

NOTE: TRENCH ANCHOR IS REQUIRED TO PREVENT UNDERMINING FROM SURFACE WATER AND PROVIDE A NEAT EDGE TERMINATION (ANCHOR TRENCH DIMENSIONS ARE INDICATIVE AND MAY VARY ACCORDING TO THE GROUND CONDITIONS AND PROFILE GEOMETRY)

DO NOT SCALE

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES (MM) AND ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (AOD) UNLESS STATED OTHERWISE
- DIMENSIONS AND LEVELS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF THE WORKS
- DITCH LINER TO BE GEOSYNTHETIC CEMENTITIOUS COMPOSITE CANVAS LINER
- DESIGN SPECIFICATION BASED ON:
 - GEOSYNTHETIC CEMENTITIOUS COMPOSITE CANVAS LINER
 - THICKNESS 8MM
 - DRY DENSITY: 12KG/M²
 - COMPRESSIVE STRENGTH (ASTM C109 - 02 (INITIAL CRACK)): 40MPA
 - ABRASION RESISTANCE (DIN 52108): MAX 0.1GCM²
 - MANNING'S VALUE (ASTM D6460): N=0.011
 - CHEMICAL RESISTANCE
 - RESISTANCE TO PRO-CARBON SULPHATE
 - RESISTANCE TO EN (4): CANVAS LINER TO PASS
 - MINIMUM REQUIREMENTS
 - AGE TESTING - FREEZE-THAW, SOAK-DRY, HEAT-RAIN, WATER IMPERMEABILITY
 - (BS EN 12467:2004) CANVAS LINER TO PASS MINIMUM REQUIREMENTS
- REFER TO MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION DETAILS

