

ENGINEERING DRAWINGS FOR WATER REUSE AND DRAINAGE UPGRADE

81 GOW STREET PADSTOW
ISSUED FOR DEVELOPMENT APPLICATION
JUNE 2021



LOCALITY PLAN
NTS

SCHEDULE OF DRAWINGS

7524 – 000	COVER SHEET, LOCALITY PLAN AND SCHEDULE OF DRAWINGS
7524 – 001	GENERAL NOTES AND LEGEND
7524 – 102	EXISTING CONDITIONS PLAN SHEET 1 OF 2
7524 – 103	EXISTING CONDITIONS PLAN SHEET 2 OF 2
7524 – 104	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
7524 – 104A	EROSION AND SEDIMENT CONTROL PLAN
7524 – 105	PROPOSED STORMWATER PLAN SHEET 1 OF 2
7524 – 106	PROPOSED STORMWATER PLAN SHEET 2 OF 2
7524 – 110	DRAINAGE LONGITUDINAL SECTIONS SHEET 1 OF 2
7524 – 112	DRAINAGE LONGITUDINAL SECTIONS SHEET 2 OF 2
7524 – 201	PROPOSED STORMWATER DRAINAGE DETAILS

CLIENT:

GOW STREET
RECYCLING CENTER

CONSULTANTS:



FILE NAME & PATH: \\win-syd-dc-01\Sydney_Projects\7524-81 Gow St, Padstow\Acad\Working\7524-C-101.dwg PLOTTED BY: "usermacoie" PLOT DATE & TIME: 29 Jun, 2021 - 3:46pm

GENERAL

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCIES IN THESE DOCUMENTS SHALL BE REFERRED TO THE SUPERINTENDENT FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL CHECK AND BE RESPONSIBLE FOR THE CORRECTNESS OF ALL DIMENSIONS. ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE SUPERINTENDENT. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING OFF THE PLANS.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT AUSTRALIAN STANDARDS, THE BY-LAWS AND ORDINANCES OF THE RELEVANT AUTHORITIES AND THE SPECIFICATIONS.
- NO CHANGES SHALL BE MADE BY CONTRACTOR WITHOUT THE WRITTEN CONSENT OF THE SUPERINTENDENT.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SAFE WORK PRACTICES ARE FOLLOWED AT ALL TIMES DURING THE COURSE OF THE CONTRACT. OH&S REGULATIONS AND WORK COVER REQUIREMENTS ARE TO BE COMPLIED WITH.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL SURVEY MARKS ARE MAINTAINED. IF THE CONTROL MARKS ARE DESTROYED OR MOVED DURING CONSTRUCTION THE CONTRACTOR MUST SUPPLY ADEQUATE MARKS FOR RE-ESTABLISHMENT AND INFORM THE SUPERINTENDENT.
- REDUCED LEVELS, CHAINAGES, OFFSETS AND ROAD WIDTHS ARE IN METRES UNLESS OTHERWISE SHOWN. REDUCED LEVEL (RL) IS REFERENCED TO AUSTRALIAN HEIGHT DATUM (AHD)
- LIAISE WITH THE SUPERINTENDENT APPOINTED BY THE DEVELOPER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL SITE FILLING AREAS OTHER THAN THOSE ROADS & SPECIAL STRUCTURES TO BE CONSTRUCTED SHALL BE COMPACTED TO EARTHWORKS SPECIFICATIONS PREPARED BY LEVEL 1 GEOTECHNICAL ENGINEER.
- SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED BY THE SUPERINTENDENT TO THE REQUIREMENTS OF COUNCIL'S ENGINEER.
- ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS.
- THE CONTRACTOR SHALL NOT ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE WRITTEN PERMISSION OF THE OWNERS. TO BE PROVIDED PRIOR TO THE APPROVAL OF THE PLANS.
- SITE FILL AREAS - THE CONTRACTORS REGISTERED SURVEYOR SHALL TAKE LEVELS OF EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING FILL OPERATIONS.
- DRAINAGE LINES UNDER ROADS SHALL BE BACKFILLED WITH NON-COHESIVE SAND, AND THE SUBSOIL DRAIN WRAPPED IN APPROVED FILTER SOCK, DISCHARGING INTO DOWN STREAM PITS.
- ALL CONDUITS AND MAINS SHALL BE LAID PRIOR TO LAYING FINAL ASPHALTIC CONCRETE SEAL.
- STREET NAME SIGNS SHALL BE ERECTED, WHERE SHOWN, IN ACCORDANCE WITH COUNCIL'S STANDARD OR AS DIRECTED BY THE SUPERINTENDENT.
- DUST SCREENS SHALL BE ERECTED AND MAINTAINED AROUND THE PERIMETER OF THE SUBJECT LAND DURING LAND CLEARING, DEMOLITION AND CONSTRUCTION WORKS.
- ALL TREES WITHIN LIMIT OF WORKS TO BE REMOVED UNLESS NOTED AS PER LEGEND. TREES OUT OF LIMIT OF WORKS ZONE ARE TO BE LEFT UNTOUCHED. SHOULD THERE BE ANY IMPACTED TREES OUTSIDE OF WORKS THE SUPERINTENDENT IS TO BE INFORMED IMMEDIATELY.
- REFER TO CITY COUNCIL'S SPECIFICATION AND STANDARD DRAWINGS OF KERB INLET PIT AND KERB AND GUTTER.
- PROVIDE FLOODWAY WARNING SIGNS AT APPROPRIATE LOCATIONS AND/OR AS DIRECTED BY COUNCIL'S ENGINEER.
- WHERE OPERATIONS INVOLVE EXCAVATION, FILLING OR GRADING OF LAND OR REMOVAL OF VEGETATION INCLUDING GROUND COVER, DUST TO BE SUPPRESSED BY REGULAR WATERING UNTIL SUCH TIME AS THE SOIL IS STABILISED TO PREVENT AIRBORNE.

SERVICES:

- ALL EXISTING SERVICES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY AND HAVE BEEN LOCATED FROM VISUAL SITE INVESTIGATION AND RELEVANT AUTHORITIES' PLANS. THESE SERVICES ARE NOT GUARANTEED CORRECT OR COMPLETE.
- THE CONTRACTOR MUST OBTAIN UP-TO-DATE PLANS FROM 'DIAL BEFORE YOU DIG' BEFORE COMMENCEMENT OF WORKS. THE EXACT LOCATION OF ALL SERVICES ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS.
- EXISTING SERVICES ARE TO BE MAINTAINED OR ADJUSTED AS DETAILED IN THE PLANS IF APPLICABLE. ANY ADJUSTMENT OR PROTECTION MEASURES ARE TO BE CARRIED OUT BY ACCREDITED SERVICE PROVIDERS. REFER ANY CONFLICTS OR UNIDENTIFIED EXISTING SERVICES TO THE SUPERINTENDENT IMMEDIATELY.
- ELECTRICAL CONDUITS SHOULD BE PROVIDED AND LOCATED TO THE SATISFACTION OF INTEGRAL ENERGY.
- WATER CONDUITS SHOULD BE PROVIDED TO SUIT WATER MAIN LOCATIONS.
- TELSTRA AND OPTUS CONDUITS PROVIDED AND LOCATED TO THE SATISFACTION OF THE RELEVANT TELECOMMUNICATIONS AUTHORITY.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH UTILITY DESIGN DRAWINGS.
 - GAS
 - ELECTRICAL
 - WATER
 - SEWER
 - NBN
- ALL SERVICES PIT COVERS AND MARKERS ARE TO BE LAID ENTIRELY WITHIN OR OUTSIDE OF THE CONCRETE FOOTPATH. REFER TO INDESCO SERVICE COORDINATION DRAWINGS FOR SERVICE COVER LOCATIONS. CONTACT SUPERINTENDENT SHOULD DIFFICULTIES ARISE.
- WHERE SERVICES COVERS ARE LOCATED WITHIN THE FOOTPATH & ROADWAYS, INFILL COVERS WITH A PAVEMENT SIMILAR TO THAT OF THE FOOTPATH OR ADJACENT ROADWAY PROVIDE CONCRETE INFILL WHERE COVERS ARE WITHIN LANDSCAPE.
- ALL SERVICES COVERS TO BE PLACED AT FINISHED SURFACE LEVELS. ENSURE LONGITUDINAL AND CROSS FALL GRADES MATCH PROPOSED GRADES

SITE PREPARATION NOTES

- ORIGIN OF LEVELS: AHD. COORDINATES TO MGA - MAP GRID AUSTRALIA
- ASPHALTIC CONCRETE SHALL CONFORM TO R.T.A. FORM R116.
- ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.T.A. FORM 3051 (UNBOUND), R.T.A. FORM 3052 (BOUND) COMPACTED TO A MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF BASECOURSE MATERIAL KEEP.
- ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.T.A. FORM 3051 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF SUB-BASE COURSE MATERIAL PLACED.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH COUNCIL'S SPECIFICATION.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF WORKS, INCLUDING REPAIR AND/OR REPLACEMENT OF DAMAGED SECTIONS. INSPECTIONS ARE TO BE MADE PERIODICALLY DURING PROLONGED RAINFALL EVENTS AND AFTER STORM EVENTS FOR DAMAGE.
- ALL EXISTING TREES ON THE SITE ARE NOT TO BE DISTURBED OTHER THAN THOSE DESIGNATED ON THE PLANS FOR REMOVAL. THE SUPERINTENDENT IS TO APPROVE ALL TREES TO BE REMOVED. REMAINING TREES MUST BE PROTECTED IN ACCORDANCE TO THE SPECIFICATION.
- WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED OUT BY OTHERS (EG. ADJUSTMENT OF SERVICES). COORDINATION OF THESE WORKS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

