

WAREHOUSE DEVELOPMENT

NO.40 PLATINUM COURT

THURGOONA, NSW 2640

CIVIL WORKS

CIVIL WORKS

CIVIL GENERAL NOTES

3. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL & OTHER CONSULTANTS' DRAWINGS & SPECIFICATIONS & SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
 2. MATERIALS & WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS.
 3. BUILDER TO CONFIRM THE LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCING ANY WORK ON SITE AND ALLOW FOR RELOCATION IF REQUIRED, INCLUDING INVERT LEVELS AT THE LEGAL POINT OF DISCHARGE. SERVICE INFORMATION SHOWN IS BASED ON PLANS SUPPLIED BY AUTHORITIES & IS APPROXIMATE ONLY. THE BUILDER IS TO COMPLY WITH ALL OF THE REQUIREMENTS OF THOSE SERVICES AUTHORITIES.
 4. THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE WORKS.
 5. PRIOR TO THE COMMENCEMENT OF ANY WORKS THE CONTRACTOR MUST VERIFY THAT THE DRAWINGS HAVE BEEN APPROVED BY THE RELEVANT AUTHORITIES.
 6. THESE DRAWINGS MUST NOT BE SCALED AND FOR SITE SET OUT DIMENSIONS REFER TO ARCHITECTS DRAWINGS.
 7. ALL DIMENSIONS & REDUCED LEVELS MUST BE VERIFIED ON SITE BEFORE THE COMMENCEMENT OF ANY WORK.
 8. ANY PROPRIETARY PRODUCTS THAT ARE SPECIFIED ON THESE DRAWINGS (OR APPROVED BY THIS OFFICE) ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS DETAILS AND SPECIFICATIONS.
 9. SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER.
 10. ANY DEFECT OR DEVIATION FROM THE CONTRACT DOCUMENTS THAT REQUIRES ASSESSMENT AND DETERMINATION OF CORRECTIVE MEASURES BY THE ENGINEER SHALL BE UNDERTAKEN AT THE CONTRACTOR'S EXPENSE.
 11. A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN FOR ALL WORKS REQUIRING ATTENDANCE ON SITE BY THE ENGINEER. CONTRACTOR TO ENSURE THAT SUBJECT WORKS ARE COMPLETE PRIOR TO INSPECTION.
 12. ALL LEVELS SHOWN ARE TO AUSTRALIAN HEIGHT DATUM BASED ON THE INFORMATION PROVIDED ARCHITECTURAL DRAWINGS. CONTRACTOR TO VERIFY LEVELS AND TBM PRIOR TO COMMENCEMENT OF WORKS.
 13. THE CONTRACTOR SHALL ARRANGE FOR THE WORKS TO BE SET OUT BY A LICENSED SURVEYOR.
 14. EXISTING SURFACE CONTOURS, WHERE SHOWN, ARE INTERPOLATED & MAY NOT BE ACCURATE.
 15. CONTRACTOR IS TO ARRANGE WITH THE RELEVANT STATUTORY AUTHORITIES FOR ALL NECESSARY INSPECTIONS AND APPROVALS. ALL WORK WITHIN ROAD RESERVES ETC. TO BE CARRIED OUT TO THE SATISFACTION OF THE RELEVANT AUTHORITIES.
 16. AS FAR AS REASONABLY PRACTICABLE, THE WORKS SHALL BE MAINTAINED IN A NOMINALLY DRY CONDITION WHILE THEY ARE IN PROGRESS, AND PARTICULAR CARE SHALL BE TAKEN TO PREVENT DUSTING, FLOODING, PONDING, SEEPAGE AND EROSION.
 17. ANY STRUCTURES, PAVEMENTS OR SURFACES DAMAGED, DIRTIED OR MADE UNSERVICEABLE DUE TO CONSTRUCTION WORK SHALL BE REINSTATED TO THE SATISFACTION OF THE ENGINEER, CLIENT AND THE RELEVANT AUTHORITY.
 18. THE CONTRACTOR TO PROVIDE AS BUILT DRAWINGS OF ALL THEIR WORKS IN BOTH DIGITAL AND HARDCOPIES FOR REVIEW.
 19. ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING.
 20. THE CONTRACTOR SHALL INSTALL AND MAINTAIN SOIL EROSION AND SEDIMENT CONTROL MEASURES GENERALLY IN ACCORDANCE WITH THE GUIDELINES OF THE E.P.A. AND AS NECESSARY TO PREVENT RUN-OFF FROM THE SITE OF SEDIMENT RESULTING FROM HIS WORKS. SUCH MEASURES SHALL ALSO COMPLY WITH REQUIREMENTS OF THE RELEVANT AUTHORITY.
 21. THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION UNTIL THE DRAWING REVISION IS NOTED AS "APPROVED FOR CONSTRUCTION".
 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND AT ALL TIMES PROVIDE A SAFE WORKING ENVIRONMENT IN THE VICINITY OF WORKS IN ACCORDANCE WITH ALL OCCUPATIONAL HEALTH AND SAFETY REGULATIONS.
 23. PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR MUST VERIFY THE FEASIBILITY OF THE OUTFALL DRAINAGE TO THE LEGAL POINT OF DISCHARGE AS DOCUMENTED BY:
 - a) VERIFICATION OF THE INVERT LEVEL OF THE DRAIN COMPLYING THE LEGAL POINT OF DISCHARGE.
 - b) VERIFICATION THAT THE ROUTE OF THE DRAINAGE IS CLEAR OF ALL OBSTRUCTIONS AND EXISTING SERVICES.IF EITHER OF THE ABOVE CANNOT BE ACHIEVED THE CONTRACTOR IS TO NOTIFY LAKER GROUP PRIOR TO PROCEEDING WITH WORKS.
- EARTHWORKS**
24. ALL EARTHWORKS ARE TO BE PERFORMED IN ACCORDANCE WITH AS 3798. REFER TO THE RELEVANT GEOTECHNICAL REPORT BY BHM GEOTECHNICAL REF: L23 REV 0 DATED OCT 2024 PRIOR TO COMMENCEMENT OF WORKS.
 25. UNLESS OTHERWISE NOTED, ALL VEGETATION AND ORGANIC MATERIAL SHALL BE STRIPPED TO A MINIMUM OF 150mm OR AS SPECIFIED IN THE GEOTECHNICAL REPORT TO THE GREATER VALUE UNDER ALL PROPOSED PAVEMENTS AND BUILDING AREAS. STOCKPILE TOPSOIL IN DESIGNATED AREAS FOR REUSE IN LANDSCAPING WORKS OTHERWISE REMOVE OFFSITE.

