

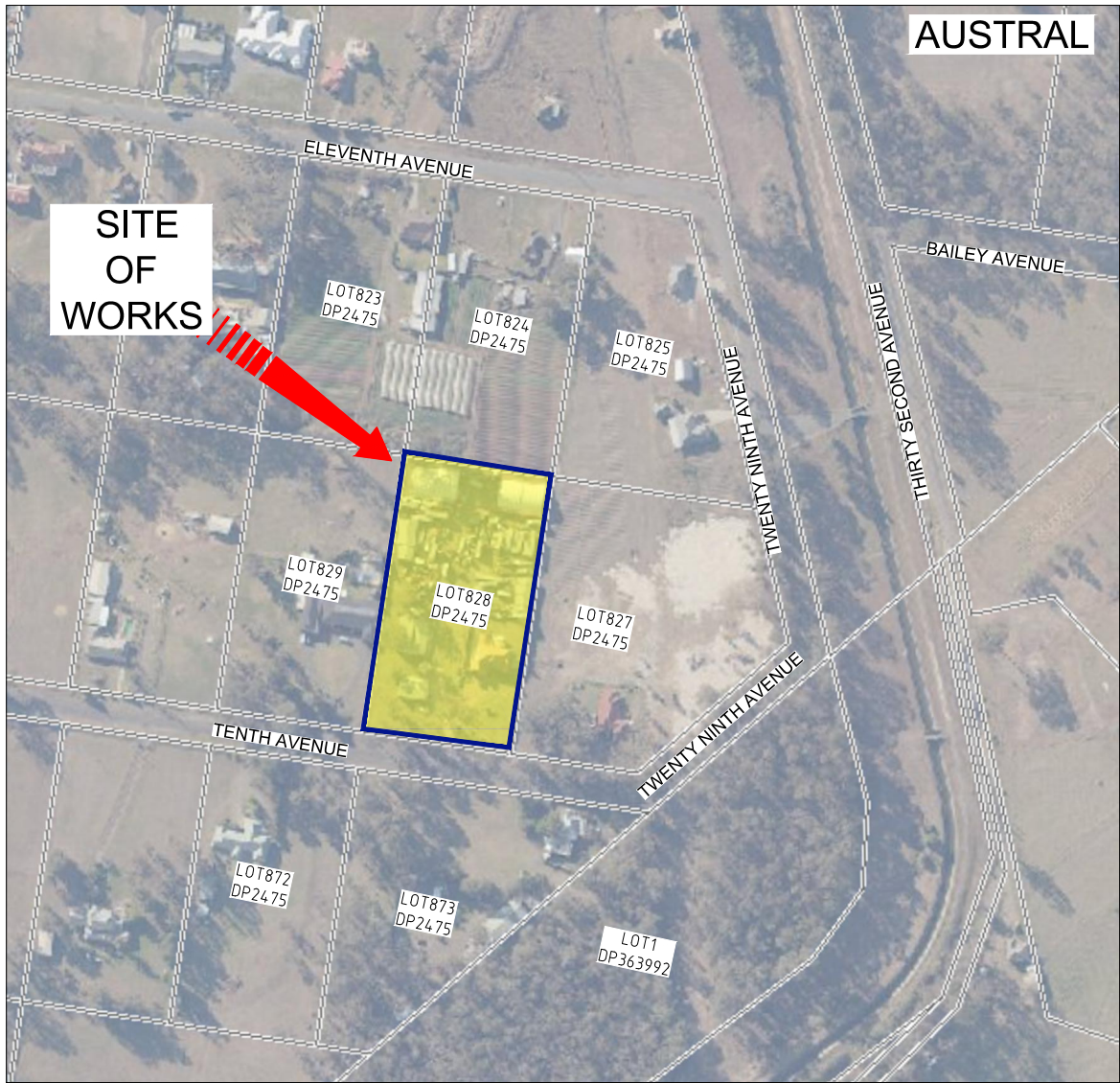
15 TENTH AVENUE AUSTRAL

ISSUED FOR DEVELOPMENT APPLICATION

MARCH 2019

SCHEDULE OF DRAWINGS

6924-DA	000	COVER SHEET, LOCALITY PLAN AND SCHEDULE OF DRAWINGS
6924-DA	001	AERIAL OVERLAY PLAN
6924-DA	005	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
6924-DA	006	EROSION AND SEDIMENT CONTROL PLAN
6924-DA	010	TREE REMOVAL AND STRUCTURES DEMOLITION PLAN
6924-DA	015	GRADING PLAN
6924-DA	020	SITE SECTIONS KEY PLAN
6924-DA	021	SITE SECTIONS SHEET 1 OF 2
6924-DA	022	SITE SECTIONS SHEET 2

