GENERAL

ORIGINAL SITE SURVEY PREPARED BY: JFP URBAN CONSULTANTS
TOWER 1, LEVEL 2, 55 PLAZA PARADE, MAROOCHYDORE, QLD 4558

DATUMS USED: AHD
VERT: RL
ORIGIN: PM60532 RL.1566
REAL PROPERTY DESCRIPTION:

1. LOT 90 ON SP316217
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
3. EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT.
4. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT BY A LICENSED LAND SURVEYOR. CONFIRM SETOUT WITH ARCHITECT.
5. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH APPROVED FILL MATERIAL AND COMPACTED TO 100% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289.5.1.1:2017.
6. ON COMPLETION OF SERVICES INSTALLATION, ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS, GRASSED AREAS AND ROAD PAVEMENTS.
7. WHERE NEW WORK ABUTS EXISTING, THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE FREE FROM ABRUPT CHANGES, IS OBTAINED.
8. CARE TO BE TAKEN WHEN EXCAVATING ELECTRICAL, COMMUNICATIONS AND ORIGIN GAS SERVICES. NO MECHANICAL EXCAVATION TO BE UNDERTAKEN OVER ELECTRICAL, COMMUNICATIONS AND GAS; HAND EXCAVATE IN THESE AREAS. LIAISE WITH RELEVANT LOCAL AUTHORITY.
9. ALL WORKS SHALL BE IN ACCORDANCE WITH RELEVANT THE LOCAL AUTHORITY STANDARDS, DETAILS SHOWN ON THE DRAWINGS, THE SPECIFICATION AND THE DIRECTIONS OF THE ARCHITECT.
10. THE CONTRACTOR SHALL NOT DISTURB ANY EXISTING SURVEY BENCH MARKS OR REFERENCE MARKS (UNLESS INDICATED FOR REMOVAL) WITHOUT DEPT. OF NATURAL RESOURCES APPROVAL IN WRITING.
11. THE CONTRACTOR SHALL OBTAIN ALL RELEVANT AUTHORITIES APPROVALS. (PRIOR TO COMMENCEMENT AND UPON COMPLETION).
12. WORK ON EXISTING EXTERNAL STORMWATER SERVICES BY CONTRACTOR ARE SUBJECT TO INSPECTION AND APPROVAL BY THE LOCAL AUTHORITY.
13. THE CONTRACTOR SHALL LOCATE AND CONFIRM LEVELS OF ALL EXISTING SERVICE CONNECTIONS PRIOR TO COMMENCING WORK.
14. THE CONTRACTOR SHALL REFER TO LANDSCAPE DRAWINGS FOR DETAILS OF TREATMENT OF BATTERS, SWALE DRAINS AND ANY OTHER AREAS DISTURBED AS PART OF CIVIL WORKS.
15. ROAD OPENINGS: THE CONTRACTOR'S ATTENTION IS DRAWN TO THE REQUIREMENTS OF THE LOCAL AUTHORITY. WHERE THE WORK IS LOCATED IN A ROAD RESERVE OR CROSSES THE PAVEMENT OF A PUBLIC ROADWAY OR FOOTWAY, OBTAIN A CONSENT COVERING THE NECESSARY OPENINGS AND COMPLY WITH ALL THE CONDITIONS COVERING THE ISSUE OF SUCH A CONSENT. A CHARGE IS MADE FOR PERMITS ISSUED IN RESPECT OF PAVEMENT OPENINGS. CONTRACTOR TO OBTAIN DETAILS FROM THE LOCAL AUTHORITY, MEET ALL REQUIREMENTS AND PAYMENTS, AND CARRY OUT ALL LIAISON AT NO EXTRA COST. ALL PAVEMENT SURFACING IS TO BE UNDERTAKEN BY THE CONTRACTOR. ALL PAVEMENT REINSTATEMENT TO BE UNDERTAKEN BY THE CONTRACTOR.
16. REFER ALSO TO HYDRAULIC, LANDSCAPING, MECHANICAL AND ELECTRICAL CONSULTANTS' DRAWINGS FOR ADDITIONAL SITE SERVICES TO BE CO-ORDINATED FOR CONSTRUCTION UNDER PROPOSED CARPARK PAVEMENTS.
17. A GEOTECHNICAL INVESTIGATION FOR THE ORIGINAL SITE HAS BEEN PREPARED BY DOUGLAS PARTNERS PROJECT No. 205407.00 DATED JULY 2021. THE CONTRACTOR SHALL ENSURE THAT THEY ARE FAMILIAR WITH THE CONTENTS OF THIS REPORT AND THE REPORT DOES FORM PART OF THE CONTRACT.
18. ALL CONSTRUCTION WORK SHALL BE CARRIED OUT SO THAT AT ANY TIME ADJOINING PROPERTY OWNERS ARE NOT DEPRIVED OF AN ALL-WEATHER ACCESS OR SUBJECTED TO ADDITIONAL STORM WATER RUN-OFF DURING THE PERIOD OF CONSTRUCTION.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO THE LOCAL AUTHORITY'S INFRASTRUCTURE. SUCH REPAIR OR REINSTATEMENT TO BE CARRIED OUT IMMEDIATELY TO THE SATISFACTION OF THE SUBDIVISION AND DEVELOPMENT MANAGER OF THE LOCAL AUTHORITY.
20. SITE INSPECTIONS REQUIRED AS SPECIFIED.
21. AUTOCAD DRAWING AND THE BASE FILE CAN BE OBTAINED BY CONTACTING ACOR QLD PTY LTD (PH +61 7 3844 5900).
22. CONTRACTOR IS TO ALLOW TO INCLUDE ANY REQUIRED THE LOCAL AUTHORITY INSPECTION AND COMPLIANCE FEES IN THE CONTRACT.

