

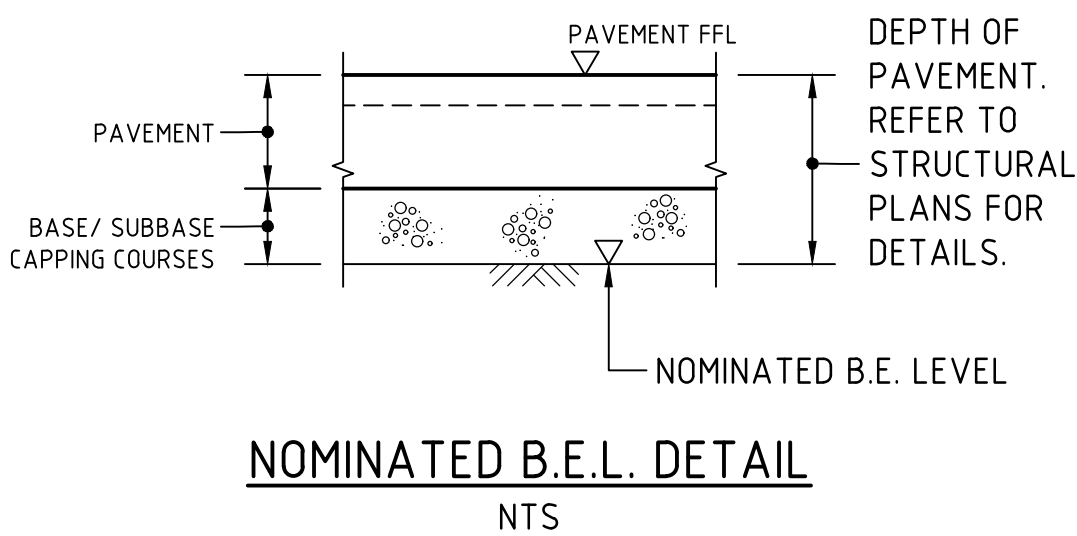
APPENDIX B
COSTIN ROE CONSULTING
RELEVANT CIVIL ENGINEERING DRAWINGS

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY LANDPARTNERS DATED 17/09/21.

- 50.00 - EXISTING CONTOUR (0.2m INTERVAL)
- 50.00 - B.E.L. CONTOUR (MAJOR 0.5m)
- 50.10 - B.E.L. CONTOUR (MINOR 0.1m)
- 50.00 - B.E.L. SPOT LEVEL
- FLOOD CONVEYANCE AREA
- EXISTING FLOOR SLAB TO REMAIN



APPROX. AREA OF CUTTING WORKS TO BE MINIMISED TO PREVENT UNDERMINING OF EXISTING LEVEE WALL. FILL AS NECESSARY TO DIRECT WATER TOWARDS OPEN DRAIN.

ALLOWANCES FOR STRUCTURE

	DEPTH OF PAVEMENT
INTERNAL WAREHOUSE	160mm+100mm DGB
EXTERNAL HARDSTAND	280mm
LANDSCAPING	100mm
FLOOD CONVEYANCE AREA	110mm

EXISTING SERVICES NOTE:

CONTRACTOR TO ALLOW FOR ALL EXISTING SERVICES TO BE MADE REDUNDANT. CONTRACTOR TO REMOVE & BACKFILL ALL REDUNDANT SERVICES OR REDUNDANT SERVICE PITS AND PIPES/CONDUITS ARE TO BE GROUT-FILLED.

EXISTING PAVEMENT SLAB NOTE:

WHERE FILLING EXCEEDS 1.0m, THE CONTRACTOR MAY KEEP THE EXISTING SLAB IN PLACE. CONTRACTOR TO PROVIDE #100mm CORE HOLE AT 2.0m GRID THROUGHOUT EXISTING SLAB TO REMAIN IN PLACE.

SITE PREPARATION NOTES:

- ALL EARTHWORKS SHALL BE COMPLETED GENERALLY IN ACCORDANCE WITH THE GUIDELINES SPECIFIED BY THE GEOTECHNICAL SPECIFICATIONS PSM4771-1035 REV 1 AND THE GEOTECHNICAL REPORT PSM4771-106R BOTH PROVIDED BY PSM CONSULT DATED 23 OCTOBER 2023, UNDER LEVEL 1 SUPERVISION.
- EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY075388.000.5.2 DATED 17/09/2021.
- STRIP ANY TOP SOIL OR DELETERIOUS MATERIAL AND DISPOSE OF FROM SITE OR STORE AS DIRECTED.
- COMPLETE CUT TO FILL EARTHWORKS TO ACHIEVE THE REQUIRED LEVELS AS INDICATED ON THE DRAWINGS WITH A TOLERANCE OF +0mm/-10mm THROUGH BUILDING PADS/PAVEMENTS AND +0mm/-20mm ELSEWHERE.
- PREPARE STEEP BATTERS TO RECEIVE FILL BY CONSTRUCTING BENCHING TO FACILITATE FILL PLACEMENT AND COMPACTION.
- AREAS TO RECEIVE FILL (THAT ARE NOT ON BENCHMARKED BATTERS) AND AREAS IN CUT SHALL BE PROOF ROLLED TO IDENTIFY ANY SOFT HEAVING MATERIAL. SOFT MATERIAL SHALL BE BOXED OUT AND REMOVED PRIOR TO FILL PLACEMENT. PROOF ROLLING TO BE INSPECTED BY A GEOTECHNICAL ENGINEER OR THE EARTHWORKS DESIGNER.
- SITE WON FILL SHALL BE COMPACTED IN MAXIMUM 300mm LAYERS AND TO DRY OR HLF DENSITY RATIOS (STANDARD COMPACTION) OF BETWEEN 98% AND 103%. THE PLACEMENT MOISTURE VARIATION OR HLF MOISTURE VARIATION SHALL BE CONTROLLED TO BE BETWEEN 2% DRY AND 2% WET.
- IMPORTED FILL SHALL BE COMPACTED IN MAXIMUM 300mm LAYERS AND TO DRY OR HLF DENSITY RATIOS (STANDARD COMPACTION) OF BETWEEN 98% AND 103%. THE PLACEMENT MOISTURE VARIATION OR HLF MOISTURE VARIATION SHALL BE CONTROLLED TO BE BETWEEN 2% DRY AND 2% WET.
- ALL ENGINEERED FILL PARTICLES SHALL BE ABLE TO BE INCORPORATED WITHIN A SINGLE LAYER. FURTHER, LESS THAN 30% OF PARTICLES SHALL BE RETAINED ON THE 37.5 mm SIEVE. ENGINEERED FILL SHALL BE ABLE TO BE TESTED IN ACCORDANCE WITH THE STANDARD COMPACTION METHOD (AS1289.5.4.1) OR HLF TEST METHOD (AS1289.5.7.1). THESE METHODS REQUIRE LESS THAN 20% RETAINED ON THE 37.5 mm SIEVE. WHERE BETWEEN 20% AND 30% OF PARTICLES ARE RETAINED ON THE 37.5 mm SIEVE THE ABOVE TEST METHODS SHALL STILL BE ADOPTED AND TEST REPORTS ANNOTATED APPROPRIATELY. THESE REQUIREMENTS SHOULD BE MET BY THE MATERIAL AFTER PLACEMENT AND COMPACTION.
- ALL THE EARTHWORKS UNDERTAKEN AND THE SUBGRADE CONDITION IN THE CUT AREAS (IN THE STATED PERIOD) ARE DOCUMENTED IN THE REPORTS AND HAVE BEEN UNDERTAKEN IN ACCORDANCE WITH THE SPECIFICATION.
- PRIOR TO ANY EARTHWORKS, EROSION CONTROL AS OUTLINED IN THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE COMPLETED.
- EXISTING ROCK, IF ANY, SHALL BE REMOVED BY HEAVY ROCK BREAKING OR RIPPING.
- MATCH EXISTING LEVELS AT BATTER INTERFACE.
- CONTRACTOR TO MATCH EXISTING LEVELS AT THE INTERFACE OF EARTHWORKS AND EXISTING SURFACE AT BATTER LOCATIONS OR WHERE NO RETAINING WALLS ARE PRESENT. ANY DISCREPANCY BETWEEN DESIGN AND EXISTING LEVELS TO BE REFERRED TO THE ENGINEER FOR DIRECTION OR ADJUSTMENTS TO DESIGN LEVELS.
- DURING EARTHWORKS THE CONTRACTOR IS TO ENSURE ALL AREAS ARE FREE DRAINING & WILL NOT RETAIN WATER DURING RAINFALL. PROVIDE TEMPORARY MEASURES AS REQUIRED TO ENSURE FREE FLOWING RUNOFF THROUGH MANAGED DRAINAGE PATHS, DIVERSION DRAINS OR OTHER SUITABLE DISPOSAL METHOD AS AGREED DURING THE WORKS. REFER ANY CONCERNS TO THE ENGINEER. REFER TO EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES.

NOTE:

REFERENCE SHOULD BE MADE TO SECTION 7.3 OF THE GEOTECHNICAL REPORT REFERENCED PSM4771-106R FOR CONSIDERATIONS AROUND THE RETENTION OF EXISTING ON-GRADE SLABS.

EARTHWORK ESTIMATES

SITE AREA = 3.45 Ha

STRIP (-200mm) OVER 168 Ha = (-3,300m³)

CUT = -3,335m³

FILL = +32,685m³

ALLOWANCES

DETAILED EXCAVATION (2,000m³/ha) = -6,900m³

PILES & FOOTINGS = -2,980m³

BALANCE = +19,470m³ (i.e. FILL OVER CUT)

NOTE:

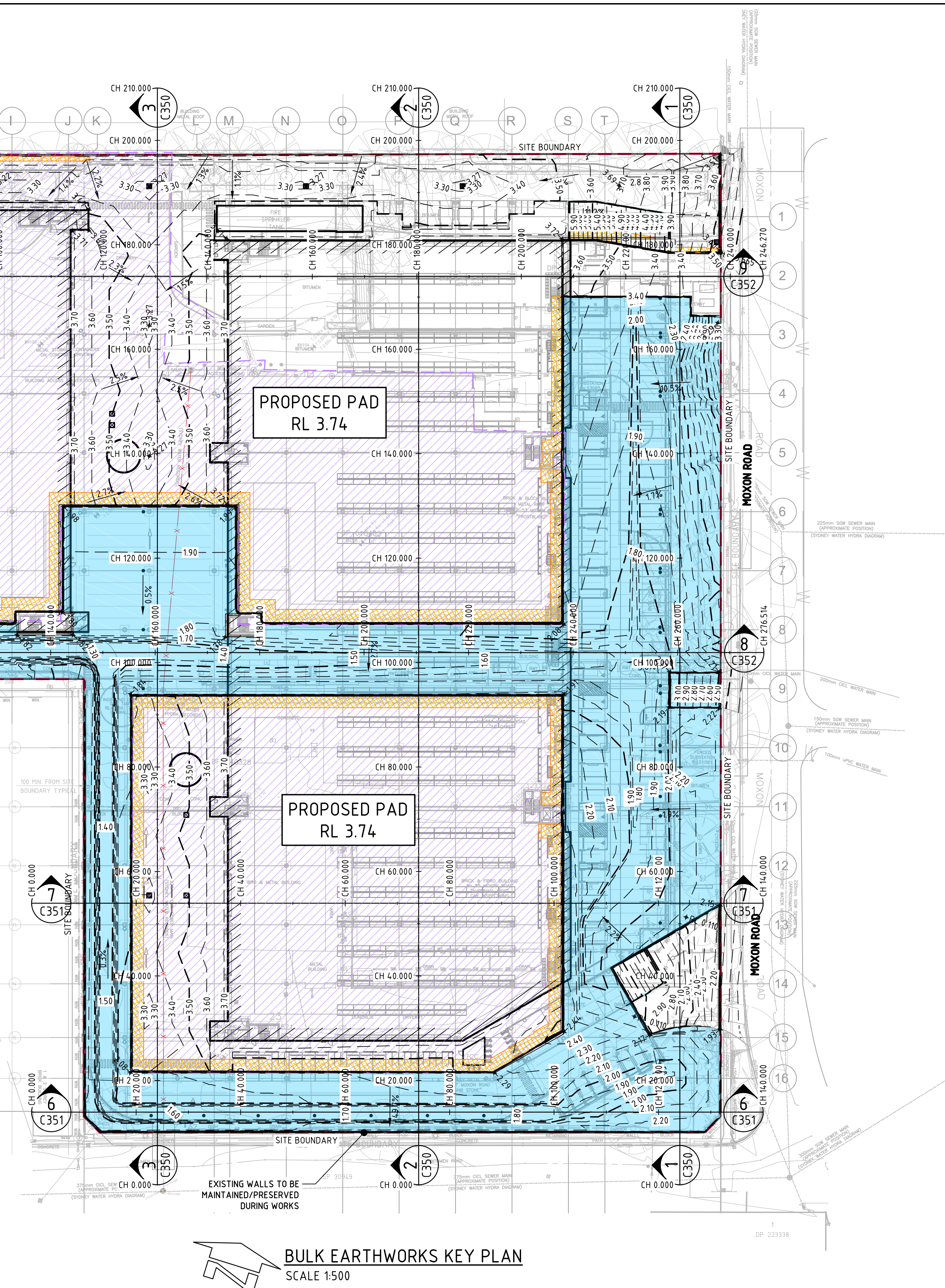
THE EXTENT OF THE EXISTING SLAB TO REMAIN IN PLACE NEED TO BE CONFIRMED BY THE CONTRACTOR. THE EXISTING SLAB RETAINED SHOULD RECEIVE 100mm DIA CORES AT 2.5m CENTRES PRIOR TO FILLING. EXCAVATION AND CONSTRUCTION OF STRUCTURAL FOOTINGS TO BE COORDINATED WITH THE EXISTING SLAB TO REMAIN IN PLACE. CONTRACTOR TO ALLOW FOR CUTOFF OF PILE AND PILE CAPS AS NOMINATED ON THE STRUCTURAL DRAWINGS.

SOME ALLOWANCE HAVE BEEN MADE FOR SITE STRIP (2Ha OF SITE STRIP ALLOWED FOR), WHICH SHOULD INCLUDE THE DEMOLITION AND REMOVAL OF A PORTION OF THE EXISTING SLAB AND BITUMAN PAVEMENTS. CONTRACTOR TO PLACE FILL ON TOP OF EXISTING SLAB TO BULK EARTHWORKS LEVELS IN ACCORDANCE WITH SITE PREPARATION NOTES. PROVIDE NEW CONCRETE PAVEMENT AS SHOWN.

EARTHWORKS VOLUMES ARE APPROXIMATE ONLY. NO ALLOWANCE HAS BEEN MADE FOR DELETERIOUS MATERIAL, EROSION AND SEDIMENT CONTROL, BULKING OR COMPACTION OF FILLED SOILS, THE REMOVAL OF UNCONTROLLED OR CONTAMINATED MATERIAL OR ANY OTHER UNSPECIFIED EXCAVATION RELATED TO CONSTRUCTION ACTIVITIES. DETAILED EXCAVATION ALLOWANCE IS APPROXIMATE ONLY AND ACCOUNTS FOR STORMWATER/SERVICES TRENCHING AND FOUNDATIONS. THE DETAILED EXCAVATION VOLUMES ARE TO BE CONFIRMED BY THE CONTRACTOR. REFER ANY CONCERNS TO ENGINEER.

NOTE:

CONTRACTOR TO REFER TO SECTION 8.5 IN THE GEOTECHNICAL REPORT REFERENCED PSM4771-106R FOR CONSIDERATIONS REGARDING PERMANENT AND TEMPORARY BATTERS. TEMPORARY BATTERS SHALL NOT BE LEFT UNSUPPORTED FOR MORE THAN 1 MONTH WITHOUT FURTHER ADVICE. FURTHER ADVICE SHOULD BE OBTAINED FROM GEOTECHNICAL ENGINEER (INCLUDING AN INSPECTION DURING CONSTRUCTION) SHOULD A TEMPORARY BATTER STEEPER THAN 2.5H:1V BE CONSIDERED IN EXISTING FILL, ALLUVIUM A, ALLUVIUM B OR STEEPER THAN 2H:1V BE CONSIDERED IN ENGINEERED FILL AND RESIDUAL SOILS.



BULK EARTHWORKS KEY PLAN
SCALE 1:500

5m 0 10 20 30 40 50m
SCALE 1:500 AT A1 SIZE SHEET

FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION	04.09.24	0
ISSUED FOR CONSTRUCTION APPROVAL	10.07.24	G
ISSUED FOR CONSTRUCTION APPROVAL	27.06.24	F
ISSUED FOR CO-ORDINATION	31.05.24	E
ISSUED FOR CO-ORDINATION	24.05.24	D
ISSUED FOR CO-ORDINATION	26.04.24	C
AMENDMENTS	DATE	ISSUE

ARCHITECT

PACE
ARCHITECTS

BUEDEY / PROJECT MANAGER

VAUGHAN
CONSTRUCTIONS

PROJECT
MOXON ROAD, MULTI LEVEL WAREHOUSE
45-57 MOXON ROAD, PUNCHBOWL
NSW, 2196

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF.
AH	RN	MAR '24	DS	A1	AS SHOWN	C013924.02-C300

CONSULT AUSTRALIA

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CRC
COSTIN ROE
CONSULTING

CIVIL &
STRUCTURAL
ENGINEERS

DRAWING TITLE
BULK EARTHWORKS KEY PLAN

DRAWING No
C013924.02-C300

ISSUE
0

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- FLOOD CONVEYANCE AREA
- EXISTING FLOOR SLAB TO REMAIN

NOMINATED B.E.L. DETAIL

NTS

PAVEMENT FFL

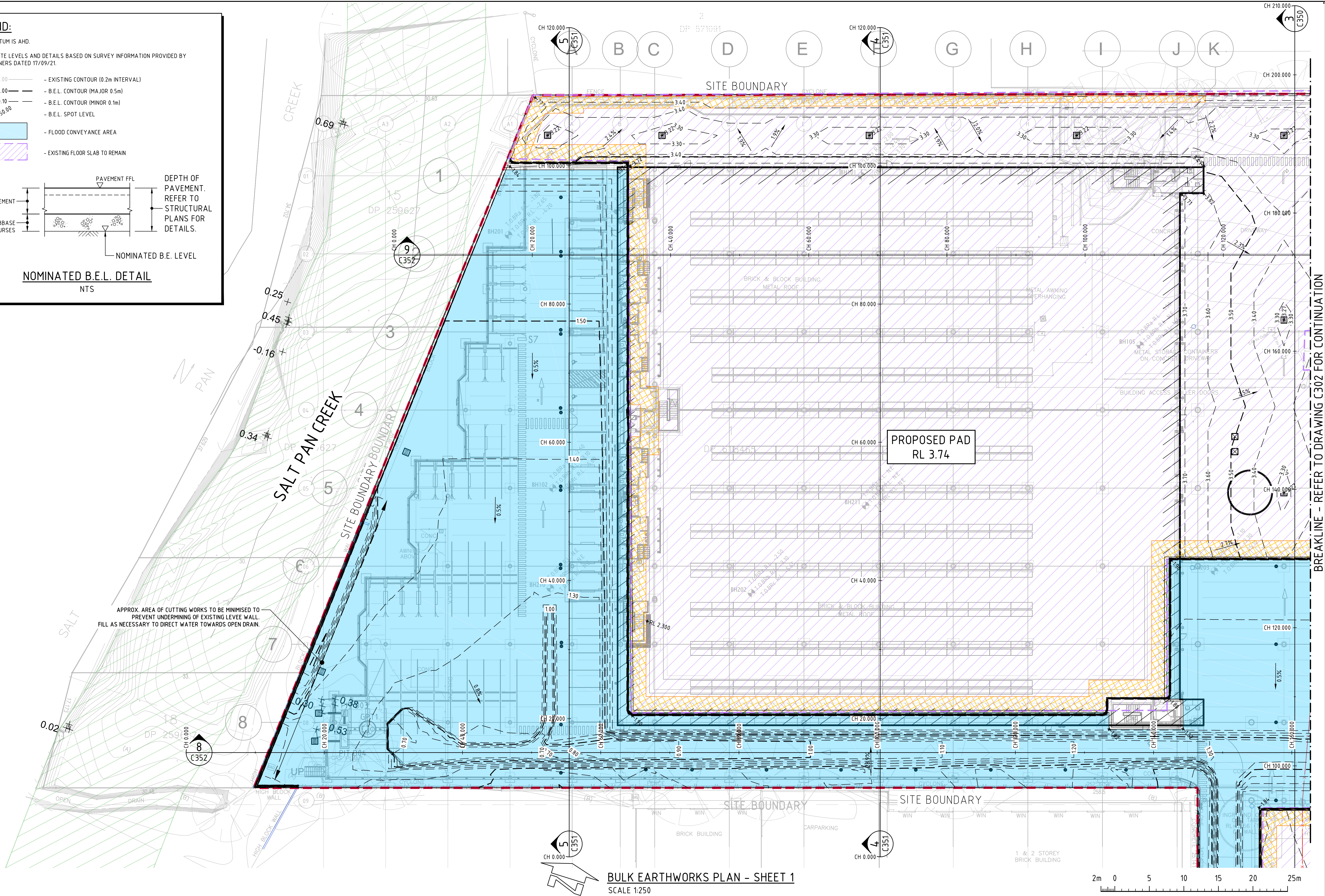
DEPTH OF PAVEMENT. REFER TO STRUCTURAL PLANS FOR DETAILS.

NOMINATED B.E. LEVEL

PAVEMENT

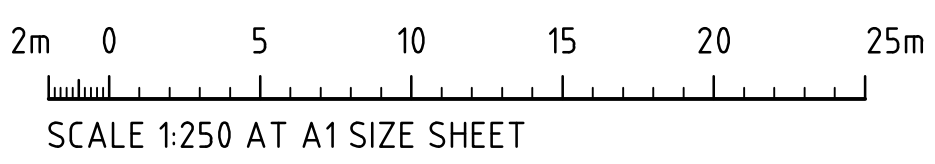
BASE/ SUBBASE

CAPPING COURSES



BULK EARTHWORKS PLAN - SHEET 1
SCALE 1:250

FOR CONSTRUCTION



ISSUED FOR CONSTRUCTION	06.09.24	0
ISSUED FOR CONSTRUCTION APPROVAL	27.06.24	F
ISSUED FOR CO-ORDINATION	31.05.24	E
ISSUED FOR CO-ORDINATION	24.05.24	D
ISSUED FOR CO-ORDINATION	26.04.24	C
ISSUED FOR CO-ORDINATION	15.04.24	B
AMENDMENTS	DATE	ISSUE

ARCHITECT



BUEDEK / PROJECT MANAGER



PROJECT					
MOXON ROAD, MULTI LEVEL WAREHOUSE					
45-57 MOXON ROAD, PUNCHBOWL					
NSW, 2196					
DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE
AH	RN	MAR '24	DS	A1	AS SHOWN
CAD REF:					C013924.02-C301

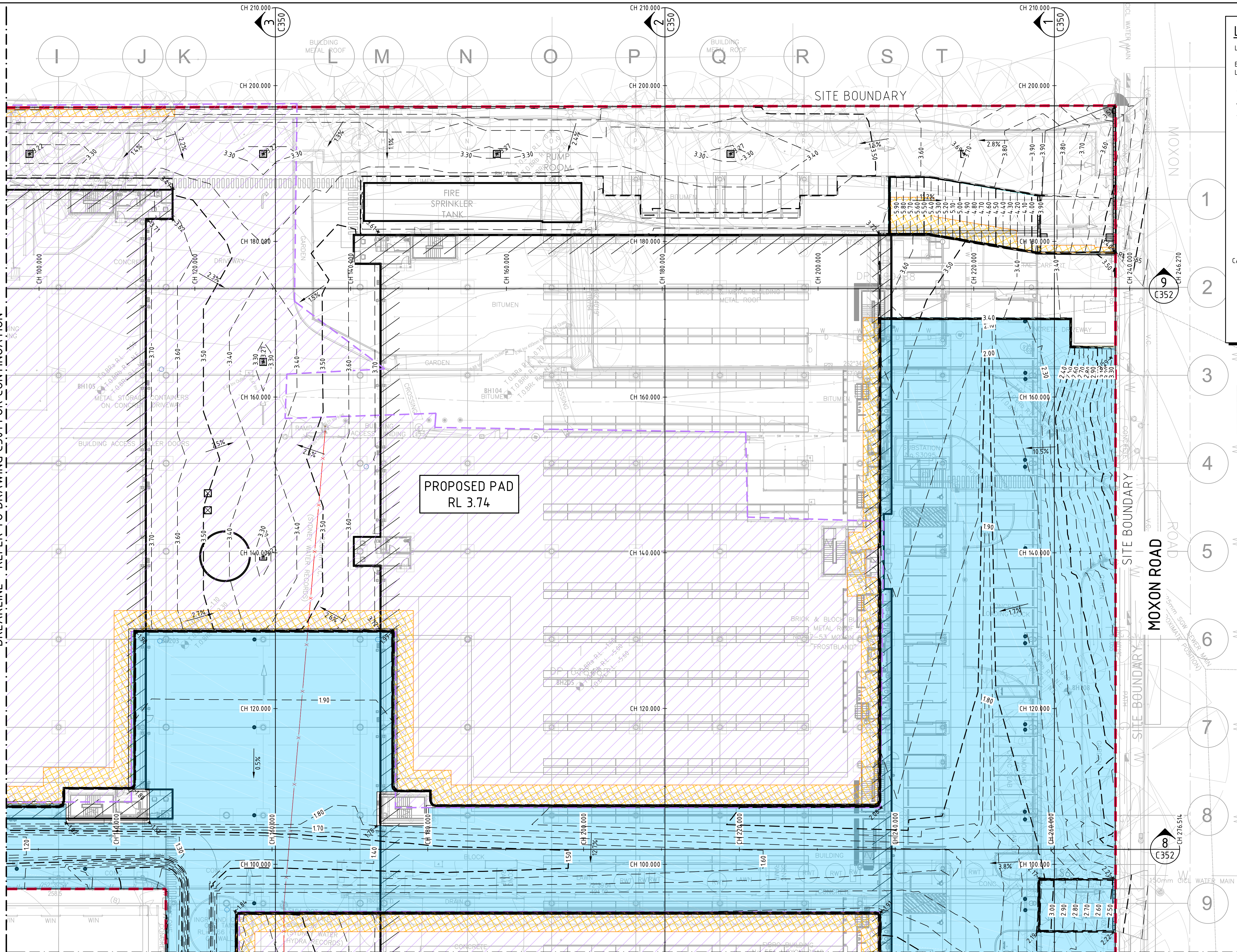


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DRAWING TITLE	BULK EARTHWORKS PLAN
SHEET 1	
DRAWING No	C013924.02-C301
ISSUE	0

BREAKLINE - REFER TO DRAWING C301 FOR CONTINUATION



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NOMINATED B.E.L. DETAIL

NTS

PAVEMENT FFL
PAVEMENT
BASE/ SUBBASE
CAPPING COURSES

DEPTH OF PAVEMENT.
REFER TO
STRUCTURAL
PLANS FOR
DETAILS.

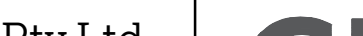
NOMINATED B.E. LEVEL

BREAKLINE - REFER TO DRAWING C303 FOR CONTINUATION

BULK EARTHWORKS PLAN - SHEET 2
SCALE 1:250

FOR CONSTRUCTION

2m 0 5 10 15 20 25m
SCALE 1:250 AT A1 SIZE SHEET

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						<table><tr><td>DESIGNED</td><td>AH</td><td>DRAWN</td><td>RN</td><td>DATE</td><td>MAR '24</td><td>CHECKED</td><td>DS</td><td>SIZE</td><td>A1</td><td>SCALE</td><td>AS SHOWN</td><td>CAD REF:</td><td>C013924.02-C302</td></tr></table>				DESIGNED	AH	DRAWN	RN	DATE	MAR '24	CHECKED	DS	SIZE	A1	SCALE	AS SHOWN	CAD REF:	C013924.02-C302			DRAWING No C013924.02-C302		ISSUE 0								
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EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY LANDPARTNERS DATED 17/09/21.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- FD, SUSPENDED FLOOR DRAIN
- SW, PROPOSED ON-GRADE DRAINAGE LINE
- SW, PROPOSED SUSPENDED DRAINAGE LINE
- SW, EXISTING DRAINAGE LINE
- oDP, ROOFWATER DOWNPIPE (INDICATIVE)
- rFW, ROOFWATER LINE
- OVERLAND FLOW DIRECTION
- 50.00, FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10, FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- FLOOD CONVEYANCE AREA

NOTES:

- REFER TO DRAWING C400 FOR STORMWATER DRAINAGE NOTES.
- REFER TO DRAWING C410 FOR PIT SCHEDULE.