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

NOTES BELOW ARE ADDITIONAL TO HAZARD RISKS NORMALLY ASSOCIATED WITH THIS TYPE OF WORK

CONSTRUCTION

RISK ID: NO SIGNIFICANT RISKS IDENTIFIED

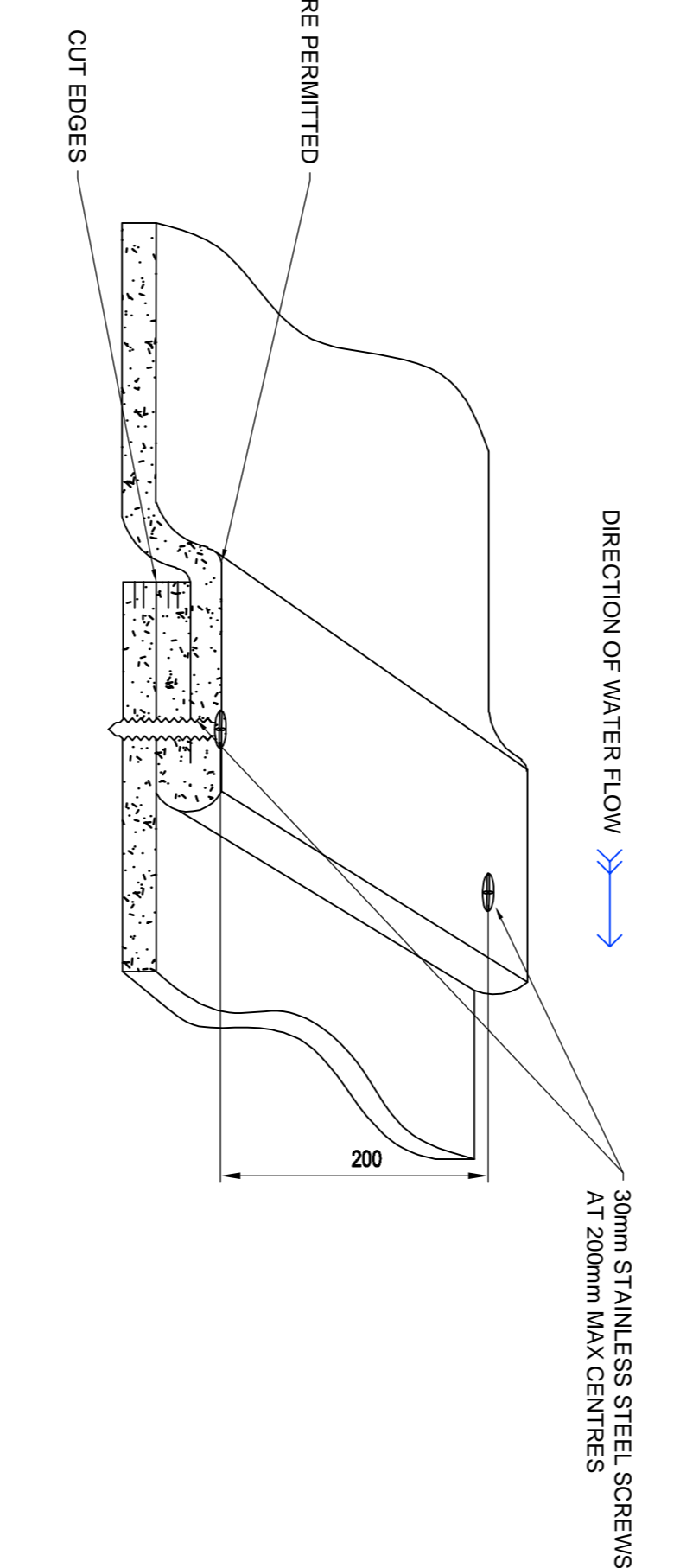
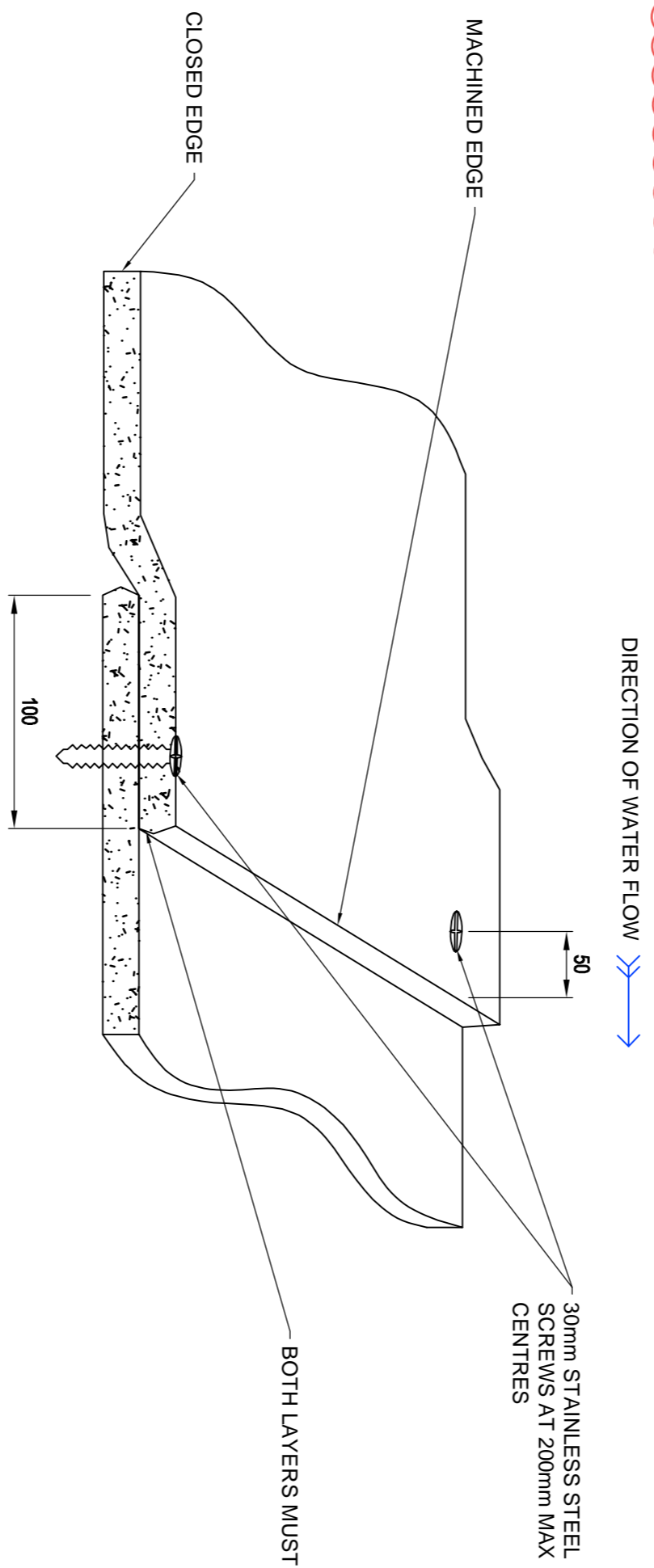
OPERATIONS & MAINTENANCE

RISK ID: NO SIGNIFICANT RISKS IDENTIFIED

DISMANTLING / DEMOLITION (FUTURE)

