SHEET No	DRAWING DESCRIPTION	REV	DATE
SN	STRUCTURAL NOTES	0	02.12.25
CN	CIVIL NOTES	0	02.12.25
C100	TOPO PLAN	0	02.12.25
C100a	BULK EARTHWORK PLAN	1	02.12.25
C101	GRID 1 & 2	1	02.12.25
C102	GRID 3	1	02.12.25
C103	GRID 4	1	02.12.25
C104	GRID 5	1	02.12.25
C105	GRID 6	1	02.12.25
C106	GRID 7	1	02.12.25
C107	GRID LINE A & B	1	02.12.25
C108	GRID LINE C & D	1	02.12.25
C109	GRID LINE E & F	1	02.12.25
C110	GRID LINE G & H	1	02.12.25
C111	SECTION ALONG RETAINING WALL 1 & 2	1	02.12.25
C112	RETAINING WALL FOUNDATION PLAN	1	02.12.25
C113	RETAINING WALL SECTION & DETAIL	1	02.12.25
C114	DRAINAGE PLAN	1	02.12.25

PROJECT: CIVIL & STRUCTURAL DESIGN OF MFMR PROVINCIAL OFFICE AUKI-HAUHUI RD SOLOMON ISLAND

CLIENT

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FOR TENDER

DO NOT SCALE - IF IN DOUBT, ASK

ORIGINAL SIZE A1

GENERAL

1. ALL NOTES SHALL BE READ IN CONJUNCTION WITH THE DOCUMENTS AND DESIGN DRAWINGS
2. ALL WORKS SHALL BE CONSTRUCTED AS DETAILED IN THE DESIGN DRAWINGS AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT
3. CONTRACTOR SHALL LIASE WITH SERVICES AUTHORITIES FOR LOCATION OF SERVICES PRIOR TO ANY CONSTRUCTION WORK
4. ALL CROSS REFERENCES TOSOLOMONROADS AUTHORITY'S STANDARD, NZTA'S AND AUSROADS GUIDE SHALL BE TO THE LATEST VERSION
5. THE DRAWINGS SHALL BE READ IN ON CONJUNCTION WITH THE CONTRACT DOCUMENT AND SPECIFICATION. THE CONTRACTOR SHALL INFORM THE ENGINEER FOR ANY DISCREPANCIES PRIOR TO PROCURING MATERIAL AND COMMENCING WORKS

SETTING OUT

1. THE CONTRACTOR SHALL CHECK ALL DRAWINGS AND VERIFY LEVELS/DIMENSIONS/ SETOUT PRIOR TO COMMENCEMENT OF WORK AND REPORT DISCREPANCIES IF ANY IMMEDIATELY TO THE ENGINEER
2. THE CONTRACTOR SHALL TAKE ALL STEPS TO INVOLVE THE ENGINEER TO VERIFY THE LEVELS/DIMENSIONS/SET-OUTS ON SITE.
3. ALL LEVELS/DIMENSIONS/SET-OUTS ARE IN METERS UNLESS STATED OTHERWISE.
4. FLISS BOUNDARIES AS SHOWN IN THE DRAWINGS SHALL BE VALIDATED BY THE CONTRACTOR IN ADVANCE OF CONSTRUCTION, AND ANY ANOMALIES MUST BE ADVISED TO NRW MACALLAN IMMEDIATELY.
5. TOE OF BATTER SLOPES THAT ARE SHOWN CLOSE TO PROPERTY BOUNDARIES WILL REQUIRE CONFIRMATION ON SITE. SMALL TOE RETAINING WALLS MAY BE INTRODUCED TO ENSURE WORKS ARE WITHIN THE LEGAL ROAD BOUNDARIES. SITE SPECIFIC SOLUTIONS WILL BE ARRANGED ON SITE WITH THE ENGINEER.

ROADS

1. ENGINEER TO ASSESS ALL CARRIAGEWAY REINSTATEMENT WORK TO CONFIRM SUITABILITY OF EXISTING MATERIAL PRIOR TO ANY REINSTATEMENT WORK. THE CONTRACTOR SHALL ALLOW IN THEIR RATES FOR THE APPROPRIATE TESTING TO CONFORM TO THE SPECIFICATIONS.
2. ALL JOINTS BETWEEN THE CONTRACT WORK AND EXISTING MUST BE SAWCUT NEATLY. SAWCUTTING SHALL GENERALLY BE SQUARE AND/OR PARALLEL TO THE KERB ALIGNMENT AND/OR CARRIAGEWAY. DRY CUTTING IS NOT PERMITTED. ALL JOINTS ACROSS CARRIAGEWAY SHALL BE SEALED WITH A BITUMASTIC COMPOUND OR SIMILAR METHOD APPROVED BY ENGINEER.
3. THE CONTRACTOR SHALL UNDERTAKE LEVEL SURVEY ON ALL FOOTPATHS AND DRAINAGE CHANNELS TO ENSURE THAT NO PONDING WILL OCCUR. WORK MAY BE REQUIRED TO EXTEND BEYOND THE LIMITS SHOWN IN THE DESIGN DRAWINGS WITH THE ENGINEER'S APPROVAL.
4. ALL KERB PERIMETER AT PEDESTRIAN REFUGES, TRAFFIC ISLANDS AND SPLITTER ISLANDS MUST NOT BE PAINTED WHITE
5. NEW KERBS ADJACENT TO GRASS BERM OR PLANTING BED TO BE POINTED BEFORE REINSTATEMENT WITH TOPSOIL, MULCH ETC.

ROAD MARKING

1. THE CONTRACTOR SHALL ENSURE THAT ALL REINSTATED ROAD MARKINGS ARE TO BE EXTENDED AS REQUIRED BEYOND THE LIMITS SHOWN IN THE DRAWINGS TO ACHIEVE CONTINUITY MATCHING INTO THE EXISTING LANE MARKINGS.
2. ALL REDUNDANT LANE MARKING SHALL BE PERMANENTLY REMOVED. BLACKING OUT OF MARKINGS WITH PAINT IS NOT PERMITTED
3. ALL ROAD MARKINGS TO BE LAID IN TWO COATS WITHIN A MONTH OF EACH OTHER. ALL FIRST COAT MARKINGS SHALL BE OF REFLECTORISED PAVEMENT MARKINGS.
4. ALL SECOND COAT CONTINUITY LINES, FLUSH MEDIAN BARS, NO OVERTAKING LINES, PARKING RESTRICTION LINES AND PEDESTRIAN SYMBOL MARKINGS SHALL BE REFLECTORISED PAVEMENT MARKING. ALL OTHER ROAD MARKINGS SHALL BE LONG LIFE PAVEMENT MARKING.

LIGHTING

1. ALLOWED FOR IN THE RATES UNLESS STATED OTHERWISE.
2. ALL LIGHTING INSTALLATIONS SHALL MEET WITH THE MANUFACTURER'S REQUIREMENTS.
3. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ELECTRICITYSOLOMONLIMITED,SOLOMONROADS AUTHORITY AND THE REQUIREMENTS OF AS/NZS3000 2007 AND AS/NZS 1158.
4. ENSURE THAT ALL COLUMNS ARE WELL CLEAR OF UNDERGROUND SERVICES. IF NECESSARY POSITIONS MAY BE ALTERED BY UP TO 1m WHILE RETAINING GENERAL POLE ARRANGEMENT TO AVOID CLASHES WITH UNDERGROUND SERVICES, CONFIRM FROM THE ENGINEER FIRST.
5. THE CONTRACTOR SHALL BE A SIEA ACCREDITED CONTRACTOR AND EFL APPROVED TO INSTALL ASSETS ON THE SIEA NETWORK.
6. INSTALL A DRIVEN EARTH AT EVERY COLUMN.
7. ALL NEW STREET LIGHT POLES TO BE MANUFACTURED TO NZS 4676 AND GALVANIZED TO AS/NZS 4680 2006.

TRAFFIC SIGNS

1. ALL TRAFFIC SIGNS INSTALLATION TO COMPLY WITH CONTRACT SPECIFICATION
2. ALL ROAD INFORMATION SIGNS TO BE IN ACCORDANCE WITH MID'S STANDARD FOR TRAFFIC SIGNS AND NZTA P24 STANDARD.
3. WHEREVER APPLICABLE EXISTING TRAFFIC SIGNS AND POLES ARE TO BE REUSED.
4. ALL RETRO-REFLECTIVE SHEETING USED FOR TRAFFIC SIGNS SHALL BE CLASS 1 AND MUST CONFORM TO THE COLOUR REQUIREMENTS OF AS/NZS 1906.1 AND 1906.2.2009

CO-ORDINATE SYSTEM

1. ALL CO-ORDINATES ARE IN TERMS OFSOLOMONMAP GRID.
2. ALL LEVELS ARE IN TERMS OFSOLOMONDEPARTMENT OF LANDS AND SURVEY BENCH MARKS

TELECOM

ALL WORKS SHALL CONFORM TO THE REQUIREMENTS OF TELECOMSOLOMONLIMITED,SOLOMONROADS AUTHORITY AND CONTRACT SPECIFICATIONS.

DRAINAGE

1. EXISTING SIDE DRAIN MAINTENANCE AND RE-GRADING WORKS WILL REQUIRE TEMPORARY OCCUPATION ACCESS TERMS AND CONDITIONS AS NEGOTIATED BY THE CONTRACTOR DIRECTLY WITH THE LAND OWNER. THERE ARE EXISTING DRAINS THAT APPEAR TO BE WITHIN PRIVATE PROPERTY WHERE THIS WILL BE REQUIRED.
2. HANDLING AND INSTALLATION OF DRAINAGE MATERIALS SHALL MEET THE REQUIREMENTS OFSOLOMONROADS AUTHORITY STANDARDS, ALL APPLICABLE MID'S STANDARDS AND MANUFACTURER'S SPECIFICATIONS.
3. THE ENGINEER MAY INSTRUCT OR ALLOW ABANDONMENT IN PLACE INSTEAD OF FULL REMOVAL OF PARTS OF OBSOLETE DRAINAGE WHERE THE RISK OF FULL REMOVAL ACTIVITY MAY NOT BE WARRANTED.
4. EXCEPT AS OTHERWISE SPECIFIED, ALL NEW PUBLIC STORM WATER CATCHPITS SHALL BE STANDARD BACK ENRTY CATCHPIT AS PER STANDARD DETAILS EITHER SHALLOW OR NORMAL INSTALLATION.
5. EXCEPT IN THE CASE OF AN EXTENSION TO AN EXISTING CATCHPIT LEAD, NEW PUBLIC CATCHPIT LEADS SHALL BE 300mm DIAMETER RRJ RC CLASS 4 PIPE.
6. ALL PRIVATE DRAINAGE CONNECTIONS AND MODIFICATIONS SHALL BE UNDERTAKEN BY THE CONTRACTOR, AS AGREED WITH THE ENGINEER. WHERE A PRIVATE DRAINAGE DEVICE IS REMOVED OR RELOCATED, ALL LENGTHS OF OBSOLETE PRIVATE DRAIN PIPE SHALL BE TRACED AND CAPPED AT EACH END.
7. IN ADDITION TO ANY EXPLICIT RELOCATIONS DESCRIBED ON DRAWINGS, ALL PRIVATE AND PUBLIC DRAINAGE DEVICES, CHAMBERS AND HOUSINGS (INCLUDING VALVES, METERS, HYDRANTS, CATCHPIT FRAMES AND MANHOLE RISERS, THROATS & COVERS) SHALL BE VERTICALLY ADJUSTED AS REQUIRED TO SUIT NEW FINISHED SURFACE LEVELS. NO VARIATION SHALL APPLY FOR SUCH WORK.
8. IN ADDITION TO ANY EXPLICIT RELOCATIONS SHOWN ON DRAWINGS, ANY PRIVATE OR PUBLIC DRAINAGE ITEM (INCLUDING VALVES, METERS, HYDRANTS, CATCHPIT FRAMES AND MANHOLE RISERS, THROATS & COVERS) SHALL BE HORIZONTALLY ADJUSTED AS REQUIRED TO AVOID CONFLICT WITH FINAL KERB AND CHANNEL LOCATIONS. WHERE SUCH CONFLICT INVOLVES MANHOLE ACCESS, THE MANHOLE CONCRETE LID SHALL BE ROTATED TO ALLOW A NEW LOCATION FOR THE CAST IRON FRAME AND COVER AND INTERNAL ACCESS STEPS SHALL BE ADJUSTED ACCORDINGLY.
9. ALL SURFACE LEVEL PUBLIC DRAINAGE ITEMS (INCLUDING MANHOLE CONCRETE LIDS, CAST IRON COVERS & FRAMES) WITHIN THE AREA OF WORKS SHALL BE AUDITED BY THE CONTRACTOR TO CHECK THAT THEY SATISFY THE REQUIREMENTS FOR THEIR FINAL LOCATION IN CARRIAGEWAY, PUBLIC ROAD RESERVE, PRIVATE TRAFFICABLE AREAS AND PRIVATE UNTRAFFICKED AREAS. THE AUDIT RESULTS, DETAILING ANY DEFICIENCIES IN THE DEVICE STANDARDS, SHALL BE REPORTED TO THE ENGINEER.
10. THE CONTRACTOR SHALL KEEP NECESSARY RECORDS AND ENGAGE A REGISTERED PROFESSIONAL SURVEYOR TO PERFORM ALL DRAINAGE AS-BUILT SURVEYS AND SHALL FORWARD ALL NECESSARY INFORMATION IN THE MID/NRW SPECIFIED FORMAT TO ALLOW THE COMPLETION OF AS-BUILT DRAWINGS TO SATISFY MID REQUIREMENTS.
11. THE AS-BUILT PLANS SHALL INCLUDE, BUT NOT BE LIMITED TO:
- THE SURVEYED LOCATION (TO THE NEAREST 0.1m) AND LEVEL (TO THE NEAREST 0.01m) OF THE DISCHARGE STRUCTURE, WITH CO-ORDINATES EXPRESSED IN TERMS OFSOLOMONMAP GRID DATUM;
- LOCATION, DIMENSIONS AND LEVELS OF ANY MAJOR OVERLAND FLOWPATHS INCLUDING CROSS SECTIONS AND LONG SECTIONS
- DOCUMENTATION OF ANY DISCREPANCIES BETWEEN THE DESIGN PLANS AND THE AS-BUILT PLANS.

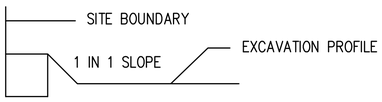
12. THE CONTRACTOR SHALL MAINTAIN FLOWS AT ALL TIMES EXCEPT AS MAY BE LEGALLY PERMITTED AFTER PROPER AND ADEQUATE LIAISON AND AGREEMENT WITH THE OWNERS OF ALL AFFECTED DRAINAGE. IF FLOWS ARE INTERRUPTED, THE CONTRACTOR SHALL ENSURE THAT THE TIMING AND SCALE OF INTERRUPTIONS TO SERVICING ARE IN ACCORDANCE WITH SUCH AGREEMENTS, COUNCIL REQUIREMENTS AND SOLOMONLAW AND REGULATORY CODES.
13. ALL SUB GRADE DRAINAGE (SUBSOIL PIPES) TO TERMINATE IN CATCHPITS OR CONNECTED INTO EXISTING SUBSOIL DRAIN ON THE DOWNSTREAM END.

BULK EARTHWORK

1. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM APPROPRIATE AUTHORITIES FOR DISCONTINUANCE OF SERVICES IF IT IS REQUIRED. COST OF CUTTING, SEALING AND RECONNECTION IS TO BE BORN BY THE CONTRACTOR. THE CONTRACTOR MUST PROVIDE ADEQUATE PROTECTION FOR ALL SERVICES ON SITE.
2. BULK EXCAVATION IS TO BE EXECUTED IN ACCORDANCE WITH THE DOCUMENTATION. COST OF ANY EXCESS BULK EXCAVATION IS TO BE BORN BY THE CONTRACTOR. EXCESS EXCAVATION IS TO BE BACKFILLED WITH 1 MPa CEMENT STABILISED SAND OR WITH ENGINEERED BACKFILL IF APPROVED BY THE ENGINEER.
3. THE CONTRACTOR MUST TAKE ALL NECESSARY MEASURES TO PREVENT ANY MOVEMENT OF THE STRUCTURES ON SURROUNDING PROPERTIES INCLUDING BUT NOT LIMITED TO BUILDINGS, ROADS, PAVEMENTS, FENCES, RETAINING STRUCTURES ETC.
4. WHERE ROCK BLASTING IS PERMITTED BY THE ENGINEER AND APPROPRIATE AUTHORITY, IT SHALL BE DONE BY EXPERIENCED PERSONNEL STRICTLY ADHERING TO THE REQUIREMENTS OF RELEVANT AUTHORITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MEASURES NECESSARY FOR THE PROTECTION OF SURROUNDING PROPERTIES AND FOR PUBLIC SAFETY.
5. ALL EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE. THE EXCAVATED MATERIAL CAN BE USED ON SITE FOR BACKFILLING OR LEVELLING ONLY IF APPROVED BY THE ENGINEER.
6. THE CONTRACTOR MUST ENSURE THAT NO WATER REMAINS IN THE EXCAVATION AT ANY TIME. NECESSARY PUMPS, SUMPS, TEMPORARY DRAINS ETC., REQUIRED FOR DEWATERING OF THE SITE ARE TO BE PROVIDED BY THE CONTRACTOR.