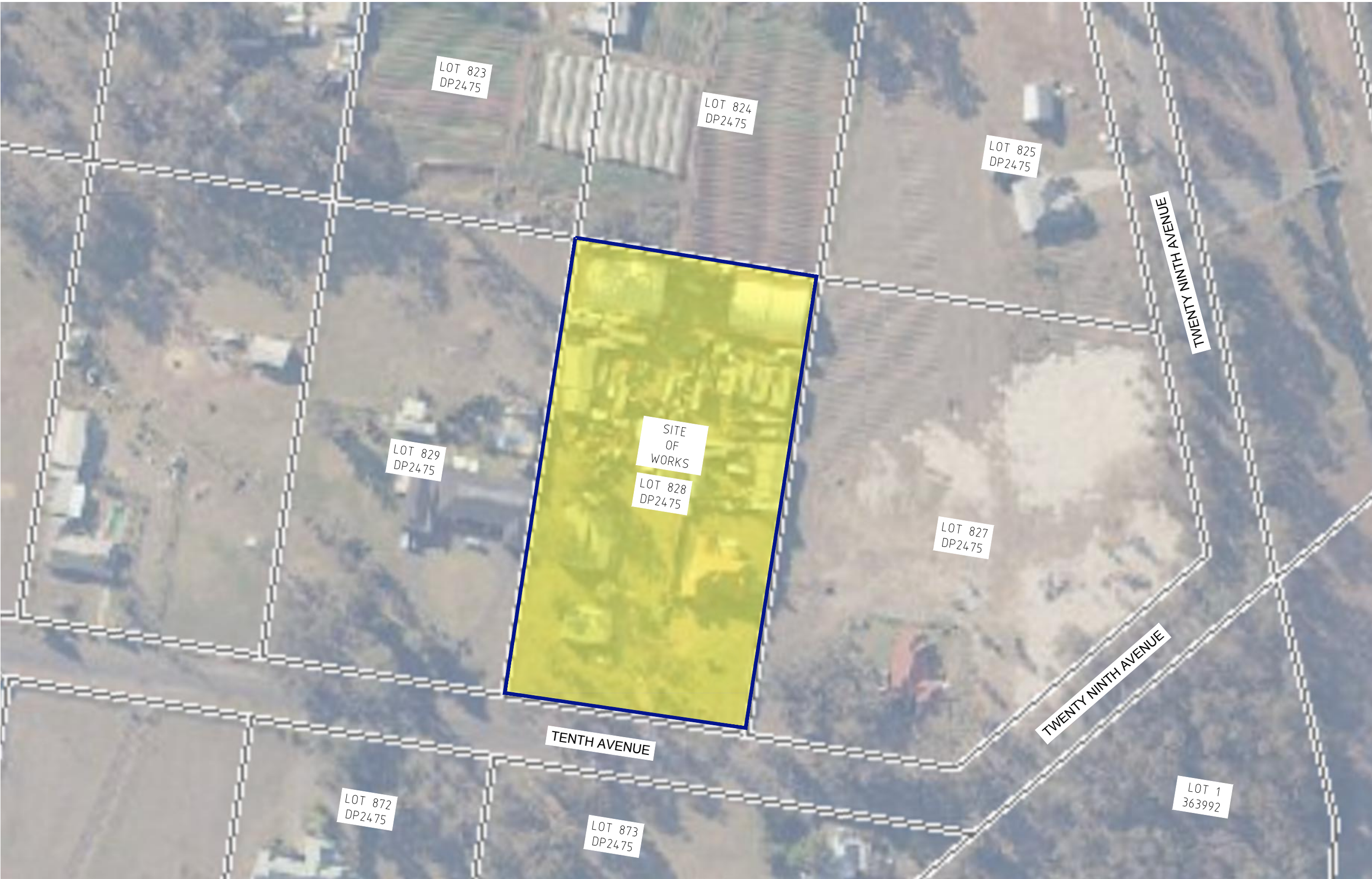


LOCALITY PLAN
NTS

CLIENT:
KUNDA SYDNEY P/L

CONSULTANTS:





NTS

No.	AMENDMENT	APPROVED	DATE	DESIGNED BY	DEVELOPMENT TEAM	CLIENT	PROJECT			DRAWING TITLE		
						KUNDA SYDNEY P/L www.indesco.com.au	15 TENTH AVENUE AUSTRAL			AERIAL OVERLAY PLAN PROJECT No. 6924-DA DRAWING No. 001 AMDT A		
A	ISSUED FOR DA APPROVAL	KN	18.03.2019	EJ								

1. ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED PRIOR TO SITE DISTURBANCE.
2. SELECTIVE CLEARING OF VEGETATION TO BE RESTRICTED TO NOMINATED AREAS WITH CLEARED VEGETATION STORED ALONG THE CONTOUR.
3. TOPSOIL FROM ALL AREAS THAT WILL BE DISTURBED TO BE STRIPPED AND STOCKPILED AT THE NOMINATED SITE.
4. NO MORE THAN 150m OF TRENCH TO BE OPEN AT ANY ONE TIME.
5. CUT AND FILL BATTER GRADIENTS MAXIMUM OF 1:3 (MAXIMUM).
6. ALL TEMPORARY EARTH STRUCTURES, INCLUDING SOIL STOCKPILES AND CUT AND FILL BATTERS TO BE BACKFILLED ROLLED AND/OR SEEDED WITHIN 14 DAYS OF THEIR CONSTRUCTION WITH THE FOLLOWING CROP COVER AND FERTILISER MIXTURE: (SUBJECT TO SOIL TESTING IF REQUIRED)
 - JAPANESE MILLET
 - RYE CORN/OATS
 - STARTER FERTILISER
7. ALL KERB INLETS SUBJECT TO STORMWATER INUNDATION FROM CONSTRUCTION SITE TO BE PROTECTED FROM SEDIMENT FLOW BY MESH AND GRAVEL INLET FILTER.
8. ALL DISTURBED AREAS TO BE STABILISED AND/OR REVEGETATED WITHIN 14 DAYS OF EARTHWORKS COMPLETION USING TURF OR THE FOLLOWING SEED AND FERTILISER MIXTURE:

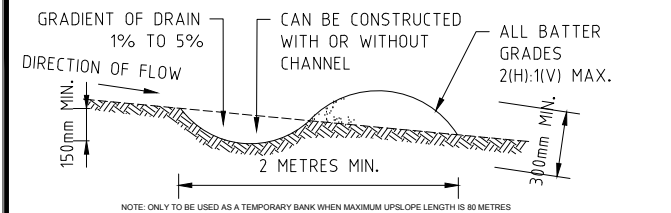
JAPANESE MILLET	SPR/SUM	AUT/WIN
RYE CORN/OATS	16kg/Ha	16kg/Ha
COUCH GRASS	6kg/Ha	16kg/Ha
RHODES GRASS	10kg/Ha	8kg/Ha
PERENNIAL RYE GRASS	10kg/Ha	8kg/Ha
STARTER FERTILISER (AT SOWING)	6kg/Ha	10kg/Ha
MAINTENANCE FERTILISER	300kg/Ha	300kg/Ha
(FOLLOWING SPRING/SUMMER)	100kg/Ha	100kg/Ha

