SITE ADDRESS / PROPERTY ID
23 STEVENS STREET
YANDINA, QLD, 4561
CLIENT
AURA
PROPERTY

PROJECT & PHASE

1 INTO 2 LOTS URBAN SUBDIVISION OPPERATIONAL WORKS - CIVIL

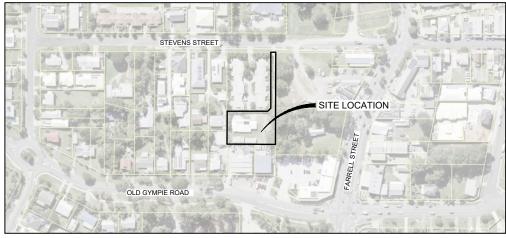


IMAGE (SCC MYMAPS)

LOCALITY PLAN

SURVEY DATA
SURVEYED BY SONTO DATED 13/10/23.
PLAN REFERENCE 13036 - DET1 REV_A

RP DESCRIPTION
LOT 1 SP186007
SITE AREA = 2108m²

COUNCIL PERMIT No. PHASE OPW - 24/0426

Project No. Status Drawing No. Rev No. 230633 FOR APPROVAL OPW-C-001 B



DRAWING INDEX

DRAWING No.	REV	DRAWING TITLE
230633-OPW-C-001	В	COVER SHEET, LOCALITY & DRAWING INDEX
230633-OPW-C-011	В	GENERAL NOTES & DETAILS
230633-OPW-C-101	В	EXISTING FEATURES PLAN
230633-OPW-C-201	В	EARTHWORKS, EROSION & SEDIMENT PLAN
230633-OPW-C-301	В	DEVELOPMENT SITE PLAN
230633-OPW-C-321	В	SITE SECTIONS & TYPICAL DETAILS
230633-OPW-C-371	В	CONCRETE JOINTING PLAN
230633-OPW-C-372	В	CONCRETE JOINTING DETAILS
230633-OPW-C-501	В	SEWER & WATER NOTES
230633-OPW-C-502	Α	SEWER & WATER PLAN
230633-OPW-C-541	Α	SEWER LONGITUDINAL SECTION

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- DRAWINGS TO BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTATION, LOCAL AUTHORITY SPECIFICATIONS (OR ARCOS GROUP SPECIFICATIONS IF SUPPLIED). ANY POINT OF CONFLICT IS TO BE IDENTIFIED BY THE CONTRACTOR AN WILL BE RESOLVED BY THE SUPERINTENDENT.
- THE DEVELOPER IS TO NOMINATE THE SUPERINTENDENT AND/OR THE SUPERVISING RPEQ FOR THE WORKS AND NOTIFY ALL RELEVANT PARTIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 3. DIMENSIONS IN METRES U.N.O. DO NOT SCALE FROM DRAWINGS. USE PRINTED DIMENSIONS ONLY AND IF IN DOUBT ASK SUPERINTENDENT FOR CLARIFICATION.
- 4. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL APPROVAL CONDITIONS, DEVELOPMENT GUIDELINES, ASSOCIATED STANDARD DRAWINGS AND SPECIFICATIONS U.N.O.
- 5. EXISTING SERVICES AND STRUCTURES HAVE BEEN PLOTTED FROM SUPPLIED DATA AND AS SUCH THEIR EAISHING SERVICES AND STRUCTURES HAVE BEEN PLOTTED FROM SUPPLIED BY AND AS SOCIETY THE ACCURACY CANNOT BE GUARANTEES. IT IS THE CONTRACTORS RESPONSIBILITY TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXITING SERVICES PRIOR TO COMMENCEMENT OF ANY WORK. DISCREPANCIES SHALL BE REPORTED TO THE SUPPRINTENDENT.
- ON COMPLETION OF SERVICES INSTALLATION, ALL AREAS SHALL BE RESTORED TO ORIGINAL LEVEL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS, GRASSED AREAS AND ROAD PAVEMENTS.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO COUNCILS INFRASTRUCTURE. SUCH REPAIR OR REINSTATEMENT TO BE CARRIED OUT IMMEDIATELY TO THE SATISFACTION OF LOCAL.
- COUNCIL.
- COUNCIL:

 THE CONTRACTOR SHALL PROVIDE ALL MANAGEMENT PLANS, INCLUDING TRAFFIC MANAGEMENT PLAN, ENVIRONMENTAL MANAGEMENT PLAN AND WORKPLACE HEALTH AND SAFETY PLAN FOR REVIEW AND APPROVAL OF PRINCIPAL AND SUPERINTENDENT, PRIOR TO CONSTRUCTION.

