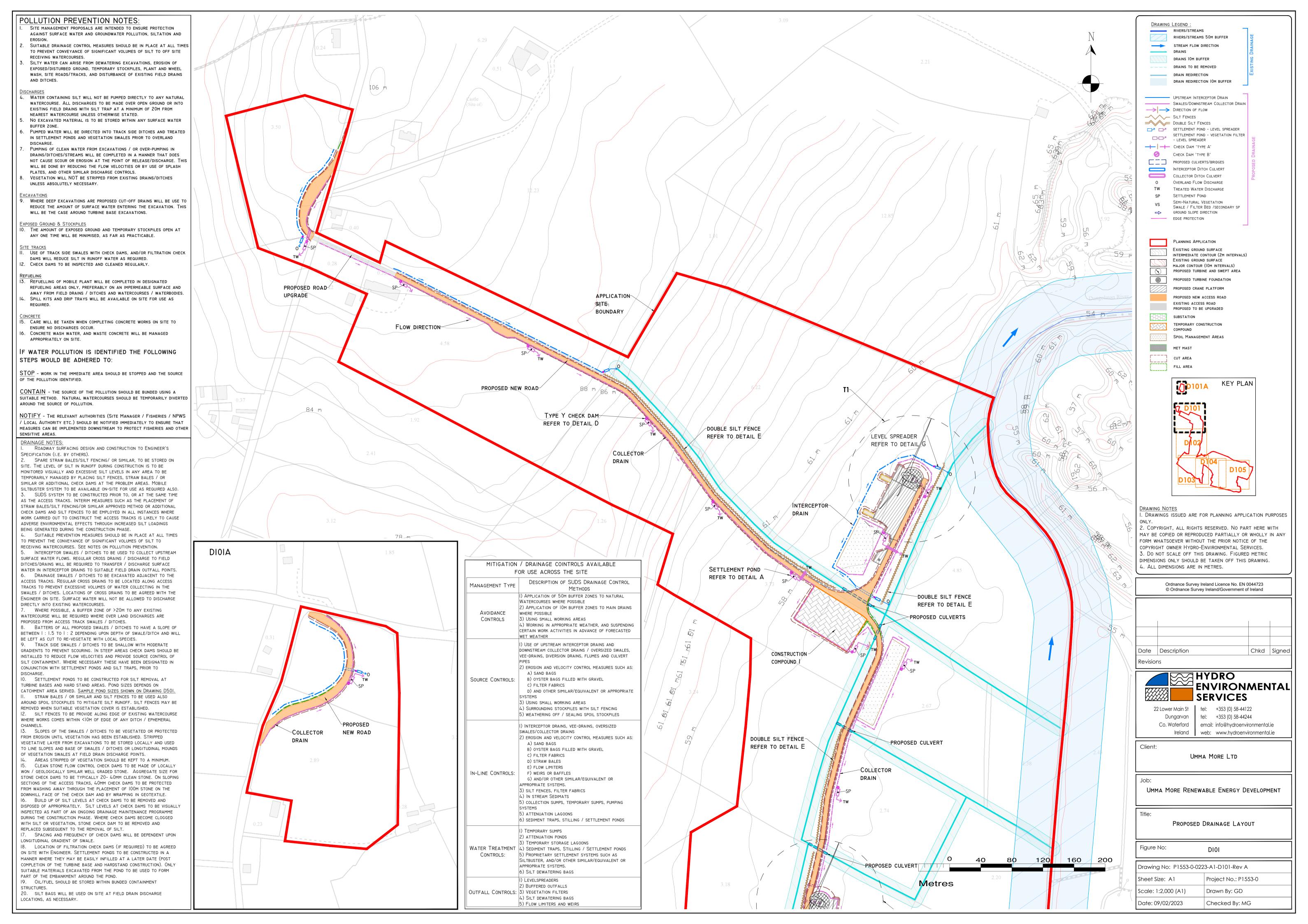
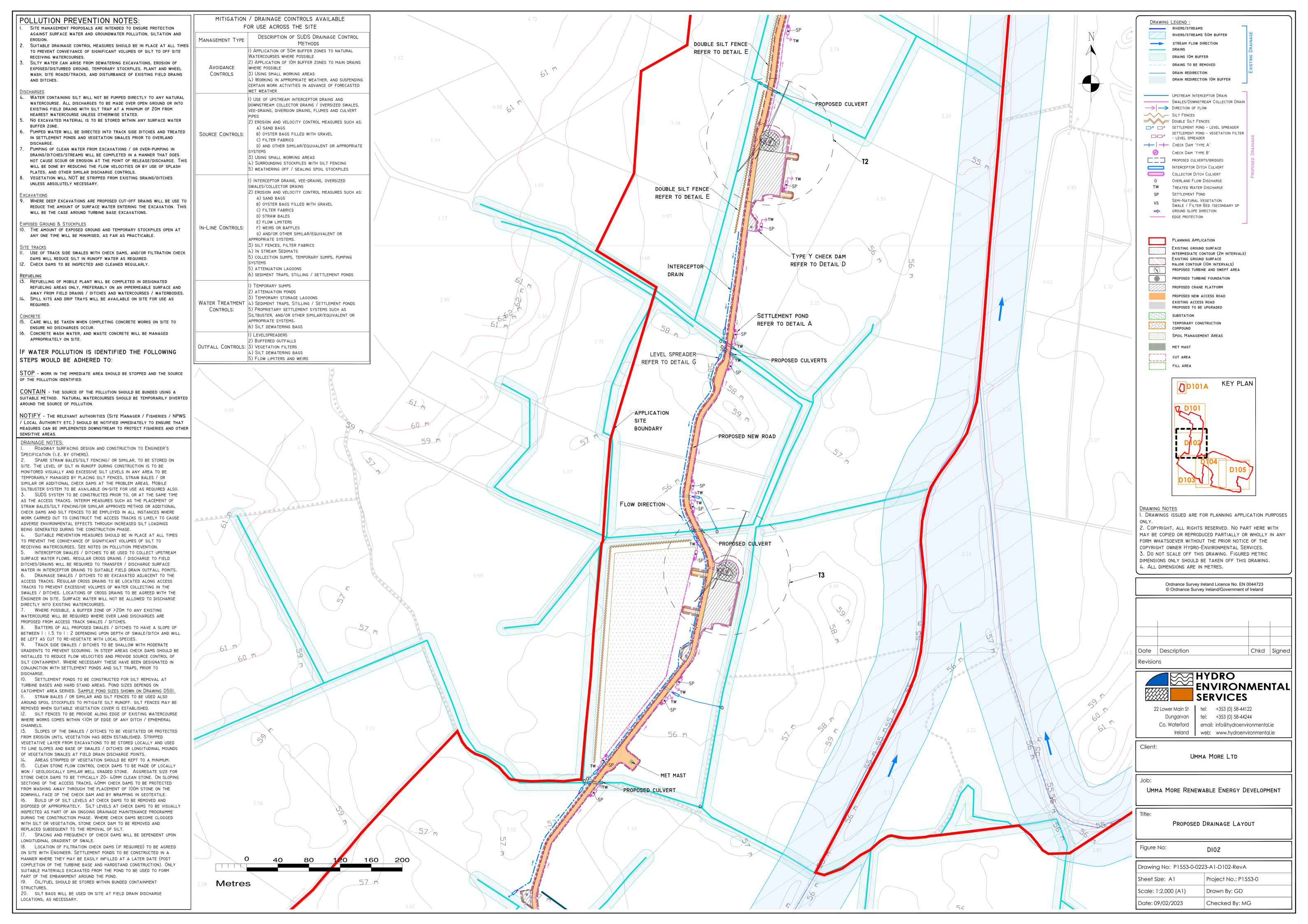