STORMWATER DRAINAGE NOTES:

- STORMWATER DESIGN CRITERIA:
 - PIPE DRAINAGE SYSTEM IS DESIGNED FOR 5 YEAR ARI
 - OVERLAND DRAINAGE SYSTEM IS DESIGNED FOR MAJOR EVENT OF 100 YEAR ARI
- PRECAST REINFORCED CONCRETE PIPES SHALL COMPLY WITH AS4058 AND SHALL BE OF THE CLASS AND SIZE AS SHOWN ON THE DRAWINGS.
- JOINTS SHALL BE OF THE FLEXIBLE TYPE AND THE PIPES SHALL HAVE SPECIAL SOCKETS INCORPORATING RUBBER RING JOINTS COMPLYING WITH AS1646 AND AS RECOMMENDED BY THE MANUFACTURER
- BEDDING SHALL BE INACCORDANCE WITH COUNCIL SPECIFICATION 221, AS3725 AND AS3725 SUPPLEMENT 1.
- SUPPORT H2 SHALL BE USED FOR PIPE INSTALLATION NOT UNDER ROADWAY AND HS2 FOR PIPE INSTALLATION UNDER ROADWAY
- REFER TO COUNCIL SPECIFICATION 221 FOR DETAILS OF OTHER REQUIREMENTS
- CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- GRATES AND COVERS SHALL CONFORM WITH THE CANTERBURY-BANKSTOWN CITY COUNCIL'S SPECIFICATION.
- AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- BACKFILLING OF TRENCHES SHALL BE IN ACCORDANCE WITH THE CANTERBURY-BANKSTOWN CITY COUNCIL'S SPECIFICATIONS.
- REINFORCEMENT AND STEP IRONS ARE TO BE PLACED IN PITS GREATER THAN 1.2M DEEP IN ACCORDANCE WITH THE CANTERBURY-BANKSTOWN CITY COUNCIL'S REQUIREMENTS.
- SUBSOIL DRAINS ARE TO BE PROVIDED BEHIND ALL KERBS AS DIRECTED.
- PROVIDE RHS DISCHARGING TO KERB AND ASSOCIATED PIPES 0.5m BEYOND THE PROPERTY BOUNDARY FOR ALL LOTS WHICH DISCHARGE TO THE FRONT.

KERBING NOTES

- CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS, TO BE 20 MPa FOR KERBS & GUTTERS AND 25 MPa FOR DISH CROSSING AND LAYBACKS.
- ROAD BASE TO EXTEND BENEATH KERBS, GUTTERS, DISH DRAINS AND DRIVEWAY LAYBACKS. REFER TO R23 FOR FURTHER DETAILS.
- BEFORE PLACING ANY KERB AND/OR GUTTER, THE FOUNDATION MATERIAL SHALL BE SHAPED AND COMPACTED TO A FIRM BASE
- THE FOUNDATION, CONCRETE QUALITY, CURING AND TESTING DETAILS SHALL BE IN ACCORDANCE WITH AS2876.
- THE TOP AND FACE OF THE FINISHED KERB AND/OR GUTTER SHALL BE TRUE TO LINE AND THE TOP SURFACE SHALL BE OF UNIFORM WIDTH, FREE FROM HUMPS, SAGS OR OTHER IRREGULARITIES. KERB AND GUTTERS SHALL HAVE A STEEL FLOAT FINISH.
- CONTRACTION JOINTS SHALL BE FORMED EVERY 3m OF GUTTER LENGTH FOR A MINIMUM OF 50% OF CROSS SECTIONAL AREA. THE JOINTS SHALL BE TOOLED 20mm IN DEPTH TO FORM A NEAT GROOVE OF 5mm MINIMUM WIDTH.
- UNLESS SHOWN ON THE DRAWINGS, EXPANSION JOINTS, 10mm IN WIDTH FOR THE FULL DEPTH OF THE KERB AND GUTTER SHALL BE CONSTRUCTED AT INTERVALS NOT EXCEEDING 12m AND WHERE THE GUTTER ABUTS AGAINST EXISTING KERB AND GUTTER, PITS, RETAINING WALLS, OVERBRIDGE AND AT BOTH SIDES OF KERB LAYBACKS FOR VEHICULAR OR PEDESTRIAN ACCESS. EXPANSION JOINTS SHALL BE CONSIST OF PREFORMED JOINTING MATERIAL OF BITUMINOUS FIBREBOARD EREQUIVALENT APPROVED BY THE SUPERINTENDENT.
- WHERE KERBS AND/OR GUTTERS ARE CAST ADJACENT WITH A CONCRETE PAVEMENT THE SAME TYPE OF CONTRACTION, CONSTRUCTION AND EXPANSION JOINTS SPECIFIED IN THE CONCRETE BASED SHALL BE CONTINUED ACROSS THE KERB AND/OR GUTTER.
- REFER TO CANTERBURY-BANKSTOWN COUNCIL'S SPECIFICATION FOR MORE DETAILS.

ALL NOTES ARE TO BE READ IN CONJUNCTION WITH THE CANTERBURY-BANKSTOWN COUNCIL'S ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS.

BULK EARTHWORKS NOTES:

- ORIGIN OF LEVELS: REFER TO SURVEY PLANS & NOTES.
- STRIP ALL TOPSOIL/ORGANIC MATERIAL FROM CONSTRUCTION AREA AND REMOVE FROM SITE OR STOCKPILE AS DIRECTED BY SUPERINTENDENT
- GEOTECHNICAL CONTROLS SHALL BE SPECIFIED AND MONITORED BY EXPERIENCED GEOTECHNICAL ENGINEERS.
- FILLING PLACED IN ACCORDANCE WITH A LEVEL 1 INSPECTION AND TESTING STANDARD AS DEFINED IN AS3798 WITH EXPERIENCED GEOTECHNICIANS ON SITE DURING THE PLACEMENT AND COMPACTION OF FILLING
- FILLING CONSISTING OF VENM
- COMPACTION OF SOIL SHALL BE IN ACCORDANCE WITH AS3789

SURVEY NOTES:

- ALL SITE SET OUT POINTS ARE TO BE CERTIFIED BY A REGISTERED SURVEYOR.
- THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY THE REGISTERED SURVEYOR. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. INDESCO DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
- CONTACT SUPERINTENDENT IF DISCREPANCIES ARE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND FIELD DATA.

TELSTRA - DUTY OF CARE NOTE

TELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT. THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES, PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT WARRANT OR HOLD OUT THAT SUCH PLANS ARE ACCURATE THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY. THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT. BEFORE USING MACHINE EXCAVATORS TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POTHOLING TO IDENTIFY IT'S LOCATION TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO IT'S PROPERTY AND LOSSES CAUSED TO TELSTRA AND IT'S CUSTOMERS.

PAVEMENTS AND ROAD WORKS NOTES:

PEDESTRIAN PAVEMENT JOINTS

- ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS (U.N.O.)
- EXPANSION JOINTS ARE TO BE LOCATED, WHERE POSSIBLE, AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX. 1.2m CENTRES.
- SAW JOINTS ARE TO BE LOCATED AT A MAX. SPACING OF 1.5m
- JOINTS SHALL BE LOCATED TO MATCH KERBING AND OR ADJACENT PAVEMENT JOINTS WHERE POSSIBLE.
- PEDESTRIAN PAVEMENT JOINTING DETAILS SHALL BE AS PER STANDARD DRAWING R23
- ALL VEHICULAR PAVEMENTS TO BE JOINTED AS PER THE DRAWINGS.
- VEHICULAR ACCESS IS TO BE MAINTAINED FOR ALL PROPERTIES DURING THE COURSE OF CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT RESIDENTS/OWNERS WITHIN 48 HOURS PRIOR TO COMMENCEMENT OF WORKS UNLESS OTHERWISE DIRECTED.
- ALL DRIVEWAY ADJUSTMENTS ARE TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS
- SUBSOIL FLUSHING POINTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL'S STANDARD
- TRENCHES FOR PROPOSED SERVICES CROSSING THE ROAD SHALL BE BACKFILL IN ACCORDANCE WITH COUNCIL'S SPECIFICATION
- ALL ROADS ARE TO BE TEMPORARILY SEALED WITH A 1 COAT SEAL. THE FINAL ASPHALT CONCRETE TO BE BONDED AND PLACED FOLLOWING APPROVAL FROM COUNCIL.

PROPOSED SERVICES ALIGNMENTS TO BE CHECKED BY CONTRACTOR AND COORDINATED.

