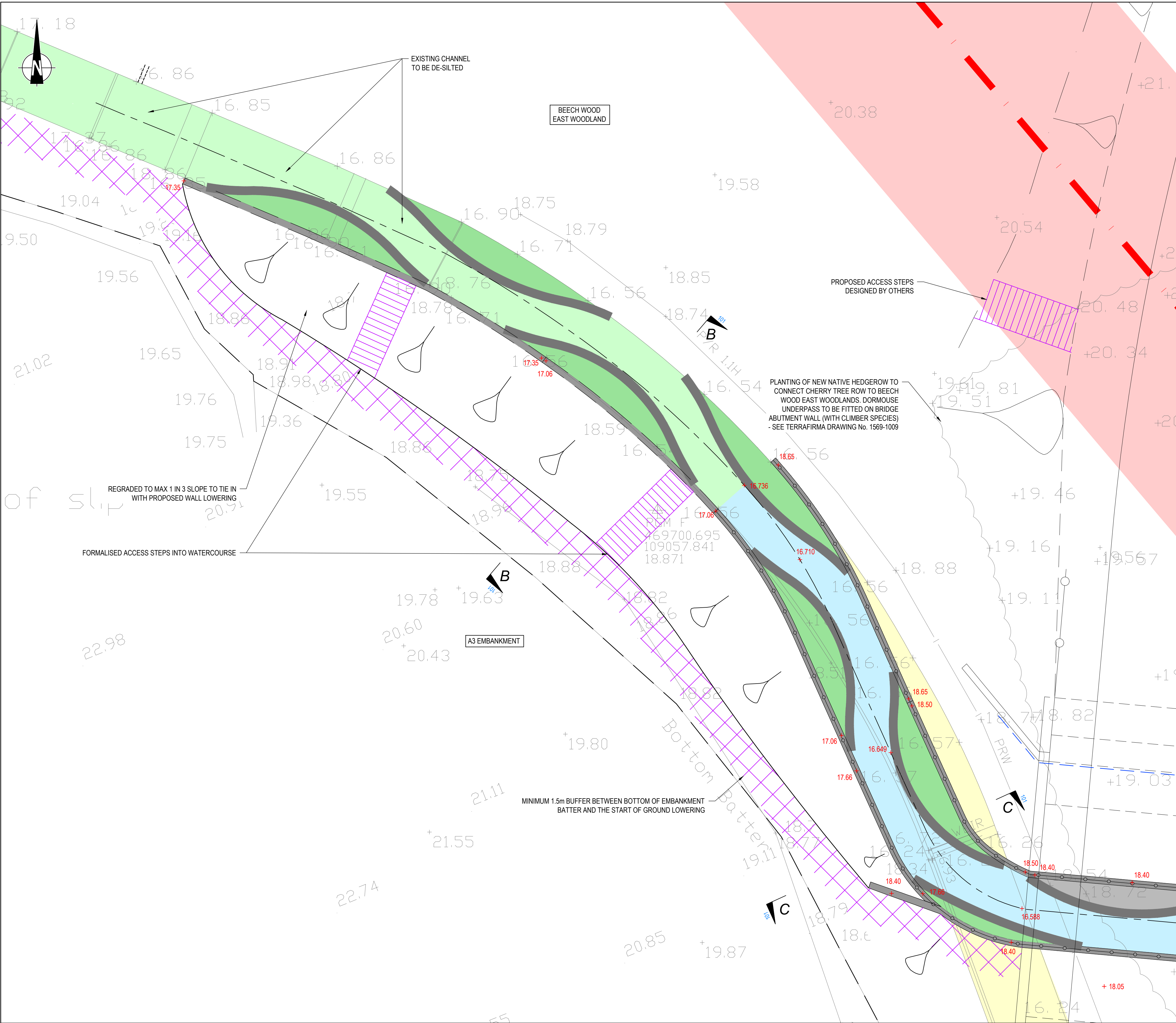
