

TAMWORTH REGIONAL AQUATIC CENTRE AND NORTHERN INLAND CENTRE OF SPORT AND HEALTH CIVIL WORKS DRAWINGS

STANDARD NOTES

GENERAL NOTES

- DRAWINGS AND SPECIFICATIONS TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT AND THE GENERAL CONDITIONS OF CONTRACT.
- THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCING CONSTRUCTION.
- PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED IN PARTICULAR THE REQUIRED NOTIFICATIONS MUST BE CONVEYED TO WORKSAFE NSW WITH RESPECT TO TRENCHING OPERATIONS. DETAILS OF THE CONTRACTORS OCCUPATIONAL HEALTH AND SAFETY PROCEDURES MUST BE LODGED WITH THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
- DRAINAGE PIPES SHALL BE RUBBER RING JOINTS REINFORCED CONCRETE CLASS 2, UNLESS OTHERWISE SHOWN.
- DRAINAGE PIPES AND PITS ARE SET OUT FROM OFFSETS, RATHER THAN FROM CENTERLINE PIPE CHANGES.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UNDERGROUND SERVICES PRIOR TO COMMENCING EXCAVATIONS AND THE VARIOUS AUTHORITIES ARE TO BE NOTIFIED. IN ADDITION, THE CONTRACTOR SHALL ADMINISTER A LEVEL SURVEY TO ADD TO VERIFY ALL EXISTING STAGE 1 AS-CONSTRUCTED DRAINAGE PREWORK INVERT LEVELS INCLUDING THE LIFTING OF STORMWATER PITS AS REQUIRED AND PROVIDE THE INVERT LEVELS TO THE SUPERINTENDENT FOR REVIEW AND CONSIDERATIONS PRIOR TO THE COMMENCEMENT OF ANY OTHER WORKS. SHOULD ANY EXISTING SERVICES BE DAMAGED DURING CONSTRUCTION WORKS, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR REPAIRS. ALL COSTS FOR THIS SHALL BE BORNE BY THE CONTRACTOR.
- UPON COMPLETION OF CONSTRUCTION, THE WHOLE SITE SHALL BE CLEANED UP & GRADED OVER AND ALL RUBBISH IS TO BE REMOVED. THE SITE IS TO BE LEFT CLEAN & TIDY AND TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT.
- EARTHWORKS ARE TO BE PERFORMED IN ACCORDANCE WITH A.S.3798:2007 (GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS).
- FILLING TO BE CARRIED OUT USING APPROVED CLAY FILL COMPACTED TO 95% AASHO. DAMS AND OPEN CHANNELS TO BE EXCAVATED TO A FIRM BASE TO THE SATISFACTION OF A SATISFABLY QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO COMMENCEMENT OF FILLING.
- ALL FILLING MUST COMPLY WITH A.S. 3798:2007 LEVEL 1 AND BE COMPACTED IN 150MM LAYERS.
- CONTRACTOR TO TAKE LEVELS IN EXISTING DAMS AND CHANNELS PRIOR TO FILLING LEVELS RECORDED TO BE SUPPLIED TO THE ENGINEER FOR AS CONSTRUCTED PLANS.
- FILLING TO BE CARRIED OUT USING APPROVED MATERIAL. TOPSOIL AND ALL VEGETABLE MATERIAL TO BE STRIPPED FROM FILL SITE PRIOR TO ANY PLACEMENT OF MATERIAL. ALL FILLING TO BE CARRIED OUT IN 150MM LAYERS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY.
- FILL AREAS TO BE STRIPPED OF TOPSOIL, THEN REPLACED TO OBTAIN FINAL LEVELS AS SHOWN ON THE DRAWINGS. ALL FILLING TO BE COMPACTED AS SPECIFIED. NO TOP SOIL TO BE REMOVED FROM THE SITE WITHOUT THE APPROVAL OF COUNCIL.
- ALL DRAINAGE PIPES UNDER ROAD PAVEMENT, DRIVEWAY, FOOTPATH & KERB AND CHANNEL SHALL BE BACKFILLED WITH CLASS 3 F.C.R.
- THE CONTRACTOR SHALL CO-OPERATE WITH OTHER CONTRACTORS AND/OR AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE. THE CONTRACTOR SHALL CHECK WITH THE ENGINEER THE EXACT LOCATION OF ALL PROPOSED SERVICES PRIOR TO THE INSTALLATION OF CONDUITS. ALL WORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT.
- SUBSURFACE DRAINS ARE TO BE LAID BEHIND ALL KERB AND CHANNEL.
- ALL TRENCHING AND EXCAVATION WORKS SHALL BE UNDERTAKEN IN STRICT ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND THE SAFEWORK NSW CODE OF PRACTICE - EXCAVATION WORK - JANUARY 2020 PRIOR TO COMMENCING WORK ON TRENCHES IN EXCESS OF 1.50M DEEP. A SAFE WORK METHOD STATEMENT (SWMS) MUST BE PREPARED IN ACCORDANCE WITH SAFEWORK NSW GUIDELINES. UPON REQUEST, THE CONTRACTOR SHALL PROVIDE THE SUPERINTENDENT WITH PROOF OF RELATED SWMS AS REQUIRED.
- THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL NECESSARY SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP THE WORKS IN A SAFE AND STABLE CONDITION TO PROTECT THE PUBLIC FROM THE WORKS.
- SIGNS, LINEMARKING AND DELINEATORS ARE TO BE INSTALLED AS APPLICABLE ON ROADS IN ACCORDANCE WITH A.S.1742.2.
- PERMANENT SURVEY MARK SKETCH PLANS ARE TO BE PREPARED ESTABLISHING A.H.D. LEVELS AND A.M.G. CO-ORDINATES FOR REGISTRATION WITH THE C.P.O. BY A LICENSED SURVEYOR.
- FOR THE TERM OF THE CONTRACT PERIOD THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTION TO PREVENT THE EMISSION OF DUST, WHETHER FROM THE OPERATION OF CONSTRUCTION EQUIPMENT OR EXPOSURE OF SOIL TO WINDS.
- APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING CONSTRUCTION AND MAINTENANCE PERIOD.
- ANY TREE REMOVAL MUST BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN OR AS DIRECTED ON SITE BY THE LANDSCAPE APPROVALS OFFICER.
- TREES SHOWN ON THE PLANS ARE TO BE RETAINED AND PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- ALL ROOTS AND DECOMPOSABLE MATERIAL UNDER ROAD PAVEMENTS SHALL BE REMOVED TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT.

