES Nº2

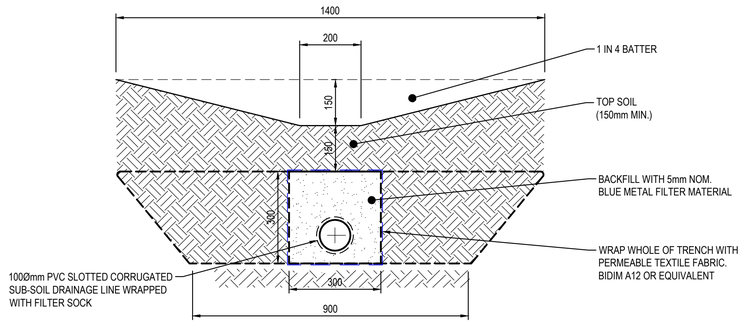
SCALE 1:10

SWALE SUBSOIL NOT SHOWN ON PLAN FOR CLARITY.



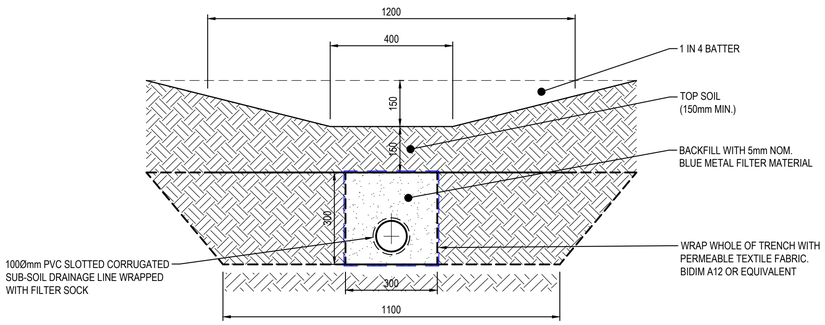
SUBSOIL DRAIN DETAIL IN 200mm BASE SWALES Nº3

SCALE 1:10



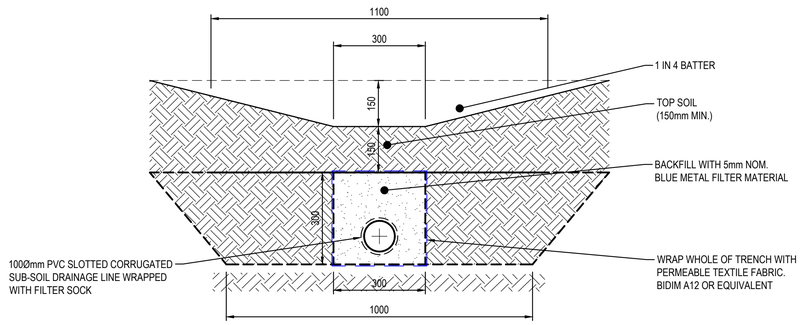
SUBSOIL DRAIN DETAIL IN 200mm BASE SWALES Nº4

SCALE 1:10



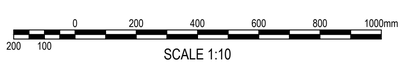
SUBSOIL DRAIN DETAIL IN 400mm BASE SWALES Nº5

SCALE 1:10



SUBSOIL DRAIN DETAIL IN 300mm BASE SWALES Nº6

SCALE 1:10



SCALE 1:10

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SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	RE-ISSUED FOR DA ONLY	MB	SY	23.07.2024					
01	ISSUED FOR DA ONLY	AFe	SY	07.06.2024					

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WESTS Group

Architect
ALTIS Architecture

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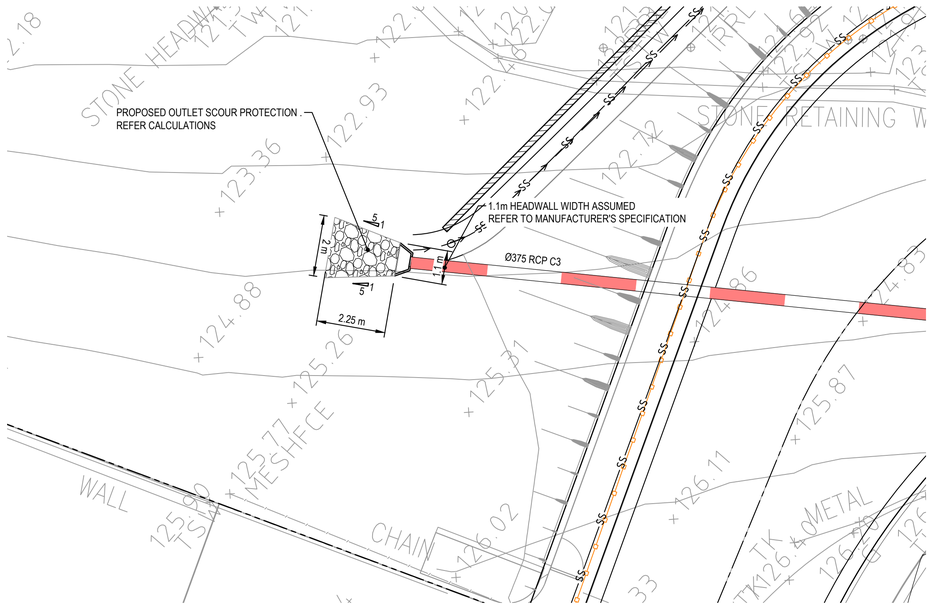
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
SWALE TYPICAL DETAILS

Drawn	Designed	Original issue date
A.Fernandes	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	AS NOTED

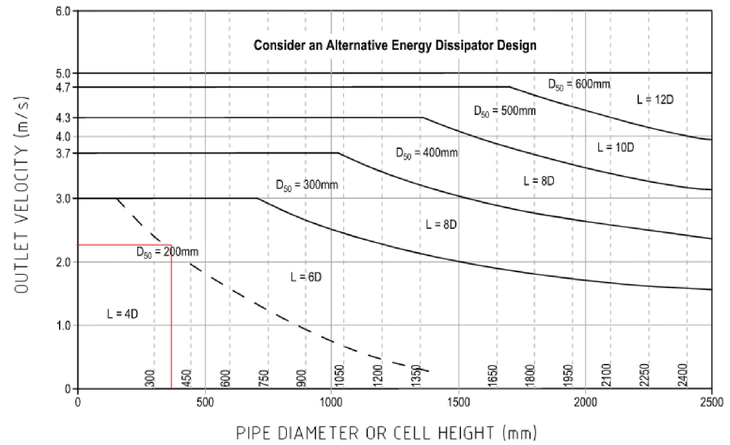
Drawing number: 230605_DA_C203

Revision: 02



OUTLET HEADWALL

SCALE: 1:100

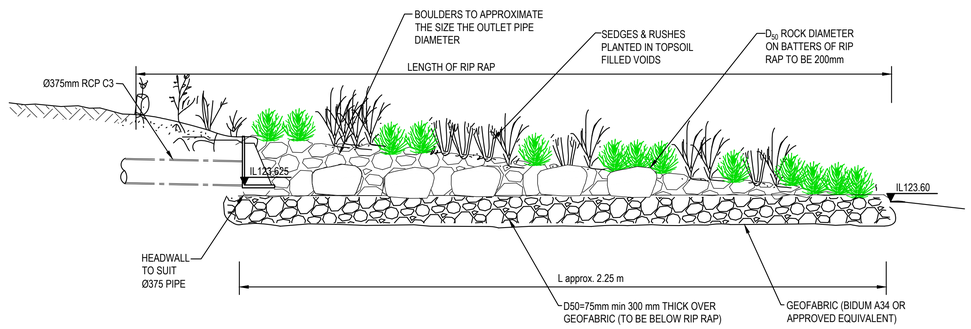


SIZING OF STORMWATER OUTLET SCOUR PROTECTION CHART

SCALE: N.T.S.

SCOUR PROTECTION FROM N25.5

(USING BLACKTOWN CITY COUNCIL METHOD)
VELOCITY = 2.40m/s REFER TO DRAINS MODEL 230605 SWALE DESIGN.drn
PIPE SIZE Ø375mm
SCOUR STONE SIZE D_{50} = Ø200mm
L = 6D = 6 x 0.375 = 2.25m
WIDTH = 3D (MIN.) = 3 x 0.375 = 1.125m



OUTLET RIP RAP SECTION DETAILS

SCALE: N.T.S.

0 2 4 6 8 10m
2 1
SCALE 1:100

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	RE-ISSUED FOR DA ONLY	MB	SY	23.07.2024					
01	ISSUED FOR DA ONLY	AFe	SY	07.06.2024					

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WESTS Group

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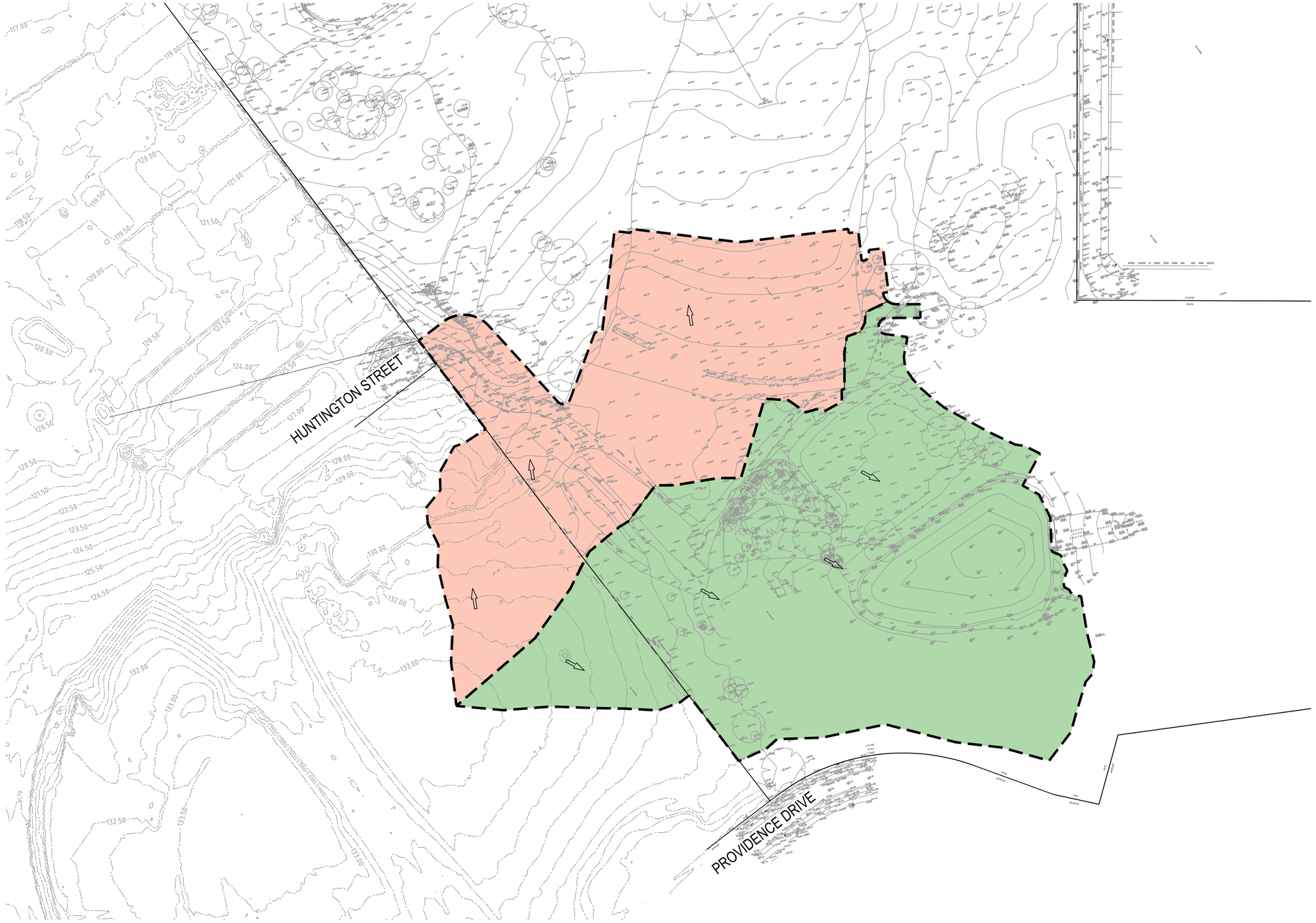
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
OUTLET DETAIL PLAN HEADWALL