EXISTING SERVICES AND FEATURES

1. THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY THE WORKS WITHIN THE CONTRACT AREA, AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT. ALL TO REGULATORY AUTHORITY STANDARDS AND APPROVAL.
2. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
3. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL OBTAIN THE SUPERINTENDENT'S APPROVAL FOR HIS PROGRAMME FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
4. EXISTING BUILDINGS, EXTERNAL STRUCTURES, AND TREES SHOWN ON THESE DRAWINGS ARE FEATURES EXISTING PRIOR TO ANY SEPARATE AND PRECEDING DEMOLITION WORKS.
5. CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
6. INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE ADJACENT RESIDENCES. CONTRACTOR TO GAIN APPROVAL OF THE SUPERINTENDENT FOR TIME OF INTERRUPTION.
7. WHERE THERE IS AN ACTUAL OR POTENTIAL CLASH WITH EXISTING IN-GROUND SERVICES/FEATURES, THE CONTRACTOR IS TO ALLOW FOR NON-DESTRUCTIVE INVESTIGATORY WORKS TO DETERMINE THE TYPE, NUMBER, SIZE, INVERT AND OBVERT OF THE IN-GROUND ASSET AND HAVE DOCUMENTED BY A LICENSED SURVEYOR IN PDF AND DWG FORMATS.

EARTHWORKS

1. FOLLOWING DEMOLITION OF EXISTING STRUCTURES, ALL VEGETATION, SOILS CONTAINING ORGANIC AND DELETERIOUS MATERIAL, CONCRETE SLABS, CONCRETE BUILDING FOOTINGS AND PAVEMENT AREAS SHALL BE STRIPPED AND REMOVED FROM SITE.
2. ALL EXISTING TREE STUMPS AND ROOTS SHALL BE GRUBBED OUT TO A MINIMUM DEPTH OF 750mm.
3. DEPRESSIONS FORMED BY REMOVAL OF UNDERGROUND ELEMENTS AND OR WEAKENED AREAS SHOULD BE CLEANED OUT AND FILLED WITH COMPACTED IMPORTED FILL MATERIAL.
4. EXPOSED CONSTRUCTION AREAS SHALL BE PROOF ROLLED USING A VEHICLE WITH A TARE OF AT LEAST 5 TONNES PER AXLE IN THE PRESENCE OF THE NOMINATED GEOTECHNICAL TESTING AUTHORITY AND A REPRESENTATIVE OF ACOR QLD PTY LTD. AREAS DEMONSTRATING EXCESSIVE MOVEMENT SHALL BE TREATED IF POSSIBLE, OR REMOVED TO COMPETENT MATERIAL AND REPLACED WITH COMPACTED IMPORTED FILL MATERIAL.
5. ALL SOFT, WET OR UNSUITABLE MATERIAL IS TO BE REMOVED AND REPLACED WITH APPROVED MATERIAL SATISFYING THE REQUIREMENTS LISTED BELOW FOR IMPORTED FILL MATERIAL.
6. PLACE IMPORTED FILL MATERIALS SATISFYING THE REQUIREMENTS LISTED BELOW TO NOMINATED BULK EARTHWORKS LEVELS ON BULK EARTHWORKS PLAN.
7. ALL IMPORTED FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING:
   a) FREE FROM ORGANIC AND PERISHABLE MATTER
   b) MAXIMUM PARTICLE SIZE 100mm
   c) PLASTICITY INDEX MAXIMUM 15%
   d) LIQUID LIMIT, MAX OF 45%
   e) PASSING 19mm SIEVE, MAX 80%
   f) MINIMUM CBR 10%
   g) SHRINK/SWELL INDEX, MAX OF 1.0%
8. CONTRACTOR TO PROVIDE CERTIFICATION TO SUPERINTENDENT FROM NATA REGISTERED LAB THAT THE FILL MATERIAL IS FREE OF ACTUAL OR POTENTIAL ACID SULFATE SOILS AND MEETS CURRENT DPI REGULATIONS FOR THE CONTROL OF RED IMPORTED FIRE ANTS (RIFA).
9. ALL ENGINEERED FILL MATERIAL SHALL BE PLACED IN MAXIMUM 200mm THICK LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE THE FOLLOWING MINIMUM COMPACTION VALUES:

LOCATION	COHESIVE SOILS	COHESIONLESS SOILS
BUILDING AREAS		
• FOUNDATION SUPPORT	98%	80%
• FLOOR SLABS	98%	80%
PAVEMENT AREAS		
• TOP 300mm BELOW SUBGRADE LEVEL	98%	80%
• BELOW THE TOP 300mm	95%	75%
LANDSCAPE AREAS	95%	75%

WHERE THE ABOVE VALUES ARE DETERMINED IN ACCORDANCE WITH AS1289.5.1.1 (STANDARD COMPACTION) FOR COHESIVE SOILS AND AS1289.5.6.1 (STANDARD METHOD) FOR COHESIONLESS SOILS.

10. ALL EARTHWORKS OPERATIONS SHALL BE CARRIED OUT WITH 'LEVEL 1' ENGINEERING SUPERVISION IN ACCORDANCE WITH APPENDIX B OF AS 3798. THE NOMINATED GEOTECHNICAL TESTING AUTHORITY SHALL PROVIDE RPEQ CERTIFICATION AS NOTED IN THE GEOTECHNICAL REPORT THAT ALL GENERAL EARTHWORKS OPERATIONS HAVE BEEN CARRIED OUT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AND THE CONTROLLED FILL IS SUITABLE FOR PURPOSE WITH A MINIMUM 150 KPa BEARING CAPACITY UNDER THE BUILDING. ALL CERTIFICATIONS RECOMMENDED IN DOUGLAS PARTNERS PROJECT No. 205407.00 DATED JULY 2021 ARE TO BE PROVIDED BY THE CONTRACTOR.
11. THE CONTRACTOR SHALL PROGRAMME THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLER MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED BY THE CONTRACTOR AT THEIR COST.
12. TESTING OF THE SUBGRADE SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 3798 BY AN APPROVED NATA REGISTERED LABORATORY AT THE CONTRACTOR'S EXPENSE.
13. ALL BASE AND SUB-BASE MATERIALS SHALL BE PLACED IN MAXIMUM 150mm THICK LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT OF (+ OR - 2%) TO ACHIEVE A DRY DENSITY IN ACCORDANCE WITH AS 1289.5.2.1 OF NOT LESS THAN THE FOLLOWING:

LAYER	MODIFIED DRY DENSITY
BASE COURSE	98% MODIFIED (AS 1289.5.2.1)
SUB-BASE COURSE	95% MODIFIED (AS 1289.5.2.1)

14. CONTRACTOR TO ENSURE VIA THE APPROPRIATE SELECTION OF FILL MATERIAL AND EARTHWORKS THAT, UPON COMPLETION OF THE EARTHWORKS, THAT THE BUILDING PLATFORM HAS A CLASS 'S' CLASSIFICATION IN ACCORDANCE WITH AS2870.
15. ANY SURPLUS EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF SITE AT AN APPROVED TIP SITE. CONTRACTOR TO ALLOW TO COMPLY WITH CURRENT DEPARTMENT OF AGRICULTURAL AND WATER RESOURCES REGULATIONS FOR THE CONTROL OF RED IMPORTED FIRE ANTS.
16. ANY CONTAMINATED MATERIAL SHALL BE MANAGED AND DISPOSED OF ACCORDING TO THE LOCAL AUTHORITY AND EPA REQUIREMENTS INCLUDING CERTIFICATION.
17. THE USE OF POTABLE WATER IS NOT PERMITTED IN ACTIVITIES ASSOCIATED WITH ROAD AND PAVEMENT CONSTRUCTION, THE COMPACTION OF FILL MATERIAL OR DUST SUPPRESSION CONTRACTOR TO UTILISE RECYCLED OR SUITABLE NON POTABLE WATER FOR THESE ACTIVITIES WITHIN THE CONTRACT. USE OF RECYCLED WATER MUST BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY.
18. FOR PURPOSE OF THIS CONTRACT, ROCK IS DEFINED AS A MONOLITHIC MATERIAL WITH GREATER THAN $0.3m^3$ WHICH CANNOT BE REMOVED UNTIL BROKEN UP BY RIPPERS OR PERCUSSIONS TOOLS. ROCK IS DEFINED AS MATERIAL NOT BEING ABLE TO BE REMOVED USING A CATERPILLAR 330 WITH A SINGLE TYNE RIPPER AND EXCAVATION RATE OF LESS THEN $10m^3/h$.