9. SEDIMENT FENCES AND BARRIER FENCES SHALL BE INSTALLED AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN (SECP).
10. CONSTRUCT STABILISED SITE ACCESS FOLLOWING THE SECP OR OTHER SUITABLE TECHNIQUE APPROVED BY THE COUNCIL.
11. ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED AFTER EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE AND ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED SOIL STOCKPILE.
12. ALL SEDIMENT AND EROSION CONTROL MEASURES TO BE IMPLEMENTED AND INSTALLED IN ACCORDANCE WITH "SOIL AND CONSTRUCTION" (BLUE BOOK) VOL. 1 ED. 4TH, MARCH 2004
13. THE SEDIMENT BASIN SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT OR UNTIL SUCH TIME THAT ALL OF THE DISTURBED AREAS ARE HYDROMULCHED
14. WHERE FLOCCULATION OF THE BASIN IS REQUIRED, THE RECOMMENDED INITIAL DOSE IS 30kg OF GYPSUM/100 m3 OF BASIN VOLUME, UNLESS OTHERWISE SPECIFIED. THIS RATE MAY VARY DEPENDING ON THE TESTING OF PREVIOUS WATER SAMPLES AND THE ACHIEVEMENT OF THE REQUIRED WATER QUALITY TARGETS.
15. CONTINUOUS DUST CONTROL MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION TO THE SATISFACTION AND DURATION SPECIFIED BY THE SUPERINTENDENT AND COUNCIL.
16. ALL STORAGE OF SOIL/VEGETATION AND SEDIMENT AND EROSION CONTROL MANAGEMENT DEVICES/MEASURES SHALL BE IMPLEMENTED TO NSW ENVIRONMENT PROTECTION AUTHORITY (EPA) AND DEPARTMENT OF LAND AND WATER REQUIREMENTS. ALL SEDIMENT AND EROSION CONTROL MANAGEMENT MEASURES/DEVICES SHOWN ON THE PLANS SHALL BE IMPLEMENTED PRIOR TO CONSTRUCTION, AND MAINTAINED DURING AND AFTER.

1. SPOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREAS WHERE WATER MAY CONCENTRATE.
2. IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 30 DAYS THEN THEY SHALL BE STABILIZED BY COVERING WITH MULCH OR WITH TEMPORARY VEGETATION.
3. FOLLOWING CONSTRUCTION, TOPSOIL SHALL BE RESPIRED TO A MINIMUM DEPTH OF 150MM ON THE BARE SOIL SURFACES AND REVEGETATE AS SHOWN ABOVE.

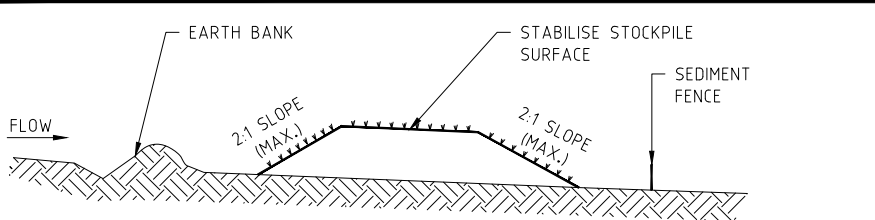
1. FILTER FABRIC (E.G. SLOPOX OR EQUIVALENT) SHALL BE STRETCHED BETWEEN POSTS AT MAX. 3m C/M TO FORM THE SILT FENCE. THE FABRIC SHALL BE BURIED AND BACKFILLED WITH SOIL 150mm DEEP IN AN EXCAVATED TRENCH ALONG THE BASE OF THE FABRIC.
2. STRAW BALES SHALL BE PLACED IN A SINGLE ROW, END-TO-END, AND BOUND WITH WIRE. EACH BALE SHALL BE ANCHORED WITH TWO STEEL STAKES (DRIVEN 450mm IN THE GROUND) AT THE CENTRE LINE OF THE BALE. ALL BALES SHALL BE EMBEDDED 100mm INTO THE SOIL.

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN PROTECTION AGAINST WATER DAMAGE FOR THE DURATION OF THE CONTRACT. INDESCO DOES NOT GUARANTEE THE COMPLETENESS OF THE PLANS TO FULLY REDUCE WATER DAMAGE.
2. COUNCIL APPLICANT REPRESENTATIVES SHALL INSPECT THE SITE PRIOR TO COMMENCING EARTHWORKS, AND AFTER PEGGING/MARKING THE PROPOSED ROAD CENTRELINE. BOTH REPRESENTATIVES SHALL APPROPRIATELY IDENTIFY AND MARK ALL TREES TO BE RETAINED AND/OR CORDONED. NO TREES SHALL BE REMOVED WITHOUT COUNCIL'S APPROVAL.
3. MANAGEMENT DEVICES SHALL BE MAINTAINED/CLEANED REGULARLY AND REMAIN FOR THE DURATION OF THE MAINTENANCE PERIOD. SEDIMENT SHALL BE REMOVED AS PER THE ENGINEER.
4. INDESCO DOES NOT GUARANTEE THE EXACT LOCATION AND EXTENT OF SOIL AND WATER MANAGEMENT DEVICES. ACTUAL EXTENTS AND REQUIREMENTS SHALL BE CONFIRMED ON SITE.
5. THIS PLAN SHALL BE READ IN CONJUNCTION WITH GUIDELINES SET IN 'MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION' (ED. 4) AND THE RELEVANT ROADS AND DRAINAGE PLANS.