No.	AMENDMENT	APPROVED	DATE	AMENDED BY	DEVELOPMENT TEAM
C	ISSUED FOR DA APPROVAL	LL	29.06.2021	AR	
B	ISSUED FOR DA APPROVAL	SB	27.05.2021	EJ	
A	ISSUED FOR DA APPROVAL	KN	02.06.2020	SB	

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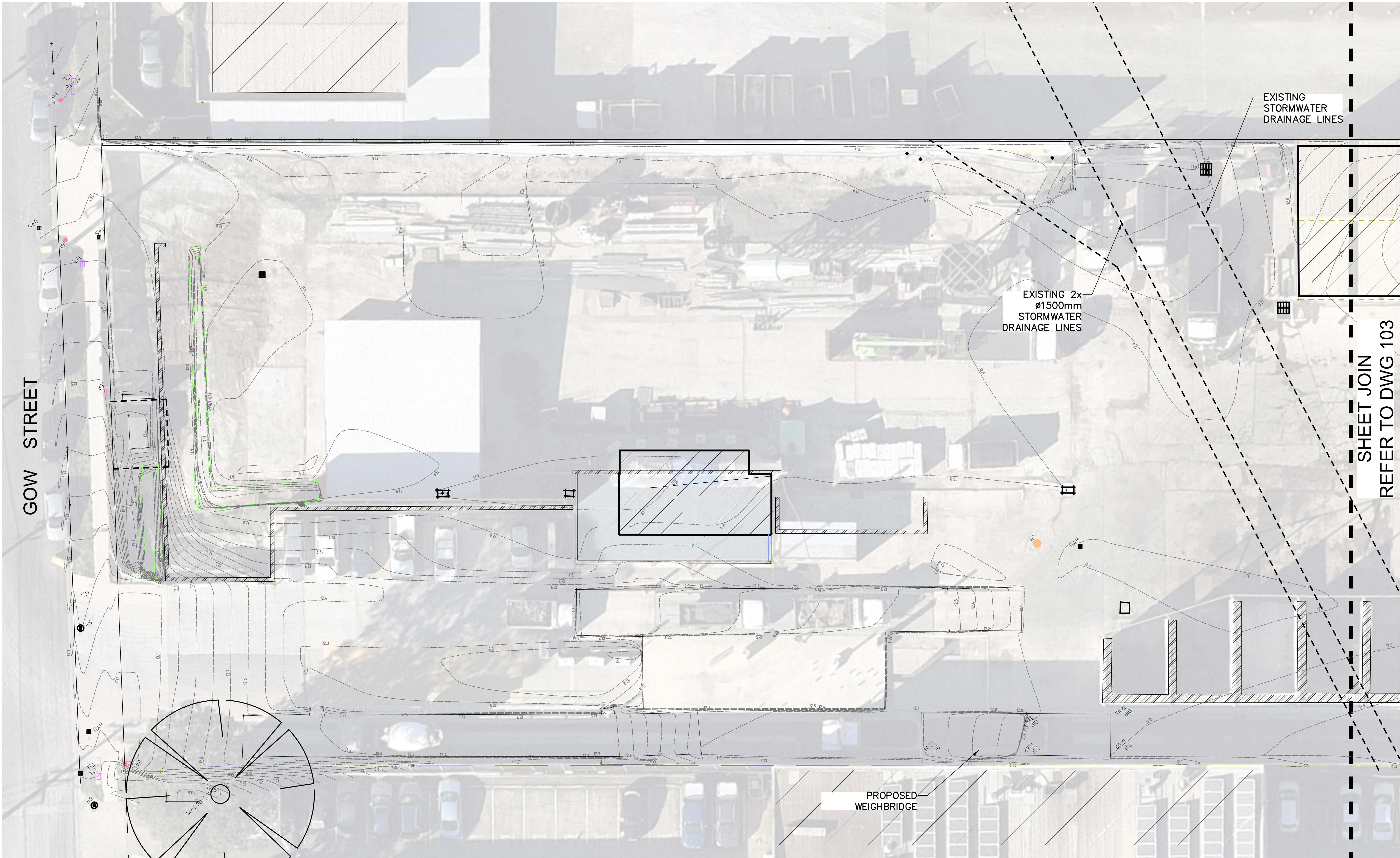
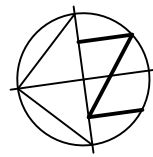


APPROVED	DF	DATE	02.06.2020
CHECKED	KN	DATE	02.06.2020
DESIGNED BY	SB		
DRAWN BY	SB		
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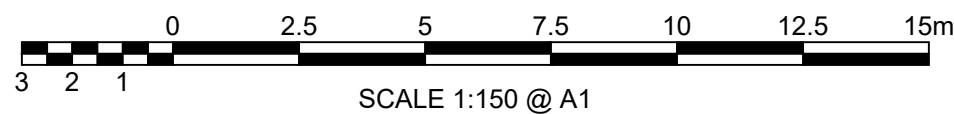
PROJECT
81 GOW STREET
PADSTOW
WATER REUSE AND
DRAINAGE UPGRADE

DRAWING TITLE
GENERAL NOTES

PROJECT No. 7542	DRAWING No. 101	AMDT C
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PLAN VIEW
SCALE 1:150



No.	AMENDMENT	APPROVED	DATE	AMENDED BY	DEVELOPMENT TEAM
D	ISSUED FOR DA APPROVAL	LL	29.06.2021	AR	
C	ISSUED FOR DA APPROVAL	SB	24.05.2021	EJ	
B	REVISED PIT LOCATIONS	KN	23.07.2020	SB	
A	ISSUED FOR DA APPROVAL	KN	02.06.2020	SB	

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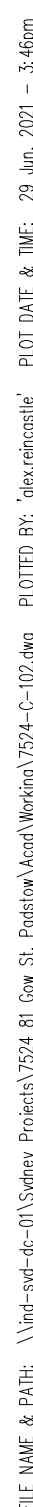
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PROJECT
81 GOW STREET
PADSTOW
WATER REUSE AND
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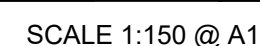
DRAWING TITLE
EXISTING CONDITIONS PLAN
SHEET 1 OF 2

PROJECT No. 7524	DRAWING No. 102	AMDT D
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SCALE 1:150



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GOW STREET
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APPROVED	DF	DATE	02.06.2020
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SCALE		SHEET No.	
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81 GOW STREET
PADSTOW
WATER REUSE AND
DRAINAGE UPGRADE

EXISTING CONDITIONS PLAN
SHEET 2 OF 2

PROJECT No.
7524

DRAWING No.	103
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AMDT
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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 TACKLED AND 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:

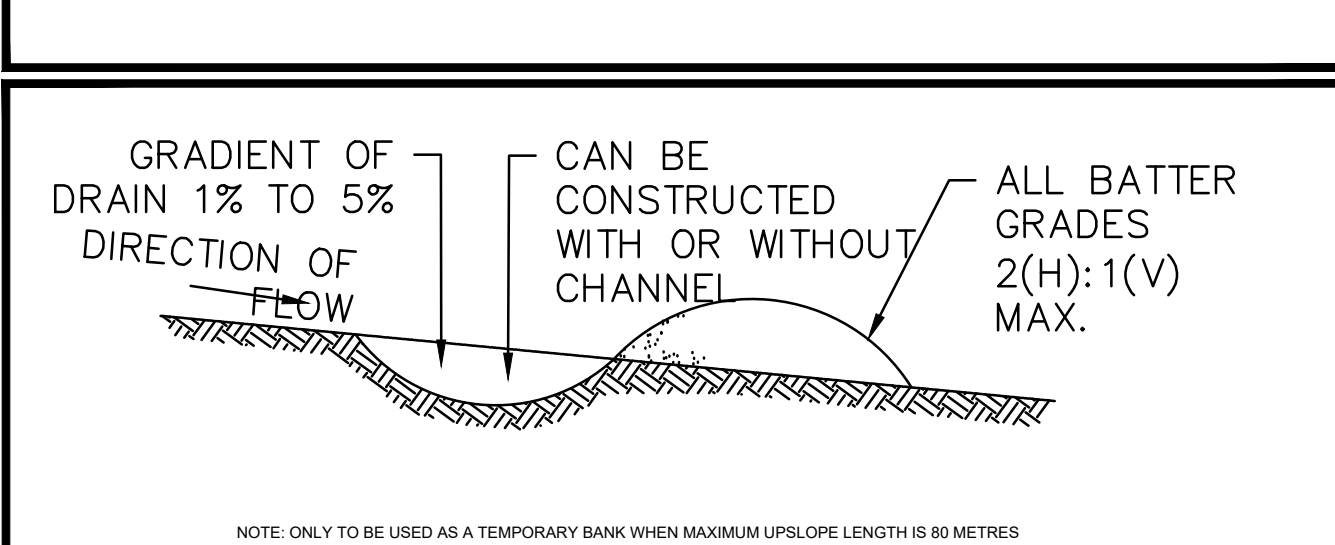
JAPANESE MILLET	SPR/SUM	AUT/WIN
RYE CORN/OATS	16kg/Ha	16kg/Ha
COUCH GRASS	6kg/Ha	16kg/Ha
RHODES GRASS	10kg/Ha	8kg/Ha
PERENNIAL RYE GRASS	10kg/Ha	8kg/Ha
STARTER FERTILISER (AT SOWING)	6kg/Ha	10kg/Ha
MAINTENANCE FERTILISER	300kg/Ha	300kg/Ha
(FOLLOWING SPRING/SUMMER)	100kg/Ha	100kg/Ha

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 OF THE SOIL STABILISATION 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.

