

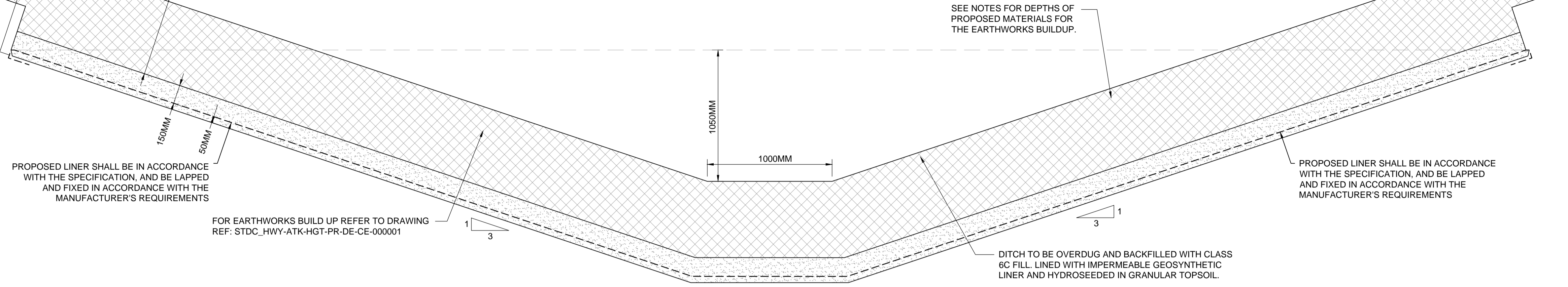
DO NOT SCALE

Millimetres  
100  
10  
0

### HOLME BECK DITCH DETAIL (LINED)

(1:3 SIDE SLOPE)

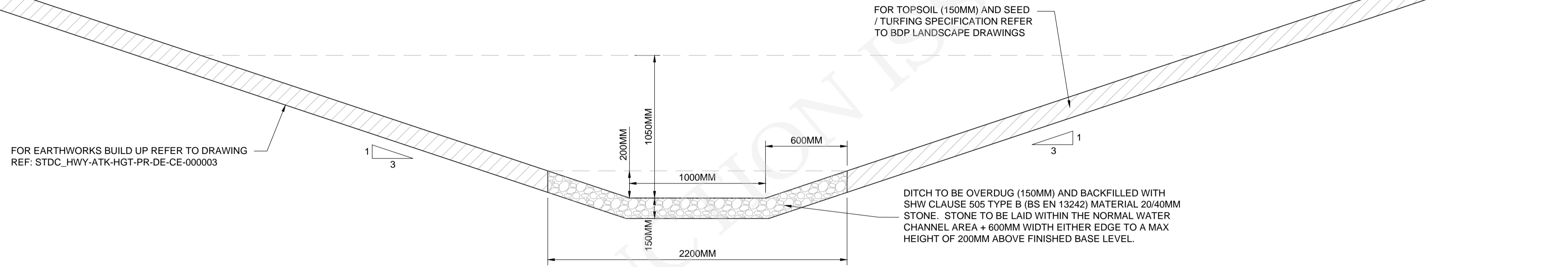
SCALE: N.T.S.



### HOLME BECK DITCH DETAIL (UN-LINED)

(1:3 SIDE SLOPE)

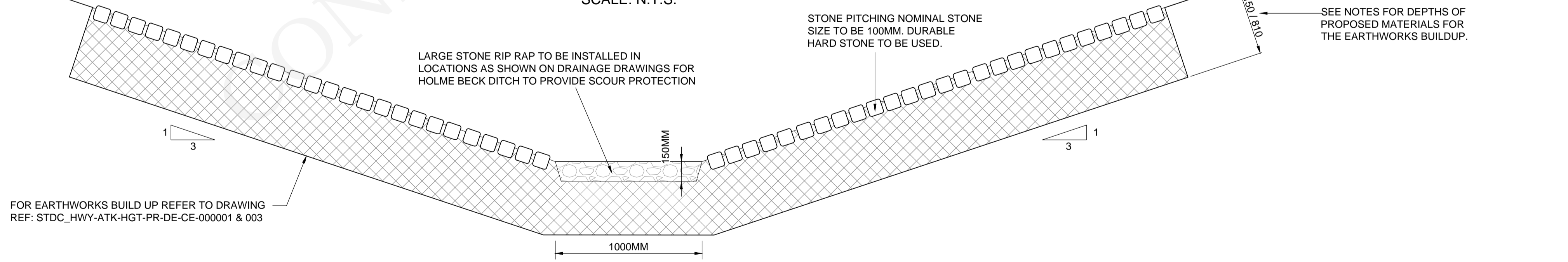
SCALE: N.T.S.