BULK EARTHWORK (CONT)

7. BULK EXCAVATION BATTERS AROUND THE PERIMETER OF THE EXCAVATION, UNLESS NOTED OTHERWISE ON DRAWINGS, SHALL BE AS PER THE SKETCH BELOW.
8. ADEQUATE DRAINAGE SHALL BE PROVIDED TO PREVENT WATER PONDING OR COLLECTING ADJACENT TO THE WORKS.
9. TRENCHES UNDER OR ADJACENT TO THE WORKS SHALL BE BACKFILLED WITH COMPACTED CLAY OR CONCRETE.
10. TRENCHES PARALLEL TO THE EDGE OF A STRUCTURE SHALL BE OFFSET A DISTANCE AT LEAST EQUAL TO THE DEPTH OF THE TRENCH EXCAVATION.
11. GEOTECHNICAL ENGINEER TO INSPECT BATTERS AND ADJUST SLOPES AS NECESSARY DURING CONSTRUCTION TO ENSURE ADEQUATE STABILITY OF BATTERS.



UNDERGORUND AND ABOVE GROUND UTILITIES NOTES

GENERAL

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE LATEST SERVICE PLANS FROM SERVICE PROVIDERS UNLESS NOTED OTHERWISE
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMISSIONS AND PERMITS TO COMMENCE WORK UNLESS NOTED OTHERWISE
3. IT IS THE CONTRACTOR'S RESPONSIBILITY UNDER THESOLOMONHEALTH AND SAFETY WORK ACT 1996, WHEREBY THE LOCATION OF ALL UNDERGROUND UTILITIES MUST BE ESTABLISHED BEFORE COMMENCING EXCAVATION AND TO HAND EXPOSE ANY PIPES AND CABLES BEFORE USING MACHINERY.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO ALLOW FOR ADEQUATE NOTICE WHEN REQUESTING FOR PLANS, MARK-OUTS AND PERMITS FROM THE UTILITY PROVIDERS.
5. THE ACCURACY OF THE UTILITY PLANS PROVIDED BY THE RELEVANT AUTHORITIES CANNOT ALWAYS BE GUARANTEED. ROAD REALIGNMENT, RECONSTRUCTION AND CHANGES TO PROPERTY BOUNDARIES CAN ALL AFFECT ACCURACY.
6. ALTERATIONS TO THE GROUND COVER MAY REDUCE OR INCREASE CABLE OR PIPE DEPTHS. EXPECT A CABLE OR PIPE TO BE AT ANY DEPTH. THE CONTRACTOR SHALL HAND DIG TO CONFIRM THE LOCATION OF CABLES OR PIPES.
7. WHERE A CABLE OR PIPE LOCATION HAS BEEN CARRIED OUT BY THE RELEVANT UTILITY PROVIDERS, ALLOW 0.5 METERS TOLERANCE FOR THE UNCERTAINTY IN THE ACCURACY OF THE LOCATING DEVICE.
8. CABLE LOCATIONS MARKED ON SITE IS TO CONFIRMED WITH SERVICE PROVIDER.
9. THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE RELEVANT UTILITY PROVIDERS WITHOUT DELAY IF ANY DAMAGE IS DONE TO THE UTILITIES (CABLE, WIRE OR PIPE).
10. ALL SERVICES SHALL BE ASSUMED TO BE LIVE UNTIL DISCONNECTED BY THE RELEVANT UTILITY PROVIDERS AND PROVED SAFE AT THE POINT OF WORK. WRITTEN CONFIRMATION OF DISCONNECTION SHOULD BE OBTAINED FROM THE SERVICE OWNER BEFORE REMOVING A REDUNDANT SERVICE.
11. CONSTRUCTION WORKS WILL NEED TO ALLOW FOR SITE CONSTRAINTS INCLUDING EXISTING OR NEW SERVICES AND INFRASTRUCTURE INCLUDING, BUT NOT LIMITED TO, STORM WATER, TREES (INCLUDING WORKS WITHIN THE DRIPLINE), ETC.

ELECTRICITY AUTHORITY (TO BE CONFIRMED WITH SERVICE PROVIDER).

1. IF THE WORKS ARE CLOSE TO A HIGH VOLTAGE SUB-TRANSMISSION CABLE, ABOVE 11,000 VOLTS, THE CONTRACTOR IS REQUIRED TO OBTAIN A PERMIT.
2. SUB-TRANSMISSION CABLES OPERATE AT HIGHER VOLTAGES AND ARE CRITICAL TO THE SECURITY OF ELECTRICITY SUPPLY OVER EXTENSIVE AREAS. ASOLOMONELECTRICITY AUTHORITY REPRESENTATIVE MUST BE ON SITE DURING ANY EXCAVATION WORKS IN THE VICINITY (GENERALLY WITHIN 1 METRE) OF SUCH CABLES. IN THE CASE OF A SUB-TRANSMISSION JOINT BAY, THERE MAY BE A NUMBER OF CABLES AND LINES NOT SHOWN ON THE PLAN.
3. WHEN EXCAVATING WITHIN 1 METRE OF A CABLE KNOWN LOCATION, USE HAND TOOLS ONLY. FOR THRUSTING, IT IS RECOMMENDED THAT THE POWER CABLES ARE EXPOSED AND THAT THE THRUST IS DIRECTED AWAY FROM THE CABLES. UNDER NO CIRCUMSTANCES SHALL THE THRUSTING BE TOWARDS A SUB-TRANSMISSION CABLE. WHEN THRUSTING PARALLEL TO A CABLE, IT IS RECOMMENDED THAT A CLEARANCE OF 3 METRES BETWEEN THE LINE OF THE THRUST AND THE CABLE IS MAINTAINED.
4. A LOOP OF CABLE MAY BE IN THE GROUND AT THE BASE OF ANY POLE AND ITS POSITION MAY NOT BE FULLY DETAILED ON THE PLAN. CABLES ARE NORMALLY COVERED WITH PRE-CAST CONCRETE
5. CABLE COVERS, BLACK PLASTIC CABLE COVERS OR 75mm X 25mm TIMBER BATTENS. WHERE SHOWN IN DUCTS OR MARKED THRUST, THE CABLES ARE NOT PROTECTED.
6. BARE COPPER EARTHING WIRES NOT SHOWN ON THE PLAN MAY BE EXPOSED DURING EXCAVATION. THESE WIRES ARE ESSENTIAL FOR THE SAFE OPERATION OF THE FEA NETWORK.
7. SERVICE CABLES TO A PROPERTY MAY BE SHOWN. WHERE CUSTOMER SERVICE CONNECTIONS ARE SHOWN, THESE INDICATE THE POSITION WHERE THE CABLE CROSSES THE FRONT BOUNDARY ONLY.

TELECOM (TO BE CONFIRMED WITH SERVICE PROVIDER).

1. IN INSTANCES WHERE FIBRE OPTIC AND/OR HIGH CAPACITY CABLES ARE POTENTIALLY AT RISK AND ARE WITHIN 1 METRE OF THE EXCAVATION AREA, A TELECOMSOLOMONREPRESENTATIVE MUST BE ON SITE DURING ANY EXCAVATION WORKS

WATER & SEWER (TO BE CONFIRMED WITH SERVICE PROVIDER).

1. WHERE A WATER AND SEWERAGE PIPE IS IDENTIFIED TO BE WITHIN THE WORK SITE, A WATER AUTHORITY OFSOLOMONPERMIT TO WORK SHALL BE OBTAINED, IN ADVANCE, PRIOR TO CONSTRUCTION WORKS.

OVERHEAD CABLES (TO BE CONFIRMED WITH SERVICE PROVIDER).

1. WHERE WORK WILL BE UNDERTAKEN UNDERNEATH ANY OVERHEAD CABLES, AN OVERHEAD PERMIT TO WORK SHALL BE OBTAINED, IN ADVANCE, PRIOR TO CONSTRUCTION WORKS.

FOR TENDER

DO NOT SCALE - IF IN DOUBT, ASK

ORIGINAL SIZE A1

ISSUE	DESCRIPTION	CHECKED	APPROVED	DATE
2.0	FOR TENDER ISSUE	RC	NK	02.12.25
1.0	PRELIMINARY	–	–	04.08.25

Client: fmc PACIFIC

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12D /CAD Drafter:	Designed:
FT	RC
Checked:	Date:
RC	02.12.25
Scale:	
1:1000@A1 1:2000@A3	

PROJECT: Civil & Structural Design of MFMR Provincial Office Auki-Hauhui Rd Solomon Island

TITLE: GENERAL CIVIL NOTES

JOB. NO: 22507209

REV. NO: 0

DRAWING. NO: CN

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STRUCTURAL NOTES

GENERAL

G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS, SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENTS FOR DECISION BEFORE PROCEEDING WITH THE WORK.

G2. ALL DIMENSIONS ARE IN MILLIMETRES. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS. LEVELS SHOWN ON THE STRUCTURAL DRAWINGS ARE TO THE TOP OF STRUCTURAL CONCRETE OR STRUCTURAL STEELWORK UNLESS NOTED OTHERWISE.

G3. SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE BUILDER.

G4. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER AS REQUIRED.

G5. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AS AND NZS CODES AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES.

G6. REFER TO ARCHITECTURAL DRAWINGS FOR BLOCK WALL THICKNESS WHERE NOT MENTIONED ON THESE DRAWINGS AND FOR FALLS IN SLABS, EXTRA PACKING, WATERPROOFING MEMBRANES, CONTRACTION JOINT FILLING MATERIALS AND ALL OTHER ARCHITECTURAL FEATURES SUCH AS DRIP GROOVES, POUR BREAKS IN OFF-FORM CONCRETE, FILLETS AND THE LIKE.

G7. THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS IN ACCORDANCE WITH NZS 4203.

FLOOR USAGE	LIVE LOAD (kPa)
SUSPENDED SLABS & STAIRS & LANDINGS	3.0 kPa (Office) 4.0 kPa

NOTE: A SUPERIMPOSED DEAD LOAD OF 1.0KPA HAS BEEN ALLOWED FOR PARTITIONS & SERVICES.

G8. THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING WIND LOAD IN ACCORDANCE WITH AS 1170 PART 2.
BASIC WIND VELOCITY: 69 M/S
TERRAIN CATEGORY: VP = 2.0

G9. THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED FOR EARTHQUAKE LOADS IN ACCORDANCE WITH NZS 1170.5:2004 WITH ZONE FACTOR Z = 1.0
REFER TO THE GEOTECHNICAL INVESTIGATION REPORT FOR ANY FURTHER RECOMMENDATIONS AND DESIGN PARAMETERS, IF SUCH A REPORT IS AVAILABLE FOR THIS PROJECT.

CIVIL NOTES

REFER TO GEOTECHNICAL REPORT FOR RECOMENDATIONS

DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES, EXCEPT, LEVELS AND COORDINATES WHICH ARE IN METRES. THE DECIMAL SEPERATOR USED IS THE POINT (DOT) NOT COMMA. USE GIVEN DIMENSIONS. DO NOT SCALE OR MEASURE OFF DRAWINGS OR CAD FILES. IF IN DOUBT, ASK.

STABILITY

MAINTAIN THE STRUCTURE IN A STABLE CONDITION DURING CONSTRUCTION. DO NOT EXCEED DESIGN LOADS SHOWN ON SPECIFIC DRAWINGS OR CAUSE ANY ELEMENT TO BE OVERSTRESSED. PROVIDE TEMPORARY BRACING AS REQUIRED.

CONCRETE

C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH NZS 3109 PART 1 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

C2. CONCRETE QUALITY: –

ELEMENT	SLUMP	CONCRETE TYPE	MAX. AGG. SIZE	MINIMUM CONCRETE STRENGTH F'c MPa
FOOTINGS	80	A	20	32 MPa
SLABS ON GROUND	80	A	20	32 MPa

CONCRETE CONT.

REFER TO SLAB NOTES FOR GENERAL SLAB THICKNESS AND COVERS.
THIS SYMBOL APPLIES ELSEWHERE.

ELEMENT	CONCRETE COVER		
	CAST AGAINST & EXPOSED TO EARTH	EXPOSED TO EARTH OR WEATHER	NOT EXPOSED TO WEATHER OR EARTH
a) Pad footings	75	–	–
b) Strip footings	75	–	–
c) Slabs, walls, & ribs 20mm bars or wire and smaller	75	35	20
d) Beams			
Longitudinal reinf.	80	50	40
Ties and stirrups	65	40	25
e) Columns			
Longitudinal reinf.	80	50	40
Ties and stirrups	65	40	25

C4. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.

C5. CONSTRUCTION JOINTS WHERE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE WELL SCABBLED AND PAINTED WITH EPOXY PRIOR TO POURING OF FRESH CONCRETE.

C6. CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.

C7. BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS, IF ANY.

C8. PROVIDE 20 CHAMFERS TO ALL COLUMNS & BEAMS UNLESS VARIED BY ARCHITECTS DRAWING.

C9. PROVIDE 20 DRIP GROVES TO SOFFITS OF ALL EXTERNAL SLABS & BEAMS.

C10. NO PENETRATIONS, RECESSES, SLEEVES, ETC OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

C11. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE CONCRETE COVER TO REINFORCEMENT WITHOUT THE APPROVAL OF THE ENGINEER. THE CONCRETE COVER TO EMBEDDED PIPES OR CONDUITS SHALL BE A MINIMUM OF 20 MM.

REINFORCEMENT

R1. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY. IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.

R2. SPLICES IN THE REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN. THE WRITTEN APPROVAL OF THE ENGINEER SHALL BE OBTAINED FOR ANY OTHER SPLICES. LAP LENGTH FOR DEFORMED BARS SHALL BE AS TABULATED BELOW.

–ALL LAPS ARE TO BE IN ACCORDANCE WITH NZS 3101:2000

CONC. 30 MPA STEEL GR. 500	BAR DIAMETER					
	HD10	HD12	HD16	HD20	HD25	HD32
ALL BARS EXCEPT AS BELOW	550	650	850	1050	1500	1800
FOR – COLUMNS. VERT WALL BARS. BOTTOM OF BEAMS. SLABS < 300MM	400	500	650	800	1150	1300

CONC. 30 MPA STEEL GR. 300	BAR DIAMETER					
	D10	D12	D16	D20	D25	
ALL BARS EXCEPT AS BELOW	400	450	600	750	900	
FOR – COLUMNS. VERT WALL BARS. BOTTOM OF BEAMS. SLABS < 300MM	300	350	450	550	700	

– STAGGER LAPS AS MUCH AS PRACTICABLE. TOP STEEL SHALL BE LAPPED WITHIN CENTRAL HALF OF THE OF THE BEAM SPAN & BOTTOM BEAM BARS WITHIN 1/4 ON EITHER SIDE OF SUPPORT UNO.

– FOR PLAIN BARS, LAP LENGTHS SHALL BE TWICE THE LENGTHS AS SHOWN ABOVE.

R3. WELDING OF REINFORCEMENT WILL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.

REINFORCEMENT CONT.

R4. ALL REINFORCEMENT FABRIC SHALL COMPLY WITH NZS 3402P AND SHALL BE SUPPLIED AS FLAT SHEETS.

TYPICAL FABRIC LAP: –



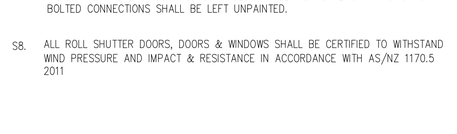
R5. PLACE SUFFICIENT BAR CHAIRS UNDER BOTTOM REINFORCING RODS AND TOP CROSSRODS IN SLABS TO ALLOW THEM TO BE SUPPORTED IN THEIR CORRECT POSITIONS DURING CONCRETING (NOT GREATER THAN 900 MM CENTRES BOTH WAYS).

