

PROPOSED RESIDENTIAL DEVELOPMENT

LOT 6 NO 17 FALCONER STREET, WEST RYDE

STORMWATER MANAGEMENT PLANS

EXISTING SERVICES AND FEATURES

- THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION, REMOVAL AND DISPOSAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA, AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN WRITTEN APPROVAL OF HIS PROGRAMME FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
- EXISTING BUILDINGS, EXTERNAL STRUCTURES, AND TREES SHOWN ON THESE DRAWINGS ARE FEATURES EXISTING PRIOR TO ANY DEMOLITION WORKS.
- 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.
- INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL OF SUPERINTENDENT FOR TIME OF INTERRUPTION.

SITWORKS NOTES

- ORIGIN OF LEVELS ~ AUSTRALIAN HEIGHT DATUM (A.H.D.)
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
- ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, THE SPECIFICATIONS AND THE DIRECTIONS OF THE PRINCIPAL'S REPRESENTATIVE.
- 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 THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE PRINCIPAL'S REPRESENTATIVE. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- WHERE NEW WORKS ABOUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER COMMUNICATIONS OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH AN APPROVED NON-NATURAL GRANULAR MATERIAL AND COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289.5.1.1.
- ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- ON COMPLETION OF PIPE INSTALLATION ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS.
- PROVIDE 10mm ABLEFLEX JOINTS BETWEEN CONCRETE PAVEMENTS AND ALL BUILDINGS, WALLS, FOOTINGS, COLUMNS, KERBS, DISH DRAINS, GRATED DRAINS, BOLLARD FOOTINGS ETC
- CONTRACTOR TO OBTAIN ALL AUTHORITY APPROVALS.
- ALL BATTERS TO BE GRASSED LINED WITH MINIMUM 100 TOPSOIL AND APPROVED COUCH LAID AS TURF.
- MAKE SMOOTH TRANSITION TO EXISTING SERVICES AND MAKE GOOD.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DIVERSION DRAINS AND MOUNDS TO ENSURE THAT AT ALL TIMES EXPOSED SURFACES ARE FREE DRAINING AND WHERE NECESSARY EXCAVATE Sumps AND PROVIDE PUMPING EQUIPMENT TO DRAIN EXPOSED AREAS.
- THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MIN 50mm IN BITUMINOUS PAVING.
- ON COMPLETION OF WORKS ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL INCLUDING, BUT NOT LIMITED TO, KERBS, FOOTPATHS, CONCRETE AREAS, GRASS AND LANDSCAPED AREAS.

SUBGRADE PREPARATION

- REMOVE ALL TOPSOIL, VEGETABLE MATTER AND RUBBLE.
- PROOF ROLL NATURAL SURFACE.
- REMOVE ANY SOFT AREAS.
- PLACE APPROVED NON ORGANIC FILL WITH A MAXIMUM PARTICLE SIZE OF 75mm AND COMPACT IN 200mm MAX. THICK LAYERS. U.N.O.
- COMPACTION IS TO BE CARRIED OUT BY ROLLING AT OPTIMUM MOISTURE CONTENT TO OBTAIN A DENSITY EQUIVALENT TO 98% OF MAXIMUM DRY DENSITY WHEN TESTED BY THE STANDARD COMPACTION TEST. No. E1 FROM A.S. 1289.
- COMPACTION SHALL BE CARRIED OUT WITH A VIBRATING ROLLER WITH AT LEAST 10 TONNE STATIC WEIGHT OR OTHER APPROPRIATE EQUIPMENT.
- TESTING OF THE SUBGRADE SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A. REGISTERED LABORATORY.

COMPACTION NOTES

- STRIP TOPSOIL TO EXPOSE NATURALLY OCCURRING MATERIAL AND STOCKPILE ON SITE FOR SELECTIVE RE-USE OR DISPOSE OFF-SITE AS DIRECTED BY THE SUPERINTENDENT.
- WHERE FILLING IS REQUIRED TO ACHIEVE DESIGN SUBGRADE PROOF ROLL EXPOSED NATURAL SURFACE WITH A MINIMUM OF TEN PASSES OF A VIBRATING ROLLER (MINIMUM STATIC WEIGHT OF 10 TONNES) IN THE PRESENCE OF THE SUPERINTENDENT. REFER TO SPECIFICATION FOR DETAILS.
- ALL SOFT, WET OR UNSUITABLE MATERIAL TO BE REMOVED AS DIRECTED BY THE SUPERINTENDENT AND REPLACED WITH APPROVED MATERIAL SATISFYING THE REQUIREMENTS LISTED BELOW.
- ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING:
 - FREE FROM ORGANIC, PERISHABLE AND CONTAMINATED MATTER
 - MAXIMUM PARTICLE SIZE 75mm
 - PLASTICITY INDEX BETWEEN 2% AND 15%
- ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 200mm THICK LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE A DRY DENSITY DETERMINED IN ACCORDANCE WITH AS 1289 E3.1 OF NOT LESS THAN THE FOLLOWING STANDARD MINIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 E1.1:

LOCATION	STANDARD DRY DENSITY
UNDER BUILDING SLABS	98%
AREAS OF SERVICE TRENCHES	98%
EXTERNAL PAVED AREAS, ROADS AND CARPARKS	98%
LANDSCAPED AREAS	98%
- THE CONTRACTOR SHALL PROGRAM 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.
- TESTING OF THE SUBGRADE SHALL BE CARRIED OUT BY AN APPROVED NATA REGISTERED LABORATORY AT THE CONTRACTORS EXPENSE.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

- THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS, AND ANY OTHER PLANS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED AND RELATING TO DEVELOPMENT AT THE SUBJECT SITE.
- THE SITE SUPERINTENDENT WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS INSTRUCTED IN THIS SPECIFICATION.
- ALL BUILDERS AND SUB-CONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.

CONSTRUCTION SEQUENCE

- THE SOIL EROSION POTENTIAL ON THIS SITE SHALL BE MINIMISED. HENCE WORKS SHALL BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
 - INSTALL SEDIMENT FENCES, TEMPORARY CONSTRUCTION EXIT AND SANDBAG KEBB INLET SEDIMENT TRAP.
 - UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.
- DURING WINDY CONDITIONS, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
- FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

FENCING

- STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS, WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
- ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
- WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE ATTACHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRAINER.
- TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

- ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER ARE TO BE EMPTIED AS NECESSARY. DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT.

SITE INSPECTION & MAINTENANCE

- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AFTER RAINFALL EVENTS TO ENSURE THAT THEY OPERATE EFFECTIVELY. REPAIR AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED.

CONCRETE NOTES

GENERAL

- ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH AS 3600 CURRENT EDITIONS WITH AMENDMENTS, AND THE ACSE CONCRETE SPECIFICATION EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- VERIFY ALL SETTING OUT DIMENSIONS WITH THE ARCHITECT AND/OR THE SURVEYOR.
- DO NOT OBTAIN DIMENSIONS BY SCALING THE DRAWINGS.
- IN CASE OF DOUBT - ASK.