Drawn	Designed	Original issue date
S.Yu	S.Yu	JUN 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	AS NOTED

Drawing number 230605_DA_C220
Revision 02



TOTAL PRE DEVELOPMENT AREA: 52777m²

CATCHMENT WITHIN DEVELOPMENT AREA NOT DRAINING TO EXISTING DAM: 21108m²

UNDEVELOPED AREA
0% IMPERVIOUS
100% PERVIOUS

CATCHMENT WITHIN DEVELOPMENT AREA DRAINING TO EXISTING DAM: 31663m²

UNDEVELOPED AREA
12.50% IMPERVIOUS
100% PERVIOUS

PRE DEVELOPMENT CATCHMENT PLAN

SCALE 1:1000

0 20 40 60 80 100m
20 15 10 5
SCALE 1:1000

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	RE-ISSUED FOR DA ONLY	MB	SY	23.07.2024					
03	ISSUED FOR DA ONLY	AFe	SY	07.06.2024					
02	ISSUED FOR DA ONLY	MB	SY	14.03.2024					
01	ISSUED FOR CO-ORDINATION	MB	SY	13.03.2024					

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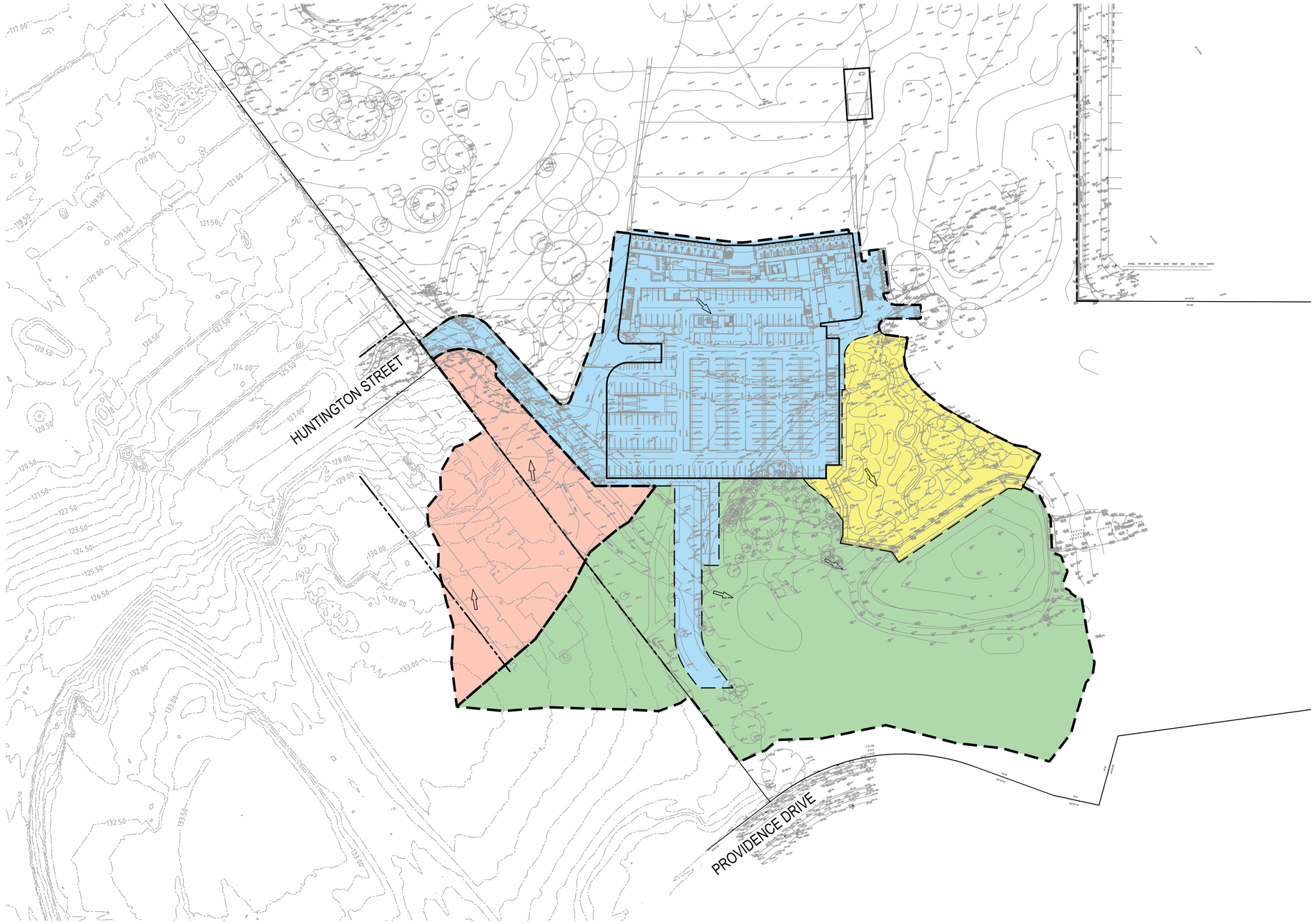
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
PRE DEVELOPMENT CATHCMENT PLAN

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:1000

Drawing number: 230605_DA_C250
Revision: 04



TOTAL POST DEVELOPMENT AREA: 52777m²

TOTAL CATCHMENT AREA TO OSD: 45098m²

BUILDING AND ROADS AREA TO OSD BASIN
A= 16481 m² (100% IMPERVIOUS, 0% PERVIOUS)

GOLF AREA TO OSD BASIN
A= 5568 m² (80% IMPERVIOUS, 20% PERVIOUS)

UNDEVELOPED AREA
AREA = 23049m² (0% IMPERVIOUS, 100% PERVIOUS)

TOTAL CATCHMENT AREA NOT TO OSD: 7679m²

UNDEVELOPED AREA
AREA = 7679m² (0% IMPERVIOUS, 100% PERVIOUS)

POST DEVELOPMENT CATCHMENT PLAN

SCALE 1:1000

0 20 40 60 80 100m
20 15 10 5
SCALE 1:1000

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	RE-ISSUED FOR DA ONLY	MB	SY	23.07.2024					
03	ISSUED FOR DA ONLY	AFe	SY	07.06.2024					
02	ISSUED FOR DA ONLY	MB	SY	14.03.2024					
01	ISSUED FOR CO-ORDINATION	MB	SY	13.03.2024					

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WESTS Group

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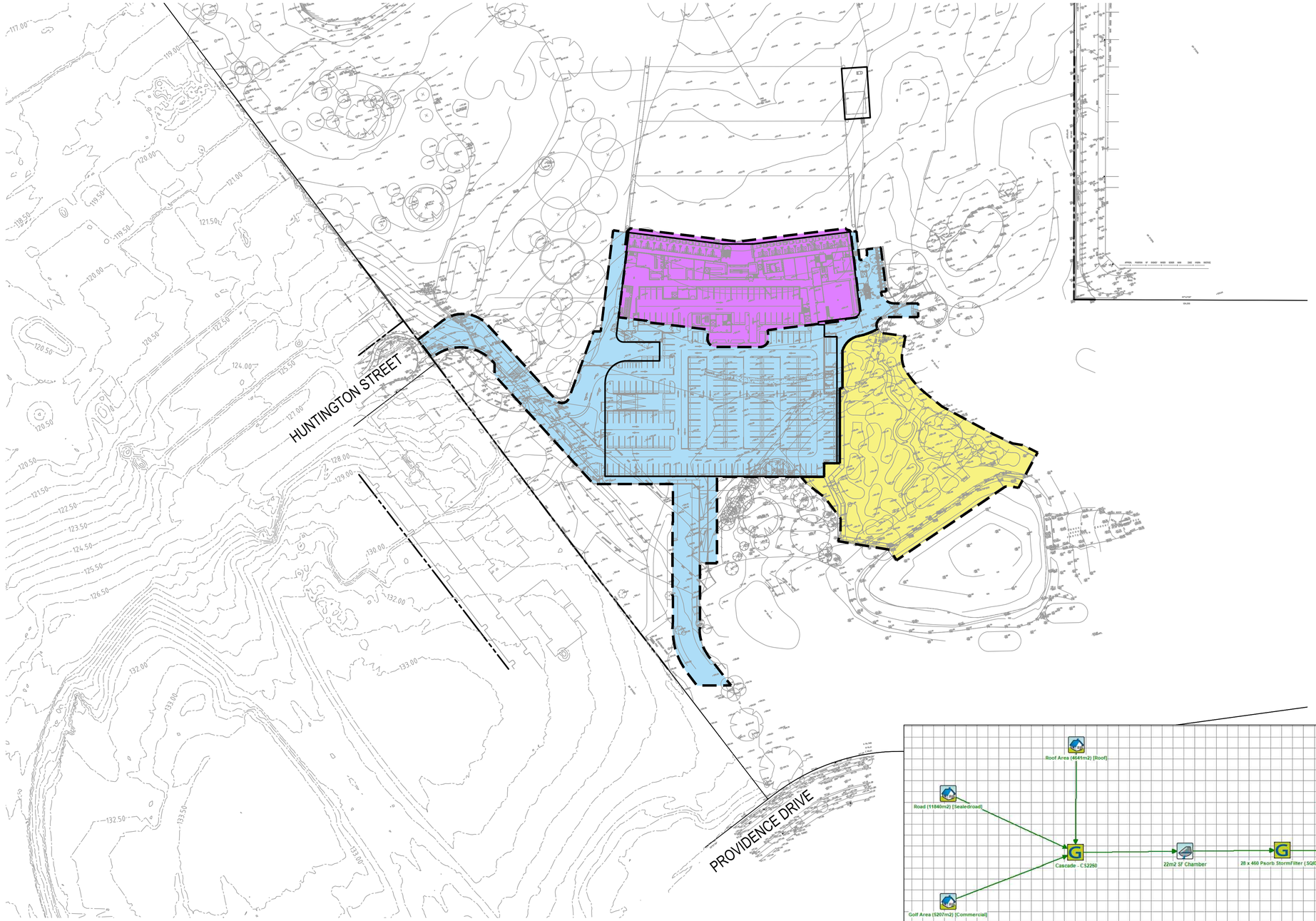
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
POST DEVELOPMENT CATHCMENT PLAN