1. BUILD WITH GRADIENTS BETWEEN 1 PERCENT AND 5 PERCENT.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V-SHAPED.
5. ENSURE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

SD-5-5



1. PLACE STOCKPILE S MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.

CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.

WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.

ALL STOCKPILES ARE TO BE LOCATED AND PLACED IN ACCORDANCE WITH THE CONTRACTOR'S EROSION AND SEDIMENT CONTROL PLAN.

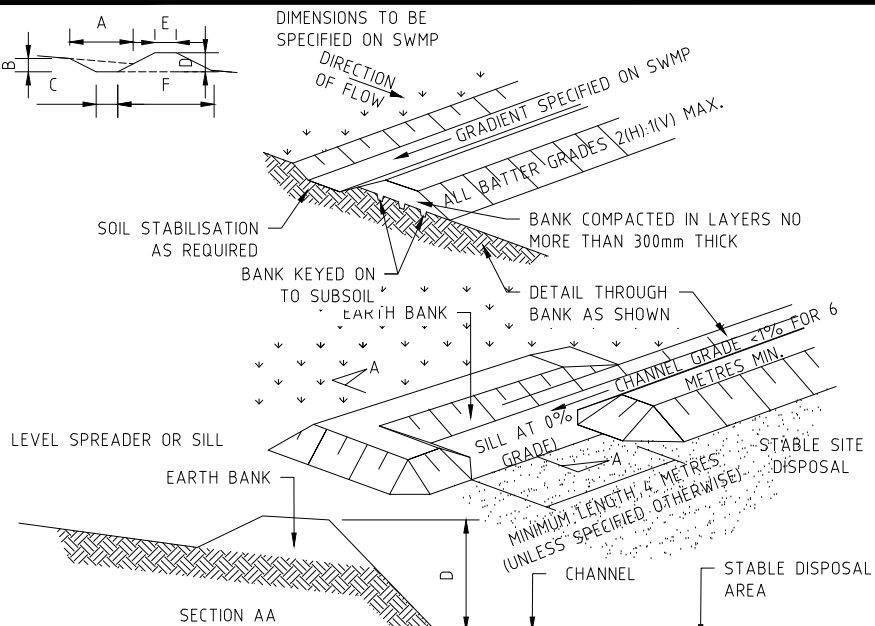
WHERE STOCKPILES ARE TEMPORARY (<14 DAYS) NO STABILISATION IS REQUIRED. REVIEW THE ADEQUACY OF SEDIMENT CONTROLS IF RAINFALL IS PREDICTED.

WHERE STOCKPILES ARE TEMPORARY (<14 DAYS) THE FOLLOWING ADDITIONAL CONTROL ARE REQUIRED:

- MAXIMUM BATTER SLOPE REDUCED TO 1:4
- CONSTRUCT A CONTOUR DRAIN ON THE LOW SIDE OF THE STOCKPILE, AND DISCHARGING THROUGH A STRAW BALE OR 200mm HIGH GRAVEL DAM
- ESTABLISH GRASS COVER TO SURFACE OF STOCKPILE WITHIN 14 DAYS, USING HYDROMULCH WITH A 75:25 MIX OF SEASONAL AND PERMANENT GRASS SEEDS, AND A STRAW MULCH THICKNESS OF NO LESS THAN 5mm.

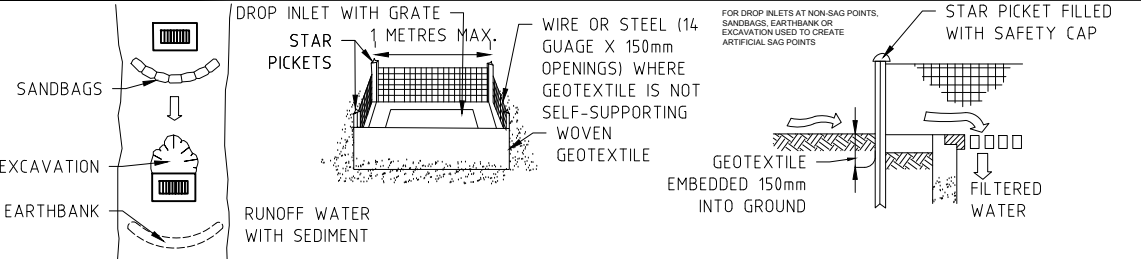
CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWINGS 6-8) 1 TO 2 METRES DOWNSLOPE.

SD 4-1



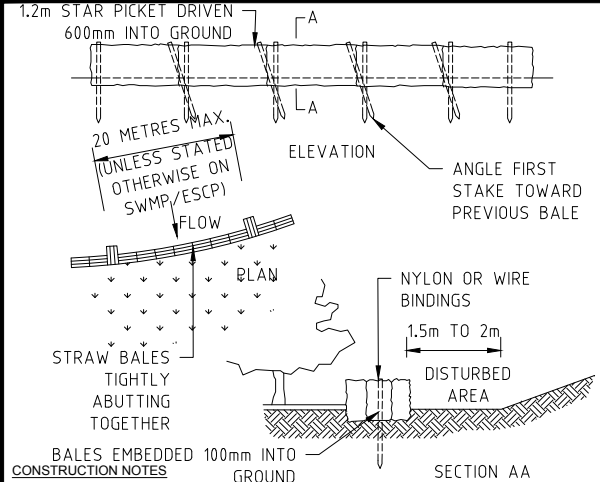
1. CONSTRUCT AT THE GRADIENT SPECIFIED ON THE ESCP OR SWMP, NORMALLY BETWEEN 1% AND 5%.
AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V-SHAPED. AT THE DIMENSIONS SHOW ON THE SWMP.
ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION FOLLOWING TABLE 5.2 IN LANDCOM (2005).
WHERE DISCHARGING TO ERODIBLE LANDS, ENSURE THEY OUTLET THROUGH A PROPERLY CONSTRUCTED LEVEL SPREADER.
CONSTRUCT THE LEVEL SPREADER AT THE GRADIENT SPECIFIED ON THE ESCP OR SWMP, NORMALLY LESS THAN 1% OR LEVEL.
WHERE POSSIBLE, ENSURE THEY DISCHARGE WATERS ONTO EITHER STABILISED OR UNDISTURBED DISPOSAL SITES WITHIN THE SAME SUBCATCHMENT AREA FROM WHICH THE WATER ORIGINATED. APPROVAL MIGHT BE REQUIRED TO DISCHARGE INTO OTHER SUBCATCHMENTS.