DESIGN LOADS

- N/A

CONCRETE

- PLACE CONCRETE OF THE FOLLOWING CHARACTERISTIC COMPRESSIVE STRENGTH F_{CD} AS DEFINED IN AS 3600 OR M.R. FORM 609, ADD WATER REDUCING ADMIXTURE EQUAL TO WRDA.

LOCATION	AS 3600 F _{CD} MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
ALL KERB PITS ETC	25	80	20
VEHICULAR PAVEMENTS	32	80	20

- ALL CONCRETE SHALL BE SUBJECT TO PROJECT CONTROL SAMPLE AND TESTING TO AS 3600.
- CONSOLIDATE BY VIBRATION.

REINFORCEMENT

- FIX REINFORCEMENT AS SHOWN ON DRAWINGS. THE TYPE AND GRADE IS INDICATED BY A SYMBOL AS SHOWN BELOW. ON THE DRAWING N IS FOLLOWED BY A NUMERAL WHICH INDICATES THE SIZE IN MILLIMETRES. A MARK NUMERAL (IF USED) FOLLOWS THIS NUMERAL.
 - HOT ROLLED DEFORMED BAR, GRADE 410Y
 - HOT ROLLED DEFORMED BAR, GRADE 230S
 - PLAIN ROUND BAR, GRADE 230R
 - HARD DRAWN WIRE FABRIC.
- PROVIDE BAR SUPPORTS OR SPACERS TO GIVE THE FOLLOWING CONCRETE COVER TO ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

FOOTINGS
- 75 BOTTOM, 65 TOP AND SIDES
- SLABS
- 20 TOP AND BOTTOM, 30 WHEN EXPOSED TO WEATHER.

BEAMS
- 50 BOTTOM AND SIDES (TO STIRRIPS) TOP COVER AS DETAILED
- COLUMNS
- 40 TO TIES AND SPIRALS 50 WHEN EXPOSED TO WEATHER

WALLS
- 25 GENERALLY 30 WHEN CAST IN FORMS BUT LATER EXPOSED TO WEATHER OR GROUND.
- 65 WHEN CAST DIRECTLY IN CONTACT WITH GROUND.

CURING

- CURE ALL CONCRETE IN ACCORDANCE TO THE METHOD PROVIDED IN THE SPECIFICATION.

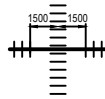
CONCRETE PAVEMENT JOINT NOTES

- CONCRETE MIX PARAMETERS:
 - MAXIMUM AGGREGATE SIZE 20mm
 - FLEXURAL STRENGTH AT 28 DAYS = 3.5MPa
 - FLEXURAL STRENGTH AT 90 DAYS = 3.85 MPa
 - MAXIMUM WATER / CEMENT RATIO = 0.55
 - MAXIMUM SHRINKAGE LIMIT = 650 MICRON STRAINS (AS 1012 P1 13)
 - MINIMUM CEMENT CONTENT = 300kg/m³
 - CEMENT TO BE TYPE "A" (NORMAL CEMENT) TO AS 1315
 - SLUMP = 50mm
- JOINT 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.
- CONSTRUCT JOINTS AS DETAILED
 - CONSTRUCTION JOINTS WHERE REQUIRED BUT NOT SHOWN, SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER AND CONSTRUCTED AT THE CONTRACTORS EXPENSE.
 - ALL LONGITUDINAL CONSTRUCTION JOINTS SHALL BE FORMED AND INCLUDE DOWEL BARS AS SPECIFIED. ALL TRANSVERSE CONSTRUCTION JOINTS SHALL BE FORMED AND INCLUDE DOWEL BARS AS SPECIFIED.
 - BOND BREAKER TO BE TWO (2) UNIFORM COATS OF BITUMEN EMULSION ALL OVER THE EXPOSED SURFACE AND ON END.
- DOWELS AND TIE BARS TO MEET STRENGTH REQUIREMENTS OF STRUCTURAL GRADE STEEL IN ACCORDANCE AS 1302. DOWELS AND TIE BARS SHALL BE:
 - STRAIGHT
 - TO LENGTH SPECIFIED
 - CLEAN AND FREE FROM MILL SCALE, RUST AND OIL.
 - SAWN TO LENGTH NOT CROPPED.
- 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 DETAIL "B" FOR TYPICAL ARRANGEMENT AND SEALANT.
- PRIOR TO THE PLACEMENT OF CONCRETE IN THE ADJACENT SLAB, SELF EXPANDING CORK FILLER 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.
- REFER TO COMPACTION NOTES FOR PREPARATION OF SUB-BASE AND SUB-GRADE.
- ALL WORK TO BE BROOM FINISH.

JOINTING NOTES

VEHICULAR PAVEMENT JOINTING

- ALL VEHICULAR PAVEMENT TO BE JOINTED AS SHOWN ON DRAWINGS.
- KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 6m CENTRES.
- SAWM JOINTS SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 6m CENTRES OR 15 x THE SPACING OF KEYS JOINTS, WHERE KEY JOINT SPACING IS LESS THAN 4m, WITH DOWELLED EXPANSION JOINTS AT MAXIMUM OF 30m CENTRES.
- PROVIDE 10mm WIDE FULL DEPTH ISOLATION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVERS.
- WHERE DOWELLED JOINTS INTERSECT REMOVE DOWELS FROM LAST 1500mm FROM JOINT IN DIRECTION OF POUR.



PEDESTRIAN FOOTPATH JOINTING

- DOWEL JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 6.0m CENTRES.
- WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND/OR ADJACENT PAVEMENT JOINTS.
- ALL RAMPED CROSSINGS SHALL BE DOWELED INTO ADJOINING PATH PAVEMENT

ASPHALTIC CONCRETE NOTES

- GENERAL
 - MINERAL AGGREGATES TO COMPLY WITH AUSTRALIAN STANDARDS
 - MINERAL FILLER TO COMPLY WITH AS 2357 MINERAL FILLERS OR ASPHALT.
 - BITUMEN BINDER SHALL COMPLY WITH AS 2008
- MIX PROPORTIONS
 - JOB MIX - 10mm NOMINAL SIZE AGGREGATE. MINIMUM BITUMEN CONTENT BY MASS OF TOTAL MASS - 5.1%
 - MIX STABILITY - BETWEEN 160N AND 360N AS DETERMINED BY AS 2891
 - AIR VOIDS IN COMPACTED MIX - BETWEEN 4% AND 7% OF THE VOLUME OF THE MIX.
 - VOIDS FILLED IN BINDER - 65-80% OF AIR VOIDS IN THE TOTAL MINERAL AGGREGATE FILLED BY BINDER IN ACCORDANCE WITH AUSTRALIAN STANDARDS
- PAVEMENT PREPARATION
 - THE EXISTING SURFACE TO BE SEALED SHALL BE DRY AND BROOMED BEFORE COMMENCEMENT OF WORK TO ENSURE COMPLETE REMOVAL OF ALL SUPERFICIAL FOREIGN MATTER.
 - ALL DEPRESSIONS OR UNEVEN AREAS ARE TO BE TACK-COATED AND BROUGHT UP TO GENERAL LEVEL OF PAVEMENT WITH ASPHALTIC CONCRETE BEFORE LAYING OF MAIN COURSE.
- TACK COAT
 - THE WHOLE OF THE AREA TO BE SHEETED WITH ASPHALTIC CONCRETE SHALL BE LIGHTLY AND EVENLY COATED WITH RAPID SETTING BITUMEN COMPLYING WITH AUSTRALIAN STANDARDS. APPLICATION RATE FOR RESIDUAL BITUMEN SHALL BE 0.15 TO 0.30 LITRES/SQUARE METRE. APPLICATION SHALL BE BY MEANS OF A MECHANICAL SPRAYER WITH SPRAY BAR.
- SPREADING
 - ALL ASPHALTIC CONCRETE SHALL BE SPREAD WITH A SELF PROPELLED PAYING MACHINE.
 - THE ASPHALTIC CONCRETE SHALL BE LAID AT A MIX TEMPERATURE AS SHOWN BELOW:

ROAD SURFACE TEMPERATURE IN SHADE (°C)	MIX TEMPERATURES (°C)
5 - 10	NOT PERMITTED
10 - 15	150
15 - 25	145
OVER 25	140
 - ASPHALTIC CONCRETE SHALL NOT BE LAID WHEN THE ROAD SURFACE IS WET OR WHEN COLD WINDS CHILL THE MIX ADVERSELY AFFECT SPREADING AND COMPACTION.
 - THE MINIMUM COMPACTED THICKNESS IS 30mm OVER EXISTING SEALED PAVEMENTS AND 50mm OVER NEW PAVEMENTS
- JOINTS
 - THE NUMBER OF JOINTS BOTH LONGITUDINAL AND TRANSVERSE SHALL BE KEPT TO A MINIMUM.
 - THE DENSITY AND SURFACE FINISH AT JOINTS SHALL BE SIMILAR TO THOSE OF THE REMAINDER OF THE LAYER.
- COMPACTION
 - ALL COMPACTION SHALL BE UNDERTAKEN USING SELF PROPELLED ROLLERS.
 - INITIAL ROLLING SHALL BE COMPLETE BEFORE THE MIX TEMPERATURE FALLS BELOW 105°C
 - SECONDARY ROLLING SHALL BE COMPLETED BEFORE THE MIX TEMPERATURE FALLS BELOW 60°C
 - MINIMUM CHARACTERISTICS VALUE OF RELATIVE COMPACTION OF A LOT WHEN TESTED IN ACCORDANCE WITH AS 2150
- FINISHED PAVEMENT PROPERTIES
 - FINISHED SURFACES SHALL BE SMOOTH, DENSE AND TRUE TO SHAPE AND SHALL NOT VARY MORE THAN 10mm FROM THE SPECIFIED PLAN LEVEL AT ANY POINT AND SHALL NOT DEVIATE FROM THE BOTTOM OF A 3m STRAIGHT EDGE LAID IN ANY DIRECTION BY MORE THAN 5mm.

ROADWORKS NOTES

- ALL BASECOURSE AND SUB-BASECOURSE MATERIALS SHALL CONFORM WITH AUSTRALIAN STANDARDS.
- ALL BASECOURSE AND SUB-BASE MATERIALS SHALL BE COMPACTED TO ACHIEVE A MINIMUM OF 100% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT OF +OR- 2% IN ACCORDANCE WITH AS 1289 E1.1.
- ALL WEARING SURFACES SHALL BE ASPHALTIC CONCRETE LAID TO THE THICKNESS SPECIFIED AND IN ACCORDANCE WITH THE SPECIFICATION.
- CONCRETE FOR KERB SHALL HAVE A CONCRETE STRENGTH OF 20MPa AT 28 DAYS, MINIMUM SLUMP OF 60mm AND MAXIMUM AGGREGATE SIZE OF 40mm.

BITUMEN SEALANT NOTES

PAVEMENT PREPARATION

- THE SURFACE TO BE SEALED SHALL BE DRY AND BROOMED BEFORE COMMENCEMENT OF WORK TO ENSURE COMPLETE REMOVAL OF ALL SUPERFICIAL, FOREIGN AND LOOSE MATTER.
- IF APPROVED BY THE SUPERINTENDENT, ALL DEPRESSIONS OR UNEVEN AREAS ARE TO BE TACK-COATED AND BROUGHT TO GENERAL LEVEL OF PAVEMENT WITH ASPHALTIC CONCRETE BEFORE SEALING COMMENCES.

MATERIALS

- BINDER SHALL BE CLASS 170 TO AS 2008 OR APPROVED PROPRIETARY MATERIAL FOR PRIMING AND PRIME-SEALING.
- AGGREGATE SHAPE, DURABILITY AND WET TO DRY STRENGTH SHALL COMPLY TO AS 2758 FOR CLASS "M" AGGREGATES. A 20kg SAMPLE TO BE APPROVED BY THE SUPERINTENDENT PRIOR TO USE.
- AGGREGATES SHALL BE DELIVERED UNIFORMLY PRECOATED, EXCESSIVE PRECOATING WILL RESULT IN AGGREGATES BEING REJECTED.
- FOR TWO COAT FLUSH SEALS, THE SIZE OF THE AGGREGATE FOR THE SECOND COAT, WHILE NORMALLY HALF THAT OF THE FIRST COAT, SHALL BE DIMENSIONALLY COMPATIBLE WITH THAT OF THE FIRST COAT.

DESIGN

- DESIGN OF SPRAYED BITUMINOUS SEALS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE AUSTRALIAN (MAASRA) PUBLICATION, "PRINCIPLES AND PRACTICE OF BITUMINOUS SURFACING, VOLUME 1 - SPRAYED WORK"
- WHERE NOT INDICATED ON THE DRAWINGS, PRIMES AND PRIMER-SEALS SHALL BE DESIGNED TO REMAIN INTACT UNTIL FINAL SEALING TAKES PLACE, HAVING REGARD FOR THE TRAFFIC AND CLIMATIC CONDITIONS PERTAINING.
- UNLESS OTHERWISE SPECIFIED, BINDER APPLICATION RATES SHALL BE SELECTED TO FILL 85% OF THE THEORETICAL VOIDS OF THE MAT.

PRIMER-SEALING

- A SINGLE COAT PRIMER-SEAL USING A SUITABLE CUT-BACK OR PROPRIETARY BINDER SHALL BE APPLIED TO BASECOURSE MATERIAL FOR PROTECTION OF PAVEMENT DURING CONSTRUCTION.