 ALL MATERIALS SPECIFIED ARE TO BE UTILISED, UNLESS WRITTEN APPROVAL FROM THE SUPERINTENDENT, SUPERVISING RPEQ OR APPROVING AUTHORITY.
- THE CONTRACTOR IS TO UNDERTAKE ALL WORKS IN ACCORDANCE WITH ALL WORKPLACE HEALTH AND SAFETY REQUIREMENTS.
- WHERE ANY EXCAVATION OR CONSTRUCTION WORKS ARE IN CLOSE PROXIMITY TO NEIGHBOURING LOT BOUNDARIES OR INFRASTRUCTURE, THE CONTRACTOR IS TO ALLOW IN SCOPE OF WORKS TO PROVIDE ALL MEASURES NECESSARY TO ENSURE THE INTEGRITY OF EXISTING BOUNDARIES AND INFRASTRUCTURE. THIS MAY INCLUDE THE USE OF LOW VIBRATION EQUIPMENT, TRENCH SHORING ETC AS REQUIRED.
- 12. THE CONTRACTOR SHALL NOTIFY ALL RELEVANT AUTHORITIES AND ENSURE REQUIRED CONDITIONS HAVE BEEN MET PRIOR TO COMMENCEMENT. THE CONTRACTOR SHALL NOTIFY ARCOS GROUP PRIOR TO COMMENCING WORKS AND RECEIVE WRITTEN CONFERMATION THAT THE WORKS CAN COMMENCE.
- CONTRACTOR SHALL PROVIDE AS CONSTRUCTED DRAWINGS FOR ALL CONSTRUCTED WORKS IN ACCORDANCE WITH COUNCIL REQUIREMENTS UNLESS OTHERWISE ADVISED BY ARCOS GROUP.
- 14. THE FOLLOWING HOLD POINT INSPECTIONS WILL BE REQUIRED;
- CONSTRUCTION PRE-START MEETING
- DEMOLITION
- SUBGRADE PROOF-ROLLS
- PRE-SEAL PROOF-ROLLS CONCRETE PRE-POURS
- FINAL INSPECTION
- 15. THE CONSTRUCTION PRE-START MEETING IS AN OPPORTUNITY FOR ALL PARTIES TO DISCUSS CRITICAL ISSUES SUCH AS:
 - KEY OBJECTIVES OF THE EROSION AND SEDIMENT CONTROL PLAN:
 - REQUIRED WATER QUALITY OBJECTIVES:
 - PERFORMANCE MONITORING AND INSPECTION PROCEDURES:
 - IDENTIFICATION OF THE RESPONSIBLE SITE OFFICERS;
 - IDENTIFICATION OF CRITICAL ENVIRONMENTAL CONCERNS;
 - REPORTING PROCEDURES FOR NON-COMPLIANCE ACTIVITIES AND EVENTS

ENVIRONMENTAL MANAGEMENT NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR ALL ENVIRONMENTAL PROTECTION MEASURES BEING IMPLEMENTED ON SITE PRIOR AND DURING CONSTRUCTION.
- NO VEGETATION BEYOND THE EXTENT OF EARTHWORKS OR THAT SHOWN ON THE PLANS IS TO BE UNDERTAKEN WITHOUT PRIOR CONSENT FROM THE SUPERINTENDENT.
- 3. ALL VEGETATION BEING RETAINED ON SITE MUST BE IDENTIFIED AND PROTECTED FROM DAMAGE
- 4. EROSION AND SEDIMENT CONTROL IS THE RESPONSIBILITY OG THE CONTRACTOR AND MUST BE IMPLEMENTED PRIOR TO CONSTRUCTION COMMENCING AND DURING CONSTRUCTION.
- ALL DISTURBED AREAS SHALL BE LEFT IN A STABLE CONDITION. THIS WILL INVOLVE SEEDING OR TURFING WITH APPROPRIATE GRASS SPECIES. ANY DISTURBED SLOPES SHALL BE COVERED WITH A SUITABLE FORM OF EROSION CONTROL. PIPELINES ADJACENT TO SIGNIFICANT TREES MUST BE INSTALLED BY BORING OR DIRECTIONAL DRILLING UNLESS OTHERWISE AGREED WITH THE SUPERINTENDENT.
- TOPSOIL AND SUBSOIL MUST BE STOCKPILED SEPARATELY AND NOT LOCATED UNDER TREE CANOPIES.
- ALL STOCKPILES MUST HAVE APPROPRIATE SEDIMENT CONTROLS IN ACCORDANCE WITH THE ENVIRONMENTAL
- 9. NO SOIL CAN BE STOCKPILED WITHIN 5M OF ANY CREEK OR WATER COURSE.
- ANY SOIL DISTURBED ON SITE IS TO BE REUSED ON SITE. ANY UNSUITABLE MATERIAL NOT REUSED MUST BE DISPOSED OF AT A REGULATED WASTE DISPOSAL FACILITY.