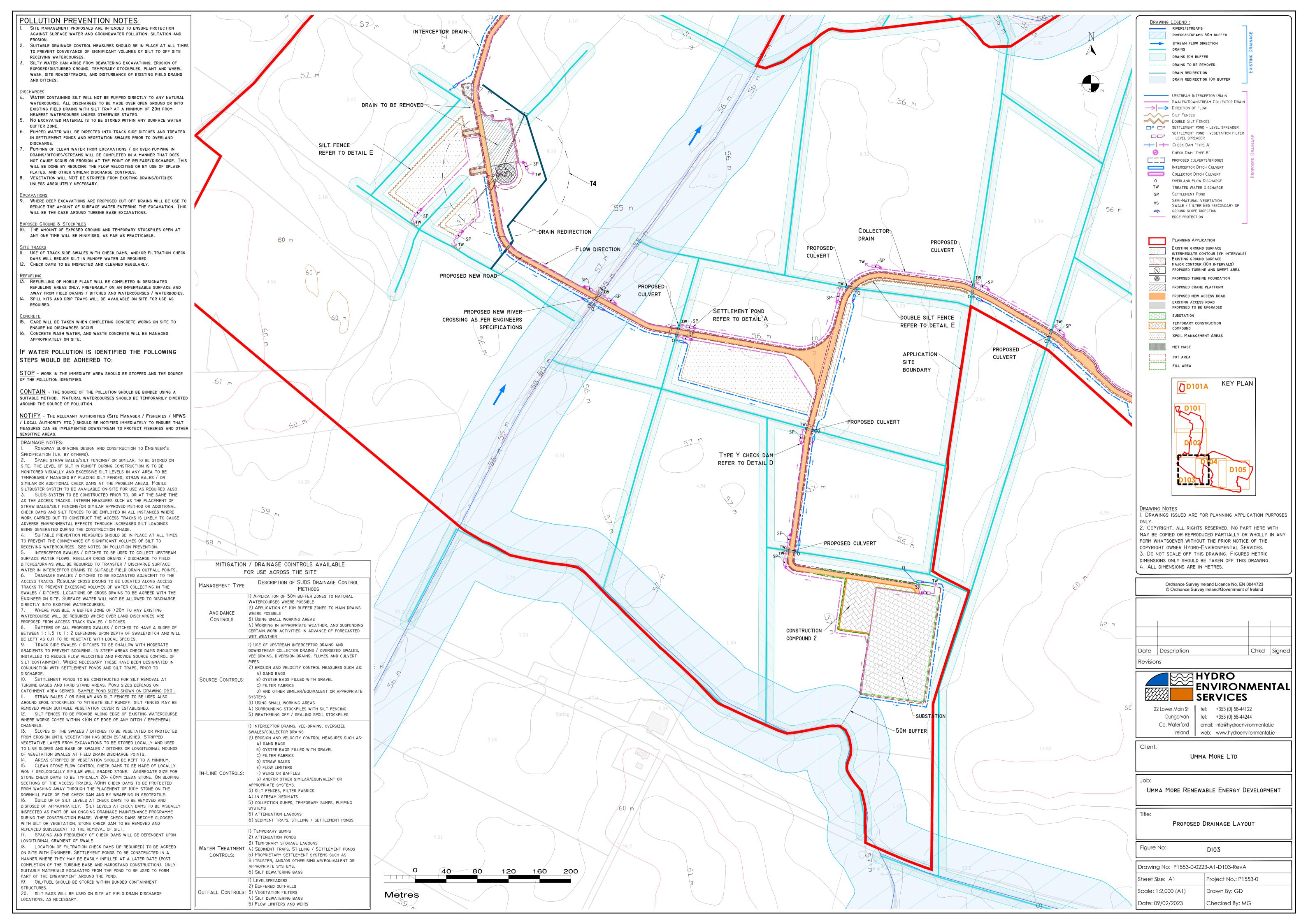


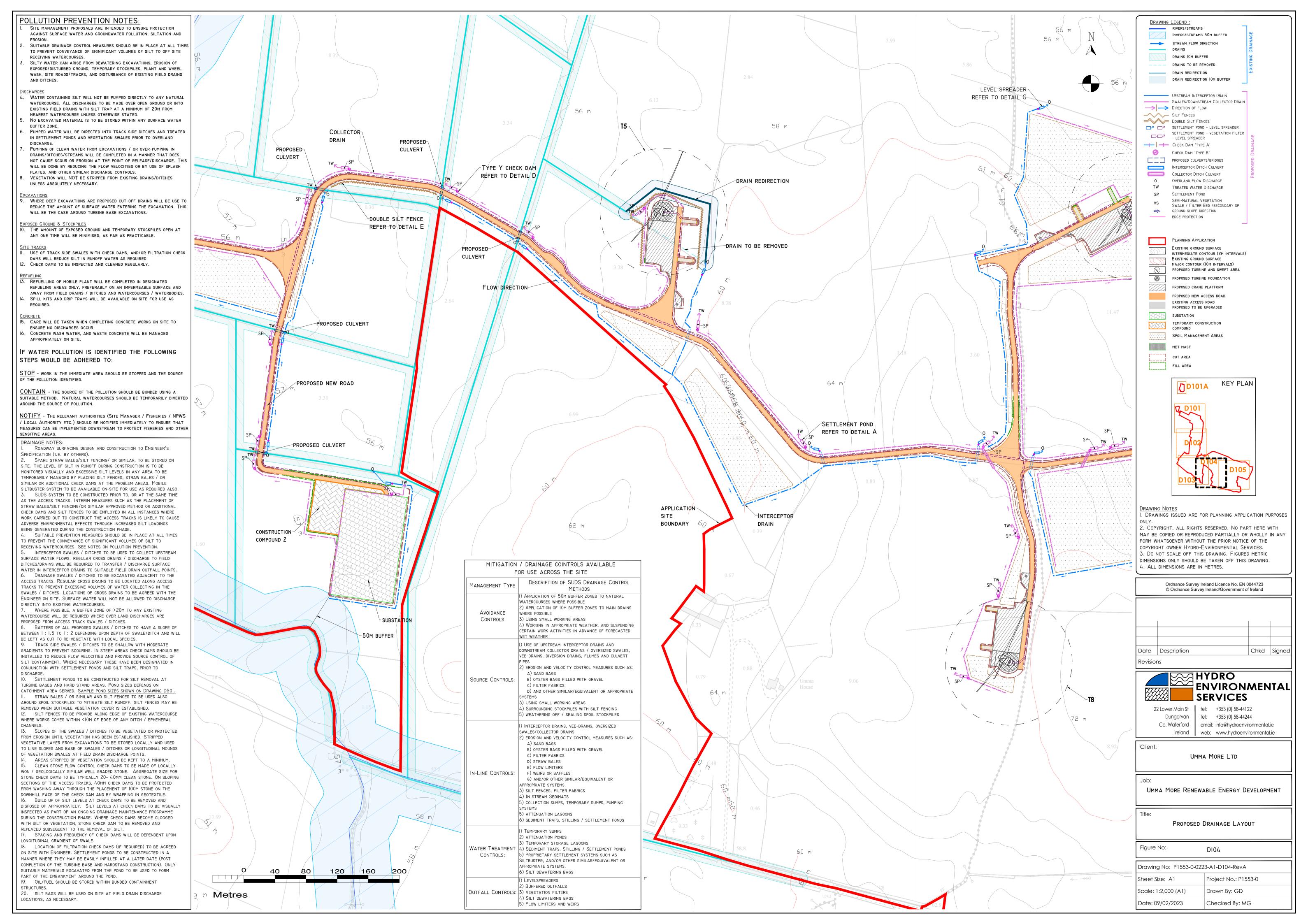
#### **APPENDIX 4**

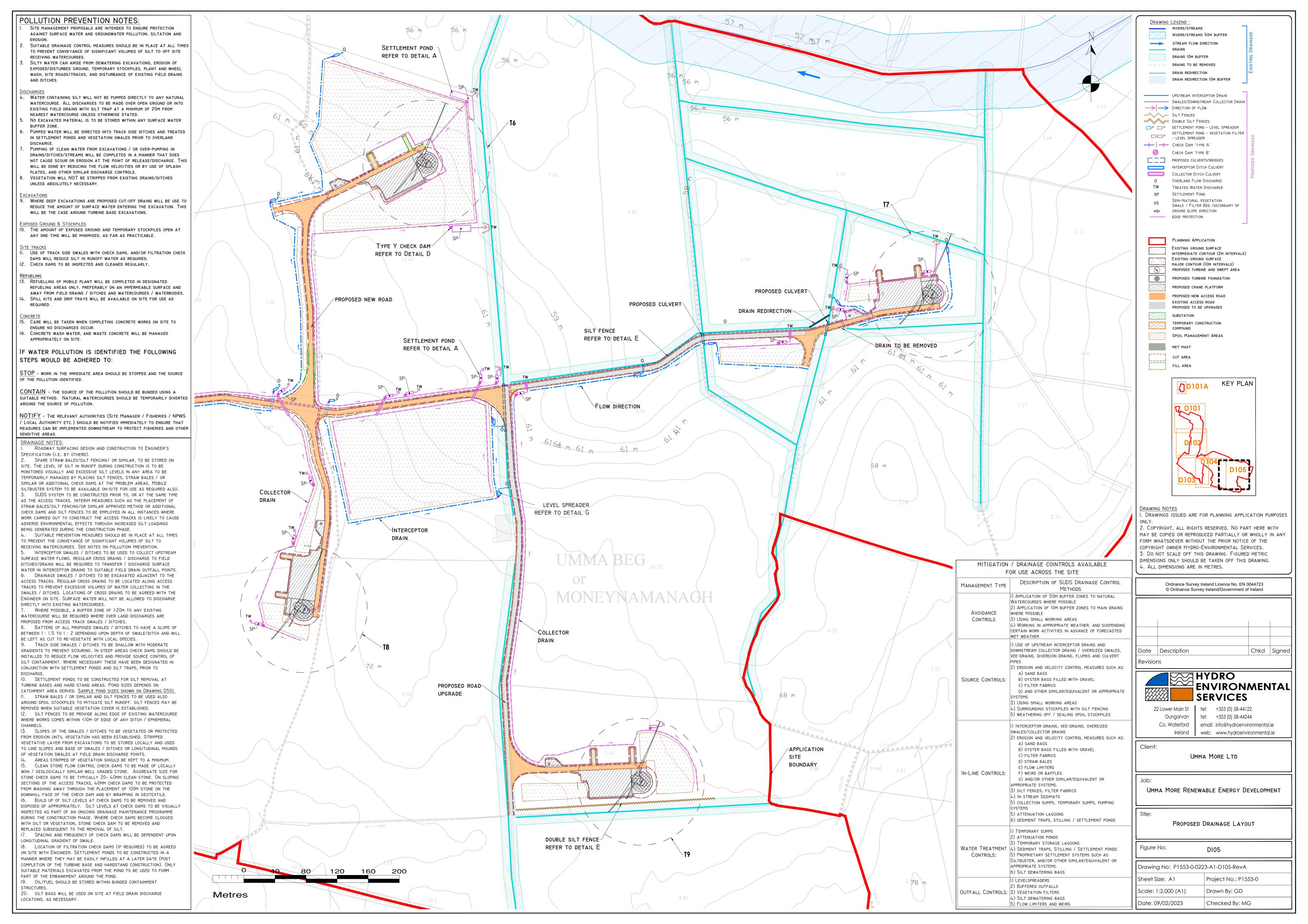
DETAILED DRAINAGE DESIGN / DRAINAGE DRAWINGS











#### ┌ GEOTEXTILE WRAP EMBEDDED INTO EMBANKMENT TO PREVENT PREFERENTIAL FLOW ALONG EDGE OF GABION BASKET FINITIAL STILLING CHECK DAM - 20-40MM FILTRATION CONSTRUCTED FROM ACCESS TRACK STONE PLACED PRIOR 20-40MM CLEAN STONE CORE WITH TO GABIONS 200MM COVER OF 100MM SINGLE SIZE STONE 10000 - DIVERT ROADSIDE DITCH INTO SETTLEMENT POND YY' OVERFLOW DISCHARGE TO COLLECTOR DITCH EXTEND BOUNDARY BERMS TO PREVENT OVERFLOW SWALE TO BE WIDENED AT ENTRY TO POND

ZZ'

#### DETAIL AI

	POND SIZE W [M] X L [M] X D [M]			CATCHMENT SIZE (M2)		
	RETURN PERIOD	10 YRS	STORM DURATION	500	1000	2000
	6HR RETENTION FOR COARSE SILT		6 HRS	1.0 x 3.5 x l m	I.25x 3.75 x I M	2.0 x 6.25 x l m
	IIHR RETENTION FOR MEDIUM SILT  24HR RETENTION FOR FINE SILT		II HRS	1.5 x 4.5 x l m	2.0 x 6.0 x I M	2.75x 8.25x I M
			24 HRS	2.25x 6.75x I M	3.0 x 9.0 x I M	4.0 x I3.0 x I M