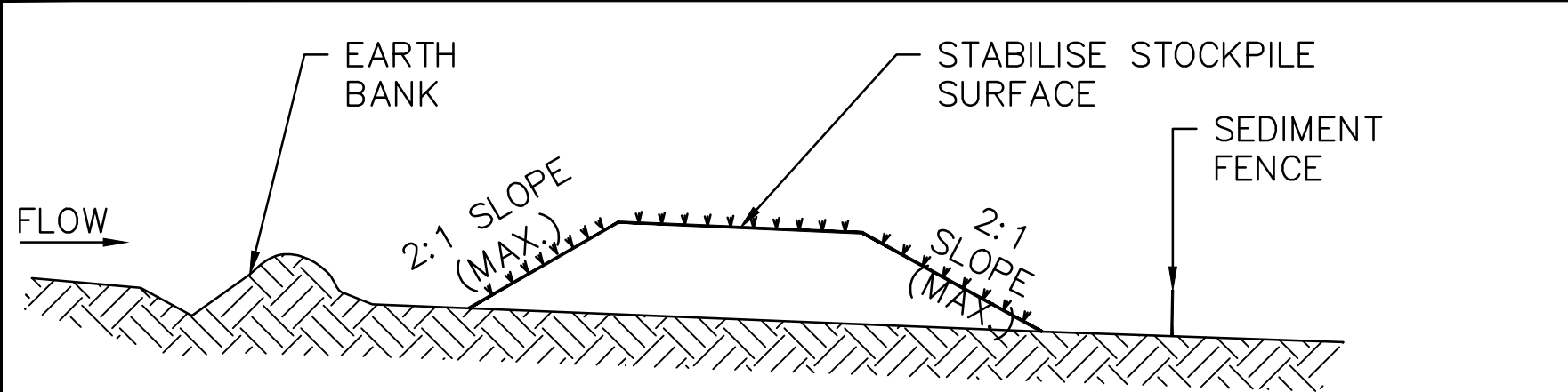
1. SPOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREAS WHERE WATER MAY CONCENTRATE.
2. IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 30 DAYS THEN THEY SHALL BE STABILIZED BY COVERING WITH MULCH OR WITH TEMPORARY VEGETATION.
3. FOLLOWING CONSTRUCTION, TOPSOIL SHALL BE RESPIRED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

1. FILTER FABRIC (E.G. PROPOX OR EQUIVALENT) SHALL BE STRETCHED BETWEEN POSTS AT MAX. 3m C/C 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.



1. PLACE STOCKPILE 5 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.

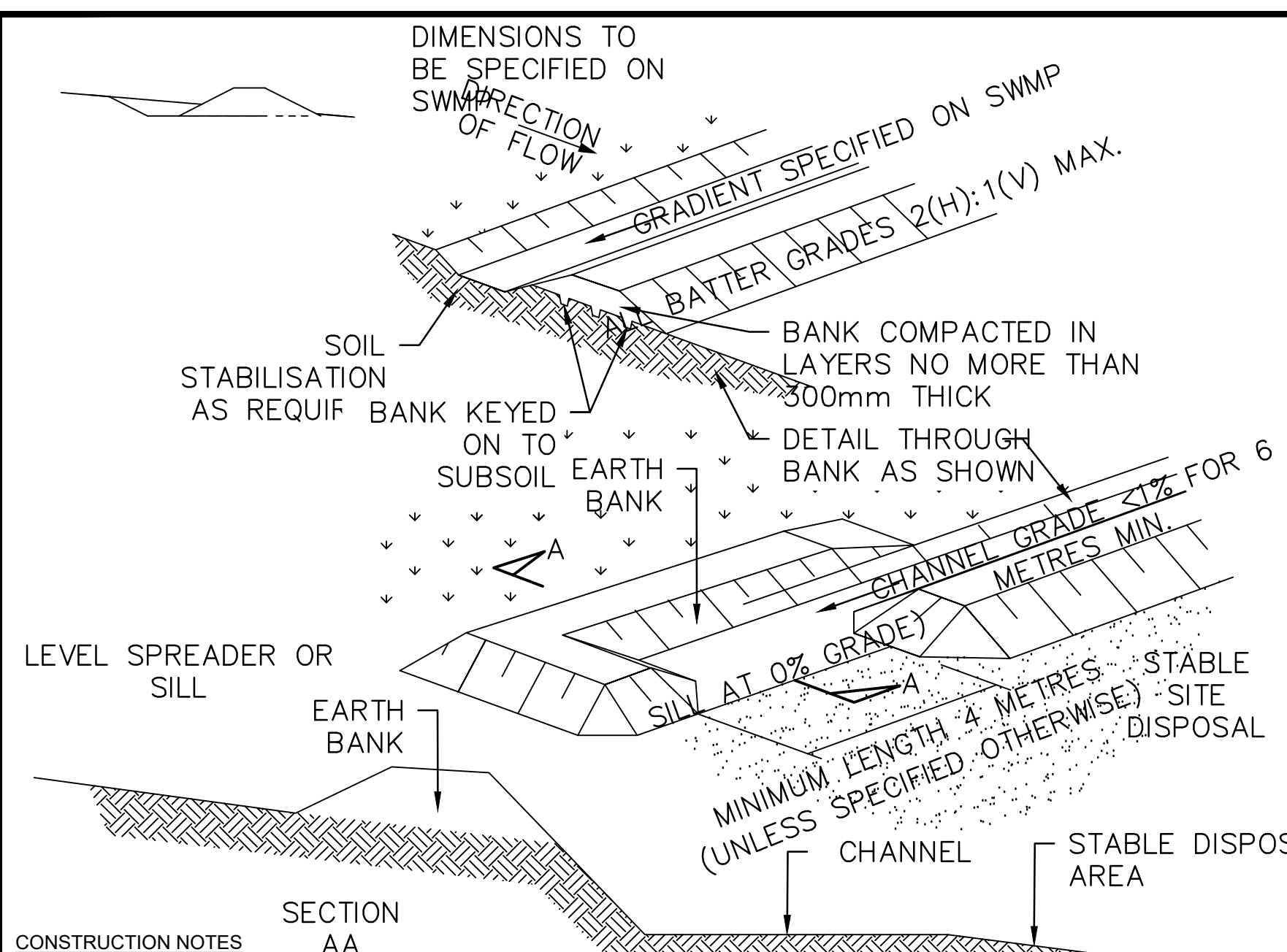
WHERE STOCKPILES ARE TEMPORARY (<14 DAYS) NO STABILISATION IS REQUIRED. REVIEW THE ADEQUACY OF SEDIMENT CONTROLS IF RAINFALL IS PREDICTED.

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.

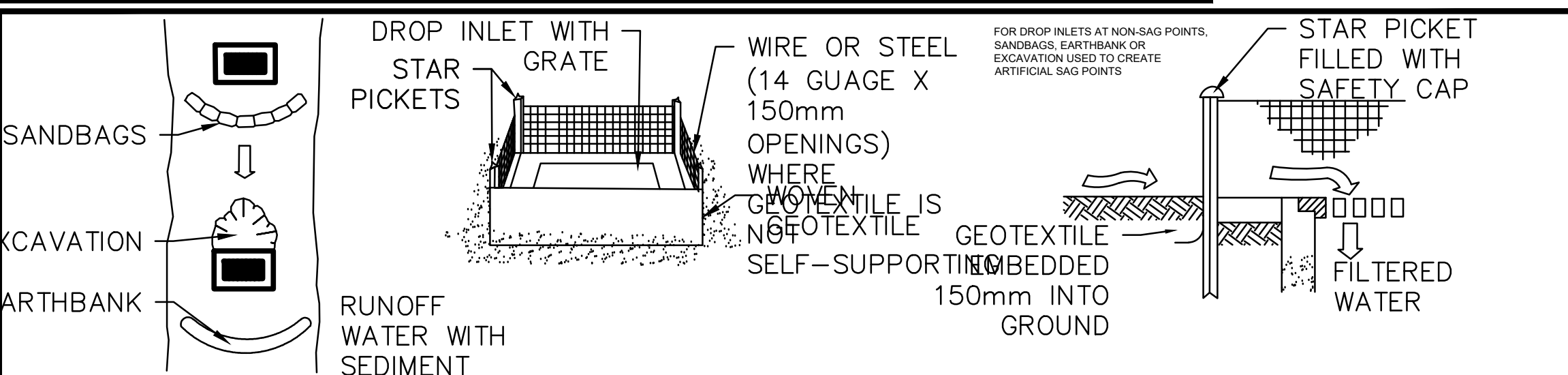
CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWINGS 6-3) 1 TO 2 METRES DOWNSLOPE.