RAIN GARDEN FILTER MEDIA COMPONENT NOTES:

- ALL FILTER MEDIA USED FOR THE WORKS IS TO BE APPROPRIATELY TESTED IN ACCORDANCE WITH THE FOLLOWING NOTES AND A COPY OF RESULTS SENT TO THE PROJECT SUPERINTENDENT PRIOR TO THE MATERIAL BEING PLACED ON SITE.
- FILTER MEDIA SHALL HAVE A SATURATED HYDRAULIC CONDUCTIVITY IN THE RANGE OF 250-350 MMH UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT. SATURATED HYDRAULIC CONDUCTIVITY OF POTENTIAL FILTER MEDIA SHOULD BE MEASURED USING THE ASTM F1815-08 METHOD.
- FILTER MEDIA, WHICH COMPLY WITH THE PARTICLE SIZE GRADING OUTLINED BELOW, WILL GENERALLY MEET SATURATED HYDRAULIC CONDUCTIVITY SPECIFICATIONS.
- THE FILTER MEDIA SHOULD BE WELL-GRADED I.E. IT SHOULD HAVE ALL PARTICLE SIZE RANGES PRESENT FROM THE 0.075 MM TO THE 4.75 MM SIEVE (AS DEFINED BY AS1289.3.6.1 - 1999). THERE SHOULD BE NO GAP IN THE PARTICLE SIZE GRADING, AND THE COMPOSITION SHOULD NOT BE DOMINATED BY A SMALL PARTICLE SIZE RANGE.
- FILTER MEDIA THAT DO NOT MEET THE FOLLOWING ADAPTED AS4119 - 2003 - SOILS FOR LANDSCAPING AND GARDEN USE SPECIFICATION SHOULD BE REJECTED.
 - ORGANIC MATTER CONTENT - LESS THAN 5% (W/W). AN ORGANIC CONTENT HIGHER THAN 5% IS LIKELY TO RESULT IN LEACHING OF NUTRIENTS.
 - PH: AS SPECIFIED FOR NATURAL SOILS AND BLENDS' S 5.5-7.5 (PH 1.5 IN WATER).
 - ELECTRICAL CONDUCTIVITY (EC) - AS SPECIFIED FOR NATURAL SOILS AND SOIL BLENDS <1.2 DSM.
 - PHOSPHORUS - < 100 MG/KG. SOILS WITH PHOSPHORUS CONCENTRATIONS > 100 MG/KG SHOULD BE TESTED FOR POTENTIAL LEACHING.
- POTENTIAL FILTER MEDIA SHOULD GENERALLY BE ASSESSED BY A HORTICULTURALIST TO ENSURE THAT THEY ARE CAPABLE OF SUPPORTING A HEALTHY VEGETATION COMMUNITY. THIS ASSESSMENT SHOULD TAKE INTO CONSIDERATION DELIVERY OF NUTRIENTS TO THE SYSTEM BY STORMWATER.
- THE TRANSITION LAYER SHALL CONSIST OF WASHED SAND WITH 80% PARTICLES RETAINED ABOVE 0.25mm THE HYDRAULIC CONDUCTIVITY OF THE TRANSITION LAYER IS TO BE NO LESS THAN 450mmHR.
- THE DRAINAGE LAYER SHALL BE COMPOSED OF CLEAN STONE WITH ALL PARTICLES BETWEEN 4.0mm AND 7.0mm IN SIZE.
- SCORIA OR QUARTZ ARE NOT SUITABLE MATERIAL FOR USE AS A DRAINAGE LAYER.

GENERAL NOTES (CONT.)