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:1000

Drawing number 230605_DA_C251
Revision 04



LEGEND

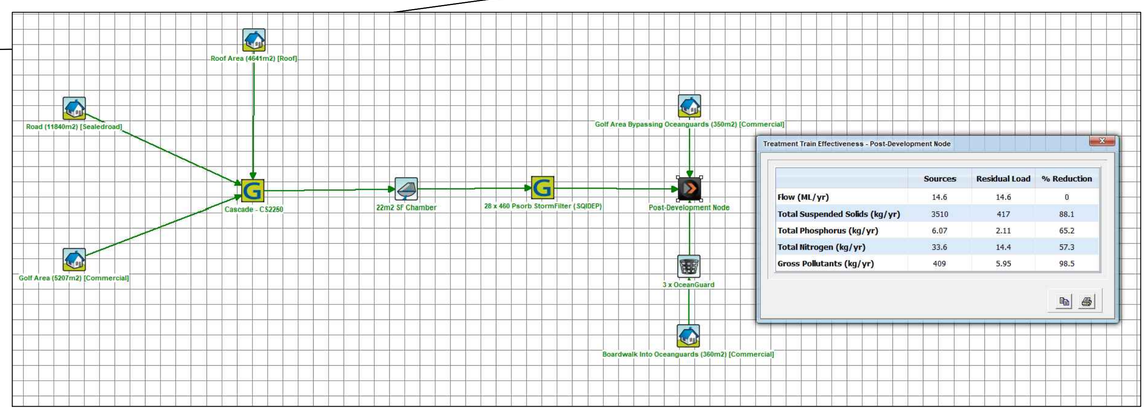
ROAD AREA
A= 1184 m² (95% IMPERVIOUS, 5% PERVIOUS)

GOLF AREA
A= 5567 m² (80% IMPERVIOUS, 20% PERVIOUS)

ROOF AREA
AREA = 4641 m² (100% IMPERVIOUS, 0% PERVIOUS)

MUSIC CATCHMENT PLAN

SCALE 1:1000



	Sources	Residual Load	% Reduction
Flow (ML/yr)	14.6	14.6	0
Total Suspended Solids (kg/yr)	3510	417	88.1
Total Phosphorus (kg/yr)	6.07	2.11	65.2
Total Nitrogen (kg/yr)	33.6	14.4	57.3
Gross Pollutants (kg/yr)	409	5.95	98.5

MUSIC RESULTS

SCALE N.T.S

0 20 40 60 80 100m
20 15 10 5
SCALE 1:1000

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	RE-ISSUED FOR DA ONLY	MB	SY	23.07.2024
03	ISSUED FOR DA ONLY	AFe	SY	07.06.2024
02	ISSUED FOR DA ONLY	MB	SY	14.03.2024
01	ISSUED FOR CO-ORDINATION	MB	SY	13.03.2024

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WESTS Group

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ALTIS Architecture

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Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

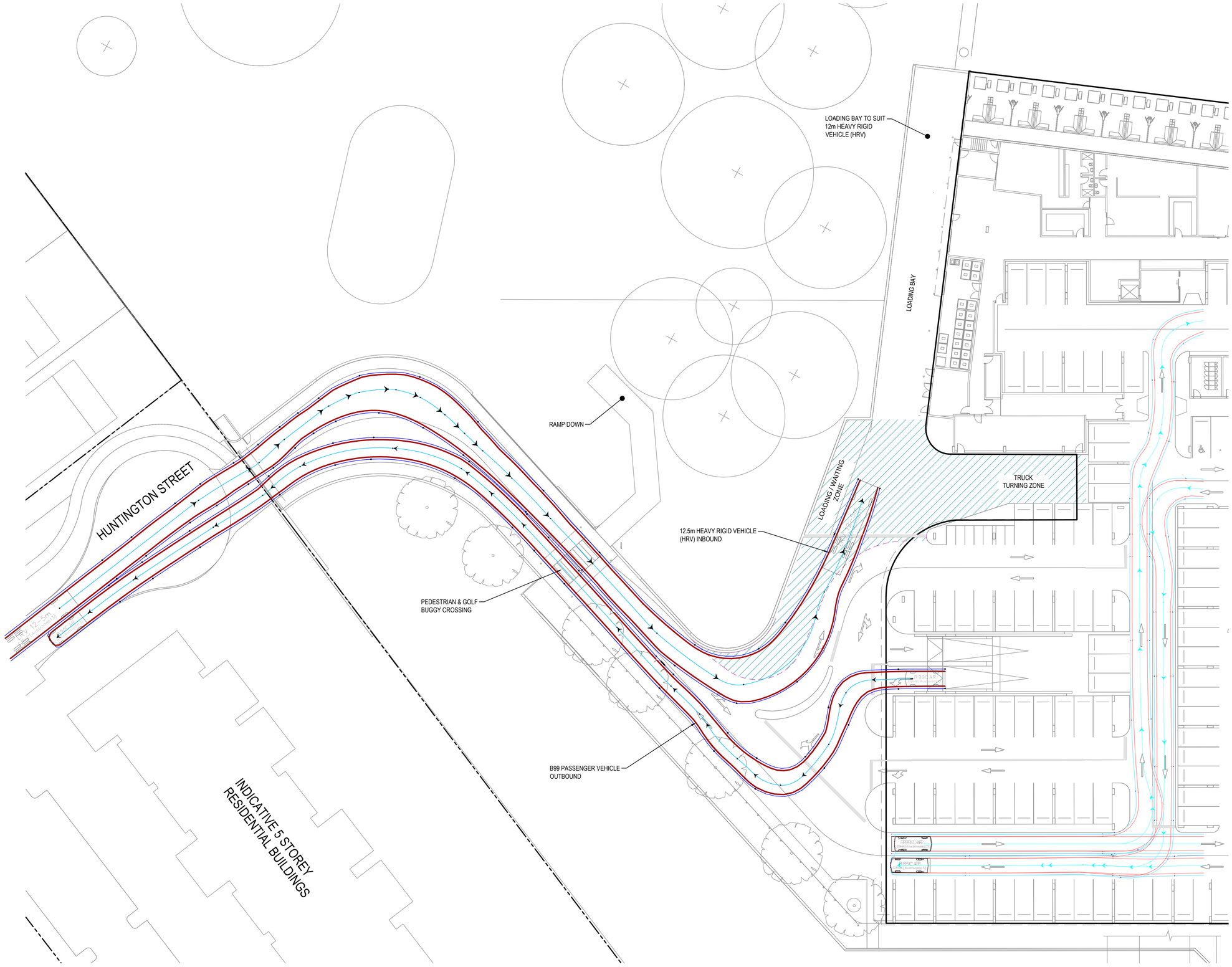
Title
MUSIC CATCHMENT PLAN AND
MUSIC CALCULATION

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	AS NOTED

Drawing number
230605_DA_C252

Revision
04

NOTE:
VEHICULAR TURNING PATH BY THE TRAFFIC ENGINEER CONSULTANT



0 5 10 15 20 25m
5 4 3 2 1
SCALE 1:250

VEHICLE SWEEP PATHS - LOWER GROUND LEVEL - HRV INBOUND

SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR DA ONLY	MB	SY	23.07.2024					

Client
WESTS Group

Architect
ALTIS Architecture

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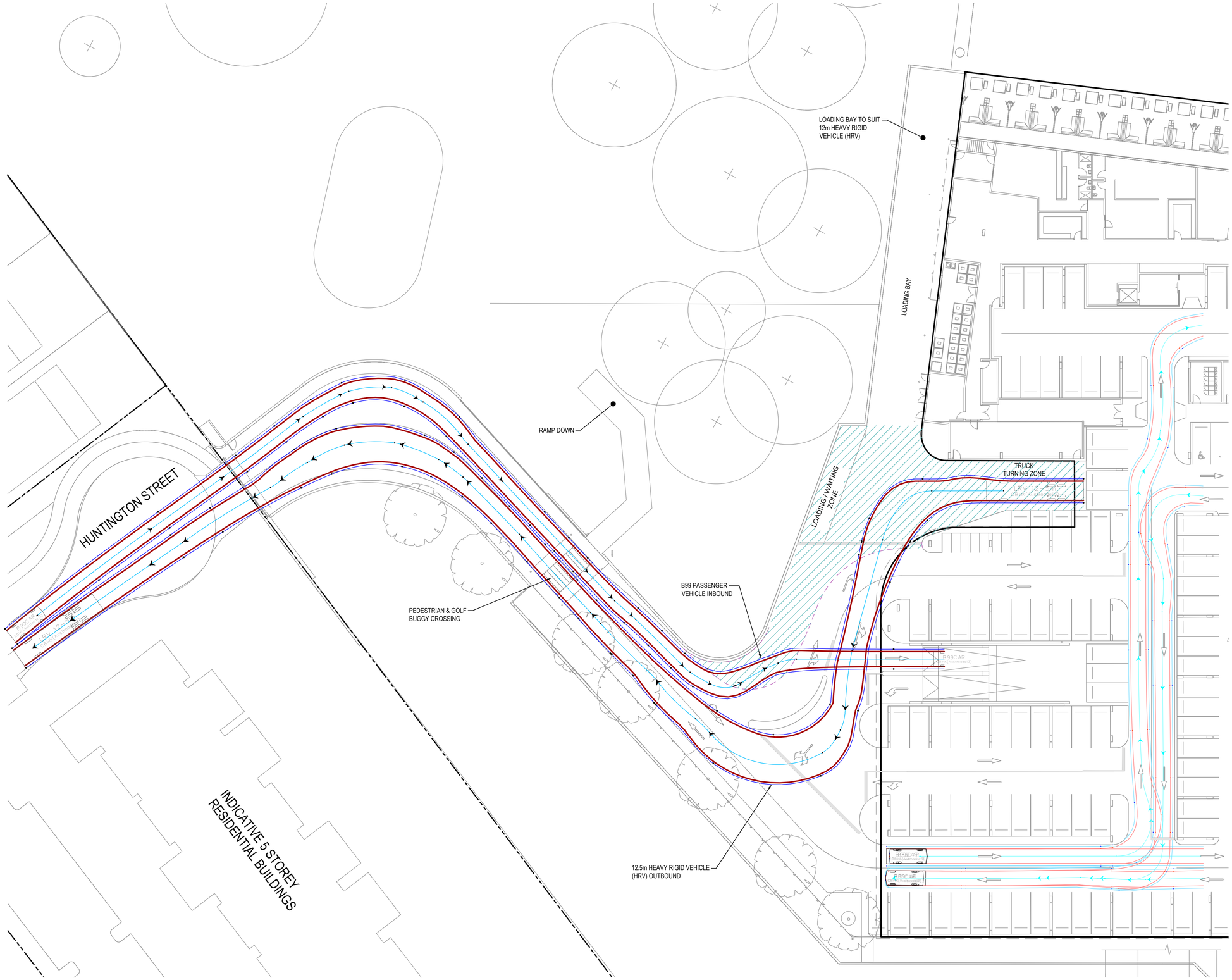
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
VEHICLE SWEEP PATHS - LOWER GROUND LEVEL
HRV INBOUND