BITUMEN FLUSH SEALING

- BITUMEN FLUSH SEALS SHALL BE EITHER SINGLE OR DOUBLE COAT AS SHOWN ON THE DRAWINGS. E.G. INDICATES A DOUBLE COAT FLUSH SEAL USING TWO APPLICATIONS OF BITUMEN AND AGGREGATE, THE FIRST AGGREGATE LAYER BEING OF 20mm NOMINAL SIZE, THE SECOND 10mm.
- BINDER SHALL BE CLASS 170 TO AS 2008.
- COVER AGGREGATE SHALL BE SPREAD IMMEDIATELY AFTER SPRAYING OF BINDER. IN NO CASE SHALL SPREADING BE DELAYED MORE THAN 8 MINUTES.
- ALL SPRAY RECORDS AND AGGREGATE SUPPLY TONNAGE AND LOOSE MATTER. IF APPROVED BY THE SUPERINTENDENT, ALL DEPRESSIONS RECEIPTS SHALL BE RETAINED AND PASSED ON TO THE SUPERINTENDENT AS PART OF THE QUALITY ASSURANCE PROCEDURES.
- AGGREGATES SHALL BE DELIVERED UNIFORMLY PRECOATED, EXCESSIVE PRECOATING WILL RENDER AGGREGATES UNSUITABLE AND WILL BE REJECTED. APPLICATION RATES SHALL BE IN THE RANGE OF 3-10 L/M² OF AGGREGATE AND THE PRECOATING AGENT SHALL BE COMPATIBLE WITH THE SEALING AGGREGATE TO BE USED.
- SEALING TO BE CARRIED OUT IN THE PRESENCE OF THE CONSULTANT ENGINEER.

APPLICATION RATES:	BINDER L/m ²	COVER SIZE mm	AGGREGATE RATE m ³ /m ²
FIRST SEAL	1	14	80
SECOND SEAL	0.5	7	160
SINGLE SEAL OR RESEAL	0.8	10	120

- RECORDS; ALL SPRAY RECORDS AND AGGREGATE SUPPLY TONNAGE RECEIPTS SHALL BE RETAINED AND PASSED ON TO THE CONSULTING ENGINEER AS PART OF THE QUALITY ASSURANCE PROCEDURES.
- GENERALLY FLUSH SEALING SHALL BE CARRIED OUT COMPLETE AND IN ACCORDANCE WITH THE RELEVANT R.T.A. STANDARD.

LINEMARKING NOTES

- THE WORK SHALL INCLUDE ALL LINE MARKING TO ROADS, HARDSTANDS, PATHS, CARPARKS AND THE TRAFFICABLE AREAS.
- THE PAVEMENT MARKING AND PAINT SHALL BE IN ACCORDANCE WITH AS 1742.2 AND THE RELEVANT LOCAL AND STATE AUTHORITY GUIDELINES.
- PAINT SHALL BE TYPE 3, CLASS A AND THE COLOUR SHALL BE WHITE AND NOT SUBJECT TO DISCOLOURATION BY BITUMEN FROM THE ROAD SURFACE. EACH LINE SHALL BE 80mm WIDE, UNO IN LEGEND. ALL PAINT SHALL BE APPLIED BY MECHANICAL SPRAYER.
- LINE MARKING SHALL BE SPOTTED OUT AND APPROVED PRIOR TO SPRAYING.
- PAINT SHALL BE APPLIED AT A WET THICKNESS OF BETWEEN 0.35mm TO 0.40mm.
- ALL EXISTING PAVEMENT MARKING WHICH IS LOCATED ON EXISTING PAVEMENT TO BE RETAINED SHALL BE REMOVED BY GRINDING WHERE THE EXISTING MARKINGS ARE MADE REDUNDANT BY THE PROPOSED WORKS.

ISSUE FOR APPROVAL



ADDRESS:
LOT 6 NO 17 FALCONER STREET, WEST RYDE

TITLE:
COVER SHEET & NOTES

DRAWING STATUS
CONCEPT PLAN FOR APPROVAL

SCALE (AT ORIGINAL SIZE)	AS NOTED
PROJECT NO. 32900-DW	DRAWING NO. C1
	REVISION NO. A

GENERAL NOTES:

- THIS DRAWING IS THE COPYRIGHT OF NASTASI & ASSOCIATES CONSULTING CIVIL & STRUCTURAL ENGINEERS, Unit 5/3 Myhyalla Place, Prestons NSW 2170. PO Box 6546, Hammondville, NSW 2170.
- IT IS NOT ALLOWED TO COPY OR REPRODUCE ITS CONTENTS IN ANY FORM EXCEPT FOR THE PURPOSE WHICH IT IS ISSUED WITHOUT THE ENGINEER'S AUTHORITY.
- DO NOT SCALE THIS DRAWING, ONLY STATED DIMENSIONS ARE TO BE CONSIDERED.
- CONTRACTOR TO VERIFY THE DETAIL / INFORMATION GIVEN IN THIS DRAWING. ANY DISCREPANCIES SHALL BE BROUGHT TO ENGINEERS ATTENTION PRIOR TO COMMENCEMENT OF WORK. FAILURE TO COMPLY WITH THE ABOVE WILL BE CONSIDERED UNLAWFUL.



NASTASI & ASSOCIATES
CONSULTING CIVIL & STRUCTURAL ENGINEERS
S.E., M.I.E., AUST. CPEng NPER-3
ABN 45 533 226 008
UNIT 5, 3 MYHYALLA PLACE, PRESTONS NSW 2170
PH: (02) 9607 2864 OR (02) 8798 9517 FAX: (02) 9751 2081
MOB: 0419 041 401