- ALL TREES IN OR ADJACENT TO THE SUBJECT SITE MARKED FOR RETENTION SHALL BE FENCED IN ACCORDANCE WITH SOL 2.02 AND SOL 2.03 (SEE GUIDELINES FOR URBAN DEVELOPMENT) PRIOR TO THE COMMENCEMENT OF WORKS.
- NO SURPLUS TREES OR VEGETATION ARE TO BE BURNED ON SITE.
- CONCRETE SHALL BE 25 MPa FOR BOTH KERB AND CHANNEL AND FOOTPATH, HAVING A MINIMUM CEMENT CONTENT OF 280KG PER CUBIC METRE.
- ON COMMENCEMENT OF CONSTRUCTION WORKS THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE EPA PUBLICATION 'CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL' (PUBLICATION NO. 275).
- ALL TBMS AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE CONSULTANT TO ARRANGE REINSTATEMENT AT THE CONTRACTORS EXPENSE.
- NO TOPSOIL IS TO BE REMOVED FROM SITE WITHOUT THE APPROVAL OF COUNCIL.
- FOOTPATHS AND VEHICLE CROSSINGS TO BE DOWELLED AT THE END OF EACH DAY'S POUR OF CONCRETE.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
- ANY EXISTING PAVEMENT OR DRAINAGE DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD IS TO BE REINSTATEMENT BY THE CONTRACTOR TO THE SATISFACTION OF THE SUPERINTENDENT.
- PAVEMENT SUB-BASE AND BEDDING TO KERB & CHANNEL IS TO EXTEND 150MM BEHIND BACK OF KERB.
- UPON COMPLETION OF THE CIVIL WORKS, THE CONTRACTOR SHALL PROVIDE A FULL AND DETAILED AS CONSTRUCTED FEATURE AND LEVEL SURVEY ADMINISTERED BY A LICENSED SURVEYOR TO AND OF THE FOLLOWING:
 - ALL IN-GROUND STORMWATER DRAINAGE INCLUDING PIT LOCATIONS AND COORDINATES, PIPE ALIGNMENTS, PIPE INVERT LEVELS AT PIT JUNCTIONS AND ALL OTHER RELEVANT STORMWATER DRAINAGE ELEMENTS SUCH AS GRATED TRENCHES ETC.
 - ALL PAVEMENTS AND ASSOCIATED KERBING AND OTHER FEATURES FOR THE FULL EXTENT OF THE AREA OF WORKS TO CLARIFY A FULL FEATURE AND LEVEL SURVEY OF ALL PAVEMENTS, PATHS, BUILDING FOOTPRINT (INCLUDING FILL, IN AND OUTDOOR POOLS INCLUDING LEVELS TO THE FRONT AND BACK OF THE POOL WETDECKS AS WELL AS THE POOL FLOOR WITH LEVEL INTERVALS RECORDED AT NO LESS THAN EVERY 5m AROUND THE POOL PERIMETER AND ALL OTHER EXTERNAL WORK FEATURES.
- PRIOR TO THE ISSUE OF STATEMENT OF COMPLIANCE, ALL DRAINS ARE TO BE CCTV TESTED AND THE RESULTS PROVIDED TO COUNCIL.
- NBN PITS ARE TO BE CLEAR OF PATHS.
- ALL PAVEMENT MATERIALS SHALL BE TFSW CERTIFIED MATERIALS AND PROOF OF TFSW CERTIFICATION SHALL BE PROVIDED PRIOR TO THE USE OF ANY CRUSHED ROCK MATERIALS. ANY UNAUTHORISED USE OF NON-TFSW CERTIFIED MATERIALS WILL BE CONSIDERED DEFECTIVE WORKS.
- THE CONTRACTOR SHALL UNDERTAKE ALL EARTHWORKS INCLUDING ALL SUBGRADE PREPARATION, FILL WORKS AND PAVEMENT CONSTRUCTION UNDER LEVEL 1 GEOTECHNICAL SUPERVISION. UPON THE COMPLETION OF SUBGRADE PREPARATION, OR EACH LAYER OF PLACE FILL OR PAVEMENT LAYER, THE CONTRACTOR'S GEOTECHNICAL CONSULTANT SHALL PROVIDE PROOF OF ALL RELEVANT TESTING AND A LEVEL 1 CERTIFICATE THAT CERTIFIES ALL WORKS COMPLY WITH THE CONTRACT DOCUMENTS AND THE RELEVANT AUSTRALIAN STANDARDS. THE SAME REQUIREMENTS APPLY TO ALL POOL BASE PREPARATION WORKS.
- THE CONTRACTOR AND THEIR ENGAGED GEOTECHNICAL ENGINEER SHALL ADMINISTER THE FOLLOWING TESTING AS A MINIMUM AND SHALL SEEK WRITTEN APPROVAL FROM THE SUPERINTENDENT PRIOR TO PROCEEDING WITH THE SUBSEQUENT STAGE OF WORKS WITH RESPECT TO ANY SUBGRADE PREPARATION, FILL PLACEMENT OR PAVEMENT CONSTRUCTION:
 - STABILISED SUBGRADE: UPON COMPLETION OF PREPARATION, STABILISATION AND COMPACTION, THE CONTRACTOR SHALL ADMINISTER A MINIMUM OF 1 COMPACTION TEST FOR EVERY 250SQM ACROSS THE AREA OF SUBGRADE OR A MINIMUM OF 10 TESTS, WHICHEVER IS GREATER. THE GEOTECHNICAL CONSULTANT SHALL ALSO WITNESS A PROOF ROLL INSPECTION ACROSS THE FULL EXTENT OF THE AREA PREPARED.
 - NON-STABILISED SUBGRADE: UPON COMPLETION OF PREPARATION AND COMPACTION, THE CONTRACTOR SHALL ADMINISTER A MINIMUM OF 1 COMPACTION TEST FOR EVERY 250SQM ACROSS THE AREA OF SUBGRADE OR A MINIMUM OF 10 TESTS, WHICHEVER IS GREATER. THE GEOTECHNICAL CONSULTANT SHALL ALSO WITNESS A PROOF ROLL INSPECTION ACROSS THE FULL EXTENT OF EACH PAVEMENT LAYER.
 - FILL PLATFORM LAYERS: UPON COMPLETION OF PREPARATION AND COMPACTION, THE CONTRACTOR SHALL ADMINISTER A MINIMUM OF 1 COMPACTION TEST FOR EVERY 250SQM ACROSS EACH 250MM THICK LAYER OF FILL PLACED AND COMPACTED AS PART OF THE PROJECT WORKS.
 - PAVEMENT LAYERS: UPON COMPLETION OF PREPARATION AND COMPACTION, THE CONTRACTOR SHALL ADMINISTER A MINIMUM OF 1 COMPACTION TEST FOR EVERY 250SQM ACROSS THE PAVEMENT ROCK LAYER OR A MINIMUM OF 10 TESTS, WHICHEVER IS GREATER. THE GEOTECHNICAL CONSULTANT SHALL ALSO WITNESS A PROOF ROLL INSPECTION ACROSS THE FULL EXTENT OF EACH PAVEMENT LAYER.
 - CONCRETE PAVEMENT: PRIOR TO PLACEMENT OF ANY CONCRETE, THE CONTRACTOR SHALL ENGAGE A REGISTERED CIVIL ENGINEER TO ADMINISTER AN INSPECTION OF THE CONCRETE PAVEMENT REINFORCEMENT INCLUSIVE OF ALL SAW-CUT AND CONSTRUCTION JOINT DOWEL SYSTEMS. THE CIVIL ENGINEER SHALL PROVIDE A R126 CERTIFICATION THAT THE INSPECTED REINFORCEMENT COMPLIES WITH THE CIVIL DOCUMENTATION PACKAGE.
 - SERVICE TRENCH BACKFILLING: FOR ALL SERVICE TRENCHES WITHIN PAVED AREAS OR WITHIN THE BUILDING FOOTPRINT, THE CONTRACTOR SHALL ADMINISTER A MINIMUM OF 1 COMPACTION TEST FOR EVERY 20 LINEAL METERS OF TRENCH BACKFILLING.
 - IN EACH CIRCUMSTANCE, THE CONTRACTOR SHALL PROVIDE THE RELEVANT TEST RESULTS AND INSPECTION REPORTS AND SEEK FORMAL APPROVAL FROM THE PROJECT SUPERINTENDENT PRIOR TO PROCEEDING WITH THE NEXT STAGE OF EARTH/CIVIL WORKS. NOTE THAT FAILURE TO ADMINISTER THE MINIMUM TESTING REQUIREMENTS WILL CONSTITUTE DEFECTIVE WORKS AND THE CONTRACTOR MAY BE DIRECTED TO RECONSTRUCT THE EARTH/CIVIL WORKS AT THEIR EXPENSE AT THE SOLE DISCRETION OF COUNCIL.
- THE CIVIL NOTES AND DRAWINGS SHALL BE READ AND CONSTRUCTED IN CONJUNCTION WITH ALL OTHER CONSULTANT DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTATION

DRAWING INDEX:

CIVIL DRAWINGS:

- C001 GENERAL NOTES AND DRAWING INDEX
- C002 EXISTING SITE PLAN
- C010 BULK EARTHWORK PLAN
- C020 CIVIL LAYOUT PLAN - SHEET 1
- C021 CIVIL LAYOUT PLAN - SHEET 2
- C021 CIVIL LAYOUT PLAN - SHEET 3
- C030 PIT SCHEDULE
- C040 CIVIL DETAILS - SHEET 1
- C041 CIVIL DETAILS - SHEET 2
- C050 CROSSOVER B99 VEHICLE CLEARANCE

LEGEND

NOTE: LEGEND APPLIES TO ALL CIVIL DRAWINGS UNLESS NOTED OTHERWISE

- 400 THICK ASPHALT PAVEMENT
REFER ARCHITECT'S DRAWINGS FOR EXACT LOCATIONS AND EXTENT
- 100 THICK CONCRETE PAVEMENT
REFER ARCHITECT'S DRAWINGS FOR EXACT LOCATIONS AND EXTENT
REFER TRC STD DETAIL 'R0007'
- GRAVEL
REFER ARCHITECT'S DRAWINGS FOR EXACT LOCATIONS AND EXTENT
- RAIN GARDEN
REFER ARCHITECT'S DRAWINGS FOR EXACT LOCATIONS AND EXTENT
- BARRIER KERB REFER TRC STD DETAIL 'R0003'
- LOWERED BARRIER KERB (110mm HIGH)
REFER TRC STD DETAIL 'R0003'
- CONCRETE KERB AND CHANNEL

STORMWATER PIT
REFER PIT SCHEDULE

INSPECTION OPENING

DOWN PIPE

DRAINAGE PIPE
(REFER PLAN FOR SIZE AND TYPE)

EXISTING STORMWATER PIPE
(REFER PLAN FOR SIZE)

EXISTING STORMWATER PIT

EXISTING STORMWATER PIPE TO BE DEMOLISHED

EXISTING STORMWATER PIT TO BE DEMOLISHED

SUBSOIL DRAINAGE REFER TRC STD DETL 'SW011'

STORMWATER OVERLAND PATHWAY

SPOON DRAIN (DISH CROSSING) REFER TRC STD DETAIL 'R0003'

GRATED TRENCH

SWALE DRAIN

KERB RAMP
REFER TRC STD DETL 'R0005'

EXTENT OF EXISTING BUILDING

FINISHED FLOOR LEVEL
(REFER PLAN FOR LEVEL)