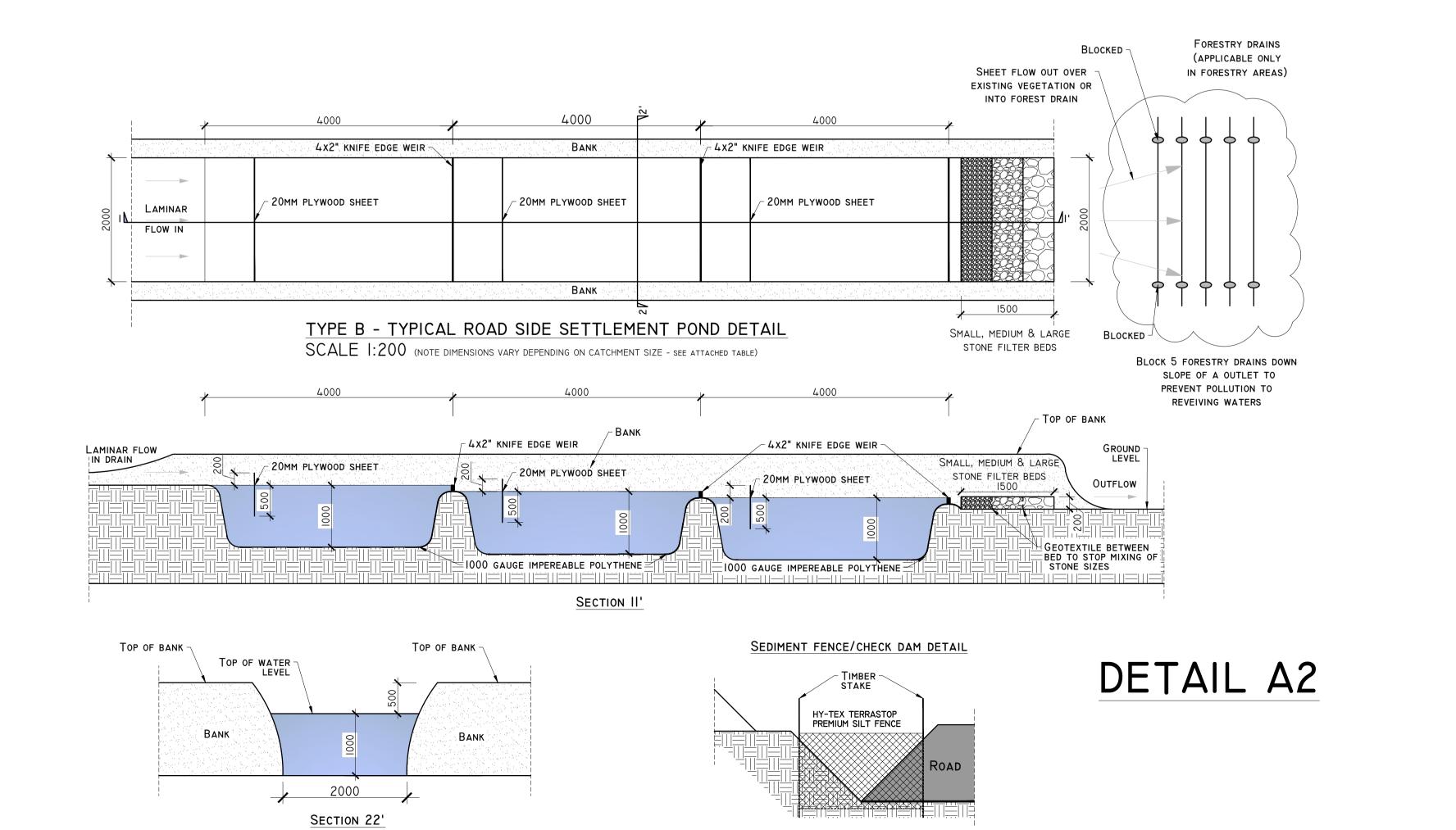
TYPE A - TYPICAL ROAD SIDE SETTLEMENT POND DETAIL SCALE 1:200 (NOTE DIMENSIONS VARY DEPENDING ON CATCHMENT SIZE - SEE ATTACHED TABLE)

EMBANKMENTS TO BE CONSTRUCTED -FROM SUITABLE EXCAVATED MATERIALS. POST CONSTRUCTION PERMENANT WATER LEVEL -PHASE EMBANKMENT MATERIALS TO OUTFLOW CONTROL LEVEL ~ GABION BASKET BE USED TO INFILL POND. TO BE SET 500MM MAIN SETTLEMENT POND PHASING OF INFILL TO BE AGREED BELOW TOP OF GABION FOREBAY TO BE CLEANED WITH SUDS DESIGNER OUT REGULARLY DISCHARGE COLLECTOR DITCH-1000 <del>▗▗▗▗▗</del>╌╌╌╌╌╬┝╎┼┟┤┼┤┼╎┼┆┼┆┼┆┼╎┼╟┼┼┼┼┼┼ ACCESS TRACK BED SLOPE 1:50MAX. · A · A . · A - INVERT OF 800 STORAGE DEPTH INLET V-DITCH - GEOTEXTILE -100mm single sized stone WRAP PLACED AT ENTRANCE TO SETTLEMENT SILT WILL COLLECT IN THE BASE OF THE DISCHARGE LEVEL POND AND AND WITHIN FOREBAY AREA SETTLEMENT POND. THIS WILL HAVE TO BE CLEANED OUT REGULARLY. SILT BUILD **SCALE 1:100** SCALE 1:100 UP SHOULD BE MONITORED ON SITE.

