# LONGUEVILLE AGED CARE DEVELOPMENT 16 NORTHWOOD ROAD, NORTHWOOD CIVIL ENGINEERING DA PACKAGE

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### DIAL BEFORE YOU DIG





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G	ISSUE FOR DA	22.02.21	AL	TF	North
F	ISSUE FOR DA	02.02.21	AL	TF	
E	ISSUE FOR DA	21.01.20	IK	TF	
D	ISSUE FOR DA	20.01.20	IK	TF	$\sim$
Issue	Description	Date	Drawn	Approved	
1 0	10cm 10cm			20cm	



40 CHANDOS STREET ST LEONARDS, NSW, 2065 PHONE : 1800 825 586

LOCALITY PLAN NOT TO SCALE

OR

ACOR Consultants Pty Ltd Suite 2, Level 1, 33 Herbert Street St Leonards NSW 2065 T +61 2 0438 5098
Project LONGUEVILLE AGED CARE DEVELOPMENT



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302/69 CHRISSTIE STREET ST LEONARDS, NSW, 2065 PHONE : 9966 5566

**MORRISON DESIGN** 

PARTNERSHIP ARCHITECTS

# DRAWING UNDER REVISION NOT FOR CONSTRUCTION

4 -18 NORTHWOOD ROAD, 274 & 274A LONGUEVILLE ROAD CONSULTANTS ENGINEERS | MANAGERS | INFRASTRUCTURE PLANNERS | DEVELOPMENT CONSULTANTS | LANE COVE, NSW, 2066

COVER SHEET AND DRAWING INDEX

Drawn	Date	Scale	A1	Q.A. Check	Date
DV	AUG 20	NTS			
Designed	Project No.		<b>.</b>	Dwg. No.	Issue
DV	NSV	<u>V200</u>	613	DAC1.01	G