EARTHWORKS

24. ALL EARTHWORKS ARE TO BE PERFORMED IN ACCORDANCE WITH AS 3798. REFER TO THE RELEVANT GEOTECHNICAL REPORT BY BHM GEOTECHNICAL REF: L23 REV 0 DATED OCT 2024 PRIOR TO COMMENCEMENT OF WORKS.
25. UNLESS OTHERWISE NOTED, ALL VEGETATION AND ORGANIC MATERIAL SHALL BE STRIPPED TO A MINIMUM OF 150mm OR AS SPECIFIED IN THE GEOTECHNICAL REPORT TO THE GREATER VALUE UNDER ALL PROPOSED PAVEMENTS AND BUILDING AREAS. STOCKPILE TOPSOIL IN DESIGNATED AREAS FOR REUSE IN LANDSCAPING WORKS OTHERWISE REMOVE OFFSITE.

26. THE EXPOSED AREA IS TO BE PROOF ROLLED AS SPECIFIED IN THE GEOTECHNICAL ENGINEERS REPORT. ANY SOFT SPOTS ARE TO BE IDENTIFIED AND MEASURED WITH THE SUPERINTENDENT. THE SOFT SPOTS ARE TO BE REMOVED AND BACKFILLED WITH APPROVED FILL MATERIAL AS SPECIFIED IN THE GEOTECHNICAL ENGINEERS REPORT. PLACED AND COMPACTED IN 150mm LAYERS TO A DENSITY NO LESS THAN THAT OF THE SURROUNDING SOIL.
27. PRIOR TO PLACING FILL MATERIAL THE SURFACE OF THE ENTIRE SITE IS TO BE COMPACTED TO 100% STANDARD DENSITY AND TESTED AT A RATE OF ONE TEST PER 300m² OF THE SITE.
28. ALL FILL MATERIALS UNDER THE ROAD PAVEMENT, PATHS AND BUILDING ARE TO BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERS REPORT OTHERWISE CLASS 2 FCR TO VICROADS SPECIFICATION.
29. ALL FILL AND PAVEMENT MATERIALS SHALL BE COMPACTED IN 150mm MAXIMUM LOOSE THICKNESS LAYERS TO THE DENSITIES SPECIFIED BELOW OR IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERS REPORT TO THE GREATER PERCENTAGE.

LANDSCAPED AREAS	90% STD.
FILL UNDER FOOTINGS & FLOOR SLABS FOR ANY STRUCTURE:--	98% STD.
FILL UNDER ROAD PAVEMENTS:--	98% MDD.
ROAD PAVEMENT MATERIALS:--	98% MDD.
30. THE CONTRACTOR IS TO INCLUDE FOR PROJECT CONTROL TESTING OF ALL LAYERS OF FILLING AS THE WORKS PROCEED AT A RATE SPECIFIED IN AS3789 OF SITE AREA PER LAYER OF FILLING. THESE TESTS SHALL BE CARRIED OUT TO AS1289 AND BY AN NATA REGISTERED GEOTECHNICAL ENGINEER. THE RESULTS SHALL BE MADE AVAILABLE AT THE SITE DURING THE CURRENCY OF THE WORKS, LAYER BY LAYER UP TO THE FINISHED PLATFORM RL. THESE WORKS ARE TO BE PROTECTED FROM THE INGRESS OF WATER BOTH DURING AND AFTER CONSTRUCTION UNTIL SLAB AND PAVEMENTS ARE CONSTRUCTED.
31. THE CONTRACTOR IS TO ENGAGE AN NATA REGISTERED GEOTECHNICAL ENGINEER TO PROVIDE ADVICE AND TO CARRY OUT "LEVEL 2 SUPERVISION" TESTING AND SUPERVISION DURING THE CONSTRUCTION STAGE IN ACCORDANCE TO AS3798 AND AS1289.
32. EACH LAYER OF THE FILL IS TO BE PROOF ROLLED UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER.
33. GRADE EVENLY BETWEEN FINISHED SURFACE SPOT LEVELS. (FINISHED SURFACE CONTOURS ARE NOT SHOWN FOR CLARITY). WHERE FINISHED SURFACE LEVELS ARE NOT SHOWN, THE SURFACE SHALL BE GRADED SMOOTHLY SO THAT IT WILL DRAIN & TO MATCH ADJACENT SURFACES OR STRUCTURES.
34. ALL SURPLUS EXCAVATED MATERIAL SHALL BE REMOVED OFF SITE.