RETAINING WALL NOTES:

- 1. RETAINING WALLS LESS THAN 1m IN HEIGHT TO BE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS. ALL WALLS OVER 1m IN HEIGHT, SUBJECT TO LOADING OF ADJACENT EXISTING STRUCTURES TO BE DESIGNED BY STRUCTURAL RPEC AND REFERENCE IS MADE TO OTHERS.
- SUPPORTED MATERIAL IS TO BE NATURAL INSITU SOIL OR WELL COMPACTED FILL, CAPABLE OF STANDING UNSUPPORTED DURING CONSTRUCTION OF THE WALL

 FILL MATERIAL BEHIND WALL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 200mm DEPTH COMPACTED TO 95% MDD (AS1289) AND TO EXTEND A MINIMUM OF 2m BEYOND THE FRONT FACE OF WALL BEFORE BEING TRIMMED BACK ENSURING SOLID COMPACTION.
- 20mm SCREENINGS BACKFILL MATERIAL IS TO BE GRANULAR, FREE DRAINING AND IN A MEDIUM DENSE CONDITION.
- 5. FOUNDATION TO BE CHECKED BY AN EXPERIENCED GEOTECHNICAL ENGINEER TO CONFIRM BEARING CAPACITY PRIOR TO PLACEMENT OF BLINDING LAYER/FIRST LAYER OF ROCK WALL.
- ALL ROCK TO BE SOUND AND NOT DISPOSED TO DETRIMENTAL WEATHERING.
- EROSION AND SEEPAGE SHALL BE CONTROLLED TO ELIMINATE CONCENTRATED FLOWS OVER OR THROUGH THE COMPLETED WORK
- THROUGH THE COMPLETED WORK.

 8. AG DRAIN TO DISCHARGE TO CONNECT TO STORMWATER AT MAX 30m CENTRES OR DIRECTED TO LAWFUL POINT OF DISCHARGE TO SATISFACTION OF COUNCIL ENGINEERS

 9. THE CONTRACTOR IS RESPONSIBLE FOR THE ADEQUACY OFF ALL TEMPORARY WORKS INCLUDING PROPPING AND BRACING. WHERE NECESSARY THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A STRUCTURAL ENGINEER TO DESIGN AND CERTIFY TEMPORARY WORKS. TEMPORARY PROPPING DURING BACKFILLING PROCEDURES MAY BE REQUIRED.
- THIS DESIGN DOES NOT CONSIDER GLOBAL STABILITY AND IT IS THE RESPONSIBLE OF THE CONTRACTOR TO PROVIDE STABILITY REPORT AND MEASURES AGAINST SITE SLIPPAGE.

- EXCAVATION ADJACENT TO EXISTING PROPERTIES.

 1. A DILAPIDATION REPORT IS REQUIRED BY MAIN CONTRACTOR TO EXISTING STRUCTURES AND ASSET WHICH ARE SENSITIVE TO VIBRATION OR SETTI EMENT.
- 2. EXISTING STRUCTURES SHOULD BE ASSESSED TO ENSURE THESE ARE NOT SUBJECT TO SETTLEMENT
- EXISTING STRUCTURES CROSSES STATE OF A STRUCTURE OF
- THE RELEVANT STAKEHOLDERS.
 5. CONSTRUCTION AND TEMPORARY STABILITY SHOULD BE ASSESSED PRIOR TO EXCAVATION