#### GENERAL NOTES

- ALL WORK TO BE IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS, AND TO THE REQUIREMENTS OF COUNCIL ENGINEERS.
- A SURVEY OF THE SITE HAS BEEN UNDERTAKEN BY LAND PARTNERS BUILT ENVIRONMENTAL. CONSULTANTS AS RECEIVED BY ACOR CONSULTANTS PTY LTD' ON 20.04.2020. ALL LEVELS TO A.H.D. DRAWINGS SHOW DETAILS AT THE TIME OF SURVEY
- ALL RUBBISH, DEBRIS, UNDERGROWTH, FENCES & TREES NOTED ON THE PLAN WITHIN THE LIMIT OF WORKS ARE TO BE REMOVED FROM SITE AREA TO THE SATISFACTION OF COUNCIL OR THE SUPERINTENDENT
- NO DISTURBANCE TO THE SITE SHALL BE PERMITTED OTHER THAN IN THE IMMEDIATE AREA OF THE WORKS AND NO MATERIAL SHALL BE REMOVED FROM SITE WITHOUT COUNCIL APPROVAL
- NO WORK WITHIN ADJOINING PROPERTIES TO BE UNDERTAKEN WITHOUT WRITTEN PERMISSION FROM THE OWNERS OR RESPONSIBLE AUTHORITY
- THE CONTRACTOR SHALL OBTAIN LEVELS FROM ESTABLISHED BENCHMARKS ONLY
- THE LOCATION OF RECOVERY MARKS AND BENCH MARKS SHOULD BE VERIFIED AND CONFIRMED BY THE CONTRACTOR AND ANY DISCREPANCIES SHOULD BE CLARIFIED IN WRITING WITH THE SURVEYOR PRIOR TO THE COMMENCEMENT OF WORK
- THE CONTRACTOR SHALL ERECT A POLLUTION WARNING SIGN AT THE ENTRANCE TO THE SUBDIVISION OR PROPOSED DEVELOPMENT
- SERVICE CONDUITS SHALL BE PLACED AS DIRECTED BY ENDEAVOUR ENERGY, NBN / TELSTRA, AND AS REQUIRED BY THE RELEVANT SERVICE AUTHORITY AND AS PER SERVICE AUTHORITY APPROVED PLANS
- 10. STREET SIGNS REQUIRED WHERE SHOWN. STREET SIGNS TO COUNCIL STANDARD SHALL BE INSTALLED BY THE CONTRACTOR.
- 11. SIGNPOSTING AND LINEMARKING TO CONFORM WITH AS1742.2 & AS1743. RAISED RETRO-REFLECTIVE PAVEMENT MARKERS TO CONFORM WITH AS1906 & AS1743.
- 12. KERB RAMP CROSSINGS TO BE PROVIDED WHERE SHOWN ON PLAN AND CONSTRUCTED AS DETAILED AND TO COUNCIL STANDARDS
- 13. NO TREES ARE TO BE REMOVED OR LOPPED OTHER THAN THOSE SHOWN AND THOSE IN ROAD RESERVES, WITHOUT COUNCILS WRITTEN PERMISSION. A TREE INSPECTION WITH COUNCIL SHALL BE ARRANGED ONCE LOTS HAVE BEEN PEGGED.
- 14. ALL NEW WORKS ARE TO MAKE SMOOTH JUNCTIONS WITH ALL EXISTING CONDITIONS. AC JOINTS TO BE SAW CUT AT CONNECTION TO EXISTING PAVEMENT. THE CONTRACTOR IS TO MAKE ALL DUE ALLOWANCES FOR WORKS DURING CONSTRUCTION.
- 15. SUBSOIL DRAINAGE TO BE PROVIDED BEHIND KERBING AS PER APPROVED PLANS AND AS DIRECTED BY COUNCIL OR THE CERTIFIER DURING CONSTRUCTION.
- 16. THE THICKNESS OF ROAD PAVEMENTS SHALL BE CONFIRMED BY THE CONTRACTOR UPON COMPLETION OF SUBGRADE TESTING UNDERTAKEN BY THE CONTRACTOR.
- 17. SERVICES TO EXISTING DEVELOPMENTS ARE TO BE MAINTAINED AT ALL TIMES.
- 18. PROPOSED SERVICES CROSSING EXISTING ROADS SHALL BE THRUST BORED UNDER THE ROAD SO AS NOT TO DAMAGE EXISTING SURFACES.
- 19. CONTRACTOR IS TO VERIFY THE LOCATION OF ALL EXISTING SERVICES WITH EACH RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DAMAGE TO SERVICES SHALL BE REPAIRED BY THE CONTRACTOR OR THE RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE. SERVICES SHOWN ON THESE PLANS ARE ONLY THOSE EVIDENT AT THE TIME OF SURVEY. ANY UTILITIES ADJUSTMENTS REQUIRED TO BE AT THE CONTRACTORS EXPENSE.
- 20. ENSURE ADEQUATE TRENCH FOUNDATION AND BEDDING COMPACTION SPECIFICALLY ADJACENT TO DRAINAGE STRUCTURES AND PROTECTION TO PIPES FROM CONSTRUCTION TRAFFIC. CRACKED STORMWATER PIPES WILL NOT BE ACCEPTED.
- 21. PROVIDE GALVANISED STEEL KERB OUTLETS PLACED IN KERB ON LOW SIDE OF LOTS, 500mm FROM BOUNDARY OR WHERE SHOWN. PROVIDE SUITABLE ADAPTOR TO ALLOW CONNECTION OF 90mm DIA. S.W.PIPE IN ACCORDANCE WITH COUNCIL STANDARDS
- 22. NO MATERIALS TO BE STOCKPILED ON FUTURE ALLOTMENTS WITHOUT APPROVAL IN WRITING FROM THE CLIENTS REPRESENTATIVE.
- 23. MINIMUM SITE DISTURBANCE AND MAXIMUM VEGETATION AND TREE PRESERVATION TO BE MAINTAINED AT ALL TIMES.
- 24. EROSION AND SILT PROTECTION MEASURES ARE TO BE MAINTAINED AT ALL TIMES AND THE LENGTH OF TRENCH OPENINGS MINIMISED.
- 25. THE CONTRACTORS ITP SHALL ALLOW FOR A HOLD POINT TO ALLOW CHECK LEVELS AND PROOF ROLL PRIOR TO PLACEMENT OF SUB BASE COURSE
- BASE COURSE MATERIAL WEARING COURSE MATERIAL, PRIME COAT TWO WEEKS PRIOR TO AC SEAL, THICKNESS OF
- AC SEAL AS SPECIFIED
- 26. ALL PIPES TO BE SOCKET/SPIGOT RUBBER RING JOINT FRC PIPES CLASS '3' OR REINFORCED CONCRETE CLASS '3'. UNLESS NOTED OTHERWISE.
- 27. GRATES TO COMPLY WITH COUNCIL STANDARDS, ALL GRATES TO BE CYCLE FRIENDLY GALVANISED BOLT DOWN TYPE.
- 28. STEP IRONS REQUIRED IN PITS GREATER THAN 1.0m DEPTHS.
- 29. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE FULL QA DOCUMENTATION OF THE PROJECT TO ENSURE WORKS MEET THE RELEVANT SECTIONS OF THE CC FOR ROADS AND DRAINAGE WORKS. A COMPLETE ITP PLAN SHALL BE SUBMITTED TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO WORKS COMMENCING ON SITE, COVERING ALL ASPECTS OF THE CONTRACT.

