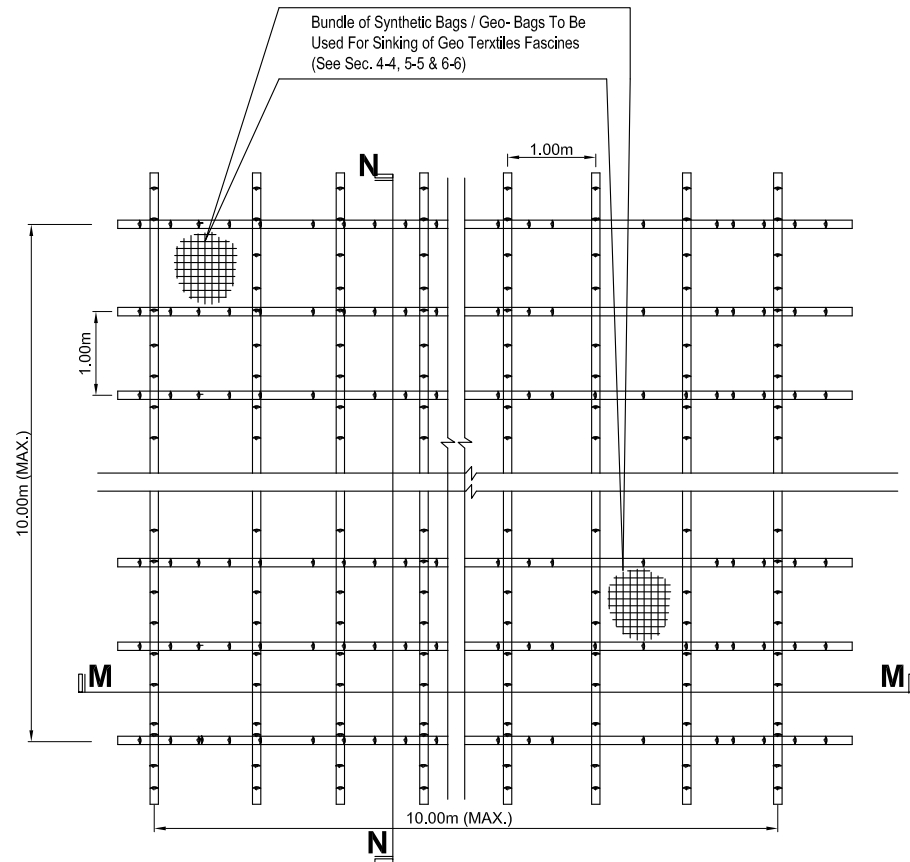
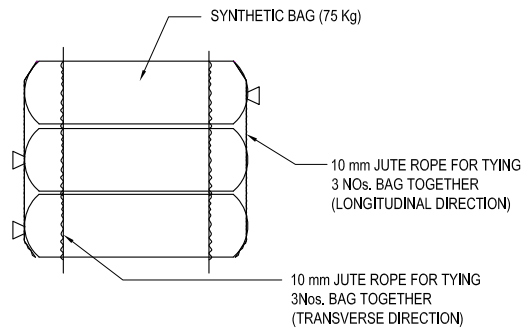
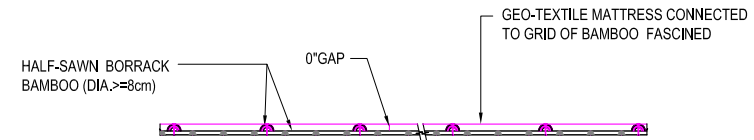




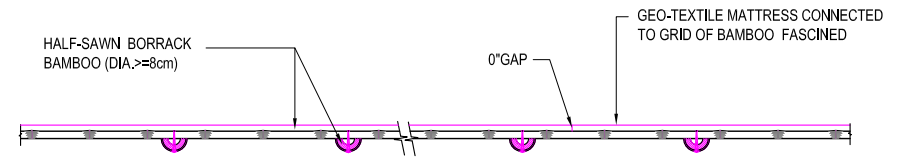
PLAN OF BAMBOO FASCINED WITH GEO TEXTILE



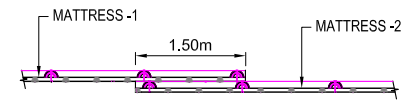
**DETAILS OF TYING MIN. 3 NOS.
NEW SYNTHETIC (75 Kg)**