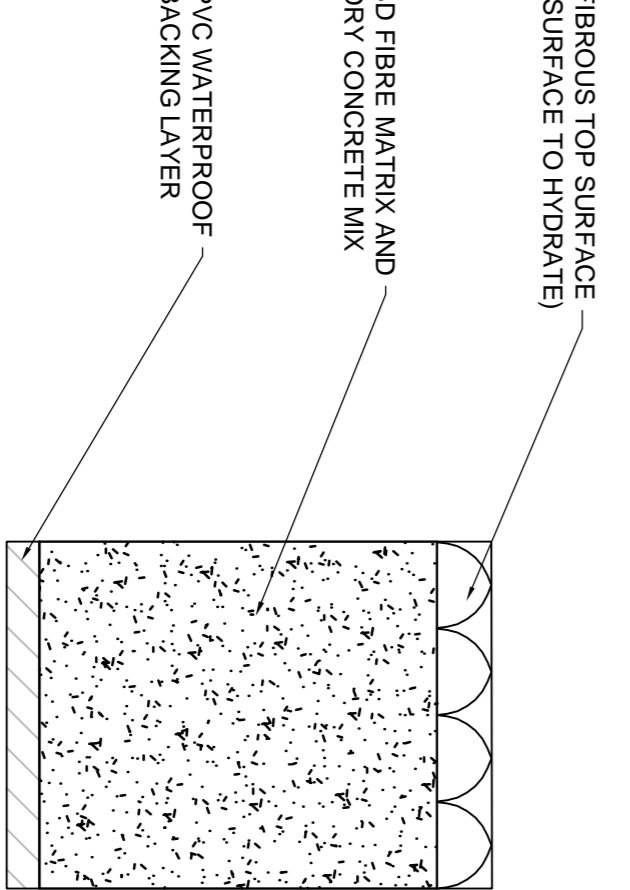
RISK ID: NO SIGNIFICANT RISKS IDENTIFIED

REFER TO THE GENERAL NOTES, THE SCHEDULE OF SIGNIFICANT RESIDUAL RISKS (T47) AND THE PRINCIPAL CONTRACTOR FOR MORE INFORMATION.