NOTES:

- ALL EXISTING BOUNDARY WALL TO BE RETAINED AND REPAIRED AS REQUIRED.
- FLOOD CONVEYANCE SURFACE TO BE LINED WITH 110mm FIBRE REINFORCED CONCRETE SLAB FINISH (OR SIMILAR APPROVED).
- REFER TO DRAWINGS C404 TO C406 FOR GROUND FLOOR LEVELS & DRAINAGE.
- REFER TO DRAWINGS C407 TO C409 FOR LEVEL 2 LEVELS AND DRAINAGE.

STORMWATER DRAINAGE NOTES:

- ALL STORMWATER WORKS TO BE COMPLETED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3500.3 PLUMBING AND DRAINAGE, PART 3: STORMWATER DRAINAGE.
- THE MINOR (PIPED) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 100 YEAR ARI STORM EVENT AND THE MAJOR (OVERLAND) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 100 YEAR ARI STORM EVENT.
- ALL FINISHED PAVEMENT LEVELS SHALL BE AS INDICATED ON FINISHED LEVELS PLANS C013924.02-C500.
- PIT SIZES SHALL BE AS INDICATED IN THE SCHEDULE WHILE PIPE SIZES AND DETAILS ARE PROVIDED ON PLAN.
- EXISTING STORMWATER PIT LOCATIONS AND INVERT LEVELS TO BE CONFIRMED BY SURVEY PRIOR TO COMMENCING WORKS ON SITE.
- ALL STORMWATER PIPES Ø375 OR GREATER SHALL BE CLASS 2 (WITH HS2 SUPPORT) REINFORCED CONCRETE WITH RUBBER RING JOINTS UNLESS NOTED OTHERWISE.
- ALL PIPES UP TO AND INCLUDING Ø300 TO BE uPVC GRADE S8 UNO.
- PIPE CLASSES NOMINATED ARE FOR IN-SERVICE LOADING CONDITIONS ONLY. CONTRACTOR IS TO MAKE ANY NECESSARY ADJUSTMENTS REQUIRED FOR CONSTRUCTION CONDITIONS.
- ALL CONCRETE PITS GREATER THAN 1000mm DEEP SHALL BE REINFORCED USING N12-200 EACH WAY CENTERED IN WALL AND BASE. LAP MINIMUM 300mm WHERE REQUIRED. ALL CONCRETE FOR PITS SHALL BE F_c=25 MPa. PRECAST PITS MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
- IN ADDITION TO ITEM 9 ABOVE, ALL CONCRETE PITS GREATER THAN 3000mm DEEP SHALL HAVE WALLS AND BASE THICKNESS INCREASED TO 200mm.
- PIPES SHALL BE LAID AS PER PIPE LAYING DETAILS. PARTICULAR CARE SHALL BE TAKEN TO ENSURE THAT THE PIPE IS FULLY AND EVENLY SUPPORTED. RAM AND PACK FILLING AROUND AND UNDER BACK OF PIPES AND PIPE FAUCETS, WITH NARROW EDGED RAMPERS OR OTHER SUITABLE TAMPING DETAILS.
- CONCRETE PIPES UNDER, OR WITHIN THE ZONE OF INFLUENCE OF PAVED AREAS SHALL BE LAID USING HS2 TYPE SUPPORT, AS A MINIMUM, IN ACCORDANCE WITH AS 3725. AGGREGATE BACKFILL SHALL NOT BE USED FOR PIPE BEDDING AND OR HAUNCH/SIDE SUPPORT.
- WHERE PIPE LINES ENTER PITS, PROVIDE 2m LENGTH OF STOCKING WRAPPED SLOTTED Ø100 uPVC TO EACH SIDE OF PIPE.
- ALL SUBSOIL DRAINAGE LINES SHALL BE Ø100 SLOTTED uPVC WITH APPROVED FILTER WRAP LAID IN 300mm WIDE GRANULAR FILTER UNLESS NOTED OTHERWISE. LAY SUBSOIL LINES TO MATCH FALLS OF LAND AND/OR 1 IN 200 MINIMUM. PROVIDE CAPPED CLEANING EYE (RODDING POINT) AT UPSTREAM END OF LINE AND AT 30m MAX. CTS. PROVIDE SUBSOIL LINES TO ALL PAVEMENT / LANDSCAPED INTERFACES, TO REAR OF RETAINING WALLS (AS NOMINATED BY STRUCTURAL ENGINEER) AND AS SHOWN ON PLAN.
- WHERE SUBSOIL DRAINAGE PASSES UNDER A PAVEMENT OR A SLAB, UNSLOTTED uPVC ARE TO BE PROVIDED UNLESS NOTED OTHERWISE.
- ALL PIPE GRADES 1 IN 200 MINIMUM UNO.
- PROVIDE STEP IRONS IN PITS DEEPER THAN 1000mm.
- MIN. 600 COVER TO PIPE OBVERT BENEATH ROADS & MIN. 400 COVER BENEATH LANDSCAPED AND PEDESTRIAN AREAS.
- PIT COVERS IN TRAFFICABLE PAVEMENT SHALL BE CLASS D 'HEAVY DUTY'; THOSE LOCATED IN NON-TRAFFICABLE AREAS SHALL BE CLASS B 'MEDIUM DUTY' UNO.
- PROVIDE CLEANING EYES (RODDING POINTS) TO PIPES AT ALL CORNERS AND T-JUNCTIONS WHERE NO PITS ARE PRESENT.
- DOWN PIPES (DP) TO BE AS PER HYDRAULIC ENGINEERS DETAILS WITH CONNECTOR TO MATCH DP SIZE UNO. ON PLAN. PROVIDE CLEANING EYE AT GROUND LEVEL.
- PIPE LENGTHS NOMINATED ON PLAN OR LONGSECTIONS ARE MEASURED FROM CENTER OF PITS TO THE NEAREST 0.5m AND DO NOT REPRESENT ACTUAL LENGTH. THE CONTRACTOR IS TO ALLOW FOR THIS.
- WHERE CONNECTION TO EXISTING INGROUND DRAINAGE SYSTEMS, OPEN SWALES, CHANNELS OR ANY OTHER EXISTING SYSTEM, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND INVERT ON SITE AT THE BEGINNING OF THE CONSTRUCTION PERIOD. REFER ANY VARIANCE FROM DOCUMENTATION OR SURVEYS TO THE ENGINEER FOR CLARIFICATION.

EXISTING PIPES FROM SALT PAN CREEK TO BE LOCATED ON SITE PRIOR TO CONSTRUCTION. PIPE DIAMETER AND INVERT TO BE CONFIRMED WITH ENGINEER.

DISCHARGE POINT 1

PROPOSED Ø825 BALANCE PIPE LAID FLAT TO EXISTING SITE DISCHARGE POINTS. PROVIDE PIT OVER EXISTING STUBS WITHIN BOUNDARY. CAPACITY OF BALANCE SYSTEM TO BE ASSESSED POST SURVEY.

DISCHARGE POINT 2
CONNECTION TO EXISTING Ø450 PIPE TO BE CONFIRMED. EXISTING LEVEE WALL TO BE DEMOLISHED TO EXTG. PIPE. LEVEE TO BE REINSTATED TO MATCH EXTG.

PROVIDE FIRST FLUSH DIVERTER TO RAINWATER TANK PRE-TREATMENT. FIRST FLUSH DIVERTER TO STORE 0.2L/m² OF ROOF AREA. PROVIDE 720L OF STORAGE. FIRST FLUSH DIVERTER SYSTEM TO BE CONFIRMED BY HYDRAULIC ENGINEER.

SUSPENDED HARDSTAND TO DRAIN VIA FLOOR DRAINS AND SUSPENDED PIPEWORK TO NEAREST COLUMN. DISCHARGE TO NEAREST IN-GROUND DRAINAGE. FLOOR DRAIN, DROPPER AND CONNECTION LOCATION TO BE CONFIRMED AT DETAILED DESIGN.

REFER TO DRAWING C402

REFER TO DRAWING C401

REFER TO DRAWING C403

STORMWATER DRAINAGE KEY PLAN
SCALE 1:500

5m 0 10 20 30 40 50m
SCALE 1:500 AT A1 SIZE SHEET

FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION	04.09.24	0
ISSUED FOR CONSTRUCTION APPROVAL	12.07.24	G
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VAUGHAN
CONSTRUCTIONS

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MOXON ROAD, MULTI LEVEL WAREHOUSE
45-57 MOXON ROAD, PUNCHBOWL
NSW, 2196

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**CIVIL &
STRUCTURAL
ENGINEERS**

DRAWING TITLE
STORMWATER DRAINAGE KEY PLAN

DRAWING No
C013924.02-C400

ISSUE
0

LEGEND:

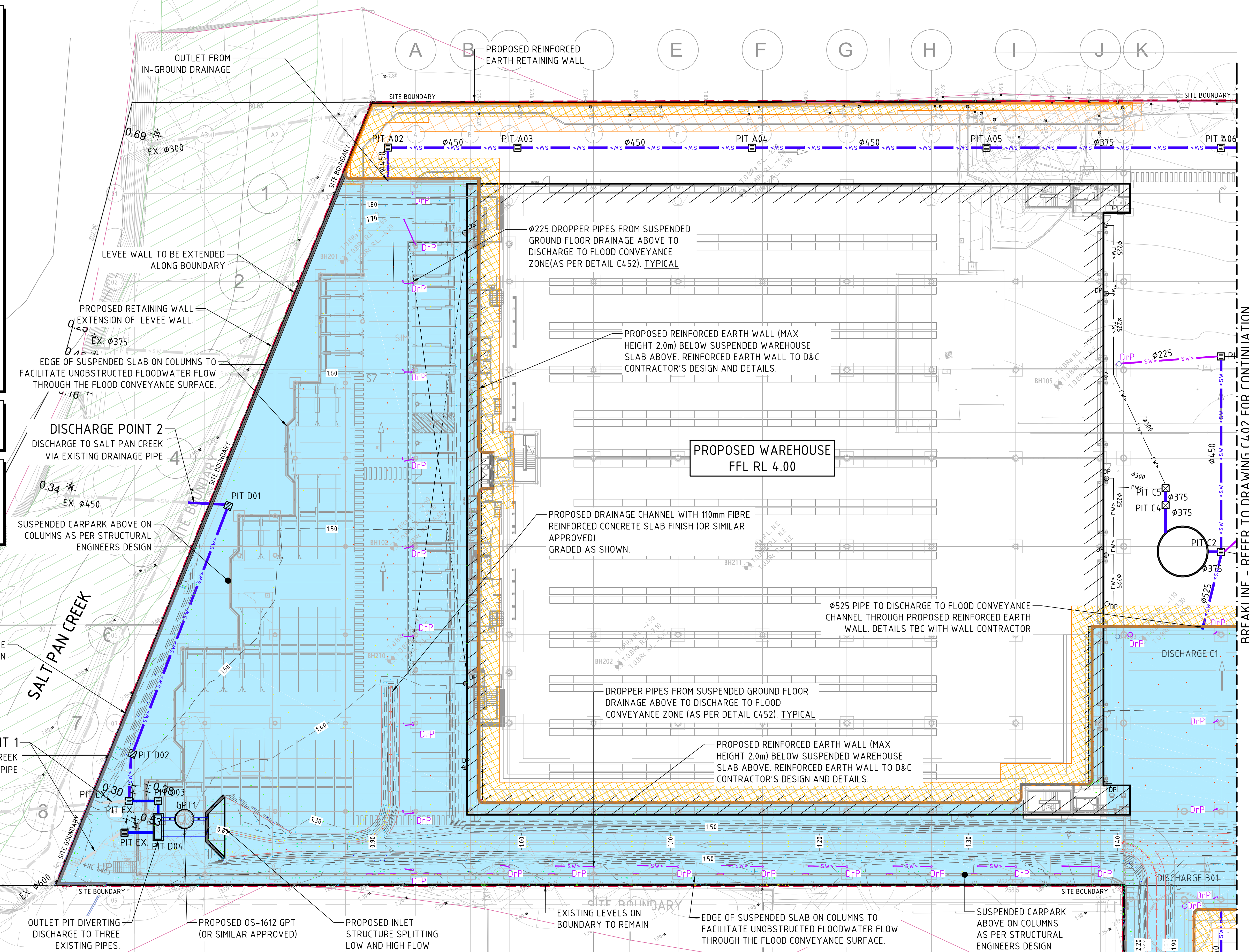
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 - FD, SUSPENDED FLOOR DRAIN
 - PROPOSED ON-GRADE DRAINAGE LINE
 - PROPOSED SUSPENDED DRAINAGE LINE
 - EXISTING DRAINAGE LINE
 - ROOFWATER DOWNPIPE (INDICATIVE)
 - ROOFWATER LINE
 - OVERLAND FLOW DIRECTION
 - FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
 - FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
 - FLOOD CONVEYANCE AREA
 - DROPPER PIPES

NOTES:

- REFER TO DRAWING C400 FOR STORMWATER DRAINAGE NOTES.
- REFER TO DRAWING C410 FOR PIT SCHEDULE.

NOTES:

- ALL EXISTING BOUNDARY WALL TO BE RETAINED AND REPAIRED AS REQUIRED
- FLOOD CONVEYANCE SURFACE TO BE LINED 110mm FIBRE REINFORCED CONCRETE SLAB FINISH (OR SIMILAR APPROVED)
- REFER TO DRAWINGS C404 TO C406 FOR GROUND FLOOR LEVELS & DRAINAGE.
- REFER TO DRAWINGS C407 TO C409 FOR LEVEL 1 LEVELS AND DRAINAGE.

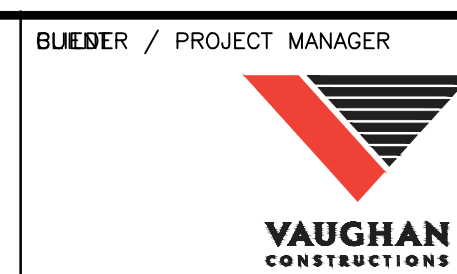


STORMWATER DRAINAGE PLAN - FLOOD STORAGE AREA - SHEET 1
SCALE 1:250

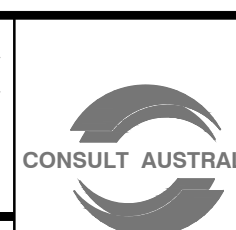
2m 0 5 10 15 20 25m
SCALE 1:250 AT A1 SIZE SHEET

FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION	04.09.24	0
REVISED AS CLOUDED	10.07.24	H
ISSUED FOR CONSTRUCTION APPROVAL	28.06.24	G
ISSUED FOR CO-ORDINATION	31.05.24	F
ISSUED FOR CO-ORDINATION	27.05.24	E
ISSUED FOR CO-ORDINATION	29.04.24	D
AMENDMENTS	DATE	ISSUE



PROJECT					
MOXON ROAD, MULTI LEVEL WAREHOUSE					
45-57 MOXON ROAD, PUNCHBOWL					
NSW, 2196					
DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE
AH	RN	MAR '24	DS	A1	AS SHOWN
					CAD REF:
					C013924.02-C401

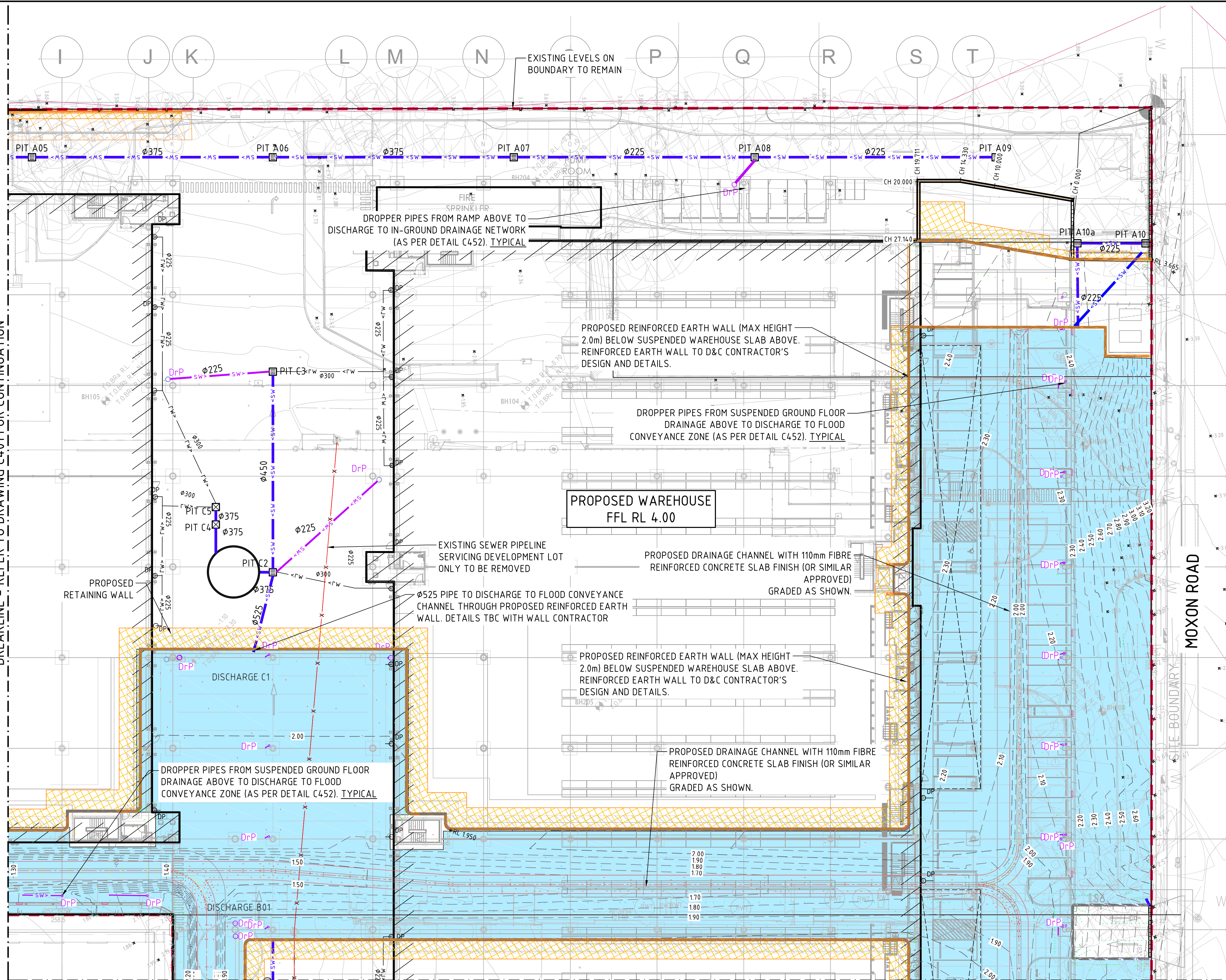


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DRAWING TITLE	STORMWATER DRAINAGE PLAN FLOOD STORAGE AREA SHEET 1
DRAWING No	C013924.02-C401
ISSUE	0

BREAKLINE - REFER TO DRAWING C401 FOR CONTINUATION



LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY LANDPARTNERS DATED 17/09/21.

- SGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- FD, SUSPENDED FLOOR DRAIN
- SW, PROPOSED ON-GRADE DRAINAGE LINE
- SW, PROPOSED SUSPENDED DRAINAGE LINE
- SW, EXISTING DRAINAGE LINE
- oDP, ROOFWATER DOWNPIPE (INDICATIVE)
- rW, ROOFWATER LINE
- OVERLAND FLOW DIRECTION
- 50.00, FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10, FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- FLOOD CONVEYANCE AREA
- DrP, DROPPER PIPES

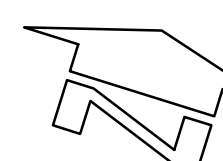
NOTES:

- REFER TO DRAWING C400 FOR STORMWATER DRAINAGE NOTES.
- REFER TO DRAWING C410 FOR PIT SCHEDULE.

NOTES:

- ALL EXISTING BOUNDARY WALL TO BE RETAINED AND REPAIRED AS REQUIRED
- FLOOD CONVEYANCE SURFACE TO BE LINED 110mm FIBRE REINFORCED CONCRETE SLAB FINISH (OR SIMILAR APPROVED)
- REFER TO DRAWINGS C404 TO C406 FOR GROUND FLOOR LEVELS & DRAINAGE.
- REFER TO DRAWINGS C407 TO C409 FOR LEVEL 1 LEVELS AND DRAINAGE.

BREAKLINE - REFER TO DRAWING C403 FOR CONTINUATION



STORMWATER DRAINAGE PLAN - FLOOD STORAGE AREA - SHEET 2

SCALE 1:250

FOR CONSTRUCTION

5m 0 10 20 30 40 50m

SCALE 1:500 AT A1 SIZE SHEET

ISSUED FOR CONSTRUCTION	04.09.24	0
REVISED AS CLOUDED	10.07.24	H
ISSUED FOR CONSTRUCTION APPROVAL	28.06.24	G
ISSUED FOR CO-ORDINATION	31.05.24	F
ISSUED FOR CO-ORDINATION	27.05.24	E
ISSUED FOR CO-ORDINATION	29.04.24	D
AMENDMENTS	DATE	ISSUE

ARCHITECT

PACE
ARCHITECTS

BUEBER / PROJECT MANAGER

VAUGHAN
CONSTRUCTIONS

PROJECT
MOXON ROAD, MULTI LEVEL WAREHOUSE
45-57 MOXON ROAD, PUNCHBOWL
NSW, 2196

DESIGNED	DATE	CHECKED	SIZE	SCALE	CAD REF.
AH	RN	DS	A1	AS SHOWN	C013924.02-C402

CONSULT AUSTRALIA

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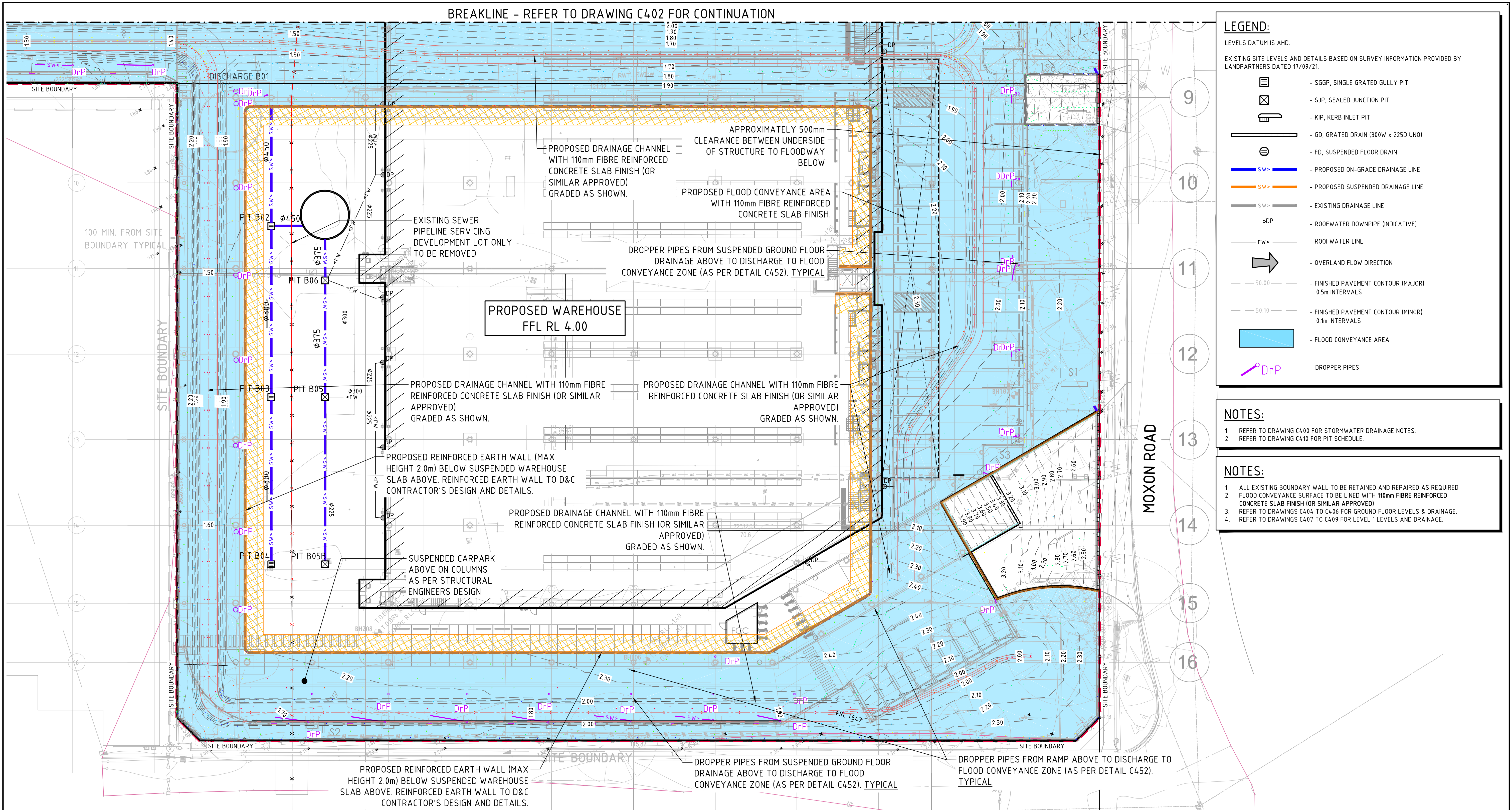
CRC
COSTIN ROE
CONSULTING

**CIVIL &
STRUCTURAL
ENGINEERS**

DRAWING TITLE
STORMWATER DRAINAGE PLAN
FLOOD STORAGE AREA
SHEET 2

DRAWING No
C013924.02-C402

ISSUE
0



STORMWATER DRAINAGE PLAN - FLOOD STORAGE AREA - SHEET 3
SCALE 1:250

FOR CONSTRUCTION

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY LANDPARTNERS DATED 17/09/21.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- FD, SUSPENDED FLOOR DRAIN
- PROPOSED ON-GRADE DRAINAGE LINE
- EXISTING DRAINAGE LINE
- ROOFWATER DOWNPIPE (INDICATIVE)
- ROOFWATER LINE
- OVERLAND FLOW DIRECTION
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- SUSPENDED STRUCTURE REFER TO DRAWINGS C401 TO C403 FOR FLOOD CONVEYANCE AREA
- DROPPER PIPES

NOTES:

1. REFER TO DRAWING C400 FOR STORMWATER DRAINAGE NOTES.
2. REFER TO DRAWING C410 FOR PIT SCHEDULE.

NOTES:

1. ALL EXISTING BOUNDARY WALL TO BE RETAINED AND REPAIRED AS REQUIRED
2. FLOOD CONVEYANCE SURFACE TO BE LINED WITH 110mm FIBRE REINFORCED CONCRETE SLAB FINISH (OR SIMILAR APPROVED).
3. REFER TO DRAWINGS C404 TO C406 FOR GROUND FLOOR LEVELS & DRAINAGE.
4. REFER TO DRAWINGS C407 TO C409 FOR LEVEL 1 LEVELS AND DRAINAGE.