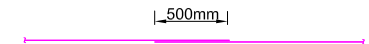
SECTION M-M



SECTION N-N



**OVERLAPPING OF
FASCINED MATTRESSES**

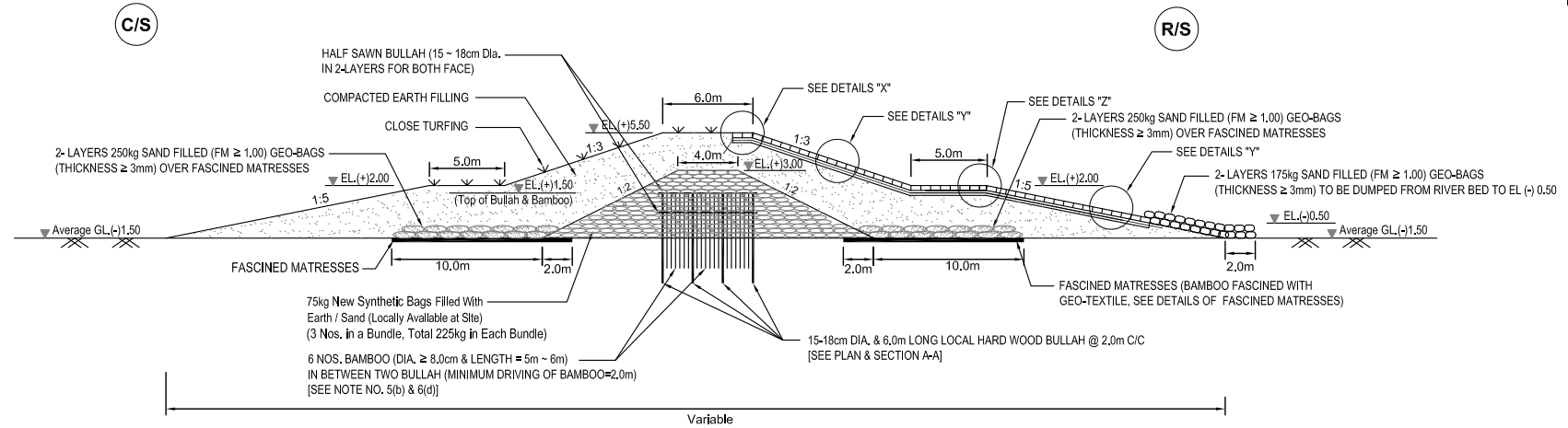


**OVER-LAPPING OF GEO
TEXTILE AT JOINT**

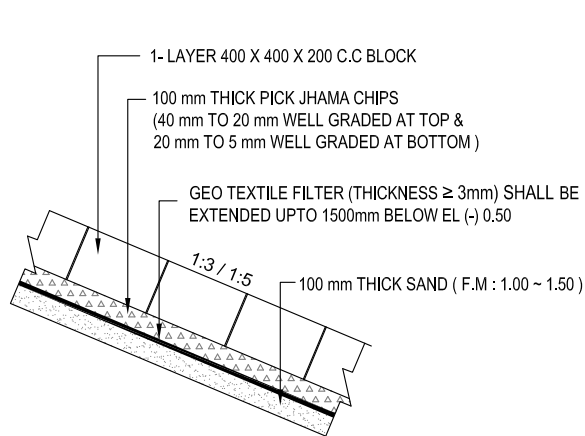
DETAILS OF FASCINED MATTRESSES

BANGLADESH WATER DEVELOPMENT BOARD				GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH		
DESIGN CIRCLE -5				MINISTRY OF WATER RESOURCES		
				BANGLADESH WATER DEVELOPMENT BOARD		
				COASTAL EMBANKMENT IMPROVEMENT PROJECT, PHASE-1 (CEIP-1)		
				POLDER-32, KHULNA		
				DETAILED DESIGN OF 500m LONG NALIAN CLOSURE OVER NALIAN RIVER WITH 2042m LONG APPROACH EMBANKMENT ALONG THE BOTH BANK OF NALIAN RIVER		
				DETAILS OF FASCINED MATTRESSES & TYING OF SYNTHETIC BAGS		
				CONSULTANT : JV OF CES, DEVCON, KRANTI & DPM		
CHECKED BY		REVIEWED BY		DESIGNED BY	CHECKED BY	RECOMMENDED BY
				MD. MAHBUBUR RAHMAN	MD. HABIBUR RAHMAN	MD. HABIBUR RAHMAN
				SENIOR DESIGN ENGINEER	DEPUTY TEAM LEADER	ACTING TEAM LEADER
				DATED: OCT, 2013		
				SHEET NO : 13 OF 13		
				DRG. NO : CEIP/Closure/Polder-32/R-13/13		