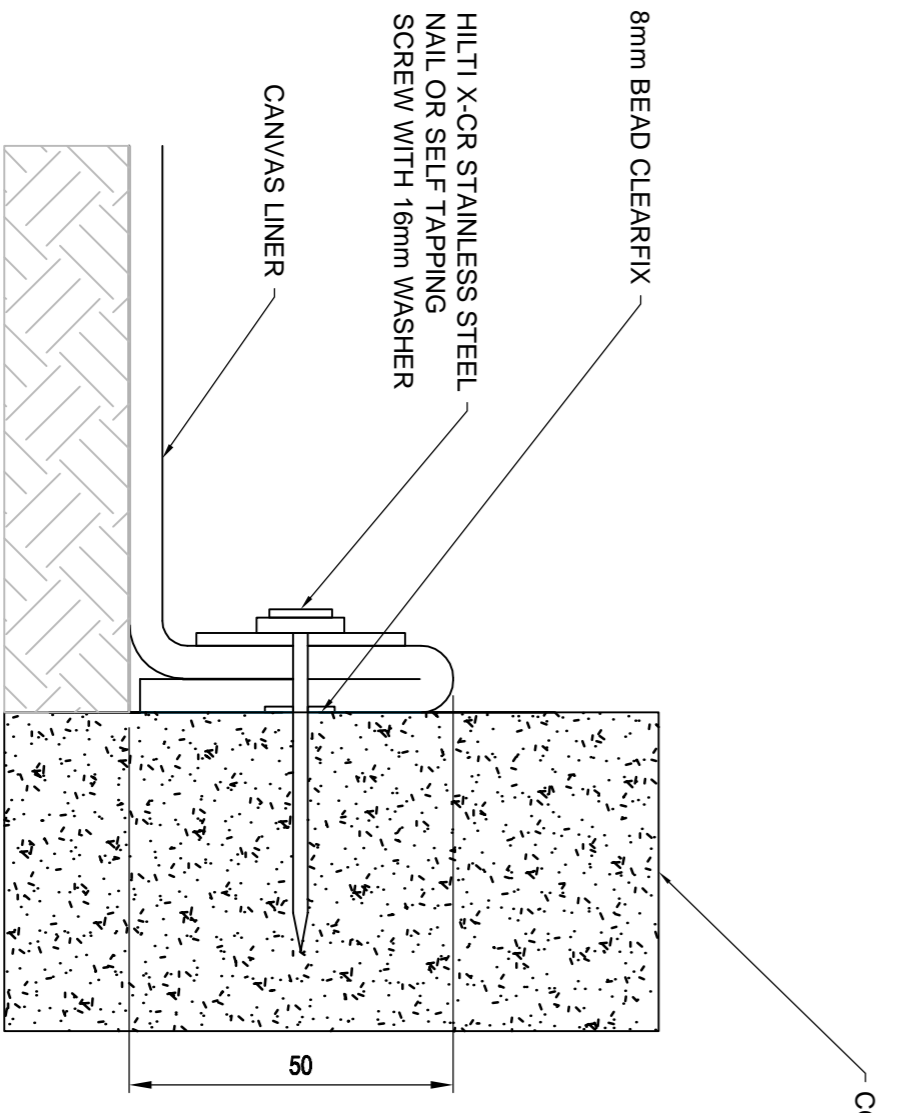


CANVAS DITCH LINING SCREWED OVERLAP JOINT
NOT TO SCALE

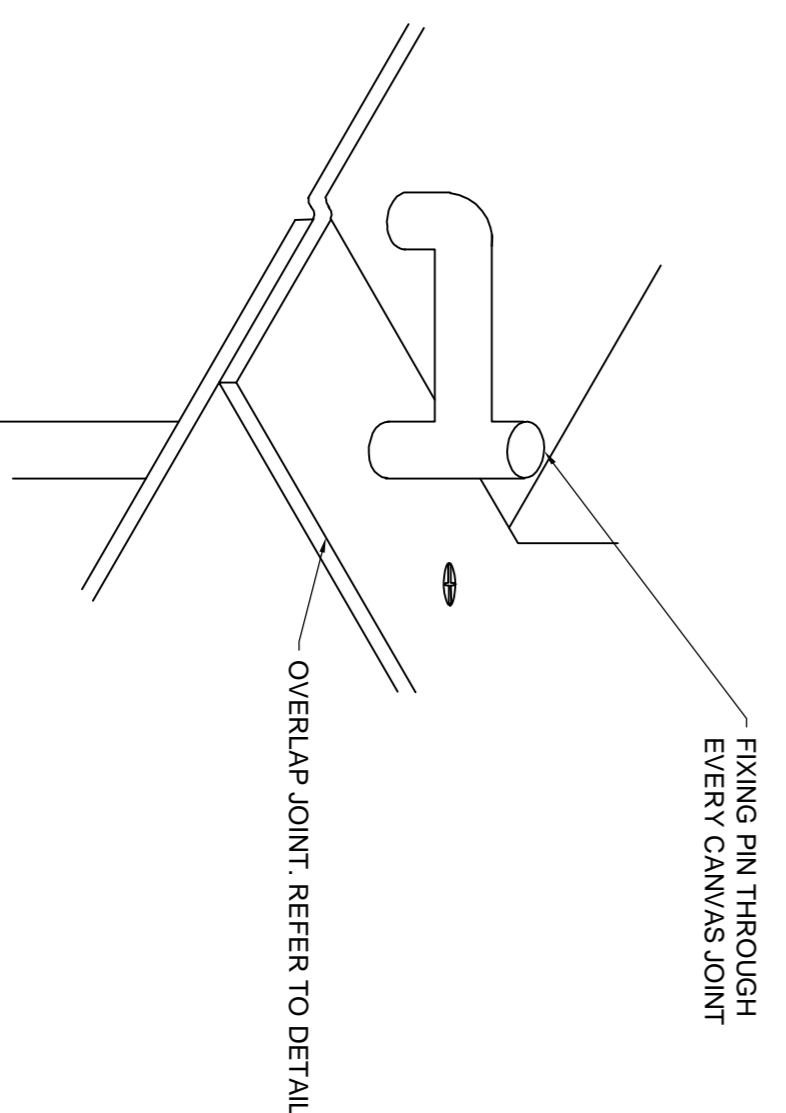
CANVAS DITCH LINING - SCREWED KNUCKLE JOINT (FOR CUT EDGES ONLY)
NOT TO SCALE



GEOSYNTHETIC CEMENTITIOUS COMPOSITE CROSS SECTION
NOT TO SCALE



TERMINATION TO HEADWALL
NOT TO SCALE



CANVAS DITCH LINING - JOINT FIXING PIN
NOT TO SCALE

INSTALLATION GUIDANCE:

GROUND PREPARATION:
PREPARATION OF SUBSTRATE: CANVAS WILL CONFORM CLOSELY TO THE UNDERLYING SURFACE CONTOURS OF THE DITCH PROFILE. THEREFORE ANY VEGETATION AND SHARP OR PROTRUDING ROCKS SHOULD BE REMOVED. THE DITCH SHOULD HAVE A UNIFORM PROFILE FOR EASE OF FUTURE MAINTENANCE. IF INSTALLING ON SOFT GROUND, A COMPACTED LAYER OF GRANULAR FILL CAN BE PLACED IN THE INVERT TO CREATE A SOLID SUBSTRATE.