DISCHARGE POINT 2
DISCHARGE TO SALT PAN CREEK
VIA EXISTING DRAINAGE PIPE

SUSPENDED CARPARK
ABOVE ON COLUMNS
AS PER STRUCTURAL
ENGINEERS DESIGN

EXISTING LEVEE
WALL TO REMAIN

DISCHARGE POINT 1
DISCHARGE TO SALT PAN CREEK
VIA EXISTING DRAINAGE PIPE

PROVIDE SIX 750mm
LONG BREAKS IN KERB
FOR OVERLAND RELIEF

PROPOSED REINFORCED EARTH
RETAINING WALL

INDICATIVE REINFORCED
EARTH STRAPS

DISH DRAIN AND FLOOR DRAIN

DROPPER PIPES FROM FLOOR DRAIN DRAIN TO DISCHARGE
TO FLOOD CONVEYANCE AREA (AS PER DETAIL C452).
TYPICAL

PROPOSED RETAINING WALL FOR
FLOOD CONVEYANCE

OFFICES ABOVE

PROPOSED WAREHOUSE
FFL RL 4.00

DROPPER PIPES FROM FLOOR DRAIN DRAIN TO DISCHARGE
TO FLOOD CONVEYANCE AREA (AS PER DETAIL C452).
TYPICAL

ROOFWATER LINES TO HAVE NOMINAL 0.5% FALL AND TO
DISCHARGE DIRECTLY INTO FLOOD CONVEYANCE SURFACE.
REFER ALL CONCERNS TO ENGINEER.
TYPICAL

DISH DRAIN AND FLOOR DRAIN

FLOOR DRAINS TO DISCHARGE VIA DROPPER
PIPES DOWN COLUMNS TO FLOOD CONVEYANCE
AREA BELOW. (AS PER DETAIL C452). TYPICAL

DISH DRAIN AND FLOOR DRAIN

PROVIDE DN100 OVERFLOW OUTLETS
IN CONCRETE BARRIER AT 4m
CENTRES FOR EMERGENCY RELIEF TO
FLOOD CHANNEL

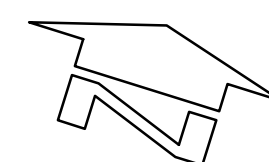
IN-GROUND DRAINAGE PIPE TO DISCHARGE
TO FLOOD CONVEYANCE AREA THROUGH
PROPOSED REINFORCED EARTH WALL.
(DETAILS TBC WITH WALL CONTRACTOR)

PROVIDE FIRST FLUSH DIVERTER TO
RAINWATER TANK.
REFER TO HYDRAULIC ENGINEER'S
DRAWINGS FOR DETAILS

RWT1:
PROPOSED 1X50KL BELOW GROUND
RAINWATER TANK.
TBC BY HYDRAULIC ENGINEER.
(PORTION OF ROOF TO RAINWATER
TANK SHOWN ON C400)

DROPPER PIPE FROM LEVEL 1 DRAINAGE ABOVE
TO DISCHARGE DIRECTLY INTO FLOOD
CONVEYANCE AREA (AS PER DETAIL C452).
TYPICAL

IN-GROUND DRAINAGE PIPE TO DISCHARGE
TO FLOOD CONVEYANCE AREA THROUGH
PROPOSED REINFORCED EARTH WALL.
(DETAILS TBC WITH WALL CONTRACTOR)



STORMWATER DRAINAGE PLAN - GROUND FLOOR - SHEET 1

SCALE 1:250

2m 0 5 10 15 20 25m

SCALE 1:250 AT A1 SIZE SHEET

FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION	04.09.24	0
REVISED AS CLOUDED	10.07.24	E
ISSUED FOR CONSTRUCTION APPROVAL	28.06.24	D
ISSUED FOR CO-ORDINATION	31.05.24	C
ISSUED FOR CO-ORDINATION	26.04.24	B
ISSUED FOR CO-ORDINATION	24.04.24	A
AMENDMENTS	DATE	ISSUE

ARCHITECT

PACE
ARCHITECTS

BUEBBER / PROJECT MANAGER

VAUGHAN
CONSTRUCTIONS

PROJECT
MOXON ROAD, MULTI LEVEL WAREHOUSE
45-57 MOXON ROAD, PUNCHBOWL
NSW, 2196

DESIGNED	DATE	CHECKED	SIZE	SCALE	CAD REF:
AH	RN	DS	A1	AS SHOWN	C013924.02-C404

CONSULT AUSTRALIA

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CRC
COSTIN ROE
CONSULTING

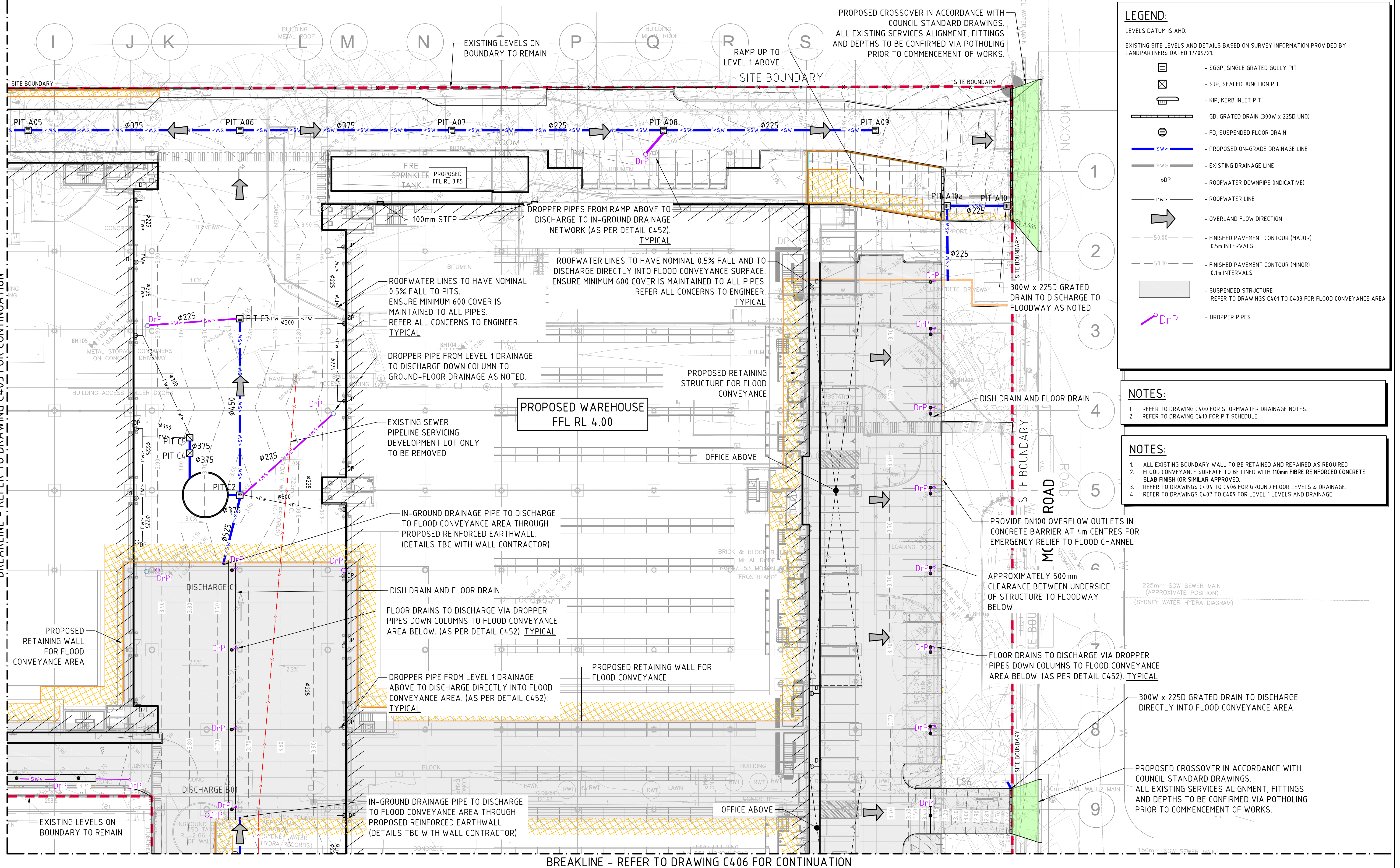
**CIVIL &
STRUCTURAL
ENGINEERS**

DRAWING TITLE
STORMWATER DRAINAGE PLAN
GROUND FLOOR
SHEET 1

DRAWING No
C013924.02-C404

ISSUE
0

BREAKLINE - REFER TO DRAWING C405 FOR CONTINUATION



LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY LANDPARTNERS DATED 17/09/21.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- FD, SUSPENDED FLOOR DRAIN
- PROPOSED ON-GRADE DRAINAGE LINE
- EXISTING DRAINAGE LINE
- ROOFWATER DOWNPIPE (INDICATIVE)
- ROOFWATER LINE
- OVERLAND FLOW DIRECTION
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- SUSPENDED STRUCTURE REFER TO DRAWINGS C401 TO C403 FOR FLOOD CONVEYANCE AREA
- DROPPER PIPES

NOTES:

- REFER TO DRAWING C400 FOR STORMWATER DRAINAGE NOTES.
- REFER TO DRAWING C410 FOR PIT SCHEDULE.

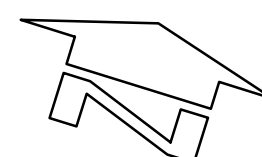
NOTES:

- ALL EXISTING BOUNDARY WALL TO BE RETAINED AND REPAIRED AS REQUIRED
- FLOOD CONVEYANCE SURFACE TO BE LINED WITH 110mm FIBRE REINFORCED CONCRETE SLAB FINISH (OR SIMILAR APPROVED).
- REFER TO DRAWINGS C404 TO C406 FOR GROUND FLOOR LEVELS & DRAINAGE.
- REFER TO DRAWINGS C407 TO C409 FOR LEVEL 1 LEVELS AND DRAINAGE.

225mm SGW SEWER MAIN (APPROXIMATE POSITION) (SYDNEY WATER HYDRA DIAGRAM)

300W x 225D GRATED DRAIN TO DISCHARGE DIRECTLY INTO FLOOD CONVEYANCE AREA

PROPOSED CROSSOVER IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS. ALL EXISTING SERVICES ALIGNMENT, FITTINGS AND DEPTHS TO BE CONFIRMED VIA POT-HOLING PRIOR TO COMMENCEMENT OF WORKS.

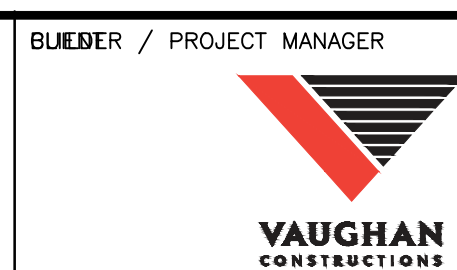


STORMWATER DRAINAGE PLAN - GROUND FLOOR - SHEET 2
SCALE 1:250

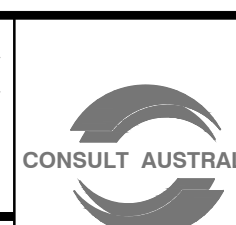
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SCALE 1:250 AT A1 SIZE SHEET

FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION	04.09.24	0
REVISED AS CLOUDED	12.07.24	F
REVISED AS CLOUDED	10.07.24	E
ISSUED FOR CONSTRUCTION APPROVAL	28.06.24	D
ISSUED FOR CO-ORDINATION	31.05.24	C
ISSUED FOR CO-ORDINATION	26.04.24	B
AMENDMENTS	DATE	ISSUE



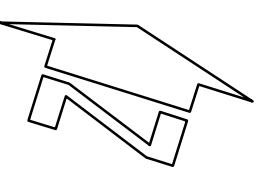
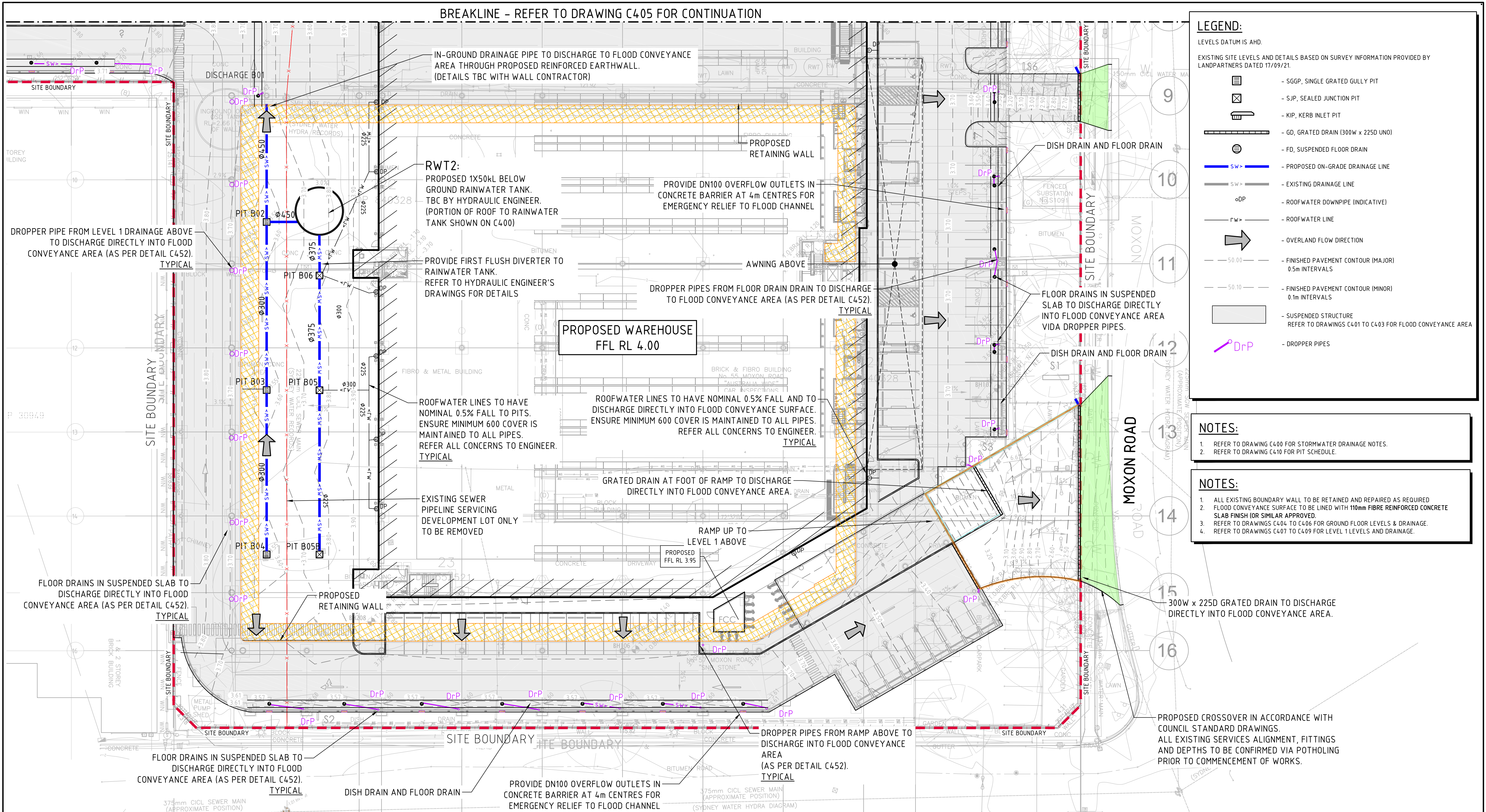
PROJECT MOXON ROAD, MULTI LEVEL WAREHOUSE 45-57 MOXON ROAD, PUNCHBOWL NSW, 2196						
DESIGNED AH	DRAWN RN	DATE MAR '24	CHECKED DS	SIZE A1	SCALE AS SHOWN	CAD REF: C013924.02-C405



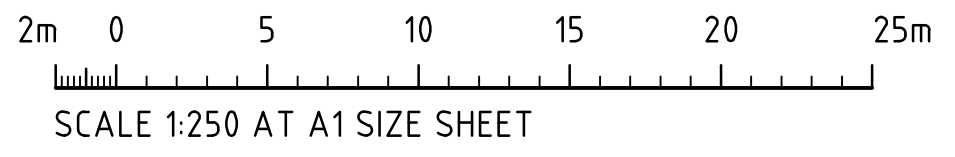
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DRAWING TITLE STORMWATER DRAINAGE PLAN GROUND FLOOR SHEET 2	
DRAWING No C013924.02-C405	ISSUE 0



STORMWATER DRAINAGE PLAN - GROUND FLOOR - SHEET 3
SCALE 1:250



FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION04.09.240 REVISED AS CLOUDED12.07.24F REVISED AS CLOUDED10.07.24E ISSUED FOR CONSTRUCTION APPROVAL28.06.24D ISSUED FOR CO-ORDINATION31.05.24C ISSUED FOR CO-ORDINATION26.04.24B AMENDMENTS DATE ISSUE			ARCHITECT PACE ARCHITECTS		BUEBER / PROJECT MANAGER VAUGHAN CONSTRUCTIONS	PROJECT MOXON ROAD, MULTI LEVEL WAREHOUSE 45-57 MOXON ROAD, PUNCHBOWL NSW, 2196			DESIGNEDAH DRAWNRN DATEMAR '24 CHECKEDDS SIZEA1 SCALEAS SHOWN CAD REFC013924.02-606		CONSULT AUSTRALIA COSTIN ROE CONSULTING PTY LTD.		CRC COSTIN ROE CONSULTING CIVIL & STRUCTURAL ENGINEERS		DRAWING TITLE STORMWATER DRAINAGE PLAN GROUND FLOOR SHEET 3		DRAWING No C013924.02-C406	ISSUE 0
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LEGEND:

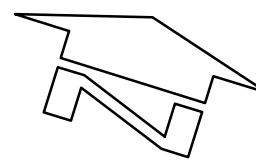
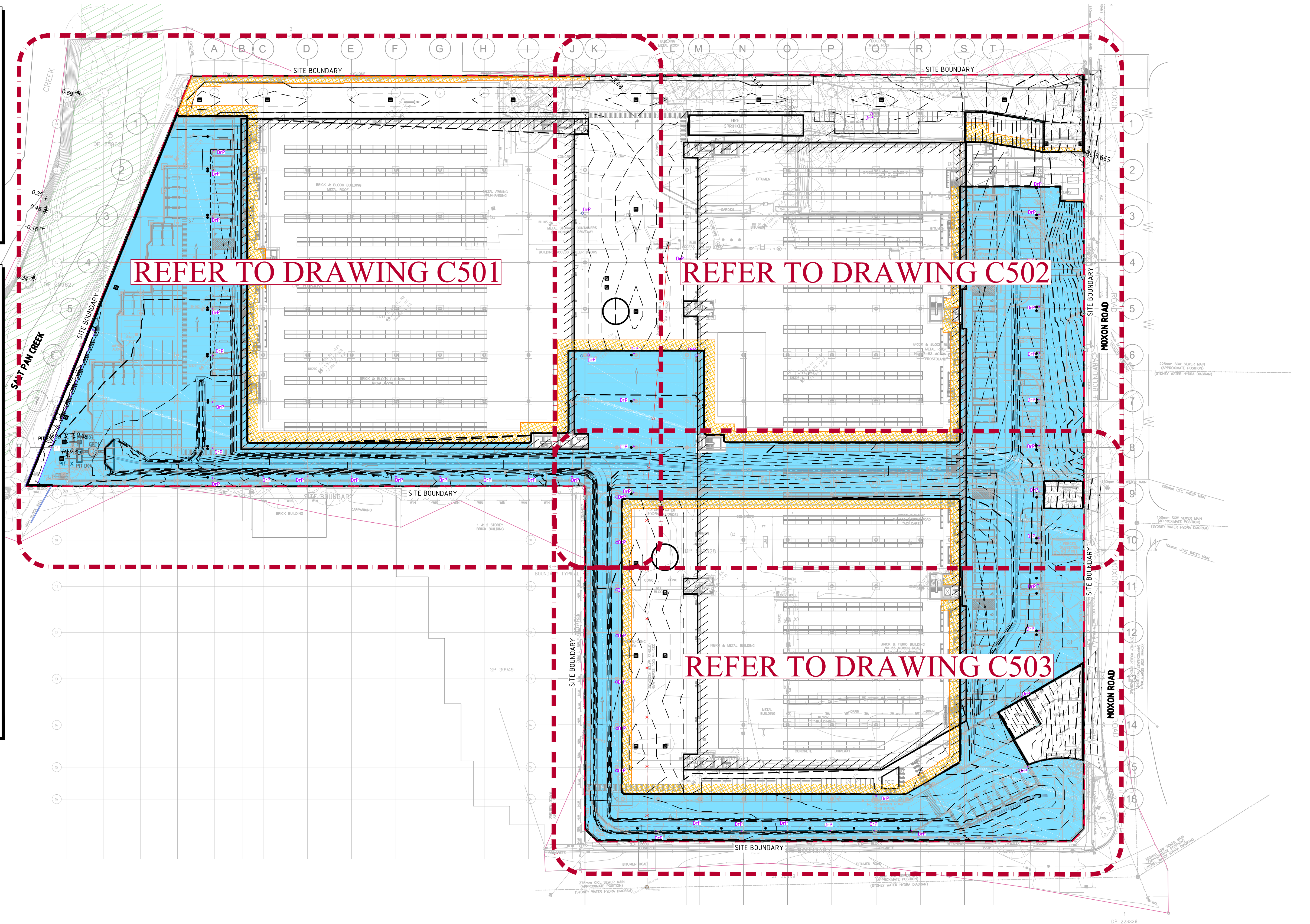
LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY LANDPARTNERS DATED 17/09/21.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- FD, SUSPENDED FLOOR DRAIN
- DrP, DROPPER PIPE
- 50.00 - FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 - FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- FLOOD CONVEYANCE AREA

FINISHED LEVELS PLAN NOTES:

- LEVELS DATUM IS AUSTRALIAN HEIGHT DATUM (A.H.D.).
- GRADING REQUIREMENTS TO BE COMPLETED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS2890.1, AS2890.2 AND AS2890.6.
- ALL CONTOUR LINES & SPOT LEVELS INDICATE FINISHED PAVEMENT LEVELS U.N.O. ON PLAN.
- CONTOUR INTERVALS
 - THE MINOR CONTOUR INTERVAL IS 0.1m.
 - THE MAJOR CONTOUR INTERVAL IS 0.5m.
- HARDSTAND GRADING
 - MINIMUM PAVEMENT GRADE IS TO BE 1:100 (1%)
 - GRADING OF ON-GRADE DOCKS TO BE 1:100 (1%) FALL AWAY FROM THE DOCK FACE FOR A LENGTH OF 15m U.N.O.
 - GRADING OF TRUCK CIRCULATION ZONES TO BE MINIMUM AS NOTED ABOVE, 3-4% NOMINAL AND MAX. 5%.
- CAR PARKING AREA GRADES
 - MINIMUM PAVEMENT GRADE IS TO BE 1:100 (1%), DESIRABLE MINIMUM GRADE 1:50 (2%).
 - MAXIMUM PAVEMENT GRADE IS TO BE 1:20 (5%) IN CARPARKING AREAS AND 1:25 (4%) ELSEWHERE.
 - DISABLED ACCESS PARKING ZONES AND SHARED SPACE TO BE MAXIMUM OF 1:33 (3%) IN ASPHALT PAVEMENT AND MAXIMUM OF 1:40 (2.5%) IN CONCRETE PAVEMENT.
 - CARPARK RAMP GRADES TO BE MAX 1:5 WITH 2.5m SMOOTH TRANSITION AT TOP AND BOTTOM U.N.O.
- TRUCK RAMP GRADES
 - MAXIMUM B-DOUBLE OR 19.0m AV RAMP GRADES ARE TO BE 1:8.3 (12%) U.N.O. ON PLAN.
 - PROVIDE MINIMUM 4.0m LONG TRANSITION WHERE CHANGES OF GRADE EXCEED 1:20 (5%) AT A CREST U.N.O.
 - PROVIDE MINIMUM 3.0m LONG TRANSITION WHERE CHANGE OF GRADE EXCEED 1:20 (5%) AT A SAG U.N.O.
 - TRANSITIONS ARE TO PROVIDE A SMOOTH CONTINUOUS CIRCULAR AND TANGENTIAL CHANGE IN GRADE TO ENSURE NO SHARP OR ACUTE CHANGES IN GRADE ARE PRESENT.
- WHERE FIRE BRIGADE ACCESS IS REQUIRED, MAXIMUM RAMP GRADIENTS ARE TO BE 1:6 (16.6%), DESIRABLE RAMP GRADIENTS ARE TO BE 1:8 (12.5%) WITH 7m TRANSITION TOP AND BOTTOM U.N.O. ON PLAN.
- PERMANENT BATTER SLOPES ARE TO HAVE A MAXIMUM GRADE OF 1V:3H U.N.O. BASED ON GEOTECHNICAL ASSESSMENT. PROVIDE MINIMUM 0.5m BERM BETWEEN THE BACK OF KERB OR PAVEMENT EDGES AND THE TOP OR TOE OF A BATTER.
- ALL BATTER SLOPE WITH GRADES AT OR EXCEEDING 1V:6H ARE TO BE TURFED IMMEDIATELY OR APPROPRIATE EROSION CONTROL IS TO BE PROVIDED TO THE SATISFACTION OF THE ENGINEER.
- ALL FOOTPATHS ARE TO FALL AWAY FROM THE BUILDING AT 2.5% NOMINAL GRADE.
- ALL PAVEMENTS ARE TO BE SET AT 30mm BELOW THE FINISHED FLOOR LEVEL OF THE WAREHOUSE AND OFFICE AREAS. PROVIDE LOCAL FEATHERING AT DOORWAYS OR ROLLER SHUTTERS TO PROVIDE FLUSH FINISH AS REQUIRED.
- WHERE NEW AND EXISTING INTERFACING IS REQUIRED, MATCH EXISTING LEVELS AND PROVIDE SMOOTH INTERFACE BETWEEN NEW AND EXISTING GRADIENTS. REFER ANY CONCERNS TO THE ENGINEER.



FINISHED LEVELS KEY PLAN
SCALE 1:500

5m 0 10 20 30 40 50m
SCALE 1:500 AT A1 SIZE SHEET

FOR CONSTRUCTION

ARCHITECT



BUILDER / PROJECT MANAGER



PROJECT
MOXON ROAD, MULTI LEVEL WAREHOUSE
45-57 MOXON ROAD, PUNCHBOWL
NSW, 2196

DESIGNED	DATE	CHECKED	SIZE	SCALE	CAD REF:
AH	MAR '24	DS	A1	AS SHOWN	C013924.02-C500



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CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
FINISHED LEVELS KEY PLAN

DRAWING No C013924.02-C500

ISSUE

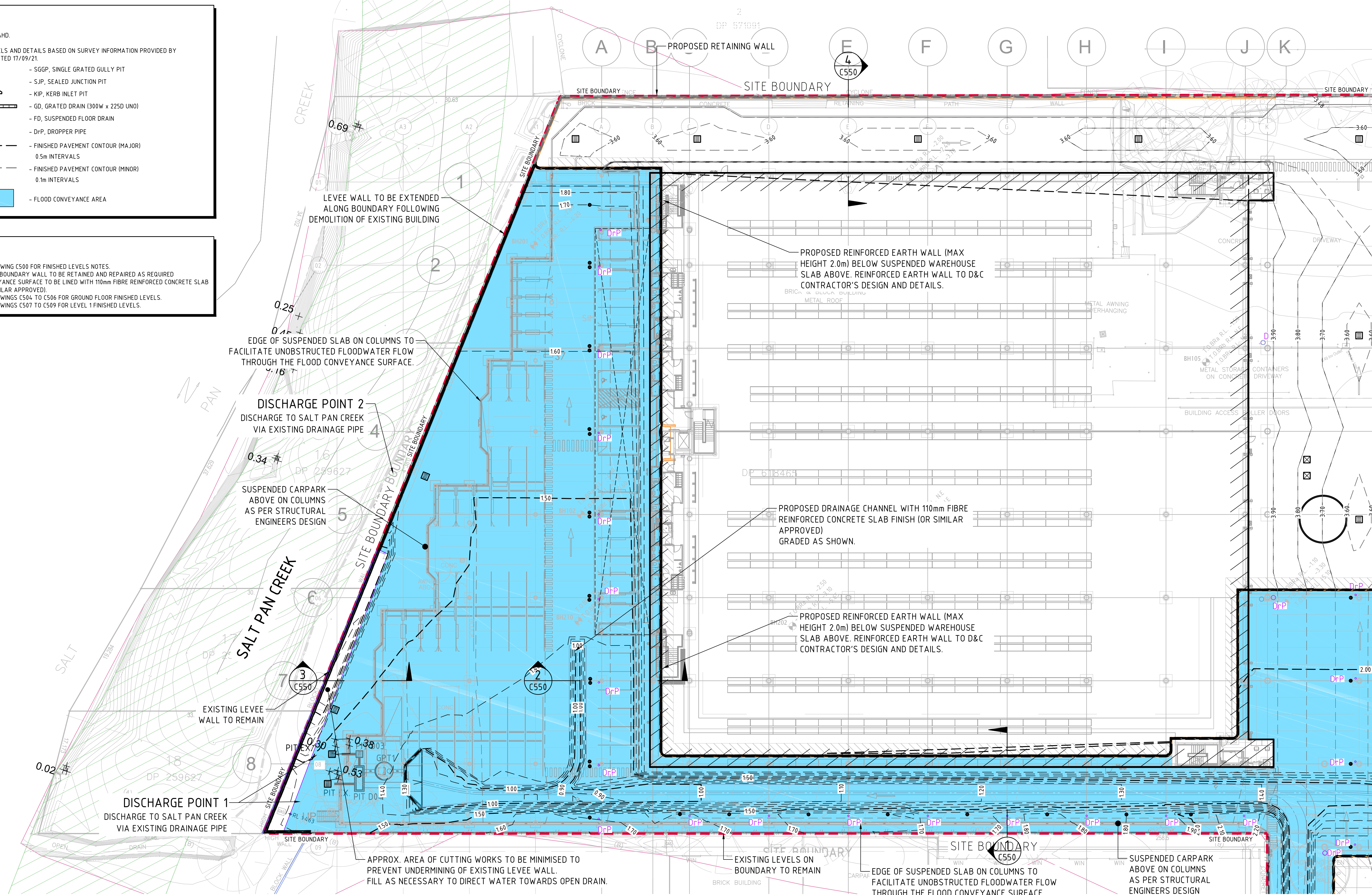
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LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY LANDPARTNERS DATED 17/09/21.