DRAINAGE

35. STORMWATER TO BE IN ACCORDANCE WITH AS3500 – NATIONAL PLUMBING AND DRAINAGE CODE (ALL PARTS).
36. CONTRACTOR TO MAINTENANCE CLEAN ALL NEW AND EXISTING STORMWATER DRAINAGE PRIOR TO LEAVING THE SITE.
37. IO CAPS MUST HAVE A LOAD CAPACITY FOR AREA OF USE, IE. SCREWED PLASTIC IN LANDSCAPED AREAS & CAST IRON IN PAVEMENT.
38. UNLESS OTHERWISE NOTED, ALL DOWNPIPES SHALL BE CONNECTED TO PITS OR MAIN STORMWATER DRAINS WITH 100Ø UPVC PIPES UNLESS NOTED OTHERWISE AND LAID AT A MINIMUM GRADE OF 1 IN 100.
39. ALL IN-GROUND DRAINS ARE TO BE 100Ø MINIMUM UNLESS OTHERWISE NOTED ON THE DRAWINGS.
40. ALL MAIN STORMWATER DRAINS SHALL BE CONSTRUCTED USING ONE OF THE FOLLOWING TYPES OF PIPES WITH RUBBER RING JOINTS;
 - a) RCP IN ACCORDANCE WITH A.S.4058,
 - b) UPVC IS TO BE SEWER GRADE AND IN ACCORDANCE WITH A.S.1260
 - c) FRC IN ACCORDANCE WITH A.S.4139.
 - d) HDPE IN ACCORDANCE WITH A.S.5065.
 - e) ANY OTHER TYPES OF PIPE MUST BE REFERRED TO ENGINEER FOR APPROVAL PRIOR TO WORK.
41. INSPECTION OPENINGS FOR THE MAINTENANCE OF SITE STORMWATER DRAINS SHALL BE EXTENDED TO & CAPPED AT THE FINISHED SURFACE LEVEL & BE INSTALLED AT:
 - a) EACH POINT OF CONNECTION
 - b) SPACINGS NOT MORE THAN 30m
 - c) ANY CHANGE OF DIRECTION GREATER THAN 45°
 - d) AS ADDITIONALLY INDICATED ON THE DRAWINGS
42. GENERALLY FOR TRENCHING WORKS THE CONTRACTOR MUST;
 - a) COMPLY WITH THE GENERAL PROVISIONS OF SECTION 21 OF THE "OCCUPATIONAL HEALTH & SAFETY ACT".
 - b) COMPLY WITH THE "OCCUPATIONAL HEALTH & SAFETY CODE OF PRACTICE FOR SAFETY PRECAUTIONS IN TRENCHING OPERATIONS".

DRAWING INDEX

C01	COVER SHEET, GENERAL NOTES AND DRAWING REGISTER
C02	GROUND FLOOR DRAINAGE PLAN
C03	CIVIL DETAILS SHEET 1 OF 2
C04	CIVIL DETAILS SHEET 2 OF 2

	Rev.	Revision Description	Date	PRELIMINARY ISSUE NOT TO BE USED FOR CONSTRUCTION PURPOSES	LAKER GROUP info@lakergroup.com.au www.lakergroup.com.au	WAREHOUSE DEVELOPMENT 40 PLATINUM COURT THURGOONA, NSW 2640	COVER SHEET, GENERAL NOTES AND DRAWING REGISTER	Scale: AS SHOWN AT A1		
								Designed: J.B.	Drawn: J.B.	
								Date: NOV 2024		
								Project No.	Drawing No.	Revision
								JB123	C01	P1
P1	PRELIMINARY ISSUE	17.11.24	All CAD drawings shall be read in conjunction with the Specification and Architectural drawings and shall not be used. All discrepancies are to be referred to the Architect or Engineer before commencing work. All dimensions and levels are to be referred to this drawing for the building unless otherwise stated.							

ALL FINISHED SURFACE TO BE GRADED AWAY FROM BUILDING OUTLINE/DOORS AT 1 IN 50 MIN. INTO THE NEAREST STORMWATER DRAIN/PIT

PROVIDE SAWCUT JOINTS AND EXPANSION JOINTS TO NEW CONCRETE PAVEMENT AT SPACING OF NOT MORE THAN 3.0m AND 12.0m APART RESPECTIVELY.

ANY DRAINAGE PIPE WITH NO GRADE SHOWN IS TO HAVE A MINIMUM GRADE OF 1 IN 100 AND DRAINAGE PIPE TO BE MINIMUM 150mmØ UPVC PIPE UNLESS NOTED OTHERWISE.