- COMPACT THE EXPOSED SUBGRADE OR LOOSE TOP LEVEL MATERIAL TO A MINIMUM 100% STANDARD MAXIMUM DRY DENSITY (MDD) TO A51289. ANY 'SOFT SPOTS' IDENTIFIED BY THE PROOF ROLLING SHALL BE REMOVED AND REPLACED WITH A COMPACTED IMPORTED GENERAL FILL MATERIAL TO THE ABOVE COMPACTION
- ALL EXPOSED SUBGRADE AREAS SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS.
- GEOTECHNICAL INVESTIGATIONS REQUIRED IN ORDER TO DETERMINE SUBGRADE PROPERTIES & PREPARATION DETAILS. CONTRACTOR TO UNDERTAKE 4-DAY SOAKED CBR ON EXISTING SUBGRADE AND RESULTS TO BE A MINIMUM OF 5%. TESTING TO BE PROVIDED TO SUPERVISING ENGINEER PRIOR TO PROOF ROLL.
- 4. LEVELS SHOWN ARE FINISHED SURFACE LEVELS INCLUSIVE OF TOPSOIL LAYER OR BUILDING SLAB THICKNESS. 5. FINISHED SURFACES TO ALL DISTURBED AREAS ARE TO BE TREATED IN ACCORDANCE WITH LANDSCAPE
- DRAWINGS AND/OR TYPICAL SECTIONS. 6. CONTRACTOR TO OBTAIN ROADWORKS AND FOOTPATH PERMITS FOR ANY PROPOSED WORKS EXTERNAL TO THE SITE BOUNDARY.
- 7 SUBSOIL DRAINAGE LINDER KERBS TO BE IN ACCORDANCE WITH IPWEA STD DRG RS-140.
- ALL TEMPORARY AND FINAL BATTER SLOPES ARE TO BE INSPECTED BY AN APPROVED GEOTECHNICAL ENGINEER.

EARTHWORKS NOTES:

- ALL EXCAVATION AND FILLING SHALL BE CONSTRUCTED IN ACCORDANCE WITH AS3798 AND IN ACCORDANCE WITH THE CURRENT LOCAL AUTHORITY AND ARCOS SPECIFICATIONS.
- 2. ALL DRAINAGE, EROSION AND SEDIMENT CONTROLS TO BE INSTALLED AND FULLY OPERATIONAL BEFORE COMMENCING UP-SLOPE EARTHWORKS
- THE CONTRACTOR SHALL REMOVE ALL STRUCTURES, DEBRIS AND FENCES FROM THE SITE TO THE SATISFACTION OF THE SUPERINTENDENT.
- EXISTING SURFACE IS TO BE CLEAR OF ORGANIC MATERIAL PRIOR TO THE START OF FILLING.
- FILL IS TO BE OF GOOD QUALITY AND FREE OF UNSUITABLE MATERIAL
- FILL TO BE PLACED IN MAXIMUM 200mm LIFTS, UNLESS APPROVED OTHERWISE BY A SUITABLY QUALIFIED CONSULTANT, AND COMPACTED TO SPECIFICATION.
- NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION. SIMILARLY, THE FINISHED SURFACE LEVELS MAY BE ADJUSTED BY THE WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION AFTER AMENDED DRAWINGS HAVE BEEN APPROVED BY COUNCIL.
- ALL AREAS SUBJECT TO EARTHWORKS ARE TO BE FREE DRAINING WITH A MINIMUM SLOPE OF 1:100 (1%).
- ALL DRAINAGE STRUCTURES ARE TO BE PRESERVED FROM THE EFFECTS OF STRUCTURAL LOADING GENERATED BY THE EARTHWORKS.
- 10. ANY AREA DISTURBED OUTSIDE OF THE WORKS AREA SHOWN SHALL BE REHABILITATED TO A MINIMUM OF THE PRE-CONSTRUCTION CONDITIONS, AT THE CONTRACTORS EXPENSE
- 11. EARTHWORKS BATTERS ARE TO BE TREATED AS FOLLOWS:
 - 1:4 OR FLATTER TO BE GRASS SEEDED U.N.O
 - STEEPER THAN 1:4 TO BE MUILCHED & PLANTED IN ACCORDANCE WITH THE LANDSCAPE PLANS.
- TREE REMOVAL WORKS TO BE UNDERTAKEN BY A SUITABLY QUALIFIED AND INSURED CONTRACTOR. TIMBER IS
 TO BE REMOVED, REUSED OR RECYCLES IN AN APPROPRIATE AND A SUSTAINABLE MANNER WHERE POSSIBLE.