-
- The diagram illustrates a road cross-section with various drainage features. At the top, a grid of squares represents the road surface. Below it, a cross-hatched square represents a sealed junction pit. A horizontal line with a small rectangular protrusion represents a kerb inlet pit. Below the kerb, a series of small squares represent a grated drain. A circular symbol with a horizontal line through it represents a suspended floor drain. A circular symbol with a vertical line through it represents a drP (dropper pipe). Below the drP, two horizontal lines represent finished pavement contours: the top line is labeled '50.00' and the bottom line is labeled '50.10'. A large blue rectangular area at the bottom represents the flood conveyance area.
- SGGP, SINGLE GRATED GULLY PIT
 - SJP, SEALED JUNCTION PIT
 - KIP, KERB INLET PIT
 - GD, GRATED DRAIN (300W x 225D UNO)
 - FD, SUSPENDED FLOOR DRAIN
 - DrP, DROPPER PIPE
 - 50.00 ——— FINISHED PAVEMENT CONTOUR (MAJOR 0.5m INTERVALS)
 - 50.10 ——— FINISHED PAVEMENT CONTOUR (MINOR 0.1m INTERVALS)
 - FLOOD CONVEYANCE AREA

1. REFER TO DRAWING C500 FOR FINISHED LEVELS NOTES.
2. ALL EXISTING BOUNDARY WALL TO BE RETAINED AND REPAIRED AS REQUIRED
3. FLOOD CONVEYANCE SURFACE TO BE LINED WITH 110mm FIBRE REINFORCED CONCRETE SLAB FINISH (OR SIMILAR APPROVED).
4. REFER TO DRAWINGS C504 TO C506 FOR GROUND FLOOR FINISHED LEVELS.
5. REFER TO DRAWINGS C507 TO C509 FOR LEVEL 1 FINISHED LEVELS.



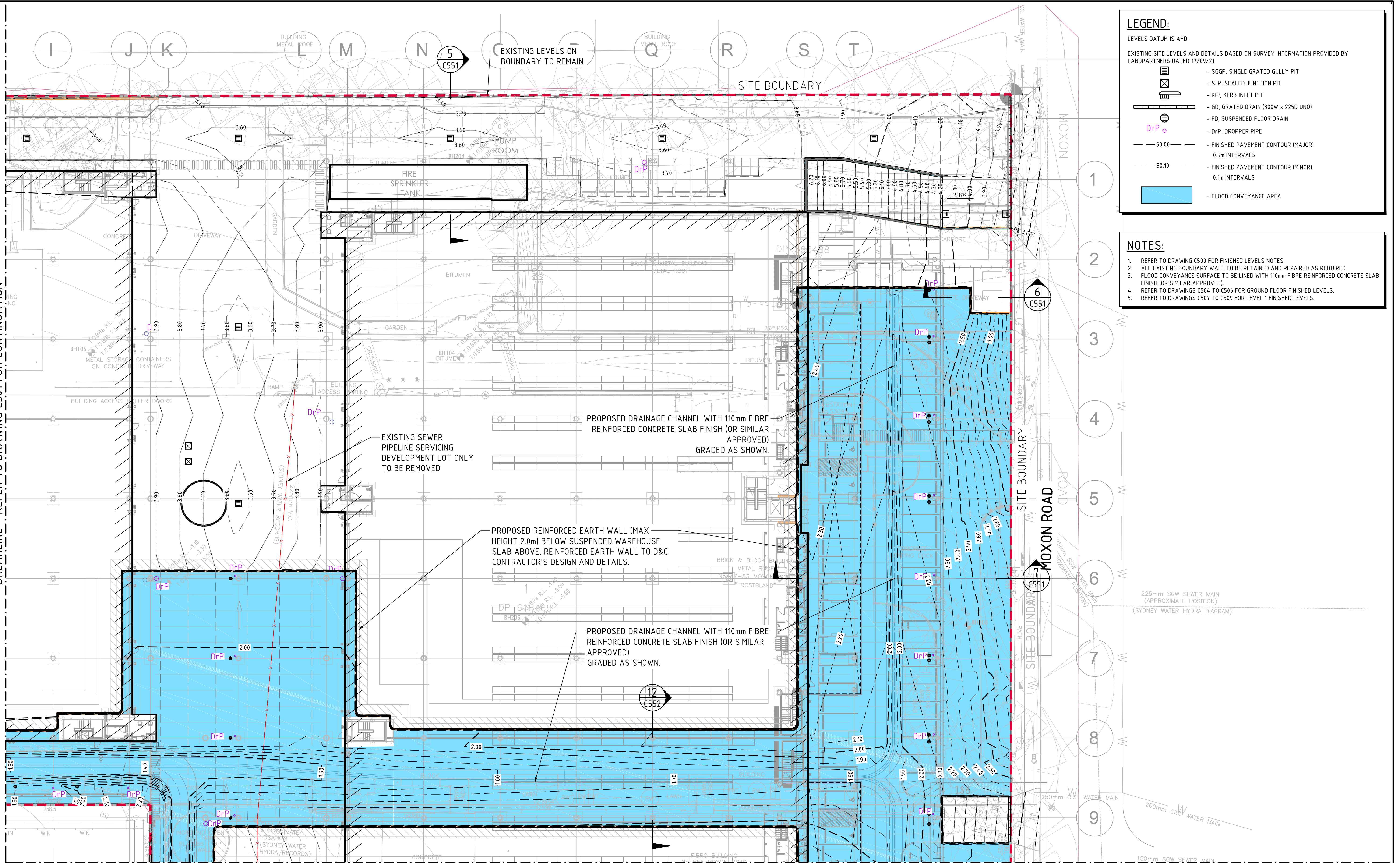
FINISHED LEVELS PLAN - FLOOD STORAGE AREA - SHEET 1
SCALE 1:250

2m 0 5 10 15 20 25m
SCALE 1:250 AT A1 SIZE SHEET

FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION 04.09.24 0 REVISED AS CLOUDED 10.07.24 0 ISSUED FOR CONSTRUCTION APPROVAL 27.06.24 C REVISED AS CLOUDED 31.05.24 B ISSUED FOR CO-ORDINATION 15.04.24 A			ARCHITECT PACE ARCHITECTS			BUILDER / PROJECT MANAGER VAUGHAN CONSTRUCTIONS			PROJECT MOXON ROAD, MULTI LEVEL WAREHOUSE 45-57 MOXON ROAD, PUNCHBOWL NSW, 2196			CONSULT AUSTRALIA			Costin Roe Consulting Pty Ltd. ABN 50 003 696 446 PO Box N419 Sydney NSW 1220 Level 4, 8 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699 f: +61 2 9241 3731 e: mail@costinroe.com.au w: costinroe.com.au			CRC COSTIN ROE CONSULTING CIVIL & STRUCTURAL ENGINEERS			DRAWING TITLE FINISHED LEVELS PLAN FLOOD STORAGE AREA SHEET 1			DRAWING No C013924.02-C501			ISSUE 0		
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BREAKLINE - REFER TO DRAWING C501 FOR CONTINUATION



LEGEND:

LEVELS DATUM IS AHD.

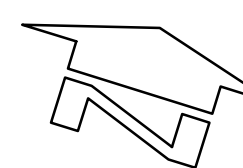
EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY LANDPARTNERS DATED 17/09/21.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- FD, SUSPENDED FLOOR DRAIN
- DrP, DROPPER PIPE
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- FLOOD CONVEYANCE AREA

NOTES:

1. REFER TO DRAWING C500 FOR FINISHED LEVELS NOTES.
2. ALL EXISTING BOUNDARY WALL TO BE RETAINED AND REPAIRED AS REQUIRED
3. FLOOD CONVEYANCE SURFACE TO BE LINED WITH 110mm FIBRE REINFORCED CONCRETE SLAB FINISH (OR SIMILAR APPROVED).
4. REFER TO DRAWINGS C504 TO C506 FOR GROUND FLOOR FINISHED LEVELS.
5. REFER TO DRAWINGS C507 TO C509 FOR LEVEL 1 FINISHED LEVELS.

BREAKLINE - REFER TO DRAWING C503 FOR CONTINUATION



FINISHED LEVELS PLAN - FLOOD STORAGE AREA - SHEET 2

SCALE 1:250

FOR CONSTRUCTION

2m 0 5 10 15 20 25m

SCALE 1:250 AT A1 SIZE SHEET

ISSUED FOR CONSTRUCTION	04.09.24	0
REVISED AS CLOUDED	10.07.24	D
ISSUED FOR CONSTRUCTION APPROVAL	27.06.24	C
REVISED AS CLOUDED	31.05.24	B
ISSUED FOR CO-ORDINATION	15.04.24	A
AMENDMENTS	DATE	ISSUE

ARCHITECT

PACE
ARCHITECTS

BUEBER / PROJECT MANAGER

VAUGHAN
CONSTRUCTIONS

PROJECT
MOXON ROAD, MULTI LEVEL WAREHOUSE
45-57 MOXON ROAD, PUNCHBOWL
NSW, 2196

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF.
AH	RN	MAR '24	DS	A1	AS SHOWN	C013924.02-C502

CONSULT AUSTRALIA

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**CIVIL &
STRUCTURAL
ENGINEERS**

DRAWING TITLE
FINISHED LEVELS PLAN
FLOOD STORAGE AREA
SHEET 2

DRAWING No
C013924.02-C502

ISSUE
0

FINISHED LEVELS PLAN - FLOOD STORAGE AREA - SHEET 3

SCALE 1:250

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY LANDPARTNERS DATED 17/09/21.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- FD, SUSPENDED FLOOR DRAIN
- DrP, DROPPER PIPE
- FINISHED PAVEMENT CONTOUR (MAJOR)
0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR)
0.1m INTERVALS
- FLOOD CONVEYANCE AREA

1. REFER TO DRAWING C500 FOR FINISHED LEVELS NOTES.
2. ALL EXISTING BOUNDARY WALL TO BE RETAINED AND REPAIRED AS REQUIRED
3. FLOOD CONVEYANCE SURFACE TO BE LINED WITH 110mm FIBRE REINFORCED CONCRETE SLAB FINISH (OR SIMILAR APPROVED).
4. REFER TO DRAWINGS C504 TO C506 FOR GROUND FLOOR FINISHED LEVELS.
5. REFER TO DRAWINGS C507 TO C509 FOR LEVEL 1 FINISHED LEVELS.

2m 0 5 10 15 20 25m
SCALE 1:250 AT A1 SIZE SHEET

FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION	04.09.24	0
REVISED AS CLOUDED	10.07.24	D
ISSUED FOR CONSTRUCTION APPROVAL	27.06.24	C
REVISED AS CLOUDED	31.05.24	B
ISSUED FOR CO-ORDINATION	15.04.24	A
AMENDMENTS	DATE	ISSUE

ARCHITECT

PACE
ARCHITECTS

BUILDER / PROJECT MANAGER



VAUGHAN
CONSTRUCTIONS

PROJECT
MOXON ROAD, MULTI LEVEL WAREHOUSE
45-57 MOXON ROAD, PUNCHBOWL
NSW, 2196

DESIGNED AH	DRAWN BN	DATE MAR '24	CHECKED DS	SIZE A1	SCALE AS SHOWN	CAD REF: C013924.02-C503
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STRUCTURAL
ENGINEERS**

DRAWING TITLE
FINISHED LEVELS PLAN
FLOOD STORAGE AREA
SHEET 3

DRAWING No C013924.02-C503

0

LEGEND:

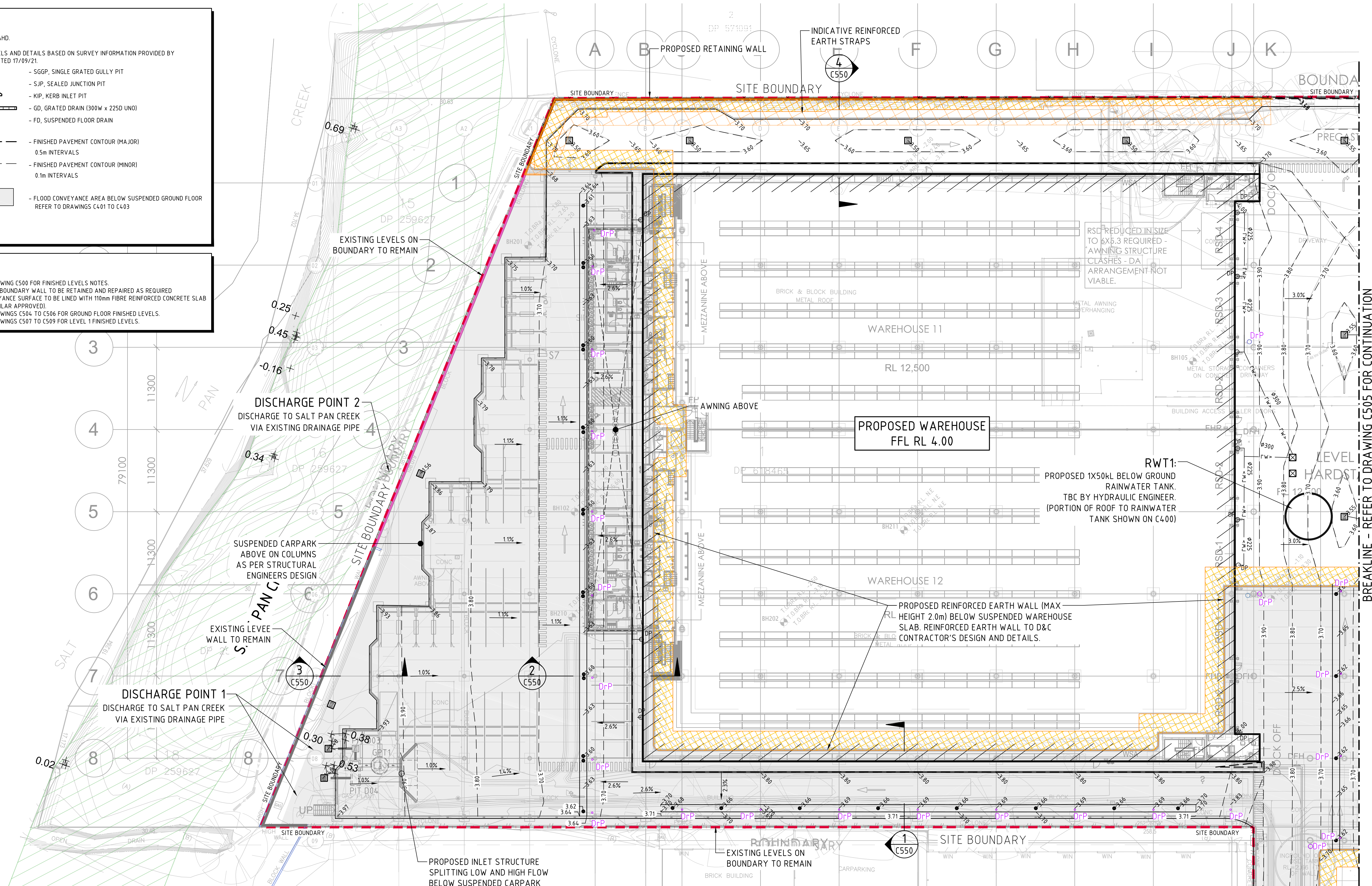
LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY LANDPARTNERS DATED 17/09/21.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- FD, SUSPENDED FLOOR DRAIN
- 50.00 - FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 - FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- FLOOD CONVEYANCE AREA BELOW SUSPENDED GROUND FLOOR REFER TO DRAWINGS C401 TO C403

NOTES:

1. REFER TO DRAWING C500 FOR FINISHED LEVELS NOTES.
2. ALL EXISTING BOUNDARY WALL TO BE RETAINED AND REPAIRED AS REQUIRED
3. FLOOD CONVEYANCE SURFACE TO BE LINED WITH 110mm FIBRE REINFORCED CONCRETE SLAB FINISH (OR SIMILAR APPROVED).
4. REFER TO DRAWINGS C504 TO C506 FOR GROUND FLOOR FINISHED LEVELS.
5. REFER TO DRAWINGS C507 TO C509 FOR LEVEL 1 FINISHED LEVELS.

FINISHED LEVELS PLAN - GROUND FLOOR - SHEET 1
SCALE 1:2502m 0 5 10 15 20 25m
SCALE 1:250 AT A1 SIZE SHEET

FOR CONSTRUCTION

ARCHITECT

PACE
ARCHITECTS

BUILDER / PROJECT MANAGER

VAUGHAN
CONSTRUCTIONSPROJECT
MOXON ROAD, MULTI LEVEL WAREHOUSE
45-57 MOXON ROAD, PUNCHBOWL
NSW, 2196

DESIGNED AH DATE MAR '24 CHECKED DS SIZE A1 SCALE AS SHOWN CAD REF: C013924.02-C504

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COSTIN ROE
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STRUCTURAL
ENGINEERSDRAWING TITLE
FINISHED LEVELS PLAN
GROUND FLOOR
SHEET 1

DRAWING No C013924.02-C504

ISSUE
0

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY LANDPARTNERS DATED 17/09/21.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
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- 50.00 - FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 - FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- FLOOD CONVEYANCE AREA BELOW SUSPENDED GROUND FLOOR REFER TO DRAWINGS C401 TO C403

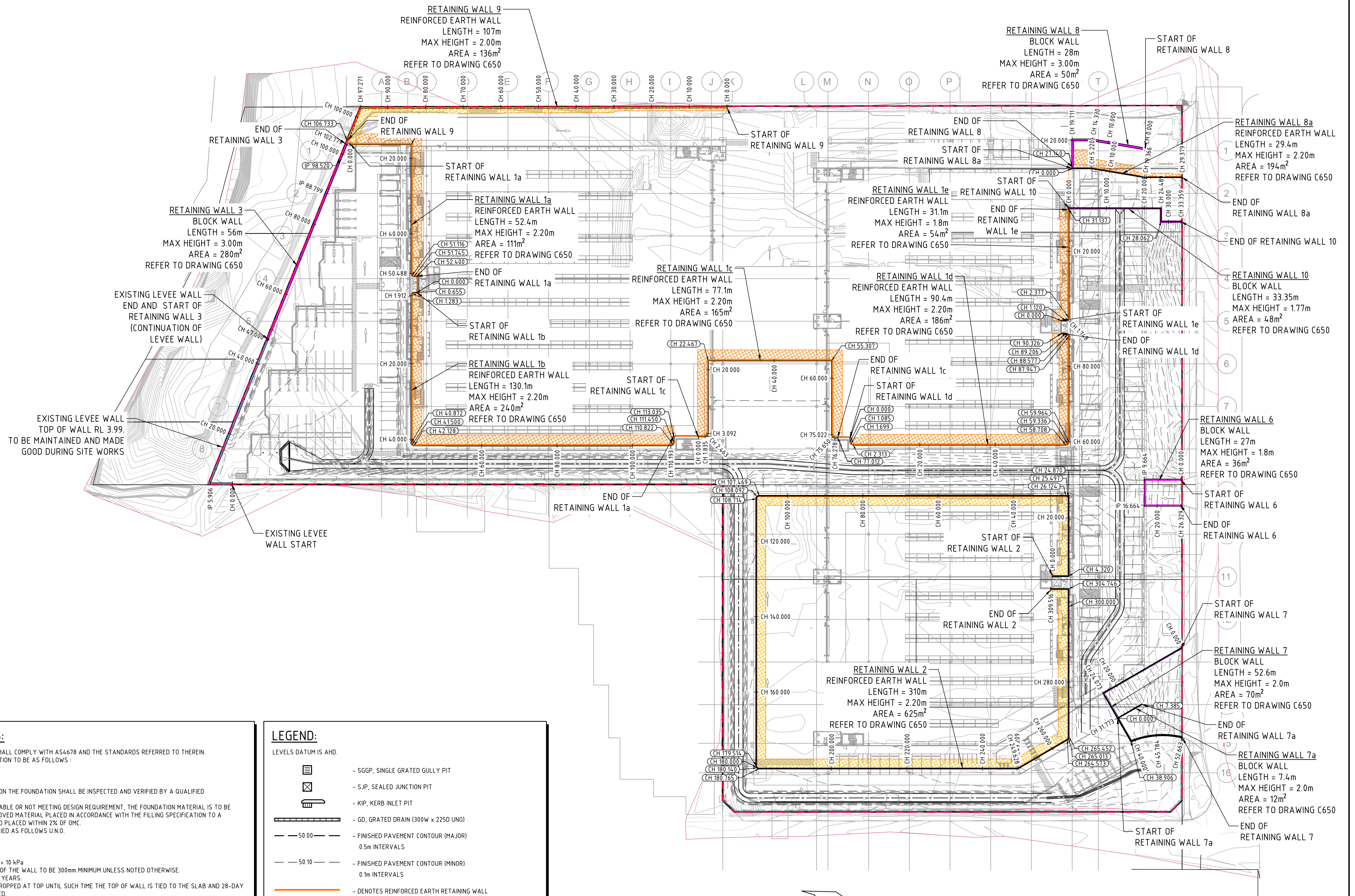
NOTES:

1. REFER TO DRAWING C500 FOR FINISHED LEVELS NOTES.
2. ALL EXISTING BOUNDARY WALL TO BE RETAINED AND REPAIRED AS REQUIRED
3. FLOOD CONVEYANCE SURFACE TO BE LINED WITH 110mm FIBRE REINFORCED CONCRETE SLAB FINISH (OR SIMILAR APPROVED).
4. REFER TO DRAWINGS C504 TO C506 FOR GROUND FLOOR FINISHED LEVELS.
5. REFER TO DRAWINGS C507 TO C509 FOR LEVEL 1 FINISHED LEVELS.

FINISHED LEVELS PLAN - GROUND FLOOR - SHEET 3
SCALE 1:250

2m 0 5 10 15 20 25m
SCALE 1:250 AT A1 SIZE SHEET

			ARCHITECT		BUILDER / PROJECT MANAGER		PROJECT						Costin Roe Consulting Pty Ltd. ABN 50 003 696 446 PO Box N419 Sydney NSW 1220 Level 4, 8 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699 f: +61 2 9241 3731 e: mail@costinroe.com.au w: costinroe.com.au		 		DRAWING TITLE	
							MOXON ROAD, MULTI LEVEL WAREHOUSE 45-57 MOXON ROAD, PUNCHBOWL NSW, 2196										FINISHED LEVELS PLAN GROUND FLOOR SHEET 3	
ISSUED FOR CONSTRUCTION			04.09.24	0			DESIGNED		AH	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:	DRAWING No		
REVISED AS CLOUDED			10.07.24	B			RN			MAR '24		DS	A1	AS SHOWN	C013924.02-506	C013924.02-C506		
ISSUED FOR CONSTRUCTION APPROVAL			27.06.24	A												ISSUE		
AMENDMENTS			DATE	ISSUE												0		



RETAINING WALL NOTES:

- ALL COMPONENTS AND INSTALLATION SHALL COMPLY WITH AS4678 AND THE STANDARDS REFERRED TO THEREIN.
- MINIMUM BEARING CAPACITY OF FOUNDATION TO BE AS FOLLOWS:
 - H MAX. 2.0m = 100 kPa
 - H MAX. 3.5m = 150 kPa
 - H MAX. 5.0m = 200 kPa
- BEFORE COMMENCEMENT OF CONSTRUCTION THE FOUNDATION SHALL BE INSPECTED AND VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER.
- WHERE MINIMUM BEARING IS NOT ACHIEVABLE OR NOT MEETING DESIGN REQUIREMENT, THE FOUNDATION MATERIAL IS TO BE EXCAVATED AND REPLACED WITH APPROVED MATERIAL PLACED IN ACCORDANCE WITH THE FILLING SPECIFICATION TO A MINIMUM COMPACTION OF 100% SMDD AND PLACED WITHIN 2% OF OMC.
- MINIMUM SURCHARGE LOADS TO BE APPLIED AS FOLLOWS U.N.O.
ON PLAN:
 - LIVE LOAD = 20 kPa
 - DEAD LOAD = 5 kPa
 - CONSTRUCTION TRAFFIC LIVE LOAD = 10 kPa
- MINIMUM WALL EMBEDMENT AT THE TOE OF THE WALL TO BE 300mm MINIMUM UNLESS NOTED OTHERWISE.
- DESIGN LIFE OF STRUCTURE IS TO BE 100 YEARS.
- TIED WALLS ARE TO BE TEMPORARILY PROPPED AT TOP UNTIL SUCH TIME THE TOP OF WALL IS TIED TO THE SLAB AND 28-DAY CONCRETE STRENGTH HAS BEEN ACHIEVED.
- CONSTRUCTION EQUIPMENT WEIGHING MORE THAN 500KG STATIC WEIGHT IS TO BE KEPT BACK 15m FROM THE REAR FACE OF THE WALL FACING UNITS. COMPACTION OF THE SELECT FILL MATERIAL WITHIN THE 15m STRIP ADJACENT TO THE WALL SHALL BE ACHIEVED BY LIGHT MECHANICAL TAMPERS (VIBRATING PLATE, TRENCH COMPACTOR OR SIMILAR) TO GIVE THE SAME DENSITY AS IN THE REMAINDER OF THE SELECT FILL.
- ALL DESIGN AND CONSTRUCT WALL SYSTEM TO BE COMPLETED IN ACCORDANCE WITH THESE NOTES.
- WALL ELEVATIONS ALLOW FOR NOMINAL EMBEDMENT DEPTHS. WHERE DESIGN AND CONSTRUCT (D+G) WALL SYSTEMS ARE PROPOSED IT IS THE CONTRACTORS RESPONSIBILITY TO ALLOW FOR THE FINAL EMBEDMENT DEPTHS AS PER THE D+G DESIGN. ALLOWANCE FOR OVERALL WALL AREAS TO CONSIDER THE FINAL EMBEDMENT DEPTH.
- WALL ELEVATIONS AND AREAS ARE BASED ON THE VERTICAL PLAN AREA. CONTRACTOR TO ALLOW ADDITIONAL SURFACE AREA WHERE WALLS ARE NOT VERTICAL OR HAVE BACKSLOPES.

LEGEND:

LEVELS DATUM IS AHD.