ALL INTERNAL DRAINAGE TO BE CONSTRUCTED AS PER AUSTRALIAN STANDARD AS/NZS 3500.3:2021



LEGEND

TP	TOP OF PIT
INV	INVERT
K	CONCRETE KERB
K&C	CONCRETE KERB AND CHANNEL
FO	FLUSH OUT RISER
AG	100mmØ AGRICULTURAL/SUBSOIL DRAIN
150mmØ SUSPENDED UPVC PIPE GRADED @ 1:100MIN. UNLESS NOTED OTHERWISE	
150mmØ IN-GROUND DRAINAGE PIPE GRADED @ 1:100MIN. UNLESS NOTED OTHERWISE	
150mmØ IN-GROUND CHARGED DRAINAGE PIPE GRADED @ 1:100MIN. UNLESS NOTED OTHERWISE	
x P55.55	PROPOSED PAVEMENT LEVEL
x EX55.55	EXISTING PAVEMENT LEVEL
1:100 MIN. U.N.O	FINISHED SURFACE FALL DIRECTION
SC	SAWCUT JOINT @ EVERY 3m SPACING MAX
EL	EXPANSION JOINT @ EVERY 12m SPACING MAX
FW (D)	150mmØ FLOOR WASTE
B1	CONCRETE KERB
B2	CONCRETE KERB AND CHANNEL
DP	150mmØ DOWNPIPE
I.O.	INSPECTION OPENING
BOL	PROPOSED BOLLARD
RW	RETAINING WALL TO ARCH/STRUCTURAL DETAILS

INDICATIVE EXTENT SHOWN THUS ON PLAN. REFER TO LANDSCAPE/ARCHITECT DRAWING FOR EXACT LOCATION AND EXTENT. PROVIDE SJ @ 3m MAX AND EJ @ 12m MAX.

CONCRETE DRIVEWAY PAVEMENT

REFER TO DRAWING C03 FOR DETAILS

NOTE:-
AN OPENING PERMIT IS REQUIRED FOR ALL CONNECTIONS INTO COUNCIL'S ASSETS. PRIOR TO CONNECTION, CONTACT COUNCIL'S ASSETS ENGINEER FOR ADVICE AND INSPECTION.

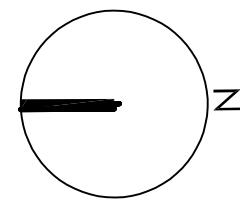


WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT SIZE, DEPTH AND LOCATION MUST BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

PLATINUM COURT

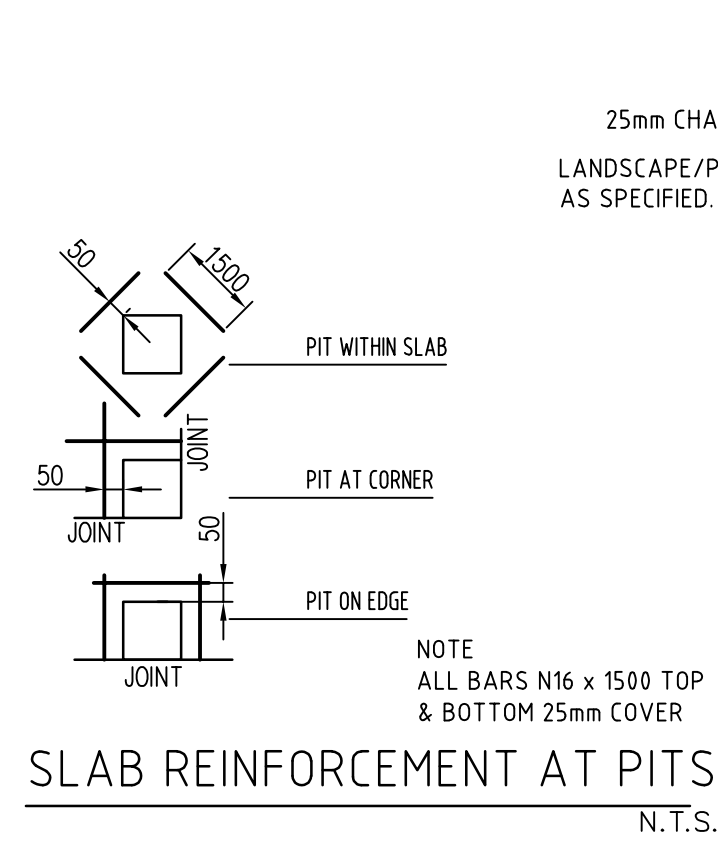
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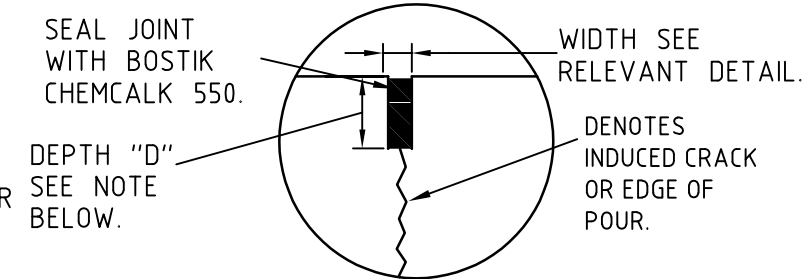


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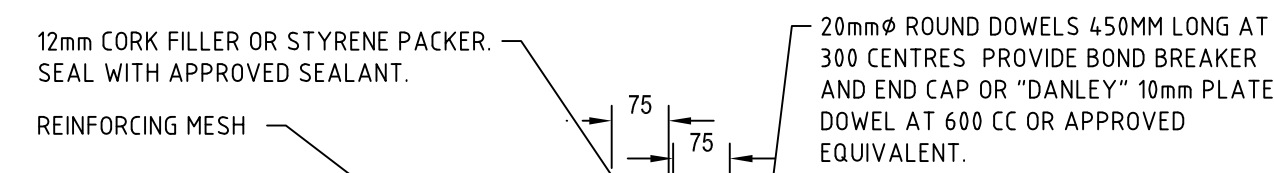
LEGEND		EX S/DH	EX. ELECTRICITY OVERHEAD	
		EX W	EX. WATER MAIN	
		EX T	EX. TELECOMMUNICATION	
		EX	EX. SENDER	
TP	TOP OF PILE		SAWCUT JOINT	
LL	LOWEST LEVEL		CONSTRUCTION JOINT	
FF	FINISHED FLOOR LEVEL		AG	AGRICULTURAL/SUBSOIL DRAIN
DO	DOOR		EX S	EX. STORMWATER DRAIN
LD	LANDSCAPE OPENING	AG	EX. SENDER	
	SUSPENDED PIPE	D/S	EX. STORMWATER DRAIN	
	CHARGED PIPE	EX W	EX. WATER MAIN	
	IN-GROUND DRAINAGE PIPE	EX T	EX. TELECOMMUNICATION	
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		EX T	EX. TELECOMMUNICATION	
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TRENCH BACK FILLING DETAIL UNDER LANDSCAPED AREAS