LI00MM SINGLE SIZED STONE

AND AND WITHIN FOREBAY AREA

PLACED AT ENTRANCE TO SETTLEMENT POND



MG MG 09/02/23 Planning Date Description Chkd Signed Revisions

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DRAINAGE DETAILS I

Figure No:

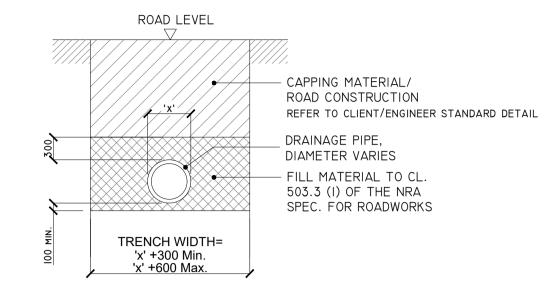
Date: 09/02/2023

Drawing No: P1553-0-0223-A1-D501-RevA Project No.: P1553-0 Sheet Size: A1 Scale: as shown (A1) Drawn By: MG/GD

D50I

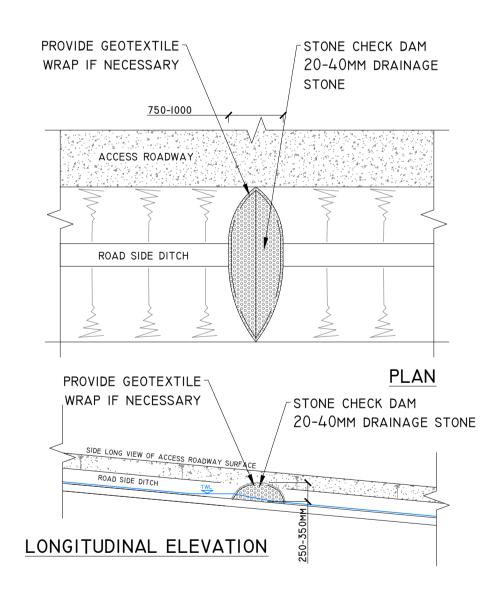
Checked By: M.G.