QUALITY CONTROL

DESIGNED	DATE
NV	19.10.2022
CHECKED	DATE

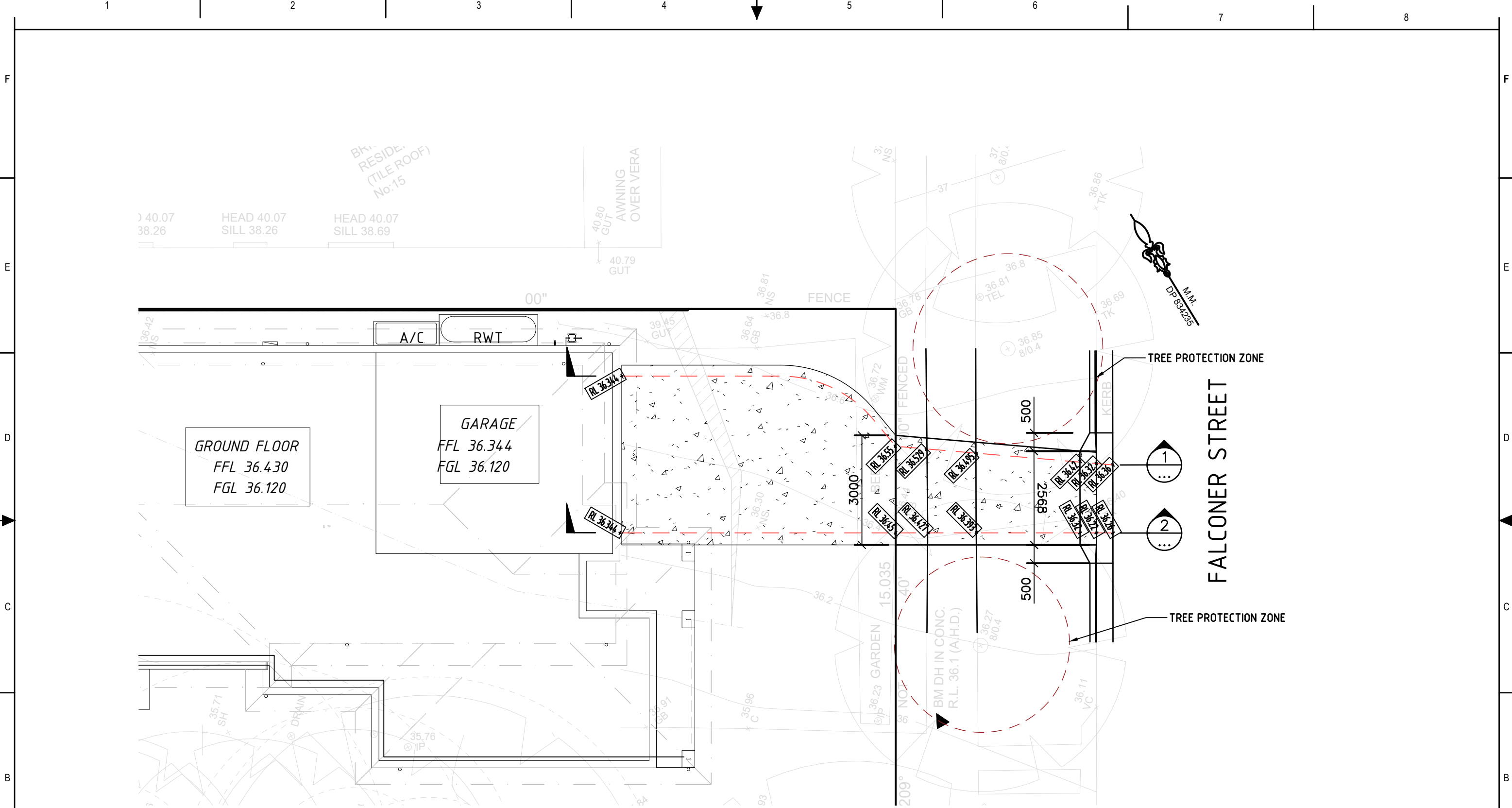
APPROVED:



Just the way YOU like it.

DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.	DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.				FIRE		
STRUCT.				LANDS		
MECH.				CIVIL		
ELEC.				SURVEY		
HYD.						

A	ISSUED FOR REVIEW	19.10.2022
ISSUE	REVISION	DATE




NOTES

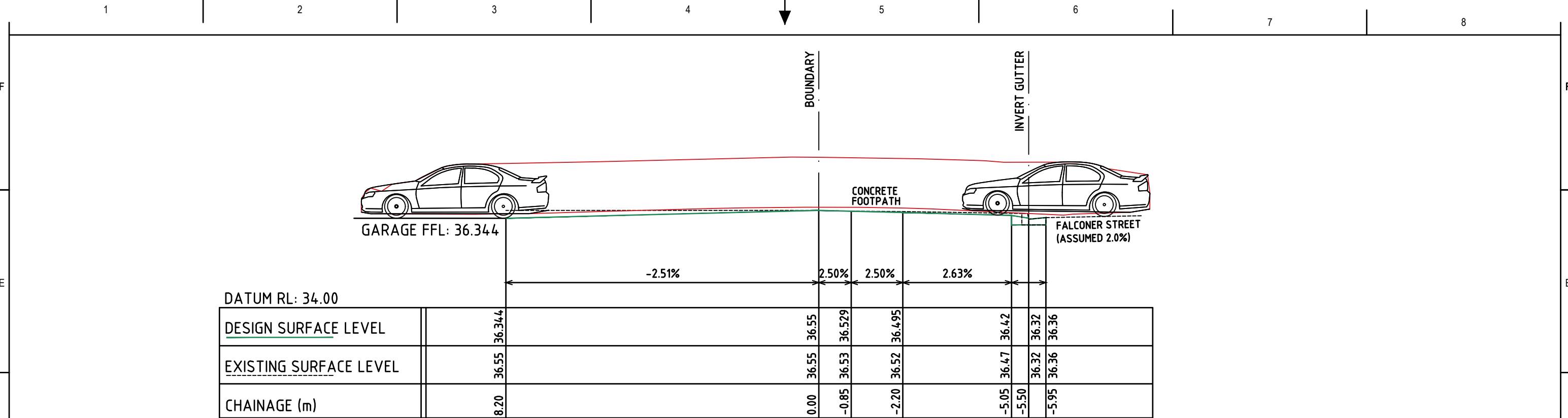
1. STANDARD LAYBACK IS TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL'S DRAWING NO. CIV.3.1 DATED 21.06.18.

VEHICLE CROSSING PLAN
SCALE 1:100

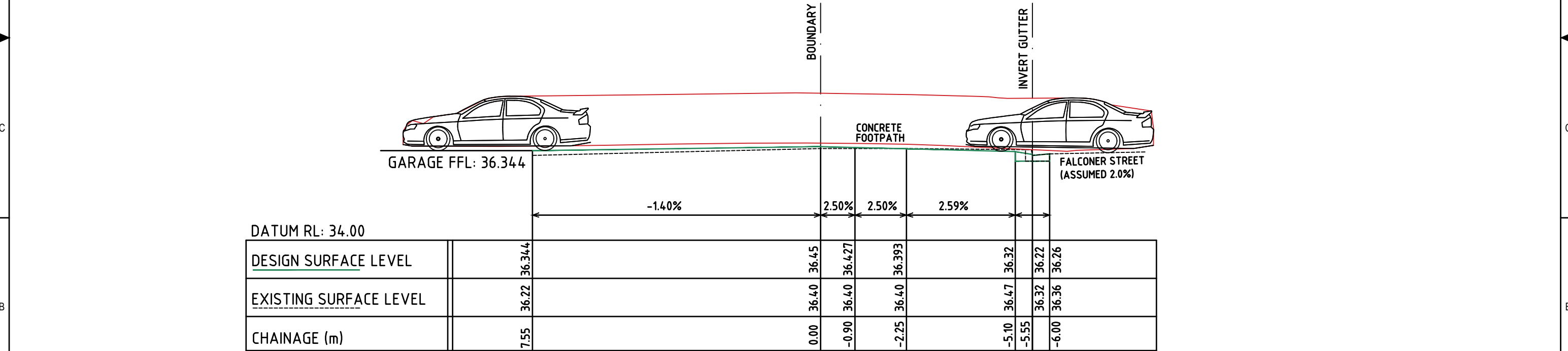
ISSUE FOR APPROVAL



		REFERENCE COORDINATION DRAWING				GENERAL NOTES:				QUALITY CONTROL				APPROVED:		 <div>T (02) 4948 2232 M (02) 9601 1628, Nathan N 0817 2087 E (02) 9601 1628 W www.ansahomes.com.au A 04 152 305 178</div>		ADDRESS: LOT 6 NO 17 FALCONER STREET, WEST RYDE		DRAWING STATUS	
										DESIGNED NV 19.10.2022								CONCEPT PLAN FOR APPROVAL			
										CHECKED 								SCALE (AT ORIGINAL SIZE) AS NOTED			
A		ISSUED FOR REVIEW				19.10.2022												PROJECT NO. 32900-DW			
ISSUE		REVISION				DATE												DRAWING NO. C2			
																		REVISION NO. A			