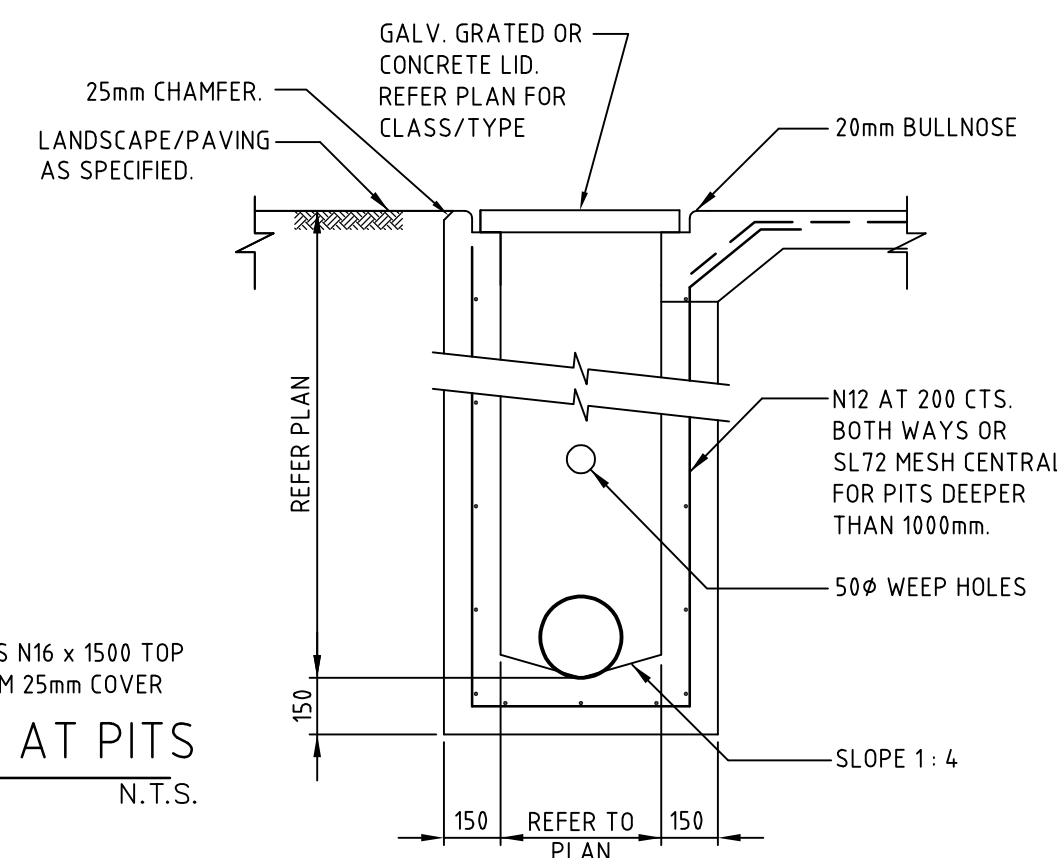
CONSTRUCTION JOINT (C.J.)



DOWELLED EXPANSION JOINT (E.J.)

-
- Diagram illustrating the cross-section of a Bioretention Rain Garden Cell. Key components and labels include:
- KERB BREAKS INTO RAIN GARDEN**: Indicated at the top with dimensions 2000 and 500.
 - ROCK / PEBBLE LINING TO RETARD FLOW RATE AND PREVENT EROSION. PROVIDE 100mmØ TO 200mmØ SIZE ROCK BEACHING AT ENTRY OF KERB / OUTLET OF PIPE.**: Lining the bottom and sides of the cell.
 - BIORETENTION RAIN GARDEN CELL**: The main body of the cell.
 - GRADED PIT - REFER TO PLAN FOR LOCATION**: Located on the left side of the cell.
 - B1/B2**: Label near the top right corner.
 - 12**: Vertical dimension indicating the depth of the cell.