STORMWATER

1. ALL 300 DIA. DRAINAGE PIPES AND LARGER SHALL BE CLASS "3" APPROVED SPIGOT AND SOCKET RCP PIPES WITH RUBBER RING JOINTS, (U.N.O.). ALL DRAINAGE PIPES UP TO AND INCLUDING 225 DIA. SHALL BE SEWER GRADE DWV uPVC CLASS "SN8" WITH SOLVENT WELD JOINTS OR RUBBER RING JOINTS (U.N.O.)
2. EQUIVALENT STRENGTH FRC PIPES MAY USED FOLLOWING CONSULTATION WITH THE CERTIFYING ENGINEER.
3. ALL PIPE JUNCTIONS UP TO AND INCLUDING 450 DIA. AND ALL TAPERS SHALL BE VIA PURPOSE MADE FITTINGS.
4. MINIMUM GRADE TO STORMWATER LINES TO BE 1%. (U.N.O.).
5. CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION TO DISSIMILAR PIPEWORK.
6. ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
7. WHERE SUBSOIL DRAINAGE LINES PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED uPVC SEWER GRADE PIPE SHALL BE USED.
8. PROVIDE 3.0m LENGTH OF 100 DIA. SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK, AT UPSTREAM END OF EACH PIT (UNO). PIPE MATERIAL TO CONFORM WITH GREEN STAR NOTES BELOW.
9. BEDDING SHALL BE TYPE H1 (U.N.O.) IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARDS.
10. AT CONNECTION TO PITS, INVERT OF SUBSOIL DRAINS TO BE ABOVE MAIN STORMWATER PIPE OBVERT.
11. EQUIVALENT STRENGTH PRECAST STORMWATER PITS AND MANHOLES MAY BE USED.

CONCRETE PAVEMENT JOINT

1. WHERE NOMINATED, JOINTS TO BE SAWN AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY THAT IT WILL NOT BE DAMAGED BY SAWING. IF AN UNPLANNED CRACK OCCURS THE CONTRACTOR SHALL REPLACE WHOLE SLABS EITHER SIDE OF THE UNPLANNED CRACK, UNLESS DIRECTED OTHERWISE.
2. a) PROVIDE JOINTS AS DETAILED
   b) ALL LONGITUDINAL JOINTS SHALL BE FORMED AND INCLUDE TIE BARS OR DIAMOND DOWELS AS SPECIFIED. ALL TRANSVERSE CONSTRUCTION JOINTS SHALL BE FORMED AND INCLUDE PLATES OR DIAMOND DOWELS AS SPECIFIED.
   c) UNO BOND BREAKER TO BE PROPRIETARY DANLEY PLATE AND DIAMOND DOWEL COVERS.
3. DOWELS, PLATES AND TIE BARS SHALL BE:
   - STRAIGHT
   - TO LENGTH SPECIFIED
   - CLEAN AND FREE FROM MILL SCALE, RUST AND OIL
   - SAWN TO LENGTH NOT CROPPED
   - HOT DIPPED GALVANISED AFTER SAWING TO LENGTH
4. DIMENSIONS OF SEALANT RESERVOIR DEPENDANT ON THE SEALANT TYPE ADOPTED. ENGINEERS APPROVAL TO BE OBTAINED FOR SEALANT AND RESERVOIR DIMENSIONS AND DETAIL PROPOSED BY THE CONTRACTOR. REFER TO DETAILS FOR TYPICAL ARRANGEMENT AND SEALANT.
5. PRIOR TO THE PLACEMENT OF CONCRETE IN THE ADJACENT SLAB, 10mm ABELFLEX WITH RIPOFF STRIP SHALL BE ADHERED TO THE ALREADY CAST AND CLEANED CONCRETE FACE USING AN APPROVED WATERPROOF ADHESIVE. ADHESIVE SHALL BE LIBERALLY APPLIED TO THE FULL FACE OF THE CONCRETE SLAB TO BE COVERED BY THE FILLER, AND ON THE FULL FACE OF THE FILLER TO BE ADHERED.
6. REFER TO EARTHWORKS NOTES FOR PREPARATION OF SUB-BASE AND SUB-GRADE.
7. CONTRACTION, LONGITUDINAL, ISOLATION AND CONSTRUCTION JOINTS SHALL BE LOCATED AS SPECIFIED.
8. SAWCUTTING SHALL COMMENCE AS EARLY AS POSSIBLE UTILISING SOFFCUT TO AVOID UNCONTROLLED SHRINKAGE CRACKING, BUT NOT SO EARLY AS TO CAUSE UNACCEPTABLE RAVELING OF JOINT EDGES. PROGRAM SITE AND TIME OF CONCRETE POURS TO PERMIT SAWING TO BE CARRIED OUT WITHOUT CAUSING NOISE POLLUTION.
9. CONCURRENTLY WITH THE SAWING OPERATIONS THE SAWN GROOVE SHALL BE WASHED FREE OF MATERIAL.
10. SAWN GROOVES FORMING THE RESERVOIR FOR A JOINT SEALANT SHALL BE FORMED IN TWO STAGES. THE SECOND SAWCUT SHALL BE MADE AS LATE AS POSSIBLE.