R6. REINFORCEMENT LAYERS DENOTED THUS: –
TT – DENOTES TOP BARS LAID LAST
T – DENOTES TOP BARS LAID THIRD
B – DENOTES BOTTOM BARS LAID SECOND
BB – DENOTES BOTTOM BARS LAID FIRST

R7. BENDING OF REINFOREMENT
BARS PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE SITE BENT, UNLESS NOTED OR SHOWN ON THE DRAWINGS OR SPECIFICALLY APPROVED BY THE ENGINEER

THE MINMUM INTERNAL DIAMETER OF BEND OF ALL BARS SHALL BE AS FOLLOWS UNO.

STEEL GRADE	MINIMUM DIAMETER OF BEND			
	MAIN REINFORCEMENT		STIRRUPS & TIES	
	BAR ø	MIN. ø OF BEND	BAR ø.	MIN.ø. OF BEND
GRADE 300 & GRADE 500	10	50	10	40
	12	60	12	50
	16	80	16	70
	20	100	20	80
	25	150		
	32	200		



STEELWORK

S1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100 AND AS 1554 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

S2. UNLESS OTHERWISE NOTED, ALL STEEL SHALL BE IN ACCORDANCE WITH: –

AS 1204 GRADE 250 FOR ROLLED SECTIONS
AS 1163 GRADE 250 FOR R.H.S. SECTIONS
AS 1163 GRADE 200 FOR C.H.S. SECTIONS
AS 1204 GRADE 350 FOR ALL HIGH STRENGTH STEEL.

S3. THE BUILDER SHALL PREPARE WORKSHOP DRAWINGS AND SHALL SUBMIT THREE COPIES OF EACH DRAWING FOR APPROVAL. FABRICATION SHALL NOT COMMENCE UNTIL APPROVAL HAS BEEN RECEIVED. APPROVAL DOES NOT INCLUDE DIMENSIONS.

S4. UNLESS NOTED OTHERWISE, ALL BOLTS TO BE 16 DIAMETER COMMERCIAL GRADE STRUCTURAL BOLTS OF GRADE 4.6 SNUG TIGHT (M16–4.6/S) CONFORMING TO AS 1111.
BOLTS – DESIGNATED BY THE NUMBER, DIAMETER, GRADE AND TIGHTENING PROCEDURE. E.G.
4–M16 4.6/S MEANS 4 16 DIA. COMMERCIAL GRADE BOLTS SNUG TIGHT. 6–M20 8.8TF MEANS 6M20 HIGH STRENGTH STRUCTURAL BOLTS FULLY TENSIONED IN A FRICTION JOINT.
6–M24 8.8TB MEANS 6M24 HIGH STRENGTH STRUCTURAL BOLTS FULLY TENSIONED IN A BEARING JOINT. (SOME SLIP ALLOWED.)

ALL HOLES SHALL BE DRILLED AND SHALL BE 2MM LARGER THAN THE BOLT DIAMETER U.N.O. HOLES IN BASEPLATES MAY BE 5MM LARGER THAN THE BOLT DIAMETER U.N.O. ALL BOLTS SHALL HAVE AT LEAST ONE THREAD PROJECTING THROUGH BOTH SIDES OF THE NUT. BOLT SPACING, EDGE DISTANCES, GAUGE LINES, BEAM COPES ETC, TO CONFORM TO A.I.S.C STANDARDISED CONNECTIONS U.N.O. REMOVE ALL SHARP EDGES AND BURRS.

S5. UNLESS OTHERWISE NOTED, ALL WELDS TO BE 6 MM CONTINUOUS FILLET FROM E41XX ELECTRODES. ALL WELDS SHALL BE GENERAL PURPOSE WELDS UNLESS NOTED OTHERWISE. STRUCTURAL PURPOSE WELDS SHALL BE DENOTED THUS 'SP'. BUTT WELDS WHERE INDICATED IN THE DRAWINGS ARE TO BE COMPLETE PENETRATION BUTT WELDS AS DEFINED IN AS 1554. WELDING SYMBOLS TO AS 1101 PART 3.

S6. CONCRETE ENCASED STEELWORK SHALL BE WRAPPED WITH 665 MESH AND HAVE A MINIMUM OF 50 COVER UNLESS NOTED OTHERWISE.

STEELWORK CONT.

S7. HIGH STRENGTH FRICTION GRIP BOLTS, NUTS AND WASHERS SHALL COMPLY WITH THE RELEVANT REQUIREMENTS OF AS 1252, SHALL BE INSTALLED IN ACCORDANCE WITH AS 1511 AND SHALL BE TIGHTENED TO THE CORRECT TENSION USING APPROVED LOAD INDICATING WASHERS. CONTACT SURFACES OF ALL HIGH STRENGTH FRICTION GRIP BOLTED CONNECTIONS SHALL BE LEFT UNPAINTED.

S8. ALL ROLL SHUTTER DOORS, DOORS & WINDOWS SHALL BE CERTIFIED TO WITHSTAND WIND PRESSURE AND IMPACT & RESISTANCE IN ACCORDANCE WITH AS/NZ 1170.5 2011

S9. STRUCTURAL STEELWORK SHALL HAVE THE SURFACE TREATMENT IN ACCORDANCE WITH THE SPECIFICATION.

ELEMENT	SURFACE CLEANING	PRIMING
All UNO	Sand blast to class 2.5	Resene zncalene 10 primer (75um single
		Resene armour coat 510 finish coat (125um)single coat
		Resene uracryl 403 top coat (50um single coat)

NOTE: CONCRETE ENCASED STEELWORK SHALL BE LEFT UNPAINTED.

S10 THE BUILDER SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL TO STEEL AND TIMBER TO STEEL WHETHER OR NOT DETAILED IN THE DRAWINGS.

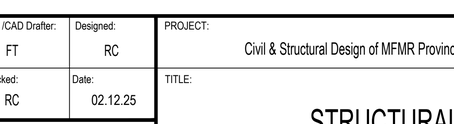
S11 FINISH COATING COLOUR SHALL BE ACCORDING TO CLIENTS SPECIFICATION IF NOT SPECIFIED IN THE SCOPE OF WORKS

GLAZING

G1. GENERAL: REFER TO THE APPLICABLE FIJI STANDARD FORM OF BUILDING CONTRACT AND THE PRELIMINARY & GENERAL CLAUSES WHICH WILL ALSO APPLY TO THIS WORK. THE FOLLOWING STANDARDS SHALL BE FORM PART OF THIS SPECIFICATION: NZSS SR2, AS 1170 PART 2011, AS 2014/2048 AS 1288 PART 1:1979 "GLASS INSTALLATION CODE"

G2. STRENGTH CERTIFICATION: THE METAL WINDOWS & DOOR SUPPLIER AND THE GLAZIER WILL BE REQUIRED TO CERTIFY THAT THE METAL DOOR & WINDOW FRAMING & GLAZING SYSTEM IS CAPABLE OF WITHSTANDING THE PERMISSIBLE WINDSPEED OF 75m/sec & LOADINGS IN ACCORDANCE WITH STANDARDS. THE HEIGHT OF THE BUILDING SHOULD ALSO BE CONSIDERED. THE GLAZING SUPPLIES/DESIGN SHALL BE CONSIDERS OF ALL LOADING SITUATION IN AS/NZS 1170.2:2011

DESIGNATION OF CROSS SECTIONS



DRAFTING ABBREVIATIONS

ALT.	ALTERNATE	MIN.	MINIMUM
APPROX.	APPROXIMATE	MS	MILD STEEL
ADDN	ADDITIONAL	⅋Ñ	NEW
B	BOTTOM	N.D.T	NON–DESTRUCTIVE TESTING
BLK	BLOCKWALL	NF	NEAR FACE
B.S	BOTH SIDES	NOM.	NOMINAL
BW	BOTHWAYS	No.	NUMBER
C	CENTRE	NTS	NOT TO SCALE
C/L	CENTRE LINE	O/A	OUTSIDE OVERALL
C/C	CENTRE TO CENTRE	O.D	OUTSIDE DIAMETER
C/S	COURSES	PL.	PLATE
C.A.R	COVER ALL AROUND	PC	PRECAST CONCRETE
CHS	CIRCULAR HOLLOW SECTION	PSC	PRESTRESSED CONCRETE
C.J.	CONTROL JOINT	R	PLAIN BAR GRADE 300
COL	COLUMN	RC	REINFORCED CONCRETE
CONC.	CONCRETE	REINF	REINFORCEMENT
CONN.	CONNECTION	RHS	RECTANGULAR HOLLOW SECTION
C.O.S.	CHECK ON SITE		
CVR	COVER	SHT	SHEET
CRS	CENTRES	SPEC	SPECIFICATION
D	DEFORMED BAR GRADE 300	RSC	ROLLED STEEL CHANNEL
db	BAR DIAMETER	RSJ	ROLLED STEEL JOIST
DET	DETAIL	STIFF	STIFFENER
DIA	DIAMETER	SIM	SIMILAR
D.J.	DOWELLED JOINT	SJ	SAWCUT JOINT
DPC	DAMP PROOF COURSE	STG	STAGGER
DWG/DRG	DRAWING	STIR	STIRRUP
EGL	EXISTING GROUND LEVEL	STA	STARTER
EXTG	EXISTING	SHS	SQUARE HOLLOW SECTION
EF	EACH FACE	STR, STA	STARTER
EW	EACH WAY	SYM.	SYMMETRICAL
EL	ELEVATION	T	TOP
EX	OUT OF	TBC	TO BE CONFIRM
FF	FAR FACE	TFB	TAPER FLANGE BEAM
FFL	FINISHED FLOOR LEVEL	THK	THICK
FGL	FINISHED GROUND LEVEL	TOC	TOP OF CONCRETE
FL	FLAT	TOS	TOP OF STEEL
GALV'D.	GALVANISED	TRM	TRIMMER
G.L	GROUND LEVEL	TYP	TYPICAL
G.P.C.	GROUT PROOF COURSE	UB	UNIVERSAL BEAM
HORZ.	HORIZONTAL	UC	UNIVERSAL COLUMN
H.D.	HOLDING DOWN (BOLT)	UNO	UNLESS NOTED OR SHOWN OTHERWISE
I.D	INSIDE DIAMETER		
I.L	INVERT LEVEL	U/S	UNDERSIDE
I.P	INTERSECTION POINT	VERT.	VERTICAL
KJ	KEYED JOINT	L	SINGLE RSA
LAR	LAP AT RANDOM	VJ	VERTICAL JOINT
JL	DOUBLE RSA (BACK TO BACK)	VL	VARYING LENGHT
LG	LONG	VERT.	VERTICAL
MAX.	MAXIMUM		

WELDING SYMBOLS

FORM OF TEXT	NOTES	SKETCH OF WELD	SYMBOLIC REPRESENTATION
FILLET	WHEN THE SYMBOL IS BELOW THE REFERENCE LINE, IT REFERS TO A WELD ON THE "ARROW SIDE" OF THE JOINT.		
FILLET	WHEN THE SYMBOL IS ABOVE THE REFERENCE LINE IT REFERS TO A WELD ON THE "OTHER SIDE" OF THE JOINT.		
DOUBLE FILLET	WHEN THE SYMBOL IS BOTH SIDES OF THE REFERENCE LINE IT REFERS TO WELDS ON "BOTH SIDES" OF THE JOINT.		
SQUARE BUTT	WHEN THIS TYPE OF WELD IS USED COVERING NOTES WILL BE GIVEN.		
SINGLE V BUTT		1 to 5mm, 60.00°, 0 to 1mm	
SINGLE V BUTT WITH SEALING RUN.			
DOUBLE V BUTT		3 to 5mm (P), 1 to 3mm (Rebar), 60.00°, 0 to 3mm (P), 0 (Rebar)	
SIZE & LENGTH OF FILLET WELDS	SIZE OF WELDS (MM) BEFORE SYMBOL, LENGTH OF WELD (MM) AFTER SYMBOL.	6, 6	6, 50
FILLET WITH UNEQUAL LEG LENGTH	VERTICAL LEG LENGTH (MM) GIVEN FIRST, HORIZONTAL LEG LENGTH (MM) FOLLOWS.	10, 6	10x6
FLASH BUTT	FOR REINFORCING BAR		
SINGLE BEVEL BUTT		0–3mm, 5mm, 45–50°	
DOUBLE BEVEL BUTT		0–6mm, 5mm, 45–50°	
SHOP WELD ALL ROUND	A CIRCLE AT THE JOINT IN THE REFERENCE LINE INDICATES A CONTINUOUS SHOP WELD ALL AROUND THE JOINT.		
SHOP AND SITE WELD	SITE WELD INDICATED BY FLAG AT THE JOINT IN THE REFERENCE LINE. WITH THE ADDITION OF AN OUTER CIRCLE AT JOINT IN REFERENCE LINE INDICATES A CONTINUOUS SITE WELD ALL ROUND.	Shop weld, Site weld, Site weld all round	
INTER–MITTENT WELDS: LENGTH AND SPACING	WELDED LENGTH GIVEN BY UNBRACKETED NUMBER (MM) SPACE BETWEEN WELD (MM) GIVEN BY BRACKETED NUMBER EG 50(75)	50, 75	50(75)

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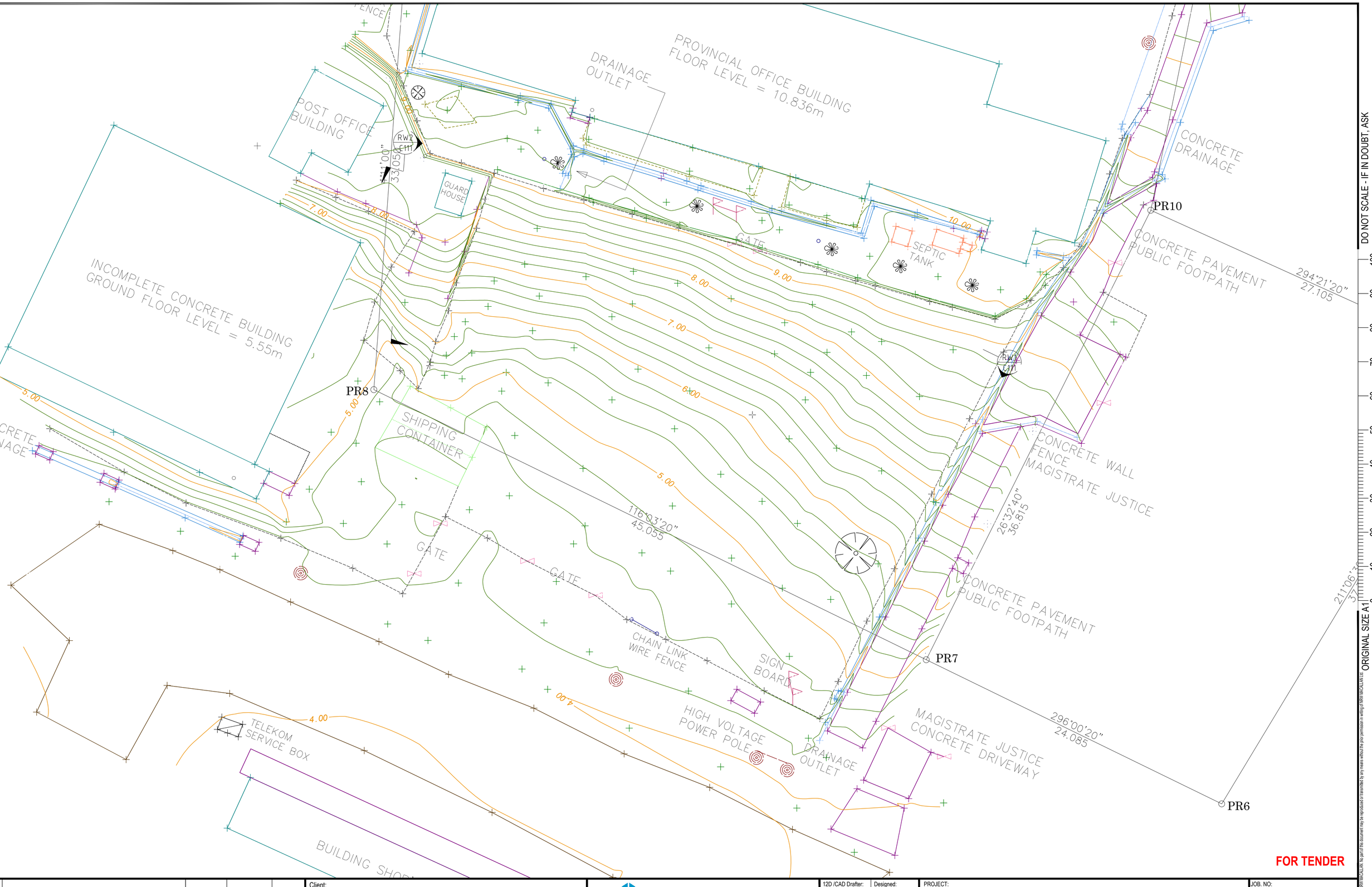
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JOB. NO: 22507209