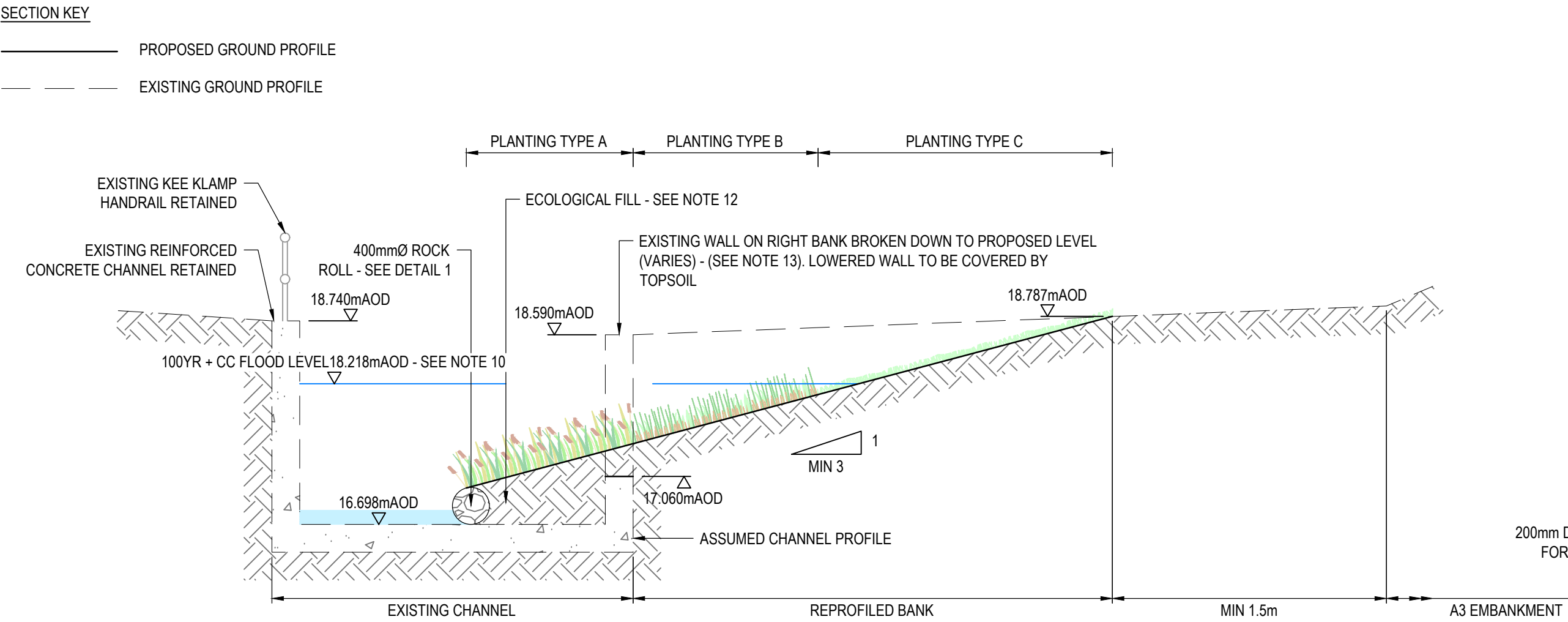