SD 5-6



1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EATH BANKS AS SHOWNIN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

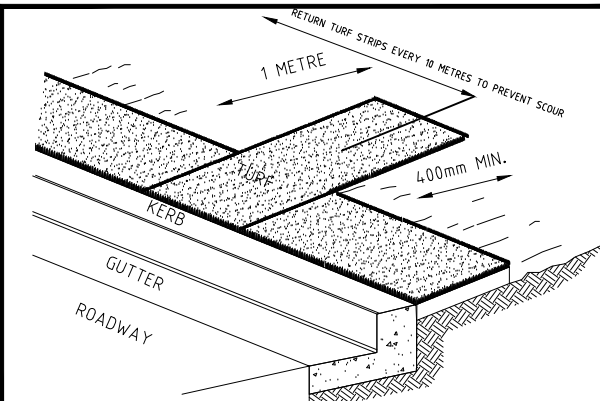
SD-6-12



PARALLEL

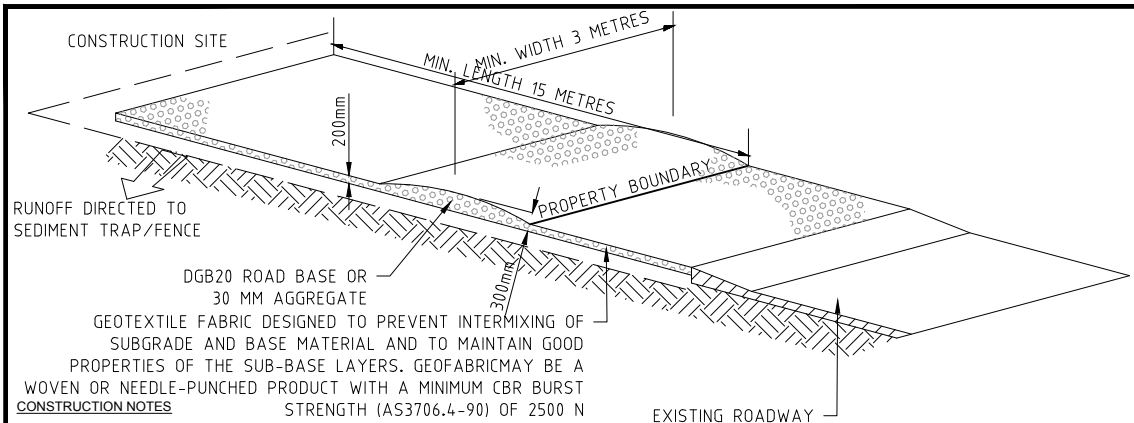
1. 1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE.
2. 2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN THE BALES. STRAWS ARE TO BE PLACED PARALLEL TO GORUND.
3. 3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE.
4. 4. EMBED EACH BALE IN THE GROUND 75mm to 100mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE. DRIVE THEM 600mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS.
5. 5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1 TO 2 METRES DOWNSLOPE FROM THE TOE.
6. 6. ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED - THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.

SD-6-7



1. INSTALL A 400mm MINIMUM WIDE ROLL OF TURF ON THE FOOTPATH NEXT TO THE KERB AND AT THE SAME LEVEL AS THE TOP OF THE KERB.
2. LAY 1.4 METRE LONG TURF STRIPS NORMAL TO THE KERB EVERY 10 METRES.
3. REHABILITATE DISTURBED SOIL BEHIND THE TURF STRIP FOLLOWING THE ESCP/SW/MP.

SD-6-13



1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE
CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3m WIDE.
WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

SD 6-14

No.	AMENDMENT	APPROVED	DATE	SIGNED BY	DEVELOPMENT TEAM
A	ISSUED FOR DA APPROVAL	KN	18.03.2019	EJ	

CLIENT

**KUNDA SYDNEY
P/L**

INDESCO
CANBERRA | SYDNEY | WOLLONGONG
www.indesco.com.au



APPROVED	RP	DATE	3/11/2010
CHECKED	KN	DATE	3/11/2010
DESIGNED BY	KN		
DRAWN BY	EJ		
CAD FILE: S:\6924 15 Tenth Avenue Austral\Acad\Current Drawings\Civil - Early Work BA\6924-005-006.dwg			
SCALE	AS SHOWN	SHEET NO.	