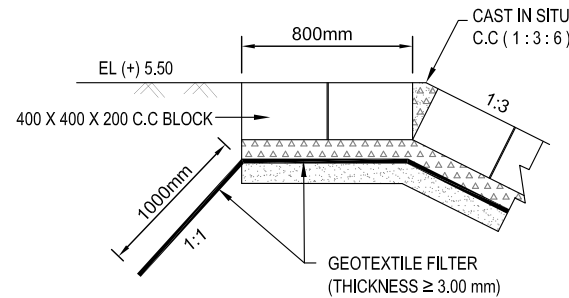
BANGLADESH WATER DEVELOPMENT BOARD				CONSULTANT : JV OF CES, DEVCON, KRANTI & DPM		
DESIGN CIRCLE -5			APPROVED BY	DESIGNED BY	CHECKED BY	RECOMMENDED BY
CHECKED BY	REVIEWED BY	RECOMMENDED BY				
				MD. MAHBUBUR RAHMAN	MD. HABIBUR RAHMAN	MD. HABIBUR RAHMAN
				SENIOR DESIGN ENGINEER	DEPUTY TEAM LEADER	ACTING TEAM LEADER
MD. KAMRUZZAMAN ASSISTANT ENGINEER	MD. MAHFUZUR RAHMAN EXECUTIVE ENGINEER	MD. KUDRAT ALI SUPERINTENDING ENGINEER	JATI DAS KUNDU CHIEF ENGINEER, DESIGN	MARJAN MOLLIQ DESIGN ENGINEER	DATED: OCT, 2013 SHEET NO : 7 OF 13	DRG. NO : CEIP/ClosureFolder-32A-7/13



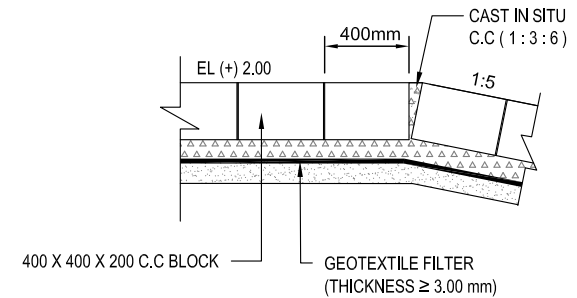
SECTION 2-2 OF NALIAN CLOSURE
[FOR LOCATION & LIMIT OF WORK, SEE PLAN & SECTION A-A]



DETAILS "Y"



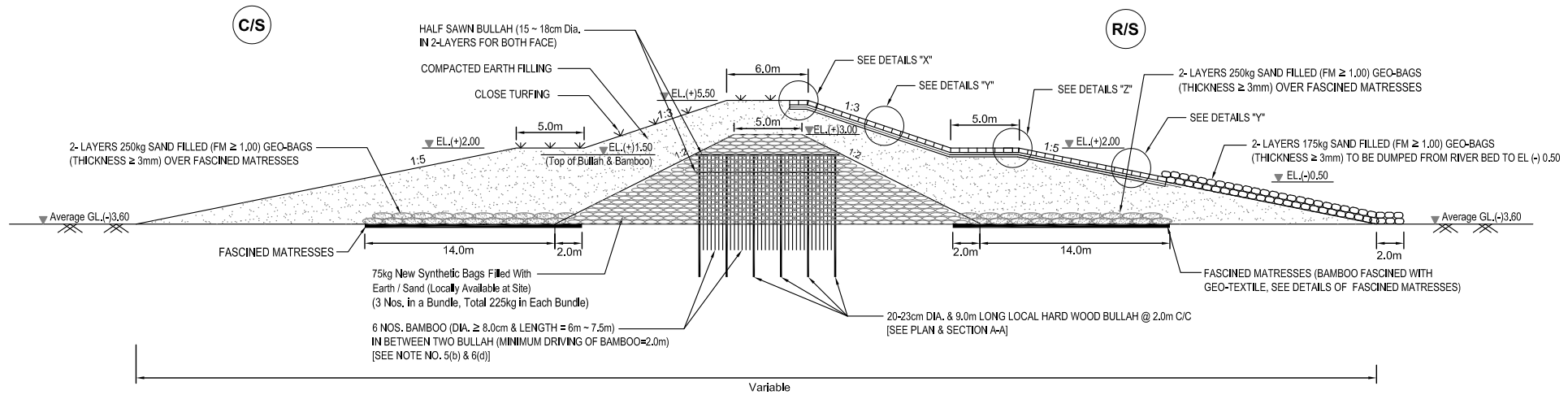
DETAILS "X"