REV. NO: 0

DRAWING. NO: SN

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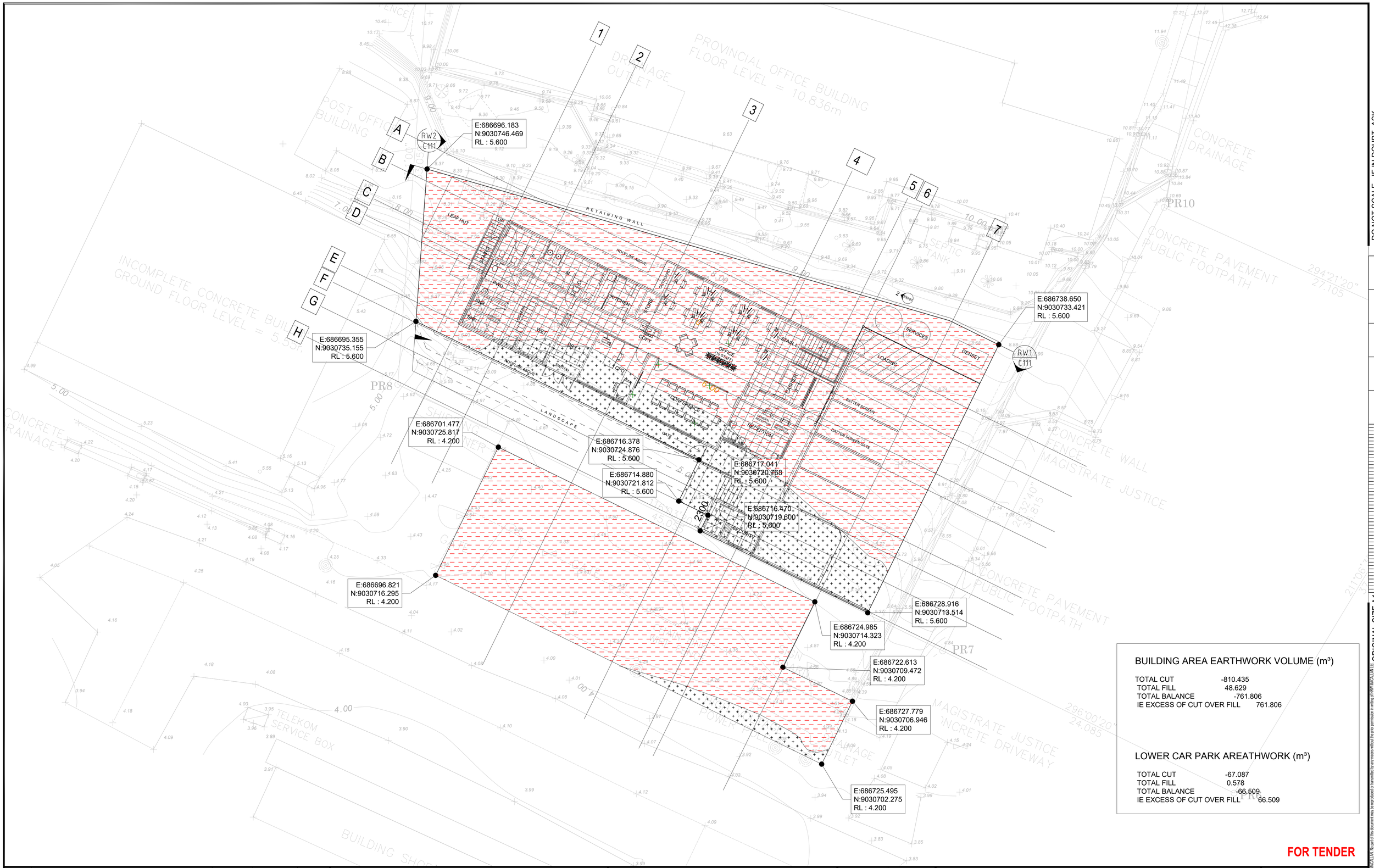
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BUILDING AREA EARTHWORK VOLUME (m³)

TOTAL CUT	-810.435
TOTAL FILL	48.629
TOTAL BALANCE	-761.806
IE EXCESS OF CUT OVER FILL	761.806

LOWER CAR PARK AREATHWORK (m³)

TOTAL CUT	-67.087
TOTAL FILL	0.578
TOTAL BALANCE	-66.509
IE EXCESS OF CUT OVER FILL	66.509

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TITLE: BULK EARTHWORK PLAN

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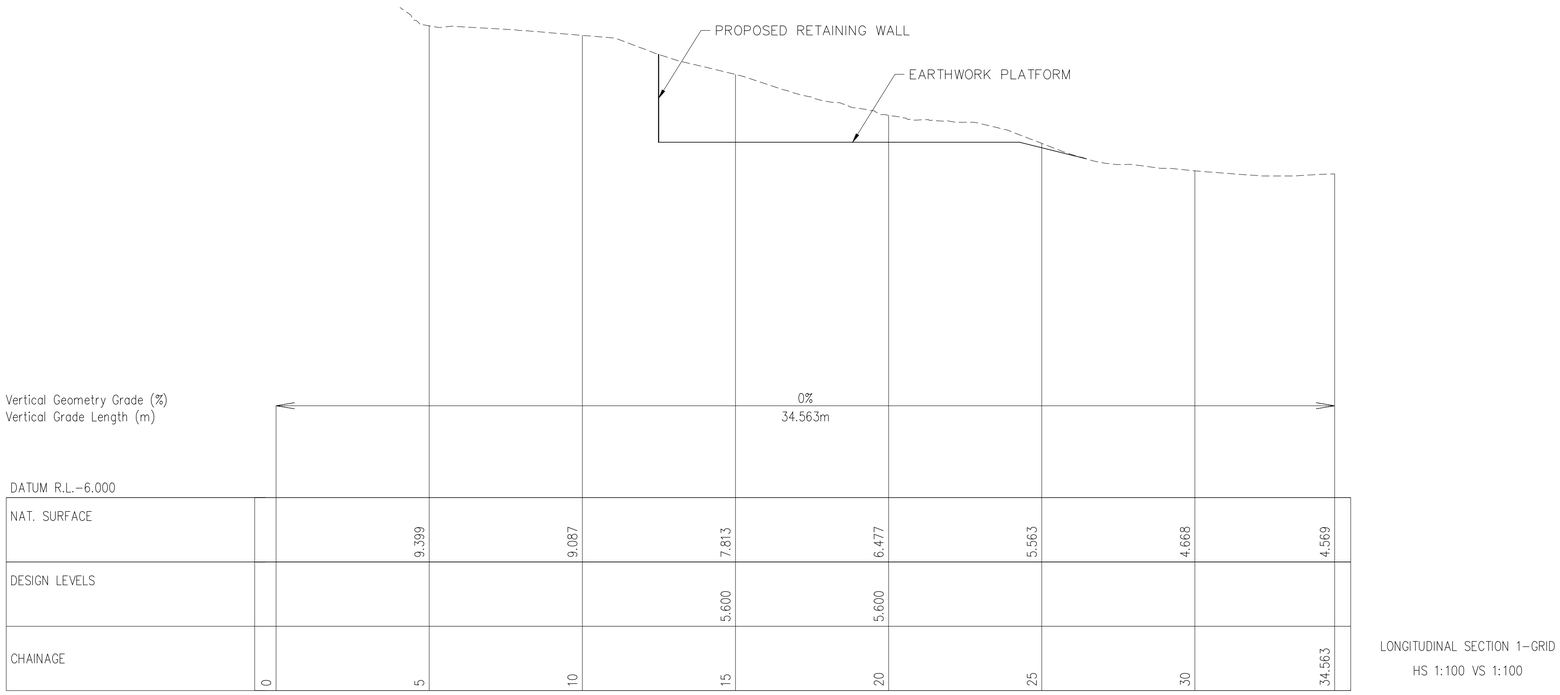
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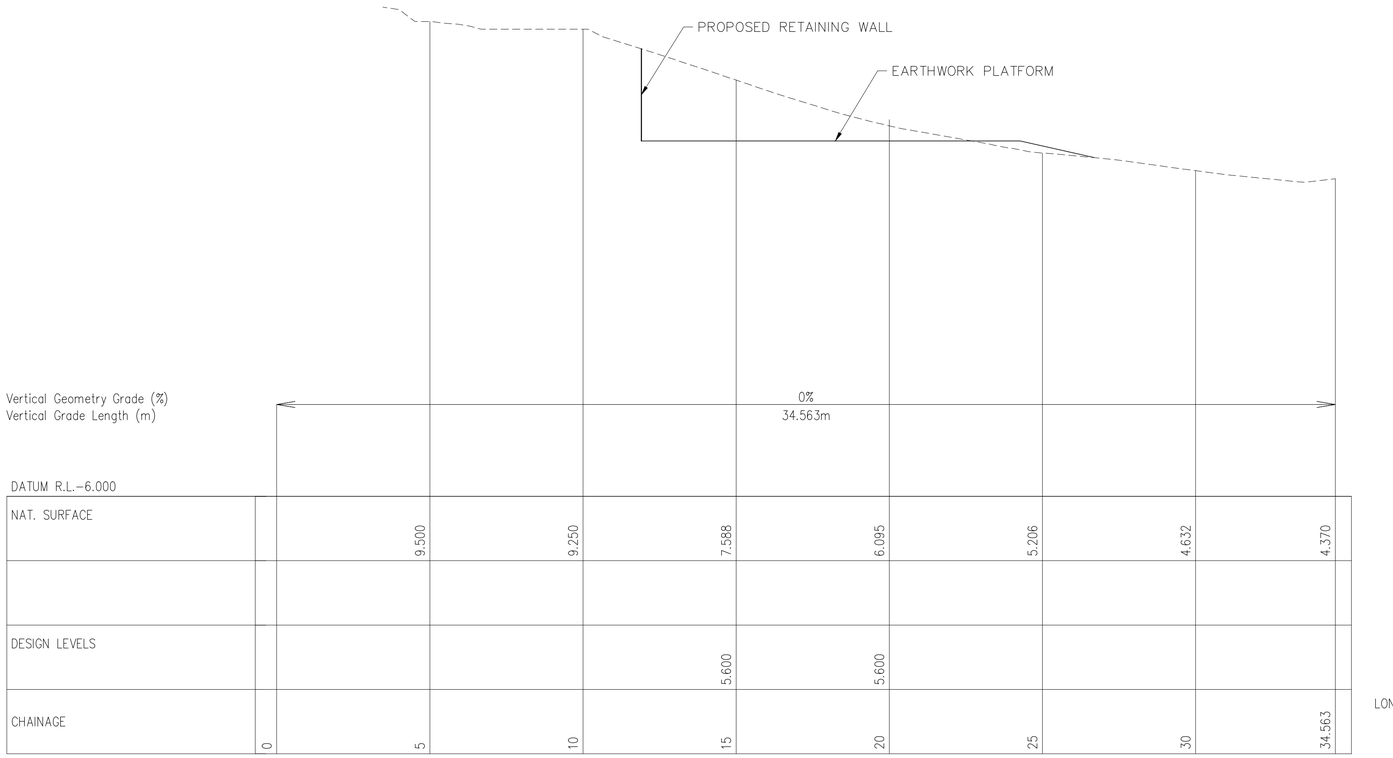
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LONGITUDINAL SECTION 1-GRID
HS 1:100 VS 1:100



LONGITUDINAL SECTION 2-GRID
HS 1:100 VS 1:100

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TITLE: GRID 1 & 2

JOB. NO: 22507209

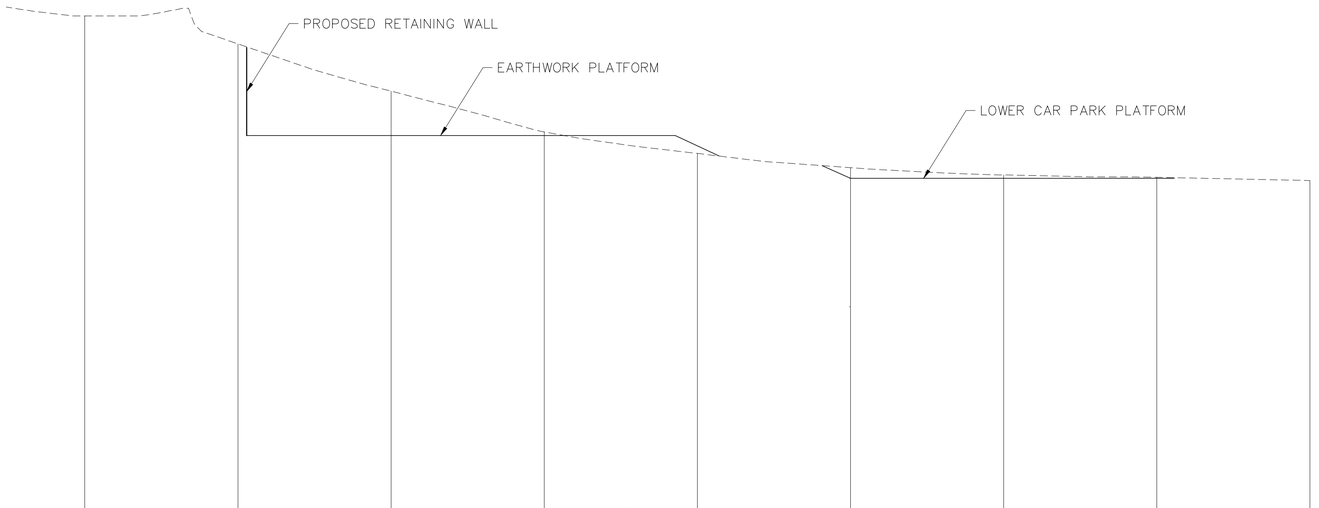
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NAT. SURFACE		9.500	8.590	7.048	5.716	5.014	4.549	4.313	4.234	4.129
DESIGN LEVELS				5.600	5.600		4.200	4.200	4.200	
CHAINAGE	0	5	10	15	20	25	30	35	40	44.999

LONGITUDINAL SECTION 3-GRID

HS 1:100 VS 1:100

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TITLE: GRID 3

JOB. NO: 22507209

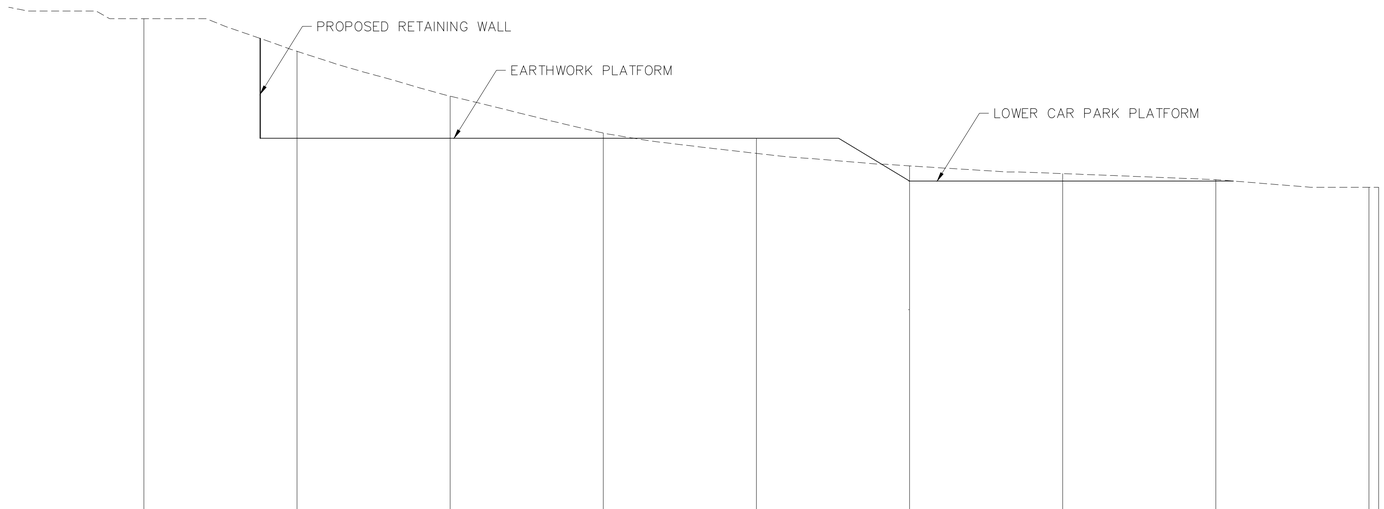
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LONGITUDINAL SECTION 4–GRID

