

# COMMERCIAL ADDITIONS & ANCILLIARY

## 731 GREAT WESTERN HWAY FALCONBRIDGE NSW

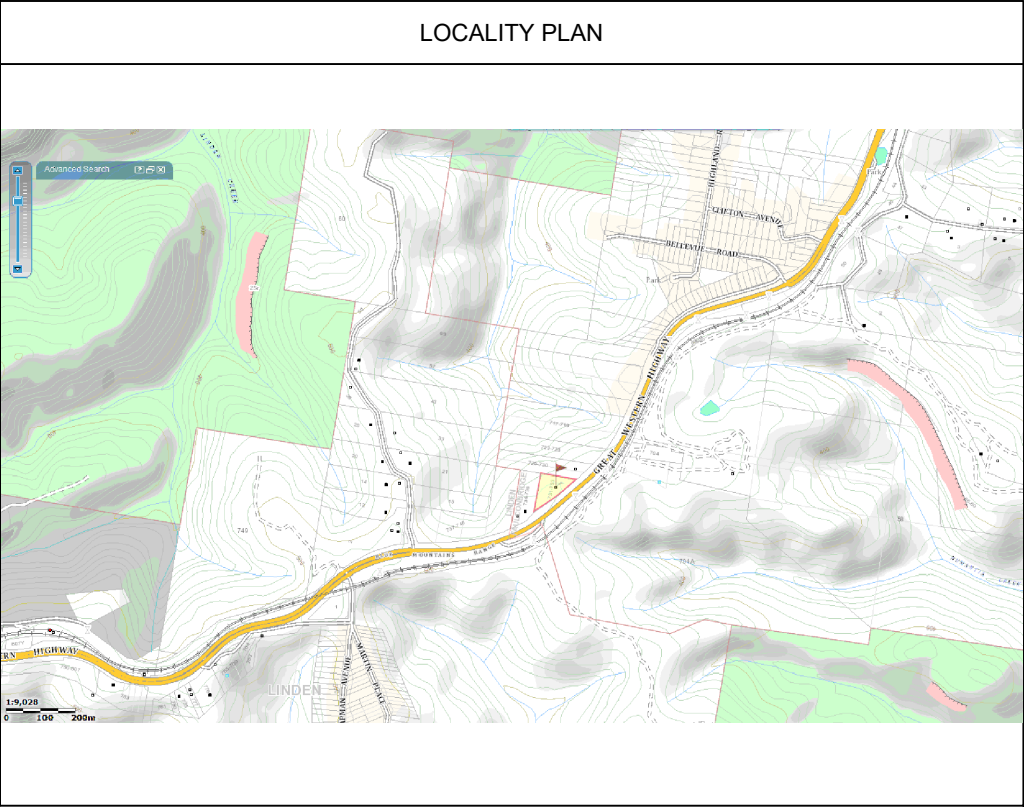
### CIVIL STORMWATER MANAGEMENT PLANS

#### GENERAL NOTES (G):

- G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND COUNCIL CIVIL SPECIFICATIONS.
- G2. THE INFORMATION CONTAINED ON THESE DRAWINGS IS FOR ENGINEERING PURPOSES ONLY. ALL LEVELS ARE IN METERS UNO. ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE CONTRACTOR ON SITE. ENGINEERS' DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS. ALL DISCREPANCIES SHALL BE REFERRED TO THE DESIGN ENGINEER PRIOR TO FABRICATION OR CONSTRUCTION.
- G3. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE BCA, RELEVANT AUSTRALIAN STANDARDS, LOCAL COUNCIL AND OTHER AUTHORITIES SPECIFICATIONS EXCEPT WHERE VARIED BY THE PROJECT CONTRACT.
- G4. THE CONTRACTOR SHALL GIVE 48 HOURS NOTICE FOR ALL ENGINEERING INSPECTIONS. THE PCA SHALL PROVIDE A LIST OF CRITICAL STAGE INSPECTIONS REQUIRED TO BE UNDERTAKEN BY ENGINEER.
- G5. COUNCIL'S TREE PRESERVATION REQUIREMENTS ARE TO BE STRICTLY ADHERED TO. NO TRESS SHALL BE REMOVED WITHOUT COUNCIL CONSENT OR PERMIT OBTAINED.
- G6. CATCH DRAINS ARE TO BE CONSTRUCTED AS REQUIRED BY COUNCIL'S ENGINEER. SUITABLE EASEMENTS TO DRAIN WATER ARE TO BE PROVIDED OVER DRAINAGE LINES THROUGH ALLOTMENTS AND PIPE TO BE LOCATED CENTRALLY, WHERE REQUIRED BY DESIGN OR UNO.
- G7. MAKE SMOOTH TRANSITION WITH ALL EXISTING WORK TO THE SATISFACTION OF COUNCIL.
- G8. VEHICLE ACCESS AND ALL SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
- G9. ADEQUATE PROVISION TO BE MADE FOR SCOURING AND SEDIMENTATION TO ALL DRAINAGE WORKS AS DIRECTED.
- G10. ANY VARIATION TO THE WORKS AS SHOWN ON THE APPROVED DRAWINGS ARE TO BE CONFIRMED BY THE DESIGN ENGINEER PRIOR TO THEIR COMMENCEMENT.
- G11. THE CONTRACTOR IS TO ENSURE THAT ALL WORKS ARE CARRIED OUT IN ACCORDANCE WITH THE NSW OCCUPATIONAL HEALTH AND SAFETY ACT.