FINISHED SURFACE LEVEL
(REFER PLAN FOR LEVEL)

FINISHED PAVEMENT LEVEL
(REFER PLAN FOR LEVEL)

EXISTING SURFACE LEVEL
(REFER PLAN FOR LEVEL)

TOP OF KERB
(REFER PLAN FOR LEVEL)

EXISTING TOP OF PIT LEVEL
(REFER PLAN FOR LEVEL)

EXISTING INVERT LEVEL OF PIPE
(REFER PLAN FOR LEVEL)

WARNING

BEWARE OF UNDERGROUND & OVERHEAD SERVICES
THE LOCATIONS OF UNDERGROUND & OVERHEAD SERVICES ARE APPROXIMATE ONLY & THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. LOCATE ALL UNDERGROUND SERVICES BEFORE COMMENCEMENT OF WORKS.
DIAL 1100 BEFORE YOU DIG
www.1100.com.au

NOTE: CONTRACTOR TO PRESSURE CLEAN ALL EXISTING STORMWATER PIPES AND PITS ON THE ENTIRE SITE AS PART OF THE CONTRACT WORKS. PIPES AND PIT ARE TO BE FULLY VIDEO CAMERA SURVEYED FOLLOWING CLEANING AND RECORD OF SURVEY PROVIDED TO SUPERINTENDENT FOR REVIEW

NOTE: CONTRACTOR IS TO SURVEY INVERT LEVELS OF ALL EXISTING STORMWATER PITS AND PIPES ON THE SITE PRIOR TO COMMENCING WORKS. SURVEY IS TO BE PROVIDED TO THE SUPERINTENDENT FOR REVIEW

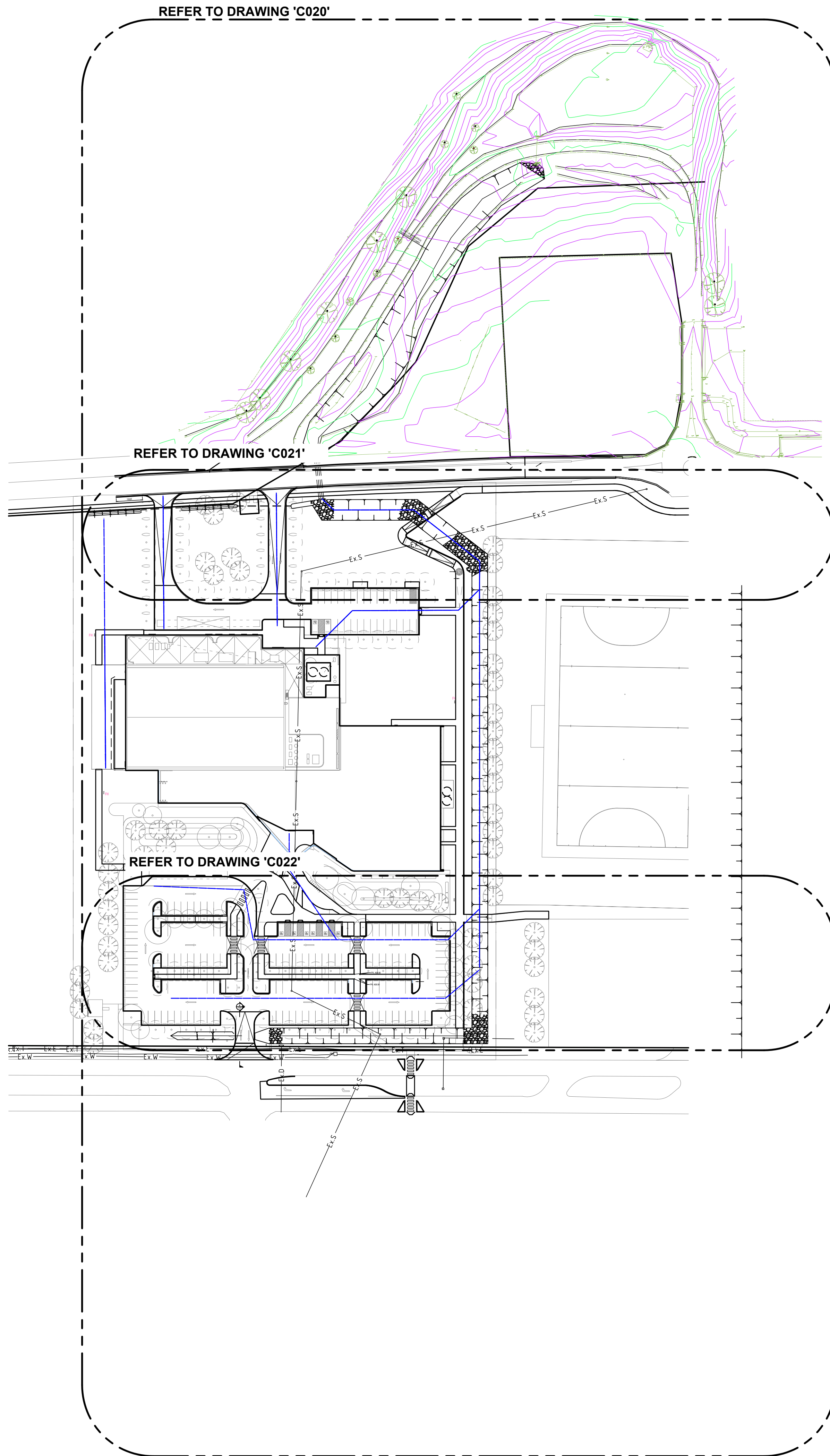
NOTE: 900 AG-DRAIN TO BE PROVIDED TO THE BACK OF ALL KERBS AND GRADED AT 1 IN 250 TO THE NEAREST STORMWATER DRAINAGE PIT. REFER TO AG-DRAIN DETAIL ON TRC STD DETL 'SW011'

NOTE: PIPE BEDDING TO COMPLY WITH TFSW STANDARD DRAWINGS. ALL EXISTING PAVEMENTS, KERB, FOOTPATHS ARE TO BE REINSTATEMENT TO THE APPROVAL OF TFSW AND THE LOCAL AUTHORITIES

NOTE: NO GLASS PRODUCTS, RECYCLED WASTE AND OTHER DELETERIOUS MATERIAL SHALL BE PRESENT IN ANY ASPHALT MIX. CONTRACTORS RESPONSIBILITY TO CHECK FOR GLASS, RECYCLED WASTE AND OTHER DELETERIOUS MATERIAL WITHIN THE ASPHALT MIXTURE PRIOR TO INSTALLATION. PROVIDE CERTIFICATION CONFIRMING THE ABOVE FROM SUPPLIER.

EXISTING SERVICES LEGEND

- EXISTING DRAINAGE LINE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING ELECTRICAL LINE (U/G)
- EXISTING FIRE SERVICES
- EXISTING GAS LINE
- EXISTING UNKNOWN LINE



AREA OF WORKS PLAN

N.T.S.