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TITLE: GRID 4

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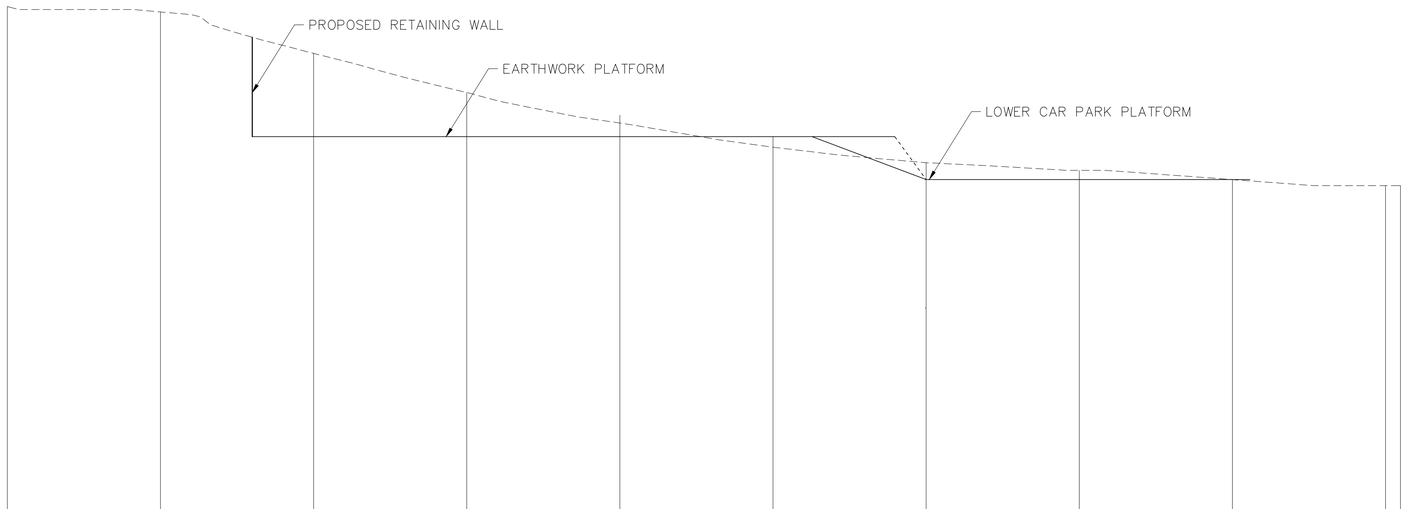
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LONGITUDINAL SECTION 5-GRID

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TITLE: GRID 5

JOB. NO: 22507209

REV. NO: 1

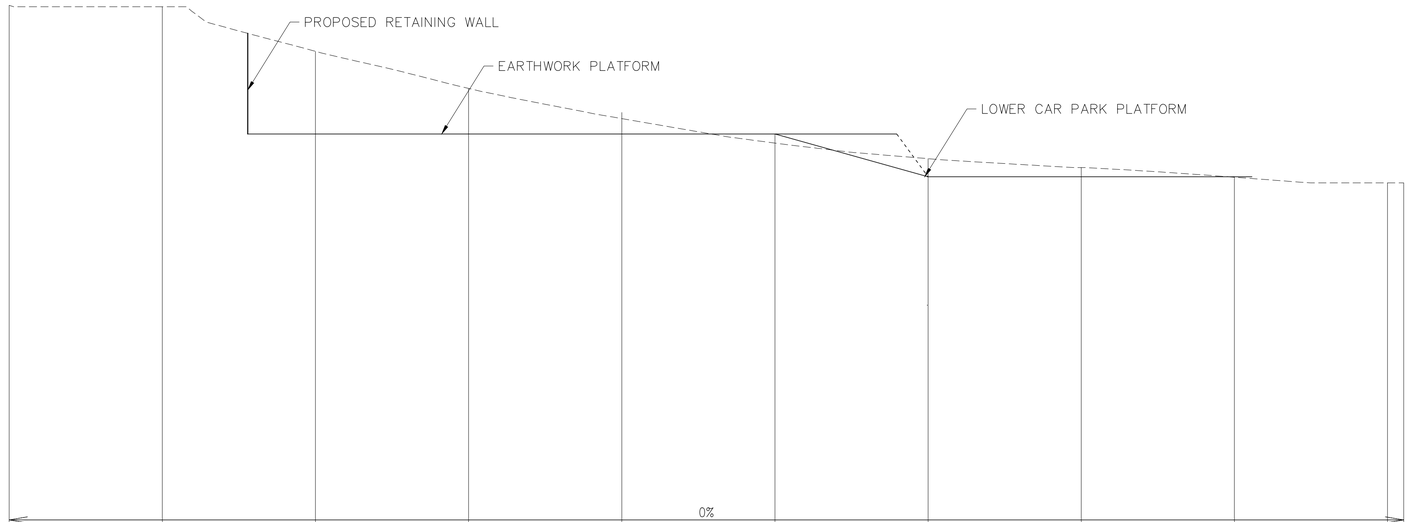
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0 10 20 30 40 50 60 70 80 90 100

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Vertical Geometry Grade (%)					0%							
Vertical Grade Length (m)					45.529m							
DATUM R.L.-10.000												
NAT. SURFACE	9.798	9.750	8.296	7.085	6.100	5.300	4.792	4.500	4.186	4.000	4.000	
DESIGN LEVELS			5.600	5.600	5.600	5.600	4.200	4.200	4.200			
CHAINAGE	0	5	10	15	20	25	30	35	40	45	45.529	

LONGITUDINAL SECTION 6-GRID

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2.0	FOR TENDER ISSUE	RC	NK	02.12.25
1.0	PRELIMINARY	-	-	04.08.25

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EMAIL: infor@nrwmacallan.com.fj

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RC	02.12.25

Scale: 1:1000@A1 1:2000@A3

PROJECT: Civil & Structural Design of MFMR Provincial Office Auki-Hauhui Rd Solomon Island

TITLE: GRID 6

JOB. NO: 22507209

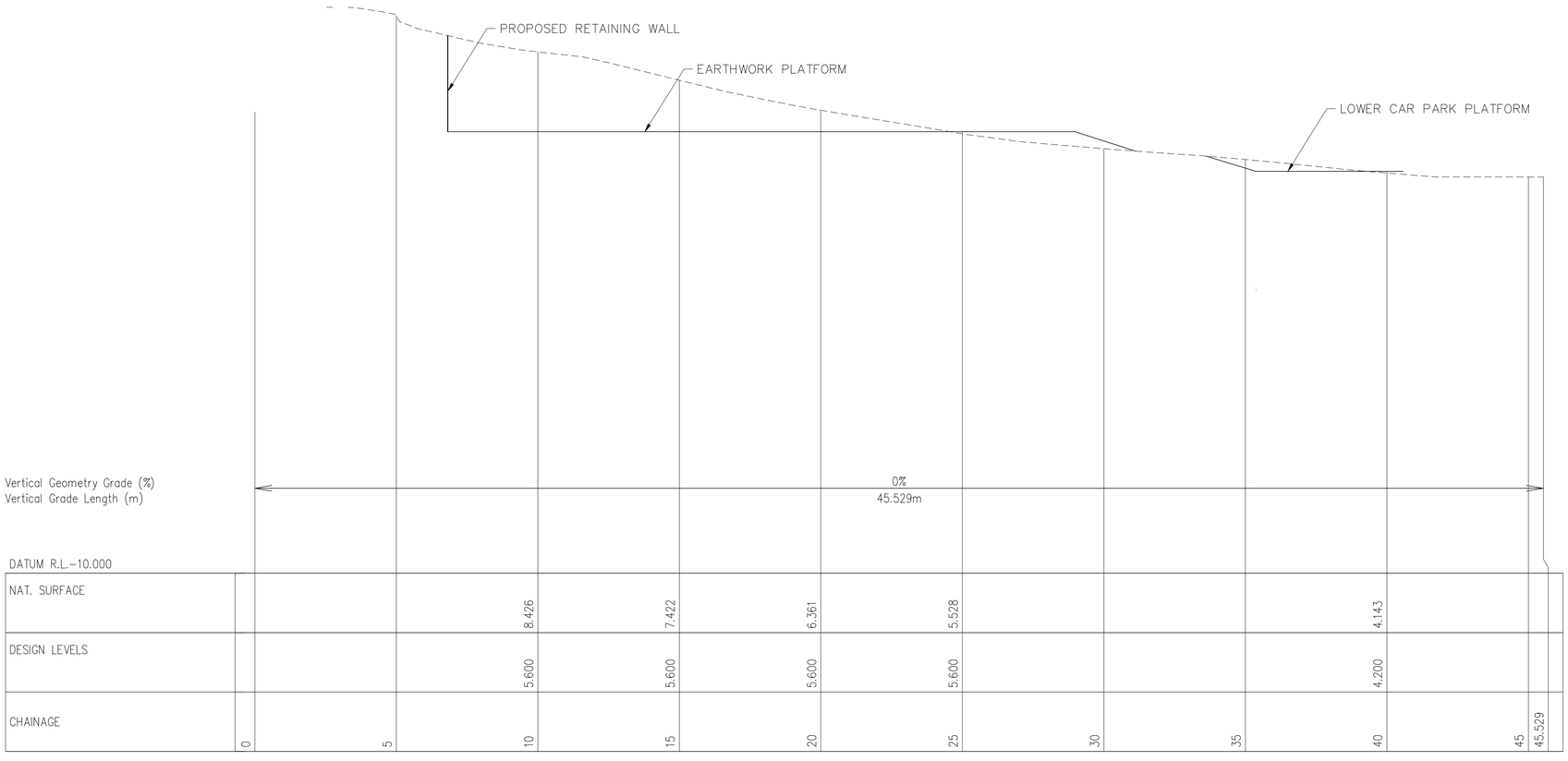
REV. NO: 1

DRAWING. NO: C105

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ORIGINAL SIZE A1

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LONGITUDINAL SECTION 7-GRID

HS 1:100 VS 1:100

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RC	02.12.25

Scale: 1:1000@A1 1:2000@A3

PROJECT: Civil & Structural Design of MFMR Provincial Office Auki-Hauhui Rd Solomon Island

TITLE: GRID 7

JOB. NO: 22507209

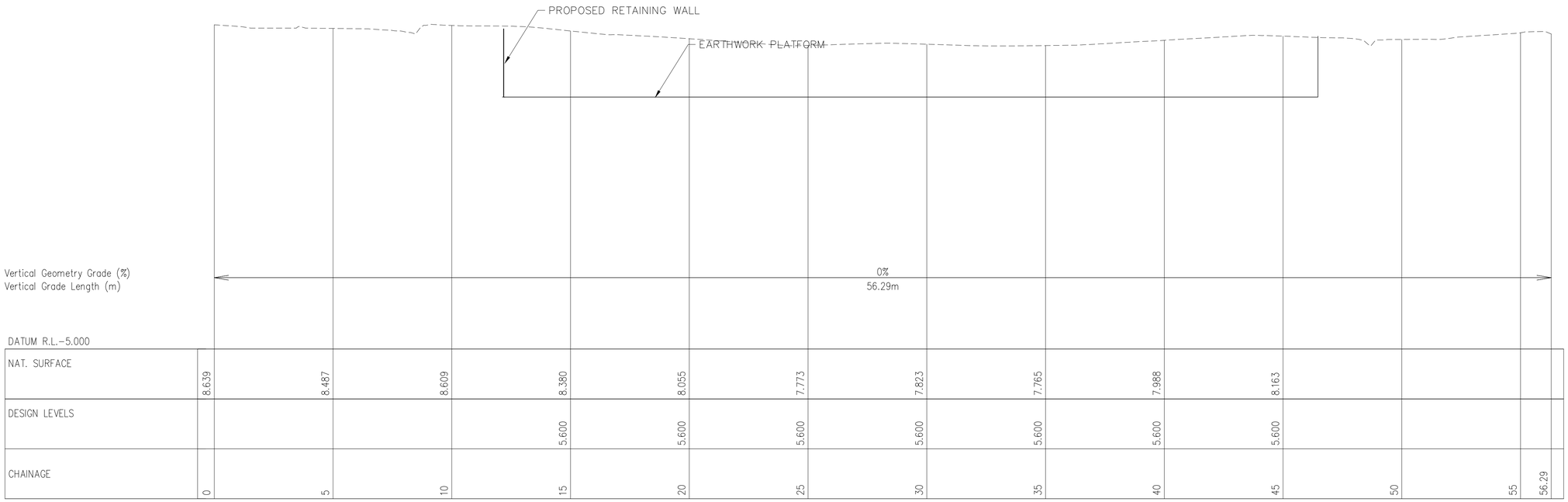
REV. NO: 1

DRAWING. NO: C106

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ORIGINAL SIZE A1

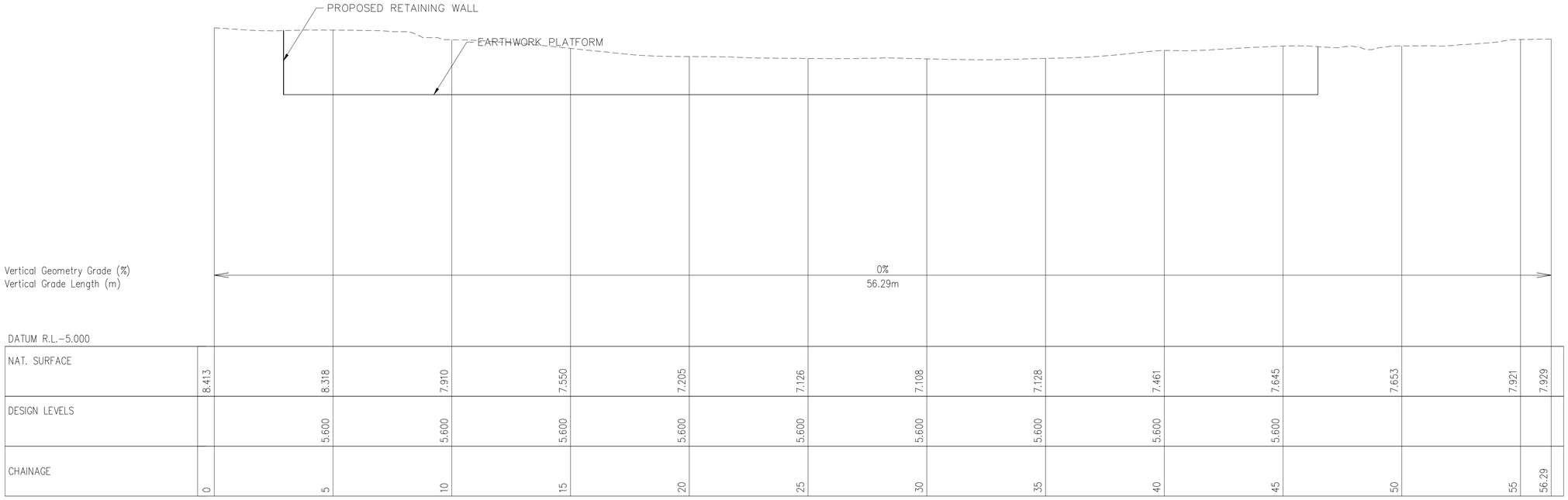
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NAT. SURFACE	8.639	8.487	8.609	8.380	8.055	7.773	7.823	7.765	7.988	8.163			
DESIGN LEVELS				5.600	5.600	5.600	5.600	5.600	5.600	5.600			
CHAINAGE	0	5	10	15	20	25	30	35	40	45	50	55	56.29

