



- Chart Datum - Mean Sea Level		
s:- dimensions are in meter s Plate should be read a e Quarry stones should b e density of quarry stone rosity should not be mor d preparation should be nour units are placed ran Details:- hest Astronomical Tide an High Water Level an Sea Level an Low Water west Astronomical Tide	rs. long with Pla be used. es should be re than 30%. taken care a ndomly. +1.25 MSL +1.00 MSL +0.73 MSL +0.30 MSL +0.00 MSL	ate 2. 2.65 t/m ³ . t site. +0.55 CD +0.30 CD +0.00 CD -0.40 CD -0.70 CD
NT: MINISTRY O INFRASTRU	F HOUSING A	ND VIVES
	APCOS LIMITE	D, INDIA
DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, INDIA.		
ECT: KULHUDHUFFUSHI HARBO	OUR EXPANSIO	ON PROJECT
E 11: DETAILS OF STAIR	CASE IN QUA	Y WALL







nensions are in meters. late should be read along with Plate 2. fe bearing capacity of soil = 100 kN/m ² at the g level. e at founding level is 32. of concrete shall be C40 conforming to PART 1-1997. s should be made of C40 concrete. s are connected by cement mortar. of cement shall be of Portland Cement ng to BS12. um cement content is 320 - 330kg/m ³ ng to BS 5328:1997. m precast concrete pipe should be used. er maintenance should be carried out to clogging.
hart Datum lean Sea Level
ails:- st Astronomical Tide +1.25 MSL +0.55 CD High High water level +1.00 MSL +0.30 CD Sea Level +0.73 MSL +0.00 CD Low Low Water +0.30 MSL -0.40 CD t Astronomical Tide +0.00 MSL -0.70 CD
: MINISTRY OF HOUSING AND INFRASTRUCTURE, MALDIVES
DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, INDIA.
CT: ULHUDHUFFUSHI HARBOUR EXPANSION PROJECT
14: SECTIONAL DETAILS OF SEPARATION WALL



s are in meters.
ing capacity of soil = 100 kN/m ² at the l. inding level is 32
crete shall be C 40 conforming to T 1-1997. It shall be of Portland Cement
512. nent content is 320 - 330kg/m ³ S 5328:1997
shall be of B500A conforming to he slab is 0.3m.
um Level
nomical Tide +1.25 MSL +0.55 CD h water level +1.00 MSL +0.30 CD el +0.73 MSL +0.00 CD v Water +0.30 MSL -0.40 CD nomical Tide +0.00 MSL -0.70 CD
CLIENT: MINISTRY OF HOUSING AND INFRASTRUCTURE, MALDIVES
DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, INDIA. PROJECT:
KULHUDHUFFUSHI HARBOUR EXPANSION PROJECT
RC DETAILING OF RAMP



CD - Chart Datum MSL - Mean Sea Level	
 Notes:- All dimensions are in meters. This Plate should be read along with Plate 2. Dredging should not be made much closer to pile location. Founding level of pile must be 9m. 7 number of timber jetty is placed at 15m center to center. Staircase is made of timber planks with 7 steps. Tread and rise are 0.3m and 0.175m respectively. Precast spun piles of 300mm dia and 9m length are used Stair case beams are made of timber 75mm x 75mm 10. Longitudinal and cross beams are made of concrete 250mm x 450mm @500mm c/c. Southern Pine type of wood is preferred. Piles are C40 pre-stressed concrete spun type. 	
Tide Details:- 1. Highest Astronomical Tide +1.25 MSL +0.55 CD 2. Mean High Water Level +1.00 MSL +0.30 CD 3. Mean Sea Level +0.73 MSL +0.00 CD 4. Mean Low Water +0.30 MSL -0.40 CD 5. Lowest Astronomical Tide +0.00 MSL -0.70 CD	
CLIENT: MINISTRY OF HOUSING AND INFRASTRUCTURE, MALDIVES	
DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, INDIA.	
PROJECT: PROJECT: KULHUDHUFFUSHI HARBOUR EXPANSION PROJECT	
신 PLATE 16: LONGITUDINAL SECTION OF TIMBER JETTY	



m .evel		
e in meters. be read along with Plate 2. not be made much closer		
pile must be 9m. r jetty is placed at 15m center		
of timber planks with		
0.3m and 0.175m		
of 300mm dia and 9m length		
are made of timber 75mm x 75mm cross beams are made of 50mm @500mm c/c.		
mical Tide +1.25 MSL +0.55 CD r Level +1.00 MSL +0.30 CD +0.73 MSL +0.00 CD - +0.30 MSL -0.40 CD mical Tide +0.00 MSL -0.70 CD		
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PARTMENT OF OCEAN ENGINEERING IIT MADRAS, INDIA.		
FFUSHI HARBOUR EXPANSION PROJECT		
OOR AND FOUNDATION PLAN ER JETTY		



- Chart Datum 1. All dimensions are in meters. 2. This Plate should be read along with Plate 2. 3. Dredging should not be made much closer 4. Founding level of pile must be 9m. 5. 7 number of timber jetty is placed at 15m center 6. Staircase is made of timber planks with 7. Tread and rise are 0.3m and 0.175m 8. Precast spun piles of 300mm dia and 9m length 9. Stair case beams are made of timber 75mm x 75mm 10.Longitudinal and cross beams are made of concrete 250mm x 450mm @500mm c/c. 1. Highest Astronomical Tide +1.25 MSL +0.55 CD 2. Mean High Water Level +1.00 MSL +0.30 CD +0.73 MSL +0.00 CD +0.30 MSL -0.40 CD 5. Lowest Astronomical Tide +0.00 MSL -0.70 CD MINISTRY OF HOUSING AND INFRASTRUCTURE, MALDIVES

WAPCOS LIMITED, INDIA

DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, INDIA.

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KULHUDHUFFUSHI HARBOUR EXPANSION PROJECT

STAIR CASE DETAILS OF TIMBER JETTY