SD 4-1



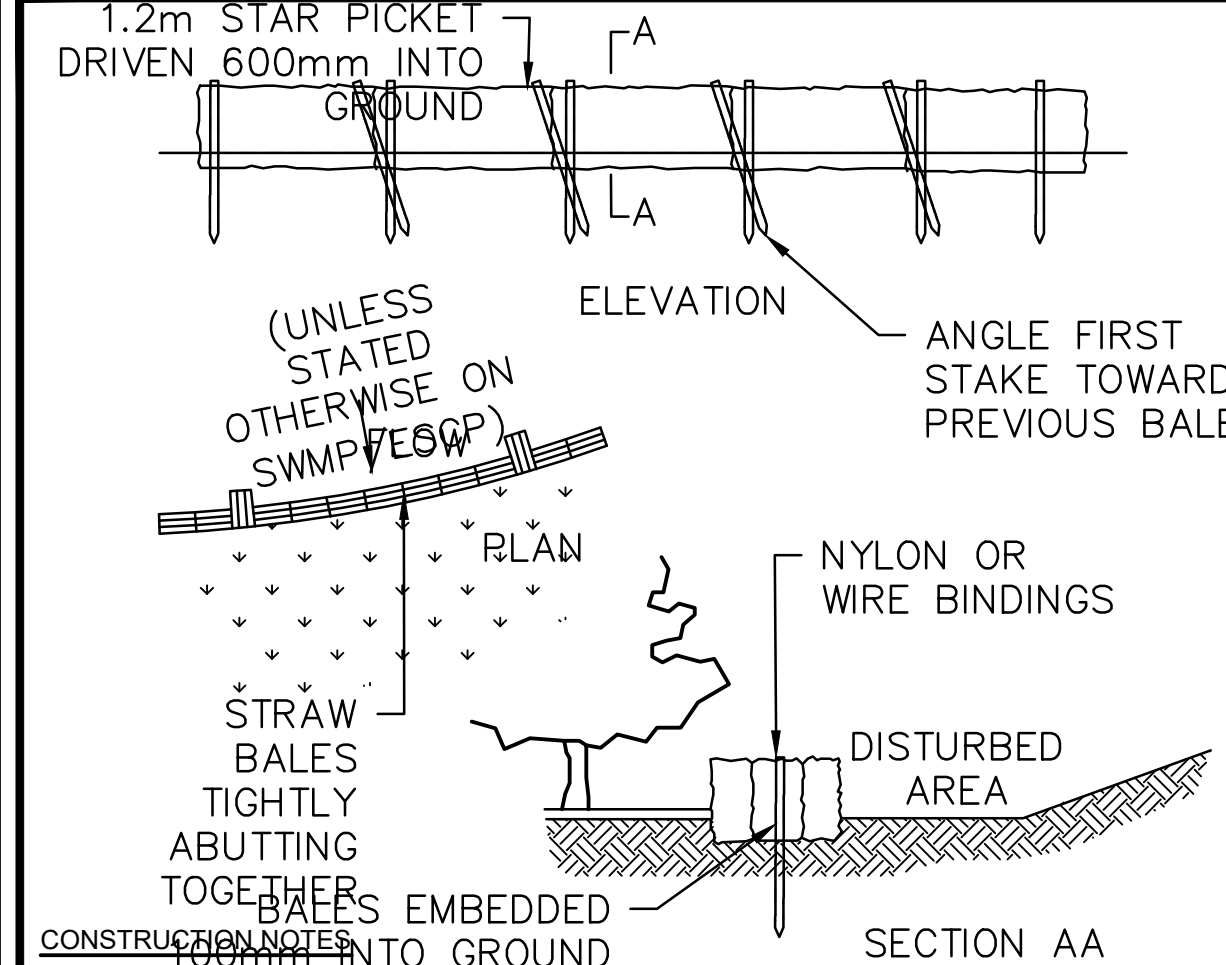
1. CONSTRUCT AT THE GRADIENT SPECIFIED ON THE ESCP OR SWMP, NORMALLY BETWEEN 1% AND 5%.
 AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
 ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
 BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL 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).
 WHILE 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.

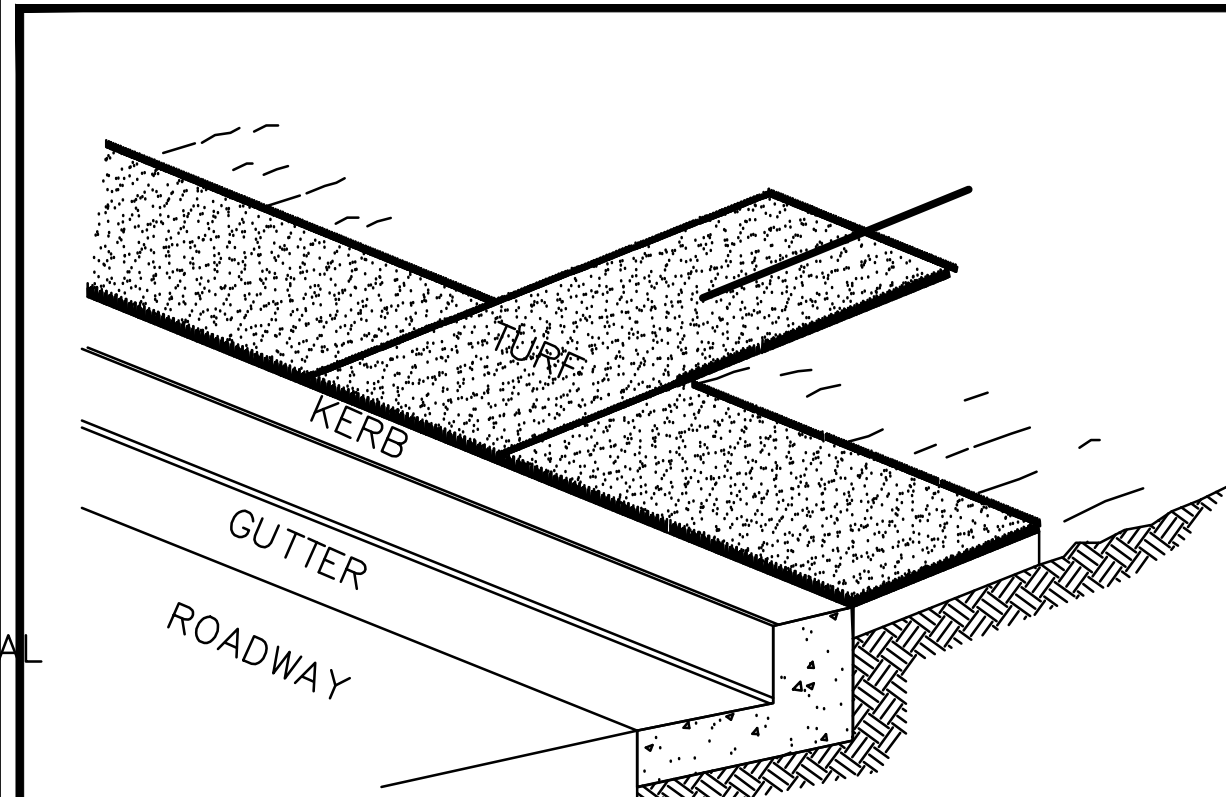
SD-6-12



SECTION AA

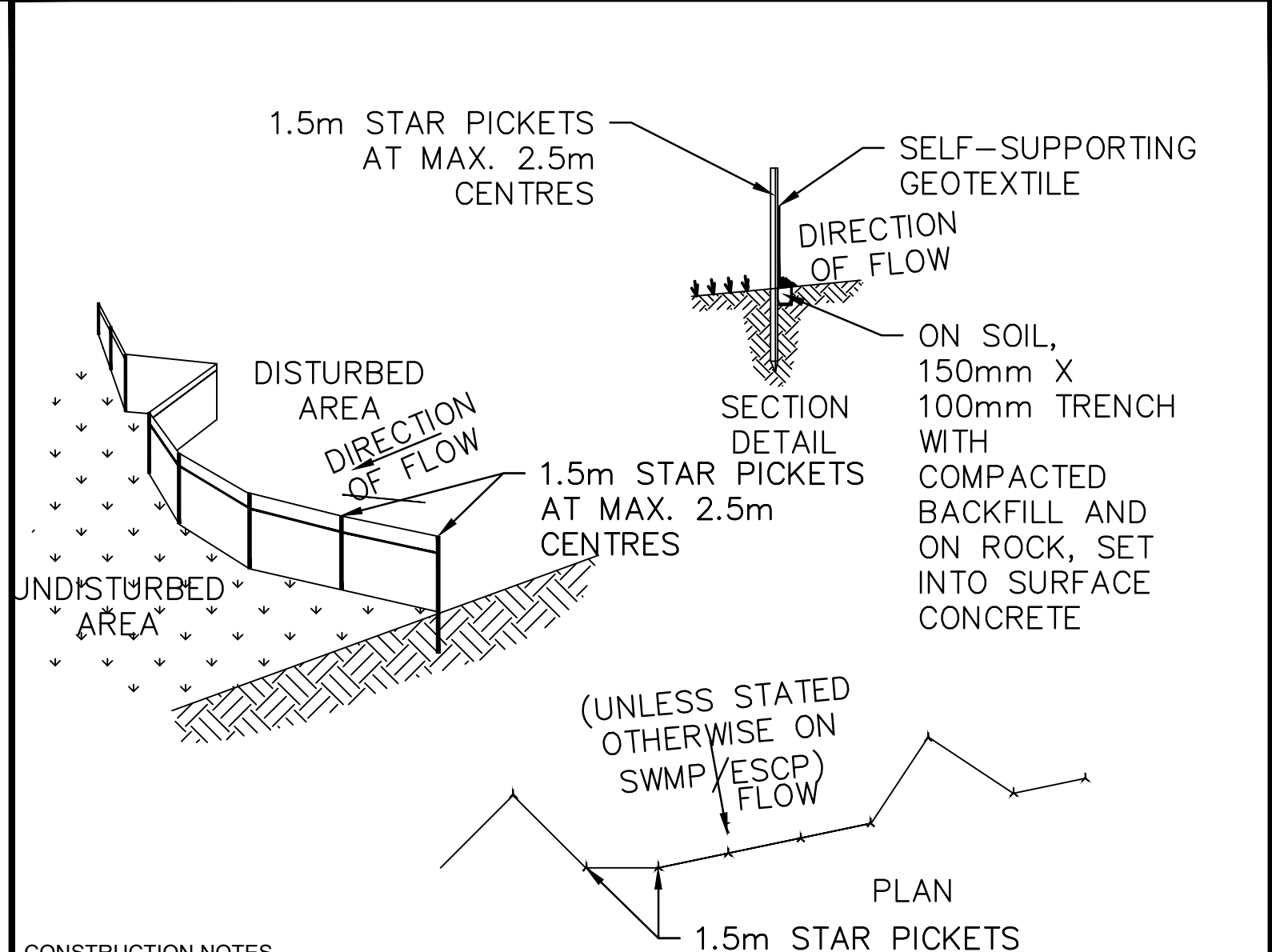
1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE.
2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN THE BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND.
3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE.
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. 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. 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. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BOUNDARY PRICSEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.

CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.