LONGITUDINAL SECTION A-GRID

HS 1:100 VS 1:100



NAT. SURFACE	8.413	8.318	7.910	7.550	7.205	7.126	7.108	7.128	7.461	7.645	7.653	7.921	7.929
DESIGN LEVELS		5.600	5.600	5.600	5.600	5.600	5.600	5.600	5.600	5.600			
CHAINAGE	0	5	10	15	20	25	30	35	40	45	50	55	56.29

LONGITUDINAL SECTION B-GRID

HS 1:100 VS 1:100

FOR TENDER

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RC	02.12.25

Scale: 1:1000@A1 1:2000@A3

PROJECT: Civil & Structural Design of MFMR Provincial Office Auki-Hauhui Rd Solomon Island

TITLE: GRID LINE A & B

JOB. NO: 22507209

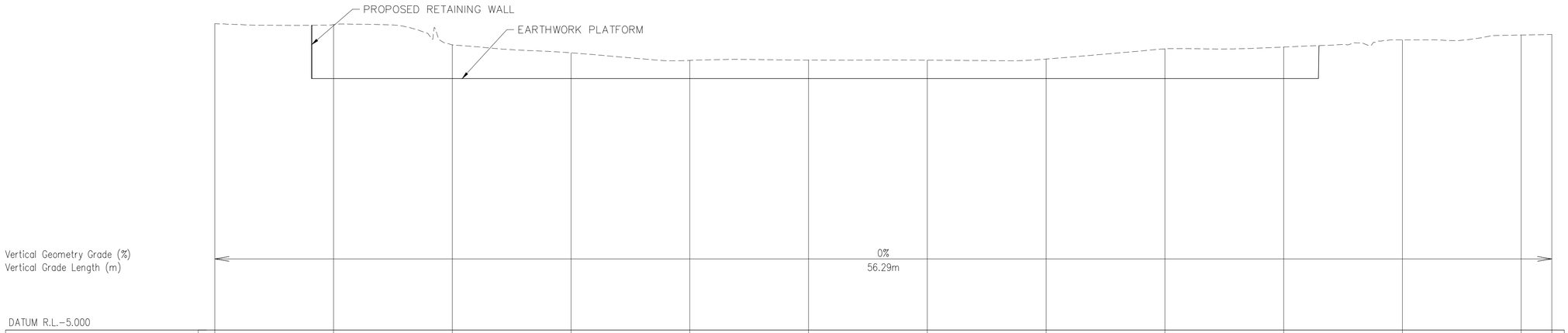
REV. NO: 1

DRAWING. NO: C107

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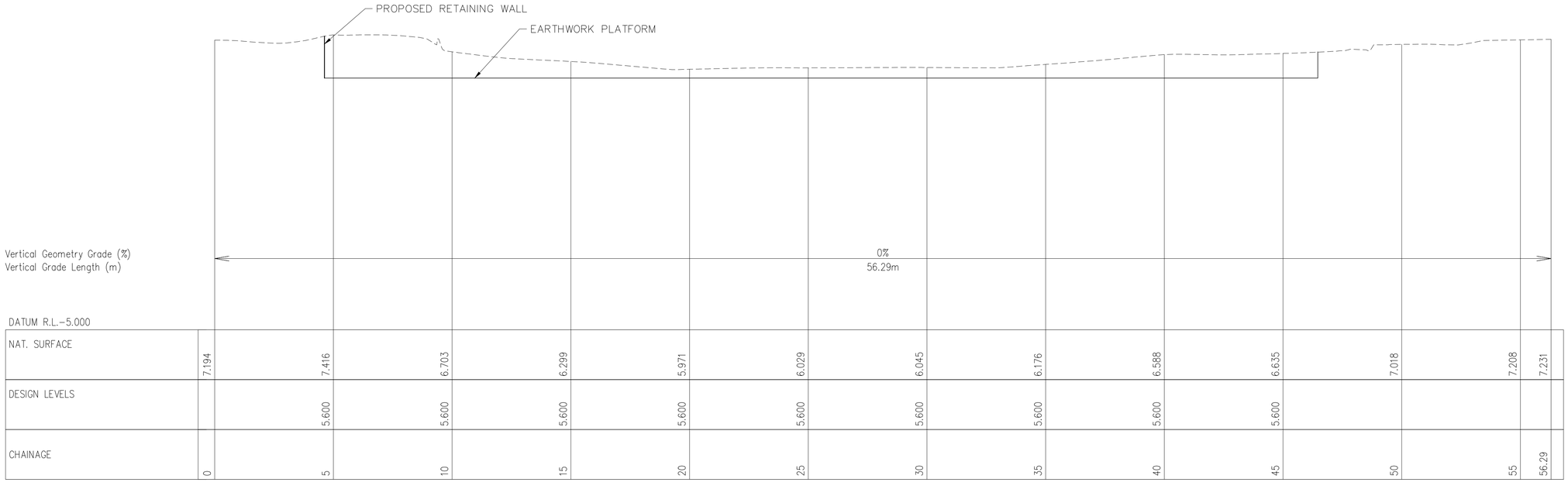
ORIGINAL SIZE A1

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LONGITUDINAL SECTION C-GRID

HS 1:100 VS 1:100



LONGITUDINAL SECTION D-GRID

HS 1:100 VS 1:100

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1:1000@A1 1:2000@A3	

PROJECT: Civil & Structural Design of MFMR Provincial Office Auki-Hauhui Rd Solomon Island

TITLE: GRID LINE C & D

JOB. NO: 22507209

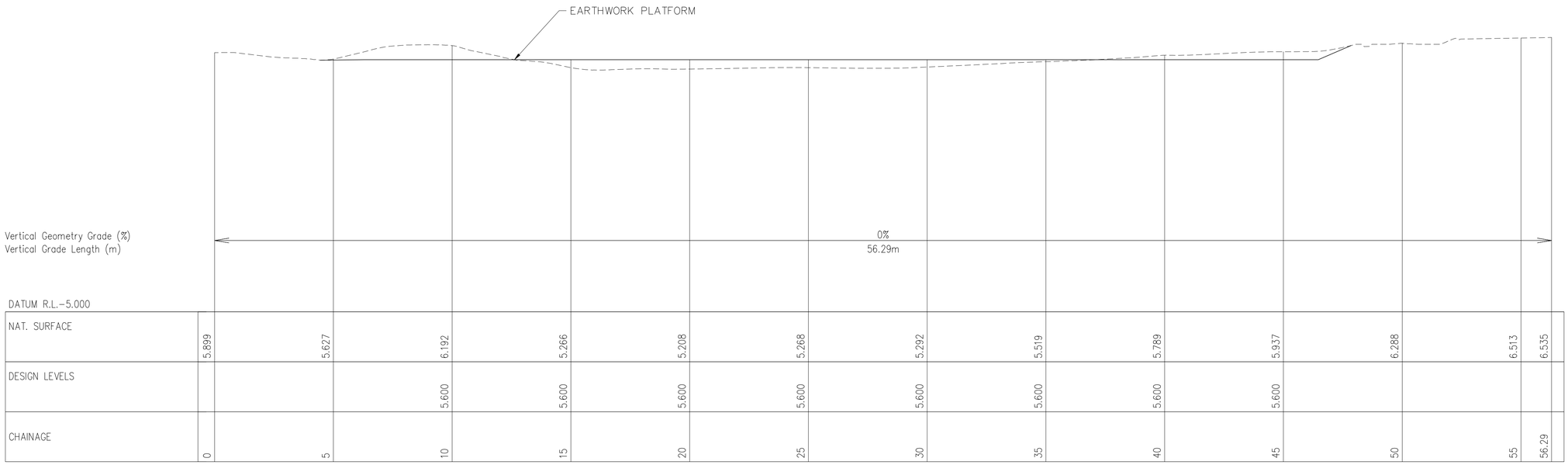
REV. NO: 1

DRAWING. NO: C108

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ORIGINAL SIZE A1

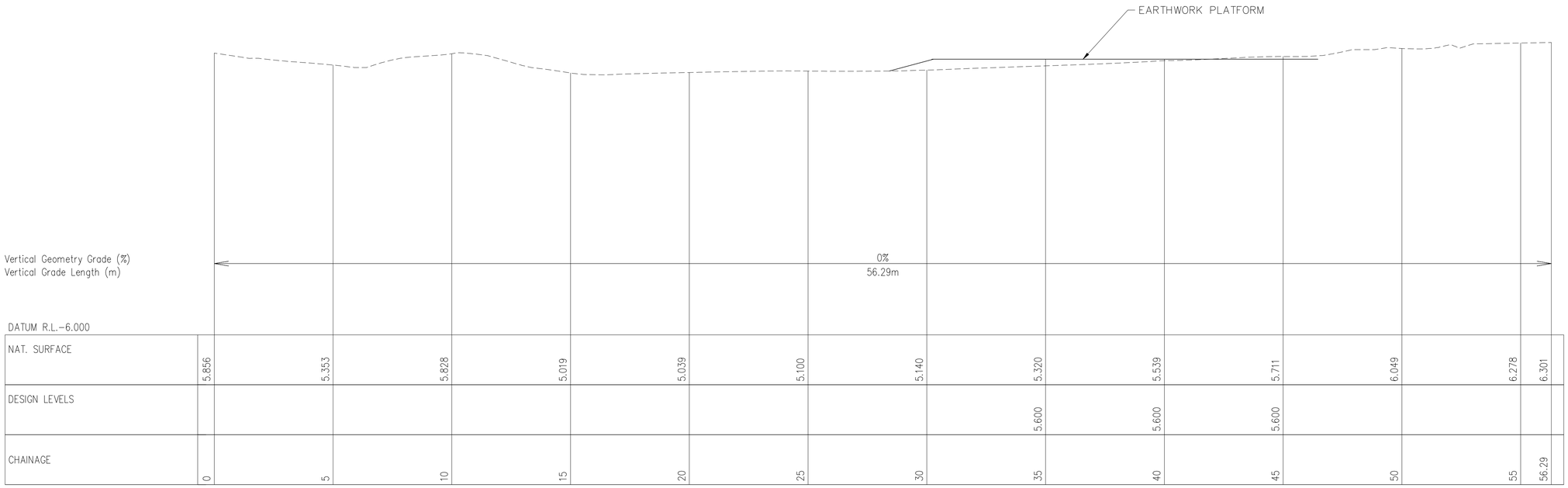
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NAT. SURFACE	5.899	5.627	6.192	5.266	5.208	5.268	5.292	5.519	5.789	5.937	6.288	6.513	6.535
DESIGN LEVELS			5.600	5.600	5.600	5.600	5.600	5.600	5.600	5.600			
CHAINAGE	0	5	10	15	20	25	30	35	40	45	50	55	56.29

LONGITUDINAL SECTION E-GRID

HS 1:100 VS 1:100



NAT. SURFACE	5.856	5.353	5.828	5.019	5.039	5.100	5.140	5.320	5.539	5.711	6.049	6.278	6.301
DESIGN LEVELS								5.600	5.600	5.600			
CHAINAGE	0	5	10	15	20	25	30	35	40	45	50	55	56.29

LONGITUDINAL SECTION F-GRID

HS 1:100 VS 1:100

FOR TENDER

ISSUE	DESCRIPTION	CHECKED	APPROVED	DATE
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Scale: 1:1000@A1 1:2000@A3

PROJECT: Civil & Structural Design of MFMR Provincial Office Auki-Hauhui Rd Solomon Island

TITLE: GRID LINE E & F

JOB. NO: 22507209

REV. NO: 1

DRAWING. NO: C109

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ORIGINAL SIZE A1

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EARTHWORK PLATFORM

Vertical Geometry Grade (%)
Vertical Grade Length (m)

0%
56.29m

DATUM R.L.–6.000

NAT. SURFACE		5.288	5.150	4.828	4.791	4.877	4.938	5.073	5.295	5.408	5.746	5.943	5.965
DESIGN LEVELS								5.600	5.600	5.600			
CHAINAGE	0	5	10	15	20	25	30	35	40	45	50	55	56.29

LONGITUDINAL SECTION G–GRID

HS 1:100 VS 1:100

EARTHWORK PLATFORM

Vertical Geometry Grade (%)
Vertical Grade Length (m)

0%
56.29m

DATUM R.L.–10.000

NAT. SURFACE		5.284	4.782	4.742	4.587	4.654	4.745	4.828	5.006	5.150	5.408	5.524	5.546
DESIGN LEVELS								5.600	5.600	5.600			
CHAINAGE	0	5	10	15	20	25	30	35	40	45	50	55	56.29

LONGITUDINAL SECTION H–GRID

HS 1:100 VS 1:100

FOR TENDER

DO NOT SCALE - IF IN DOUBT, ASK

ORIGINAL SIZE A1

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RC	02.12.25

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PROJECT: Civil & Structural Design of MFMR Provincial Office Auki-Hauhui Rd Solomon Island

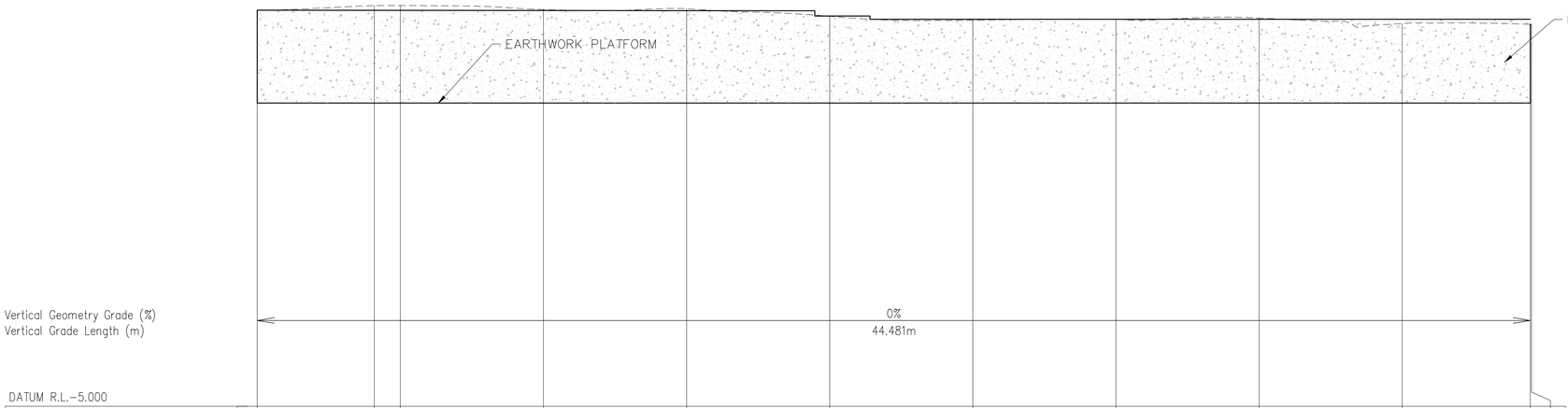
TITLE: GRID LINE G & H

JOB. NO: 22507209

REV. NO: 1

DRAWING. NO: C110

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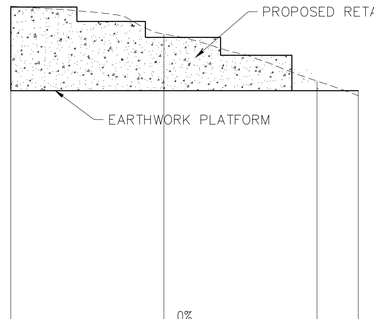


Vertical Geometry Grade (%) 0%
Vertical Grade Length (m) 44.481m

DATUM R.L.-5.000

NAT. SURFACE ON		9.010	9.010	8.872	8.899	8.636	8.500	8.531	8.574	8.382	8.360	8.359
CUT / FILL DEPTH		3.410	3.410	3.272	3.299	3.036	2.900	2.931	2.974	2.782	2.760	
DESIGN LEVELS ON	5.600	5.600	5.600	5.600	5.600	5.600	5.600	5.600	5.600	5.600	5.600	
CHAINAGE	-0	4.087	5	10	15	20	25	30	35	40	44.481	44.524

LONGITUDINAL SECTION RW1
HS 1:100 VS 1:100



Vertical Geometry Grade (%) 0%
Vertical Grade Length (m) 11.344m

DATUM R.L.-5.000

NAT. SURFACE ON	8.360	7.445	5.913	5.434	
CUT / FILL DEPTH	2.760	1.845	0.313	-0.166	
DESIGN LEVELS ON	5.600	5.600	5.600	5.600	
CHAINAGE	0	5	10	11.344	