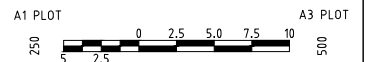
PROJECT

**15 TENTH AVENUE
AUSTRAL**

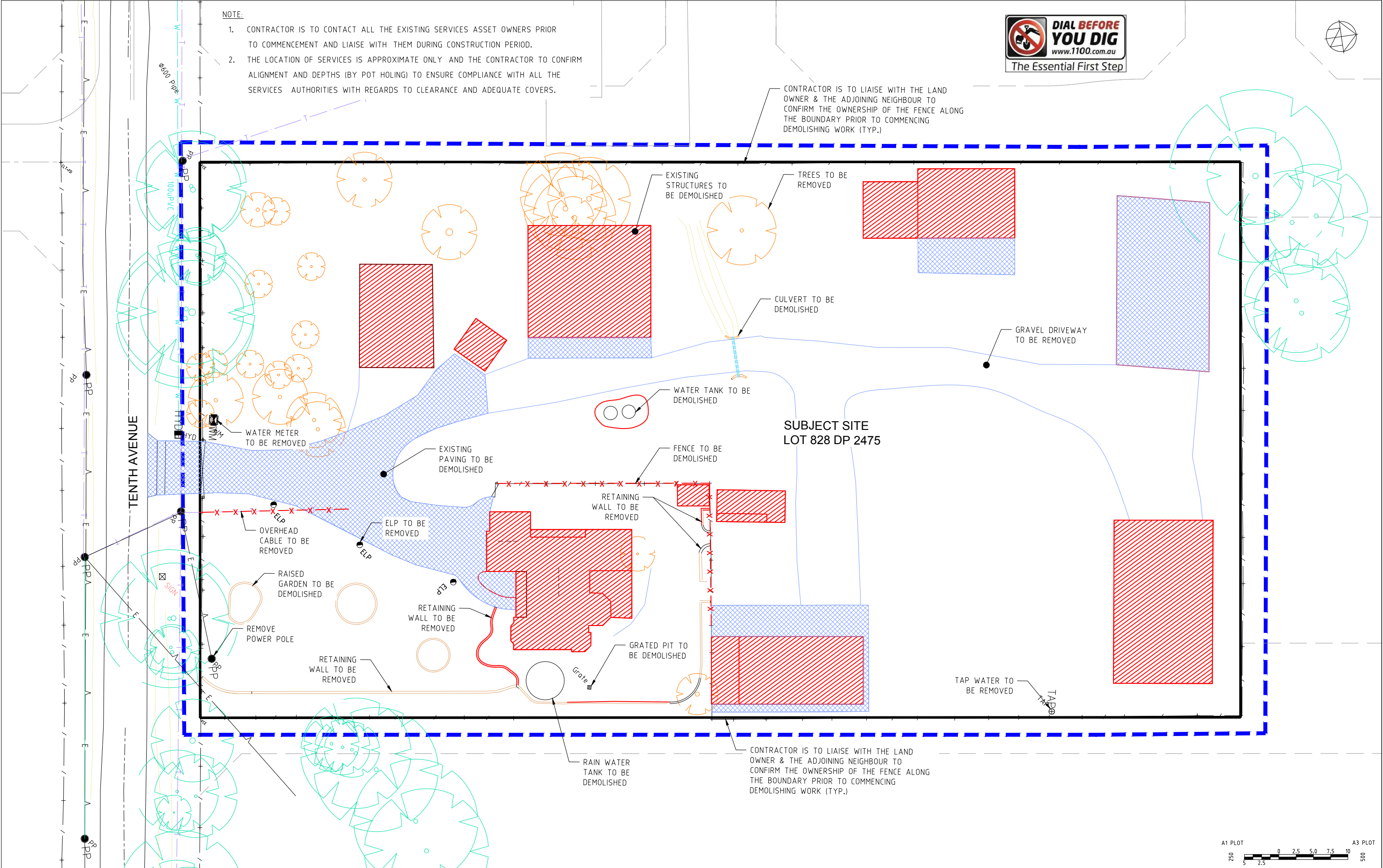
DRAWING TITLE

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

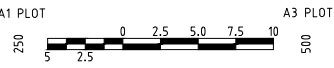
PROJECT No. 6924-DA	DRAWING No. 005	AMDT A
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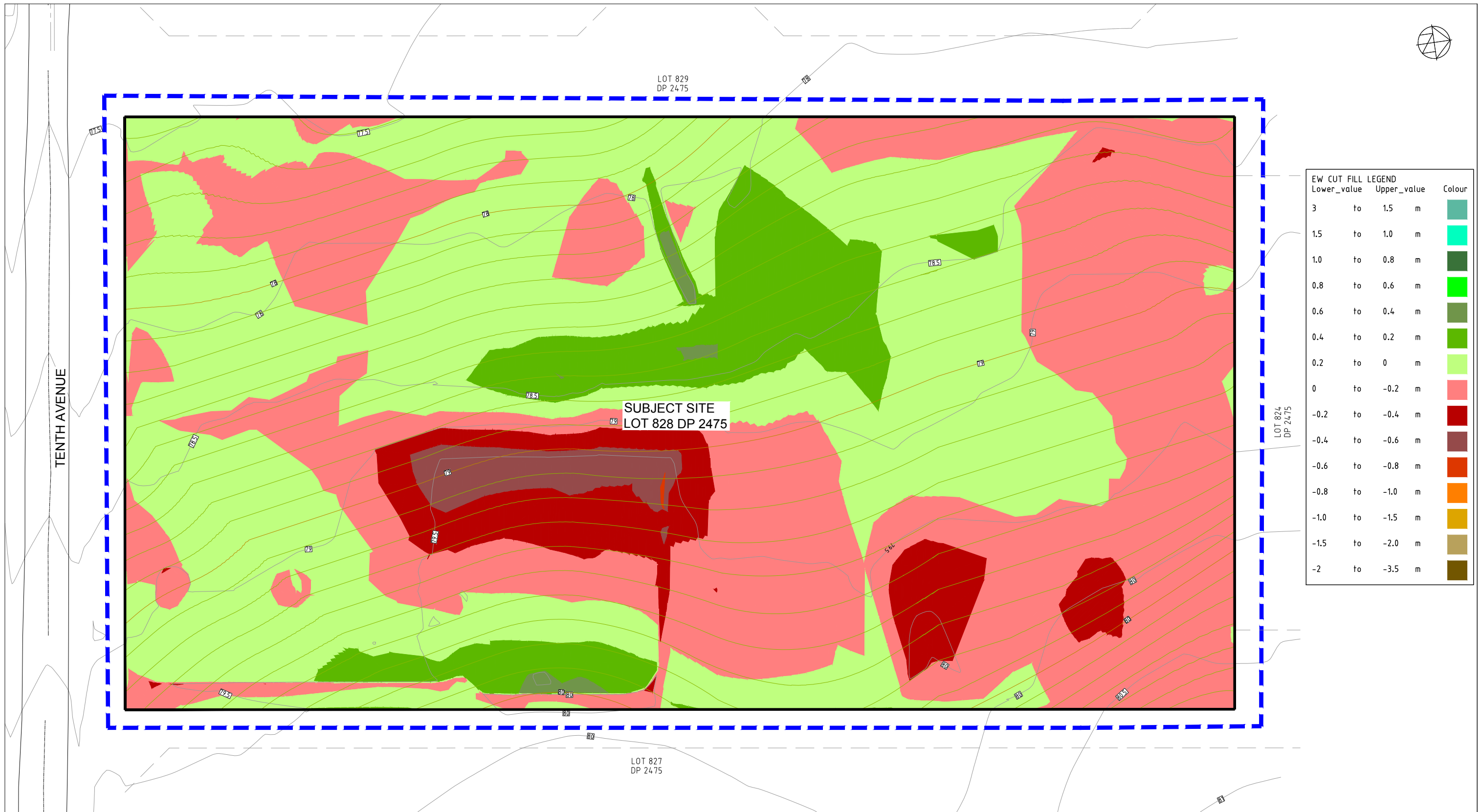
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- NOTE:
1. CONTRACTOR IS TO CONTACT ALL THE EXISTING SERVICES ASSET OWNERS PRIOR TO COMMENCEMENT AND LIAISE WITH THEM DURING CONSTRUCTION PERIOD.
 2. THE LOCATION OF SERVICES IS APPROXIMATE ONLY AND THE CONTRACTOR TO CONFIRM ALIGNMENT AND DEPTHS (BY POT HOLING) TO ENSURE COMPLIANCE WITH ALL THE SERVICES AUTHORITIES WITH REGARDS TO CLEARANCE AND ADEQUATE COVERS.