- G12. ALL EXISTING SERVICES AND UTILITIES SHALL BE LOCATED AND RECORDED PRIOR TO COMMENCEMENT OF WORKS. ALL INFORMATION SHOWING SERVICES AND UTILITIES IS FOR PLANNING ONLY. PUBLIC UTILITY SERVICES ARE TO BE ADJUSTED AS NECESSARY AT THE CONTRACTORS EXPENSE.
- G13. THE CONTRACTORS WORK AREA IS CONFINED TO THE SITE AND AS SHOWN ON THESE DRAWINGS. ALL EXISTING STRUCTURES, IMPROVEMENTS STOCKPILES, RUBBISH AND DEBRIS SHALL BE REMOVED AS SPECIFIED.
- G14. ALL FINISHED GRADING SHALL BE TO THE SATISFACTION OF THE SUPERINTENDENT, BUT NOT BEYOND THE EXTENT OF WORKS.
- G15. ALL WORKS WITHIN THE VICINITY OF A WATERCOURSE SHOULD BE REFERRED TO THE NSW OFFICE OF WATER FOR A CONTROLLED ACTIVITY APPROVAL.

#### GEOTECHNICAL NOTE (GN):

- GN1. GEOTECHNICAL INVESTIGATION PERFORMED BY: NONE SUPPLIED  
REF: .
- GN2. ALL EARTHWORKS AND PAVEMENT WORKS TO BE EXECUTED AS SPECIFIED IN THE GEOTECHNICAL REPORT, AND AS INSPECTED BY THE GEOTECHNICAL ENGINEER.
- GN3. GEOTECHNICAL TESTING AND INSPECTION OF DESIGN SUB-GRADE, SUB-BASE, BACKFILL SHALL BE IN ACCORDANCE WITH AUTHORITY CIVIL SPECIFICATIONS AND GEOTECHNICAL RECOMMENDATIONS AND THE COST OF COMPLIANCE SHALL BE ALLOWED FOR BY THE CONTRACTOR.
- GN4. GEOTECHNICAL TEST PITS AND BORE LOGS ARE INDICATIVE AND ACTUAL SITE GROUND CONDITIONS MAY VARY. DEPTHS TO SOIL PROFILE LAYERS ARE INTERPOLATED AND CALCULATED VOLUMES MAY VARY, AND DO NOT ALLOW FOR BULKING FACTORS.



SHEET	DRAWING SCHEDULE
C 01	COVER SHEET
C 02	OVERALL SITE PLAN
C 03	SEDIMENT & EROSION CONTROL PLAN
C 04	SEDIMENT & EROSION CONTROL DETAILS - SHEET 1 OF 2
C 05	SEDIMENT & EROSION CONTROL DETAILS - SHEET 2 OF 2
C 06	STORMWATER MANAGEMENT PLAN
C 07	STORMWATER MANAGEMENT DETAILS - SHEET 1 OF 2
C 08	STORMWATER MANAGEMENT DETAILS - SHEET 2 OF 2



ALL UTILITIES ARE TO BE ACCURATELY LOCATED BY CONTRACTOR PRIOR TO CONSTRUCTION. ALL CONSTRUCTION WORK TO COMPLY WITH THE NCC.

#### SURVEY NOTE:

SURVEY BY:  
SUPPLIED BY CLIENT  
REFERENCE:  
DATE:

ORIGIN OF COORDINATES:  
BM / PM. E N R.L.  
BM NOT PROVIDED XX 487.99 (AHD).

ALL WORKS TO BE SET OUT BY A REGISTERED SURVEYOR.  
ALL LEVELS INDICATED ARE TO AHD.