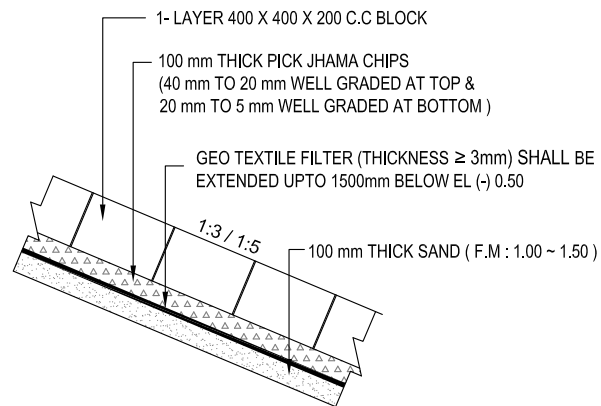
DETAILS "Z"

BANGLADESH WATER DEVELOPMENT BOARD				CONSULTANT : JV OF CES, DEVCON, KRANTI & DPM		
DESIGN CIRCLE -5			APPROVED BY	DESIGNED BY	CHECKED BY	RECOMMENDED BY
CHECKED BY	REVIEWED BY	RECOMMENDED BY				
				MD. MAHUBUR RAHMAN SENIOR DESIGN ENGINEER	MD. HABIBUR RAHMAN DEPUTY TEAM LEADER	MD. HABIBUR RAHMAN ACTING TEAM LEADER
MD. KAMRUZZAMAN ASSISTANT ENGINEER	MD. MAHFUZUR RAHMAN EXECUTIVE ENGINEER	MD. KUDRAT ALI SUPERINTENDING ENGINEER	JATI DAS KUNDU CHIEF ENGINEER, DESIGN	MARJAN MOLLIICK DRAWN BY-JUNIOR DESIGN ENGINEER	DATED: OCT, 2013 SHEET NO : 8 OF 13	DRG. NO : CEIP/Closure/Polder-32/P-8/13

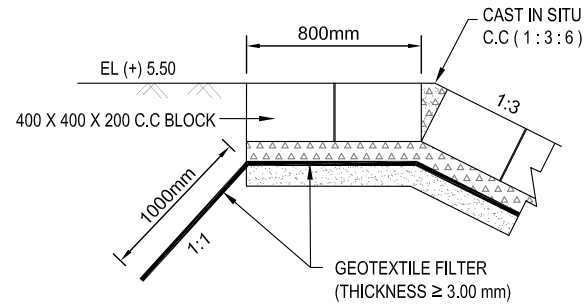
GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH
MINISTRY OF WATER RESOURCES
BANGLADESH WATER DEVELOPMENT BOARD
COASTAL EMBANKMENT IMPROVEMENT PROJECT, PHASE-1 (CEIP-1)
POLDER-32, KHULNA
DETAILED DESIGN OF 500m LONG NALIAN CLOSURE OVER NALIAN RIVER WITH 2042m LONG APPROACH EMBANKMENT ALONG THE BOTH BANK OF NALIAN RIVER
SECTION 2-2 (244.0m To 264.0m & 430.0m To 450.0m) & DETAILS



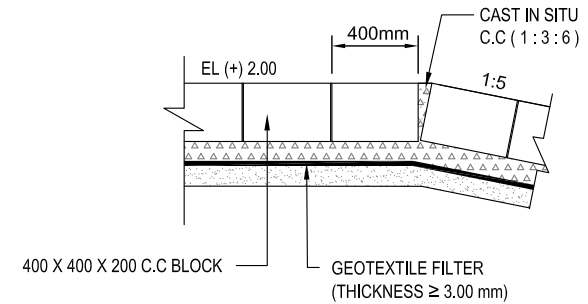
SECTION 3-3 OF NALIAN CLOSURE
[FOR LOCATION & LIMIT OF WORK, SEE PLAN & SECTION A-A]



DETAILS "Y"