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#### GENERAL NOTES

- 30. ALL WORKS ARE TO BE SETOUT BY A REGISTERED SURVEYOR.
- 31. THE CLIENT WILL PREPARE WAE DRAWINGS AT COMPLETION TO ENSURE THE WORKS MEET THE REQUIREMENTS OF THE DESIGN.
- 32. A TRAFFIC CONTROL PLAN IS TO BE SUBMITTED TO COUNCIL BY THE CONTRACTOR FOR APPROVAL PRIOR TO WORKS COMMENCING.
- 33. CONTRACTOR IS TO PROVIDE A 3m LONG LENGTH OF 100Ø SUBSOIL DRAINAGE LINE ON THE UPSTREAM SIDE OF DRAINAGE PITS, INCLUDING GEOFABRIC SOCK AND NOM. 20mm GRAVEL
- 34. ALL DRAINAGE TRENCHES WITHIN THE ROAD RESERVE ARE TO BE BACKFILLED WITH CLEAN SHARP SAND.
- 35. SUB-BASE AND BASE MATERIALS FOR ROADS MUST COMPLY WITH RMS SPECIFICATION 3051 OR THE COUNCIL'S SPECIFICATION. ALL OTHER ROAD PAVEMENT MATERIALS MUST COMPLY WITH THE RELEVANT RMS SPECIFICATION OR THE COUNCIL'S SPECIFICATION.
- 36. ALL ROADS SHALL BE SURFACED WITH AN INITIAL COURSE OF 25mm THICKNESS AC10. FINAL WEARING COURSE OF 25mm THICKNESS OF AC10 WILL BE LAID BY COUNCIL AT A LATER DATE AND PAID FOR BY THE APPLICANT AS A MONETARY PAYMENT.
- 37. POWER & LIGHT POLES TO HAVE A 1m X 1m ISOLATION ZONE REGARDLESS OF LOCATION.
- 38. ALL INTER-ALLOTMENT PIPELINES TO HAVING RODDING EYES IMMEDIATELY DOWNSTREAM OF ALL SLOPE JUNCTIONS.
- 39. CONCRETE PATHS. DRIVEWAYS. & BATTLE-AXE HANDLES TO BE BONDED PENDING COMPLETION OF SERVICES IN ACCORDANCE WITH COUNCIL REQUIREMENTS AND AS DIRECTED BY THE PRINCIPAL
- 40. ALL MAJOR & NON-STANDARD STRUCTURES TO HAVE ENGINEERING CERTIFICATION.
- 41. HIGH EROSION AREAS, INCLUDING BATTERS TO BE STABILISED WITHIN 7 DAYS OF COMPLETION OF WORKS AND EARLIER IF DIRECTED BY THE SUPERINTENDENT.
- 42. ALL STABILISED WORKS ARE TO BE MAINTAINED UNTIL EXPIRY OF MAINTENANCE PERIOD.
- 43. ALL STRABILISED WORKS ARE TO BE MAINTAINED UNTIL EXPIRY OF MAINTENANCE PERIOD. OVERFLOW PATHS TO BE FORMED AT THE TIME OF CONSTRUCTION TO SUIT DESIGN ARI
- 44. VARIATIONS NEED TO BE APPROVED PRIOR TO COMMENCEMENT OF WORK. IF IN DOUBT, CONTACT ACOR CONSULTANTS

#### EARTHWORKS NOTES

- EARTHWORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S AND RELEVANT AUSTRALIAN STANDARD AND GEOTECHNICAL ENGINEER. UNSOUND MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS AND TESTED PRIOR TO FILLING. THE CONTRACTOR IS TO PROVIDE PLANS OF TEST LOCATIONS AND TEST CERTIFICATES AS PER THE SPECIFICATION WHERE REQUIRED. THE CONTRACTOR MUST ENSURE COUNCIL APPROVAL OF MATERIALS, PRIOR TO DELIVERY TO SITE.
- 2. TOPSOIL FROM SITE FILLING AND REGRADING AREAS TO BE STRIPPED, STOCKPILED AND RESPREAD AS SHOWN ON PLAN. EXCESS MATERIAL TO BE CARTED OFFSITE TO APPROVED LOCATION. ALL SITE FILLING TO BE COMPACTED IN ACCORDANCE WITH AS3798 TO A MIN. OF 98% SMDD AT ±2% OF O.M.C. A GEOTECHNICAL CERTIFICATE FROM A N.A.T.A REGISTERED LABORATORY IS TO BE SUPPLIED BY CONTRACTOR.
- 3. WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS ONE IN FOUR (1:4) BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE PLACED FILL MATERIAL AS REQUIRED BY THE DEVELOPER'S GEOTECHNICAL ENGINEER TO STANDARD PRACTICE.
- 4. ALL BATTERS ARE TO SCARIFIED TO ASSIST WITH ADHESION OF TOP SOIL TO BATTER FACE.
- PROVIDE MIN. 50mm 75mm TOPSOIL WITH COUCH GRASS TURF ON ALL FOOTPATHS. ALL BARE AREAS OTHER THAN FOOTPATHS TO BE SOWN WITH SEED, FERTILISED AND HAY MULCHED TO COUNCIL'S SPECIFICATION. GRASS / TURF TO BE MAINTAINED BY CONTRACTOR AT ALL TIMES INCLUDING PERIODS OF INSUFFICIENT RAIN.
- 6. THE CONTROL TESTING OF EARTHWORKS SHALL BE IN ACCORDANCE WITH THE GUIDELINES IN AUSTRALIAN STANDARD 3798-1990. WHERE IT IS PROPOSED TO USED TEST METHOD AS1289 EB.1 OR AS1289 EB2 TO DETERMINE THE FIELD DENSITY, A SAND REPLACEMENT METHOD SHALL BE USED TO CONFIRM THE RESULTS AS DIRECTED BY COUNCIL.
- THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF COUNCIL AND APPROVED PLANS.
- 8. A 1.2 METER WIDE, CONTINUOUS STRIP OF COUCH GRASS SHALL BE PLACED BEHIND THE BACK OF ALL KERBS AND PERIMETER OF ALL INLET PITS IMMEDIATELY AFTER THE COMPLETION OF THE FOOTPATH GRADING AND CONSTRUCTION OF PITS RESPECTIVELY. MAINTAINED AND REPLACED AS REQUIRED DURING THE MAINTENANCE PERIOD. TURFING / LANDSCAPE GRASS SHALL ALSO BE PLACED TO THE FULL WIDTH OF ROAD SWALE DRAINS UPON COMPLETION.
- 9. SOIL AND SEDIMENT PROTECTION TO BE PROVIDED AND THOROUGHLY MAINTAINED AROUND DRAINAGE SYSTEM FOR THE DURATION OF WORKS. DIVERSION OF WATER AND THE PROTECTION OF WORKS IS THE CONTRACTORS RESPONSIBILITY.
- 10. LOTS REQUIRING FILL SHALL BE CONSTRUCTED TO LEVEL 1 SUPERVISION WITH TESTING AND DOCUMENTATION SUITABLE TO DETERMINE FUTURE LOT CLASSIFICATION.
- 11. CONTROLLED EARTHWORKS SHALL BE CERTIFIED BY A N.A.T.A REGISTERED LABORATORIY. ALL TEST CERTIFICATION AND PLANS LOCATION TO BE SUBMITTED TO THE PRINCIPAL AND SHALL BE TO COUNCILS SATISFACTION