TYPICAL KERB OPENING DETAIL



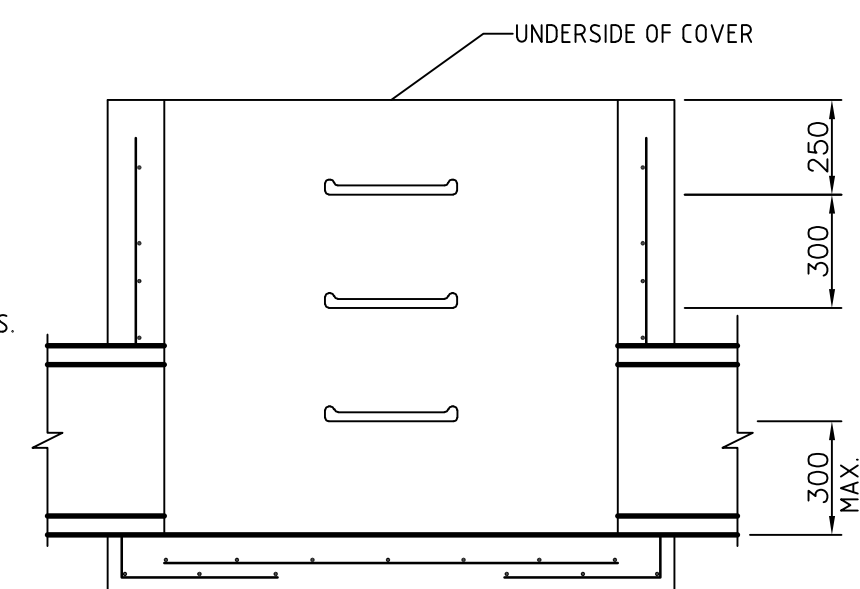
TYPICAL PIT DETAILS

1. ALL PIT LID R/L'S AND I/L'S ARE TO BE CONFIRMED ON SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
 2. STEP IRONS REQUIRED WHERE PIT DEPTH EXCEEDS 1000mm IN ACCORDANCE WITH AS 1657 TYP.
 3. PRECAST CONCRETE PITMS MAY BE USED WITHIN THE SITE AND EXTERNALLY WITH PRIOR COUNCIL APPROVAL ONLY.
 4. ALL STORMWATER PITS LOCATED IN GRASED AREAS ARE TO BE PROVIDED WITH MASS CONCRETE MOWING STRIPS. REFER BELOW FOR MIN. MOWING STRIP REQUIRED.
- | NOMINAL PIT SIZE | MINIMUM WIDTH | MINIMUM THICKNESS |
|------------------------|---------------|-------------------|
| 450 x 450 to 600 x 900 | 300mm | 100mm |
| 900 x 900 AND GREATER | 450mm | 100mm |
5. ALL GRASED STORMWATER PITS LOCATED IN PAVING AREAS AND PATHWAYS ARE TO BE FITTED WITH 'HEELGUARD' TYPE GRATED LIDS. CONFIRM WITH THE ARCHITECT.
 6. PROVIDE LOCKABLE LIDS WITH MASTER KEY TO ALL PITS EXCEEDING 600mm IN DEPTH OR 600 x 600 AND GREATER INTERNAL WIDTH.
 7. WHERE PITS ARE LOCATED IN CONCRETE PAVED AREA, PROVIDE 3x 121M x 2000mm LONG OR 3x N12 x 1800mm LONG AT 50 CTS. TOP RE-ENTRANT CORNER BARS TIED TO TOP MESH.
 8. PROVIDE GRATED LIDS PROFILED TO SUIT WHERE GRATED PITS ARE LOCATED IN SPOON DRAINS, SWALES, KERBS, ETC.

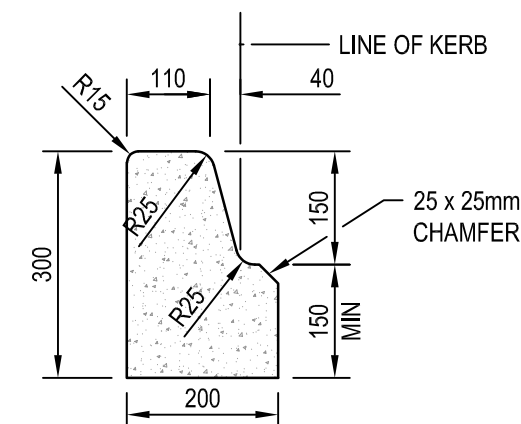
 DENOTED AS THUS ON PLAN

1. AT CONNECTION TO BUILDING SLAB AND NEW PAVEMENT, PROVIDE 2X10 DOWELS x 450mm LONG AT 300 CTS. DRILLED AND EPOXY GROUT 150mm MIN. INTO EXISTING WITH 10mm ABLEFLEX JOINT WITH 10 x 10mm DEEP OF POLYURETHANE SEALANT.
2. ALLOW TO PROVIDE SAWCUT JOINTS AT 3.0m MAX. CTS. AND EXPANSION JOINTS AT NO MORE THAN 12m MAX. CTS.
3. PROVIDE 300 wide x 300mm DEEP EDGE THICKENING WITH 3-L21M BTM. TO ALL CONCRETE PAVEMENT EDGES.
4. PROVIDE 3-N12 BARS x 1200mm LONG TOP TO ALL RE-ENTRANT CORNERS AND PIT LOCATIONS.
5. CONFIRM ALL PAVEMENT EXTENTS AND FINISHES WITH THE ARCHITECT/LANDSCAPE.