STORMWATER DRAINAGE NOTES:

- ALL STORMWATER DRAINAGE HAS BEEN DESIGNED AND IS TO BE CONSTRUCTED IN ACCORDANCE WITH AS3500, LOCAL COUNCIL AUTHORITY REQUIREMENTS, IPWEA AND QUDM.
- 2. EXCAVATION, BEDDING AND BACKFILLING OF STORMWATER DRAINAGE PIPES TO BE IN ACCORDANCE WITH
- 3. ALL MANHOLES TO BE MIN 1050mm DIAMETER IN ACCORDANCE WITH IPWEA STD DRG DS-010.
- ALL GRATES & MANHOLE COVERS LOCATED WITHIN ROADWAY TO BE SOLID DUCTILE CAST IRON CLASS 'D', AND WHERE NOT LOCATED WITHIN ROADWAY TO BE CLASS 'B' U.N.O, IN ACCORDANCE WITH IPWEA STD DRG DS-019 & DS-020.
- 5. ALL GULLY PITS TO BE LIP IN LIL (L.I.L) U.N.O IN ACCORDANCE WITH IPWEA STD DRG DS-063.
- ALL FIELD INLETS TO BE IN ACCORDANCE WITH IPWEA STD DRG DS-050.
- ALL REINFORCED CONCRETE PIPES ARE TO BE INSTALLED USING TYPE 'HS2' SUPPORT U.N.O AS DEFINED IN AS3725 LOADS ON BURIED CONCRETE PIPES. IF ALTERNATIVE BEDDING METHODS ARE TO BE USED THE PIPE CLASS MUST BE REVIEWED.
- ALL PIPES ABOVE 300Ø RCP TO BE RRJ CLASS 3 U.N.O. PIPES 300Ø AND BELOW TO BE UPVC U.N.O. HDPE/PP MAY BE USED AS AN RCP ALTERNATIVE FOR INTERNAL AND COUNCIL STORMWATER WHERE APPROVED BY THE SUPERVISING ENGINEER AND COUNCIL WHERE REQUIRED.
- 8. STORMWATER PIPE CLASSES HAVE BEEN DESIGNED FOR SERVICE LOADS ONLY, THE CONTRACTOR SHALL ASSESS ANTICIPATED CONSTRUCTION LOADS AND UPGRADE THE PIPE CLASSES, IF NECESSARY, IN ACCORDANCE WITH AS3725, AT THE CONTRACTORS COST.
- UNLESS DIRECTED OTHERWISE STORMWATER STRUCTURES INCLUDING HEADWALLS ARE TO HAVE AG-PIPE DRAINAGE STUBS (WITH END CAP) TO DEWATER DRAINAGE TRENCH.
- 10. THE CONTRACTOR IS TO CONSIDER CONSTRUCTION LOADING ON EXISTING AND NEW STORMWATER PIPES
- 11. ALL PIPE PENETRATIONS WILL BE NEATLY MORTARED ON THE INSIDE FACE OF MANHOLES/PITS
- 12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL TRENCH EXCAVATION AND CONSTRUCTION IS IN ACCORDANCE WITH CURRENT CONSTRUCTION SAFETY ACT AND WORKPLACE HEALTH AND SAFETY LEGISLATION
- 13. THE CONTRACTOR IS TO TAKE ALL POSSIBLE MEASURES TO ENSURE PROPER COMPACTION TO BACKFILLING OF TRENCHES AND STRUCTURES.
- 14. THE CONTRACTOR SHALL DEMONSTRATE NO DAMAGE TO EXISTING STORMWATER INFRASTRUCTURE HAS OCCURRED DURING THE CONSTRUCTION OF THESE WORKS.
- UPON COMPLETION, ALL STORMWATER DRAINAGE INFRASTRUCTURE WILL BE CLEAR OF DEBRIS AND OTHER BLOCKAGES. THE CONTRACTOR IS TO PROVIDE A CCTV SURVEY OF ALL NEWLY CONSTRUCTED STORMWATER ASSETS FOR APPROVAL BY THE ENGINEER AND/OR LOCAL AUTHORITY.
- 16. ALL DEFECTS IDENTIFIED BY THE CCTV SURVEY WILL BE REPAIRED TO A SATISFACTORY STANDARD BY ALL DEPORTS IDENTIFIED BY THE COLVESTING WHITE REPAIRS OF REPAIRS OF A SALISFACTOR PAYMENT FOR THESE REPAIRS WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, UNLESS IT CAN BE DEMONSTRATED THAT THE IDENTIFIED DAMAGE WAS PRE-EXISTING AND THE RESPONSIBILITY OF OTHER PARTIES.
- 17. RESIDENTIAL DRAINAGE CONNECTIONS TO KERB AND CHANNEL IN ACCORDANCE WITH IPWEA STD DRG