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:250

Drawing number 230605_DA_C650
Revision 01

NOTE:
VEHICULAR TURNING PATH BY THE TRAFFIC ENGINEER CONSULTANT



0 5 10 15 20 25m
5 4 3 2 1
SCALE 1:250

VEHICLE SWEEP PATHS - LOWER GROUND LEVEL - HRV OUTBOUND

SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR DA ONLY	MB	SY	23.07.2024					

Client
WESTS Group

Architect
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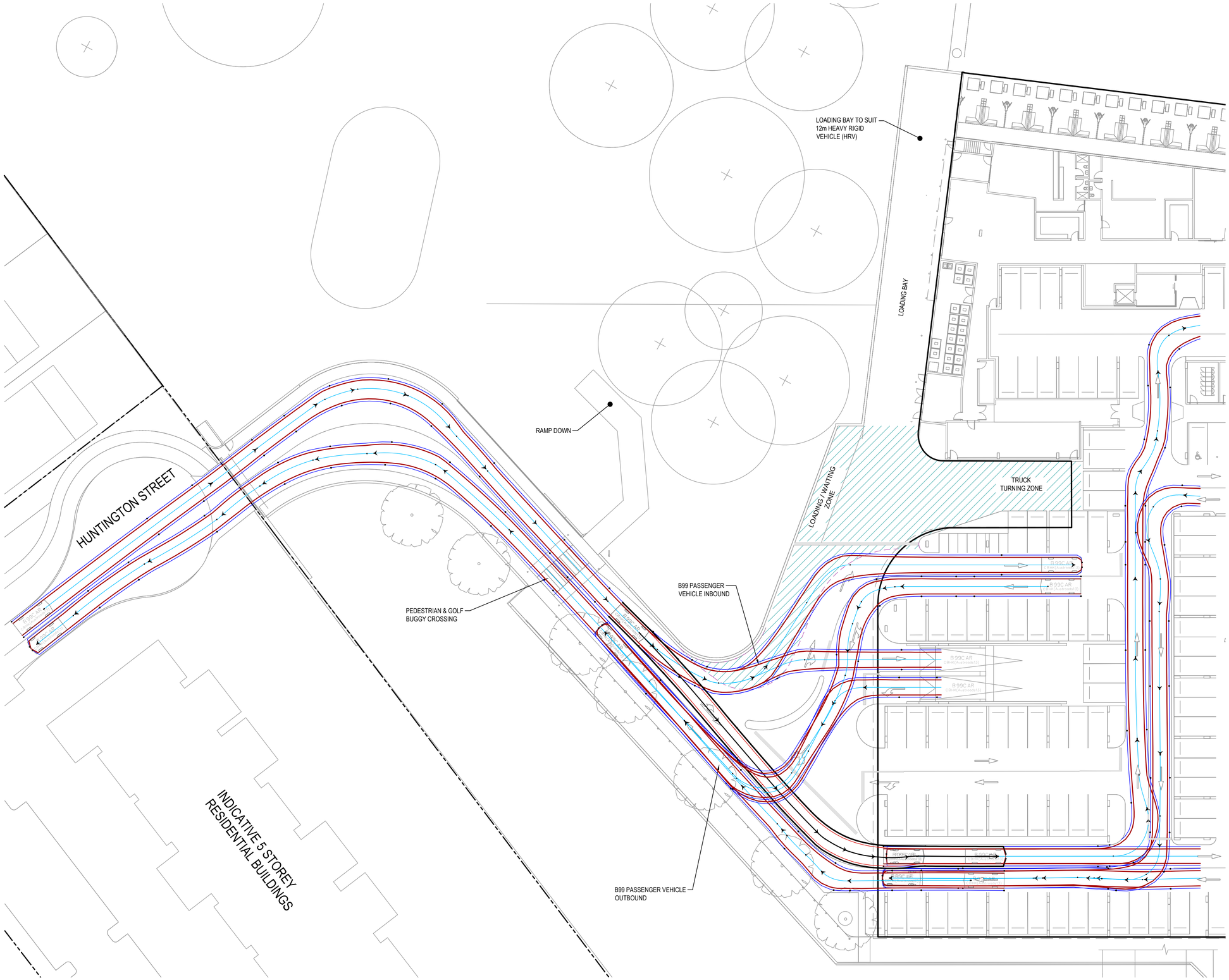
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
VEHICLE SWEEP PATHS - LOWER GROUND LEVEL
HRV OUTBOUND

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:250

Drawing number 230605_DA_C651
Revision 01

NOTE:
VEHICULAR TURNING PATH BY THE TRAFFIC ENGINEER CONSULTANT



0 5 10 15 20 25m
5 4 3 2 1
SCALE 1:250

VEHICLE SWEEP PATHS - LOWER GROUND LEVEL - PASSENGER VEHICLES 01

SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR DA ONLY	MB	SY	23.07.2024

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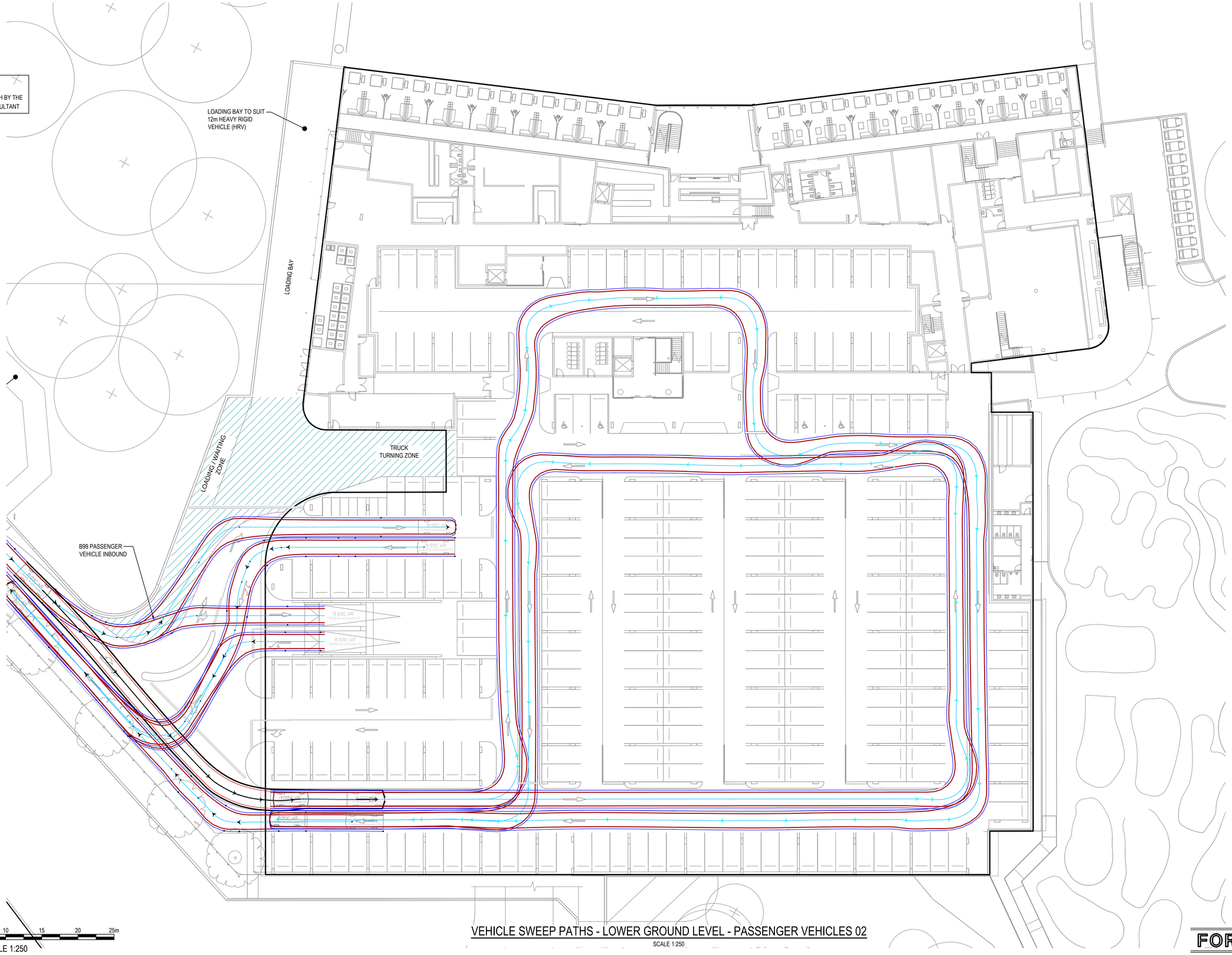
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
VEHICLE SWEEP PATHS - LOWER GROUND LEVEL
PASSENGER VEHICLES 01