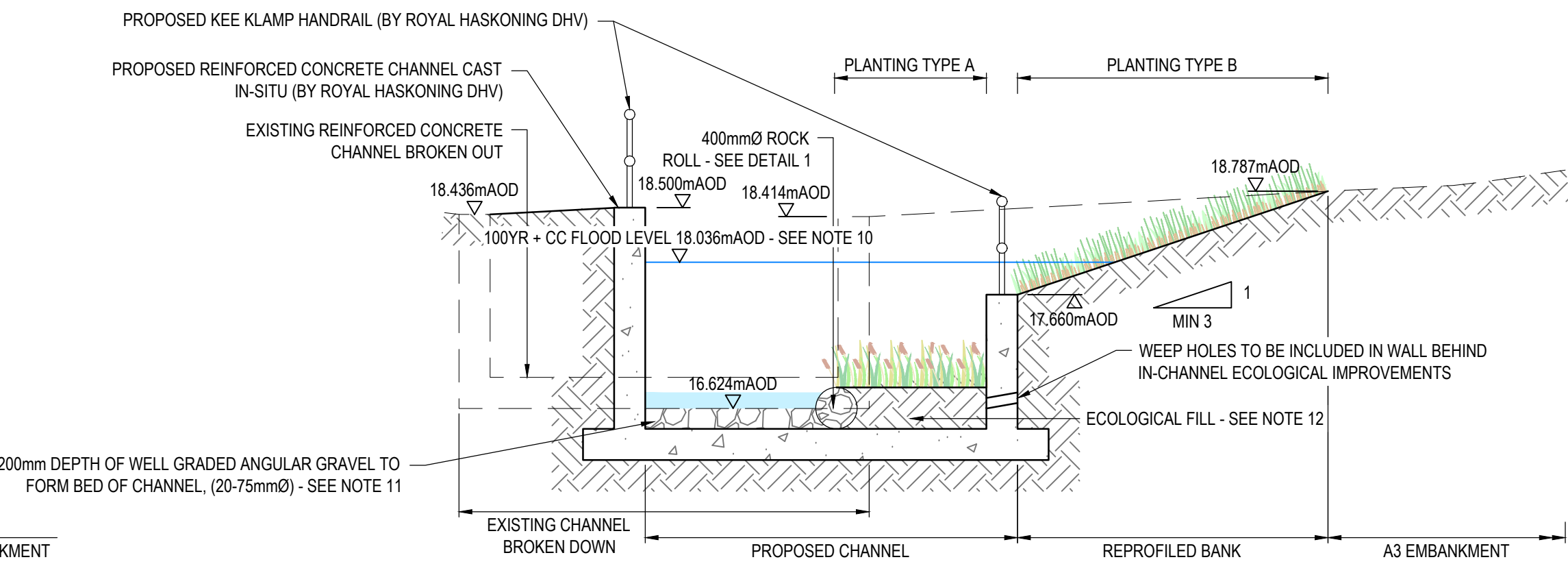