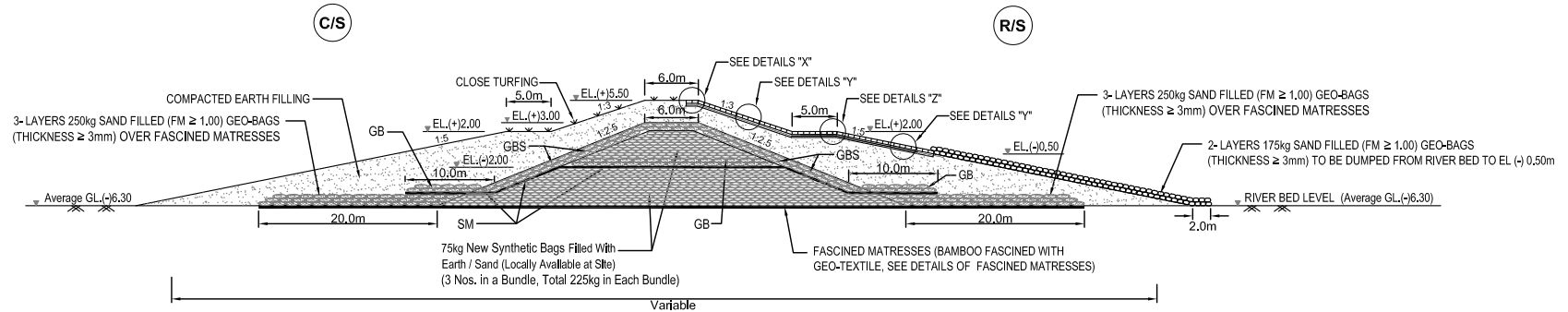


DETAILS "X"



DETAILS "Z"

BANGLADESH WATER DEVELOPMENT BOARD				GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH		
DESIGN CIRCLE -5				MINISTRY OF WATER RESOURCES		
				BANGLADESH WATER DEVELOPMENT BOARD		
				COASTAL EMBANKMENT IMPROVEMENT PROJECT, PHASE-1 (CEIP-1)		
				POLDER-32, KHULNA		
				DETAILED DESIGN OF 500m LONG NALIAN CLOSURE OVER NALIAN RIVER WITH 2042m LONG APPROACH EMBANKMENT ALONG THE BOTH BANK OF NALIAN RIVER		
				SECTION 3-3 (264.0m To 280.0m) & DETAILS		
				CONSULTANT : JV OF CES, DEVCON, KRANTI & DPM		
CHECKED BY		REVIEWED BY		DESIGNED BY	CHECKED BY	RECOMMENDED BY
				MD. MAHBUBUR RAHMAN	MD. HABIBUR RAHMAN	MD. HABIBUR RAHMAN
				SENIOR DESIGN ENGINEER	DEPUTY TEAM LEADER	ACTING TEAM LEADER
MD. KAMRUZZAMAN	MD. MAHFUZUR RAHMAN	MD. KUDRAT ALI	JATI DAS KUNDU	MARJAN MOLLIICK	DATED: OCT, 2013	DRG. NO : CEIP/Closure/Polder-32/P-9/13
ASSISTANT ENGINEER	EXECUTIVE ENGINEER	SUPERINTENDING ENGINEER	CHIEF ENGINEER, DESIGN	DRAWN BY-JUNIOR DESIGN ENGINEER	SHEET NO : 9 OF 13	

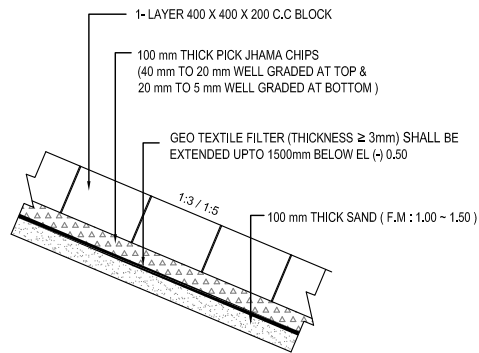


**SECTION 4-4 OF NALIAN CLOSURE
[FOR LOCATION & LIMIT OF WORK, SEE PLAN & SECTION A-A]**

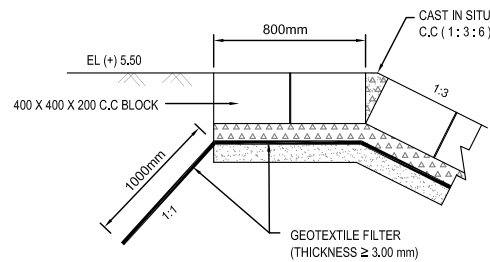
GB: 2- LAYERS 250kg SAND FILLED (FM ≥ 1.00) GEO-BAGS (THICKNESS ≥ 3mm) OVER SILL MATRESSES