DRIVEWAY LONGITUDINAL - SECTION 1
SCALE 1:100

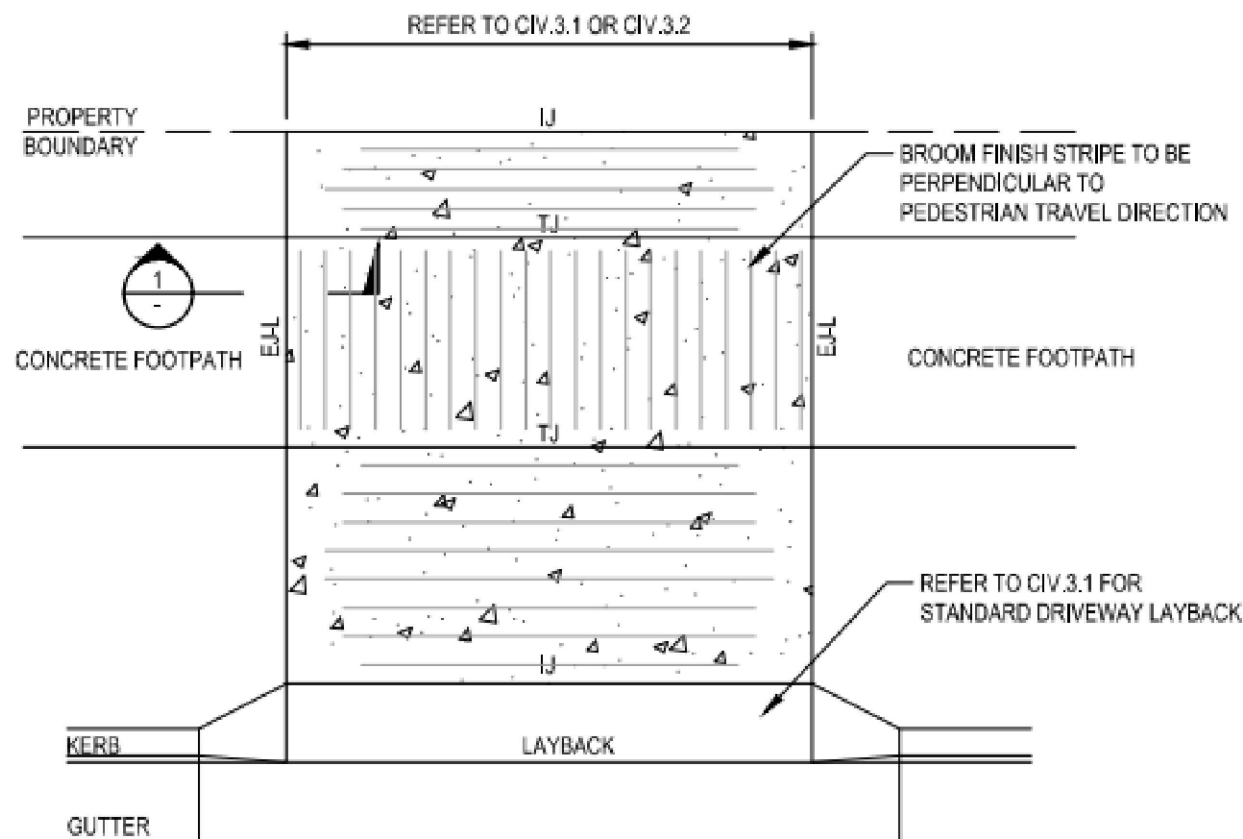


DRIVEWAY LONGITUDINAL - SECTION 2
SCALE 1:100

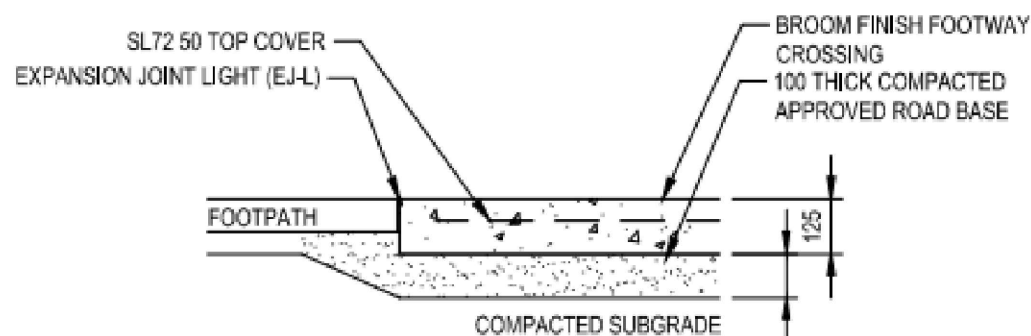
ISSUE FOR APPROVAL



REFERENCE COORDINATION DRAWING		GENERAL NOTES:		QUALITY CONTROL		APPROVED:		ADDRESS:		DRAWING STATUS	
DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.	DRAWING TITLE AND NUMBER	DATE	DESIGNED	DATE	LOT 6 NO 17 FALCONER STREET, WEST RYDE		CONCEPT PLAN FOR APPROVAL	
ARCH.						NV	19.10.2022	TITLE:		SCALE (AT ORIGINAL SIZE) AS NOTED	
STRUCT.						CHECKED	DATE			PROJECT NO. DRAWING NO. REVISION NO.	
Mech.								LONGITUDINAL SECTIONS		32900-DW C3 A	
ELEC.											
ISSUE	REVISION	DATE	REV.								



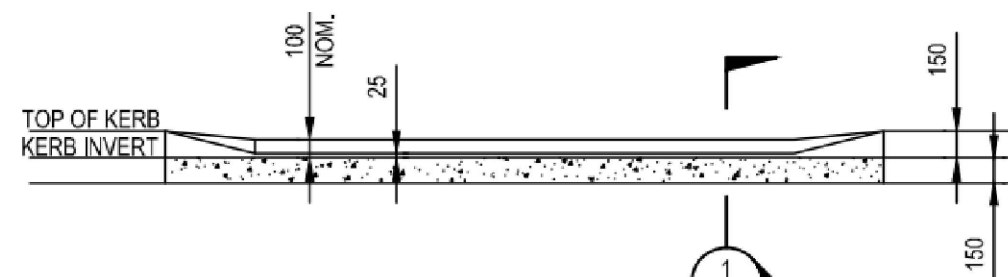
PLAN
SCALE N.T.S



SECTION
SCALE 1:20 @A4

NOTES:

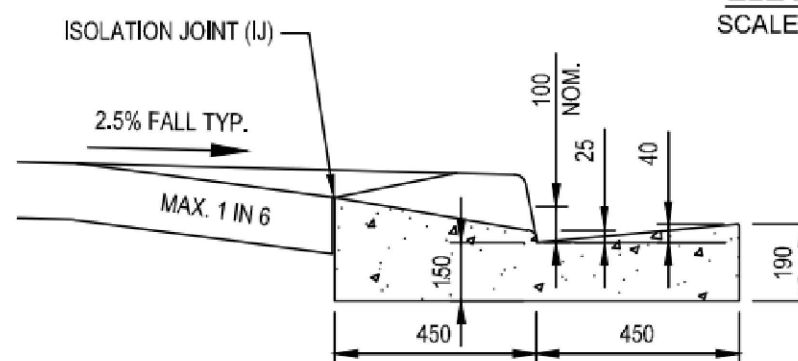
1. LIGHT DUTY FOOTPATH CROSSINGS ARE TYPICALLY USED FOR RESIDENTIAL PROPERTIES.
2. FOOTPATH CROSSINGS SHALL CONSIST OF 125mm THICK BROOM FINISHED REINFORCED CONCRETE WITH SL72 OVER 100mm THICK OF APPROVED ROADBASE.
3. REFER TO CIV.11 FOR JOINT DETAIL.
4. CONCRETE EDGES SHALL BE FINISHED WITH AN EDGING TOOL.
5. CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 25MPA MINIMUM.
6. CONCRETE SHALL BE PLACED WITH A MAXIMUM SLUMP OF 80mm.
7. MINIMUM CONCRETE COVER SHALL BE 40mm UNLESS NOTED OTHERWISE.
8. THE COUNCIL ENGINEER REQUIRES 24 HOURS NOTICE PRIOR TO POURING OF CONCRETE TO INSPECT THE FORMWORK. NO CONCRETE SHALL BE POURED UNTIL THE EXCAVATION AND FORMWORK HAVE BEEN INSPECTED.
9. REFER TO CIV.5 SERIES FOR STANDARD FOOTPATH DETAILS.



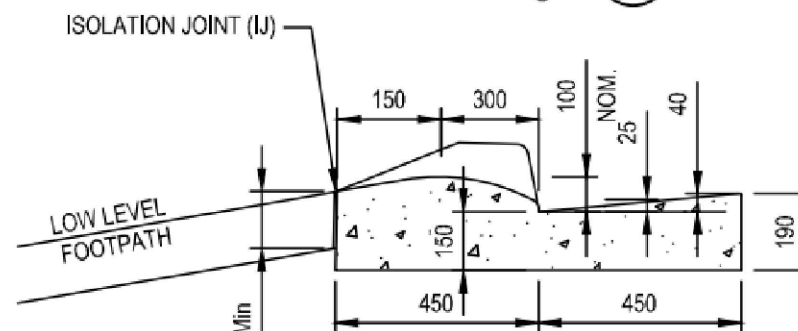
ELEVATION
SCALE 1:50 @A4

NOTES:

1. STANDARD LAYBACK SHALL CONSIST OF 150mm MINIMUM THICK UNREINFORCED CONCRETE OVER 150mm MINIMUM THICKNESS COMPACTED APPROVED ROADBASE.
2. THE LAYBACK SHALL BE STEEL FLOAT FINISHED.
3. EXPANSION JOINTS SHALL BE PLACED AT INTERVALS OF 6m MAXIMUM AND 4m MINIMUM. REFER TO CIV.11 FOR JOINTS DETAIL.
4. CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 25MPA MINIMUM.
5. CONCRETE SHALL BE PLACED WITH A MAXIMUM SLUMP OF 80mm.
6. SUBJECT TO APPROVAL FROM COUNCIL'S ENGINEER THE NOMINAL HEIGHT OF DRIVEWAY LAYBACK MAY BE LOWERED TO MINIMUM 75mm TO MEET B85 DESIGN VEHICLE REQUIREMENT.
7. THE COUNCIL ENGINEER REQUIRES 24 HOURS NOTICE PRIOR TO POURING OF CONCRETE TO INSPECT THE FORMWORK. NO CONCRETE SHALL BE POURED UNTIL THE EXCAVATION AND FORMWORK HAS BEEN INSPECTED.
8. REFER TO CIV.1.2.1 FOR ROAD RESTORATION DETAIL.
9. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE (U.N.O)



SECTION
SCALE 1:20 @A4



ROLL OVER LAYBACK FOR LOW LEVEL
FOOTWAYS
SCALE 1:20 @A4



ISSUE FOR APPROVAL

REFERENCE COORDINATION DRAWING		GENERAL NOTES:	
DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.			
STRUCT.			
M.ECH.			
ELEC.			
HYD.			
ISSUE	DATE		
A	19.10.2022		

REFERENCE COORDINATION DRAWING		GENERAL NOTES:	
DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.			
STRUCT.			
M.ECH.			
ELEC.			
HYD.			
ISSUE	DATE		
A	19.10.2022		

REFERENCE COORDINATION DRAWING		GENERAL NOTES:	
DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.			
STRUCT.			
M.ECH.			
ELEC.			
HYD.			
ISSUE	DATE		
A	19.10.2022		

REFERENCE COORDINATION DRAWING		GENERAL NOTES:	
DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.			
STRUCT.			
M.ECH.			
ELEC.			
HYD.			
ISSUE	DATE		
A	19.10.2022		

REFERENCE COORDINATION DRAWING		GENERAL NOTES:	
DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.			
STRUCT.			
M.ECH.			
ELEC.			
HYD.			
ISSUE	DATE		
A	19.10.2022		

REFERENCE COORDINATION DRAWING		GENERAL NOTES:	
DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.			
STRUCT.			
M.ECH.			
ELEC.			
HYD.			
ISSUE	DATE		
A	19.10.2022		

REFERENCE COORDINATION DRAWING		GENERAL NOTES:	
DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.			
STRUCT.			
M.ECH.			
ELEC.			
HYD.			
ISSUE	DATE		
A	19.10.2022		