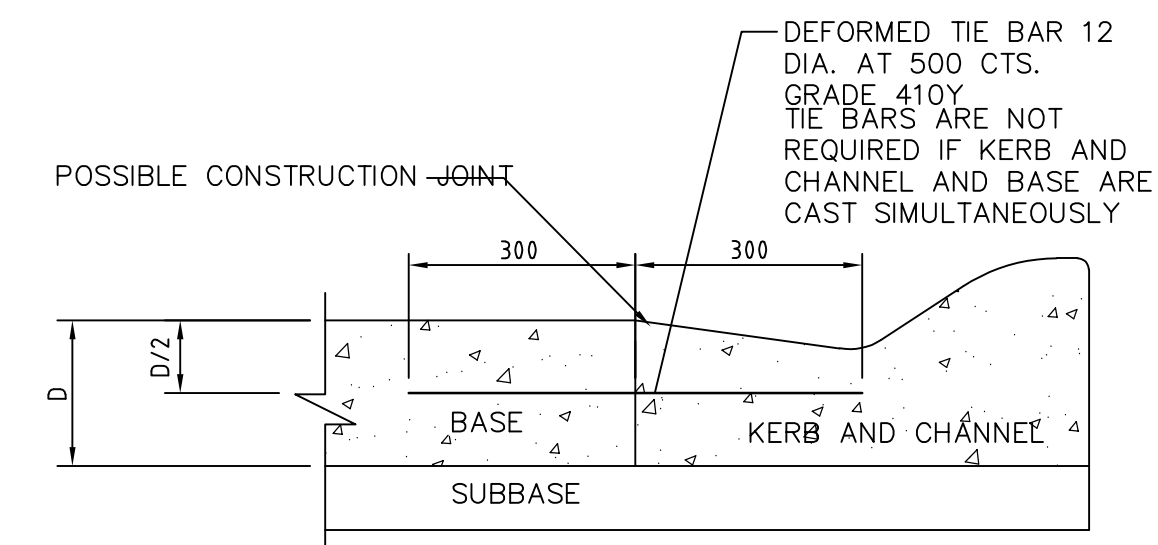
1. PITS DEEPER THAN 1000 SHALL BE FITTED WITH STEP IRON,
STEP IRONS SHALL BE LOCATED:
-DIRECTLY BELOW THE OPENING IN THE COVER
-DESIRABLY ON A WALL WITHOUT PIPE OPENINGS.
-DESIRABLY ON ONE OF THE LONG SIDES OF THE PIT.
3. STEEL FOR STEP IRONS SHALL BE STRUCTURAL GRADE 250 TO A536/79/1990 PART 1.
4. STEP IRONS SHALL HAVE SHARP EDGES ROUNDED AND HOT DIP GALVANIZED AFTER FABRICATION TO A1650/1989.
5. PROPRIETARY STEPS SUCH AS THE GATIC PS2-PF POLYPROPYLENE STEPS (OR APPROVED ALTERNATIVES) MAY BE USED. THESE SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS INSTRUCTIONS.
6. FOR PRECAST PITS. STEP IRONS SHALL BE LOAD TESTED TO A54198/1994.