AMENDMENT					CLIENT	DESIGNER	PROJECT	DRAWING TITLE		
No.	DESCRIPTION	APPROVED	DATE	DESIGNED BY				TREE REMOVAL AND STRUCTURES DEMOLITION PLAN		
1	ISSUED FOR DA APPROVAL	KN	18.03.2019	EJ	KUNDA SYDNEY P/L	INDESCO CANBERRA SYDNEY WOLLONGONG www.indesco.com.au	15 TENTH AVENUE AUSTRAL	PROJECT No. 6924-DA		
								DRAWING No. 010	AMDT A	



1. EARTHWORK VOLUMES HAVE BEEN CALCULATED BY COMPARING THE EXISTING SURFACE AND THE FINISHED DESIGN SURFACE.
2. THE BALANCE ABOVE DOES NOT TAKE INTO ACCOUNT THE EARTHWORK VOLUME GENERATED FROM ROAD BOXING AND ADDITION CUT FOR SERVICES TRENCHING

TOTAL CUT =	-720.767	cu. m
TOTAL FILL =	720.767	cu. m
TOTAL CUT/FILL BALANCE =	000	cu. m

[illegible]

**KUNDA SYDNEY
P/L**

INDESCO
CANBERRA | SYDNEY | WOLLONGONG
www.indesco.com.au



APPROVED	RP	DATE	3/11/2019
CHECKED	KN	DATE	3/11/2019
DESIGNED BY	KN		
DRAWN BY	EJ		
CAD FILE: S:\6924 15 Tenth Avenue Austral\Acad\Current Drawings\Civil - Early Work-BAYCO-01.dwg			
SCALE	AS SHOWN	SHEET NO.	