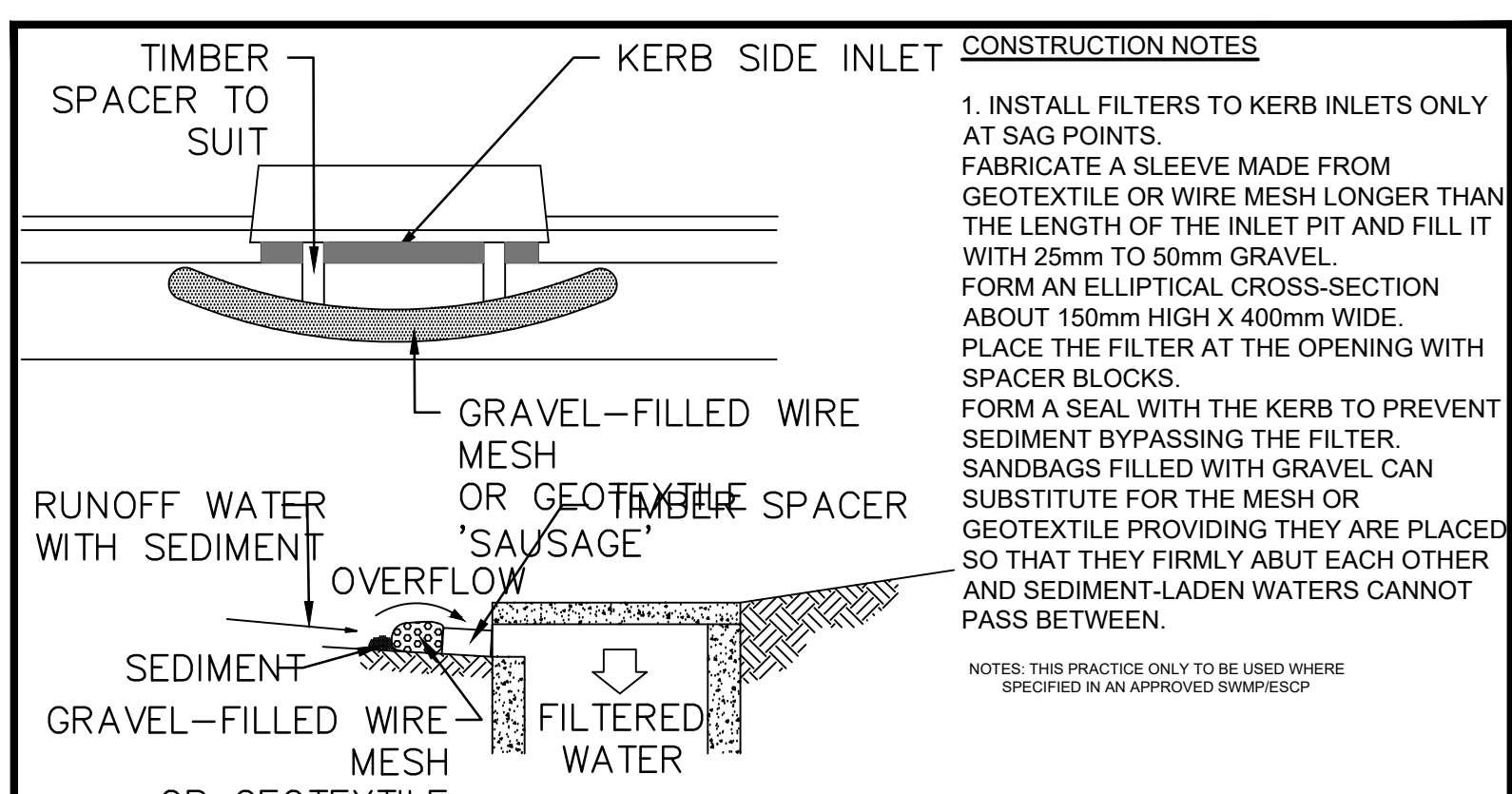
DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.

FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.

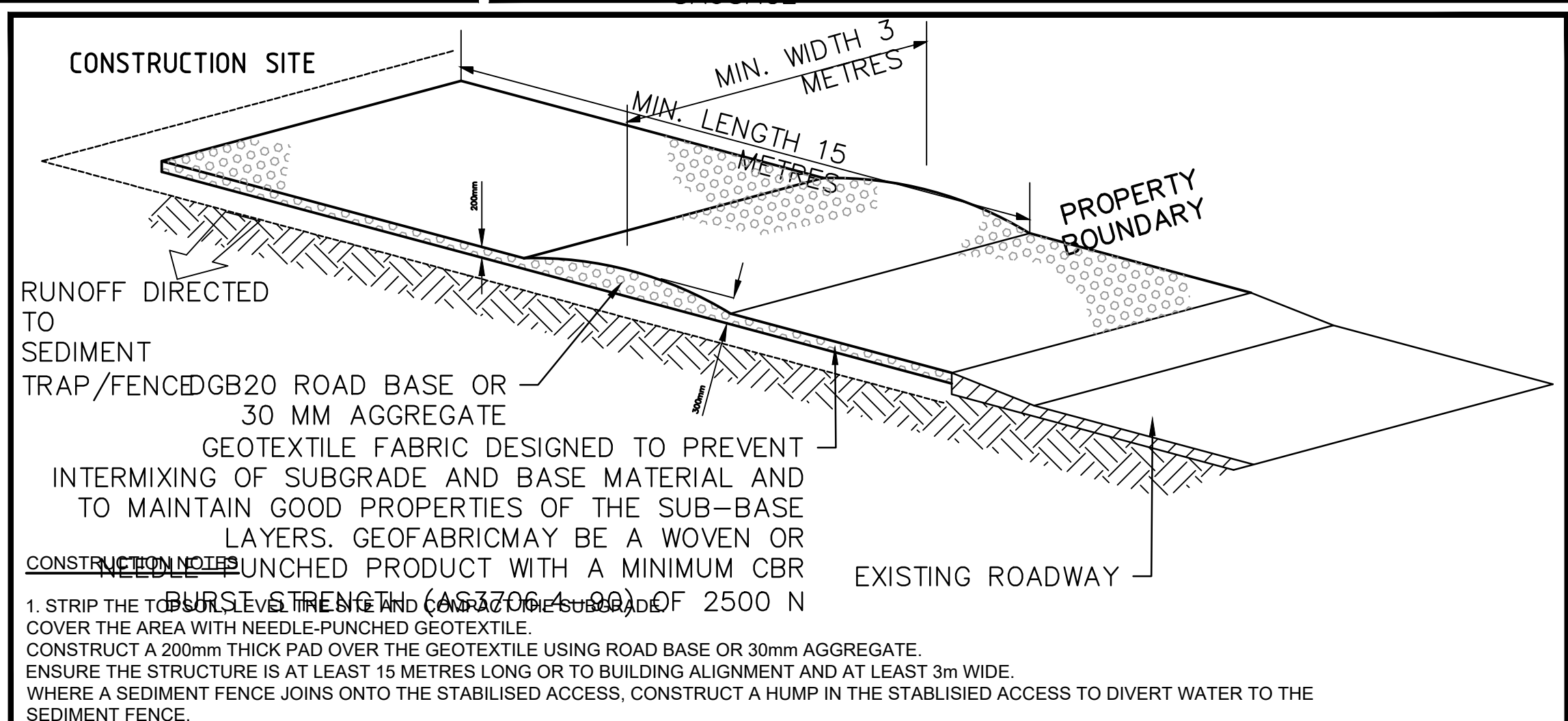
JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.

BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SD 6-8



SD-6-11



SD 6-14

No.	AMENDMENT	APPROVED	DATE	MEMOED BY
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A	ISSUED FOR DA APPROVAL	KN	23.07.2021	SB

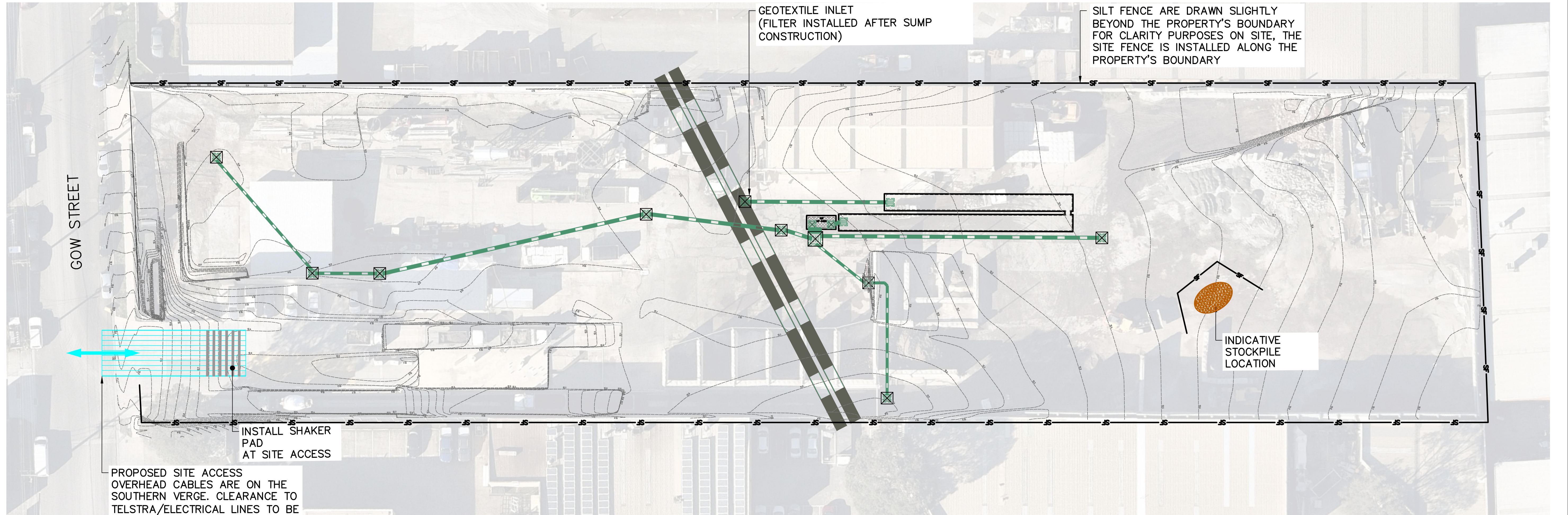
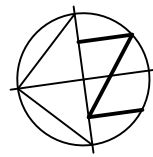
CLIENT

GOW STREET
RECYCLING
CENTER

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APPROVED	DF	DATE	02.06.2020
CHECKED	KN	DATE	02.06.2020
DESIGNED BY	SB		
DRAWN BY	SB		
CAD FILE: \\ind-syd-dc-01\Sydney_Projects\7524 81 Gow St. Padstow\Acad\Working\7524-C-104.dwg			
SCALE	AS SHOWN	SHEET No.	