NO.	DATE	REVISION DESCRIPTION	DRAWN	CHECKED	APPROVED
C	14/01/25	PRELIMINARY ISSUE	HS	NH	JT
B	09/01/25	PRELIMINARY ISSUE	MH	NH	JT
A	12/01/25	PRELIMINARY ISSUE	MH	NH	JT

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PROJECT
TAMWORTH REGIONAL AQUATIC CENTRE AND NORTHERN INLAND CENTRE OF SPORT AND HEALTH

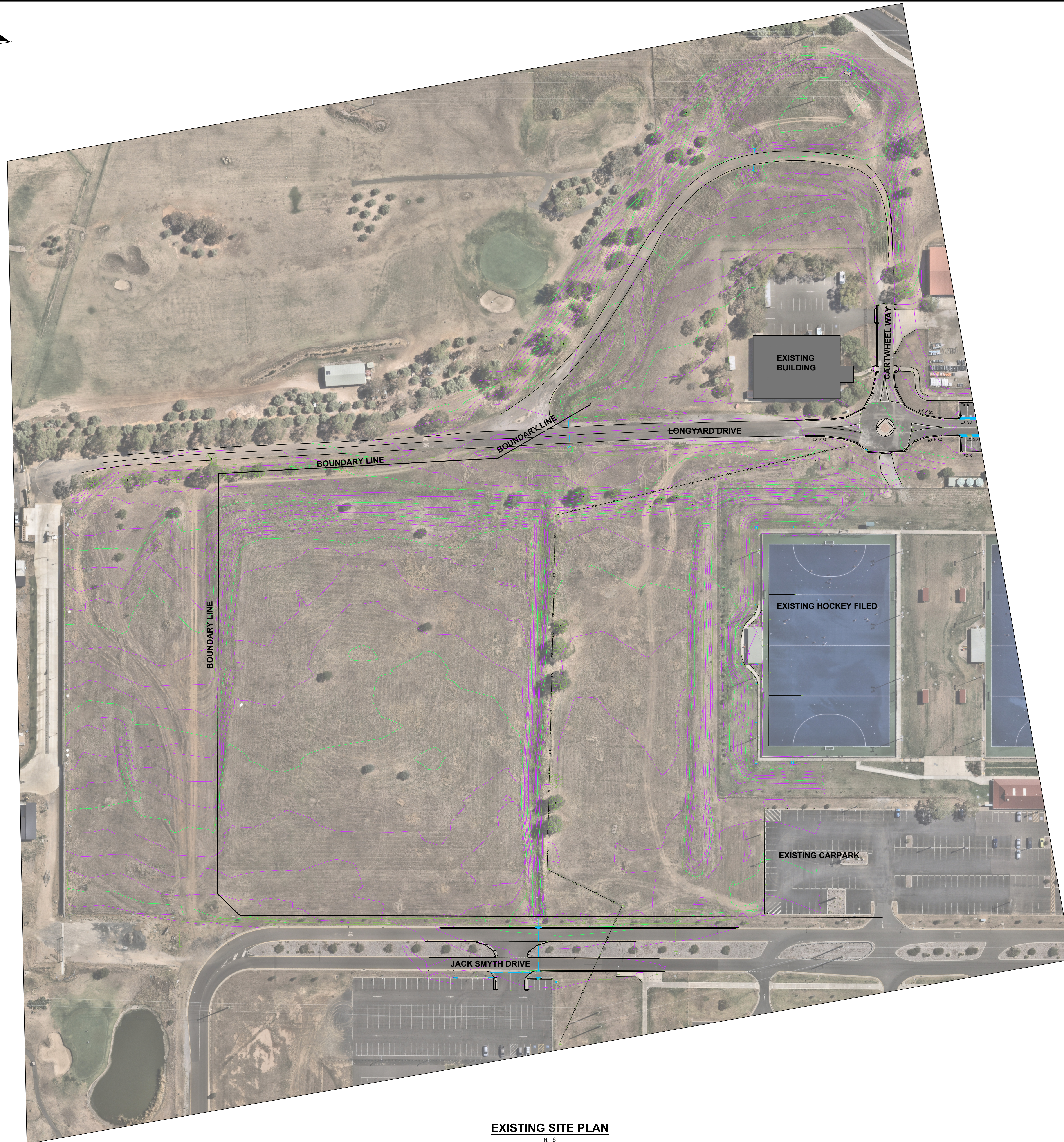
DRAWING TITLE
GENERAL NOTES, DRAWING INDEX AND AREA OF WORKS PLAN

SCALE AT A0	DRAWN	DESIGNED
N/A	MH	NH
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
NH	JT	XX

STATUS

**PRELIMINARY
NOT FOR CONSTRUCTION**

PROJECT NO.	DRAWING NO.	REVISION
230459	C001	C



EXISTING SITE PLAN
N.T.S.

[illegible]



CUT AND FILL VOLUME VOLUMES:	
TOTAL CUT	24,503m³
TOTAL FILL	4,423m³
NET CUT (ASSUMING SUITABLE FILL)	20,080m³

CUT AND FILL VOLUME NOTES:

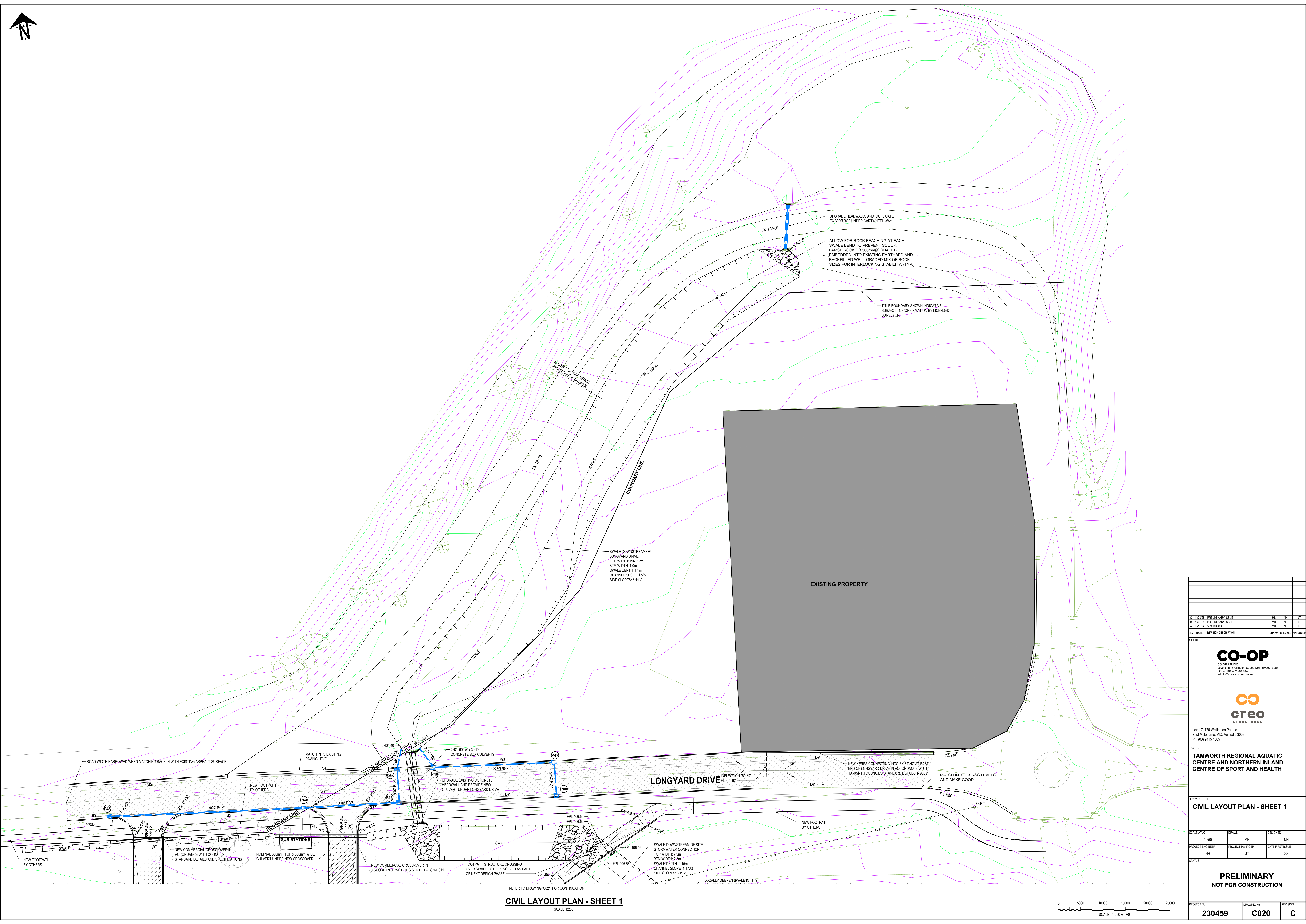
1. CUT AND FILL VOLUMES ARE INDICATIVE ONLY AND ARE ONLY INTENDED TO ASSIST IN THEIR TENDERING. THE CONTRACTOR SHALL FORM THEIR OWN CONCLUSIONS AND CALCULATE AND VERIFY THEIR OWN EARTHWORKS QUANTITIES. NO VARIATIONS WILL BE ACCEPTED FOR EARTHWORKS WHERE CUT AND/OR FILL TOTAL VOLUMES ESTABLISHED DURING CONSTRUCTION WORKS EXCEED THOSE STATED ON THIS DRAWING.