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:250

Drawing number 230605_DA_C652
Revision 01



VEHICLE SWEEP PATHS - LOWER GROUND LEVEL - PASSENGER VEHICLES 02

SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR DA ONLY	MB	SY	23.07.2024

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WESTS Group

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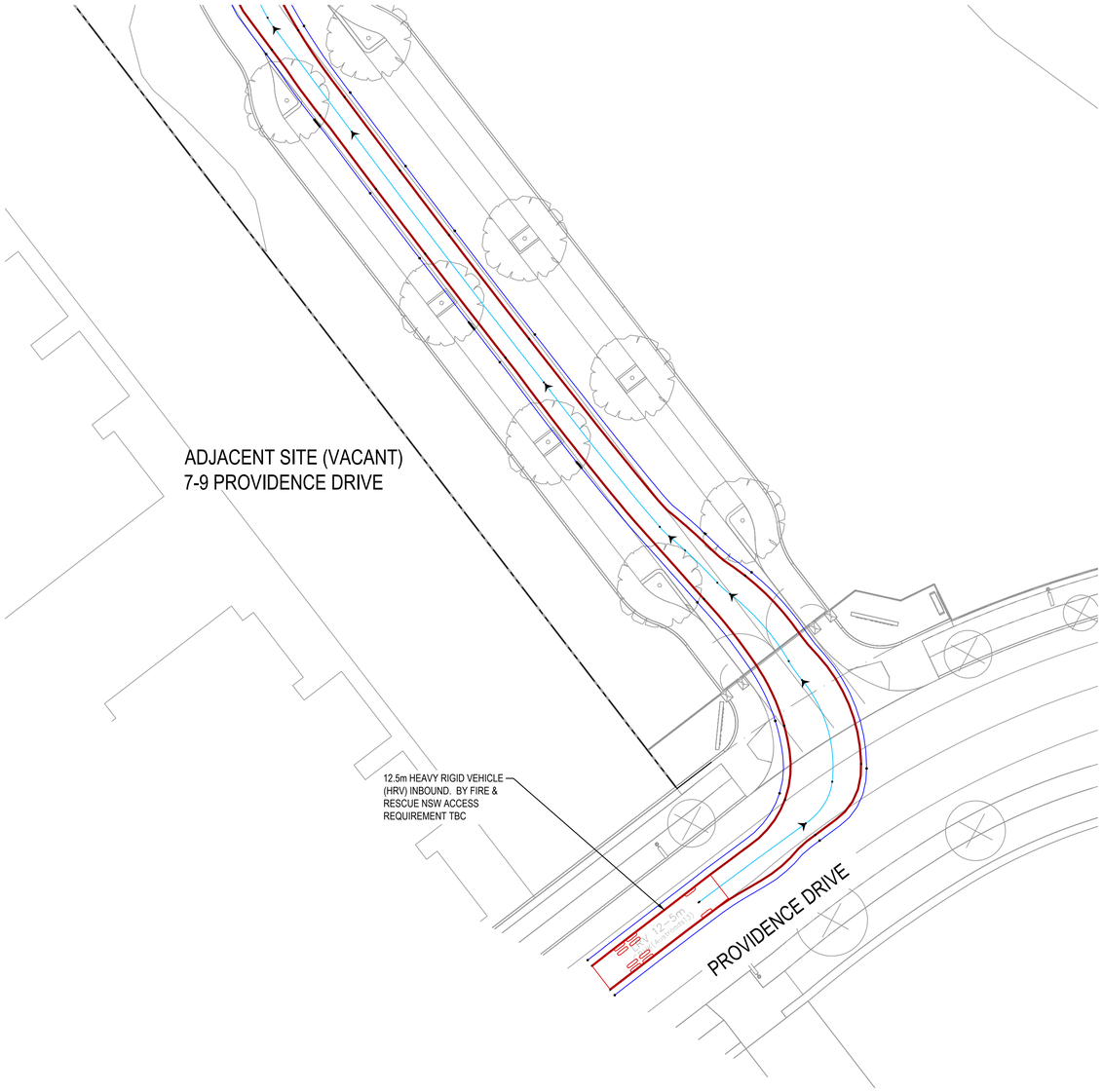
Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
VEHICLE SWEEP PATHS - LOWER GROUND LEVEL
PASSENGER VEHICLES 02

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:250

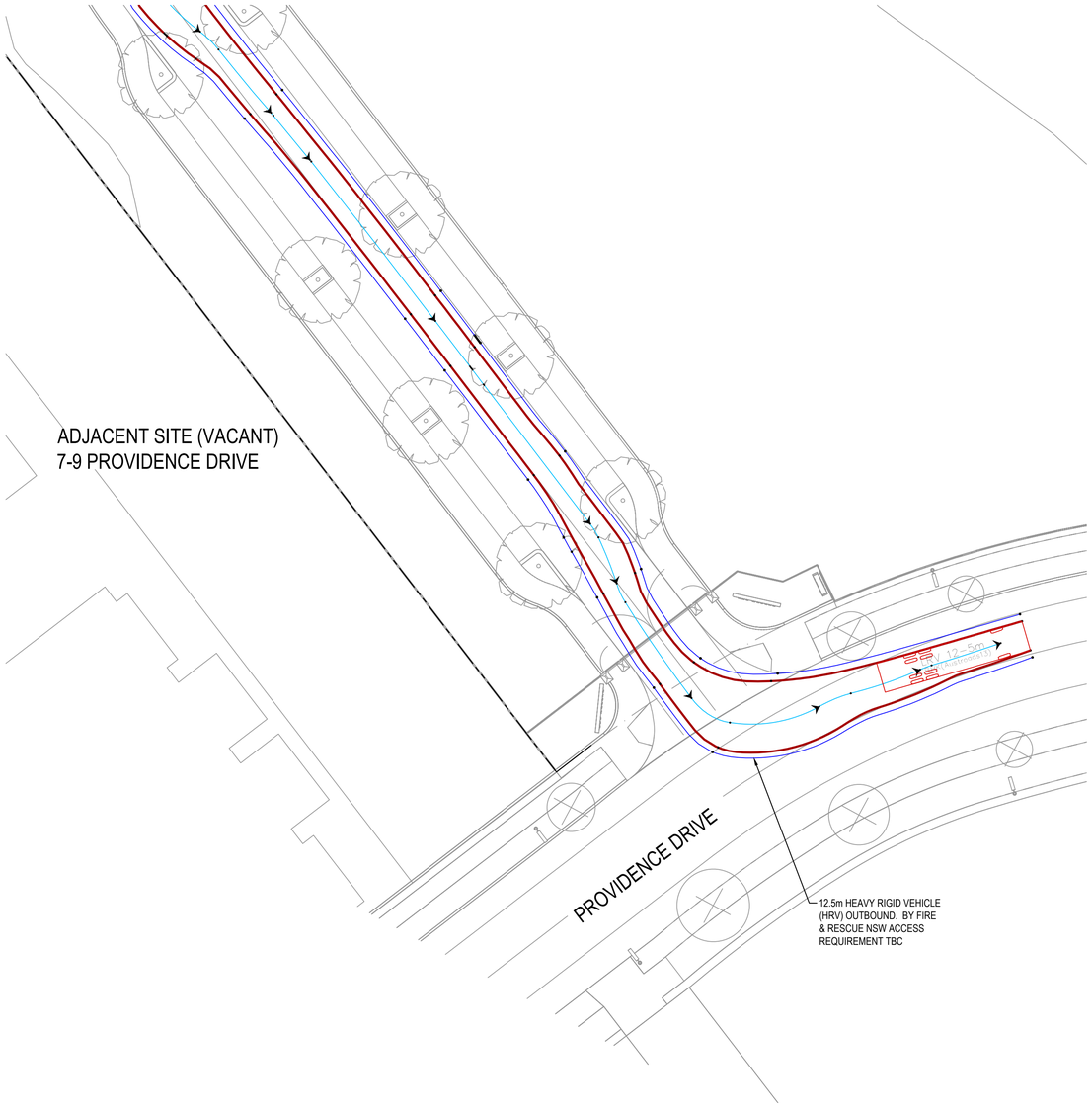
Drawing number 230605_DA_C653

Revision 01



DETAIL PLAN - PROPOSED ENTRY ROAD ON PROVIDENCE DRIVE

SCALE 1:250



DETAIL PLAN - PROPOSED ENTRY ROAD ON PROVIDENCE DRIVE

SCALE 1:250

0 5 10 15 20 25m

5 4 3 2 1

SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION

SURVEYED BY

HARRISON FRIEDMANN & ASSOCIATES

DATUM: A.H.D

ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR DA ONLY	MB	SY	23.07.2024					

Client

WESTS Group

Architect

ALTIS Architecture

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DRAWING TO BE PRINTED IN COLOUR

henry&hymas

Project

THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

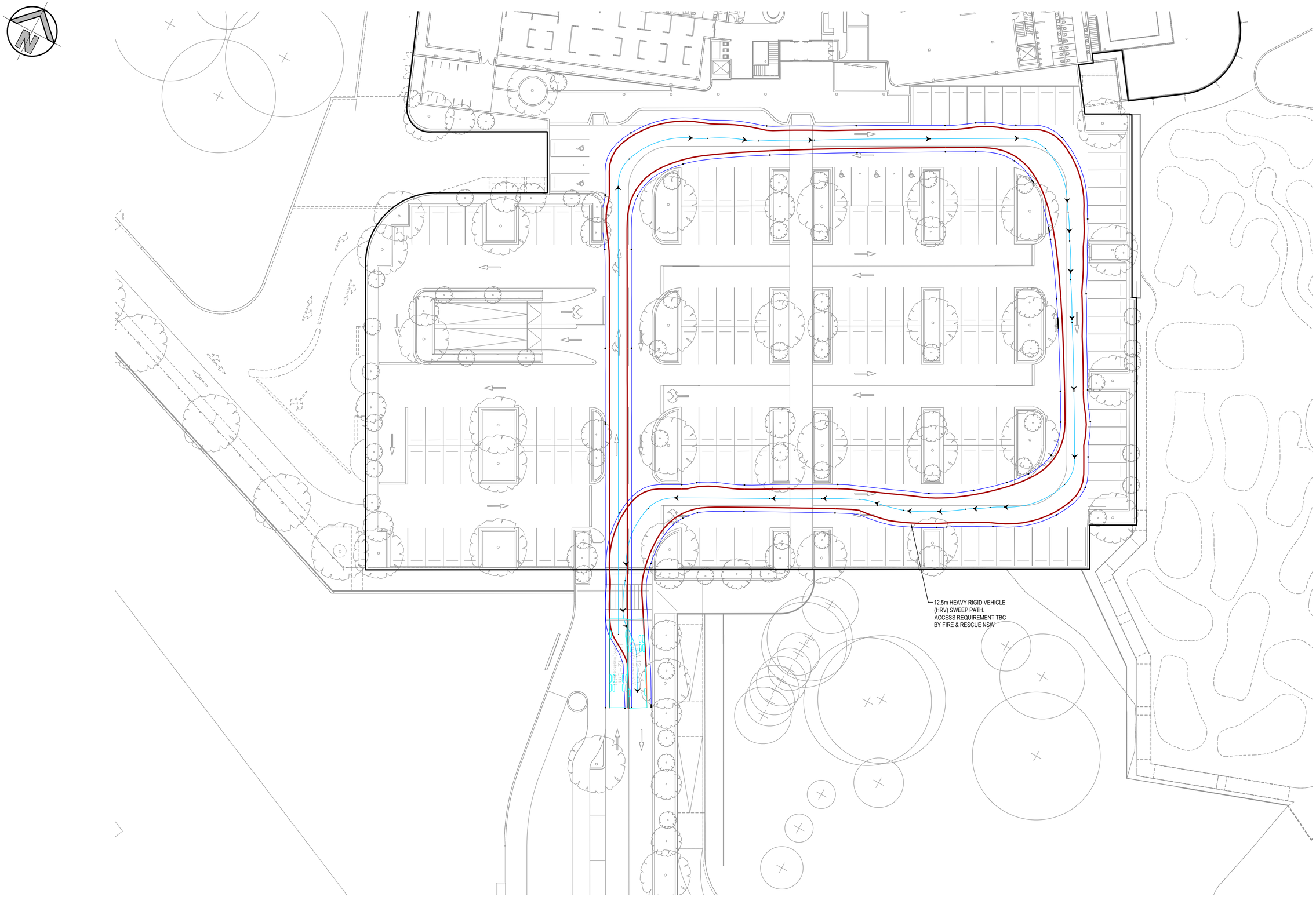
Title

VEHICLE SWEEP PATHS - GROUND LEVEL
HRV (FIRE BRIGADE) - DRIVEWAY

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:250

Drawing number: 230605_DA_C654

Revision: 01



0 5 10 15 20 25m
5 4 3 2 1
SCALE 1:250

VEHICLE SWEEP PATHS - GROUND LEVEL - HRV (FIRE BRIGADE) - CARPARK

SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL 126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR DA ONLY	MB	SY	23.07.2024					