- | | |
|--|---|
| | - SGGP, SINGLE GRATED GULLY PIT |
| | - SJP, SEALED JUNCTION PIT |
| | - KIP, KERB INLET PIT |
| | - GD, GRATED DRAIN (300W x 225D UNO) |
| | - FINISHED PAVEMENT CONTOUR (MAJOR)
0.5m INTERVALS |
| | - FINISHED PAVEMENT CONTOUR (MINOR)
0.1m INTERVALS |
| | - DENOTES REINFORCED EARTH RETAINING WALL |
| | - DENOTES BLOCK WALL RETAINING WALL |
| | - DENOTES EXISTING LEVEE WALL |
| | - DENOTES REINFORCED EARTH WALL STRAPS |

RETAINING WALL LAYOUT PLAN
SCALE 1:500

5m 0 10 20 30 40 50m
SCALE 1:500 AT A1 SIZE SHEET

FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION	04.09.24	0
ISSUED FOR CONSTRUCTION APPROVAL	10.07.24	F
ISSUED FOR CONSTRUCTION APPROVAL	28.06.24	E
REVISED AS CLOUDED	31.05.24	D
REVISED AS CLOUDED	24.05.24	C
ISSUED FOR CO-ORDINATION	26.04.24	B
AMENDMENTS	DATE	ISSUE

ARCHITECT

PACE
ARCHITECTS

BUILDER / PROJECT MANAGER

VAUGHAN
CONSTRUCTIONS

PROJECT
MOXON ROAD, MULTI LEVEL WAREHOUSE
45-57 MOXON ROAD, PUNCHBOWL
NSW, 2196

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF.
AH	RN	MAR '24	DS	A1	AS SHOWN	C013924.02-C600

CONSULT AUSTRALIA

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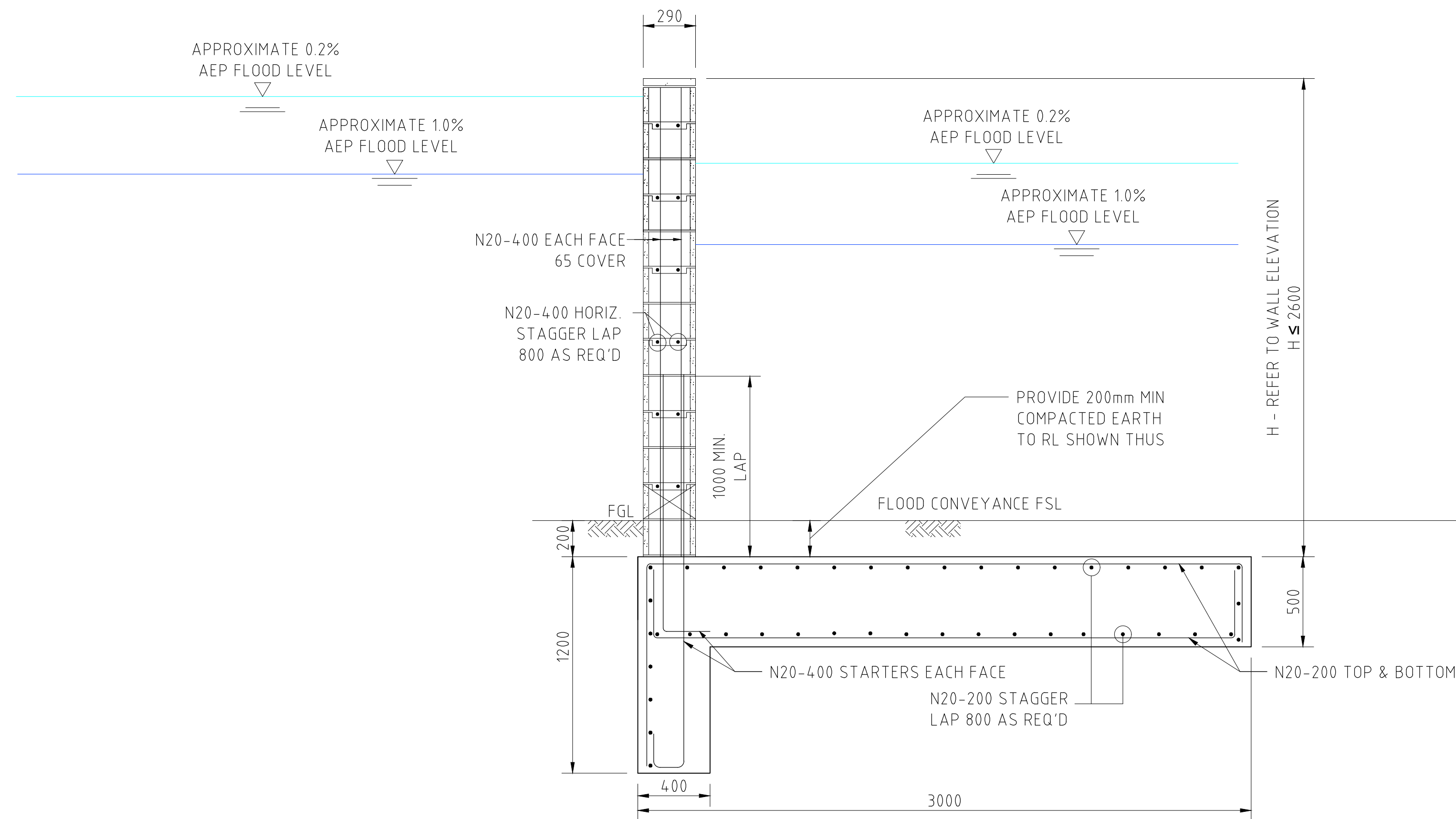
CRC
COSTIN ROE
CONSULTING

**CIVIL &
STRUCTURAL
ENGINEERS**

DRAWING TITLE
RETAINING WALL LAYOUT PLAN

DRAWING No
C013924.02-C600

ISSUE
0



NOTE:
COVER TO ALL BASE REINFORCEMENT TO BE MINIMUM 50mm

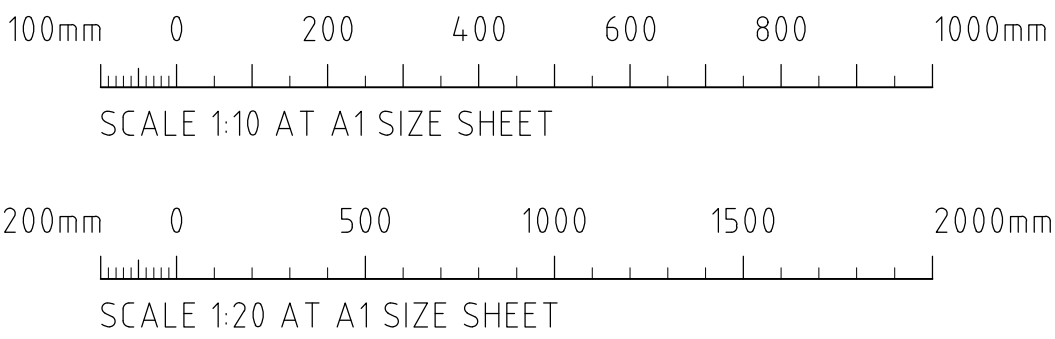
REFERENCE SHOULD BE MADE TO THE RETAINING WALL NOTES ON DRAWING C013924.02-C600.

FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 150kPa AND SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER FOR THIS CAPACITY BEFORE PLACING REINFORCEMENT OR CONCRETE.

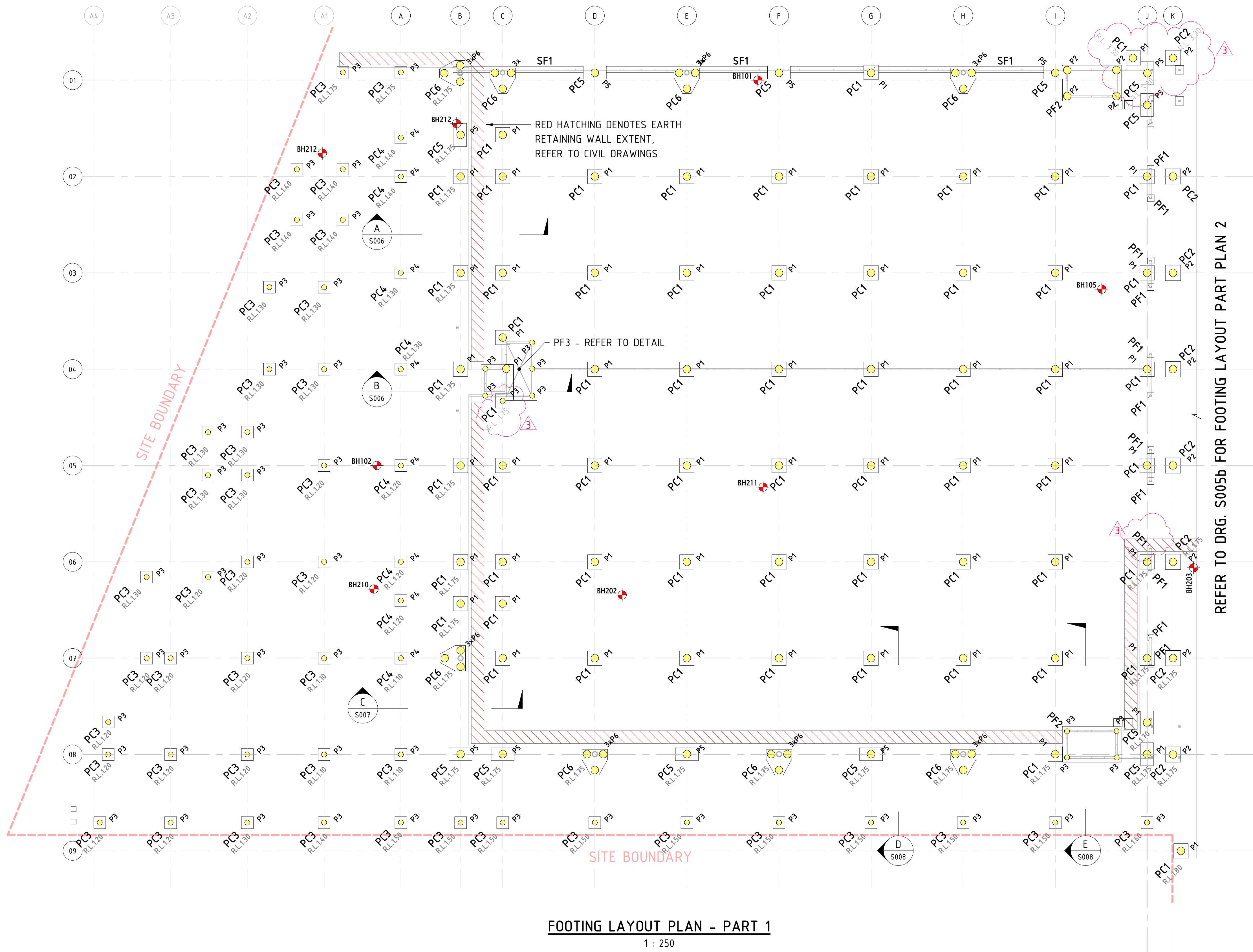
IF THE FOOTINGS ARE FOUND TO BE WITHIN ALLUVIUM (REFERENCE PSM REPORT PSM4771-106R), A DESIGN MODIFICATION WOULD BE REQUIRED. CONTACT COSTIN ROE CONSULTING FOR DESIGN ADVICE.

LEVEE WALL RW05 - TYPICAL DETAIL
SCALE 1:20

CONCRETE QUALITY					
ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	ADMIXTURE	F'c (MPa)
CORE FILL	230	10	GP	NIL	20
FOOTING	80	20	GP	NIL	32

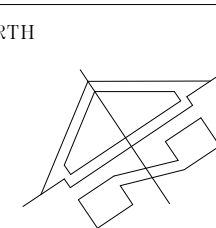


FOR INFORMATION



PILE CAP ORIENTATION AND RL UPDATED	29.08.24	3
PILE CAPS REVISED	09.08.24	2
SCHEDULE UPDATE - PILE CAPS LOCATIONS REVISED	02.08.24	1
ISSUED FOR CONSTRUCTION	01.07.24	0
PILE TYPES REVISED	01.05.24	0
FOOTING ARRANGEMENT REVISED TO SUIT NEW COLUMN LOCATIONS, RL'S UPDATED	12.04.24	C
FOOTING SIZES REVISED EARTH RETAINING WALL ADDED	05.04.24	B
ISSUED FOR CO-ORDINATION - FOOTING LOCATIONS REVISED	29.03.24	A
AMENDMENTS	DATE	ISSUE

NORTH



ARCHITECT



BUILDER

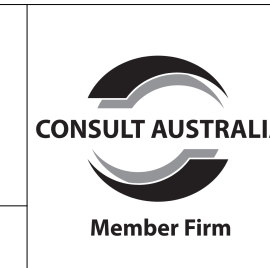


CLIENT



PROJECT
MOXON ROAD - MULTI LEVEL
45 - 57 MOXON ROAD, PUNCHBOWL, N.S.W. 2196

DESIGNED	DRAWN	DATE	SIZE	SCALE	CAD REF.
F.T.	M.V.H.	MAR. 24	A0	AS NOTED	C013924.02 - S005a



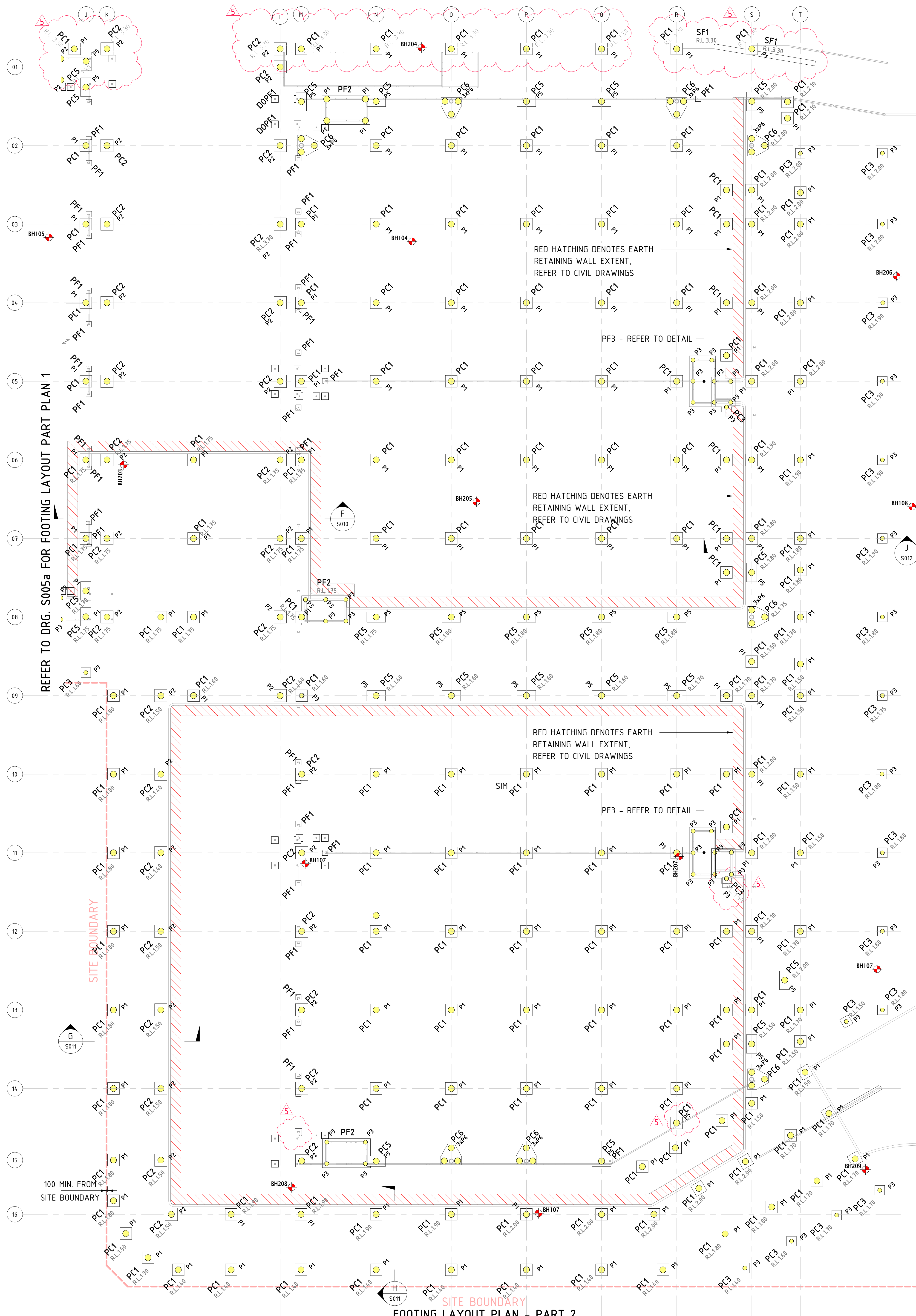
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DRAWING TITLE FOOTING LAYOUT PART PLAN - SHEET 1	DRAWING NO. C013924.02 - S005a	ISSUE 3
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FOR CONSTRUCTION

2m 0 5 10 15 20 25m
SCALE 1:250 AT A0 SIZE SHEET



FOOTING LAYOUT PLAN - PART 2

1 : 250

PILE CAP SCHEDULE						
FOOTING SIZE				REINFORCEMENT		
TAG	L	W	D	PILES	BOTTOM	TOP
PC1	1700	1700	1000	1xP1	N20-200 EW	N16-200 EW
PC2	1800	1800	1200	1xP2	N20-200 EW	N16-200 EW
PC3	1400	1400	1000	1xP3	N20-200 EW	N16-200 EW
PC4	1400	1400	1000	1xP4	N20-200 EW	N16-200 EW
PC5	2700	1500	1500	1xP5	N24-200 EW	N16-200 EW
PC6	REFER TO DETAIL			3xP6	N24-200 EW	N16-200 EW

PAD FOOTING SCHEDULE					
FOOTING SIZE			REINFORCEMENT		
TAG	L	B	D	BOTTOM	TOP
PF1	800	800	600	MASS CONCRETE	
PF2	6950	4200	800	N20-200 E.W.	N16-200 E.W.
PF3	#1			N20-200 E.W.	N16-200 E.W.

#1 - REFER TO PLAN FOR DIMENSIONS OF FOOTING

PILE SCHEDULE					
TAG	PILE SIZE			REINFORCEMENT	
	DIA.(mm)	ESTIMATED PILE DEPTH (m)	MIN. SOCKET DEPTH INTO BED ROCK UNIT 'B'	VERTICAL	TIES
P1	900	6.0 MIN.	0.9m	7N28	N12-220 CLOSED
P2	900	8.0 MIN.	2.0m	8N28	N12-220 CLOSED
P3	600	5.9 MIN.	0.9m	8N20	N12-220 CLOSED
P4	600	5.7 MIN.	0.7m	8N80	N12-220 CLOSED
P5	900	8.5 MIN.	3.5m	12N32	N12-220 CLOSED
P6	900	6.5 MIN.	1.5m	14N32	N12-220 CLOSED

CONCRETE QUALITY					
ELEMENT	SLUMP	AGGREGATE (MAX SIZE)	CEMENT TYPE	ADMIXTURE	F'c (MPa)
FOOTINGS	80	20	GP	NIL	40
PILES	80	20	GP	NIL	40
NOMINAL 56 DAY SHRINKAGE 650 MICROSTRAIN					

GEOTECHNICAL INVESTIGATIONS :

REFER TO GEOTECHNICAL INVESTIGATION REPORT :
REPORT No. PSM4771-102L REV.2
PREPARED BY : PSM
DATED : 28 MARCH 2023

REFER TO ADDITIONAL GEOTECHNICAL INVESTIGATION REPORT :
REPORT No. PSM4771-106R
PREPARED BY : PSM
DATED : 23 OCTOBER 2023

BEDROCK NOTE :

BEDROCK A: - EXTREMELY WEATHERED TO HIGHLY WEATHERED, VERY LOW TO LOW STRENGTH SILTSTONE, OCCASIONAL SANDSTONE LAMINATIONS - 1 MPa ALLOWABLE BEARING PRESSURE AND 100 kPa SKIN FRICTION

BEDROCK B: - MODERATELY WEATHERED TO FRESH, LOW TO MEDIUM STRENGTH SILTSTONE - 3.0 MPa ALLOWABLE BEARING PRESSURE AND 300 kPa SKIN FRICTION

BEDROCK C: - MODERATELY WEATHERED TO FRESH, MEDIUM TO HIGH STRENGTH SILTSTONE LAMINATE - 5.0 MPa ALLOWABLE BEARING PRESSURE & 500 kPa SKIN FRICTION

NOTE :

MINIMUM SOCKET DEPTH NOTED TO BE IN BEDROCK B LAYER WITH 3.0 MPa ALLOWABLE BEARING PRESSURE AND 300 kPa SKIN FRICTION

LEGEND

- DENOTES LOAD BEARING ELEMENTS UNDER
- DENOTES BORE HOLE LOCATIONS

FOR CONSTRUCTION

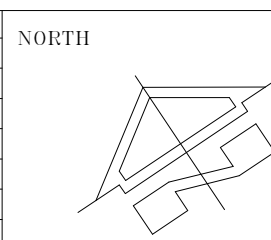
2m 0 5 10 15 20 25m
SCALE 1:250 AT A0 SIZE SHEET

FOOTING MOVED CENTRAL TO PFC DOOR COLUMN, PC1 RL UPDATED	29.08.24	5
PILE CAPS REVISED	09.08.24	4
PAD FOOTING ARRANGEMENT REVISED	02.08.24	3
PF1 ADDED FOR GRT SUPPORT COL	26.07.24	2
ISSUED FOR CONSTRUCTION - SECTIONS ADDED	12.07.24	1
ISSUED FOR CONSTRUCTION	07.07.24	0
ISSUED FOR CO-ORDINATION	07.06.24	8
ISSUED FOR CO-ORDINATION	01.05.24	4
AMENDMENTS	DATE	ISSUE

AMENDMENTS

DATE

ISSUE



ARCHITECT



BUILDER



CLIENT



PROJECT
MOXON ROAD - MULTI LEVEL
45 - 57 MOXON ROAD, PUNCHBOWL, N.S.W. 2196

DESIGNED	DRAWN	DATE	SIZE	SCALE	CAD REF.
F.T.	M.V.H.	APRIL 24	A0	AS NOTED	C013924.02 - S005b



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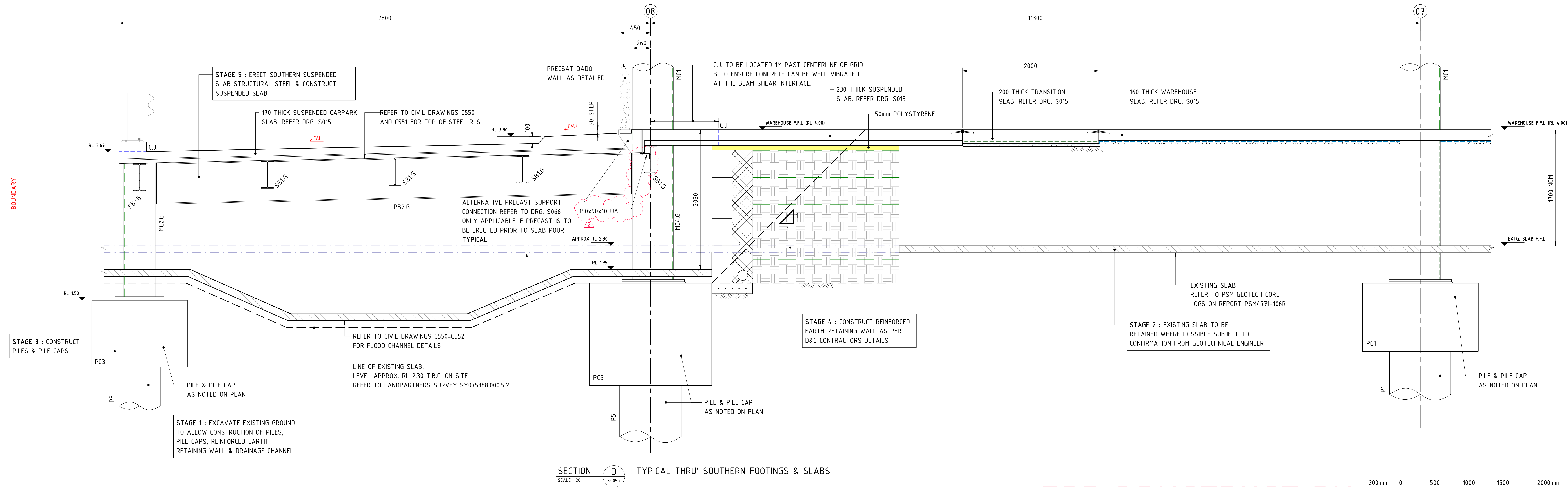


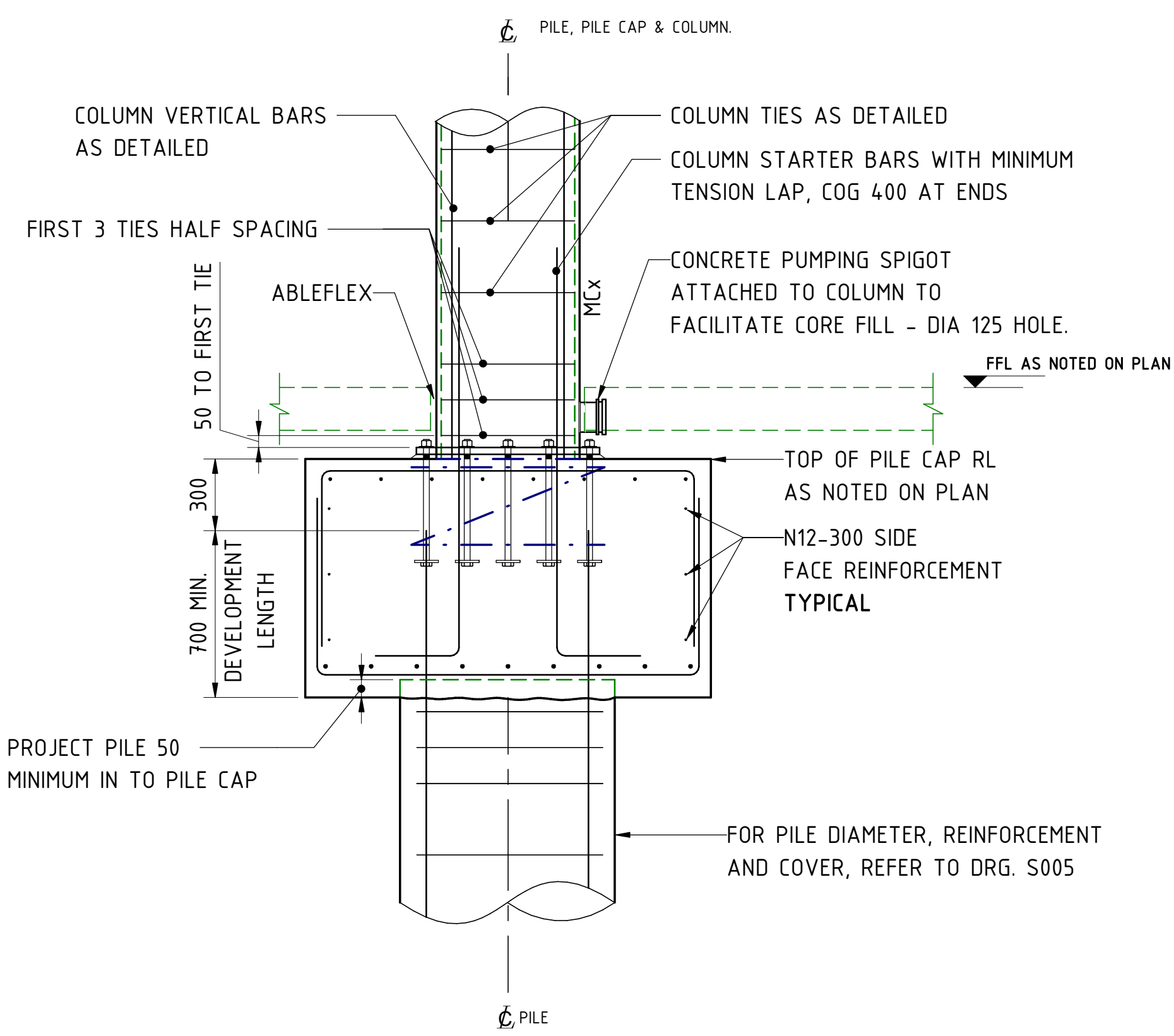
DRAWING TITLE FOOTING LAYOUT PART PLAN - SHEET	ISSUE
2	5
DRAWING No. C013924.02 - S005b	