## DETAIL B



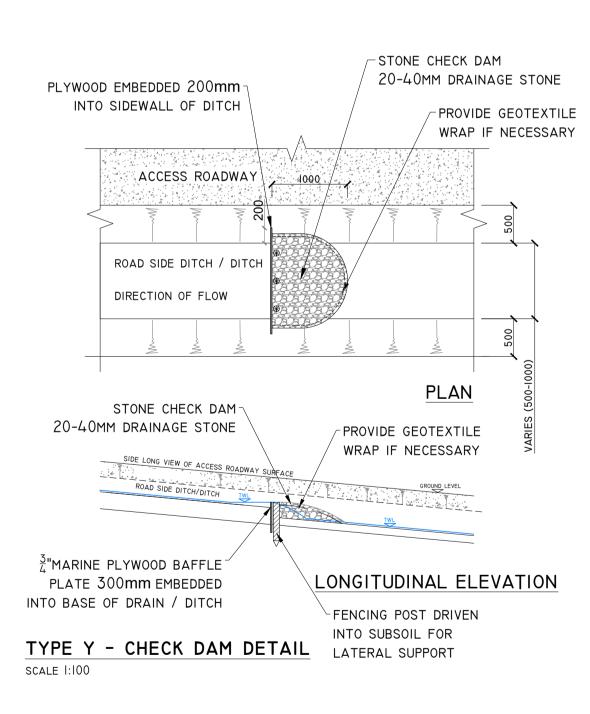
'TYPE B' CULVERT - DRAINAGE CROSSING BENEATH EXCAVATED ROAD

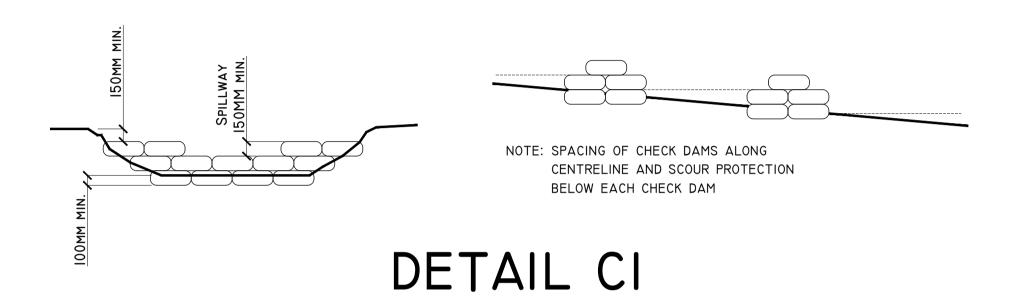
### DETAIL C

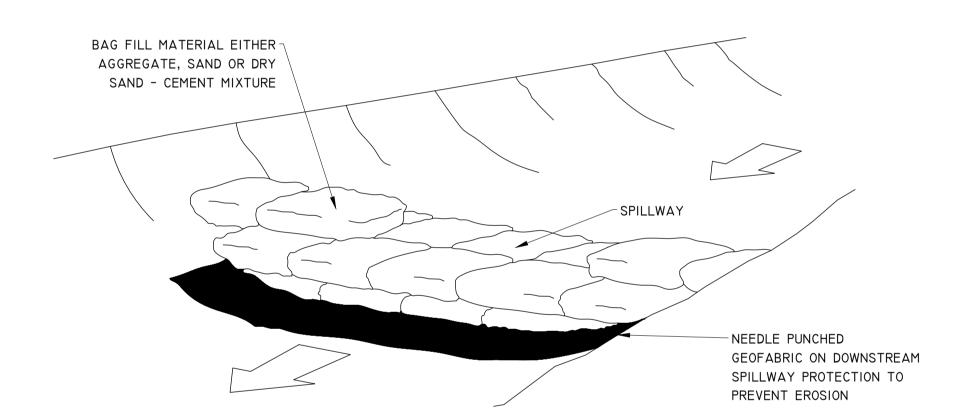


TYPE X - CHECK DAM DETAIL

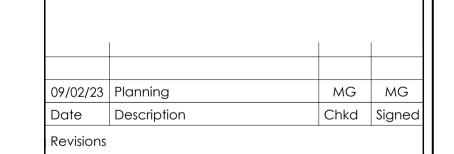
# DETAIL D







TEMPORARY CHECK DAM / SETTLEMENT POND OVERFLOW SAND FILLED BAG CONSTRUCTION SCHEMATIC - NOT TO SCALE