DANLEY DOWEL JOINT

1. WHERE NOMINATED THE CONTRACTOR IS TO ALLOW FOR ALL COMPONENTS OF DANLEY DOWEL JOINT SYSTEM INCLUDING TEMPLATES & PEGGING TO ENSURE THAT ALL DOWEL BARS REMAIN IN THE CORRECT ALIGNMENT & POSITION REFER DETAILS.

LINEMARKING

1. ALL LINEMARKING TO BE IN ACCORDANCE WITH AS 1742 PARTS 1 AND 2.
2. ALL INTERNAL CARPARK LINE MARKING SHALL BE 90mm WIDE UNO AND BE COMPLETED USING WHITE REFLECTORISED PAINT UNO IN ACCORDANCE WITH AS 1742 AND AS SPECIFIED IN THE ARCHITECTURAL SPECIFICATION.
3. THE INTERNATIONAL SYMBOL OF ACCESS SHALL BE WHITE ON A BLUE BACKGROUND IN ACCORDANCE WITH AS 1428. THE BLUE SHALL BE B21, ULTRAMARINE OF AS 2700, OR SIMILAR APPROVED.

REINFORCED CONCRETE

GENERAL

1. CARRY OUT ALL CONCRETE WORK IN ACCORDANCE WITH AS 3600 AND THE SPECIFICATION. KEEP A COPY OF THE DOCUMENTS ON SITE.
2. VERIFY ALL SETTING OUT DIMENSIONS WITH THE SUPERINTENDANT AND/OR THE SURVEYOR.
3. DO NOT OBTAIN DIMENSIONS BY SCALING THE DRAWINGS.

CONCRETE

4. ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH AS 3600 CURRENT EDITIONS WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
5. CONCRETE CHARACTERISTICS:

ELEMENT	COMPRESSIVE STRENGTH F'c - 28 DAYS (MPa)	SLUMP (mm)	MAX AGG SIZE (mm)
ALL KERBS, PITS ETC	32	80	20
FOOTPATH	32	80	20
CARPARK PAVEMENT	40	65	20
OSD TANK BASE AND LID	40	80	20

6. NO 'BRECCIA' TYPE AGGREGATE IS TO BE USED.
7. CEMENT TO BE TYPE SL TO AS 3972 U.N.O. MAX CONCRETE SHRINKAGE TO BE 600 MICRON TO AS1012.
8. NO ADMIXTURES ARE TO BE USED WITHOUT THE APPROVAL OF THE ENGINEERS.
9. A VIBRATOR IS TO BE USED FOR THE COMPACTION OF ALL CONCRETE.
10. ALL CONCRETE PLACEMENT TO UTILISE *ALIPHATIC* ALCOHOL APPLIED TO THE CONCRETE AFTER THE INITIAL SCREED. CONCRETE SHALL BE CURED IN ACCORDANCE WITH AS3600 FOR A MINIMUM OF 7DAYS AFTER POURING, UTILISING AN APPROVED, NON-OIL BASED CURING COMPOUND OR THE COVERING OF THE ENTIRE SLAB WITH A CLEAR PLASTIC SHEET.
11. ALL CONCRETE SHALL BE SUBJECT TO PROJECT CONTROL SAMPLE AND TESTING TO AS 3600.
12. THE CONTRACTOR MAY ADD AN APPROVED SUPERPLASTICISING ADMIXTURE TO INCREASE SLUMP OF PAVEMENT CONCRETE TO NOT MORE THAN 100mm. QUALITY AND MIXING PROCEDURE TO BE IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS.
13. SLIP JOINTS TO BE USED ON ALL LOAD-BEARING MASONRY WALLS. USE 2 LAYERS OF GALVANISED FLAT STEEL WITH GRAPHITE GREASE BETWEEN.

FINISHING

14. THE CONCRETE SHALL BE SCREEDED TO THE REQUIRED CROSS SECTION PROFILE, FREE OF DEPRESSIONS AND HIGH AREAS TO SATISFY THE REQUIREMENTS OF AN INITIAL FINISH.
15. FINAL FINISHING SHALL COMMENCE ONLY AS SOON AS THE WATER SHEEN HAS LEFT THE PAVEMENT SURFACE AND NOT IN ANY AREA WHERE THERE IS FREE SURFACE WATER. REFER ARCHITECTURAL SPECIFICATIONS FOR FINISHES TO SURFACES.