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Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
VEHICLE SWEEP PATHS - GROUND LEVEL
HRV (FIRE BRIGADE) - CARPARK

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:250

Drawing number: 230605_DA_C655
Revision: 01

0 10 20 30 40 50m
10 8 6 4 2
SCALE 1:500

VEHICLE SWEEP PATHS - GROUND LEVEL - PASSENGER VEHICLES

SCALE 1:500

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR DA ONLY	MB	SY	23.07.2024					

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Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
VEHICLE SWEEP PATHS - GROUND LEVEL
PASSENGER VEHICLES

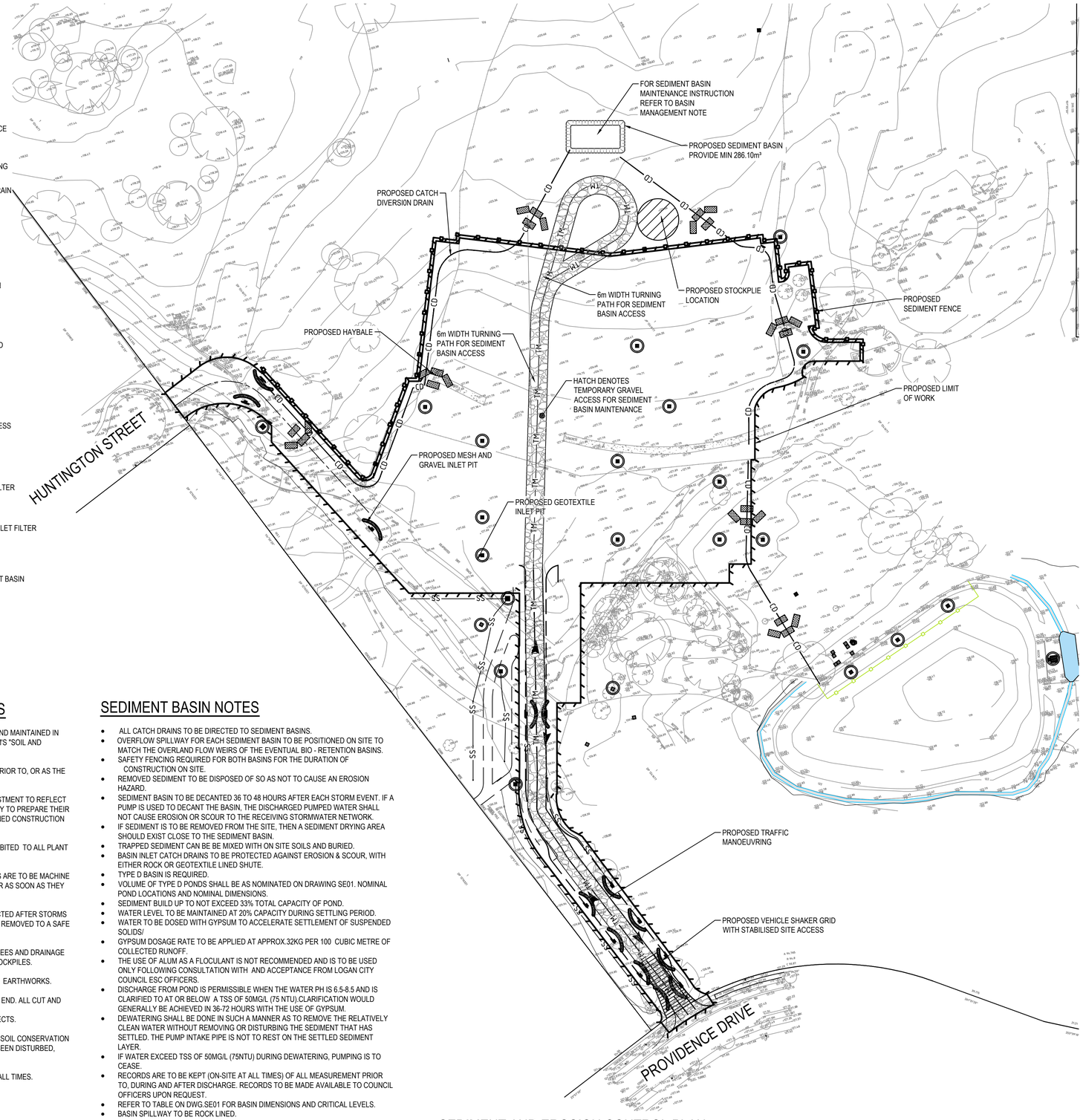
Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:500

Drawing number
230605_DA_C656

Revision
01

LEGEND

- PROPOSED SEDIMENTATION FENCE
- PROPOSED LIMIT OF WORK
- PROPOSED TRAFFIC MANOEUVRING
- PROPOSED CATCH DIVERSION DRAIN
- PROPOSED HAYBALE FILTER
- PROPOSED STOCKPILE LOCATION
- PROPOSED VEHICLE SHAKER GRID
- PROPOSED STABILISED SITE ACCESS
- PROPOSED GEOTEXTILE INLET FILTER
- PROPOSED MESH AND GRAVEL INLET FILTER
- PROPOSED PROPOSED SEDIMENT BASIN



SEDIMENT AND EROSION CONTROL PLAN

SCALE 1:750

SEDIMENT BASIN SIZING

1. THE SEDIMENT BASIN SHALL BE CONSTRUCTED ON A RATE PER HECTARE BASIS AND HAS BEEN IN ACCORDANCE WITH THE REQUIREMENTS OF THE LANDCOM MANUAL "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION", FOR SEDIMENTATION **TYPE D** SOILS. THE DISTURBED AREA WITHIN THIS CATCHMENT AT ANY ONE TIME SHOULD BE LIMITED TO AN AREA FOR WHICH EACH SEDIMENT BASIN CAN HANDLE. EACH BASIN SHALL BE SIZED IN ACCORDANCE WITH THE TABLE BELOW.

SEDIMENT BASIN SIZING TYPE D SOILS	
VOLUMETRIC RUNOFF COEFFICIENT, CV	0.5 (APPENDIX F - TABLE F2)
80TH PERCENTILE 5 DAY TOTAL RAINFALL DEPTH, R	25.1 mm
CATCHMENT AREA, A	1.72 Ha (UNIT AREA)
SETTLING ZONE VOLUME (PER HECTARE) 10 CV A R	215.86 m³
DISTURBED CATCHMENT AREA	1.72 Ha (UNIT AREA)
R K LS P C	312.46m³
SEDIMENT ZONE VOLUME (0.17 A (R K LS P C)/1.3	70.28m³ < 50% SETTLING VOL
TOTAL SEDIMENT BASIN VOLUME REQUIRED :	286.1 m³/Ha

* (LANDCOM MANAGING URBAN STORMWATER MANUAL REFERENCE)

2. THE FOLLOWING DESIGN PARAMETERS HAVE BEEN ASSESSED FOR THE SITE:

CONSTRAINT	VALUE	(SOURCE)*
RAINFALL EROSIVITY (R-FACTOR)	2500	APPENDIX B
LENGTH/SLOPE GRADIENT FACTOR, LS	2.53	APPENDIX A - TABLE A1
SOIL ERODIBILITY (K-FACTOR)	0.038	(TABLE C20 - BLACKTOWN)
EROSION CONTROL PRACTICE FACTOR (P-FACTOR)	1.3 (COMPACTED)	APPENDIX A - TABLE A2
COVER FACTOR (C-FACTOR)	1.0 (DURING EARTHWORKS)	APPENDIX A - FIGURE A5
CALCULATED SOIL LOSS, A (RUSLE EQUATION)	312.45t/Ha/YR	A = R K LS P C
SOIL HYDROLOGIC GROUP	GROUP D	APPENDIX C TABLE 20
SEDIMENT TYPE	TYPE D	APPENDIX C TABLE 4
80TH PERCENTILE 5-DAY RAINFALL EVENT	25.1mm (CAMDEN)	TABLE 6.3A

* (LANDCOM MANAGING URBAN STORMWATER MANUAL REFERENCE)

BASIN MANAGEMENT

1. THE CAPTURED STORMWATER IN THE SETTLING ZONE SHOULD BE DRAINED TO MEET THE MINIMUM STORAGE CAPACITY REQUIRED WITHIN A FIVE (5) DAY PERIOD FOLLOWING RAINFALL, PROVIDED THE ACCEPTABLE WATER QUALITY (NFR) AND TURBIDITY HAVE BEEN ACHIEVED.
2. CHEMICAL FLOCCULENT SUCH AS GYPSUM MAY BE DOSED TO AID SETTLING WITHIN 24 HOURS OF CONCLUSION OF EACH STORM. THE APPLIED DOSING RATES SHOULD ACHIEVE THE TARGET QUALITY WITHIN 36 TO 72 HOURS OF THE STORM EVENT.
3. INSPECT THE SEDIMENT BASINS AFTER EACH RAINFALL EVENT AND/OR WEEKLY. ENSURE THAT ALL SEDIMENT IS REMOVED ONCE THE SEDIMENT STORAGE ZONE IS FULL (REFER TO PEGS INSTALLED IN BASINS IN ACCORDANCE WITH THE SWMP). ENSURE THAT OUTLET AND EMERGENCY SPILLWAY WORKS ARE MAINTAINED IN A FULLY OPERATIONAL CONDITION AT ALL TIMES.

SOWING SEASON	SEED MIX
AUTUMN/WINTER	OATS@40KG/Ha + JAPANESE MILLET@10kg/Ha
SPRING/SUMMER	OATS@20kg/Ha + JAPANESE MILLET@20kg/Ha

NOTE : THESE PLANT SPECIES ARE FOR TEMPORARY REVEGETATION ONLY. THEY WILL ONLY PROVIDE PROTECTION FROM EROSION FOR SIX MONTHS. WHERE THE LOTS ARE TO BE LEFT UNDEVELOPED FOR A LONGER PERIOD, THE CONTRACTOR SHALL SEEK ADVICE FROM THE SITE SUPERINTENDENT AS TO MORE APPROPRIATE REVEGETATION METHODS.

REVEGETATION IN ACCORDANCE WITH THE ABOVE TABLE WILL BE ENHANCED BY ADDING LIME AT A RATE OF 4kg/TONNE OF TOPSOIL AND 7.5kg/TONNE OF SUBSOIL.