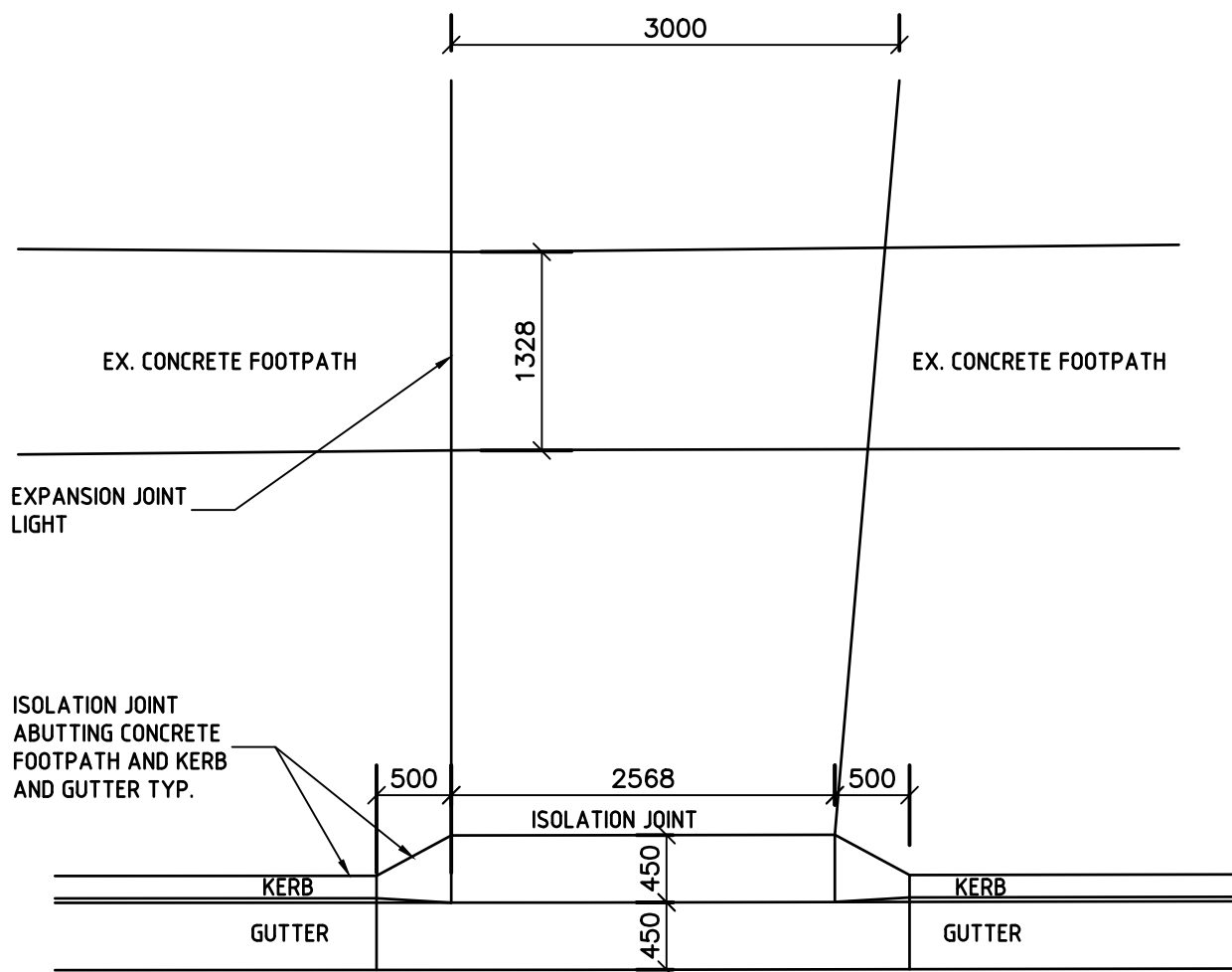
REFERENCE COORDINATION DRAWING		GENERAL NOTES:	
DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.			
STRUCT.			
M.ECH.			
ELEC.			
HYD.			
ISSUE	DATE		
A	19.10.2022		

NASTASI & ASSOCIATES
CONSULTING CIVIL & STRUCTURAL ENGINEERS
S.E., M.I.E. AUST. CPENG NPFR-3
ABN 45 533 226 008
UNIT 5, 1-3 WHYALLA PLACE, PRESTONS NSW 2170
PH: (02) 9607 2864 OR (02) 9798 9517 FAX: (02) 9751 2081
MOB: 0419 041 401

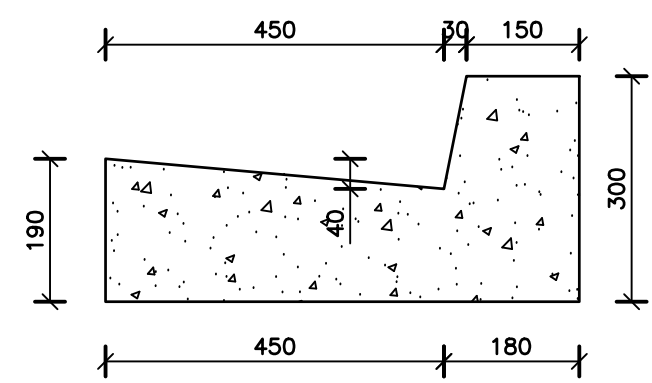


REFERENCE COORDINATION DRAWING		GENERAL NOTES:	
DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.			
STRUCT.			
M.ECH.			
ELEC.			
HYD.			
ISSUE	DATE		
A	19.10.2022		


REFERENCE COORDINATION DRAWING		GENERAL NOTES:	
DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.			
STRUCT.			
M.ECH.			
ELEC.			
HYD.			
ISSUE	DATE		
A	19.10.2022		



LAYBACK PLAN
SCALE 1:50
(REFER TO COUNCIL'S STANDARD DRAWING NO CIV.3.1)



STANDARD KERB & GUTTER
SCALE 1:10
(REFER TO COUNCIL'S STANDARD DRAWING NO CIV.1.1.1)

		REFERENCE COORDINATION DRAWING				GENERAL NOTES:				QUALITY CONTROL				APPROVED:				ADDRESS:		DRAWING STATUS	
						* THIS DRAWING IS THE COPYRIGHT OF NASTASI & ASSOCIATES CONSULTING CIVIL & STRUCTURAL ENGINEERS, Unit 5-1-3 Wythalla Place, Prestons, 2170. PO Box 504, West Ryde, New South Wales, 1585.				 NASTASI & ASSOCIATES CONSULTING CIVIL & STRUCTURAL ENGINEERS B.E., M.I.E., AUST. CPENG NPER-3 ANSA 61-531-2261-008				DESIGNED DATE NV 19.10.2022				LOT 6 NO 17 FALCONER STREET, WEST RYDE		CONCEPT PLAN FOR APPROVAL	
						* IT IS NOT ALLOWED TO COPY OR REPRODUCE IT'S CONTENTS IN ANY FORM EXCEPT FOR THE PURPOSE WHICH IT IS INTENDED WITHOUT THE ABOVE CONSULTANTS APPROVAL.															
						* DO NOT SCALE THIS DRAWING, ONLY SIZED DIMENSIONS ARE TO BE CONSIDERED.															
						* CONTRACTOR TO VERIFY THE DEATH / INFORMATION GIVEN IN THIS DRAWING, ANY DISCREPANCIES SHALL BE BROUGHT TO ENGINEERS ATTENTION PRIOR TO COMMENCEMENT OF WORK, FAILURE TO COMPLY WITH THE ABOVE WILL BE CONTRACTORS LIABILITY.				UNIT 5, 1-3 WYTHALLA PLACE, PRESTONS NSW 2170 PH: (02) 9607 2884 OR (02) 8798 5617 FAX: (02) 9731 2081 MOB: 0419 041 401				CHECKED DATE				TITLE:		SCALE (AT ORIGINAL SIZE) AS NOTED	
A		ISSUED FOR REVIEW																CROSSING DETAILS		PROJECT NO. DRAWING NO. REVISION NO.	
ISSUE		REVISION																		32900-DW C5 A	
		DATE																			