2. CUT AND FILL VOLUMES IDENTIFIED BASED ON THE FOLLOWING:

- 2.1. PREPARATION OF THE BUILDING PAD TO 300MM BELOW FINISH SLAB LEVEL.
- 2.2. REMOVAL OF THE CLARKPARK AND OTHER EXTERNAL PAVEMENTS TO TOP OF SUBGRADE LEVEL.
- 2.3. POOL AND ONSTREET DETENTION TANK EXCAVATION VOLUMES WITHIN THIS PLAN AREA.
- 2.4. EXCAVATION VOLUMES FOR THE PROPOSED TRENCHES.
- 2.5. NO ALLOWANCE HAS BEEN MADE FOR PIPE AND SERVICE TRENCHING.
- 2.6. EXCAVATIONS WITHIN THIS PLAN OR THE NOTED TOTAL CUT/FILL VOLUMES.

EXCESS FILL TO BE HOARDED TO THE WESTERN SIDE OF PROPOSED WORKS FOR FUTURE USE. THE SUPERINTENDENT AND/OR THE COUNCIL'S REPRESENTATIVE SHALL BE CONSULTED FOR FURTHER INSTRUCTIONS.

[illegible]



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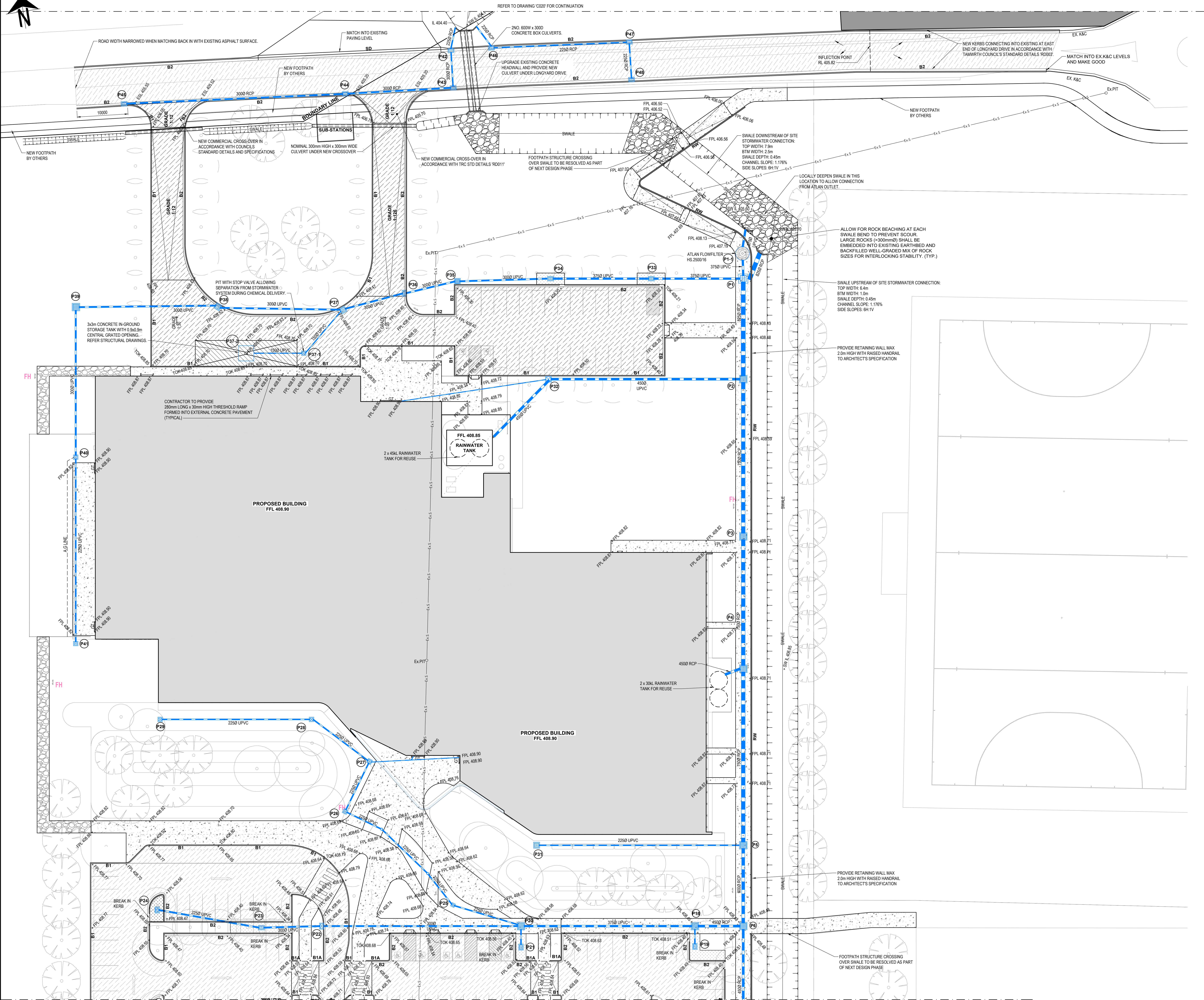
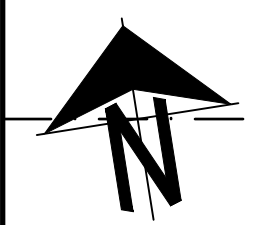
PROJECT