ANCHOR TRENCH: CANVAS REQUIRES AN ANCHOR TRENCH TO PREVENT UNDERMINING FROM SURFACE WATER RUN OFF AND PROVIDE A NEAT EDGE TERMINATION.

INSTALLATION

UNPACKING: REMOVE THE PACKAGING AND UNROLL CANVAS INTO THE DITCH PROFILE ENSURING THE FIBROUS TOP SURFACE FACES UPWARDS. WITH THE PVC MEMBRANE IN CONTACT WITH THE GROUND.

LAYING: FOR PROJECTS REQUIRING A TRANSVERSE LAYUP, TUCK THE LEADING EDGE OF THE CANVAS INTO THE ANCHOR TRENCH BEFORE CUTTING TO LENGTH.

CUTTING: USE A SNAP-OFF BLADE UTILITY KNIFE FOR CUTTING THE CANVAS BEFORE IT IS HYDRATED OR SET. ALLOW 15-20MM FROM THE CUT EDGE DUE TO POTENTIAL LOSS OF FILL. A POWERED DISC-CUTTER OR ANGLE GRINDER CAN BE USED FOR REPEATED CUTTING.

POSITIONING AND FIXING: ENSURE THERE IS AT LEAST A 100MM OVERLAP BETWEEN CANVAS LAYERS. IMPORTANT NOTE: CARE SHOULD BE TAKEN TO POSITION THE OVERLAP IN THE DIRECTION OF WATER FLOW (LIKE SHINGLED ROOF TILES). PEG THE CANVAS ALONG THE ANCHOR TRENCH, THROUGH EACH OVERLAP JOINT. HYDRATE THE MATERIAL UNDER THE OVERLAPPED SECTIONS OF THE CANVAS.

JOINING: INSERT STAINLESS SCREWS AT 200MM CENTRES, 30 - 50MM FROM THE EDGE OF THE JOINT. IMPERMEABILITY OF JOINTS CAN BE IMPROVED BY APPLYING ADHESIVE SEALANT BETWEEN THE LAYERS, PRIOR TO SCREWING.

IMPORTANT NOTE: IT IS ESSENTIAL THAT CANVAS LAYERS ARE IN DIRECT CONTACT WITH EACH OTHER, TO PREVENT CANVAS LAYERS FROM SEPARATING. JOINTS CAN BE WEIGHED WITH SANDBAGS DURING SETTING OR ADDITIONAL SCREWS CAN BE USED.

HYDRATION: SPRAY THE FIBRE SURFACE WITH WATER UNTIL IT FEELS WET TO TOUCH FOR SEVERAL MINUTES AFTER SPRAYING. CANVAS CANNOT BE OVER HYDRATED AND AN EXCESS OF WATER IS ALWAYS RECOMMENDED. MINIMUM RATIO OF WATER: CANVAS IS 1:2 BY WEIGHT. DO NOT LET HIGH PRESSURE WATER DIRECTLY ONTO THE SURFACE AS THIS MAY WASH A CHANNEL IN THE MATERIAL. ONCE HYDRATED, THE MATERIAL REMAINS WORKABLE FOR 1 TO 2 HOURS. DO NOT RELY ON RAINFALL TO HYDRATE.

SETTING: CANVAS HARDENS TO 80% STRENGTH IN 24 HOURS AND IS READY FOR USE.

NO.	DATE	BY	DESCRIPTION	CHK.	APP.
001	13/07/2025	JV	FOR CONSTRUCTION SET	JW	JW

DRAWING STATUS

S3 - FOR REVIEW

CLIENT:

NORTH YORKSHIRE COUNTY COUNCIL

DESIGNER:

A59 KEX GILL DIVISION

PROJECT NO.: 70049554

PROJECT NAME: AS SHOWN

DATE: Jul 23

TITLE: INTERCEPTOR CHANNEL CANVAS DITCH LINING DETAILS

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