TYPICAL STEP IRON DETAILS

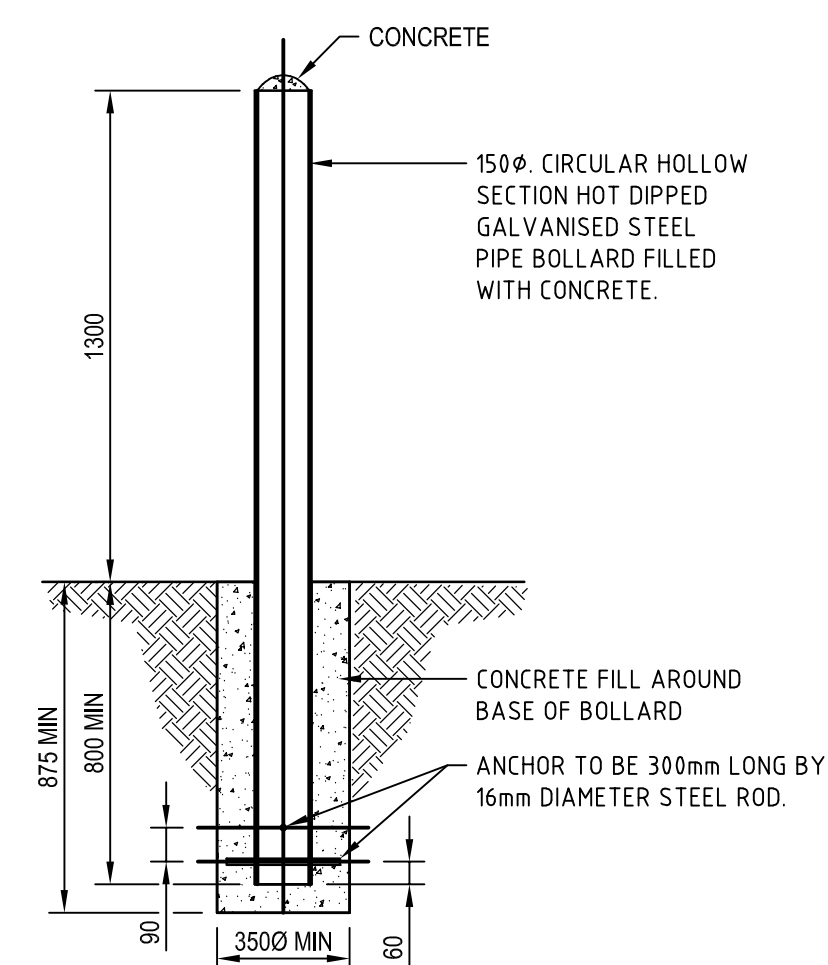


BARRIER KERB (B1) DETAIL

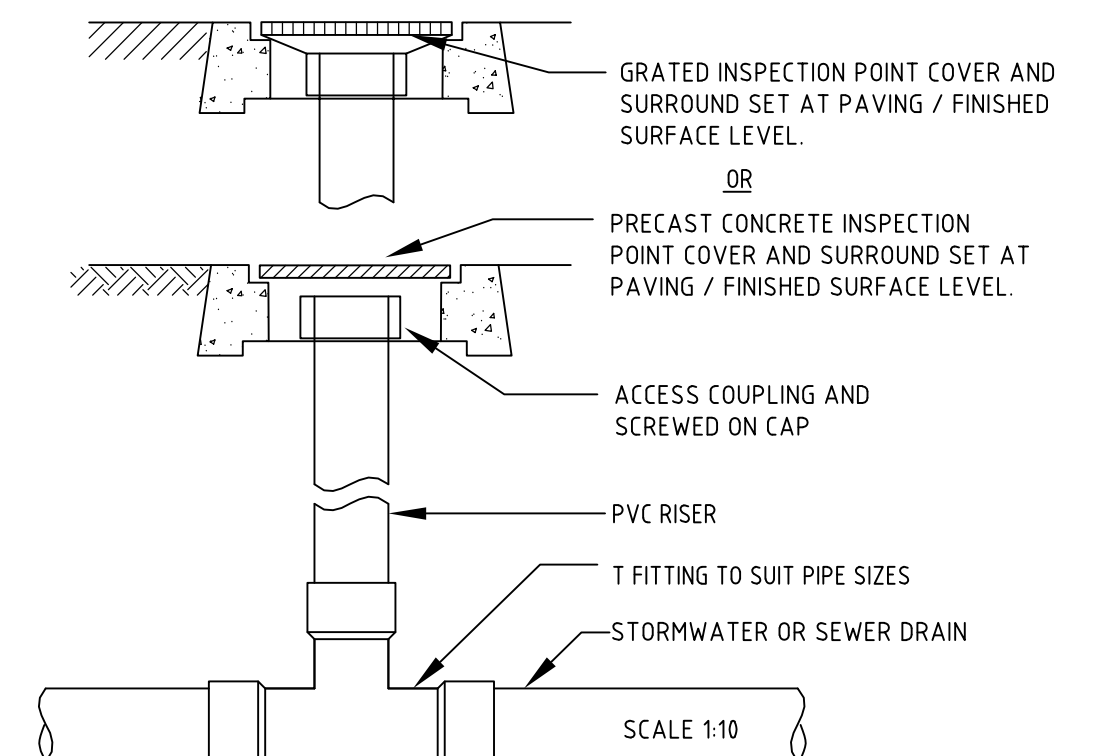


CONCRETE KERB AND CHANNEL (B2) DETAIL

1. TIE BAR SHALL NOT BE PLACED WITHIN 500mm OF A TRANSVERSE CONTRACTION JOINT.
2. REINFORCEMENT FOR JOINTED AND CONTINUOUSLY REINFORCED PAVEMENTS IS NOT SHOWN. REFER TO SCHEDULE FOR DETAILS.
3. SUBBASE AND BASE LONGITUDINAL JOINTS SHALL BE OFFSET BY NOT LESS THAN 250mm BUT NOT MORE THAN 300mm.



BOLLARD DETAIL



INSPECTION OPENING DETAIL

Rev.	Revision Description	Date
P1	PRELIMINARY ISSUE	17.11.24

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION PURPOSES

All Civil drawings shall be read in conjunction with the Specification and Architectural drawings, and shall not be scaled.

All discrepancies are to be referred to the Architect or Engineer before commencing work.

All dimensions and levels are to be verified on site by the Builder before commencing work.

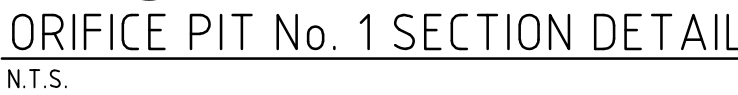
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WAREHOUSE DEVELOPMENT
40 PLATINUM COURT
THURGOONA, NSW 2640

CIVIL DETAILS
SHEET 1 OF 2

Scale: AS SHOWN		AT A1
Designed: J.B.	Drawn: J.B.	
Date: NOV 2024		
Project No.	Drawing No.	Revision
JB123	C03	P1



PIT NOTES
THE FOLLOWING APPLIES UNLESS NOTED OTHERWISE;

1. PIT COVER LEVELS ARE TO BE TAKEN FROM THE CENTRE OF THE PIT.
2. ALL PIT COVERS ARE TO SLOPE TO MATCH THE SURROUNDING FINISHED SURFACE LEVELS/SLOPES.
3. ALL PIT COVERS LARGER THAN 900X600 ARE TO BE MULTI PART COVERS.
4. ALL COVERS ARE TO MATCH THE PIT OPENING DIMENSIONS.
5. INSTALL STEP IRONS @ 300mm CENTRES FOR PITS 1.0M OR DEEPER.

- All Civil drawings shall be read in conjunction with the Specification and Architectural drawings, and shall not be scaled.
- All discrepancies are to be referred to the Architect or Engineer before commencing work.
- All dimensions and levels are to be verified on site by the Builder before commencing work.

NOT TO BE USED FOR CONSTRUCTION PURPOSES



WAREHOUSE DEVELOPMENT
40 PLATINUM COURT
THURGOONA, NSW 2640

CIVIL DETAILS
SHEET 2 OF 2

Scale: AS SHOWN		AT A1
Designed: J.B.	Drawn: J.B.	
Date: NOV 2024		
Project No.	Drawing No.	Revision
JB123	C04	P1