**TAMWORTH REGIONAL AQUATIC
CENTRE AND NORTHERN INLAND
CENTRE OF SPORT AND HEALTH**

STATUS

**PRELIMINARY
NOT FOR CONSTRUCTION**

PROJECT No.			DRAWING No.			REVISION		
230459			C020			C		



C 14/03/25 PRELIMINARY ISSUE HS MH JT			
B 03/01/25 PRELIMINARY ISSUE MH MH JT			
A 13/01/24 20% ISSUE MH MH JT			
REV	DATE	REVISION DESCRIPTION	DRAWN CHECKED APPROVED
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PROJECT TAMWORTH REGIONAL AQUATIC CENTRE AND NORTHERN INLAND CENTRE OF SPORT AND HEALTH			
DRAWING TITLE CIVIL LAYOUT PLAN - SHEET 2			
SCALE AT A0	DRAWN	DESIGNED	
1:250	MH	NH	
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE	
NH	JT	XX	
STATUS PRELIMINARY NOT FOR CONSTRUCTION			
PROJECT No.	DRAWING No.	REVISION	
230459	C021	C	



180mm RAMP

50mm DEPTH OF SIZE 10 TYPE N CLASS 320 ASPHALT

60mm DEPTH OF SIZE 14 TYPE CLASS 320 ASPHALT

SAMI OR PRIMER/SEAL TREATMENT

BASE DGS20

SUBBASE DGS40

50mm

FULL PAVEMENT AS SPECIFIED

RAISED PAVEMENT PEDESTALIN CROSSING DETAIL

SCALE NTS



TYPICAL BREAK IN KERB AND GUTTER DETAIL

SCALE 1:10



NOTE: ALL OTHER RAIN GARDENS SIMILAR



SCALE 1:20



SCALE 1:20

TAMWORTH REGIONAL COUNCIL CONSTRUCTION SPECIFICATIONS REFERENCE		
Dwg No.	DRAWING DESCRIPTIN	REVISION
C101	DEVELOPMENT CONSTRUCTION - GENERAL	1
C201	CONTROL OF TRAFFIC	1
C211	CONTROL OF EROSION AND SEDIMENTATION	1
C212	CLEARING AND GRUBBING	1
C213	EARTHWORKS	1
C220	STORMWATER DRAINAGE	1
C221	PIPE DRAINAGE	1
C223	DRAINAGE STRUCTURES	1
C224	OPEN DRAINS	1
C230	SUBSURFACE DRAINAGE	1
C271	MINOR CONCRETE WORKS	1
QCQ	QUALITY CONTROL REQUIREMENTS	1
QGS	QUALITY SAFETY ENVIRONMINET	1
	SPECIFICATIONS LISTING	1

[illegible]

C	14/03/25	PRELIMINARY ISSUE	HS	NH	JT
B	20/01/26	PRELIMINARY ISSUE	MH	NH	JT
A	13/11/24	50% DD ISSUE	MH	NH	JT
REV	DATE	REVISION DESCRIPTION	DRAWN	CHECKED	APPROVED

CUE

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**TAMWORTH REGIONAL AQUATIC
CENTRE AND NORTHERN INLAND
CENTRE OF SPORT AND HEALTH**

100

CIVIL DETAILS
SHEET 1

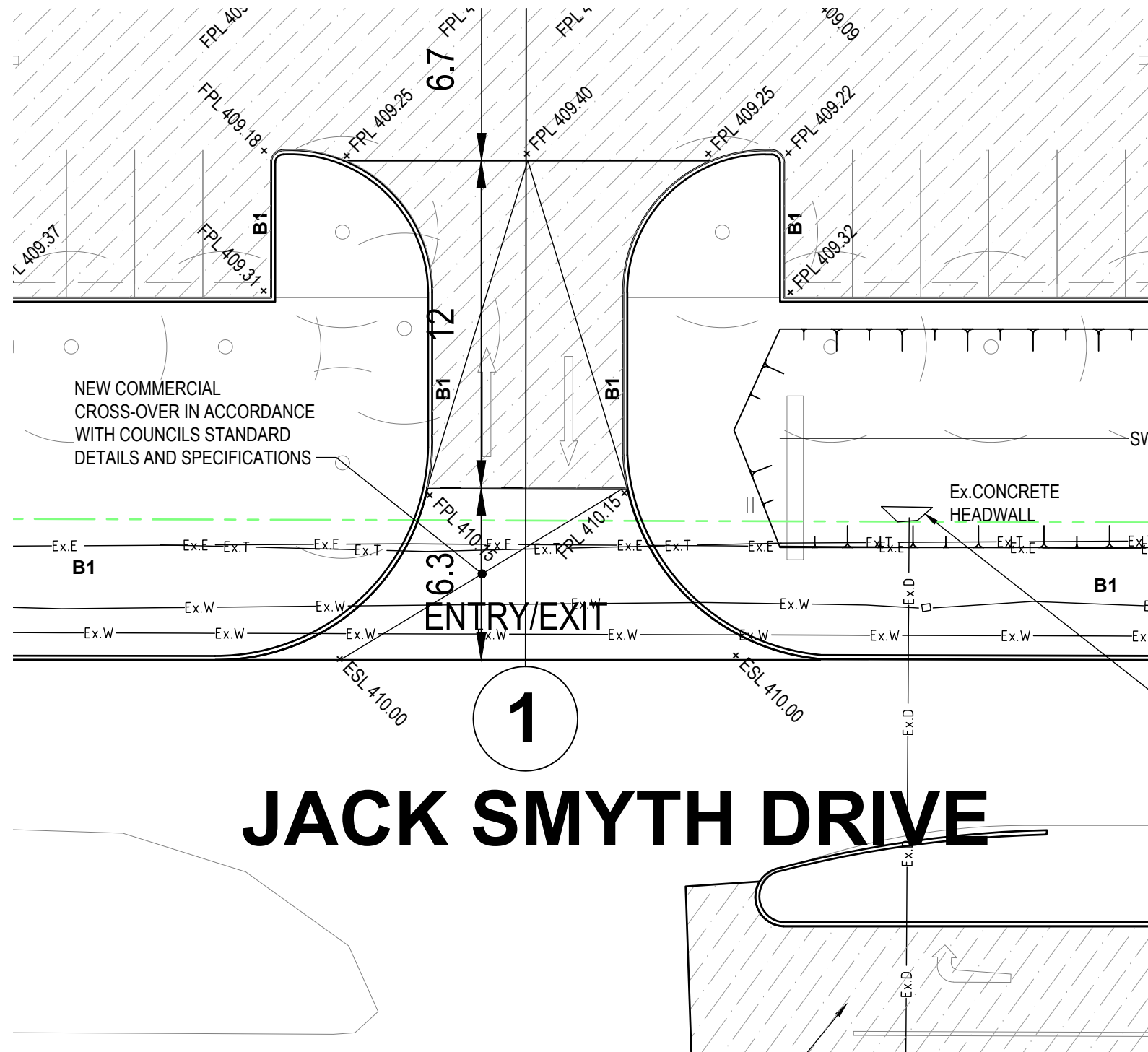
SCALE AT A0 1:10/1:20	DRAWN MH	DESIGNED NH
PROJECT ENGINEER NH	PROJECT MANAGER JT	DATE FIRST ISSUE XX