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#### SITEWORKS 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 ABUT 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.
- 10. 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.
- 11. PROVIDE 12mm WIDE EXPANDING CORK JOINTS BETWEEN CONCRETE PAVEMENTS AND ALL BUILDINGS, WALLS, FOOTINGS, COLUMNS, KERBS, DISH DRAINS, GRATED DRAINS, BOLLARD FOOTINGS ETC
- 12. CONTRACTOR TO OBTAIN ALL AUTHORITY APPROVALS.
- 13. ALL BATTERS TO BE GRASSED LINED WITH MINIMUM 100 TOPSOIL AND APPROVED COUCH LAID AS TURF.
- 14. MAKE SMOOTH TRANSITION TO EXISTING SERVICES AND MAKE GOOD.
- 15. 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.
- 16. THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- 17. TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MIN 50mm IN BITUMINOUS PAVING.
- 18. 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.

#### STORMWATER NOTES

- MINIMUM GRADE TO STORMWATER LINES TO BE 1%. (U.N.O.)
- CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
- ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
- PRECAST PITS SHALL NOT BE USED UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE SUPERINTENDENT.
- WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN. 50MM CONCRETE BED (OR 75MM THICK BED OF 12MM BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR ON THE ROCK. IN OTHER THAN ROCK, PIPES SHALL BE LAID ON A 75MM THICK SAND BED. IN ALL CASES BACKFILL THE TRENCH WITH SAND TO 200MM ABOVE THE PIPE. WHERE THE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH WITH SAND OR APPROVED GRANULAR BACKFILL COMPACTED IN 150MM LAYERS TO 98% STANDARD MAX. DRY DENSITY.
- BEDDING SHALL BE (U.N.O.) TYPE H1, IN ACCORDANCE WITH CURRENT RELEVANT AUSTRALIAN STANDARDS.
- WHERE SUBSOIL DRAINAGE LINES PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED UPVC SEWER GRADE PIPE SHALL BE USED.
- WHERE PVC PIPES ARE WITHIN THE STRUCTURAL ZONE OF INFLUENCE FROM FOOTINGS / FOUNDATIONS, PIPES TO BE CONCRETE ENCASED WITH MIN 50mm THICK 25MPa CONCRETE.

#### COMPACTION NOTES

- STRIP TOPSOIL TO EXPOSE NATURALLY OCCURRING MATERIAL AND STOCKPILE C FOR SELECTIVE RE-USE OR DISPOSE OFF-SITE AS DIRECTED BY THE SUPERINTEN
- WHERE FILLING IS REQUIRED TO ACHIEVE DESIGN SUBGRADE PROOF ROLL EXPOS NATURAL SURFACE WITH A MINIMUM OF TEN PASSES OF A VIBRATING ROLLER (MI STATIC WEIGHT OF 10 TONNES) IN THE PRESENCE OF THE SUPERINTENDENT. REF 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.
- 4. ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDE SHALL COMPLY WITH THE FOLLOWING : a. FREE FROM ORGANIC, PERISHABLE AND CONTAMINATED MATTER
  - b. MAXIMUM PARTICLE SIZE 75MM c. PLASTICITY INDEX BETWEEN 2% AND 15%
- ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 200MM THICK LAYERS AND COM AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE A DRY DENSITY DETER ACCORDANCE WITH AS 1289 E3.1 OF NOT LESS THAN THE FOLLOWING STANDARD 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 CARI	PARKS 98%
LANDSCAPED AREAS	90%

- THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATION SO THAT TH AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLER MARKS SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYIN MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING TH REQUIREMENTS SHALL BE RECTIFIED BY THE CONTRACTOR AT THEIR COST.
- TESTING OF THE SUBGRADE SHALL BE CARRIED OUT BY AN APPROVED NATA REG LABORATORY AT THE CONTRACTORS EXPENSE.

# DRAWING UNDER REVISION (NOT FOR CONSTRUCTION

PATHWAYS PROPERTY

**MORRISON DESIGN** PARTNERSHIP ARCHITECTS

302/69 CHRISSTIE STREET

ST LEONARDS, NSW, 2065

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St Leonards NSW 2065 DEVELOPMENT T +61 2 9438 5098  $\bigcirc$ 4 -18 NORTHWOOD ROAD

	CIVIL LEGEND PROPOSED
DN SITE DENT.	
SED NIMUM ER TO	RW RETAINING WALL
	STORMWATER DRAINAGE HEADWALL
INT AND	STORMWATER DRAINAGE STRUCTURE WITH NUMBER
	© © © © © © © © © © © © © © © © © © ©
/PACTED MINED IN MINIMUM	OR.L 48.00DESIGN LEVEL
E WORKING SURFACE AND NG HESE	GPTGROSS POLLUTANT TRAP
ISTERED	SSEWER MANHOLE
	PROPOSED GRATED TRENCH DRAIN



IMPORTANT: THE CONTRACTOR IS TO MAINTAIN A CURRENT SET OF "DIAL BEFORE YOU DIG" DRAWINGS ON SITE AT ALL TIMES.