PROJECT 81 GOW STREET PADSTOW WATER REUSE AND DRAINAGE UPGRADE	DRAWING TITLE EROSION AND SEDIMENT CONTROL NOTES AND DETAILS		
	PROJECT No. 7524	DRAWING No. 104	AMDT B



PLAN VIEW
SCALE 1:300

NOTES

1. SILT FENCE AND STOCKPILE LOCATION ARE SHOWN INDICATIVELY. CONTRACTOR IS TO ADJUST THEM TO SUIT SITE CONDITIONS AND WORK SEQUENCE.



No.	AMENDMENT	APPROVED	DATE	AMEND BY	DEVELOPMENT TEAM
C	ISSUED FOR DA APPROVAL	LL	29.06.2021	AR	
B	ISSUED FOR DA APPROVAL	SB	27.05.2021	EJ	
A	ISSUED FOR DA APPROVAL	KN	23.07.2020	SB	

CLIENT
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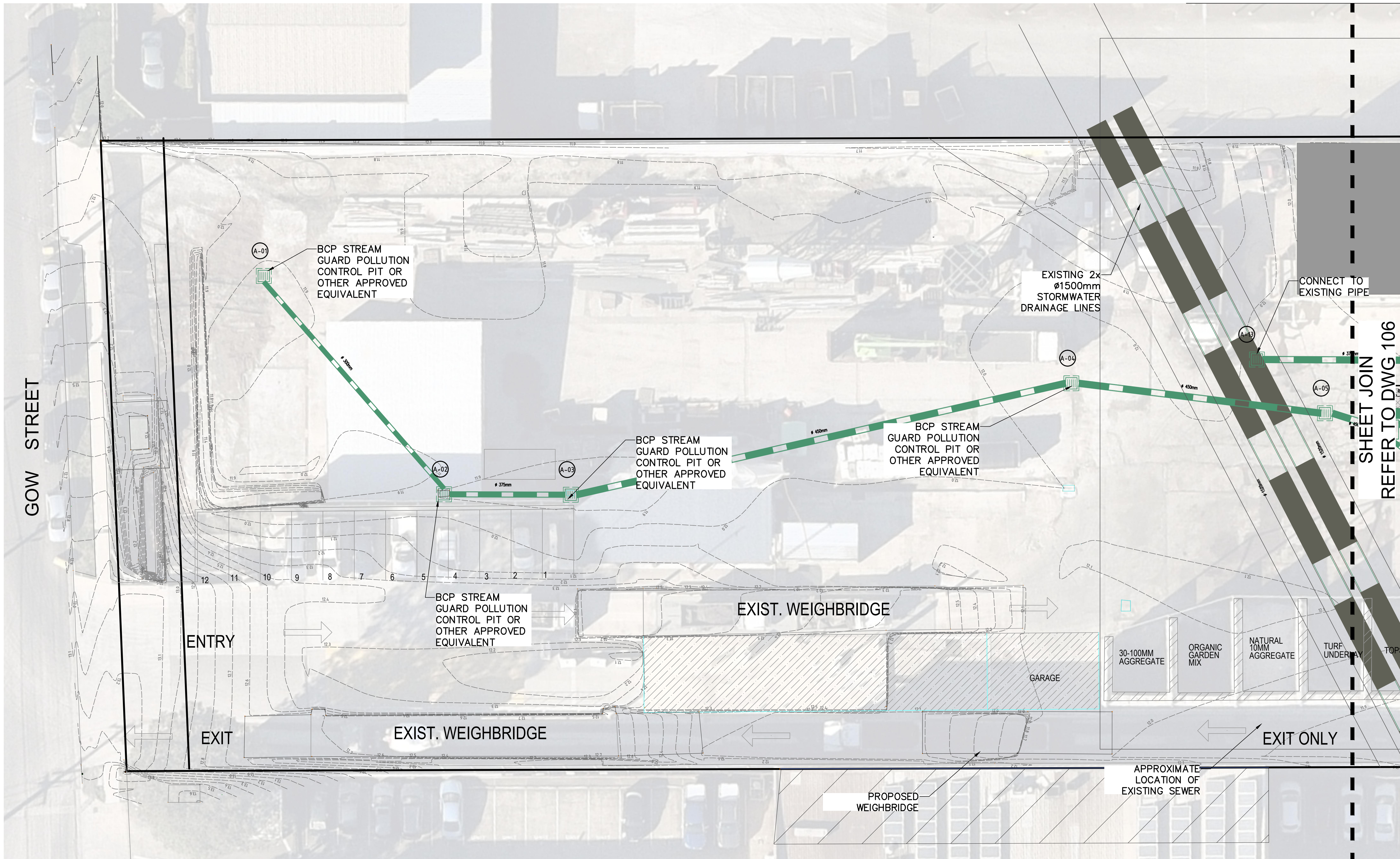
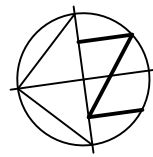


SYDNEY WATER

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CHECKED	KN	DATE	02.06.2020
DESIGNED BY	SB		
DRAWN BY	SB		
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SCALE	AS SHOWN	SHEET No.	

PROJECT
81 GOW STREET PADSTOW WATER REUSE AND DRAINAGE UPGRADE

DRAWING TITLE		
EROSION AND SEDIMENT CONTROL PLAN		
PROJECT No.	DRAWING No.	AMDT
7524	104A	C



PLAN VIEW
SCALE 1:150

NOTE:
ALL GRATED PITS ARE TO BE
STREAM GUARD POLLUTION
CONTROL PIT OR OTHER
APPROVED EQUIVALENT (UNO)

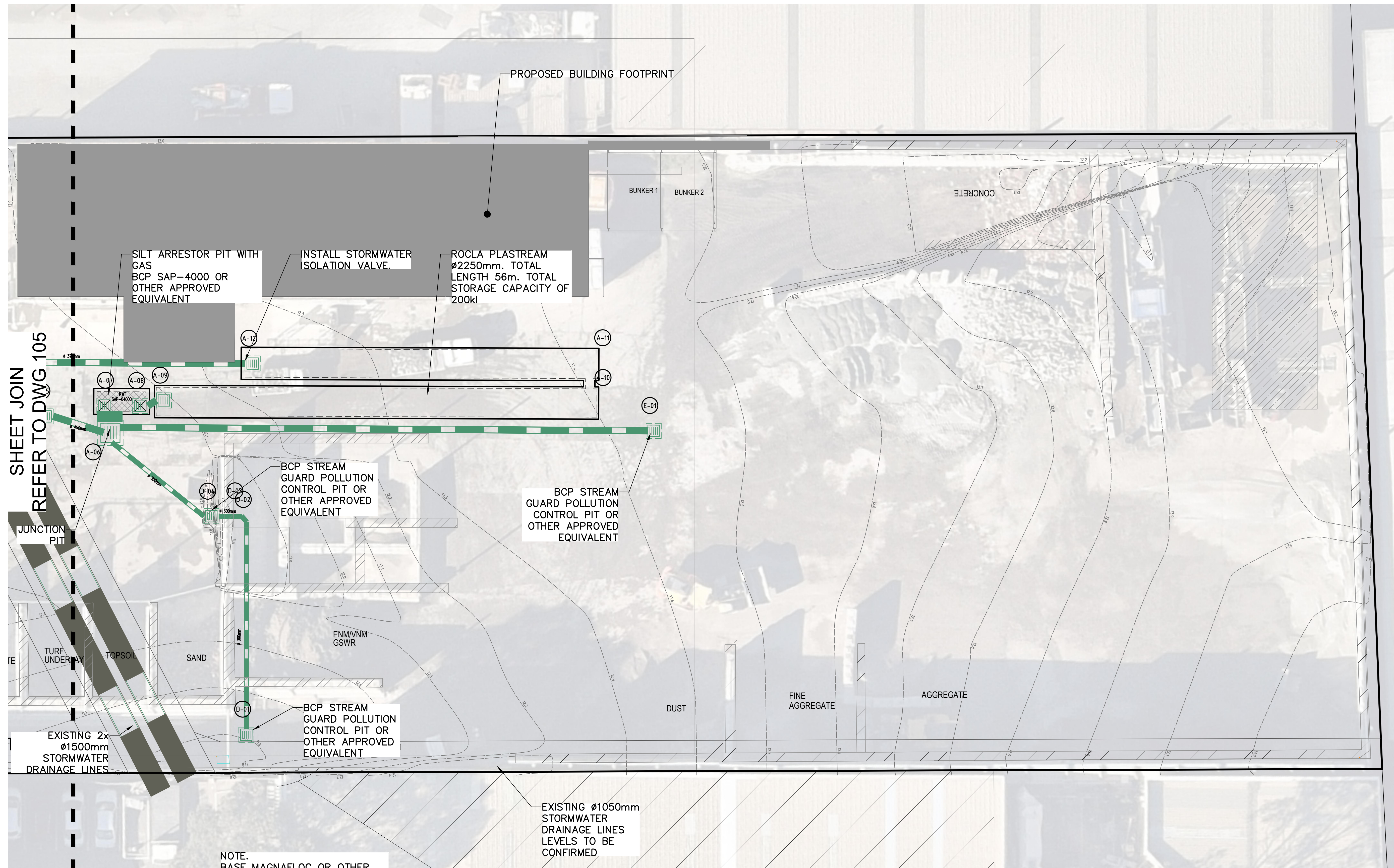
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D	ISSUED FOR DA APPROVAL	LL	29.06.2021	AR	
C	ISSUED FOR DA APPROVAL	SB	27.05.2021	EJ	
B	REVISED PIT LOCATIONS	KN	23.07.2020	SB	
A	ISSUED FOR DA APPROVAL	KN	02.06.2020	SB	