REINFORCED CONCRETE NOTES:

CONCRETE SHALL BE IN ACCORDANCE WITH AUSTRALIAN STANDARD SPECIFICATIONS

AS 3600 - "SAA CONCRETE STRUCTURES CODE".

IN ADDITION TO THE ABOVE CODE THE FOLLOWING AUSTRALIAN STANDARD SPECIFICATIONS AND CODES OR THEIR LATEST REVISION SHALL APPLY:

- AS1012 PARTS 1-19 METHODS FOR THE TESTING OF CONCRETE (METRIC UNITS)
- ${\tt AS3583.1,2,3,8-METHODS\ OF\ TEST\ FOR\ SUPPLEMENTARY\ CEMENTITIOUS\ MATERIALS\ FOR\ USE\ WITH\ PORTLAND\ CEMENT$
- AS3582.1 SUPPLEMENTARY CEMENTITIOUS MATERIALS FOR USE WITH PORTLAND CEMENT-FLY ASH
- AS1141 METHODS FOR SAMPLING AND TESTING AGGREGATES
- AS1302 STEEL REINFORCING BARS FOR CONCRETE
- AS1303 HARD DRAWN STEEL REINFORCING WIRE FOR CONCRETE
- AS1304 HARD DRAWN STEEL WIRE REINFORCING FABRIC FOR CONCRETE
- AS3972 PORTLAND AND BLENDED CEMENTS
- AS1379 READY-MIXED CONCRETE (METRIC UNITS)
- AS2758 CONCRETE AGGREGATES
- AS1478. AS1479 CODE OF PRACTICE FOR USE OF CHEMICAL ADMIXTURES IN CONCRETE AS3610 - FORMWORK FOR CONCRETE
- ALL CONCRETE IS TO BE SUPPLIED BY A LICENSED READY MIXED CONCRETE MANUFACTURER. NO ON SITE BATCHING IS ACCEPTABLE.
- MANUFACTURERS MUST HAVE AN APPROVED AND CERTIFIED QUALITY ASSURANCE PROGRAM IN PLACE
 AND BE APPROVED BY THE ENGINEER PRIOR TO SUPPLY OF ANY CONCRETE.
- ALL MATERIALS, STORAGE, BATCHING, ETC TO CONFORM TO THE REQUIREMENTS OF THE RELEVANT AUSTRALIAN STANDARDS.
- ALL CONCRETE TO BE NORMAL-CLASS IN ACCORDANCE WITH AS3600 UNLESS NOTED OTHERWISE. ALL CONCRETE SHALL HAVE A SHRINKAGE STRAIN NOT EXCEEDING 600 MICROSTRAIN.
- ALL CONCRETE IS SPECIFIED BY 28 DAY COMPRESSIVE STRENGTH U.N.O.
- ALL REINFORCEMENT TO BE SUPPLIED BY A REGISTERED MANUFACTURER WITH AN APPROVED AND CERTIFIED QUALITY
- ASSURANCE PROGRAM IN PLACE. ALL REINFORCEMENT IS TO COMPLY WITH THE REQUIREMENTS OF AS1302, AS1303 AND AS1304 AS APPLICABLE.
- ALL REINFORCEMENT IS TO BE DELIVERED TO SITE FREE FROM OIL, GREASE OR OTHER SURFACE COATINGS WHICH MAY IMPAIR BOND TO CONCRETE.
- 10. ALL REINFORCEMENT TO BE 500 MPA MINIMUM YIELD U.N.O.