LONGITUDINAL SECTION RW2
HS 1:100 VS 1:100

FOR TENDER

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ORIGINAL SIZE A1

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PROJECT: Civil & Structural Design of MFMR Provincial Office Auki-Hauhui Rd Solomon Island

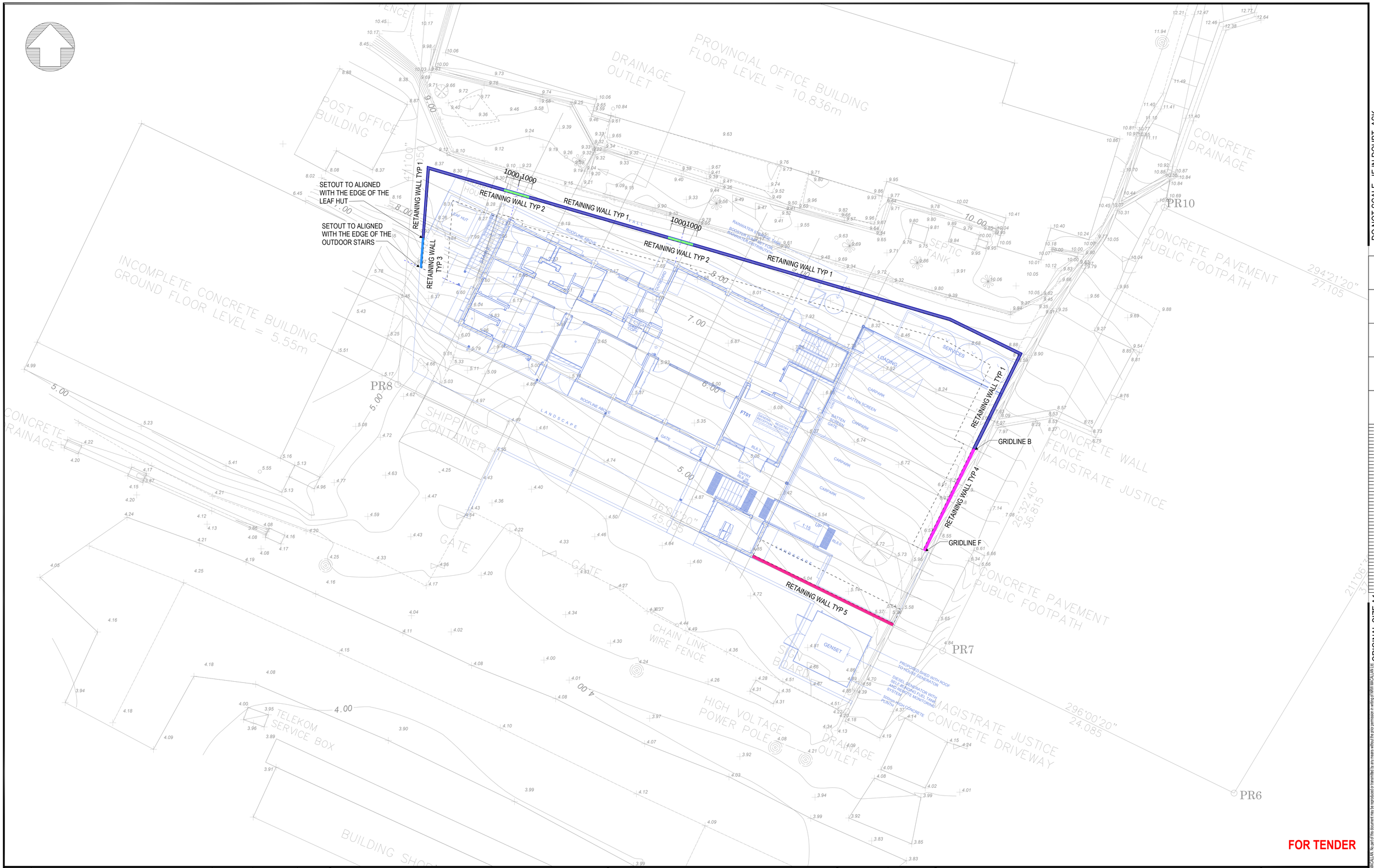
TITLE: SECTION ALONG RETAINING WALL 1 & 2

JOB. NO: 22507209

REV. NO: 1

DRAWING. NO: C111

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RC	02.12.25

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PROJECT: Civil & Structural Design of MFMR Provincial Office Auki-Hauhui Rd Solomon Island

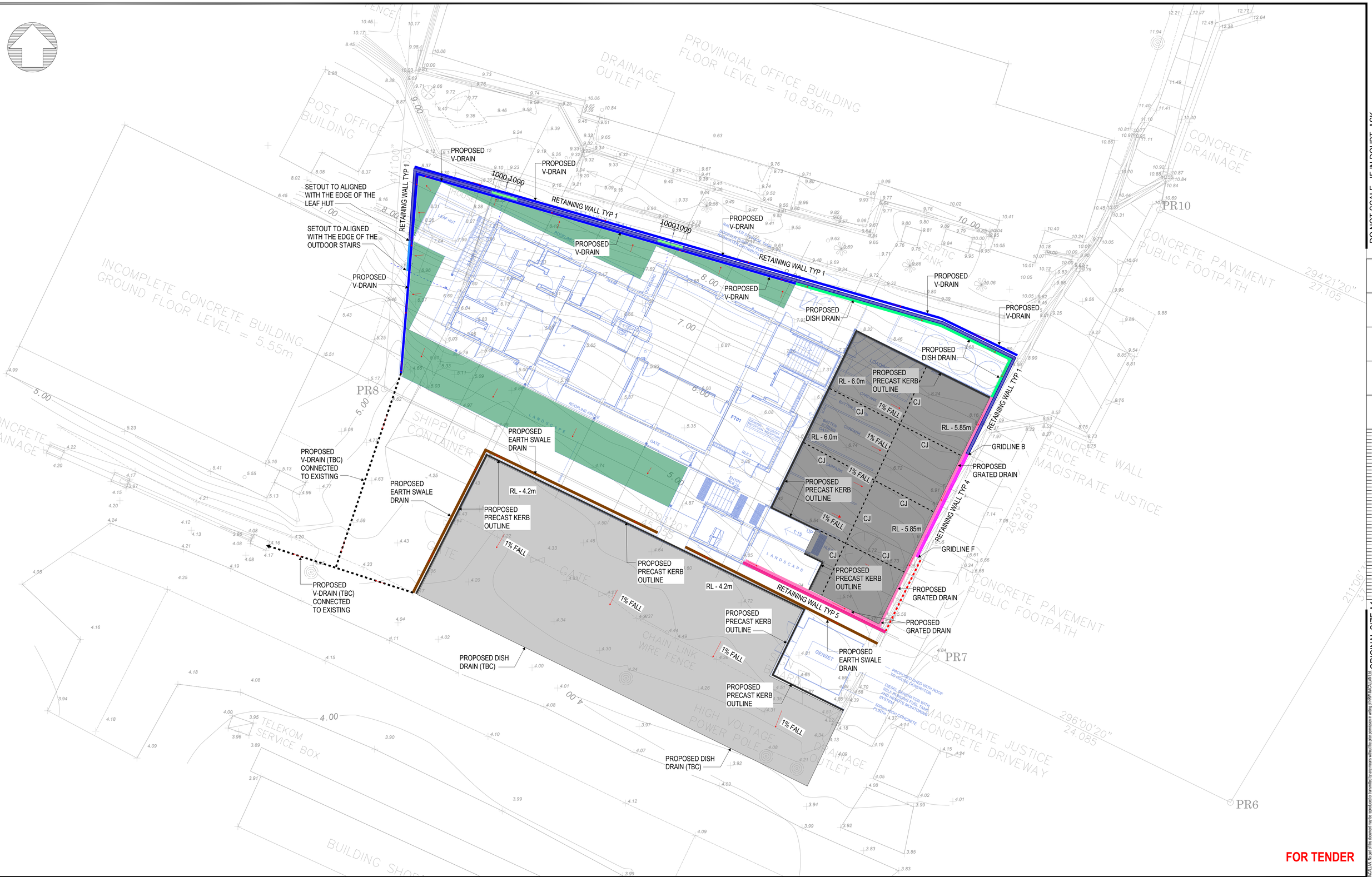
TITLE: RETAINING WALL LAYOUT

JOB. NO: 22507209

REV. NO: 1

DRAWING. NO: C112

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PROJECT: Civil & Structural Design of MFMR Provincial Office Auki-Hauhui Rd Solomon Island

TITLE: DRAINAGE LAYOUT

JOB. NO: 22507209

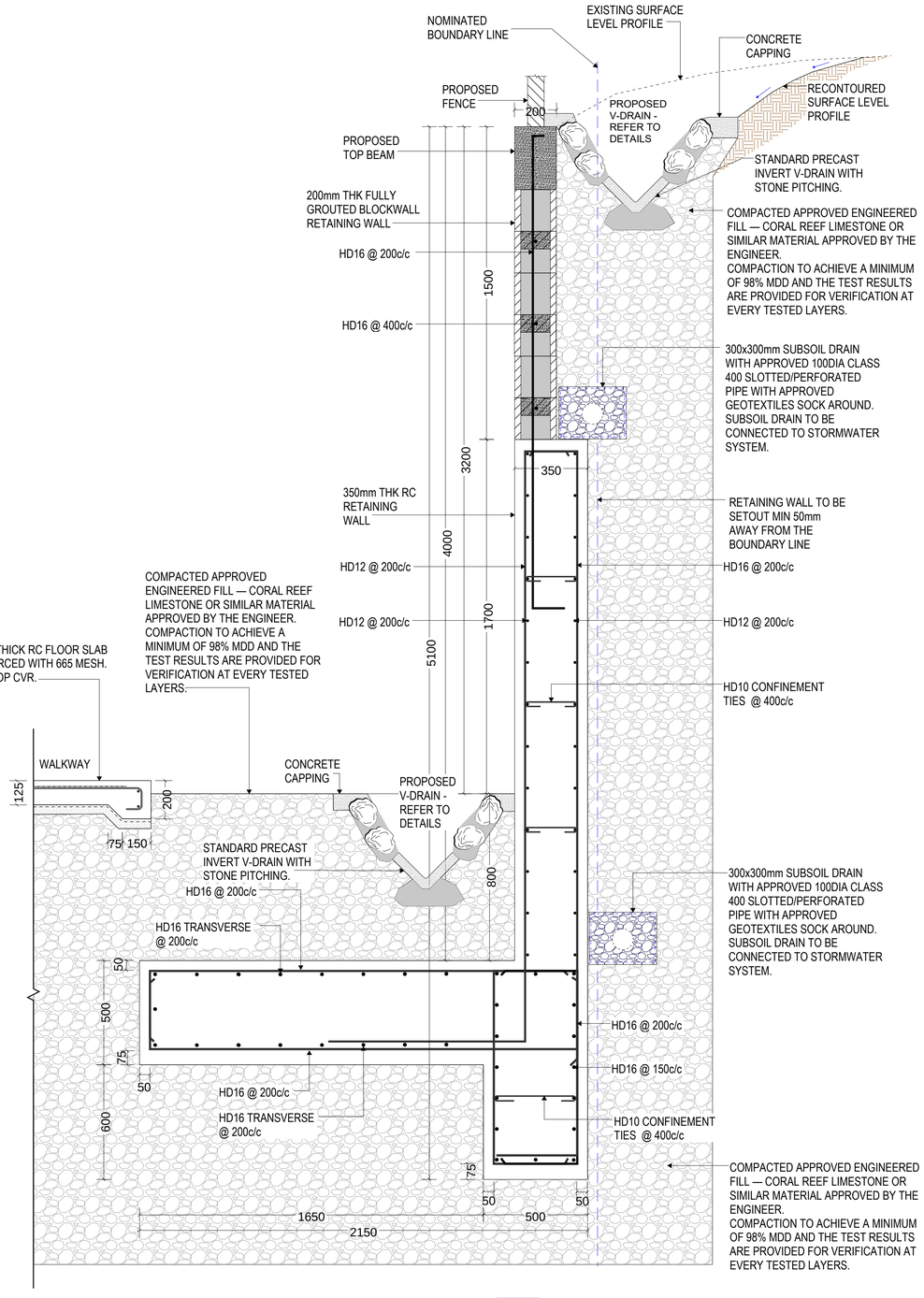
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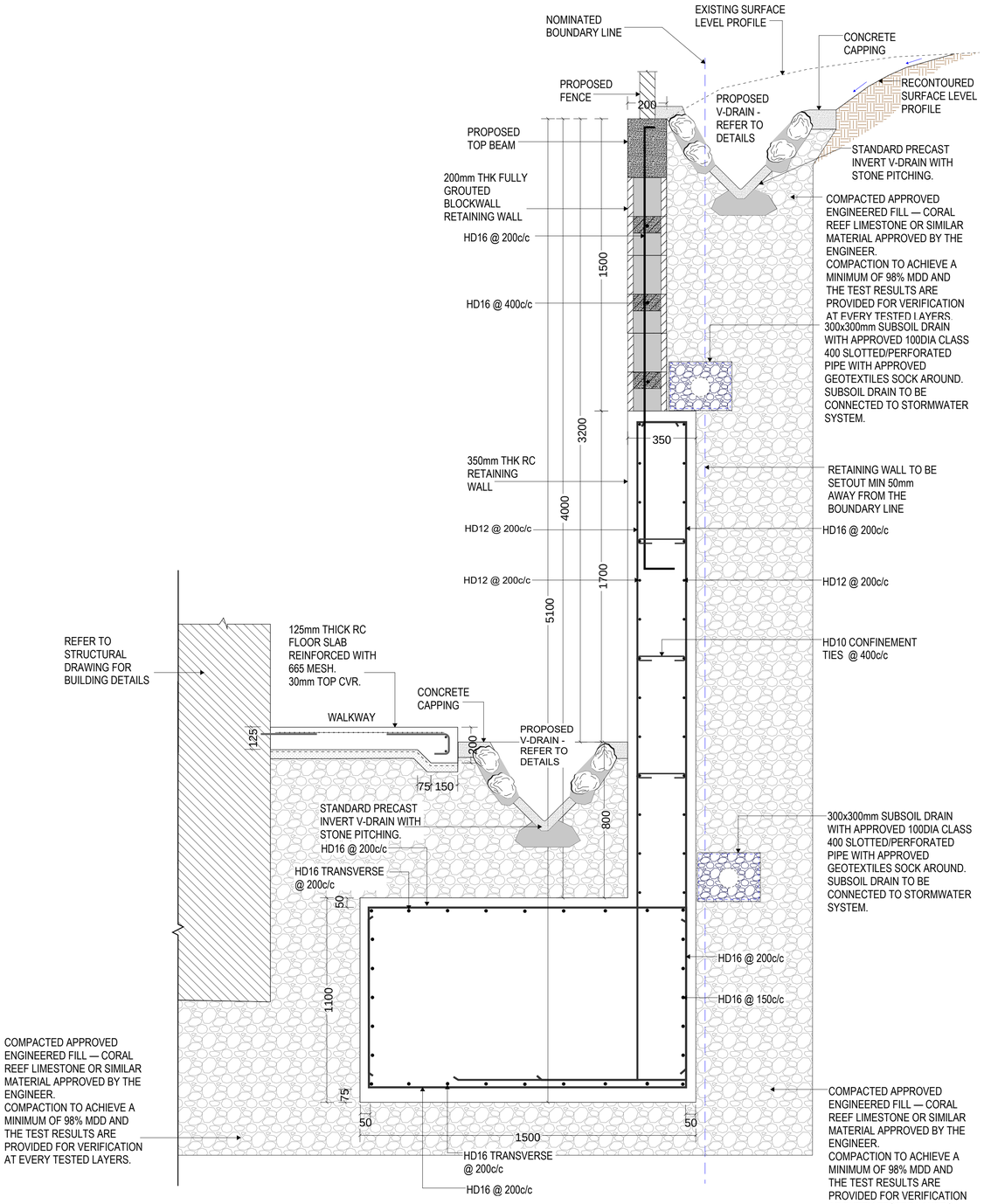
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1 C112 RETAINING WALL SECTION TYP. 1
SCALE 1: 15



2 C112 RETAINING WALL SECTION TYP. 2
SCALE 1: 15

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PROJECT: Civil & Structural Design of MFMR Provincial Office Auki-Hauhui Rd Solomon Island