4. THE LONG TERM GROUND COVER FACTORS FOR THE CONSTRUCTION WORKS IS NOT TO EXCEED THE FOLLOWING LIMITS:

LAND	MAXIMUM C-FACTOR	REMARKS
WATERWAYS AND OTHER AREAS OF CONCENTRATED FLOWS, POST CONSTRUCTION	0.05	APPLIES AFTER TEN WORKING DAYS OF COMPLETION OF FORMATION AND BEFORE CONCENTRATED FLOWS ARE APPLIED. FOOT AND VEHICULAR TRAFFIC IS PROHIBITED IN THIS AREA AND 70% GROUND COVER IS REQUIRED.
STOCKPILES, POST CONSTRUCTION	0.10	APPLIES AFTER TEN WORKING DAYS FROM COMPLETION OF FORMATION. 60% GROUND COVER IS REQUIRED.
ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION.	0.15	APPLIES AFTER 20 DAYS OF INACTIVITY, EVEN THOUGH WORKS MAY BE INCOMPLETE. 50% GROUND COVER IS REQUIRED.

SEDIMENT & EROSION CONTROL NOTES

- ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH CAMDEN COUNCIL'S SPECIFICATIONS AND LANDCOM'S "SOIL AND CONSTRUCTION" MANUAL.
- ALL PERIMETER & SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN EARTH WORKS AND/OR CLEARING.
- THE SEDIMENT & EROSION CONTROL PLAN MAY REQUIRE FUTURE ADJUSTMENT TO REFLECT CONSTRUCTION STAGING. IT IS ALSO THE CONTRACTORS RESPONSIBILTY TO PREPARE THEIR OWN SEDIMENT AND EROSION CONTROL PLAN WHICH SUITS THE DESIGNED CONSTRUCTION STAGING.
- FILTRATION BUFFER ZONES ARE TO BE FENCED OFF AND ACCESS PROHIBITED TO ALL PLANT AND MACHINERY.
- ALL TEMPORARY EARTH BERMS, DIVERSIONS & SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED & MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
- ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING. TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE LOCATION.
- ALL TOPSOIL IS TO BE STOCKPILED ON SITE FOR REUSE (AWAY FROM TREES AND DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES.
- ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO SEAL THE EARTHWORKS.
- ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND STRAW MULCHED WITHIN 14 DAYS OF COMPLETION OF FORMATION U.N.O. BY LANDSCAPE ARCHITECTS.
- UPON COMPLETION OF ALL EARTHWORKS OR AS DIRECTED BY COUNCIL SOIL CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14 DAYS.
- EROSION AND SILT PROTECTION MEASURES ARE TO BE MAINTAINED AT ALL TIMES.

SEDIMENT BASIN NOTES

- ALL CATCH DRAINS TO BE DIRECTED TO SEDIMENT BASINS.
- OVERFLOW SPILLWAY FOR EACH SEDIMENT BASIN TO BE POSITIONED ON SITE TO MATCH THE OVERLAND FLOW WEIRS OF THE EVENTUAL BIO - RETENTION BASINS.
- SAFETY FENCING REQUIRED FOR BOTH BASINS FOR THE DURATION OF CONSTRUCTION ON SITE.
- REMOVED SEDIMENT TO BE DISPOSED OF SO AS NOT TO CAUSE AN EROSION HAZARD.
- SEDIMENT BASIN TO BE DECANTED 36 TO 48 HOURS AFTER EACH STORM EVENT. IF A PUMP IS USED TO DECANT THE BASIN, THE DISCHARGED PUMPED WATER SHALL NOT CAUSE EROSION OR SCOUR TO THE RECEIVING STORMWATER NETWORK.
- IF SEDIMENT IS TO BE REMOVED FROM THE SITE, THEN A SEDIMENT DRYING AREA SHOULD EXIST CLOSE TO THE SEDIMENT BASIN.
- TRAPPED SEDIMENT CAN BE BE MIXED WITH ON SITE SOILS AND BURIED.
- BASIN INLET CATCH DRAINS TO BE PROTECTED AGAINST EROSION & SCOUR, WITH EITHER ROCK OR GEOTEXTILE LINED SHUTE.
- TYPE D BASIN IS REQUIRED.
- VOLUME OF TYPE D PONDS SHALL BE AS NOMINATED ON DRAWING SE01. NOMINAL POND LOCATIONS AND NOMINAL DIMENSIONS.
- SEDIMENT BUILD UP TO NOT EXCEED 33% TOTAL CAPACITY OF POND.
- WATER LEVEL TO BE MAINTAINED AT 20% CAPACITY DURING SETTLING PERIOD.
- WATER TO BE DOSED WITH GYPSUM TO ACCELERATE SETTLEMENT OF SUSPENDED SOLIDS/
- GYPSUM DOSAGE RATE TO BE APPLIED AT APPROX.32KG PER 100 CUBIC METRE OF COLLECTED RUNOFF.
- THE USE OF ALUM AS A FLOCULANT IS NOT RECOMMENDED AND IS TO BE USED ONLY FOLLOWING CONSULTATION WITH AND ACCEPTANCE FROM LOGAN CITY COUNCIL ESC OFFICERS.
- DISCHARGE FROM POND IS PERMISSIBLE WHEN THE WATER PH IS 6.5-8.5 AND IS CLARIFIED TO AT OR BELOW A TSS OF 50MG/L (75 NTU).CLARIFICATION WOULD GENERALLY BE ACHIEVED IN 36-72 HOURS WITH THE USE OF GYPSUM.
- DEWATERING SHALL BE DONE IN SUCH A MANNER AS TO REMOVE THE RELATIVELY CLEAN WATER WITHOUT REMOVING OR DISTURBING THE SEDIMENT THAT HAS SETTLED. THE PUMP INTAKE PIPE IS NOT TO REST ON THE SETTLED SEDIMENT LAYER.
- IF WATER EXCEED TSS OF 50MG/L (75NTU) DURING DEWATERING, PUMPING IS TO CEASE.
- RECORDS ARE TO BE KEPT (ON-SITE AT ALL TIMES) OF ALL MEASUREMENT PRIOR TO, DURING AND AFTER DISCHARGE. RECORDS TO BE MADE AVAILABLE TO COUNCIL OFFICERS UPON REQUEST.
- REFER TO TABLE ON DWG.SE01 FOR BASIN DIMENSIONS AND CRITICAL LEVELS.
- BASIN SPILLWAY TO BE ROCK LINED.

0 15 30 45 60 75m

15 10 5

SCALE 1:750

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM. A.H.D
ORIGIN OF LEVELS: SSM 192791 RL 126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	RE-ISSUED FOR DA ONLY	MB	SY	23.07.2024
03	ISSUED FOR DA ONLY	AFe	SY	07.06.2024
02	ISSUED FOR DA ONLY	MB	SY	14.03.2024
01	ISSUED FOR CO-ORDINATION	MB	SY	13.03.2024

Client: WESTS Group

Architect: ALTIS Architecture

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DRAWING TO BE PRINTED IN COLOUR

henry&hymas

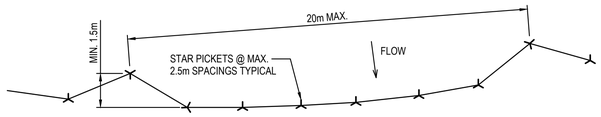
Project: THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title: SEDIMENT AND EROSION CONTROL PLAN

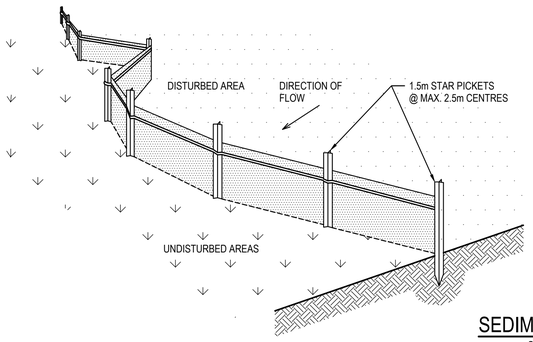
Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:750

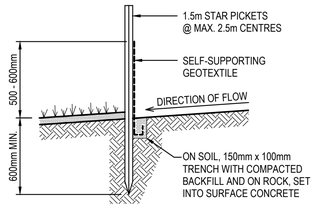
Drawing number: 230605_DA_SE01

Revision: 04



PLAN





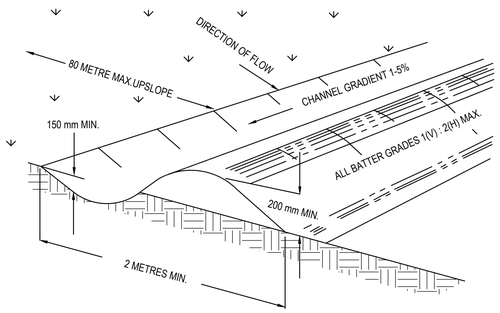
SECTION DETAIL

SEDIMENT FENCE

SCALE N.T.S.

SEDIMENT FENCE CONSTRUCTION NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



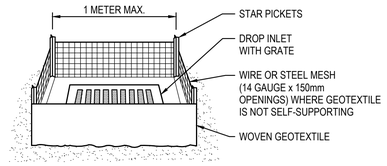
NOTE: ONLY TO BE USED AS TEMPORARY BANK WHERE MAC.UPSLOPE LENGTH IS 80 METERS.

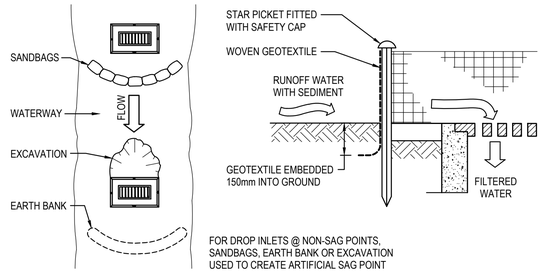
CATCH DRAIN CONSTRUCTION NOTES:

1. CONSTRUCT ALONG GRADIENT AS SPECIFIED.
2. MAXIMUM SPACING BETWEEN BANKS SHALL BE 80 METRES.
3. DRAINS TO BE OF PARABOLIC OR TRAPEZOIDAL CROSS SECTION NOT V-SHAPED.
4. EARTH BANKS TO BE ADEQUATELY COMPACTED IN ORDER TO PREVENT FAILURE.
5. CONSTRUCTION IS OF A TEMPRORARY NATURE AND SHALL BE COMPACTED AT THE END A DAYS WORK OR IMMEDIATELY PRIOR RAIN.
6. ALL OUTLETS FROM DISTURBED LANDS ARE TO FEED INTO SEDIMENT BASIN OR SIMILAR.
7. DISCHARGE RUNOFF COLLECTED FROM UNDISTURBED LANDS ONTO EITHER A STABILISED OR AN UNDISTURBED DISPOSAL AISTE WITHIN THE SAME SUBCATCHMENT AREA FROM WHICH THE WATER ORIGINATED.
8. COMPACT WITH A SUITABLE IMPLEMENT IN SITUATIONS WHERE THEY ARE REQUIRED TO FUNCTION FOR MORE THAN FIVE DAYS.
9. EARTH BANKS TO BE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT WILL IMPEDE NORMAL FLOW.

CATCH DRAINS SD 5-8

SCALE N.T.S.