FORMWORK

- ALL CONCRETE OTHER THAN CAST AGAINST GROUND, SHALL BE PLACED AGAINST TIMBER, PLYWOOD OR STEEL FORMS.
- 2. ALL FORMWORK SHALL COMPLY WITH THE REQUIREMENTS OF AS1509 AND AS1510
- REFER ARCHITECT'S DRAWINGS FOR REQUIRED FORMWORK CLASS WHERE APPLICABLE. CLASS B FORMWORK SHALL BE ADOPTED U.N.O.
- 4 ALL TEMPORARY FORMWORK FALSEWORK PROPPING BRACING TO BE DESIGNED AND CERTIFIED BY A 4. ALL TEMPORARY FORWINGEN, FALSEWORK, PROPING, BRAZING, TO BE DESIGNED AND CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER (RPEQ) PRIOR TO ERECTION.

 5. ALL REINFORCEMENT TO BE SUPPORTED OFF FORMS WITH PLASTIC OR PLASTIC TIPPED WIRE CHAIRS TO PROVIDE THE SPECIFIED COVER. ALL CONCRETE CAST AGAINST GROUND TO BE UNDERLAIN BY WATERPROOF MEMBRANE.

TRANSPORT

ALL CONCRETE IS TO BE TRANSPORTED TO SITE IN AGITATOR TRUCKS. CONCRETE NOT PLACED WITHIN ONE HOUR AFTER BATCHING MAY BE REJECTED AT THE ENGINEER'S DISCRETION

PLACEMENT, COMPACTION AND FINISHING

- CONCRETE TO BE PLACED IN FORMS BY HORIZONTAL 'CHUTING' NO MORE THAN 3m³, CONCRETE PUMPING OR KIBBLING. UNDER NO CIRCUMSTANCES SHALL CONCRETE BE INDUCED TO FLOW HORIZONTALLY BY
- ALL CONCRETE SHALL BE PLACED CONTINUOUSLY BETWEEN CONSTRUCTION JOINTS AS DETAILED, IN SUCH A MANNER AS TO A VOID 'COLD JOINTS'. CONSTRUCTION JOINTS SHALL BE LOCATED AS DETAILED ON DRAWINGS OR AS INSTRUCTED IN WRITING BY THE ENSINEER.
- ALL CONCRETE IS TO BE COMPACTED UPON PLACEMENT USING 50MM DIAMETER VIBRATORS
- SLABS AND BEAMS ARE TO HAVE A FILM OF APPROVED ALPHATIC ALCOHOL APPLIED TO THE SURFACE, DIRECTLY AFTER SCREEDING, PRIOR TO FLOATING, REGARDLESS OF WEATHER CONDITIONS. ADDITIONAL PROTECTIVE MEASURES SUCH AS CHILLED MIX WATER, SHADING PLACEMENT AREAS, WIND BREAKS, ETC MAY BE REQUIRED BY THE ENGINEER IF PLACING CONCRETE DURING UNUSUALLY HOT, DRY
- OR WINDY CONDITIONS. ALL CONCRETE SLABS SHALL BE STEEL TROWEL FINISHED U.N.O.
- BROOM FINISHING, WHERE SPECIFIED, SHALL BE CARRIED OUT AFTER STEEL TROWEL FINISHING. ALL CONCRETE TO BE ORDERED AND PLACED AT 80MM SLUMP U.N.O.

NO WATER TO BE ADDED ON SITE UNLESS APPROVED BY THE ENGINEER.

- ALL CONCRETE TESTING IS TO BE CARRIED OUT BY A NATA REGISTERED LABORATORY, IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF AS1012.
- 2. THE FOLLOWING TESTING SCHEDULE IS TO BE ADOPTED IN ADDITION TO THE REQUIREMENTS OF THE MANUFACTURER'S QUALITY ASSURANCE PROGRAM:
- A MINIMUM OF ONE TEST (3 CYLINDERS) TO BE TAKEN FROM EACH ELEMENT CAST ON ANY GIVEN DAY (EG. COLUMNS, FOOTINGS, ETC)
- A MINIMUM OF ONE TEST (3 CYLINDERS) TO BE TAKEN FROM EACH CONCRETE STRENGTH GRADE CAST ON ANY GIVEN DAY. A MINIMUM OF ONE TEST (3 CYLINDERS) TO BE TAKEN FROM EACH 50M3 OR PART THEREOF CAST ON
- A GIVEN DAY FOR EACH STRENGTH GRADE. ALL SAMPLES ARE TO BE TAKEN FROM THE AGITATOR, ON SITE. IF WATER IS ADDED ON SITE, WITH THE ENGINEER'S PERMISSION, SAMPLES FOR TESTING SHALL BE TAKEN AFTER THE ADDITION OF WATER.
- ALL CONCRETE IS TO BE CURED BY AN APPROVED METHOD FOR A MINIMUM OF 28 DAYS AFTER FINISHING. CURING METHOD IS TO BE APPROVED BY THE ENGINEER PRIOR TO CONCRETE PLACEMENT AND SHALL GENERALLY CONSIST OF ONE OR A COMBINATION OF THE FOLLOWING METHODS:
- CONTINUOUS WATER PONDING
- COMPLETE ENCASEMENT IN A WATERPROOF FILM (EG. POLYTHENE). APPLICATION OF AN APPROVED CURING COMPOUND.