SM: SILL MATRESSES OVER CORE BY GEO-TEXTILE (THICKNESS ≥ 3mm)

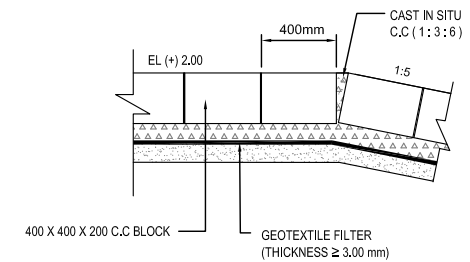
GBS: 2- LAYERS 250kg SAND FILLED (FM ≥ 1.00) GEO-BAGS (THICKNESS ≥ 3mm) OVER SYNTHETIC BAGS



DETAILS "Y"



DETAILS "X"



DETAILS "Z"

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH

MINISTRY OF WATER RESOURCES

BANGLADESH WATER DEVELOPMENT BOARD

COASTAL EMBANKMENT IMPROVEMENT PROJECT, PHASE-1 (CEIP-1)

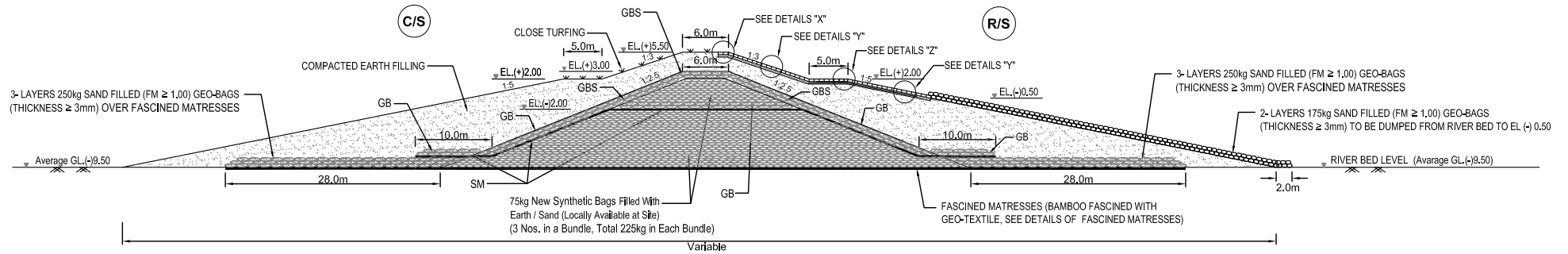
POLDER-32, KHULNA

DETAILED DESIGN OF 500m LONG NALIAN CLOSURE
OVER NALIAN RIVER WITH 2042m LONG APPROACH
EMBANKMENT ALONG THE BOTH BANK OF NALIAN RIVER

SECTION 4-4 (280.0m To 330.0m) & DETAILS

CONSULTANT : JV OF CES, DEVCON, KRANTI & DPM

BANGLADESH WATER DEVELOPMENT BOARD				CONSULTANT : JV OF CES, DEVCON, KRANTI & DPM		
DESIGN CIRCLE -5			APPROVED BY	DESIGNED BY	CHECKED BY	RECOMMENDED BY
CHECKED BY	REVIEWED BY	RECOMMENDED BY				
				MD. MAHBUBUR RAHMAN	MD. HABIBUR RAHMAN	MD. HABIBUR RAHMAN
				SENIOR DESIGN ENGINEER	DEPUTY TEAM LEADER	ACTING TEAM LEADER
MD. KAMRUZZAMAN ASSISTANT ENGINEER	MD. MAHFUZUR RAHMAN EXECUTIVE ENGINEER	MD. KUDRAT ALI SUPERINTENDING ENGINEER	JATI DAS KUNDU CHIEF ENGINEER, DESIGN	MARJAN MOLICK DRAWN BY-JUNIOR DESIGN ENGINEER	DATED: OCT, 2013 SHEET NO : 10 OF 13	DRG. NO : CEIP/Closure/Polder-32/P-10/13

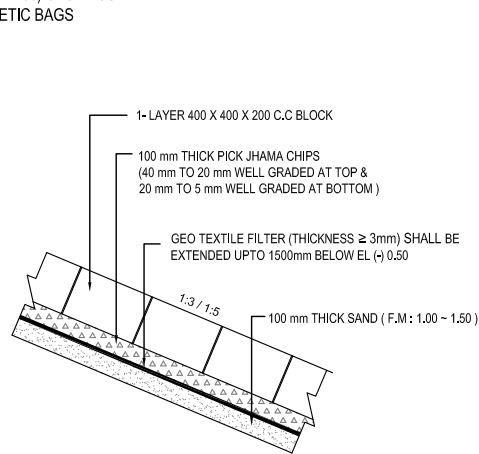


SECTION 5-5 OF NALIAN CLOSURE
[FOR LOCATION & LIMIT OF WORK, SEE PLAN & SECTION A-A]