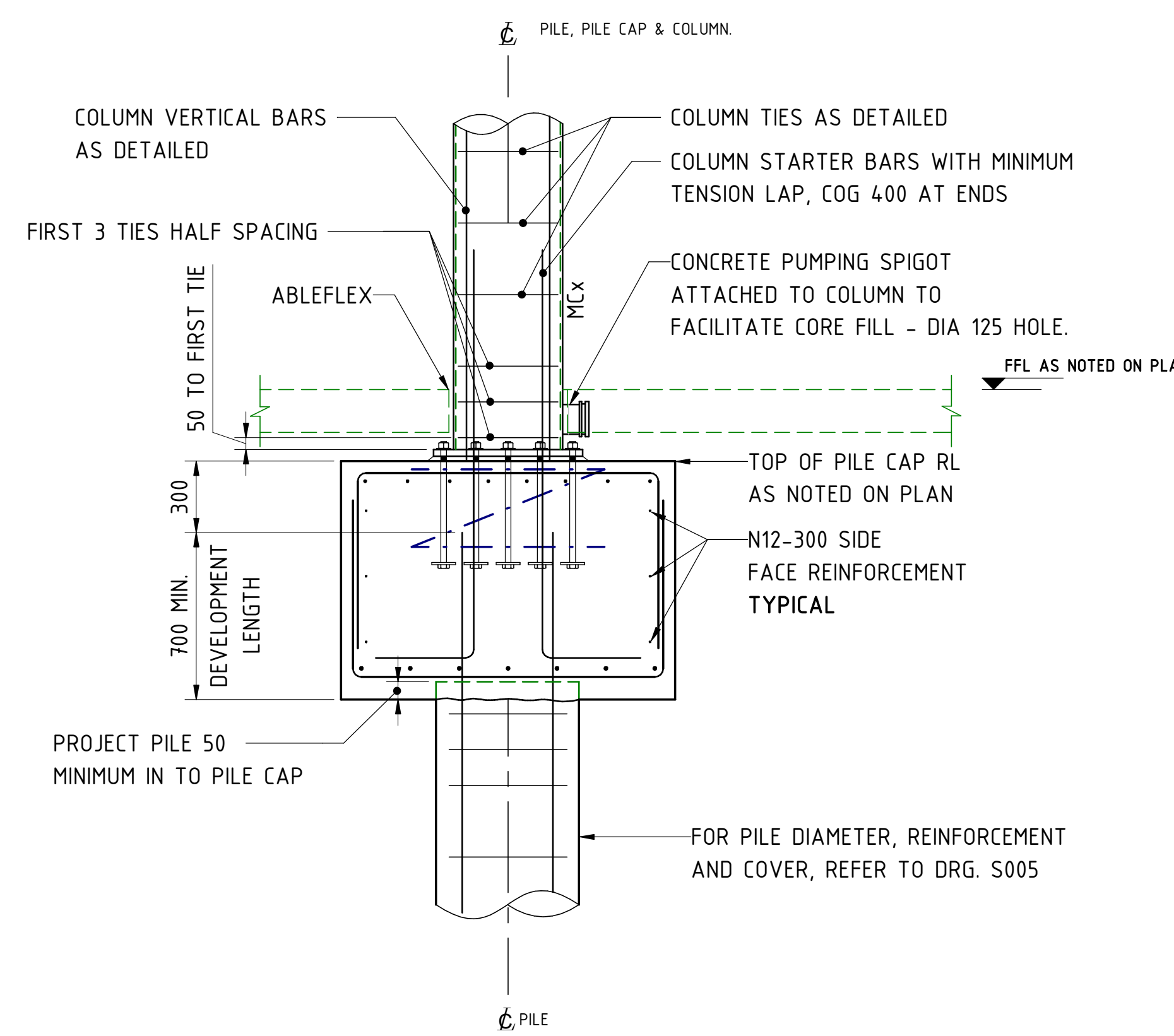
200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT A0 SIZE SHEET

			NORTH		ARCHITECT		BUILDER		CLIENT		PROJECT		CONSULT AUSTRALIA		Costin Roe Consulting Pty Ltd. ABN 50 033 896 446		CRC CIVIL & STRUCTURAL ENGINEERS		DRAWING TITLE FOOTING DETAILS - SHEET 2									
ADDITIONAL NOTES ADDED AND UPDATED			19.07.24		I						MOXON ROAD - MULTI LEVEL 45 - 57 MOXON ROAD, PUNCHBOWL, N.S.W. 2196				PO Box 1419 Sydney NSW 1220 Level 4, 3 Woodmill Street, Millers Point NSW 2000 p:+61 2 9251 7699 e:mail@costinroe.com.au		w:costin.roe.com.au											
ISSUED FOR CONSTRUCTION			01.07.24		O																							
ISSUED FOR CO-ORDINATION - DETAIL SECTIONS UPDATED			21.06.24		X																							
ISSUED FOR CO-ORDINATION - DETAIL SECTIONS UPDATED			05.04.24		B																							
ISSUED FOR TENDER			02.11.23		A																							
AMENDMENTS			DATE		ISSUE		AMENDMENTS		DATE		ISSUE		DISCUSSED F.T.		DRAWN B.V.H./B.C.		DATE OCT 2023		SIZE A0		SCALE AS NOTED		CAR REF C013924.02 - S007		MEMBER FIRM		ISSUE 1	

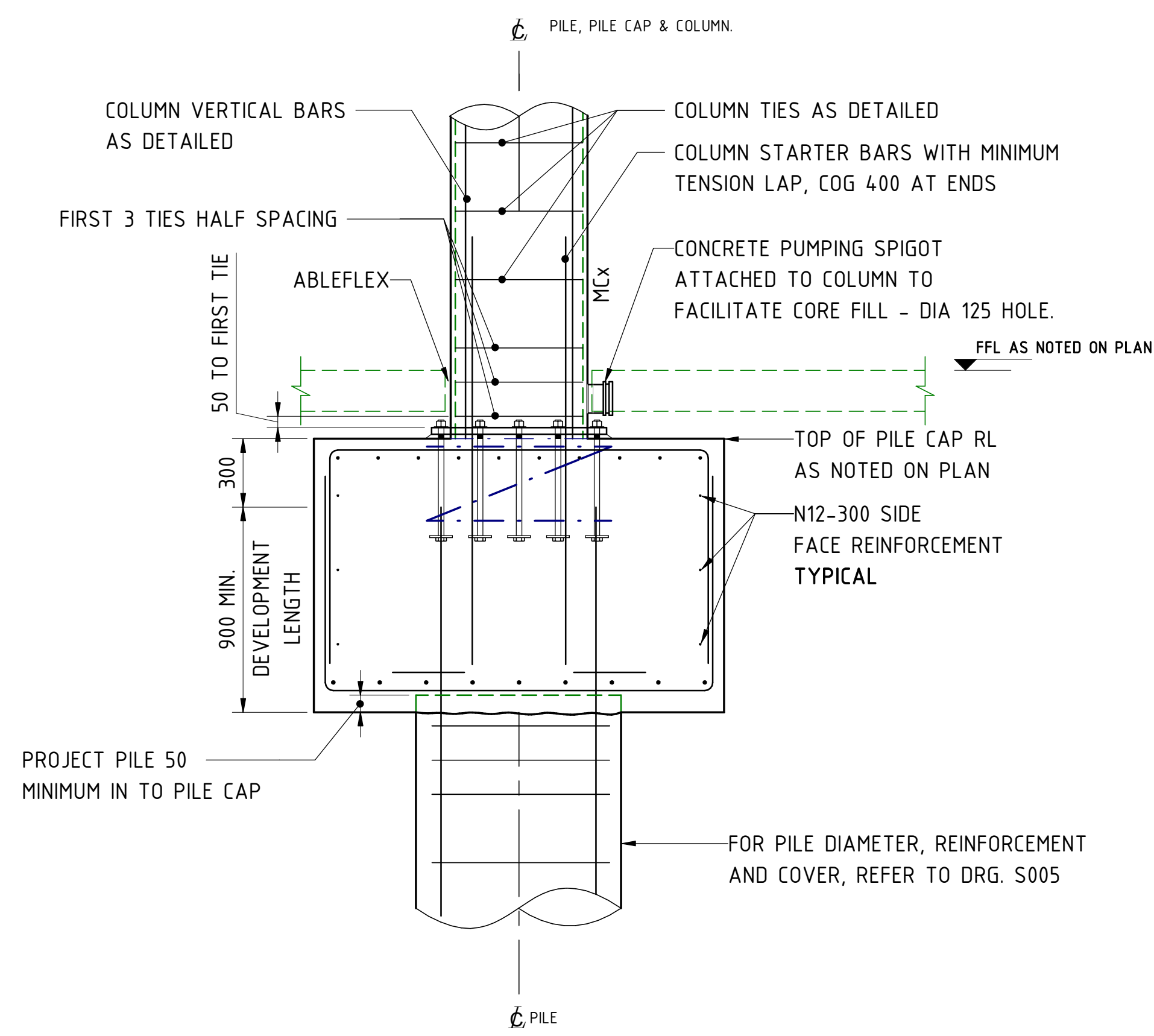




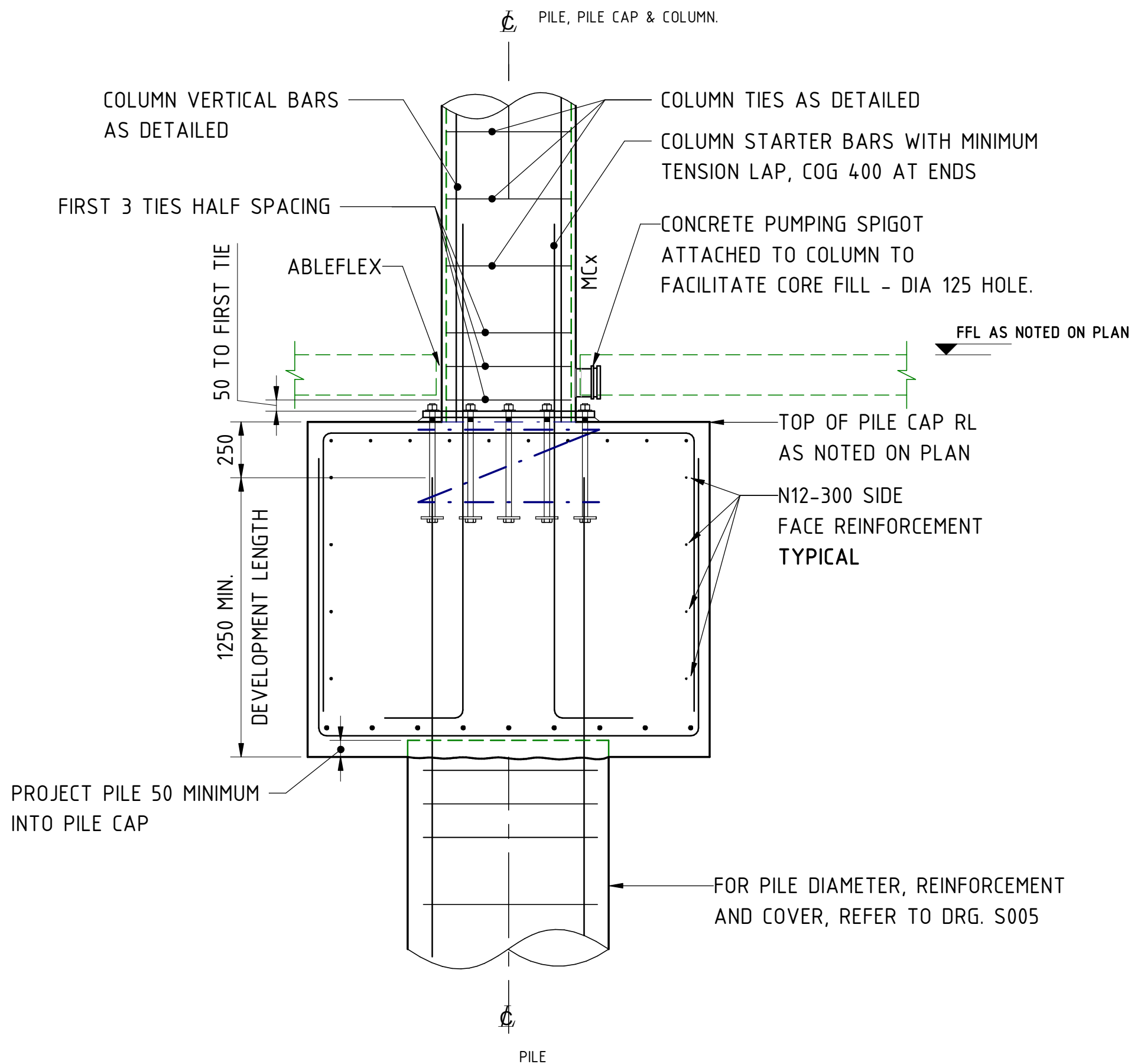
REFER TO S110 FOR COLUMN H.D. BOLTS AND CONCRETE PUMPING DETAILS
PILE CAP PC1 TO COLUMN MCx START ELEVATION DETAIL
SCALE 1 : 20



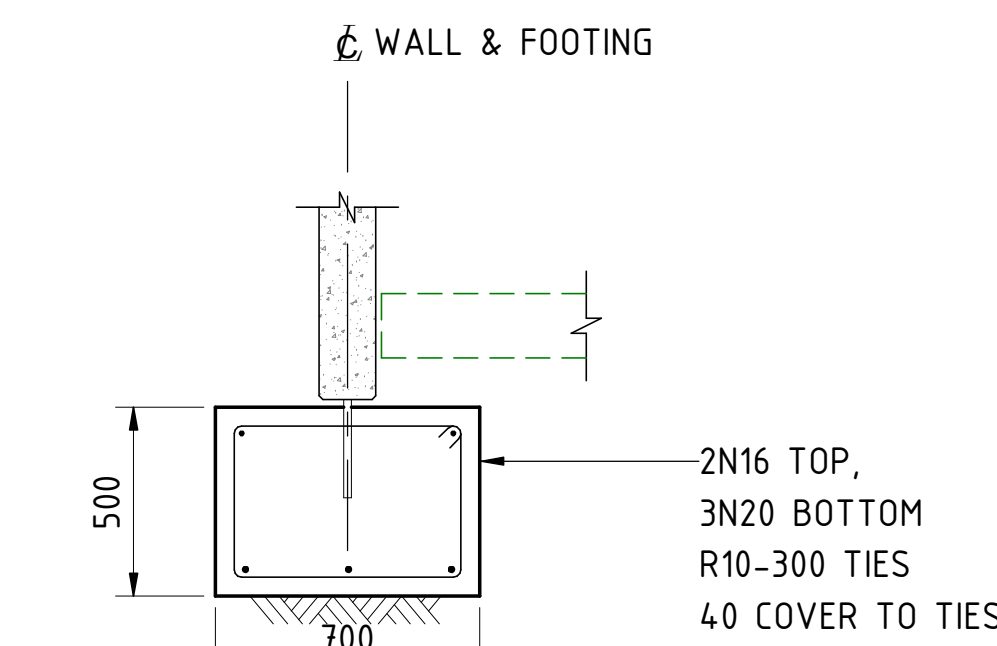
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PILE CAP PC3/4 TO COLUMN MCx START ELEVATION DETAIL
SCALE 1 : 20



REFER TO S110 FOR COLUMN H.D. BOLTS AND CONCRETE PUMPING DETAILS
PILE CAP PC2 TO COLUMN MCx START ELEVATION DETAIL
SCALE 1 : 20

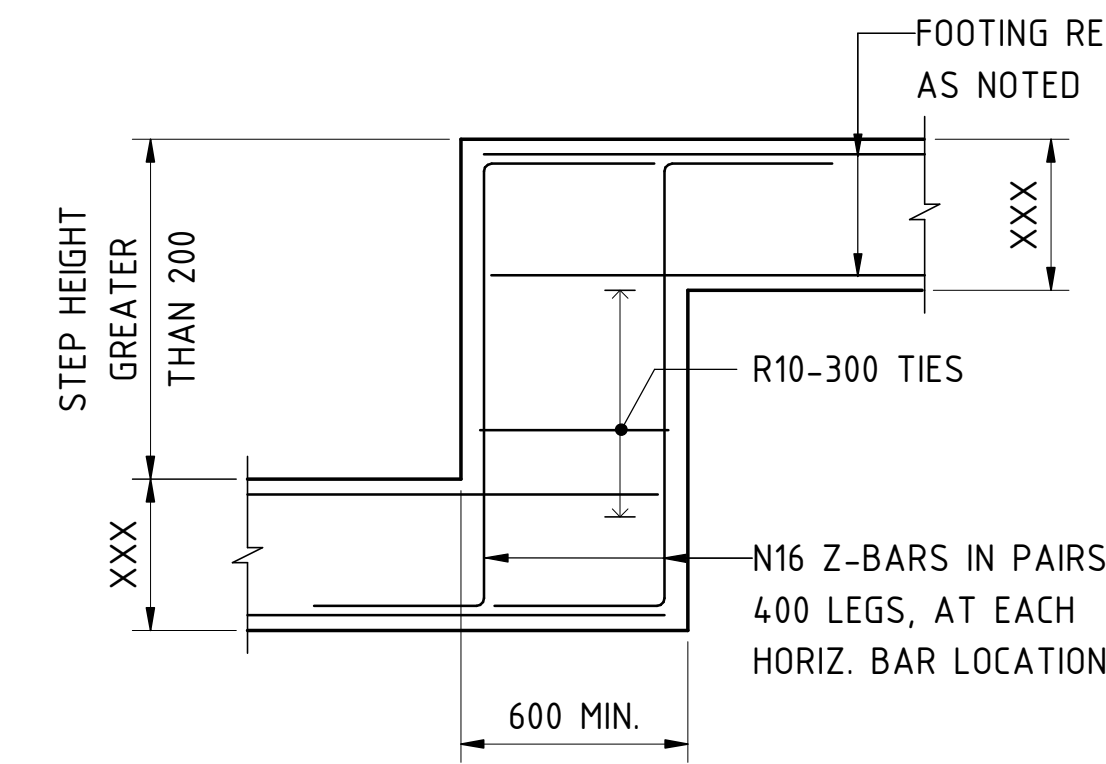


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PILE CAP PC5 TO COLUMN MCx START ELEVATION DETAIL
SCALE 1 : 20

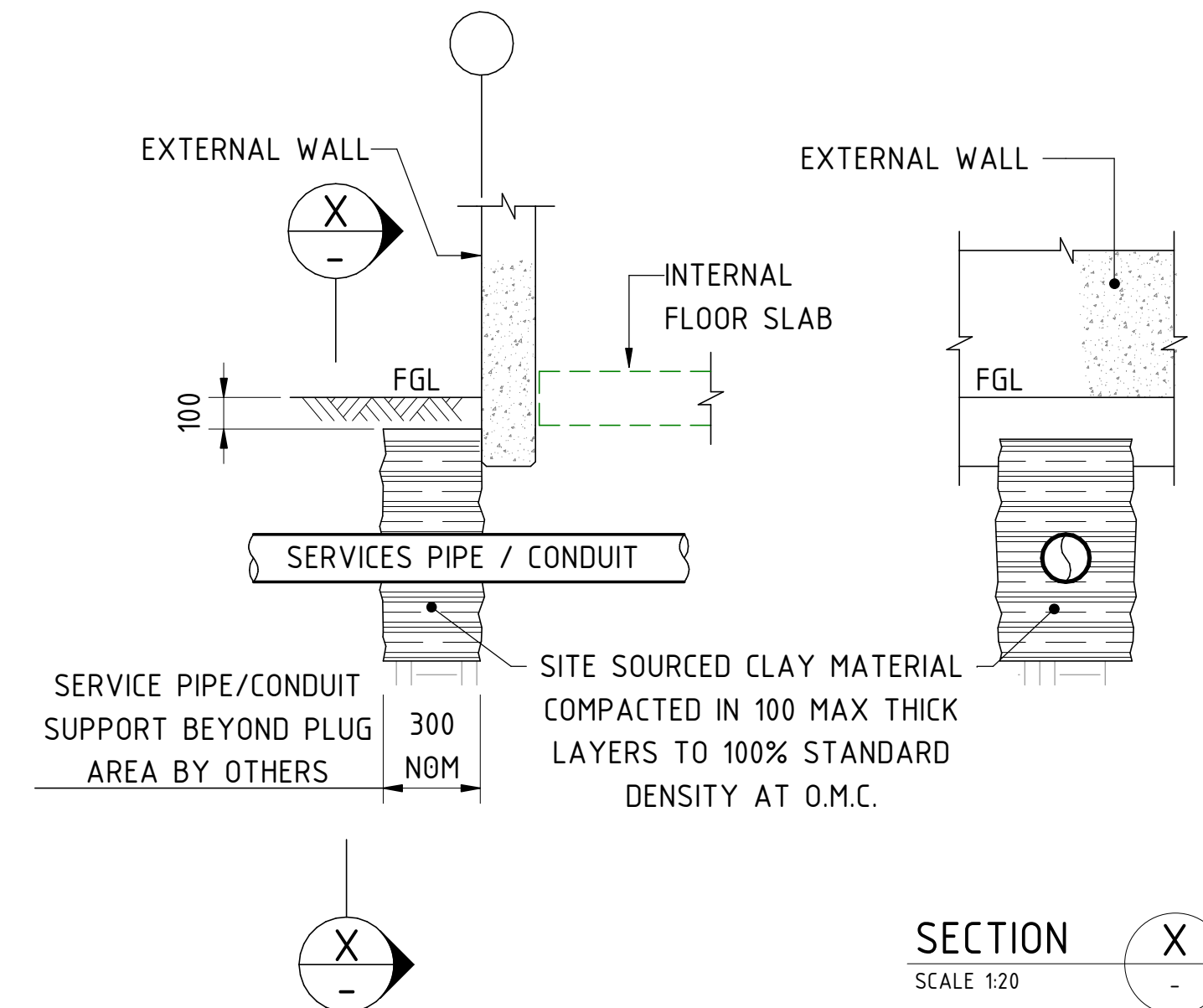


STRIP FOOTING SF1 DETAIL

SCALE 1:20
TOP & BOTTOM BARS TO
EXTEND 500 MIN. INTO
FOOTINGS

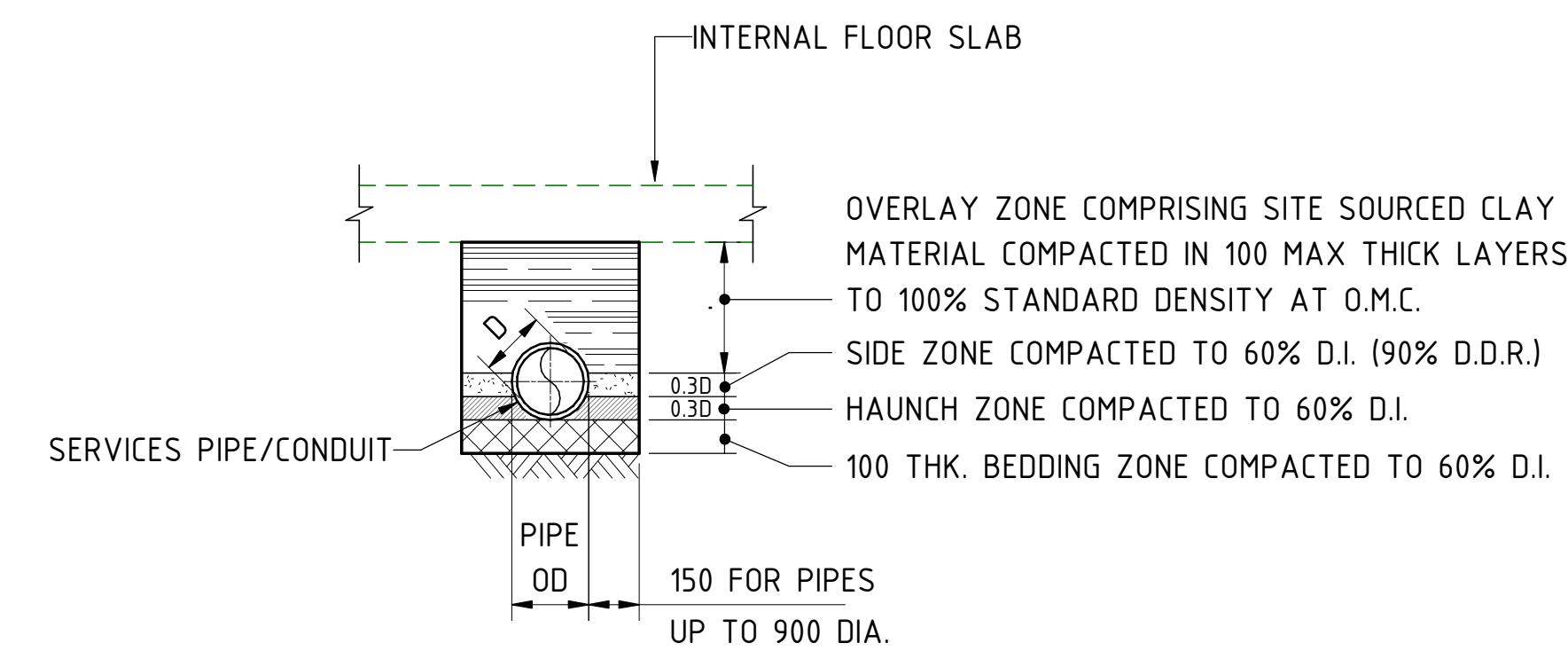


STRIP FOOTING STEP DETAILS
SCALE 1:20



TYPICAL CLAY SERVICE PLUG DETAIL

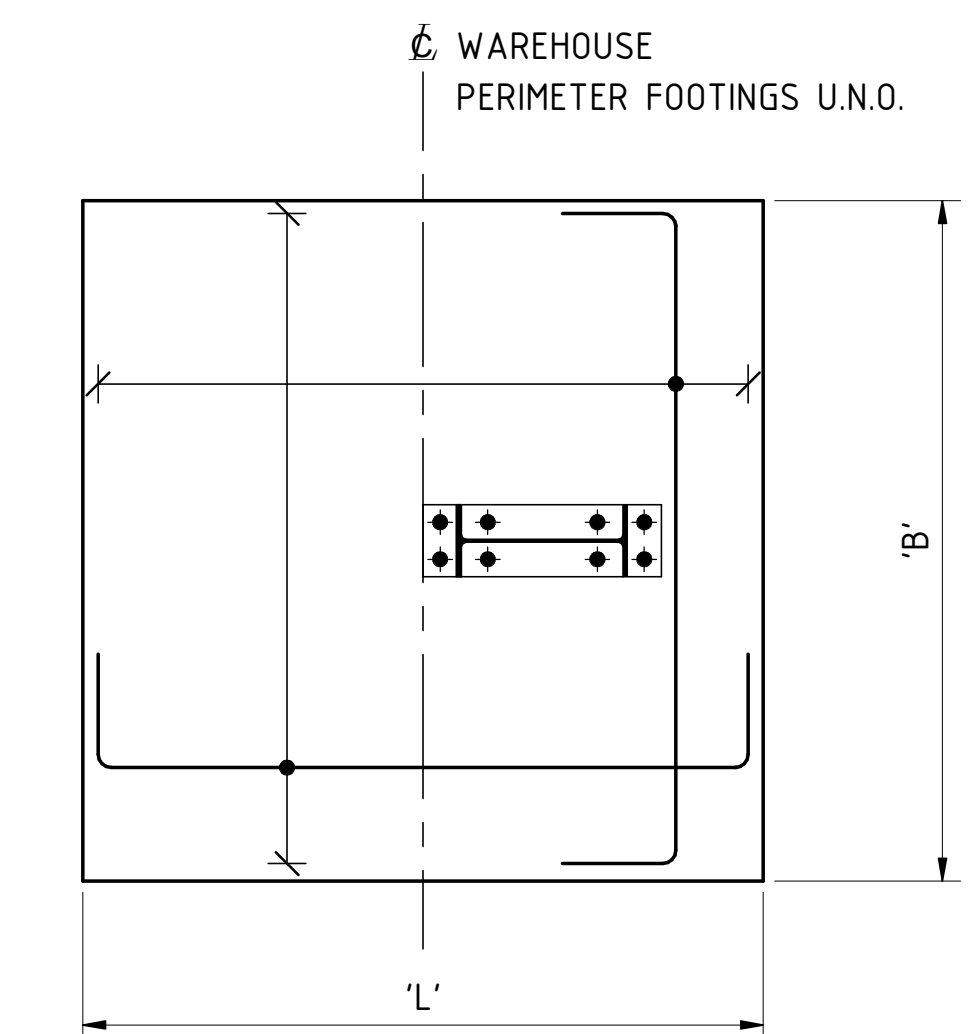
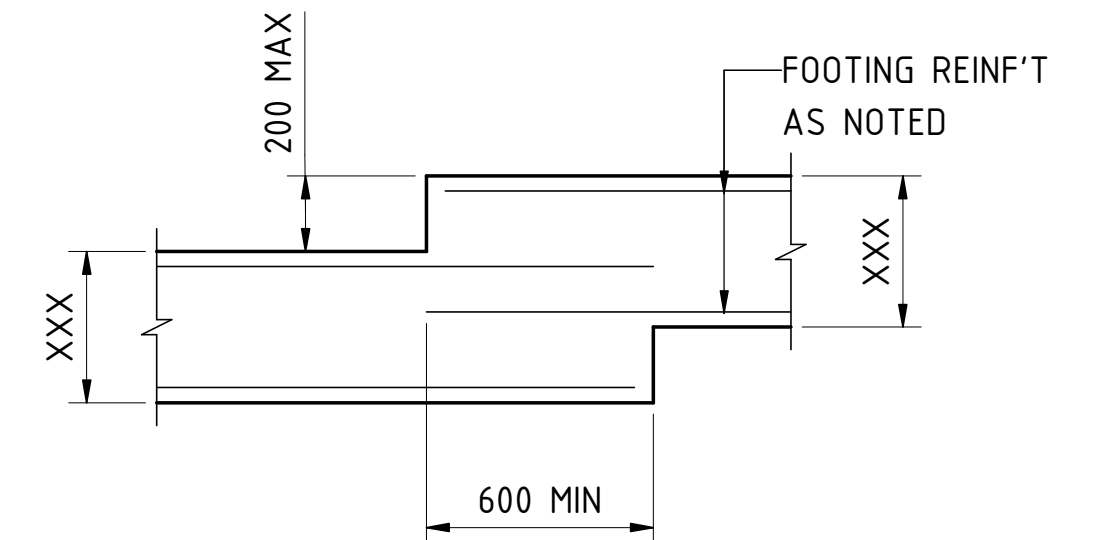
SCALE 1:20
ALL SERVICE TRENCHES ENTERING BUILDING TO INCORPORATE
CLAY PLUG TO PREVENT WATER INGRESS INTO THE BUILDING