OPW24/0426

loriz. Datu LOCAL Drawing No. Rev No AURA 1 INTO 2 LOTS URBAN SUBDIVISION **GENERAL NOTES & DETAILS** JCL ARCOS **PROPERTY** OPPERATIONAL WORKS - CIVIL В 230633 OPW-C-011 23 STEVENS STREET AK YANDINA, QLD, 4561 24.09.24 LACHLAN SWANN Α1



WARNING

BEWARE OF UNDERGROUND SERVICES

OSITION OF EXISTING UNDERGROUND SERVICES SHOW IS APPROXIMATE ONLY. EXACT POSITION SHALL BE PROVEN ON SITE BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION

LOCATION OF SERVICES

PRIOR TO COMMENCEMENT OF NEW WORK THE CONTRACTOR SHALL CONFIRM LOCATIONS, LEVELS AND DETAILS OF EXISTING CONNECTION POINTS AND SERVICE CROSSINGS BY POT HOLING. IF A VARIATION OCCURS
CONTACT THE ENGINEER PRIOR TO CONSTRUCTION.

PROTECTION OF SERVICES

THE CONTRACTOR SHALL CONTACT THE RELEVANT AUTHORITIES AND ARRANGE FOR RELOCATION AND / OR PROTECTION OF EXISTING SERVICES AS REQUIRED TO SUIT SURROUNDING NEW WORK, CONSTRUCTION LOADINGS AN TO SUIT FINAL FINISHED SURFACE LEVELS AND GRADES.

SETTING OUT

DESIGN FINISHED SURFACE LEVELS OF STRUCTURES ARE FOR THE CONTRACTOR'S GUIDANCE ONLY. ACTUAL FINISHED LEVELS SHALL BE SET OUT AS DIRECTED ON-SITE IN KEEPING WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL AUTHORITY AND ACTUAL FINISHED GROUND LEVELS.

RETAINING WALLS
RETAINING WALL UNDER 1m HIGH TO
MANUFACTURES SPECIFICATIONS FOR DETAILS.
RETAINING WALL GREATER THAN 1m HIGH, DESIGN
AND CERTIFICATION TO BE PROVIDED BY OTHERS

CONCRETE SLEEPER WALL REQUIREMENTS
PATTERNED AND CCS OF THE SAME VARIETY, PATTERN TO BE
EITHER TIMBER OR STONE, COLOUR TO BE EITHER RAILWAY
SLEEPER, BROWN OR SANDSTONE.
SUPPORT POSTS TO BE PAINTED IN ACCORDANCE WITH AS 2312,
DEVELOPMENT WORKS PLANNING SCHEME POLICY (PSP) AND TO MATCH COLOUR OF SLEEPER.

WALL CERTIFICATION NOTES:

DESIGN CERTIFICATION (FORM 15) SHALL BE PROVIDED TO CERTIFYING ENGINEER, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, FOLLOWING THE APPOINTMENT OF A D&C

NSPECTION CERTIFICATION (FORM 12) SHALL BE PROVIDED T COUNCIL FOLLOWING SUPERVISED CONSTRUCTION OF THE PROPOSED RETAINING WALLS.

WALL DESIGN & SPECIFICATION NOTES:

MENSIONS ARE INDICATIVE ONLY, THE CONTRACTOR IS TO GAGE A CONSULTANT FOR SITE SPECIFIC DESIGN & NSTRUCTION SPECIFICATIONS, DETAIL DRAWINGS & DESIGN RIFICATION.

SUNSHINE COAST REGIONAL COUNCIL

APPROVED

25 FEB 2025