### HOLME BECK SCOUR PROTECTION DETAIL

(1:3 SIDE SLOPE)

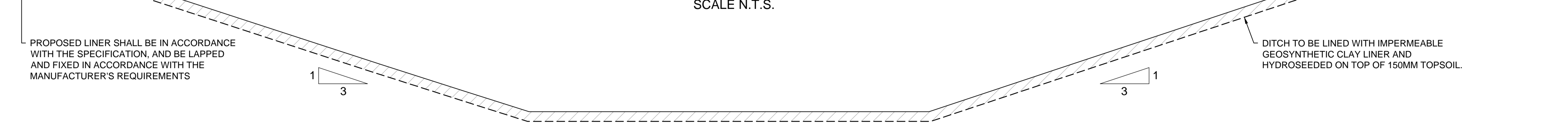
SCALE: N.T.S.



### DETENTION BASIN DETAIL

(1:3 SIDE SLOPE)

SCALE N.T.S.



**NOTES:**

- DO NOT SCALE FROM THIS DRAWING.
- FOR HIGHWAY DRAINAGE DETAILED KEY & NOTES REFER TO DRAWING: STDC\_HWY-ATK-HDG-PR-DR-CD-000001.
- FOR HIGHWAY DRAINAGE LAYOUT REFER TO DRAWINGS: STDC\_HWY-ATK-HDG-PR-DE-CD-000002 TO 010.
- FOR HOLME BECK WATERCOURSE LAYOUT AND STANDARD DETAILS REFER TO DRAWINGS: STDC\_HWY-ATK-HDG-PR\_XS-DE-CD-000001 TO 003.
- REFER TO DESIGN RISK REGISTER: XXXXX
- ALL DIMENSIONS ARE INDICATIVE AND ARE TO BE CONFIRMED PRIOR TO CONSTRUCTION ISSUE.
- CULVERT SECTION IS BASED UPON AGREED LEAD LOCAL FLOOD AUTHORITY (RCBC) DIMENSIONS.
- HEADWALL (INLET & OUTLET) ARRANGEMENT TO BE DETERMINED AS CONTRACTOR DESIGNED. ALLOWANCE SHOULD BE MADE FOR GRADIENT OF WATERCOURSE EARTHWORKS TIE-INS AS SHOWN.
- DETAILED DESIGN MAY CHANGE PARAMETERS. CONFIRMATION OF LEVELS TO BE PROVIDED UPON COMPLETION OF EXISTING DRAINAGE SURVEYS AND SUBSEQUENT DESIGN OF THE PROPOSED HOLME BECK WATERCOURSE.
- DITCH SHALL BE OVERDUG DURING CONSTRUCTION AND BACKFILLED WITH THE PROPOSED MATERIALS BELOW TO COUNTERACT POTENTIAL FLOTATION FORCES.
- IMPERMEABLE LINER TO BE LAPPED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS TO PREVENT MOVEMENT.
- TO BE READ IN CONJUNCTION WITH THE DRAINAGE AND EARTHWORKS SPECIFICATIONS.

EARTHWORKS FILL MAKEUP	
BULK FILL 17KN	610MM CLASS C MATERIAL
TOPSOIL	150MM GRANULAR LAYER (CLAUSE 503.3)
SAND	50MM SHARP SAND

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
ISSUED FOR REVIEW AND COMMENT	S3	PO1	CE	JR	MT	---	06/02/21
ISSUED FOR PIPED CULVERT APPROVAL TO RCBC / STDC	A1	CO1	MT	DS	MT	DS	14/05/21
UPDATED FOR PRE-CONSTRUCTION CHANGES	A3	CO2	MT	DS	DMA	DS	21/05/21

APPROVED - CONSTRUCTION A3

**ATKINS**  
 Member of the SNC-Lavalin Group  
 Dunedin House  
 Columbia Drive  
 Stockton-on-Tees  
 Cleveland  
 TS17 6BJ  
 Tel: +44 (0)1642 525200  
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**TEESWORKS**  
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Client: SOUTH TEES DEVELOPMENT CORPORATION  
 Drawing Title: DETAILED DESIGN of ESTON ROAD HIGHWAYS SCHEME HOLME BECK WATERCOURSE DITCH AND DETENTION BASIN STANDARD DETAIL

Drawing Number: STDC\_HWY - ATK - HDG - PR - DE - CD - 000002  
 Project: PR - DE - CD - 000002  
 Location: Type: Role: Number: 2 of 3  
 Original Size: A1 Scale: AS SHOWN Project Ref. No.: 5198022 Sheet: 2 of 3 Rev: C02