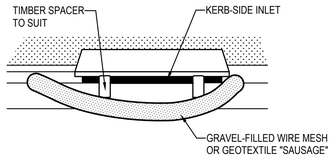


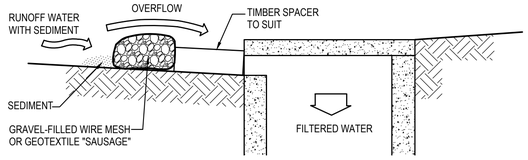
GEOTEXTILE INLET FILTER CONSTRUCTION NOTES:

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE.
2. PICKET SPACING TO BE MAXIMUM 1.0m.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILES UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER

SCALE N.T.S.



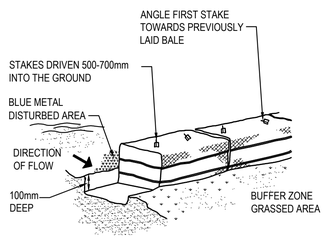


MESH & GRAVEL INLET FILTER CONSTRUCTION NOTES:

1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
2. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
3. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
4. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
5. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY CAN FIRMLY ABUT EACH OTHER AND SEDIMENT / LADEN WATERS CANNOT PASS BETWEEN.

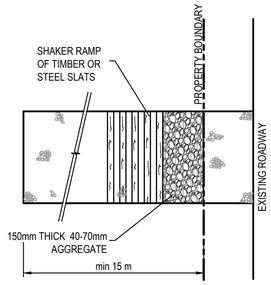
MESH & GRAVEL INLET FILTER

SCALE N.T.S.



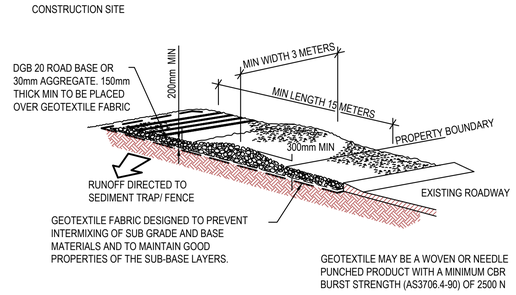
HAYBALE BARRIERS

N.T.S.



PLAN
STABILISED SITE ACCESS WITH SHAKER RAMP

N.T.S.

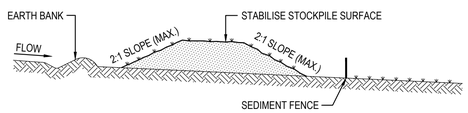


STABILISED SITE ACCESS WITH SHAKER RAMP

N.T.S.

NOTES:

1. THIS DEVICE IS TO BE LOCATED AT ALL EXITS FROM CONSTRUCTION SITE.
2. THIS DEVICE IS TO BE REGULARLY CLEANED OF DEPOSITED MATERIAL SO AS TO MAINTAIN A 50mm DEEP SPACE BETWEEN PLANKS.
3. ANY UNSEALED ROAD BETWEEN THIS DEVICE AND NEAREST ROADWAY IS TO BE TOPPED WITH 100mm THICK 40-70mm SIZE AGGREGATE.
4. ALTERNATIVELY, THREE(3) PRECAST CONCRETE CATTLE GRIDS (AS MANUFACTURED BY "HUMES CONCRETE MAY BE USED. 1, 2 & 3 ABOVE ALSO APPLY.



STOCKPILE CONSTRUCTION NOTES:

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. WHERE THEY ARE TO BE PLACED FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED E.S.C.P. OR S.W.M.P. TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

STOCKPILES

SCALE N.T.S.

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY
HARRISON FRIEDMANN & ASSOCIATES
DATUM: A.H.D
ORIGIN OF LEVELS: SSM 192791 RL.126.541

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	RE-ISSUED FOR DA ONLY	MB	SY	23.07.2024
02	ISSUED FOR DA ONLY	AFe	SY	07.06.2024
01	ISSUED FOR CO-ORDINATION	MB	SY	13.03.2024

Client: WESTS Group
Architect: ALTIS Architecture

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DRAWING TO BE PRINTED IN COLOUR

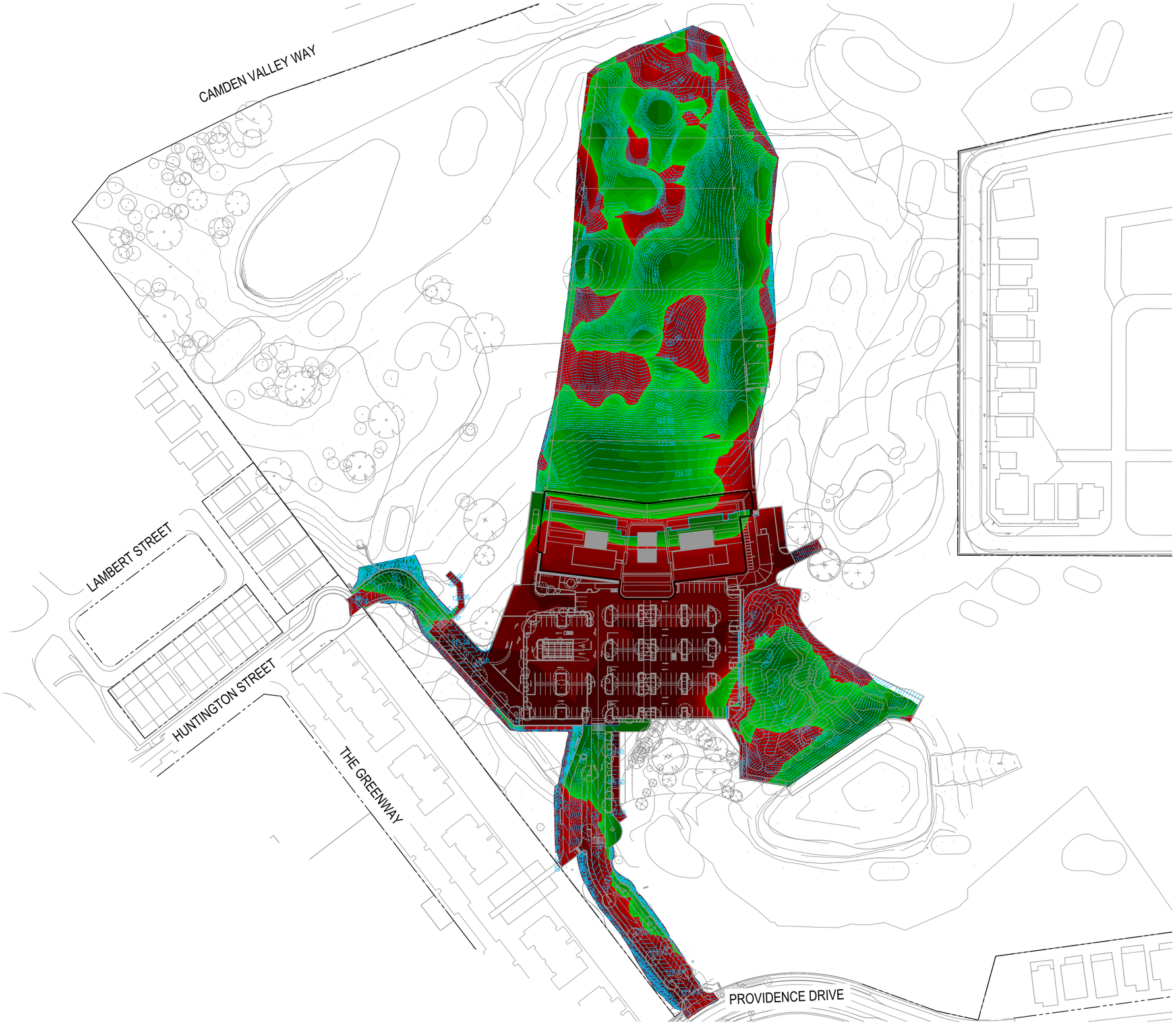
henry&hymas

Project: THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title: SEDIMENT AND EROSION CONTROL DETAILS

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	N.T.S.

Drawing number: 230605_DA_SE02
Revision: 03



LEGEND

DEPTH OF CUT & FILL RANGE				
LOWER VALUE		UPPER VALUE		COLOUR
-4.00	to	-2.00	m	
-2.00	to	-1.00	m	
-1.00	to	-0.80	m	
-0.80	to	-0.60	m	
-0.60	to	-0.40	m	
-0.40	to	-0.20	m	
-0.20	to	-0.10	m	
-0.10	to	-0.05	m	
-0.05	to	0.00	m	
0.00	to	0.05	m	
0.05	to	0.10	m	
0.10	to	0.20	m	
0.20	to	0.40	m	
0.40	to	0.60	m	
0.60	to	0.80	m	
0.80	to	1.00	m	
1.00	to	2.00	m	
2.00	to	4.00	m	

LEGEND

58.00 CONTOURS BE

BULK EARTHWORKS QUANTITIES

TOTAL AREA (46587m²)		
CUT	23233	m³
FILL	12826	m³
EXCESS OF CUT OVER FILL	10407	m³
EXCAVATION FOR RETAINING WALLS NOT INCLUDED IN CALCULATION		
EXCAVATION FOR SERVICE TRENCHES NOT INCLUDED IN CALCULATION		
VOLUME HAS BEEN CALCULATED AFTER STRIPPING THE SITE OF TOPSOIL - ASSUMED TOPSOIL DEPTH 100mm. STRIPPED MATERIAL NOT INCLUDED IN ABOVE QUANTITIES		

ASSUMED SET-DOWN THICKNESSES

- ACCESS ROADS/DRIVEWAYS, LOADING DOCK AND GROUND FLOOR SLABS:

- 180mm THICK 32MPA CONCRETE WITH SL92 MESH 50MM COVER TO TOP.
- ON 150mm THICK DGB20 COMPACTED SUBGRADE (ASSUMED 3% CBR)

- FLEXIBLE PAVEMENT DESIGN OPTION FOR CARPARK AND ACCESS ROADS/DRIVEWAYS;
- 50MM THICK AC14 WITH SBS POLYMER MODIFIED BINDER ON 190MM THICK DGB20 ON
- 200MM THICK DGS40

LANDSCAPE SET DOWN
- 330mm

PEDESTRIAN PAVEMENT SET DOWN
- 150mm

MINI GOLF AND DRIVING RANGE AREA SET DOWN
- 250mm

DRIVEWAY AREA SET DOWN
- 330mm

0 20 40 60 80 100m
20 15 10 5
SCALE 1:1000

BULK EARTHWORKS CUT AND FILL PLAN

SCALE 1:1000

FOR DA ONLY

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Project
THE GREENS - PROPOSED SPORTING CLUB
880 CAMDEN VALLEY WAY, GLEDSWOOD HILLS

Title
BULK EARTHWORKS CUT AND FILL PLAN

Drawn	Designed	Original issue date
M.Barrozo	S.Yu	MAR 2024
Checked	Approved	Scale @A1
T.Dempsey	A.Francis	1:1000

Drawing number 230605_DA_BE01
Revision 02