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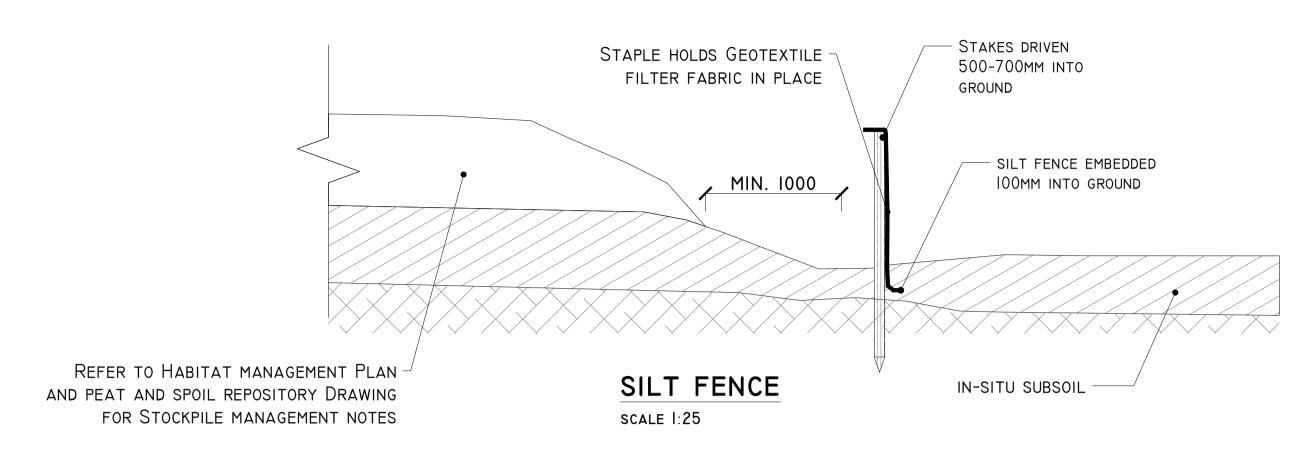
DRAINAGE DETAILS 2

Figure No: D502

Date: 09/02/2023

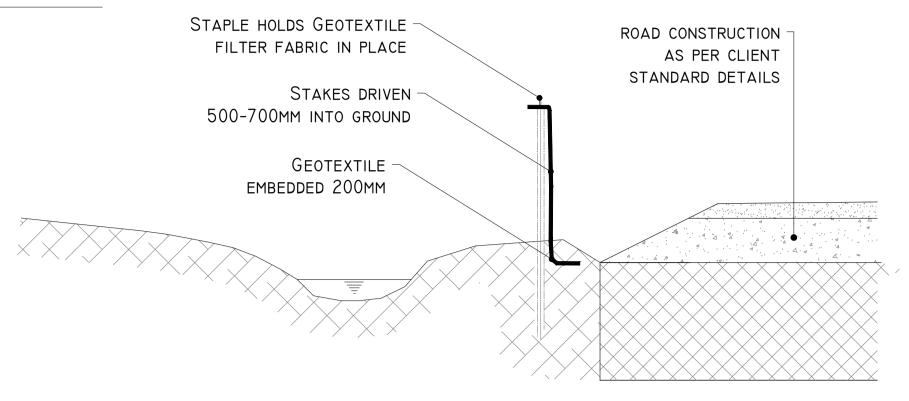
Drawing No: P1553-0-0223-A1-D502-RevA Project No.: P1553-0 Sheet Size: A1 Scale: as shown (A1) Drawn By: MG/GD Checked By: M.G.