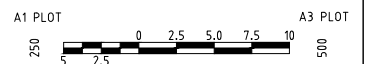
**15 TENTH AVENUE
AUSTRAL**

GRADING PLAN

PROJECT No.
6924-DA

DRAWING No.
015

MDT
A



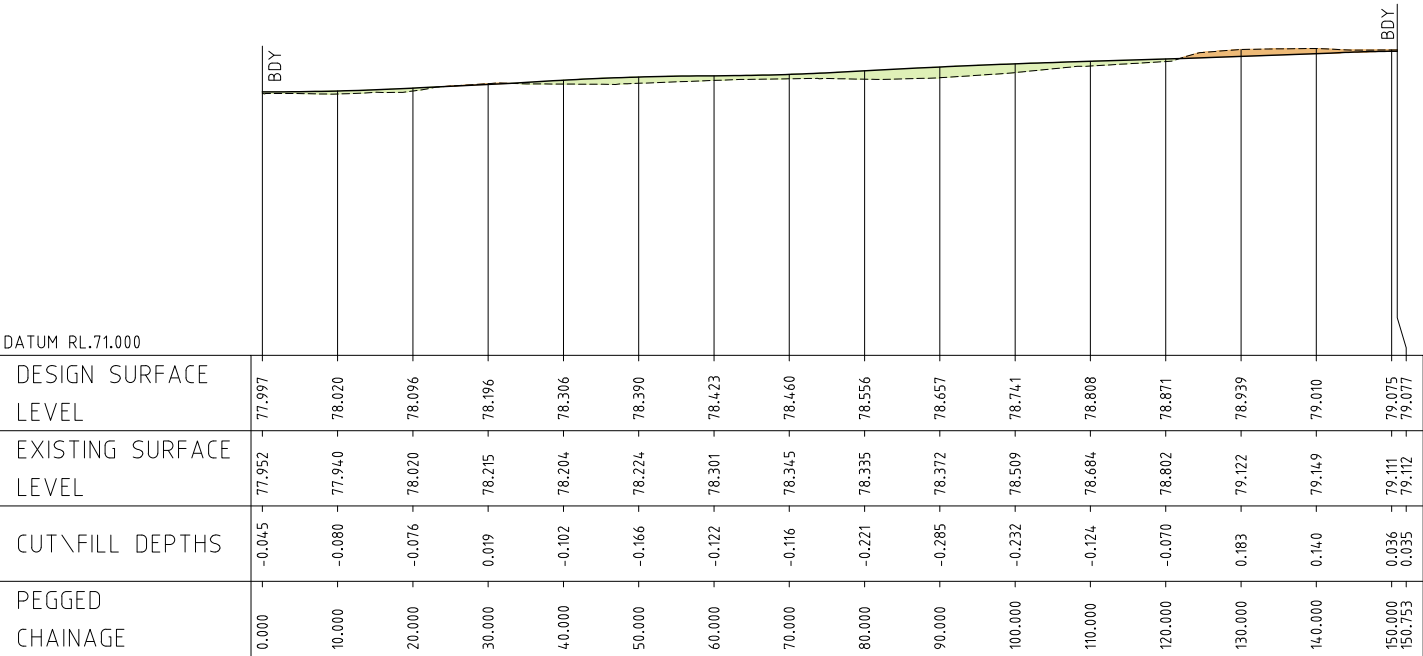
LEGEND

CUT AREA

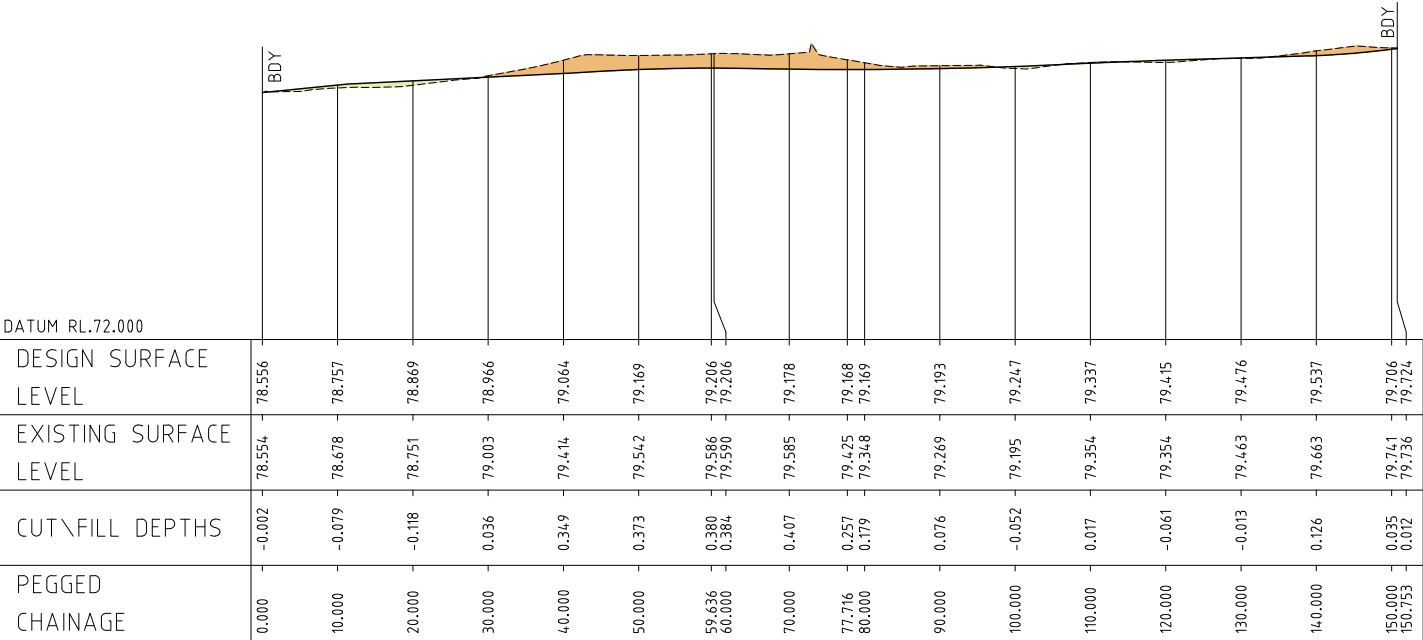
FILL AREA

DESIGN LEVEL

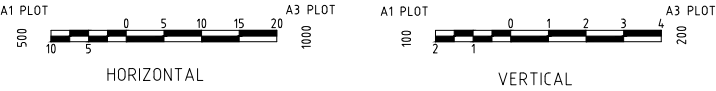
EXISTING LEVEL



D
020

LONGITUDINAL SECTION

E
020

LONGITUDINAL SECTION

No.	AMENDMENT	APPROVED	DATE	DESIGNED BY	DEVELOPMENT TEAM	CLIENT	INDESCO CANBERRA SYDNEY WOLLONGONG www.indesco.com.au CURRENTLY AUSTRALIA		APPROVED RP DATE 3/11/2019 CHECKED KN DATE 3/11/2019 DESIGNED BY KN DRAWN BY EJ CAD FILE S:\6924 15 Tenth Avenue Austral\Acad\Current Drawings\Civil - Early Work DA\6924-020-022.dwg SCALE AS SHOWN SHEET No.		PROJECT		DRAWING TITLE		
						KUNDA SYDNEY P/L		15 TENTH AVENUE AUSTRAL		SITE SECTIONS SHEET 2					
										PROJECT No. 6924-DA		DRAWING No. 022		AMDY A	
A ISSUED FOR DA APPROVAL						KN 18.03.2019 EJ									