#### STORMWATER DRAINAGE (SW):

- SW1. ALL STORMWATER DRAINAGE TO BE IN ACCORDANCE WITH AS 3500.3.
- SW2. UPVC PIPES AS SPECIFIED TO BE IN ACCORDANCE WITH AS 1254. CONCRETE PIPES AS SPECIFIED TO BE IN ACCORDANCE WITH AS 1342.
- SW3. CONTRACTOR IS TO PRESENT WORK AS EXECUTED SURVEY PLANS TO THE SUPERINTENDENT SHOWING LOCATION EXTENT AND LEVEL OF THE PITS/ON SITE DETENTION/ BIO-RETENTION SYSTEMS AS APPLICABLE TO EACH PROJECT. AT COMPLETION OF SUB-GRADE EXCAVATION AND UPON COMPLETION OF ALL WORKS.
- SW4. ALL CONCRETE PIPES ARE TO BE RUBBER RING JOINTED UNLESS NOTED OTHERWISE.
- SW5. THE MINIMUM SIZE OF STORMWATER DRAINS SHALL NOT BE LESS THAN DN90 FOR CLASS 1 BUILDINGS AND DN100 FOR OTHER CLASSES OR AS DIRECTED BY THE REGULATORY AUTHORITY.
- SW5. MINIMUM GRADIENT OF ALL STORMWATER PIPES SHALL BE AS FOLLOWS;  
(a) DN90 TO DN150 1% MIN.  
(b) DN225 0.5% MIN GRADE.  
(c) DN300 0.4% MIN GRADE.  
(d) DN375 0.35% MIN GRADE.
- SW6. PIPE BEDDING MATERIAL IS TO COMPLY WITH AS 2032 OR AS 3725. COVER REQUIRED TO PIPES IS 450mm IN ROADS AND CARPARKS AND 300mm ELSEWHERE UNO.
- SW7. TRENCHES ARE TO BE BACKFILLED WITH APPROVED FILL ONLY. FILL IS TO BE COMPACTED IN 200mm LAYERS TO 98% OF STANDARD DENSITY IN ACCORDANCE WITH AS1289.5.1.1
- SW8. CONCRETE BULKHEADS ARE TO BE INSTALLED ON ALL PIPES WITH GRADES >15%.
- SW9. SUBSOIL DRAINS TO BE LAID AT A MINIMUM GRADE OF 1.0% UNO. BACKFILL TO BE FREE-DRAINING GRANULAR MATERIAL TO WITHIN 200mm OF THE SURFACE UNO. COMPACTED IN ACCORDANCE TO RELEVANT STANDARDS AND GEOTECHNICAL REPORT. OVERLAY BACKFILL WITH APPROVED GEOFABRIC TO MAINTAIN SEPARATION FROM TOPSOIL.
- SW10. CONTRACTOR TO CONFIRM INVERT LEVEL OF ALL RECEIVING PIT/PIPE/OUTLET/CHANNEL PRIOR TO COMMENCEMENT OF ANY WORK.
- SW11. ALL CONNECTIONS TO PITS, HEADWALLS OR OTHER, EITHER EXISTING OR PROPOSED, WITHIN THE SITE OR STUDY AREA TO BE GROUTED OR SEALED TO THE SATISFACTION OF COUNCIL OR THE SUPERINTENDENT.
- SW12. SEALED SCREW CAP CLEAR OUT INSPECTION OPENINGS (I.O.) TO BE PROVIDED AT BENDS AND THE LOWEST POINT ON ALL CHARGED STORMWATER LINES. ALL CHARGED STORMWATER LINES TO BE SOLVENT WELDED JOINTS.

#### STORMWATER PITS (SP):

- SP1. COMPRESSIVE STRENGTH OF CONCRETE F<sub>c</sub> AT 28 DAYS TO BE 32MPa MIN, 40 MIN COVER TO REINFORCEMENT UNO. ALL EXPOSED PIT EDGES TO BE 20 RADIUS.
- SP2. PIT WALLS DEEPER THAN 1500mm TO BE REINFORCED WITH SL81 CENTRAL AND FOLDED 300mm INTO THE BASE. HORIZONTAL CORNER BARS N12-400 EACH FACE AND 500x500 LEGS TO BE INSTALLED UNO BY DESIGN.
- SP3. 100 DIA SUBSOIL DRAINAGE PIPE 3.0m LONG AND WRAPPED IN FABRIC SOCK TO BE PLACED ADJACENT TO INLET PIPES ON BOTH SIDES AND 100mm MIN ABOVE PIT FLOOR.
- SP4. GRATING AND FRAME TO BE WELDL0K GALVANISED STEEL GRATE OR APPROVED EQUAL, AND AS FOLLOWS U.N.O:  
(a) ROADWAY - HEAVY DUTY (HD),  
(b) CARPARK - MEDIUM DUTY (MD),  
(c) LANDSCAPE - LIGHT DUTY (LD),  
(d) COUNCIL/RMS/EXTRA HEAVY DUTY TO DESIGN PAVEMENT SPEC.
- SP5. STEP IRONS TO BE PROVIDED FOR PITS DEEPER THAN 1200mm AND AT 300mm INTERVALS AND PLACED ON WALL CLEAR OF FLOW.
- SP6. REFER TO STRUCTURAL ENGINEER FOR PITS LARGER THAN 900x900 AND DEEPER THAN 3500mm. INSITU CONCRETE PITS ARE NOT TO EXCEED 3500mm UNLESS DETAILED WITHIN THE ENGINEERING SET.
- SP7. WHERE PIPE SIZES ALLOW, INTERNAL PIT DIMENSIONS MAY BE A MINIMUM OF 900mm LONG x 600mm WIDE.
- SP8. PROVIDE MASS CONCRETE BENCHING ACROSS PIT TO SUIT INLET AND OUTLET PIPES AS DETAILED. WALL THICKNESS TO BE ADJUSTED TO SUIT PIT LID TO THE SATISFACTION OF THE INSPECTING ENGINEER.
- SP9. STORMWATER PITS LESS THAN 600 SQUARE AND 600 DEEP MAY BE REPLACED WITH PLASTIC PITS IN NON-TRAFFICABLE LANDSCAPE AREAS ONLY, AND APPROVED BY DESIGN ENGINEER.