## DETAIL EI



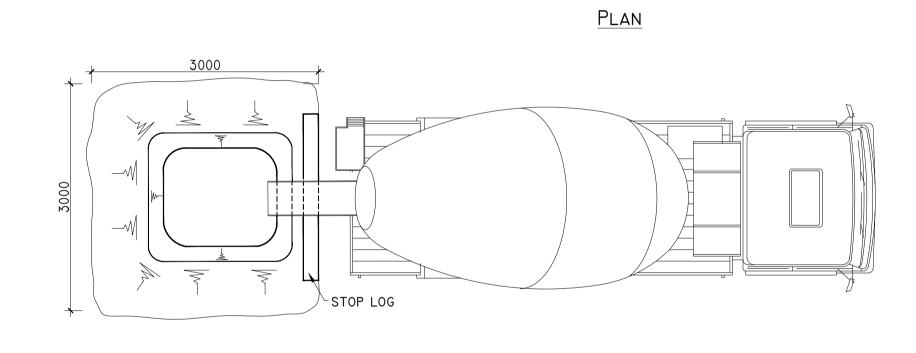
### DETAIL E2

SCALE 1:25

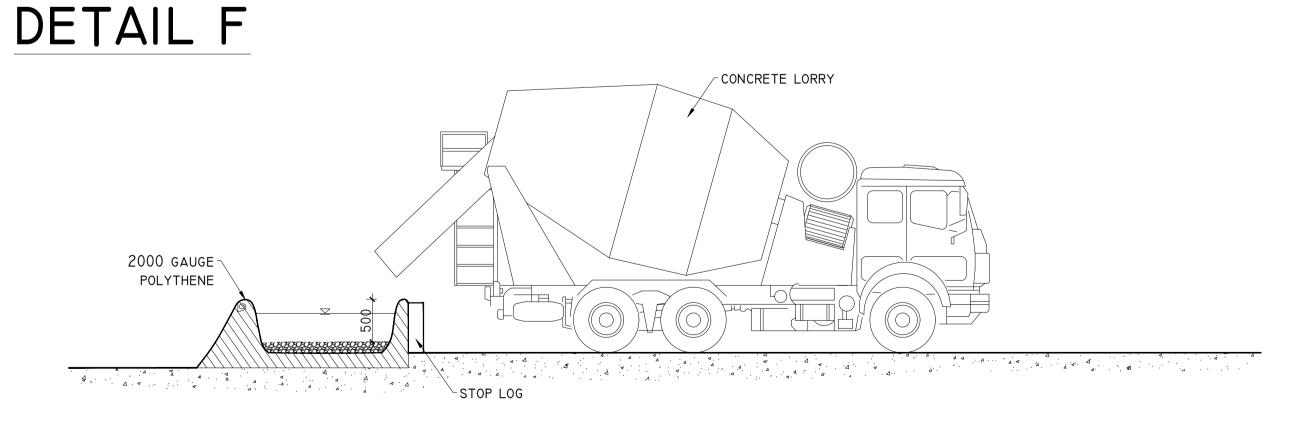


SILT FENCE FOR WATERCOURSE PROTECTION

# TEMPORARY CONCRETE WASH OUT PIT

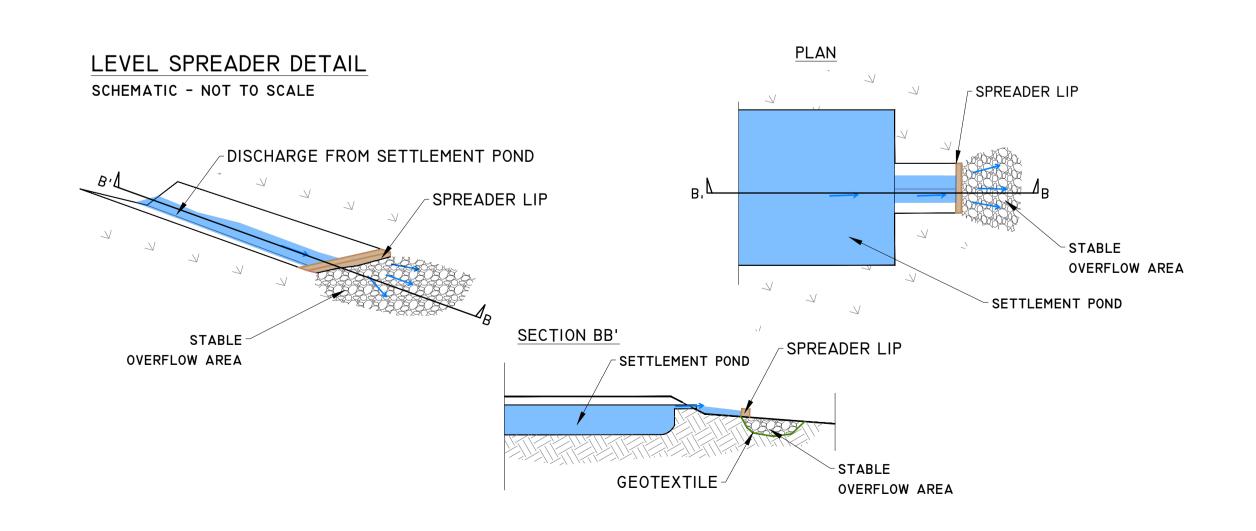


#### **ELEVATION**



#### DETAIL GI LEVEL SPREADER DETAIL SCHEMATIC - NOT TO SCALE CLEAN WATER CLEAN WATER OVERFLOW AREA SPREADER LIP (PLYWOOD SHEET) SECTION AA' OVERFLOW AREA SPREADER LIP GEOTEXTILE -STABLE

# DETAIL G2



OVEDELOW ADEA

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09/02/23	Planning	MG	MG	
Date	Description	Chkd	Signed	
Revisions				



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DRAINAGE DETAILS 3

Figure No:	D503			
Drawing No: P1553-0-0223-A1-D503-RevA				
Sheet Size: A1	Project No.: P1553-0			
Scale: as shown (A1)	Drawn Bv: MG/GD			

Date: 09/02/2023

Checked By: M.G.