STAT

PRELIMINARY
NOT FOR CONSTRUCTION

PROJECT No.	DRAWING No.	REVISION
230459	C040	C

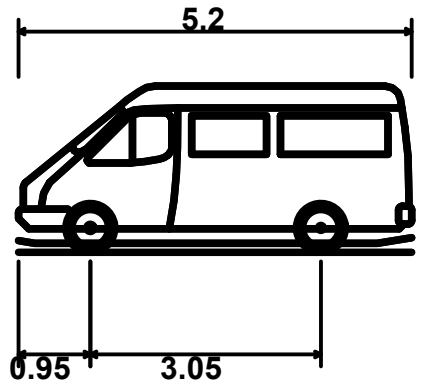
[illegible]



JACK SMYTH DRIVE

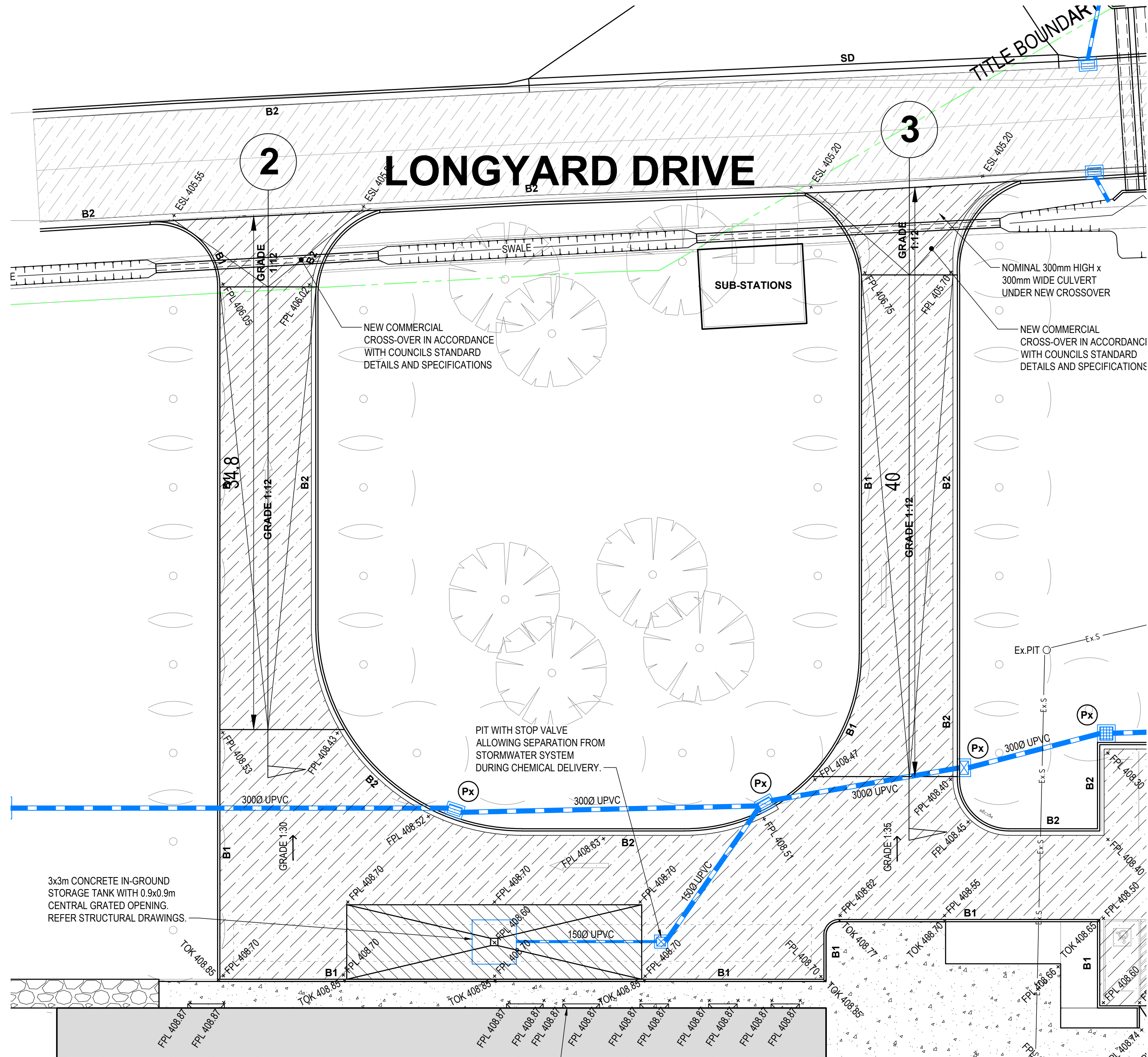
LENGTH
FINISH SURFACE LEVEL
GRADE

		B99 Vert Clearance (2004)	B99 Vert Clearance (2004)
LENGTH	6.3m	12m	6.7m
FINISH SURFACE LEVEL	410.00	410.15	409.40
GRADE	1:42	1:48	1:37



B99 Vert Clearance (2004)
Overall Length
Overall Width
Overall Body Height
Min Body Ground Clearance
Track Width
Lock-to-lock time
Curb to Curb Turning Radius

5.200m
1.940m
2.200m
0.120m
1.840m
4.00s
8.000m



LENGTH
FINISH SURFACE LEVEL
GRADE

		B99 Vert Clearance (2004)	B99 Vert Clearance (2004)	B99 Vert Clearance (2004)
LENGTH		34.8m		2.0m
FINISH SURFACE LEVEL	408.53		408.48	408.55
GRADE		1:12		1:30

LENGTH
FINISH SURFACE LEVEL

		B99 Vert Clearance (2004)	B99 Vert Clearance (2004)	B99 Vert Clearance (2004)
LENGTH		40.0m		2.0m
FINISH SURFACE LEVEL	408.20		408.43	408.49
		1:12		1:35

A. 14/03/25				PROJ. PRIMARY ISSUE		1/5	1/4	1/1
REV	DATE	REVISION DESCRIPTION	DRAWN	CHECKED	APPROVED			
CLIENT								
CO-OP CO-OP STUDIO Level 7, 176 Wellington Parade East Melbourne, VIC, Australia 3002 Ph: (03) 9415 1085 enquiries@co-opstudio.com.au								
 Level 7, 176 Wellington Parade East Melbourne, VIC, Australia 3002 Ph: (03) 9415 1085								
PROJECT TAMWORTH REGIONAL AQUATIC CENTRE AND NORTHERN INLAND CENTRE OF SPORT AND HEALTH								
DRAWING TITLE CROSSOVER B99 VEHICLE CLEARANCE								
SCALE AT A0 1:200		DRAWN MH		DESIGNED NH				
PROJECT ENGINEER NH		PROJECT MANAGER JT		DATE FIRST ISSUE XX				
STATUS PRELIMINARY NOT FOR CONSTRUCTION								
PROJECT No. 230459		DRAWING No. C050		REVISION A				