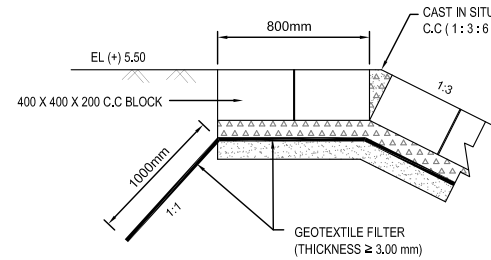
GB: 2- LAYERS 250kg SAND FILLED (FM ≥ 1.00) GEO-BAGS
 (THICKNESS ≥ 3 mm) OVER SILL MATRESSES

SM: SILL MATRESSES OVER CORE BY GEO-TEXTILE
 (THICKNESS ≥ 3 mm)

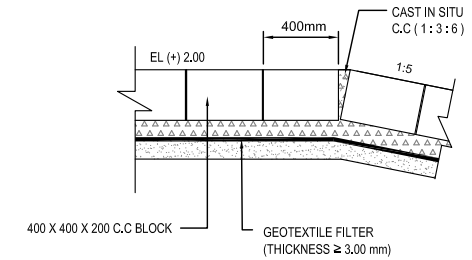
GBS: 2- LAYERS 250kg SAND FILLED (FM ≥ 1.00) GEO-BAGS
 (THICKNESS ≥ 3 mm) OVER SYNTHETIC BAGS



DETAILS "Y"



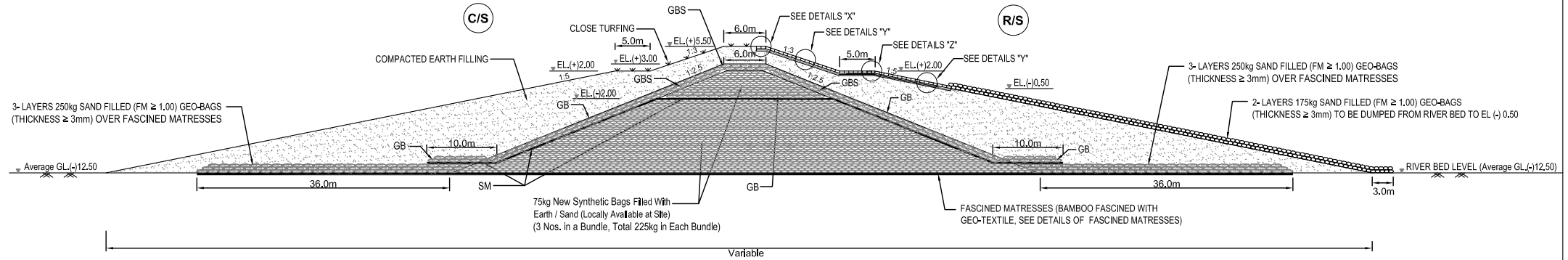
DETAILS "X"



DETAILS "Z"

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH		
MINISTRY OF WATER RESOURCES		
BANGLADESH WATER DEVELOPMENT BOARD		
COASTAL EMBANKMENT IMPROVEMENT PROJECT, PHASE-1 (CEIP-1)		
POLDER-32, KHULNA		
DETAILED DESIGN OF 500m LONG NALIAN CLOSURE OVER NALIAN RIVER WITH 2042m LONG APPROACH EMBANKMENT ALONG THE BOTH BANK OF NALIAN RIVER		
SECTION 5-5 (330.0m To 370.0m & 410.0m To 430.0m) & DETAILS		
CONSULTANT : JV OF CES, DEVCON, KRANTI & DPM		
DESIGNED BY	CHECKED BY	RECOMMENDED BY
MD. MAHBUBUR RAHMAN SENIOR DESIGN ENGINEER	MD. HABIBUR RAHMAN DEPUTY TEAM LEADER	MD. HABIBUR RAHMAN ACTING TEAM LEADER
MARJAN MOLICK DRAWN BY-JUNIOR DESIGN ENGINEER	DATED: OCT, 2013	DRG. NO : CEIP/Closure/Polder-32/P-11/13
	SHEET NO : 11 OF 13	