REINFORCEMENT

16. COVER TO REINFORCEMENT FOR CORROSION PROTECTION SHALL BE AS DETAILED OR AS A MINIMUM 40mm TO TOP REINFORCEMENT, 50mm TO BOTTOM REINFORCEMENT.
17. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE COVER TO REINFORCEMENT.
18. REINFORCEMENT QUALITY
   19.1 BAR REINFORCEMENT

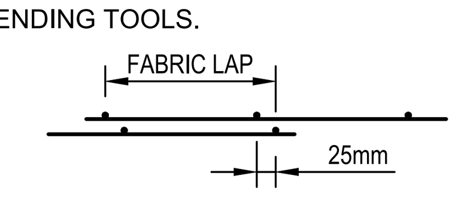
SYMBOL	BAR SHAPE	STRENGTH GRADE (MPa)	DUCTILITY CLASS	TO COMPLY WITH AUST. STANDARD
N	DEFORMED RIBBED BAR	500	NORMAL	AS 4671
R	PLAIN ROUND BAR	250	NORMAL	AS 4671
Y	DEFORMED BAR *SEE NOTE	410	NORMAL	AS 1302

ALL BARS TO BE "N" UNLESS NOTED OTHERWISE THE NUMBER FOLLOWING THE SYMBOL IS THE NOMINAL BAR SIZE IN mm. FOR EXAMPLE, N16 DENOTES A DEFORMED RIBBED BAR, OF GRADE 500MPa NORMAL DUCTILE STEEL, WITH A NOMINAL 16mm DIAMETER.
*NOTE: Y BARS MAY BE REPLACED WITH N BARS OF SAME SIZE.
19.2 MESH REINFORCEMENT

SYMBOL	DENOTES	STRENGTH GRADE (MPa)	DUCTILITY CLASS	TO COMPLY WITH AUST. STANDARD
RL	RECTANGULAR MESH OF DEFORMED RIBBED BARS	500	LOW	AS 4671
SL	SQUARE MESH OF DEFORMED RIBBED BARS	500	LOW	AS 4671
F	RECTANGULAR OR SQUARE MESH OF PLAIN WIRE *SEE NOTE	450		AS 1304

THE NUMBERS FOLLOWING THE SYMBOL DENOTE THE PRODUCT CODE. FOR EXAMPLE, SL92 DENOTES A SQUARE MESH OF 9mm (NOMINAL DIAMETER) DEFORMED RIBBED BARS AT 200mm CENTRES, OF GRADE 500MPa LOW DUCTILITY STEEL.
*NOTE: F MESH MAY BE REPLACED WITH RL OR SL MESH OF THE SAME CONFIGURATION.

19. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY; IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
20. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITION SHOWN. THE WRITTEN APPROVAL OF THE ENGINEER SHALL BE OBTAINED FOR ANY OTHER SPLICE.
21. WELDING OF REINFORCEMENT WILL BE PERMITTED ONLY AFTER APPROVAL BY THE ENGINEER.
22. SITE BENDING OF Y OR N BARS SHALL BE DONE COLD WITH POWER OR MECHANICAL BENDING TOOLS.
23. FABRIC LAPS



24. FABRIC TO EXTEND 70 WITH A CROSSWIRE ONTO WALLS UNLESS NOTED OTHERWISE.

CONSTRUCTION INSPECTIONS

THE CONTRACTOR IS TO CONFIRM APPLICABLE NOTIFICATION POINTS [NOTIFY] AND INSPECTION REQUIREMENTS [INSPECT] WITH THE CERTIFYING ENGINEER PRIOR TO UNDERTAKING WORKS WHERE CERTIFICATION OF THOSE WORKS. THESE WORKS MAY INCLUDE BUT ARE NOT LIMITED TO:

1. PRESTART MEETING [INSPECT]
2. VERIFICATION/POTHOLE OF EXISTING SERVICES AT CONNECTIONS/CROSSINGS [NOTIFY]
3. ESTABLISHMENT OF EROSION AND SEDIMENT CONTROLS [INSPECT]
4. ENCOUNTERING UNSUITABLE MATERIAL OR ROCK [NOTIFY]
5. COMPLETION OF EARTHWORKS [INSPECT]
6. COMMENCEMENT OF EXCAVATION FOR CIVIL SERVICE TRENCHES [NOTIFY]
7. PIPE LAYING AND JOINTING PRIOR TO BACKFILL [INSPECT]
8. CONCRETE BASE AND EACH LIFT OF SEWER AND STORMWATER MAINTENANCE STRUCTURES [INSPECT]
9. PREPARATION OF SUBGRADE TO PAVEMENT AND PROOF ROLL (FLEXIBLE AND RIGID) [INSPECT]
10. BIORETENTION BASIN BASE EXCAVATION [INSPECT]
11. BIORETENTION TOP OF DRAINAGE LAYER WITH SOME PIPEWORK VISIBLE FOR CONFIRMATION [INSPECT]
12. BIORETENTION TOP OF TRANSITION LAYER [NOTIFY]
13. BIORETENTION TOP OF FILTER MEDIA [INSPECT]
14. PLACING OF GRAVEL LOWER SUB-BASE PAVEMENT LAYER AND PROOFROLL (FLEXIBLE) [INSPECT]
15. PLACING OF GRAVEL SUB-BASE PAVEMENT LAYER AND PROOFROLL (FLEXIBLE) [INSPECT]
16. PLACEMENT OF KERB [NOTIFY]
17. PLACING OF GRAVEL BASE PAVEMENT LAYER AND PROOFROLL (PRE-SEAL) (FLEXIBLE) [INSPECT]
18. PRIME AND SEAL INSTALLATION PRIOR TO AC [NOTIFY]
19. LAYING OF ASPHALTIC CONCRETE [INSPECT]
20. PLACING OF GRAVEL BASE PAVEMENT LAYER AND PROOFROLL (RIGID) [INSPECT]
21. CONCRETE STEEL & STRUCTURAL INSPECTIONS [INSPECT]
22. LIVE CONNECTIONS - CONNECTION TO AUTHORITY ASSETS (WATER, SEWER, STORMWATER) [INSPECT]
23. PRE-ON MAINTENANCE INSPECTION WITH SERVICES AUTHORITY [INSPECT]
24. DEFECTS INSPECTION [INSPECT]
25. ON MAINTENANCE INSPECTIONS [INSPECT]
26. OFF MAINTENANCE INSPECTIONS WITH SERVICES AUTHORITY WHERE REQUIRED [INSPECT]
27. OFF MAINTENANCE INSPECTIONS [INSPECT]