274 & 274A LONGUEVILLE ROAD

NOTES, LEGENDS, DETAILS

Drawn	Date	Scale	A1	Q.A. Check	Date
DV	AUG 20	NTS			
Designed	Project No.			Dwg. No.	Issue
DV	NSV	<u>V200</u>	613	DAC1.02	С







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D	ISSUE FOR DA	22.02.21	AL	TF	North	]PATHWAYS PRC
С	ISSUE FOR DA	02.02.21	IK	TF		GROUP
В	ISSUE FOR DA	21.01.21	IK	TF	$1 (\mathbb{N})$	
Α	ISSUE FOR DA	20.01.21	IK	TF		40 CHANDOS STREET
Issue	Description	Date	Drawn	Approved		ST LEONARDS, NSW, 2065
-1	0 1cm at full size		·	20cm		PHONE : 1800 825 586

302/69 CHRISSTIE STREET ST LEONARDS, NSW, 2065 PHONE : 9966 5566

AC OR

T +61 2 9438 5098 CONSULTANTS ENGINEERS | MANAGERS | INFRASTRUCTURE PLANNERS | DEVELOPMENT CONSULTANTS | 4 -18 NORTHWOOD ROAD LANE COVE, NSW, 2066 4 -18 NORTHWOOD ROAD, 274 & 274A LONGUEVILLE ROAD

Drawn	Date	Scale	A1	Q.A. Check	Date
IK	JAN 2021	1:200			
Designed	Project No.			Dwg. No.	Issue
IK	NSV	<u>v2006</u>	513	DAC2.03	D



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F	ISSUE FOR DA	21.01.21	IK	TF	
E	ISSUE FOR DA	20.01.21	IK	TF	
D	ISSUE FOR DA	30.09.20	KBM	TF	] (]) >
Issue	Description	Date	Drawn	Approved	U U
1 0	10cm		_	20cm	

#### OSD SIZING CALCULATION

LGA - LANE COVE COUNCIL

TOTAL SITE AREA =  $5003m^2$ 

OSD VOLUME BELOW GROUND: 4492 x 0.025 = 112.3m<sup>3</sup>

POST SITE DISCHARGE: 178 L/S (CALCULATED FROM THE 100 YR ARI STORM EVENT IN DRAINS)



This draw	ng has been assigned an electronic code that signifies the drawing has been checked and approved by:				
E	ISSUE FOR DA	22.02.21	AL	TF	North
D	ISSUE FOR DA	20.01.21	IK	TF	
С	ISSUE FOR DA	12.08.20	KBM	TF	
В	ISSUE FOR DA	10.08.20	KBM	TF	
Issue	Description	Date	Drawn	Approved	
·1 _0	1cm at full size			20cm	

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AC

OR

MORRISON DESIGN

PHONE : 9966 5566

PARTNERSHIP ARCHITECTS

PLAN JUNCTION PIT PIT TYPE 'A' TYPICAL SCALE 1:20	
COVER OR GRATE AND FRAME AS SPECIFIED REFER PIT SCHEDULE MORTAR BEDDING RECESS TO SUIT COVER OR FRAME PIT WALL REINFORCED AS SPECIFIED ALL "C" PIT EDGE SCALE 1:10	DETAIL "D"
JNDER REV E AGED CARE NT NAD, LLE ROAD 6	Drawing Title       NOT FOR CONSTRUCTION         Drawing Title       OSD SECTION AND DETAILS         Drawn       Date       Scale       A1       Q.A. Check       Date         KBM       JAN 2021       AS SHOWN       Dwg. No.       Issue         Designed       Project No.       NSVV200613       Dwg. No.       Issue

MINIMUM INTERNAL PIT DIMENSIONS						
'D'	'X'	'Y'				
D ≼ 600	450	450*				
D ≼ 900	600	600*				
D ≼ 1200	600	900				
D > 1200	900	900				
NOTE: PITS DENOTED * SHALL BE USED ONLY WHERE SPECIFIED IN						

DRAINAGE SCHEDULE OR ON PLAN.

~	COVER (WITH SUITABLE LIFTING HOLES) OR GRATE & FRAME AS SPECIFIED.
$\langle$	PIT IN CONCRETE PAVEMENT REFER DETAIL 'B' PIT IN FLEXIBLE PAVEMENT REFER DETAIL 'C' PIT IN LANDSCAPE AREAS REFER DETAIL 'D'



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A ISSUE FOR DA Issue Description	Date     Drawn     Approved		40 CHANDOS STREET ST LEONARDS, NSW, 2065 PHONE : 1800 825 586	302/69 CHRISSTIE STREET ST LEONARDS, NSW, 2065 PHONE : 9966 5566		I GINEERS   MANAGERS   INFRASTRUCTURE PLANNERS   DEVELOPMENT CONSULTANTS 4 - 18 NORTHWO( LANE COVE, NS)	)OD RC IGUEVII 3W, 206