BANGLADESH WATER DEVELOPMENT BOARD		
DESIGN CIRCLE -5		
CHECKED BY	REVIEWED BY	RECOMMENDED BY
MD. KAMRUZZAMAN ASSISTANT ENGINEER	MD. MAHFUZUR RAHMAN EXECUTIVE ENGINEER	MD. KUDRAT ALI SUPERINTENDING ENGINEER
APPROVED BY		
JATI DAS KUNDU CHIEF ENGINEER, DESIGN		

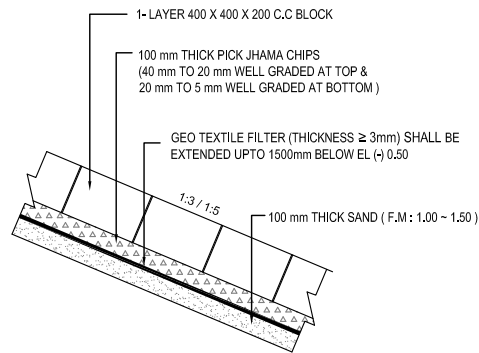


**SECTION 6-6 OF NALIAN CLOSURE
[FOR LOCATION & LIMIT OF WORK, SEE PLAN & SECTION A-A]**

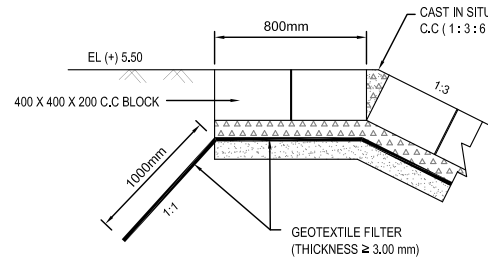
GB: 2- LAYERS 250kg SAND FILLED (FM $\geq$ 1.00) GEO-BAGS
(THICKNESS $\geq$ 3mm) OVER SILL MATRESSES

SM: SILL MATRESSES OVER CORE BY GEO-TEXTILE
(THICKNESS $\geq$ 3mm)

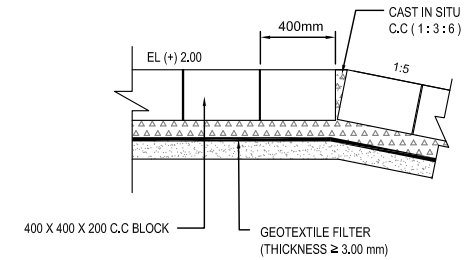
GBS: 2- LAYERS 250kg SAND FILLED (FM $\geq$ 1.00) GEO-BAGS
(THICKNESS $\geq$ 3mm) OVER SYNTHETIC BAGS



DETAILS "Y"



DETAILS "X"



DETAILS "Z"

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH
MINISTRY OF WATER RESOURCES
BANGLADESH WATER DEVELOPMENT BOARD
COASTAL EMBANKMENT IMPROVEMENT PROJECT, PHASE-1 (CEIP-1)
POLDER-32, KHULNA

DETAILED DESIGN OF 500m LONG NALIAN CLOSURE
OVER NALIAN RIVER WITH 2042m LONG APPROACH
EMBANKMENT ALONG THE BOTH BANK OF NALIAN RIVER

SECTION 6-6 (370.0m To 410.0m) & DETAILS

CONSULTANT : JV OF CES, DEVCON, KRANTI & DPM

BANGLADESH WATER DEVELOPMENT BOARD				DESIGNED BY		
DESIGN CIRCLE -5			APPROVED BY	DESIGNED BY	CHECKED BY	RECOMMENDED BY
CHECKED BY	REVIEWED BY	RECOMMENDED BY				
				MD. MAHBUBUR RAHMAN SENIOR DESIGN ENGINEER	MD. HABIBUR RAHMAN DEPUTY TEAM LEADER	MD. HABIBUR RAHMAN ACTING TEAM LEADER
MD. KAMRUZZAMAN ASSISTANT ENGINEER	MD. MAHFUZUR RAHMAN EXECUTIVE ENGINEER	MD. KUDRAT ALI SUPERINTENDING ENGINEER	JATI DAS KUNDU CHIEF ENGINEER, DESIGN	MARJAN MOLLIK DRAWN BY-JUNIOR DESIGN ENGINEER	DATED: OCT, 2013 SHEET NO : 12 OF 13	DRG. NO : CEIP/Closure/Polder-32/P-12/13