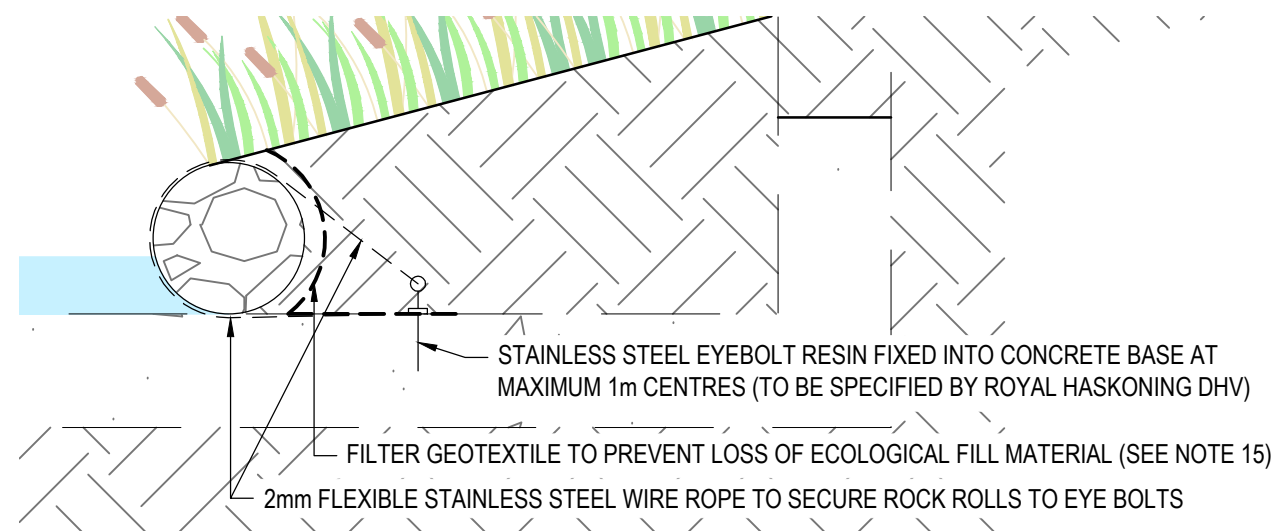
PLAN ON CHANNEL MODIFICATIONS AND ECOLOGICAL IMPROVEMENTS



SECTION B-B
1:50



SECTION C-C
1:50



ROCK ROLL AND GEOTEXTILE FIXING DETAIL

DETAIL 1
1:20

SHE BOX	
CONSTRUCTION	
HAZARD	MITIGATION
1. DE-STABILISATION OF A3 EMBANKMENT	MINIMUM 1.5m BUFFER TO BE PROVIDED BETWEEN BOTTOM OF EXISTING A3 EMBANKMENT AND ANY NEW EXCAVATION NO VEHICLE TRACKING ON THE A3 EMBANKMENT
2. DE-STABILISATION OF FLEX MSE	MAXIMUM SURCHARGE LOAD ABOVE FLEX MSE EMBANKMENTS NEVER TO EXCEED 5kN/m ² 0.5m VEHICLE TRACKING BUFFER FROM EDGE OF EMBANKMENT TO BE MAINTAINED AT ALL TIMES.
3. DAMAGE TO EXISTING 1025mm FOUL SEWER	CONTRACTOR TO LOCATE EXISTING FOUL SEWER PRIOR TO EXCAVATION IF ALIGNMENT OR DEPTH IS DIFFERENT TO THAT SHOWN ON DRAWINGS THEN CONTRACTOR SHOULD NOTIFY ENGINEER BEFORE PROCEEDING
MAINTENANCE / CLEANING / OPERATION	
1. WORKING AT HEIGHT	CONTRACTOR TO ENSURE SAFE METHOD OF WORKING FOR ALL MAINTENANCE TASKS.
2. MAINTENANCE OF CHANNEL AT BED LEVEL, WITHIN WATERCOURSE	CONTRACTOR'S SAFE METHOD OF WORKING TO CONSIDER (BUT NOT LIMITED TO): • SAFE ACCESS; • WEATHER AND STREAM FLOW CONDITIONS; • COLLECTION OF VEGETATION DEBRIS.
3. CHANNEL BECOMING OVERGROWN, INCREASING FLOOD RISK DUE TO REDUCED CONVEYANCE	MAINTENANCE SCHEDULE TO BE ADHERED TO.
4. HIGH BANKS ABOVE WATERCOURSE	FENCING TO PROVIDE BARRIER TO WATERCOURSE WITH ACCESS POINTS PROVIDED FOR MAINTENANCE ACCESS.
5. DAMAGE TO GEOTEXTILE BEHIND FLEX MSE	CONTRACTOR TO ENSURE ANY FUTURE EXCAVATION DOES NOT DAMAGE GEOTEXTILE ANCHORS FOR FLEX MSE.
6. DAMAGE TO FLEX MSE	VEGETATION STRIPPING TO AVOID DAMAGE TO GEOTEXTILE BAGS.
DEMOLITION / DECOMMISSIONING	
1. EMBANKMENTS BECOMING UNSTABLE DUE TO OVER EXCAVATION OF TOE (A3 EMBANKMENT, FLEX MSE).	1.5m BUFFER TO BE MAINTAINED AS A MINIMUM FROM TOE OF A3 EMBANKMENT.
2. AS CONSTRUCTION HAZARD 3	
3. AS MAINTENANCE HAZARD 5	