## UNDER REVISION NOT FOR CONSTRUCTION

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Drawing Title STORMWATER LONGITUDINAL SECTION

Drawn	Date	Scale	A1	Q.A. Check	Date
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Designed	Project No.			Dwg. No.	Issue
IK	NSV	<u>v2006</u>	DAC5.01	В	



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F	ISSUE FOR DA	21.01.20	IK	TF	North	
E	ISSUE FOR DA	20.01.20	IK	TF		
D	ISSUE FOR DA	28.08.20	KBM	TF		
С	ISSUE FOR DA	12.08.20	KBM	TF		
Issue	Description	Date	Drawn	Approved		
-1 0	1 cm at full size			20cm		ĺ



### **EROSION AND SEDIMENT CONTROL NOTES**

#### **GENERAL INSTRUCTIONS**

- THIS SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH OTHER ENGINEERING PLANS RELATING TO THIS DEVELOPMENT.
- CONTRACTORS WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE GUIDELINES OF "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION", DEPT OF HOUSING, 1998 (BLUE BOOK).
- ALL SUBCONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN REDUCING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.

#### LAND DISTURBANCE INSTRUCTIONS

- DISTURBANCE TO BE NO FURTHER THAN 5 (PREFERABLY 2) METRES FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON APPROVED PLANS. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
- ACCESS AREAS ARE TO BE LIMITED TO A MAXIMUM WIDTH OF 10 METRES THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON-SITE. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE BOUNDARIES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
- ENTRY TO LANDS NOT REQUIRED FOR CONSTRUCTION OR ACCESS IS PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT GROWTH.
- WORKS ARE TO PROCEED IN THE FOLLOWING SEQUENCE:
- a. INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN.
- b. CONSTRUCT THE STABILISED SITE ACCESS. c. CONSTRUCT DIVERSION DRAINS AS REQUIRED.
- d. INSTALL MESH AND GRAVEL INLETS FOR ANY ADJACENT KERB INLETS.
- e. INSTALL GEOTEXTILE INLET FILTERS AROUND ANY ON-SITE DROP INLET PITS.
- CLEAR SITE AND STRIP AND STOCKPILE TOPSOIL IN LOCATIONS SHOWN ON THE PLAN. UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS ENSURING THAT ROOF AND/OR PAVED AREA STORMWATER SYSTEMS ARE CONNECTED TO PERMANENT DRAINAGE AS SOON AS PRACTICABLE.
- h. GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION
- (LANDSCAPING) WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER THE PERMANENT LANDSCAPING HAS BEEN COMPLETED.
- ENSURE THAT SLOPE LENGTHS DO NOT EXCEED 80 METRES WHERE PRACTICABLE. SLOPE LENGTHS ARE DETERMINED BY SILTATION FENCING AND CATCH DRAIN SPACING. 6. ON COMPLETION OF MAJOR WORKS LEAVE DISTURBED LANDS WITH A SCARIFIED SURFACE TO ENCOURAGE WATER INFILTRATION AND ASSIST WITH KEYING TOPSOIL LATER.
- CONTRACTOR TO MANAGE THE ALIGNMENT OF CATCH DRAINS ON SITE AND TO ENSURE THAT CATCH DRAINS INTERCEPT THE SITE SURFACE RUNOFF AND DIRECT THE RUNOFF TOWARDS THE SEDIMENTATION BASINS.

#### SITE INSPECTION AND MAINTENANCE INSTRUCTIONS

- THE SITE SUPERINTENDENT WILL INSPECT THE SITE AT LEAST WEEKLY AND AT THE CONCLUSION OF EVERY STORM EVENT TO:
- a. ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY
- REPAIRS
- REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5 METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS AND PAVED AREAS.
- REMOVE TRAPPED SEDIMENT WHENEVER THE DESIGN CAPACITY OF THA STRUCTURE HAS BEEN EXCEEDED.
- d. ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION
- HAZARD AND TO INITIATE UPGRADING OR REPAIR AS NECESSARY. CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS. MAKE ONGOING CHANGES TO THE PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECTED TO CHANGES IN CONDITIONS ON THE WORK-SITE OR ELSEWHERE IN THE CATCHMENT.
- MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.
- 2. THE SITE SUPERINTENDENT WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL, ENTRIES WILL INCLUDE:
- a. THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS.
- b. THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS.
- c. THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE. d. THE NEED FOR DUST PREVENTION STRATEGIES.
- e. ANY REMEDIAL WORKS TO BE UNDERTAKEN. THE LOGBOOK WILL BE KEPT ON-SITE AND MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF THE WORKS.

#### **EROSION AND SEDIMENT CONTROL NOTES**

#### SEDIMENT CONTROL INSTRUCTIONS

- SEDIMENT FENCES WILL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AT THE DISCRETION OF THE SITE SUPERINTENDENT TO CONTAIN SOIL AS NEAR AS POSSIBLE TO THEIR SOURCE.
- SEDIMENT FENCES WILL NOT HAVE CATCHMENT AREAS EXCEEDING 900 SQUARE METRES AND HAVE A STORAGE DEPTH OF AT LEAST 0.6 METRES.
- SEDIMENT REMOVED FROM ANY TRAPPING DEVICES WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS CANNOT OCCUR.
- 4. STOCKPILES ARE NOT TO BE LOCATED WITHIN 5 METRES OF HAZARD AREAS INCLUDING AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS AND DRIVEWAYS.
- WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR WATER HAS BEEN TREATED BY AN APPROVED DEVICE. 6. TEMPORARY SEDIMENT TRAPS WILL REMAIN IN PLACE UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
- ACCESS TO SITES SHOULD BE STABILISED TO REDUCE THE LIKELIHOOD OF VEHICLES TRACKING SOIL MATERIALS ONTO PUBLIC ROADS AND ENSURE ALL-WEATHER ENTRY/EXIT.