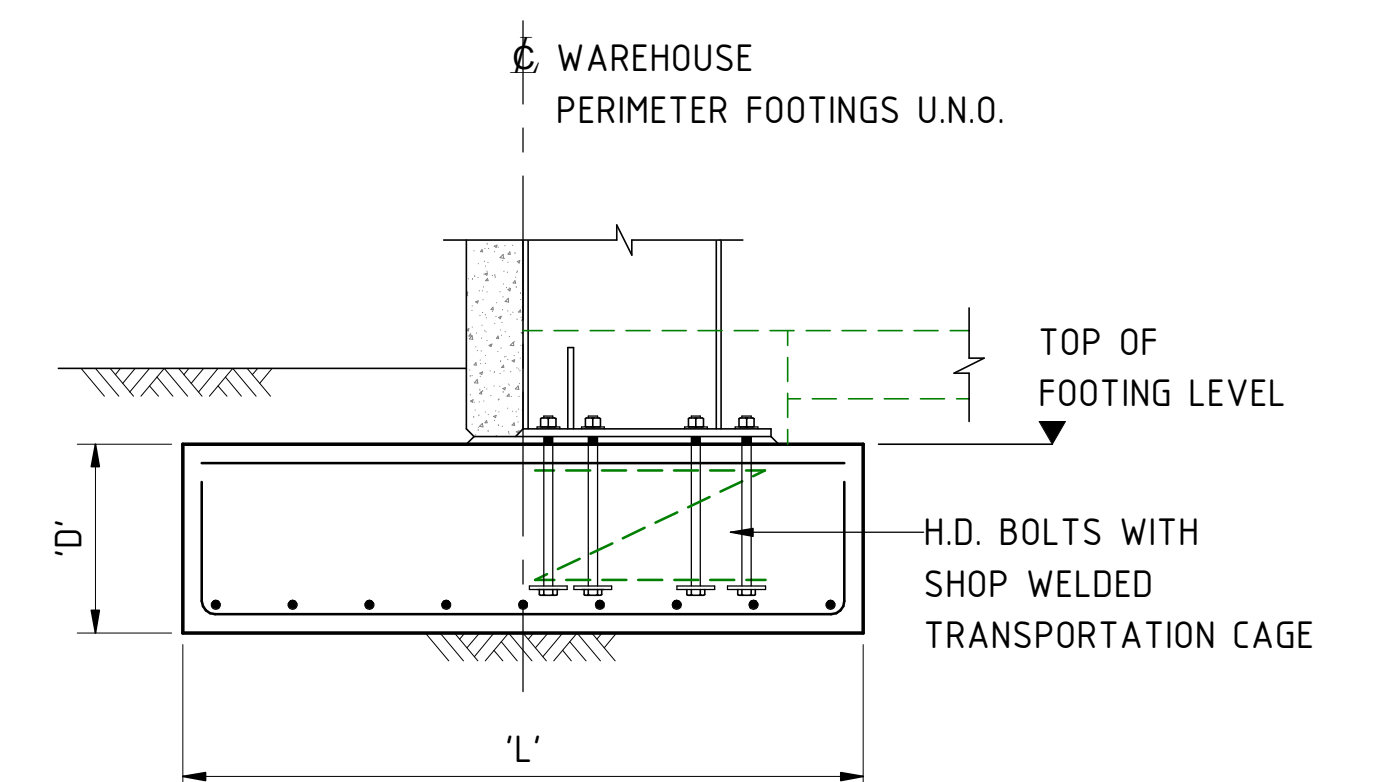
NOTE : SIDE, HAUNCH & BEDDING ZONES TO COMPRISE SAND BACKFILL ONLY.
OVERLAY ZONE TO COMPRISE SITE SOURCED CLAY MATERIAL AS NOTED
AT NO TIME IS SAND/CEMENT BACKFILL TO BE USED

**TYPICAL BEDDING DETAIL FOR
SERVICE PIPES/CONDUITS BELOW INTERNAL SLAB**

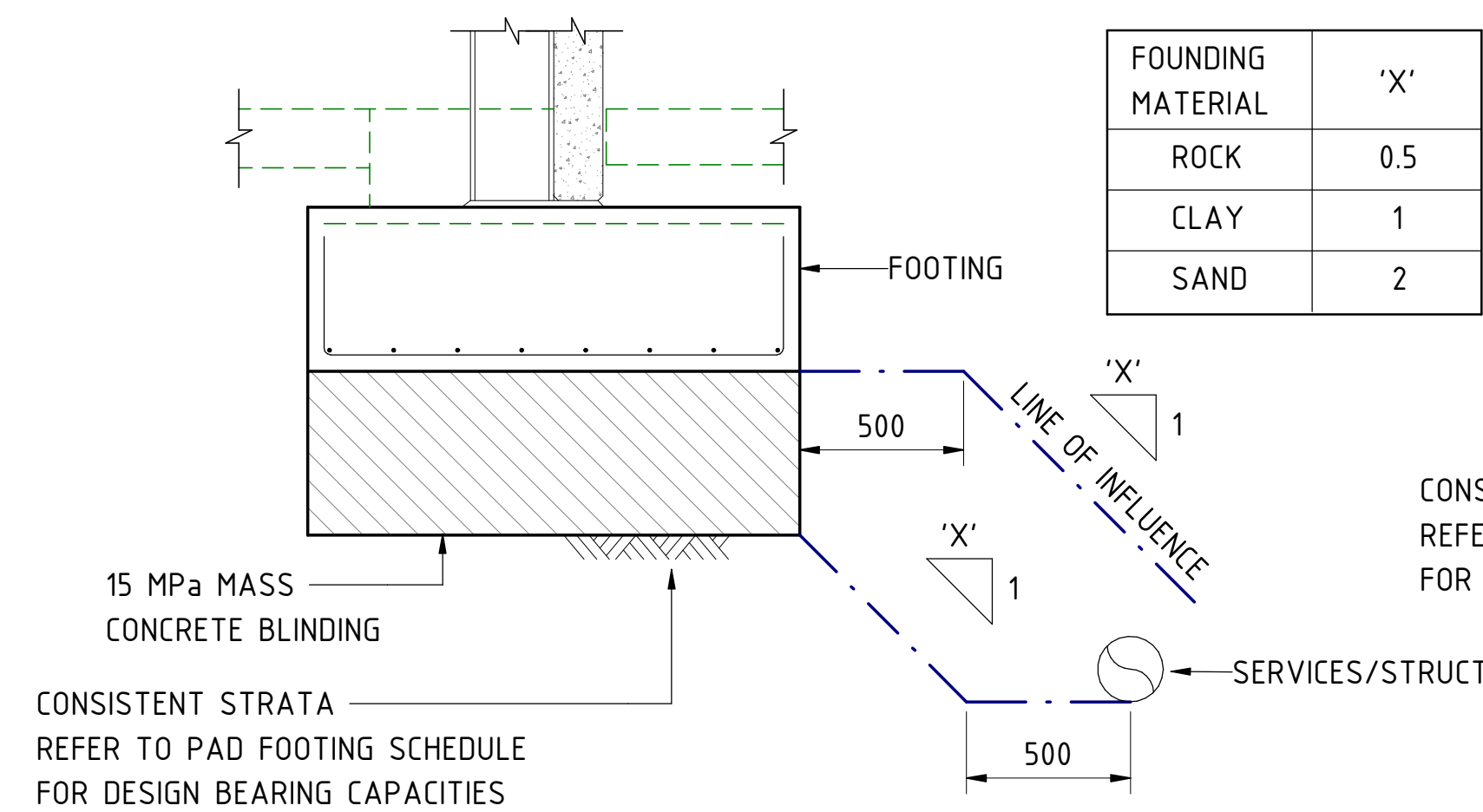
SCALE 1:20
APPLICABLE FOR PIPES/CONDUITS UP TO 900 DIAMETER



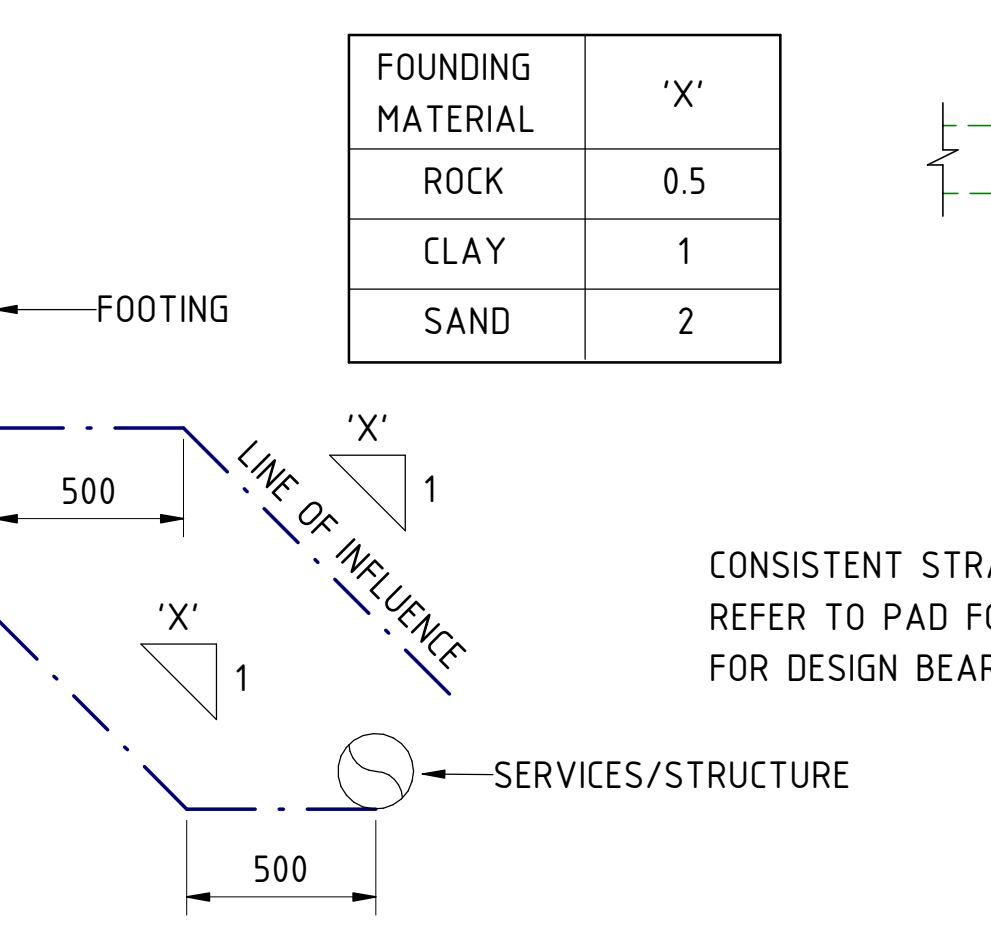
**TYPICAL WAREHOUSE PERIMETER
PAD FOOTING DETAIL
PLAN**



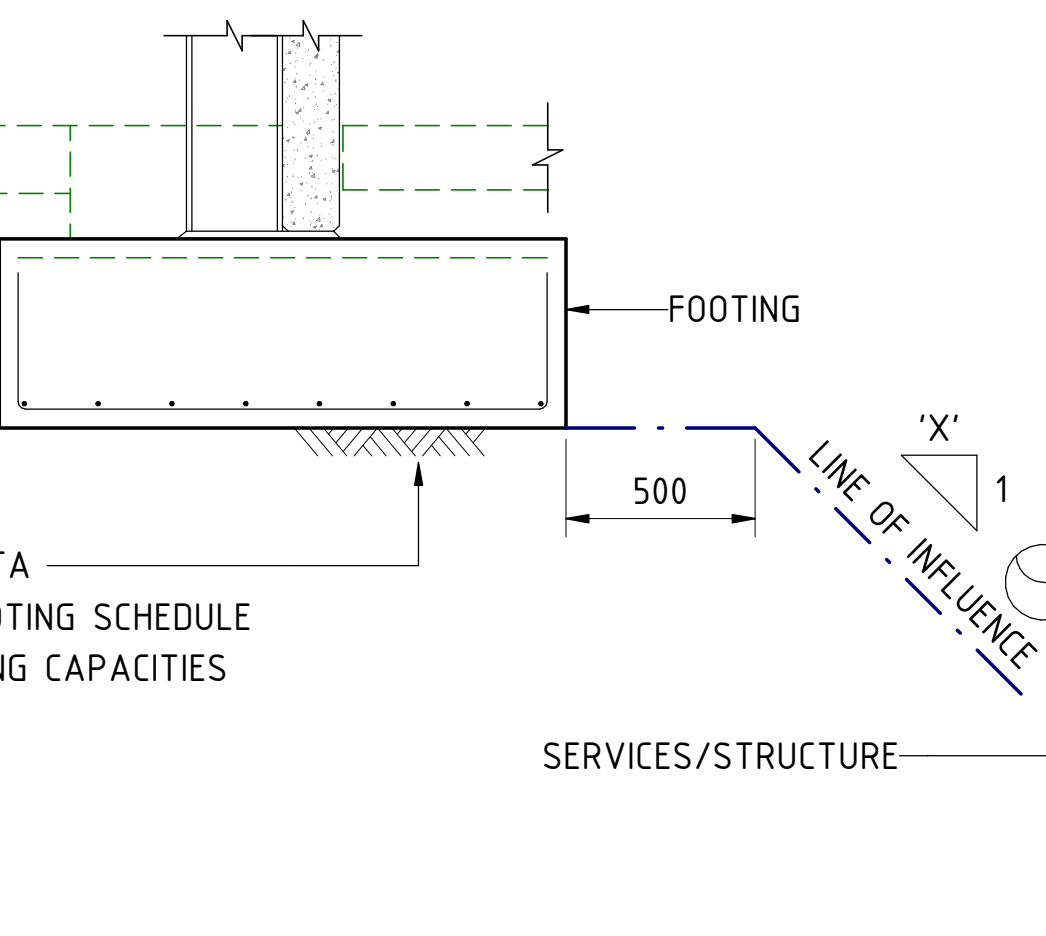
**TYPICAL WAREHOUSE PERIMETER
PAD FOOTING DETAIL
ELEVATION**



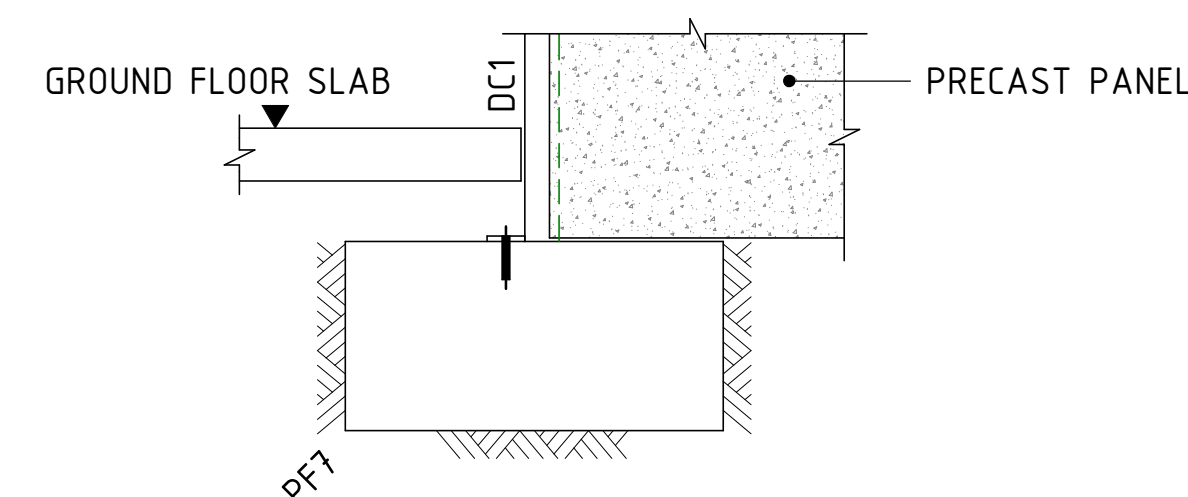
**SERVICE/STRUCTURE INSIDE
ZONE OF INFLUENCE OF FOOTING**



TYPICAL FOOTING DETAIL NEAR SERVICES
SCALE 1:20



**SERVICE/STRUCTURE OUTSIDE
ZONE OF INFLUENCE OF FOOTING**

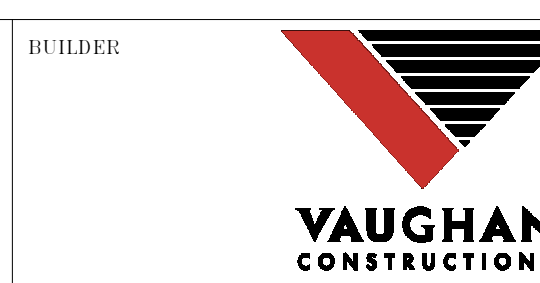
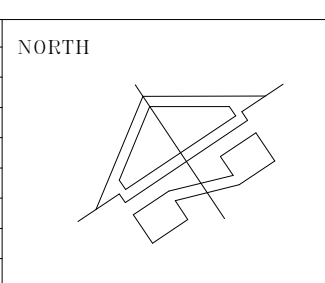


TYPICAL DC1 CONNECTION DETAIL
SCALE 1:20

FOR CONSTRUCTION

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SCALE 1:20 AT A0 SIZE SHEET

ISSUED FOR CONSTRUCTION	01/07/24	0	DATE	ISSUE
AMENDMENTS				



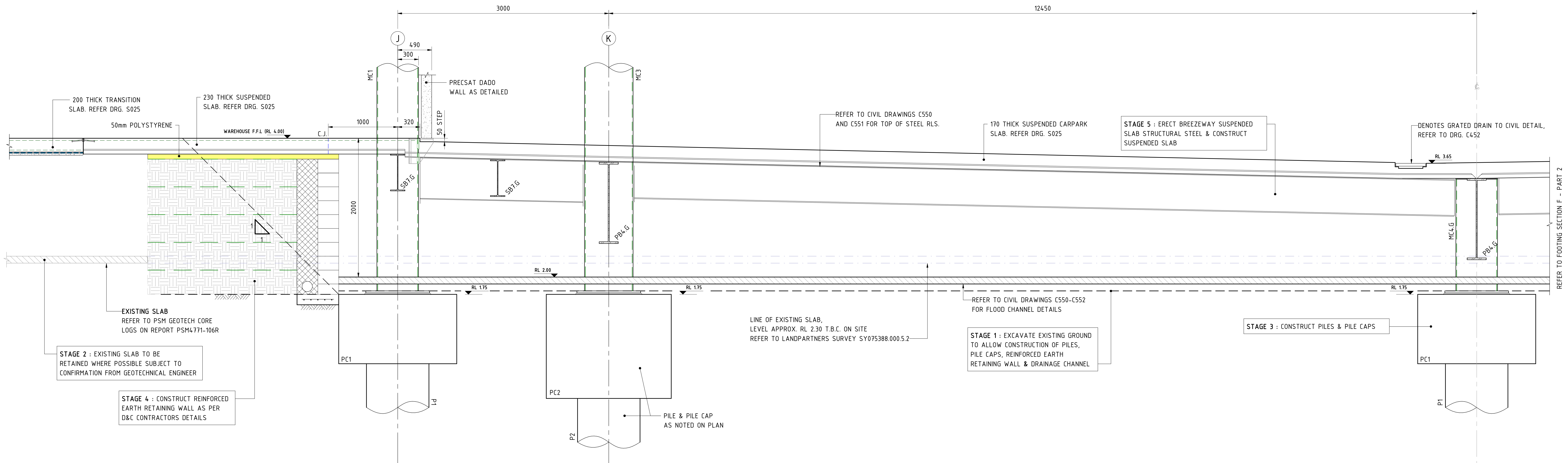
PROJECT	MOXON ROAD - MULTI LEVEL
	45 - 57 MOXON ROAD, PUNCHBOWL, N.S.W. 2196
DESIGNED	F.T.
DRAWN	P.S.
DATE	SEP. 22
SIZE	A0
SCALE	AS NOTED
CAD REF.	C014368.00 - S009



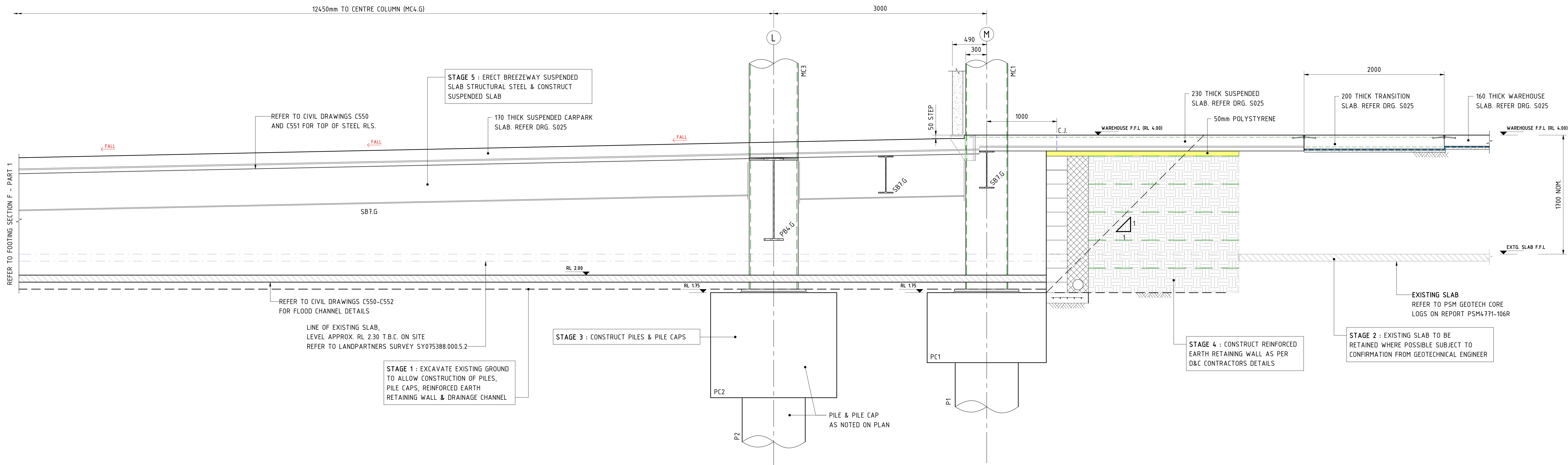
Costin Roe Consulting Pty Ltd.
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w: costinroe.com.au



DRAWING TITLE	FOOTING DETAILS - SHEET 4
DRAWING No.	C014368.00 - S009
ISSUE	0



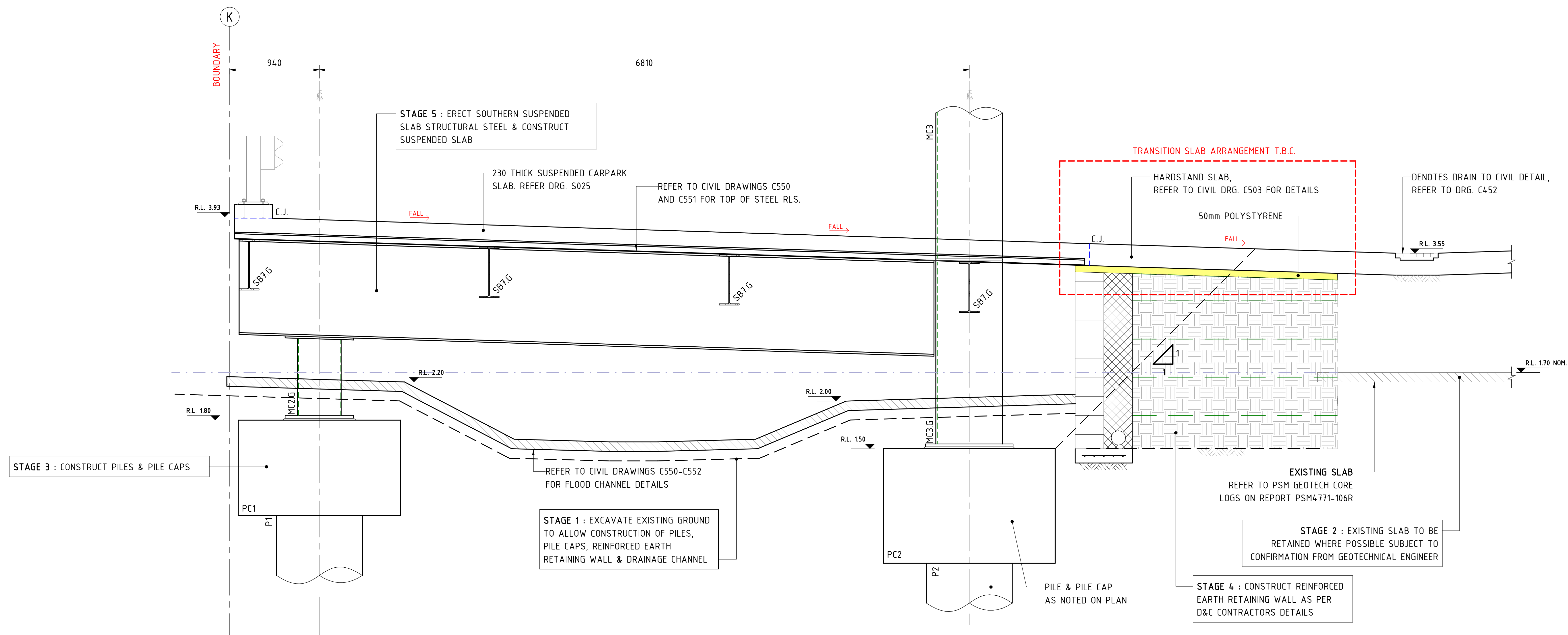
SECTION F : TYPICAL THRU' BREEZEWAY AT GROUND FLOOR SUSPENDED SLAB - PART 1
SCALE 1:20