TITLE: RETAINING WALL SECTION & DETAIL

JOB. NO: 22507209

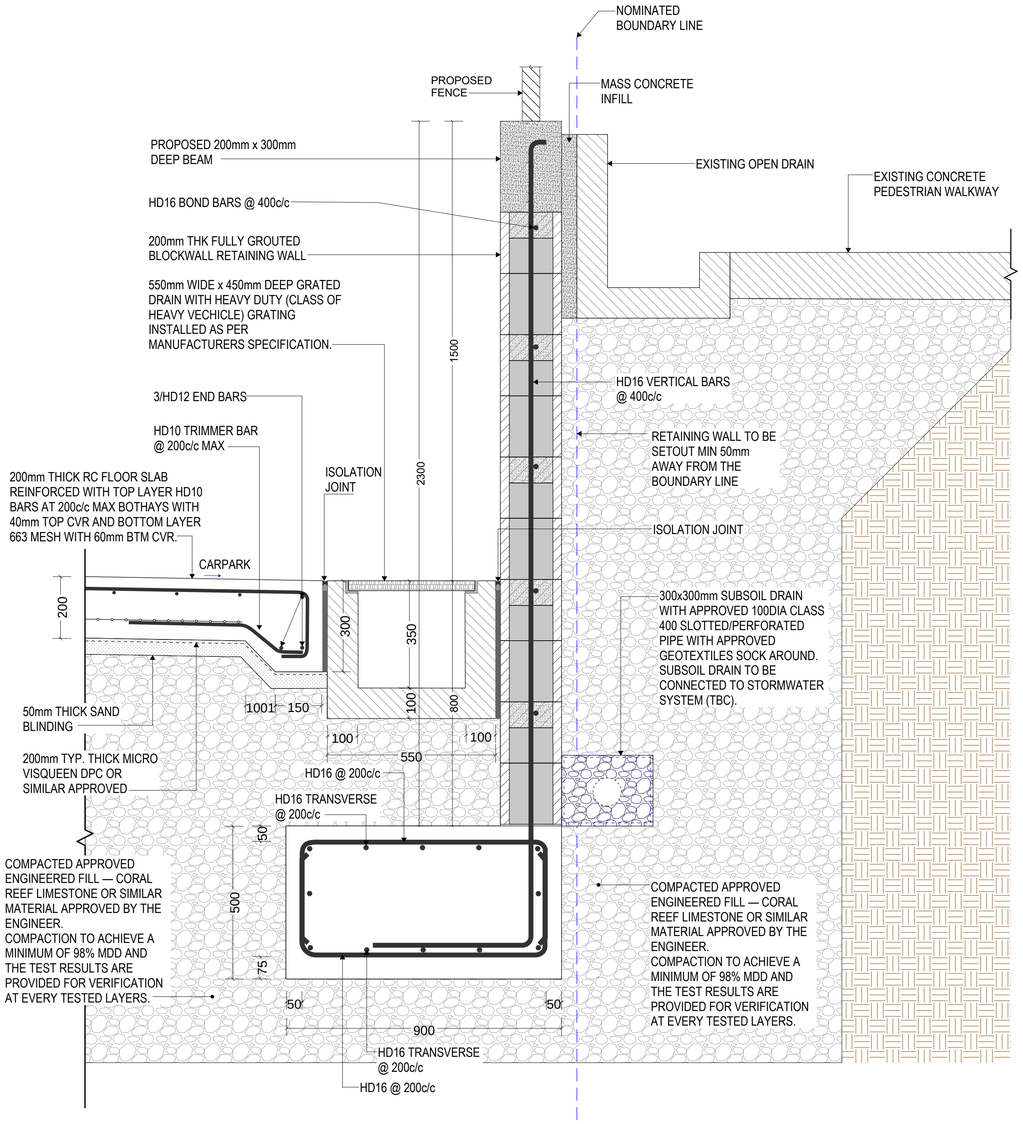
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DRAWING. NO: C114

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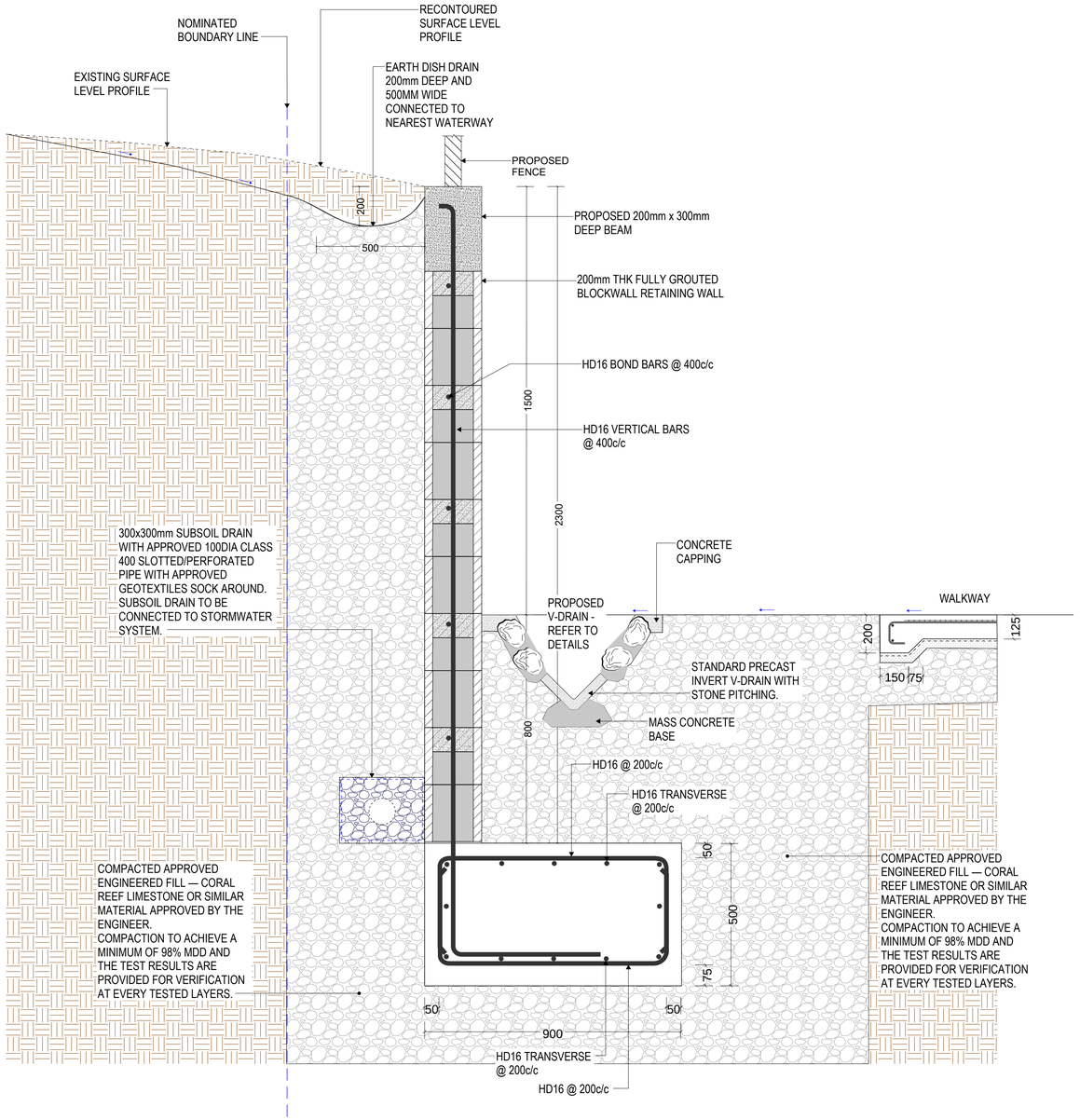
ORIGINAL SIZE A1

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1 C112 RETAINING WALL SECTION TYP. 4

SCALE 1: 15



2 C112 RETAINING WALL SECTION TYP. 3

SCALE 1: 15

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PROJECT: Civil & Structural Design of MFMR Provincial Office Auki-Hauhui Rd Solomon Island

TITLE: RETAINING WALL SECTION & DETAIL

JOB. NO: 22507209

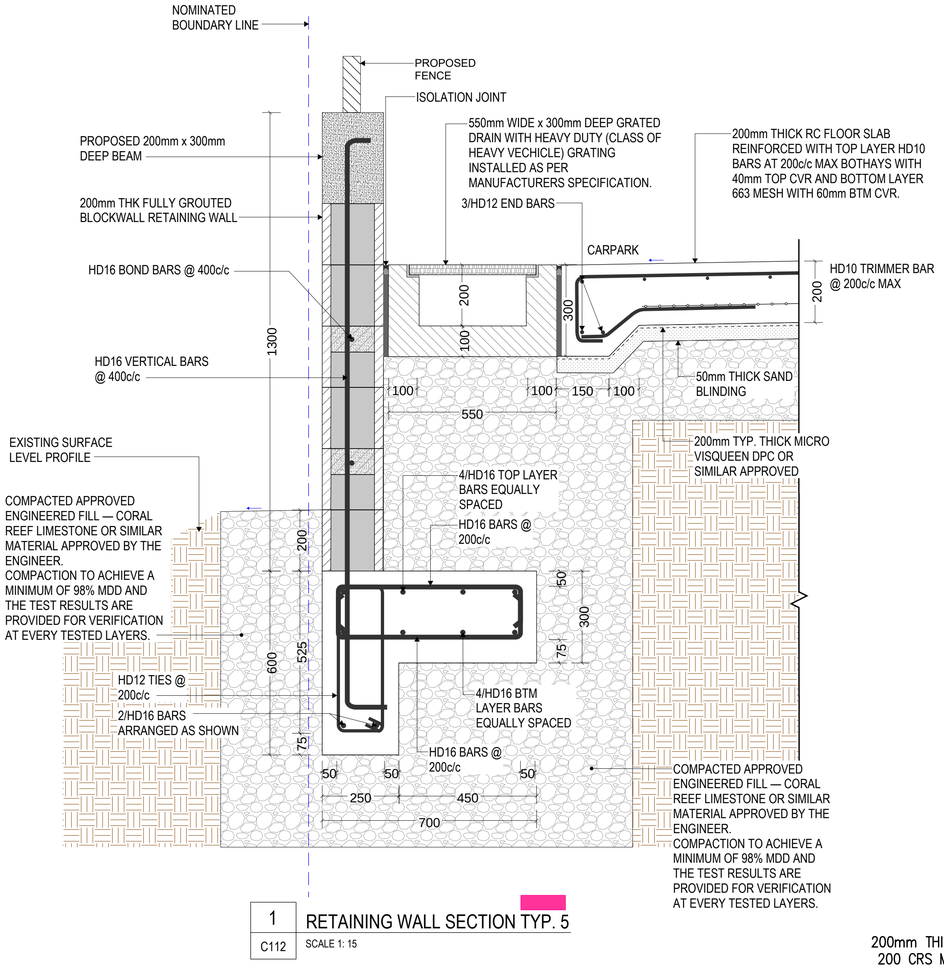
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DRAWING. NO: C115

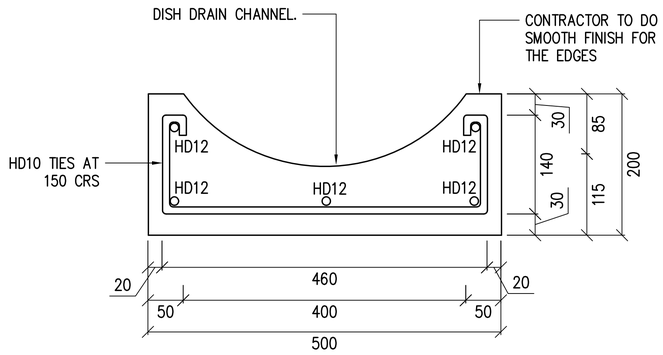
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ORIGINAL SIZE A1

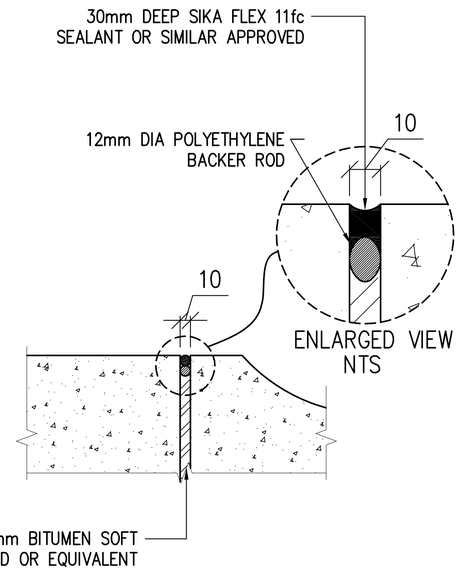
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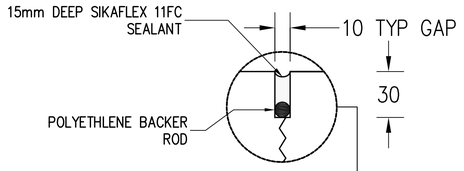
1 C112 RETAINING WALL SECTION TYP. 5
SCALE 1: 15



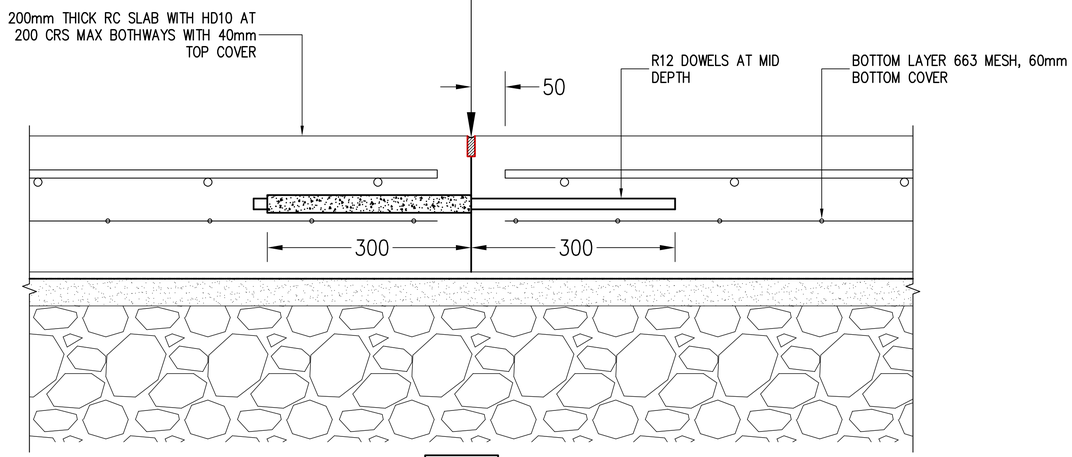
2 - DISH DRAIN TYPICAL DETAIL
SCALE 1: 5



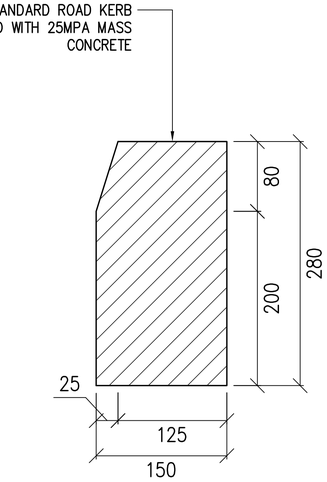
4 - ISOLATION JOINT TYPICAL DETAIL
SCALE 1: 5



NOTE:
SAW CUT JOINT TO BE PROVIDED WITHIN 24 HOURS OF CONCRETE POUR



3 - CJ TYPICAL DETAIL
SCALE 1: 5



5 - PRECAST KERB TYPICAL DETAIL
SCALE 1: 5

FOR TENDER

ISSUE	DESCRIPTION	CHECKED	APPROVED	DATE
2.0	FOR TENDER ISSUE	RC	NK	02.12.25
1.0	PRELIMINARY	-	-	04.08.25

Client:

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12D /CAD Drafter:	Designed:
FT	RC
Checked:	Date:
RC	02.12.25

Scale: 1:1000@A1 1:2000@A3

PROJECT: Civil & Structural Design of MFMR Provincial Office Auki-Hauhui Rd Solomon Island

TITLE: RETAINING WALL SECTION & DETAIL

JOB. NO: 22507209

REV. NO: 1

DRAWING. NO: C116

DO NOT SCALE - IF IN DOUBT, ASK

ORIGINAL SIZE A1

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