#### SOIL EROSION CONTROL INSTRUCTIONS

- EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW A GRADIENT AS PRACTICABLE BUT NO STEEPER, UNLESS OTHERWISE NOTED, THAN:
- a. 2(H):1(V) WHERE SLOPE LENGTH LESS THAN 12 METRES
- b. 2.5(H):1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 16 METRES.
- c. 3(H):1(V) WHERE SLOPE LENGTH BETWEEN 16 AND 20 METRES.
- d. 4(H):1(V) WHERE SLOPE LENGTH GREATER THAN 20 METRES.
- 2. ALL WATERWAYS, DRAINS, SPILLWAYS AND THEIR OUTLETS WILL BE CONSTRUCTED TO BE STABLE IN AT LEAST THE 1:20 YEAR ARI, TIME OF CONCENTRATION STORM EVENT.
- WATERWAYS AND OTHER AREAS SUBJECT TO CONCENTRATED FLOWS AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUNDCOVER C-FACTOR OF 0.05 (70% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION, FLOW VELOCITIES ARE TO BE LIMITED TO THOSE SHOWN IN TABLE 5-1 OF "MANAGING URBAN STORMWATER -SOILS AND CONSTRUCTION", DEPT OF HOUSING 1998 (BLUE BOOK), FOOT AND VEHICULAR TRAFFIC WILL BE PROHIBITED IN THESE AREAS.
- STOCKPILES AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.1 (60% GROUND-COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION.
- 5. ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.15 (50% GROUND COVER) WITHIN 20 WORKING DAYS FROM INACTIVITY EVEN THOUGH WORKS MAY CONTINUE LATER.
- 6. FOR AREAS OF SHEET FLOW USE THE FOLLOWING GROUND COVER PLANT SPECIES FOR TEMPORARY COVER: JAPANESE MILLET 20 KG/HA AND OATS 20 KG/HA.
- PERMANENT REHABILITATION OF LANDS AFTER CONSTRUCTION WILL ACHIEVE A GROUND-COVER C-FACTOR OF LESS THAN 0.1 AND LESS THAN 0.05 WITHIN 60 DAYS. NEWLY PLANTED LANDS WILL BE WATERED REGULARLY UNTIL AN EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOROUSLY. FOLLOW-UP SEED AND FERTILISER WILL BE APPLIED AS NECESSARY.
- RE-VEGETATION SHOULD BE AIMED AT RE-ESTABLISHING NATURAL SPECIES. NATURAL SURFACE SOILS SHOULD BE REPLACED AND NON-PERSISTANT ANNUAL COVER CROPS SHOULD BE USED.

#### WASTE CONTROL INSTRUCTIONS

- ACCEPTABLE BINS WILL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES WILL BE PROVIDED AT LEAST WEEKLY. DISPOSAL OF WASTE WILL BE IN A MANNER APPROVED BT THE SITE SUPERINTENDENT.
- 2. ALL POSSIBLE POLLUTANT MATERIALS ARE TO BE STORED WELL CLEAR OF ANY POORLY DRAINED AREAS, FLOOD PRONE AREAS, STREAMBANKS, CHANNELS AND STORMWATER DRAINAGE AREAS. STORE SUCH MATERIALS IN A DESIGNATED AREA UNDER COVER WHERE POSSIBLE AND WITHIN CONTAINMENT BUNDS.
- 3. ALL SITE STAFF AND SUB-CONTACTORS ARE TO BE INFORMED OF THEIR OBLIGATION TO USE WASTE CONTROL FACILITIES PROVIDED.
- 4. 4. ANY DE-WATERING ACTIVITIES ARE TO BE CLOSELY MONITORED TO ENSURE THAT WATER IS NOT POLLUTED BY SEDIMENT, TOXIC MATERIALS OR PETROLEUM PRODUCTS.
- PROVIDE DESIGNATED VEHICULAR WASHDOWN AND MAINTENANCE AREAS WHICH ARE TO HAVE CONTAINMENT BUNDS.

### EROSION AND SEDIMENT CONTROL NOTES

#### **IMPORTANT NOTES:**

- THIS DRAWING IS FOR GUIDANCE PURPOSES ONLY THE SOIL AND EROSION CONTROLS ARE INDICATIVE AND REMAIN SUBJECT TO CONSTRUCTION PROGRAMME METHODOLOGY - THE CONTRACTOR SHALL AT ALL TIMES REMAIN RESPONSIBLE FOR COMPLIANCE WITH ALL LAWS AND REGULATIONS PERTAINING TO SAFETY AND PROTECTION OF ENVIRONMENT
- 2. ALL SOIL AND EROSION CONTROLS TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH COUNCIL GUIDELINES AND CONDITIONS AND ENVIRONMENTAL CODES STANDARDS AND REGULATIONS
- CONTRACTOR TO ENSURE THAT SEDIMENT IS NOT ALLOWED TO ENTER ADJACENT LOTS OR TO DOWNSTREAM STORMWATER SYSTEMS.
- ANY DAMAGE. FINES, NOTICES ETC. RELATED TO ANY BREACH OF THESE CONDITIONS BY ANY ACT OR OMISSION OF THE CONTRACTOR OR HIS AGENTS SHALL BE RECTIFIED OR OTHERWISE ADDRESSED SOLELY AT THE CONTRACTOR'S COST INCLUDING ANY RELATED COSTS INCURRED BY THE SUPERINTENDENT OR PRINCIPAL