THE CONTRACTOR SHALL ALLOW ADEQUATE TIME IN THEIR PROGRAM FOR INSPECTIONS BY THE CERTIFYING ENGINEER AND THE LOCAL AUTHORITY (IF REQUIRED) AT EACH STAGE OF CONSTRUCTION.

NOTWITHSTANDING THE REQUIREMENTS FOR NOTICE BY THE LOCAL AUTHORITY, THE CERTIFYING ENGINEER SHALL BE GIVEN A MINIMUM OF 3 FULL BUSINESS DAYS' NOTICE OF THE REQUIRED INSPECTIONS.

THE CONTRACTOR SHALL BE DEEMED TO BE FAMILIAR WITH ALL LOCAL AUTHORITY REQUIREMENTS FOR SUPERVISION AND INSPECTIONS AND MAKE PROVISION FOR THEM IN THEIR LUMP SUM PRICE.

THE CONTRACTOR SHALL BE UNDERTAKING THEIR OWN INSPECTIONS AND REQUEST INSPECTIONS ONLY WHEN THE WORKS MEET THE REQUIRED SPECIFICATIONS.

CONSTRUCTION QA DOCUMENTATION

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING QA DOCUMENTATION TO THE CERTIFYING ENGINEER FOR THE PREPARATION OF FORM 12 AND/OR CONSTRUCTION CERTIFICATION. THE PROVISION OF THIS INFORMATION DOES NOT REMOVE THE REQUIREMENT FOR THE CERTIFYING ENGINEER TO ADEQUATELY INSPECT THE WORKS DURING CONSTRUCTION

GENERAL

1. ALL CBR TESTS, COMPACTION TESTS, AND OTHER GEOTECHNICAL TESTING IS TO BE UNDERTAKEN BY THE GEOTECHNICAL TESTING AND INSPECTION AUTHORITY (GITA) FOR THE SITE
2. ALL SURVEY DOCUMENTATION TO BE UNDERTAKEN BY A LICENCED REGISTERED SURVEYOR.

ROADWORKS/PAVEMENTS

1. CBR TEST RESULTS FOR ALL VEHICLE PAVEMENT SUBGRADE (NUMBER OF TESTS TO BE THE GREATER OF 50m SPACING ALONG LENGTH OF ROAD OR LOCAL AUTHORITY REQUIREMENT). CBR TEST & LOCATION TO BE CONFIRMED BY GITA THAT THE TEST RESULT IS REPRESENTATIVE OF THE SUBGRADE MATERIAL FOR THAT TEST AREA.
2. COMPACTION TESTS FOR ROAD PAVEMENT LAYERS (NUMBER OF TESTS TO BE THE GREATER OF 50m SPACING ALONG LENGTH OF ROAD OR LOCAL AUTHORITY REQUIREMENT). COMPACTION TEST RESULTS FOR SUBGRADE REPLACEMENT
3. GRAVEL PAVEMENT DOCKETS
4. AC DATA SHEETS
5. PRIMER AND SEAL DATA SHEETS
6. AC COMPACTION TEST RESULTS
7. SURVEY PICKUPS CONFIRMING LEVELS OF EACH PAVEMENT LAYER
8. CONCRETE COMPRESSIVE STRENGTH TEST RESULTS FOR KERBS, FOOTPATHS AND RIGID PAVEMENTS (IF APPLICABLE)
9. AS CONSTRUCTED SURVEY OF THE FINISHED SURFACE TO BE PICKED UP AT 5M GRIDS AND AT ANY PAVEMENT EDGE OR CHANGE IN GRADE.
10. AS CONSTRUCTED SURVEY TO BE PROVIDED IS GDA2020 COORDINATES IN DWG FORMAT AND IN REQUIRED ADAC FORMAT