PHOTO 1
LOCATION OF EXISTING OUTFALL ON THE LEFT BANK

- KEY:**
- + 18.05 PROPOSED GROUND LEVELS
 - PROPOSED WATERCOURSE REALIGNMENT
 - ABANDONED CHANNEL
 - EXISTING WATERCOURSE TO REMAIN
 - EXISTING 1.025m FOUL WATER SEWER
 - 7m SEWER EASEMENT (CONFIRMED)
 - IN-CHANNEL IMPROVEMENTS - ROCK ROLLS
 - IN-CHANNEL IMPROVEMENTS - PLANTING
 - IN-CHANNEL IMPROVEMENTS - GRAVEL FILL (20-75mmØ)
 - PEDESTRIAN ACCESS - MINIMUM 1.5m WIDTH (SELF-BINDING GRAVEL)
 - PROPOSED ACCESS STEPS
 - DORMOUSE UNDERPASS (ATTACHED TO BRIDGE ABUTMENT)
 - PROPOSED KEE KLAMP HANDRAIL
- NOTES:**
- TO BE READ IN CONJUNCTION WITH ALL OTHER RELATED PBA DRAWINGS. DRAWING NUMBERS 30142/4001/100-110.
 - ALL LEVELS ARE IN METRES AND RELATIVE TO ORDNANCE DATUM (NEWLYN).
 - TOPOGRAPHIC SURVEY TAKEN FROM ROYAL HASKONING DRAWING PB2348-SK-03 DATED NOVEMBER 2014.
 - BRIDGE ALIGNMENT TAKEN FROM ROYAL HASKONING DRAWING PB2348-P-05-D1 DATED FEBRUARY 2015.
 - LOCATION OF 1025mm SEWER CONFIRMED ON SITE. CO-ORDINATES FOR CENTERLINE OF SEWER PROVIDED BY VOLKER FITZPATRICK IN EMAIL DATED 14TH JANUARY 2015.
 - DUNSBURY HILL FARM DEVELOPMENT PROPOSALS TAKEN FROM BAM DESIGN DRAWING 4330-STRU-2517 DATED JANUARY 2015.
 - TREE SURVEY TAKEN FROM ATKINS DRAWING DHF5IATK-TP30-XX-DR-L-0101 DATED JANUARY 2014.
 - DRAINAGE FROM ATTENUATION POND AND FOUL SEWER TAKEN FROM ROYAL HASKONING DRAWING PB2348-500-02 D2 DATED 21.01.15.
 - PROPOSALS HAVE BEEN DESIGNED IN ACCORDANCE WITH ECOLOGISTS RECOMMENDATIONS.
 - 1 IN 100 YEAR + 30% ALLOWANCE FOR CLIMATE CHANGE MODELLED FLOOD LEVEL TAKEN FROM ATKINS MODEL HERMITAGE, 100YR+30%CC, NEW2 +N.DAT. FLOOD LEVELS QUOTED HAVE BEEN INTERPOLATED FROM THE MODEL AND ARE THEREFORE APPROXIMATE.
 - LOCALLY SOURCED WELL GRADED ANGULAR GRAVEL 20-75mmØ TO FORM BED OF CHANNEL. PLACEMENT OF STONE TO AVOID COMPACTION - SEE PBA DRAWING No. 30142/4001/110 FOR SPECIFICATION.
 - SITE-WON MATERIAL TO BE REUSED FROM ELSEWHERE ALONG THE STREAM WHERE POSSIBLE BEHIND THE ROCK ROLLS/COIR FIBRE ROLLS OR AQUATIC SOIL (MEDIUM TO HEAVY LOAM WITH SLOW RELEASE FERTILISER) AT A DEPTH OF 200-300mm, WITH FINE WOVEN HESSIAN (BIODEGRADABLE) WRAPPING BEHIND THE COIR AND CONTAINING THE SOIL.
 - MODIFICATIONS TO EXISTING WALL AND MAKING GOOD TO BE SPECIFIED BY ROYAL HASKONING DHV.
 - SEE TERRAFIRMA DRAWING No. 1569-1009 FOR PLANTING TYPES.
 - REFER TO DRAWING No. 30142/4001/110 FOR FILTER GEOTEXTILE SPECIFICATION.

D	NOTES AMENDED	smr	10.07.15	NK
C	NOTE 12 AMENDED	smr	12.06.15	NK
B	MINOR AMENDMENTS	smr	09.06.15	SA
A	CHANNEL ALIGNMENT AND WORKS TO EXISTING WALLS AMENDED	AEW	07.05.15	NK
Mark	Revision	Drawn	Date	Ch

SCALING NOTE: Do not scale from this drawing. If in doubt, ask.

UTILITIES NOTE: The position of any existing public or private sewers, utility services, plant or apparatus shown on this drawing is believed to be correct, but no warranty to this is expressed or implied. Other such plant or apparatus may also be present but not shown. The Contractor is therefore advised to undertake his own investigation where the presence of any existing sewers, services, plant or apparatus may affect his operations.

Drawing Issue Status				
FOR APPROVAL				
DUNSBURY HILL FARM, HAVANT				
PROPOSED CHANNEL REALIGNMENT MODIFICATIONS TO EXISTING CONCRETE CHANNEL				

Client		 Offices throughout the UK and Europe www.peterbrett.com © Peter Brett Associates LLP READING Tel: 0118 950 0761		
PORTSMOUTH CITY COUNCIL				
Date of 1st Issue	Drawn by			
17.02.2015	smr			
B1 Scale	Checked by			
AS SHOWN	SAN			
Drawing Number	Revision			
30142/4001/101	D			