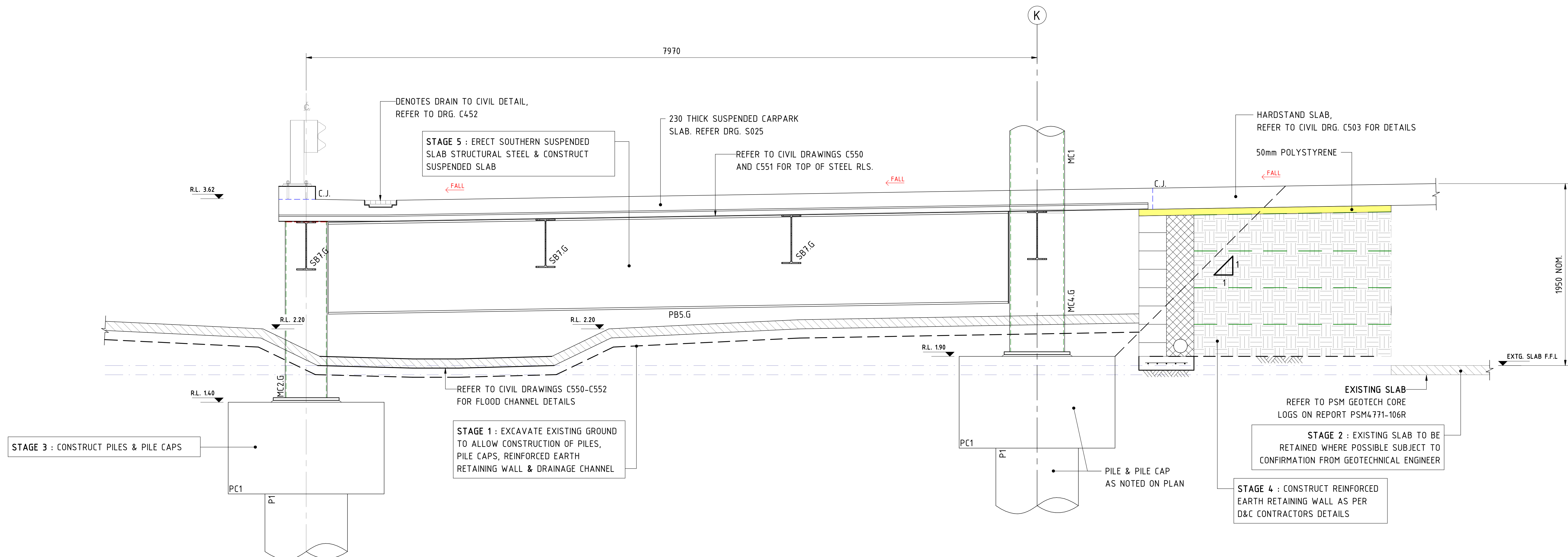
SECTION F : TYPICAL THRU' BREEZEWAY AT GROUND FLOOR SUSPENDED SLAB - PART 2
SCALE 1:20

FOR CONSTRUCTION

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SCALE 1:20 AT A0 SIZE SHEET



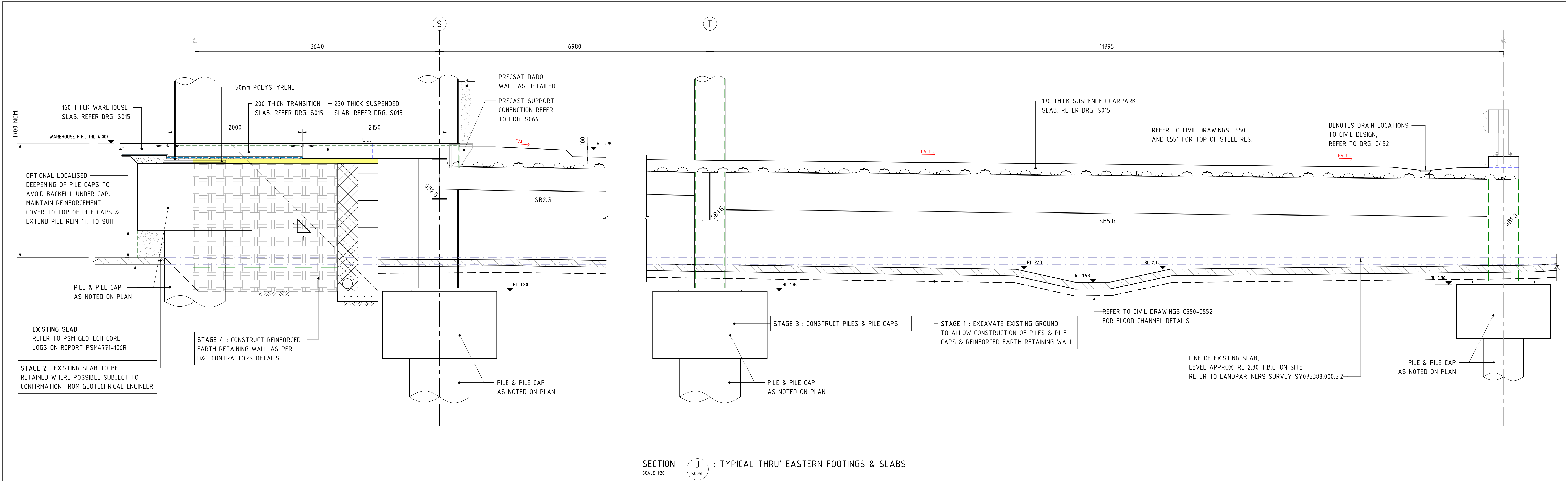
SECTION **G** : TYPICAL THRU' BREEZEWAY AT SUSPENDED HARDSTAND
SCALE 1:20



SECTION **H** : TYPICAL THRU' SOUTHERN SUSPENDED HARDSTAND
SCALE 1:20

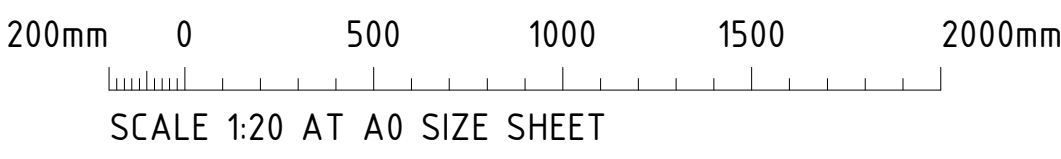
FOR CONSTRUCTION

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SCALE 1:20 AT A0 SIZE SHEET



SECTION **J** : TYPICAL THRU' EASTERN FOOTINGS & SLABS
SCALE 1:20

FOR CONSTRUCTION



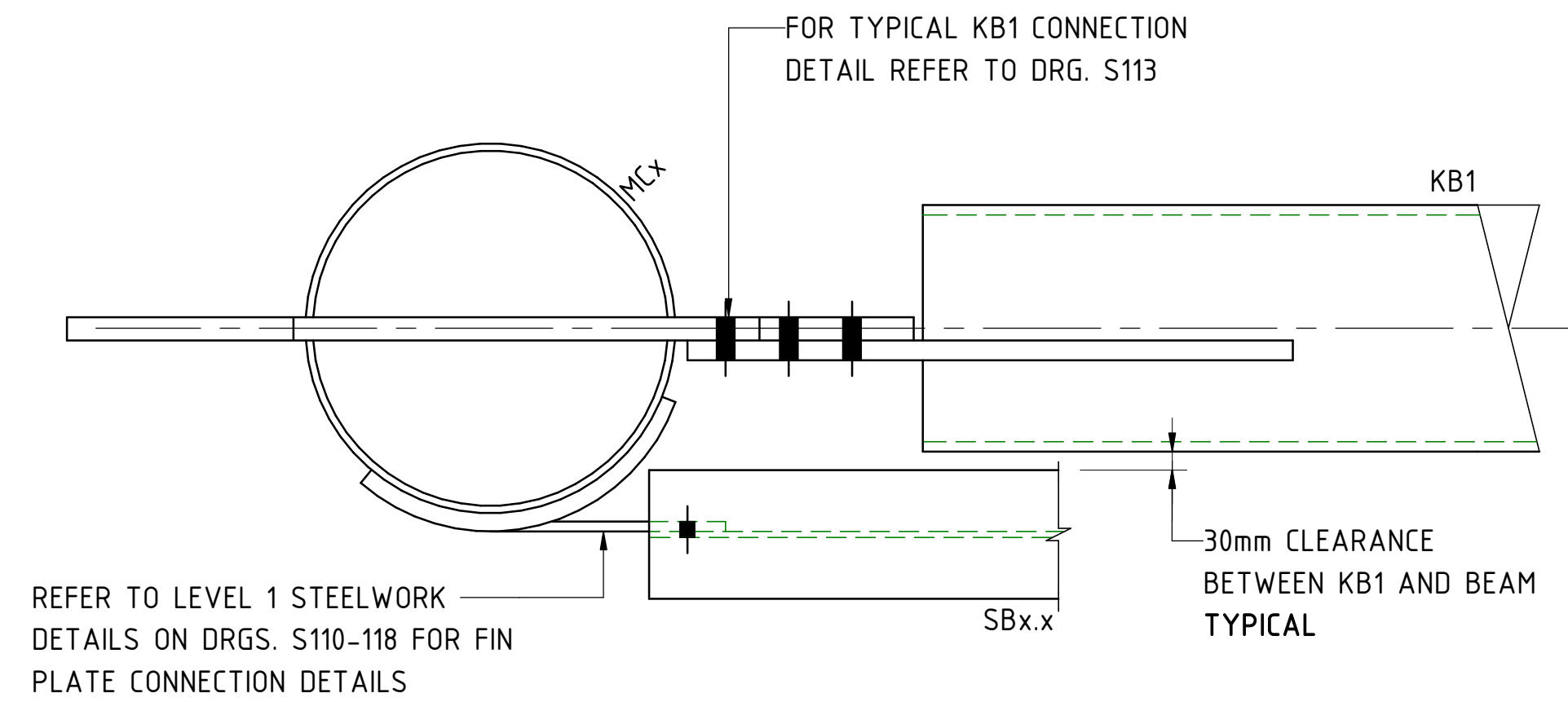
			NORTH		ARCHITECT		BUILDER		CLIENT		PROJECT		CONSULT AUSTRALIA		Costin Roe Consulting Pty Ltd.		CRC		DRAWING TITLE	
											MOXON ROAD - MULTI LEVEL 45 - 57 MOXON ROAD, PUNCHBOWL, N.S.W. 2196				PO Box N419 Sydney NSW 1220 Level 4, 0 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699 e: mail@costinroe.com.au w: costinroe.com.au				FOOTING DETAILS - SHEET 7	
ISSUED FOR CONSTRUCTION			12.07.24		0						DESIGNED		DRAWN		DATE		SIZE		SCALE	
AMENDMENTS			DATE		ISSUE		AMENDMENTS		DATE		F.T.		M.V.H.		SEP. 22		A0		AS NOTED	
											CAB REF:				C013924.02 - S012		Member Firm		DRAWING No.	
																			C013924.02 - S012	
																			ISSUE	
																			0	

STEELWORK MEMBER SCHEDULE					
MARK	MEMBER	SIZE	STUDS	GAUGE	HEIGHT
PB1.G	PRIMARY BEAM 230x12 TOP FLANGE. 698x10 WEB (CLEAR HEIGHT) 230x20 BOTTOM FLANGE.	730WB 113 (ASYMMETRIC, GRADE 350)	19Ø IN PAIRS @ 125	130	100
PB2.G	PRIMARY BEAM 220x12 TOP FLANGE. 572x10 WEB (CLEAR HEIGHT) 220x16 BOTTOM FLANGE.	600WB 93 (ASYMMETRIC, GRADE 350)	19Ø IN PAIRS @ 125	120	100
PB3.G	PRIMARY BEAM 340x16 TOP FLANGE 1128x16 WEB (CLEAR HEIGHT) 350x28 BOTTOM FLANGE	1200WB 255.5 (ASYMMETRIC + TAPERED BEAM + GRADE 350) REFER TO S115 FOR DETAIL	22Ø IN PAIRS @ 125	200	150
PB4.G	PRIMARY BEAM	1200WB 249 (GRADE 300)	22Ø IN PAIRS @ 125	200	150
PB5.G	PRIMARY BEAM	1000WB 215 (GRADE 300)	22Ø IN PAIRS @ 125	200	150
SB1.G	SECONDARY BEAM 200x10 TOP FLANGE. 380x8.0 WEB (CLEAR HEIGHT) 200x10 BOTTOM FLANGE.	400WB 54 (GRADE 350)	19Ø IN PAIRS @ 300	100	100
SB2.G	SECONDARY BEAM	360UB 44 (GRADE 300)	19Ø IN PAIRS @ 300	100	100
SB3.G	SECONDARY BEAM	310UB 32 (GRADE 300)	19Ø IN PAIRS @ 300	100	100
SB4.G	SECONDARY BEAM 230x12 TOP FLANGE. 698x10 WEB (CLEAR HEIGHT) 230x20 BOTTOM FLANGE.	730WB 113 (ASYMMETRIC, GRADE 350)	19Ø IN PAIRS @ 300	130	100
SB5.G	SECONDARY BEAM 200x10 TOP FLANGE. 550x8 WEB (CLEAR HEIGHT) 200x10 BOTTOM FLANGE.	570WB 66 (GRADE 350)	19Ø IN PAIRS @ 300	100	100
SB6.G	SECONDARY BEAM 230x12 TOP FLANGE. 640x10 WEB (CLEAR HEIGHT) 230x12 BOTTOM FLANGE.	664WB Ø7.3 (ASYMMETRIC + TAPERED BEAM + GRADE 350) REFER TO DRG. S115 FOR DETAIL	19Ø IN PAIRS @ 300	120	150
SB7.G	SECONDARY BEAM	530UB 82 (GRADE 350)	19Ø IN PAIRS @ 300	120	150
MC1	MANUFACTURED COL.	600x12 CHS (GRADE 350)	1#		
MC2	MANUFACTURED COL.	508x12.7 CHS (GRADE 350)	1#		
MC3	MANUFACTURED COL.	700x16 CHS (GRADE 350)	1#		
MC4	MANUFACTURED COL.	457x9.5 CHS (GRADE 350)	1#		
MC1.G	MANUFACTURED COL.	457x6.4 CHS (GRADE 350)	1#		
MC2.G	MANUFACTURED COL.	457x9.5 CHS (GRADE 350)	1#		
MC3.G	MANUFACTURED COL.	700x20 CHS (GRADE 350)	1#		
MC4.G	MANUFACTURED COL.	600x12 CHS (GRADE 350)	1#		
MC5.G	MANUFACTURED COL.	600x20 CHS (GRADE 350)	1#		

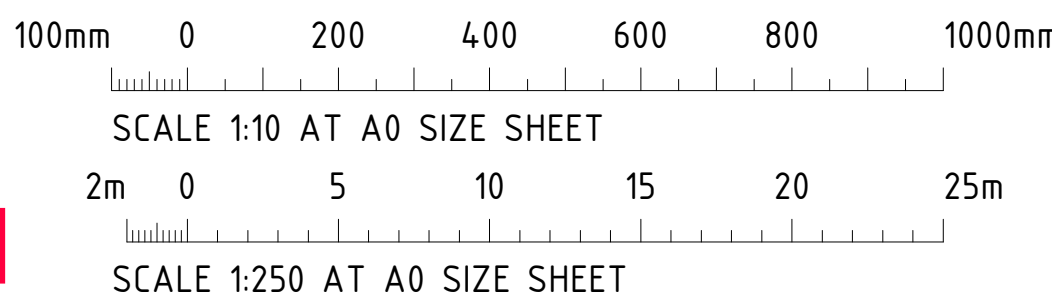
1# - CORE FILLED FABRICATED STEEL COLUMN,
REFER TO REINFORCEMENT DETAILS.

NOTE :
REFER DRG S100 FOR STEELWORK NOTES

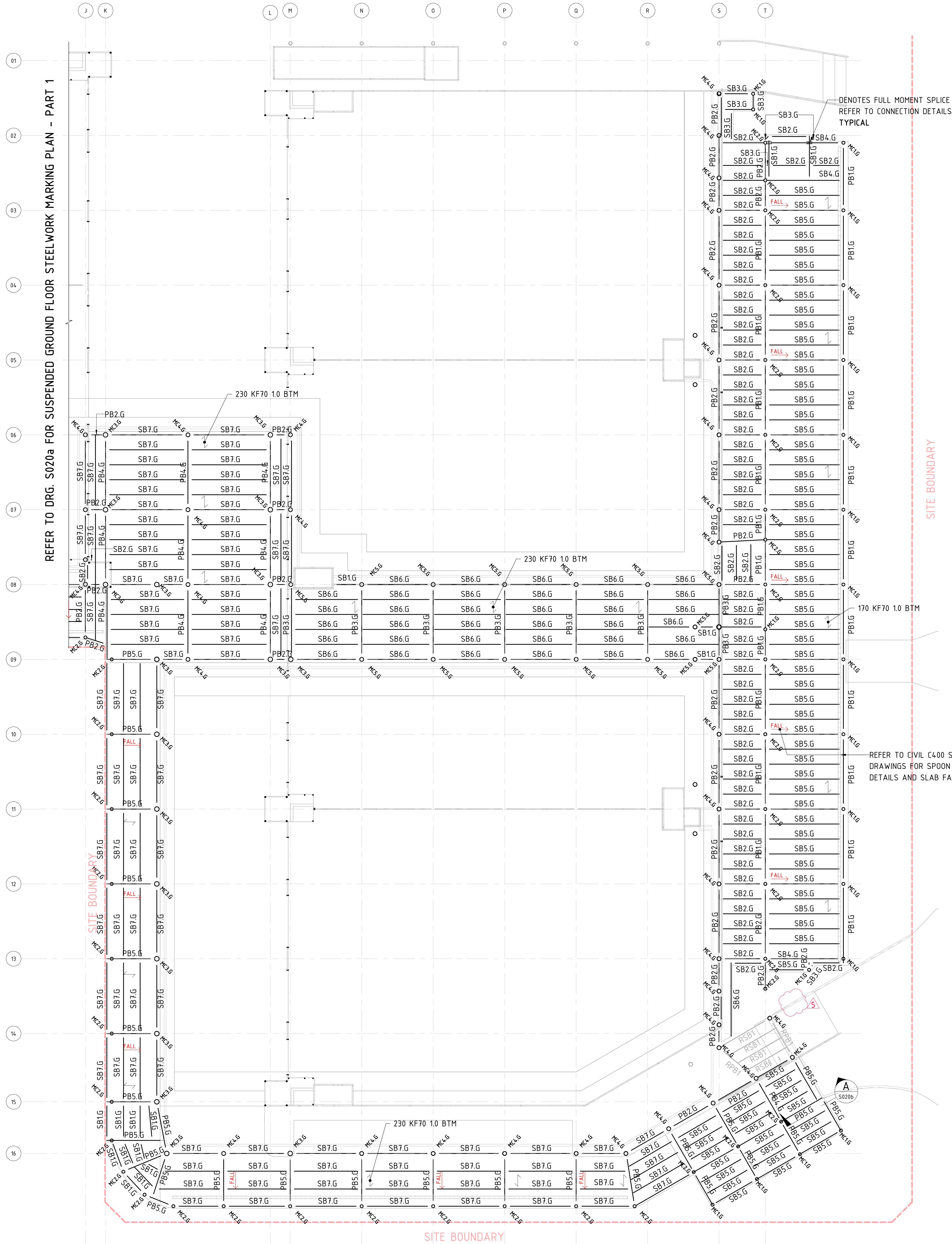
STEELWORK NOTE :
STUD HEIGHTS TO BE AMENDED TO 150 WHERE SLAB
THICKNESS IS 230 MM TYPICAL



TYPICAL SUSPENDED BEAM ARRANGEMENT AT KB1 LOCATIONS
SCALE 1:10



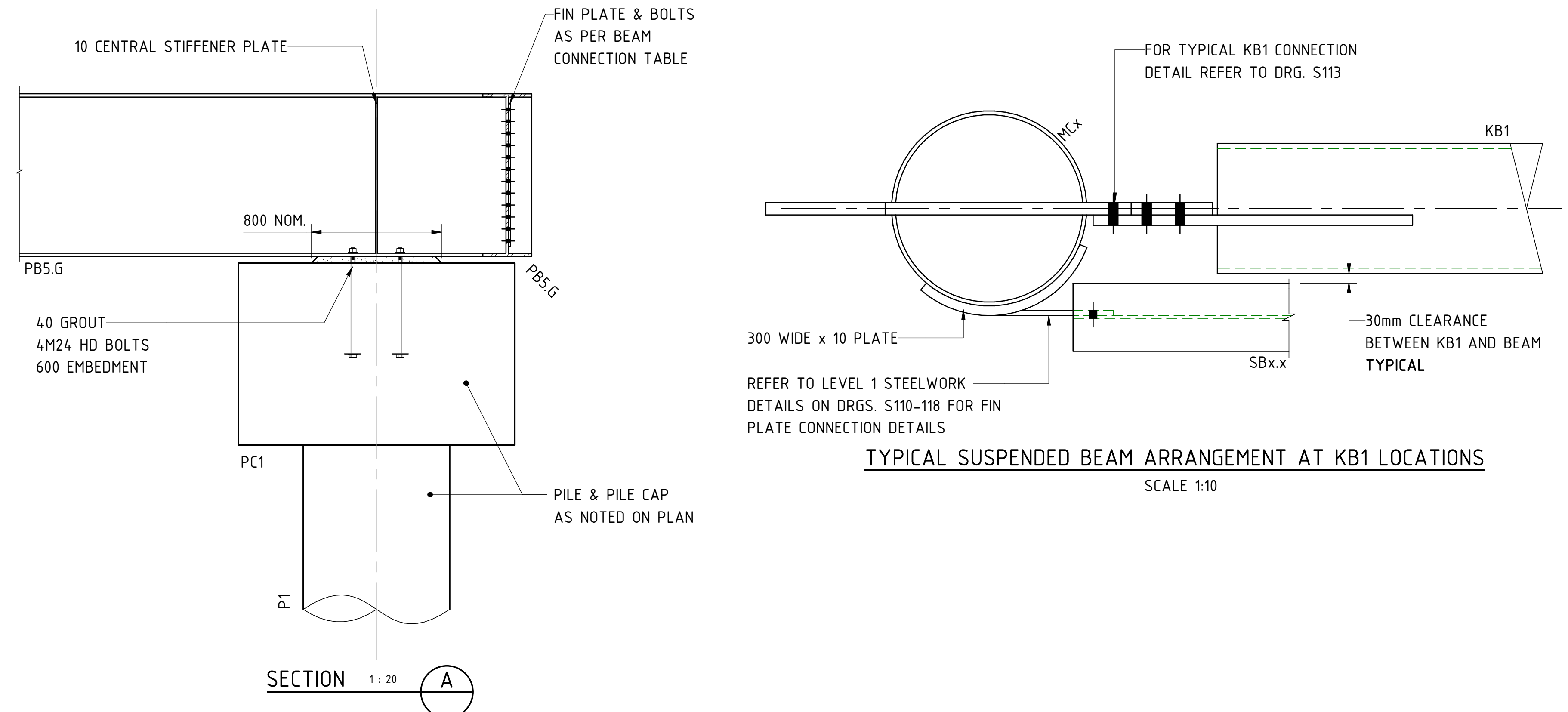
FOR CONSTRUCTION



STEELWORK MEMBER SCHEDULE				
MARK	MEMBER	SIZE	STUDS	GAUGE
PB1.G	PRIMARY BEAM 230x12 TOP FLANGE. 698x10 WEB (CLEAR HEIGHT) 230x20 BOTTOM FLANGE.	730WB 113 (ASYMMETRIC, GRADE 350)	19Ø IN PAIRS @ 125	130
PB2.G	PRIMARY BEAM 220x12 TOP FLANGE. 572x10 WEB (CLEAR HEIGHT) 220x16 BOTTOM FLANGE.	600WB 93 (ASYMMETRIC, GRADE 350)	19Ø IN PAIRS @ 125	120
PB3.G	PRIMARY BEAM 340x16 TOP FLANGE 1128x16 WEB (CLEAR HEIGHT) 350x28 BOTTOM FLANGE	1200WB 255.5 (ASYMMETRIC + TAPERED BEAM + GRADE 350) REFER TO S115 FOR DETAIL	22Ø IN PAIRS @ 125	200
PB4.G	PRIMARY BEAM	1200WB 249 (GRADE 300)	22Ø IN PAIRS @ 125	200
PB5.G	PRIMARY BEAM	1000WB 215 (GRADE 300)	22Ø IN PAIRS @ 125	200
SB1.G	SECONDARY BEAM 200x10 TOP FLANGE. 380x8.0 WEB (CLEAR HEIGHT) 200x10 BOTTOM FLANGE.	400WB 54 (GRADE 350)	19Ø IN PAIRS @ 300	100
SB2.G	SECONDARY BEAM	360UB 44 (GRADE 300)	19Ø IN PAIRS @ 300	100
SB3.G	SECONDARY BEAM	310UB 32 (GRADE 300)	19Ø IN PAIRS @ 300	100
SB4.G	SECONDARY BEAM 230x12 TOP FLANGE. 698x10 WEB (CLEAR HEIGHT) 230x20 BOTTOM FLANGE.	730WB 113 (ASYMMETRIC, GRADE 350)	19Ø IN PAIRS @ 300	130
SB5.G	SECONDARY BEAM 200x10 TOP FLANGE. 550x8 WEB (CLEAR HEIGHT) 200x10 BOTTOM FLANGE.	570WB 66 (GRADE 350)	19Ø IN PAIRS @ 300	100
SB6.G	SECONDARY BEAM 230x12 TOP FLANGE. 640x10 WEB (CLEAR HEIGHT) 230x12 BOTTOM FLANGE.	664WB 87.3 (ASYMMETRIC + TAPERED BEAM + GRADE 350) REFER TO DRG. S115 FOR DETAIL	19Ø IN PAIRS @ 300	120
SB7.G	SECONDARY BEAM	530UB 82 (GRADE 350)	19Ø IN PAIRS @ 300	120
MC1	MANUFACTURED COL.	600x12 CHS (GRADE 350)	1#	
MC2	MANUFACTURED COL.	508x12.7 CHS (GRADE 350)	1#	
MC3	MANUFACTURED COL.	700x16 CHS (GRADE 350)	1#	
MC4	MANUFACTURED COL.	457x9.5 CHS (GRADE 350)	1#	
MC1.G	MANUFACTURED COL.	457x6.4 CHS (GRADE 350)	1#	
MC2.G	MANUFACTURED COL.	457x9.5 CHS (GRADE 350)	1#	
MC3.G	MANUFACTURED COL.	700x20 CHS (GRADE 350)	1#	
MC4.G	MANUFACTURED COL.	600x12 CHS (GRADE 350)	1#	
MC5.G	MANUFACTURED COL.	600x20 CHS (GRADE 350)	1#	

NOTE :
REFER DRG S100 FOR STEELWORK NOTES

STUDWORK NOTE :
STUD HEIGHTS TO BE AMENDED TO 150 WHERE SLAB THICKNESS IS 230 MM TYPICAL



SUSPENDED GROUND FLOOR STEELWORK MARKING PLAN - PART 2
1 : 250

FOR CONSTRUCTION