EARTHWORKS

1. LEVEL 1 REPORT BY THE GITA

STORMWATER

1. BEDDING/DRAINAGE MATERIAL DOCKETS & PSD
2. BACKFILL MATERIAL DOCKETS
3. COMPACTION TESTING FOR GRAVEL BACKFILL
4. MANHOLE CONCRETE DOCKETS & COMPRESSIVE STRENGTH TESTS
5. LEAN MIX DOCKETS
6. MATERIAL CERTIFICATES FOR ASPRO, PIPES AND PRE-CAST PITS
7. AS CONSTRUCTED SURVEY CONFIRMING STORMWATER ASSET INVERT LEVELS, PIPE SIZES, STRUCTURE SIZES AND STRUCTURE SURFACE LEVELS
8. AS CONSTRUCTED SURVEY TO BE PROVIDED IS GDA2020 COORDINATES IN DWG FORMAT AND IN REQUIRED ADAC FORMAT
9. STORMWATER CCTV (VIDEO AND REPORT)

BIO-RETENTION BASIN

1. DRAINAGE GRAVEL DOCKETS
2. PHOTOS OF SUBSOIL DRAINAGE INSTALL
3. TRANSITION MATERIAL DOCKETS
4. FILTER MEDIA DOCKETS
5. MATERIAL CERTIFICATES FOR THE DRAINAGE, TRANSITION AND MEDIA LAYERS
6. FILTER MEDIA IN-SITU HYDRAULIC CONDUCTIVITY TESTS RESULTS & FAWB TESTING RESULTS.
7. SURVEY OF FINISHED BASIN SURFACE, SUBSOIL DRAINAGE LINES, INLET AND OUTLET STRUCTURES TO BE INCORPORATED INTO THE STORMWATER AS CONSTRUCTED SURVEY. SURVEY SHOULD INCLUDE ALL LAYERS FROM UNDERSIDE OF DRAINAGE TO TOP OF FILTER MEDIA.
8. AS CONSTRUCTED SURVEY TO BE PROVIDED IS GDA2020 COORDINATES IN DWG FORMAT AND IN REQUIRED ADAC FORMAT

PROPRIETARY STORMWATER QUALITY

1. SIGN OFF FOR THE INSTALLATION AND COMMISSIONING OF THE PROPRIETARY DEVICE SYSTEMS BY THE PROPRIETOR.

SEWER AND WATER (AUTHORITY ASSET)

1. BEDDING/DRAINAGE MATERIAL DOCKETS & PSD
2. BACKFILL MATERIAL DOCKETS
3. COMPACTION TESTING FOR GRAVEL BACKFILL
4. MANHOLE CONCRETE DOCKETS & COMPRESSIVE STRENGTH TESTS
5. LEAN MIX DOCKETS WHERE REQUIRED
6. BACTERIAL AND CHLORINATION TESTING FOR WATER
7. PRESSURE TESTING RESULTS FOR WATER
8. SEWER VAC TEST FOR BOTH PIPELINES AND STRUCTURES.
9. SEWER PIPE OVALITY TESTING
10. MATERIAL CERTIFICATES FOR ASPRO, PIPES AND PRE-CAST PITS
11. AS CONSTRUCTED SURVEY CONFIRMING SEWER ASSET INVERT LEVELS, PIPE SIZES, STRUCTURE SIZES AND STRUCTURE SURFACE LEVELS
12. AS CONSTRUCTED SURVEY CONFIRMING WATER ASSET INVERT LEVELS, PIPE SIZES, BENDS, FITTINGS AND HYDRANT AND VALVE SURFACE LEVELS
13. AS CONSTRUCTED SURVEY TO BE PROVIDED IS GDA2020 COORDINATES IN DWG FORMAT AND IN REQUIRED ADAC FORMAT
14. SEWER CCTV (VIDEO FOOTAGE AND REPORT)

FOR CONSTRUCTION

THIS PLAN IS TO BE PRINTED IN COLOUR

Issue	Description	Date	Drawn	Approved
1	ISSUE FOR CONSTRUCTION	21/06/22	JG	ND
B	FOR APPROVAL	15/02/22	JG	ND
A	TENDER ISSUE	24/11/21	JG	ND
P1	SCHEMATIC DESIGN	22/06/21	LM	ND

-1 0 1cm at full size 10cm 20cm

North

Client: Rockpool Residential Aged Care

ENGINEER'S CERTIFICATION
This drawing has been assigned an electronic code that signifies the drawing has been checked and approved by:
Matthew Godwin
RPEQ 18547
2022.06.23
16:09:58+10'00'

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Project
ROCKPOOL AGED CARE
PELICAN WATERS

LOT 90, SPITFIRE BANKS DRIVE
PELICAN WATERS, QLD

Drawing Title
GENERAL NOTES

Drawn	Date	Scale A1	Q.A. Check	Date
LM	JUNE 2021	N.T.S	ND	15/02/22
Designed	Project No.		Dwg. No.	Issue
ND	BR210085		21033-C-0.02	1

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