#### COUNCIL NOTES (CC):

- CC1. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S CIVIL WORKS SPECIFICATION AND TO THE SATISFACTION OF THE COUNCIL INSPECTING ENGINEER.
- CC2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S CURRENT DCP ON EROSION AND SEDIMENTATION CONTROL AND MUST BE IMPLEMENTED PRIOR TO THE COMMENCEMENT OF ANY CIVIL ENGINEERING WORKS.
- CC3. THE DEVELOPER IS RESPONSIBLE FOR ONGOING MAINTENANCE OF EROSION AND SILTATION CONTROL MEASURES.
- CC4. ALL PUBLIC UTILITIES SHALL BE CLEARLY IDENTIFIED IN THE FIELD PRIOR TO ANY CIVIL WORKS. COUNCIL DOES NOT ACCEPT ANY RESPONSIBILITY FOR DAMAGE OR RELOCATION COSTS TO PUBLIC UTILITIES DURING CONSTRUCTION OF THE DEVELOPMENT.
- CC5. COUNCIL SHALL BE NOTIFIED 48 HOURS PRIOR TO COMMENCEMENT OF ANY WORKS.
- CC6. IT IS THE SERVICE PROVIDERS RESPONSIBILITY TO ENSURE THAT ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE WORKPLACE, HEALTH AND SAFETY ACT 2011.
- CC7. PERMISSION TO ENTER, CONSTRUCT WORKS AND DISCHARGE STORMWATER ON ADJOINING PROPERTIES IS TO BE OBTAINED AND SUBMITTED TO COUNCIL PRIOR TO THE COMMENCEMENT OF ANY WORKS.
- CC8. PAVEMENT TO BE DESIGNED AND CERTIFIED BY A PRACTICING CONSULTANT GEOTECHNICAL ENGINEER AND SUBMITTED TO COUNCIL FOR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORKS.
- CC9. THESE PLANS SHALL BE READ IN CONJUNCTION WITH THE CONDITIONS STATED IN THE COUNCIL'S ENGINEERING PLAN APPROVAL CORRESPONDENCE AND THE CONDITIONS OF THE DEVELOPMENT CONSENT.
- CC10. IF THE STANDARD OR REQUIREMENTS FOR WORKS SHOWN ON THE DRAWINGS DIFFER FROM THAT REQUIRED BY COUNCIL'S CIVIL WORKS SPECIFICATION THEN THE REQUIRE OF THE CIVIL WORKS SPECIFICATION WILL GENERALLY PREVAIL. CLARIFICATION SHALL BE OBTAINED FROM COUNCIL'S REPRESENTATIVE IF THERE IS CONCERN THAT THE REQUIREMENTS OF COUNCIL'S SPECIFICATION REQUIREMENTS MAY NOT BE APPROPRIATE FOR A SPECIFIC CIRCUMSTANCE.
- CC11. THE DEVELOPER SHALL ADDRESS ALL PRE CONSTRUCTION REQUIREMENTS OF COUNCIL'S CIVIL WORKS SPECIFICATION PRIOR TO COMMENCEMENT OF ANY WORKS.

20.5.23 02 - S34 SUBMISSION

27.1.22 01 - CONCEPT ISSUE

DATE: DRAWING ISSUE:

CLIENT:

TODERELLO

PROJECT:

PROPOSED ADDITION & ANCILLIARY  
DEPARTMENT  
731 GREAT WESTERN HIGHWAY  
FALCONBRIDGE, NSW



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CHECKED: CF		
DATE: 27.1.22		
JOB: 2021_246	C.FISHER, BE, MIEAust, CPEng, NER 719120. (CIVIL AND STRUCTURAL)	
DRG: C 01	REV: 02	SH: 1 of 8