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С	ISSUED FOR DA	12.08.20	KBM	TF		GROUP
В	ISSUED FOR DA	10.08.20	DV	TF		
А	ISSUED FOR DA	07.08.20	DV	TF		40 CHANDOS STREET
Issue	Description	Date	Drawn	Approved		ST LEONARDS, NSW, 2

## DRAWING UNDER REVISION NOT FOR CONSTRUCTION

St Leonards NSW 2065 DEVELOPMENT

T +61 2 9438 5098  $\bigcirc$ 

4 -18 NORTHWOOD ROAD, 274 & 274A LONGUEVILLE ROAD CONSULTANTS ENGINEERS | MANAGERS | INFRASTRUCTURE PLANNERS | DEVELOPMENT CONSULTANTS | LANE COVE, NSW, 2066

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### GEOTEXTILE FILTER FABRIC DROP **INLET SEDIMENT TRAP**



# TEMPORARY CONSTRUCTION EXIT



ROPERTY

2065

PHONE : 1800 825 586

#### MAINTENANCE

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND / OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.



SEDIMENT EROSION CONTROL PLAN DETAILS

Drawn	Date	Scale	A1	Q.A. Check	Date
DV	AUG 20	NTS		-	-
Designed	Project No.			Dwg. No.	Issue
DV	NSV	<u>V200</u>	513	DAC7.11	С

Note: These "Detailed Calcul in figure 4.6 or where the desi	ation" spreads	heets relate only to h to use the RUSLE to	gh erosion hazard lands as identified size sediment basins The "Standar
Calculation" spreadsheets sh	ould be used o	on low er	
1. Site Data Sheet			
Site Name	e: NSW20061	3	
Site Location	n: 16 NORTH	NOOD ROAD, LANE	COVE, NSW 2066
Precinc	•t• Ν/Δ		
Trecine			
Description of Site	e: Brown site	, development area	greater than 2500 m2, SWMP
-	required.	Soil loss < 150 m3/y	ear hence, sediment basin not
	required.		
Site area		Site	Remarks
	CAT 1		
Total catchment area (ha)	0.5		
Disturbed catchment area (ha)	0.5		
Soil analysis			
% sand (faction 0.02 to 2.00 mm	50		Soil texture should be assessed throu
% silt (fraction 0.002 to 0.02 mm)	10		mechanical dispersion only. Dispers
% clay (fraction finer than 0.002 mm)	40		agents (e.g. Calgon) should not be us
Dispersion percentage	10.0		E.g. enter 10 for dispersion of 10%
% of whole soil dispersible	4.5		See Section 6.3.3(e)
Soil Texture Group	С		See Section 6.3.3(c), (d) and (e)
Rainfall data	-		
Design rainfall depth (days)	5 05		See Sections 6.3.4 (d) and (e)
v_day_v_percentile_rainfall_event	۲۵ ۲۸		See Sections 0.3.4 (I) and (g)
Rainfall intensity 2-year 6-hour storm	13		See IFD chart for the site
RUSLE Factors			
Rainfall erosivity ( <i>R</i> -factor)	3660		Automatic calculation from above data
Soil erodibility (K-factor)	0.019		
Slope length (m)	55		
Slope gradient (%)	3		RUSLE data can be obtained from
Length/gradient ( <i>LS</i> -factor)	0.55		Appendix es A, B and C
Erosion control practice ( <i>P</i> -factor)	1.3		
Ground cover (C-tactor)	1 1		
Calculations			
Soil loss (t/ha/vr)	50		
Soil Loss Class	1		See Section 4.4.2(b)
Soil loss (m <sup>3</sup> /ha/vr)	38		
Sediment basin storage volume. m <sup>3</sup>	3		See Sections 6.3.4(i) and 6.3.5 (e)

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В	ISSUE FOR DA	10.08.20	AA	TF	
А	ISSUE FOR DA	07.08.20	AA	TF	
Issue	Description	Date	Drawn	Approved	
10	10cm			20cm	

Client PATHWAYS PROPERTY GROUP 40 CHANDOS STREET ST LEONARDS, NSW, 2065 PHONE : 1800 825 586

### DRAWING UNDER REVISION NOT FOR CONSTRUCTION Drawing Title

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Project
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DEVELOPMENT CONSULTANTS ENGINEERS | MANAGERS | INFRASTRUCTURE PLANNERS | DEVELOPMENT CONSULTANTS 4 -18 NORTHWOOD ROAD, LANE COVE, NSW, 2066

SEDIMENT BASIN CALCULATIONS

Drawn	Date	Scale	A1	Q.A. Check		Date
AA	AUG 20	NTS		Q.A.	Q.A	. DATE
Designed	Project No.			Dwg. No.		Issue
AA	L NSV	<u>v2006</u>	513	DAC8.01		С