GOW STREET
RECYCLING
CENTER

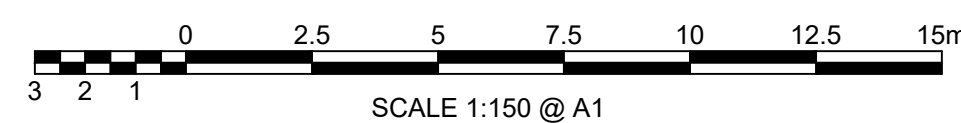


APPROVED	DF	DATE	02.06.2020
CHECKED	KN	DATE	02.06.2020
DESIGNED BY	SB		
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SCALE	AS SHOWN	SHEET No.	

PROJECT		DRAWING TITLE	
81 GOW STREET PADSTOW WATER REUSE AND DRAINAGE UPGRADE		PROPOSED STORMWATER PLAN SHEET 1 OF 2	
PROJECT No.	7524	DRAWING No.	105
AMDT			D



SCALE 1:150



NOTE.
BASF MAGNAFLOC OR OTHER
APPROVED EQUIVALENT,
ADDITIVE TO BE USED TO
INCREASE SETTLING OF
SUSPENDED SOLIDS IN
RECYCLED WATER

No.	AMENDMENT	APPROVED	DATE	MINOR
E	ISSUED FOR DA APPROVAL	LL	07.07.2021	AR
D	ISSUED FOR DA APPROVAL	LL	29.06.2021	AR
C	ISSUED FOR DA APPROVAL	SB	27.05.2021	EU
B	REVISED PIT LOCATIONS	KN	23.07.2020	SE
A	ISSUED FOR DA APPROVAL	KN	02.06.2020	SB

BY DEVELOPMENT TEAM

CLIENT

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APPROVED	DF	DATE	02.06.2020
CHECKED	KN	DATE	02.06.2020
DESIGNED BY	SB		
DRAWN BY	SB		
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SCALE	AS SHOWN		SHEET No.

PROJECT

81 GOW STREET
PADSTOW
WATER REUSE AND
DRAINAGE UPGRADE

DRAWING TITLE

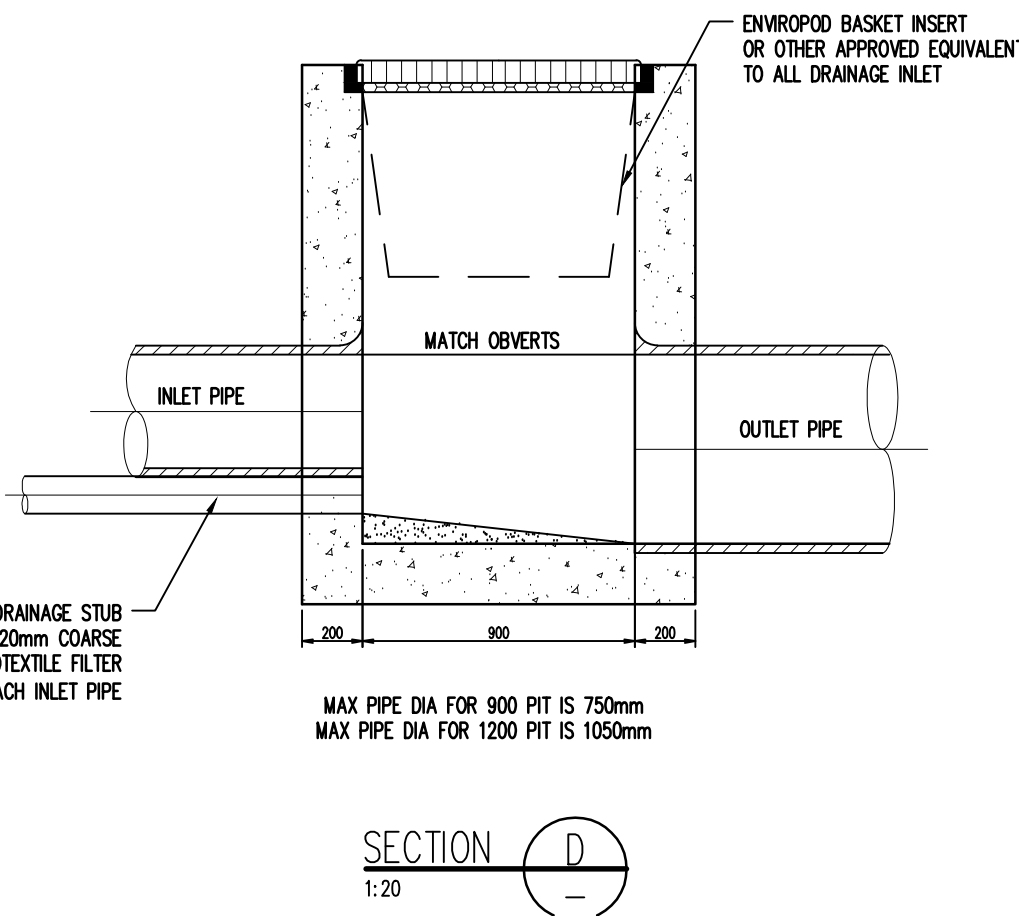
PROPOSED STORMWATER
PLAN
SHEET 2 OF 2

PROJECT No.
7524

DRAWING No.
106

AMDT
E

FILE NAME & PATH: \\wind-srd-dr-01\Scherv Projects\7524 81 Gow St. Potistow\Acad\Working\7524-C-105.dwg PLOTTED BY: alex.reinocastle* PLOT DATE & TIME: 08 Jul. 2021 - 11:21am



- ## NOTES:
1. COMPRESSIVE STRENGTH OF CONCRETE
FC AT 28 DAYS TO BE MIN. 30 MPa.
 2. PROVIDE CONCRETE BENCHING ACROSS PIT
TO INLET & OUTLET PIPES AS DETAILLED.
 3. 100 SUBSOL. DRAINAGE PIPE 3.0m LONG
WEIGHT IN FABRIC SOCK TO BE PLACED
ADJACENT TO INLET PIPES ON BOTH SIDES
AND 100mm MINIMUM ABOVE PIT FLOOR.
 4. PROVIDE STEP RAMP LADDER WHERE IT IS DEEPER
THAN 1200mm PLACED ON A WALL CLEAR OF FLOW
WHERE POSSIBLE.
 5. PITS DEEPER THAN 2000mm ARE TO BE DESIGNED
BY A CERTIFIED STRUCTURAL ENGINEER
 6. PRE-CAST CONCRETE PITS MAY BE INSTALLED IN
ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
 7. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED
OTHERWISE.

NOTE.
ALL GRATED PITS ARE TO BE STREAM
GUARD POLLUTION CONTROL PIT OR OTHER
APPROVED EQUIVALENT (UNO)

SILT ARRESTOR PIT WITH GAS TIGHT LID
RECOMMENDED PRODUCT
BCP SAP-4000 OR OTHER APPROVED
EQUIVALENT

WATER STORAGE
RECOMMENDED PRODUCT
ROCLA PLASTREAM Ø2250MM. TOTAL
LENGTH 56M. TOTAL STORAGE CAPACITY
OF 200KL

CONCEPT

No.	AMENDMENT	APPROVED	DATE	MEMOED BY	DEVELOPMENT TEAM	CLIENT				PROJECT	DRAWING TITLE
						GOW STREET RECYCLING CENTER	 INDESCO CANBERRA SYDNEY WOLLONGONG www.indesco.com.au	  	APPROVED DF DATE 02.06.2020 CHECKED KN DATE 02.06.2020 DESIGNED BY SB DRAWN BY SB CAD FILE: \\ind-syd-dc-01\Sydney_Projects\7524_81_Gow St_Padstow_Accd\Working\7524-C-201.dwg SCALE AS SHOWN SHEET No.	81 GOW STREET PADSTOW WATER REUSE AND DRAINAGE UPGRADE	PROPOSED STORMWATER DRAINAGE DETAILS PROJECT No. 7524 DRAWING No. 201 AMDT C
C	ISSUED FOR DA APPROVAL	LL	29.06.2021	AR							
B	ISSUED FOR DA APPROVAL	SB	27.05.2021	EJ							
A	ISSUED FOR DA APPROVAL	KN	02.06.2021	SB							