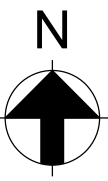


A1



MARKER BOUY AND CHAINS FIXED TO 4 No 0.5x0.5x0.5m DEEP IN-SITU CONCRETE BLOCKS

CONSENTED POINT OF DISCHARGE
230890, 254242

PREVIOUS POINT OF DISCHARGE
230916, 254239

CO-ORDINATES
230887.105 mE
254237.270 mN
IL=-4.01 AOD

CO-ORDINATES
230905.728 mE
254230.997 mN
IL=-3.57m AOD

CO-ORDINATES
230930.758 mE
254227.899 mN
IL=-3.01m AOD

CO-ORDINATES
230956.825 mE
254225.524 mN
IL=-2.42m AOD

CO-ORDINATES
231013.851 mE
254216.172 mN
IL=-1.07m AOD

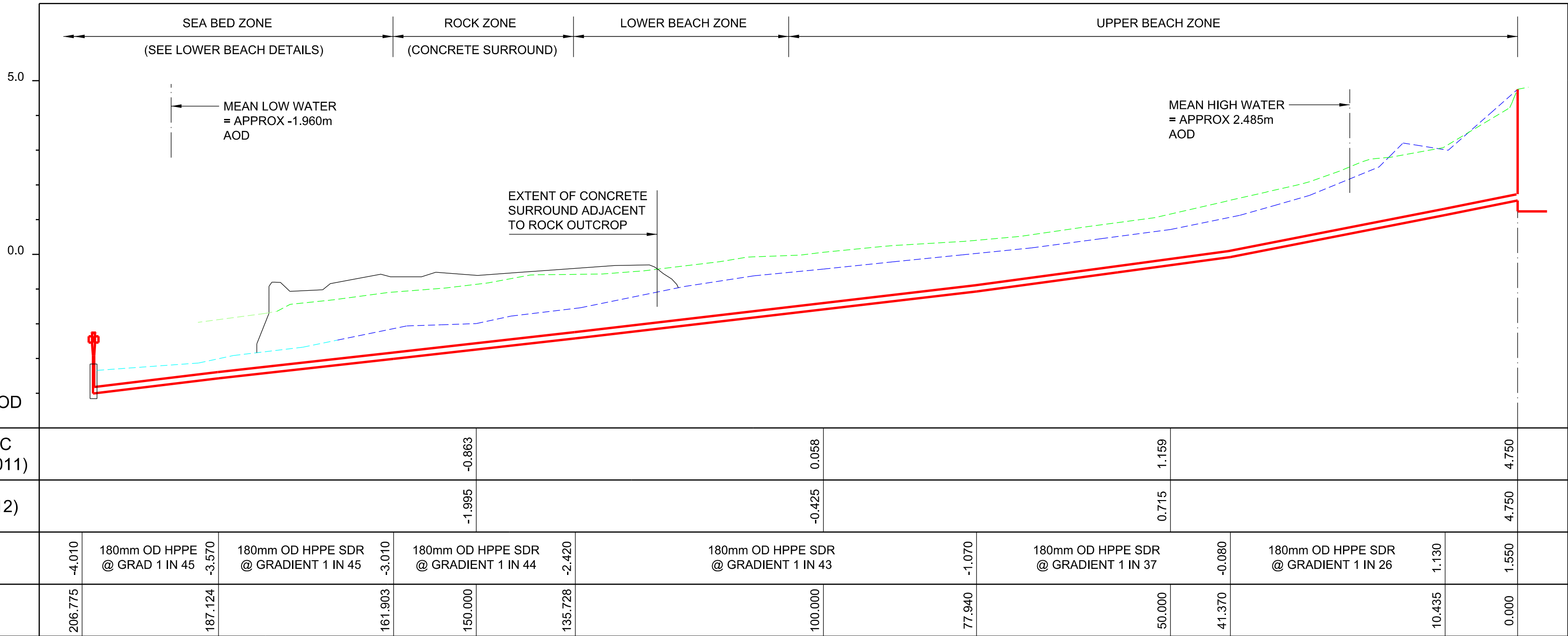
CO-ORDINATES
231078.911 mE
254198.415 mN
IL=1.13m AOD

CO-ORDINATES
231049.490 mE
254207.973 mN
IL=-0.08m AOD

0.00 - 1.50m JOINT BETWEEN EXISTING CAST PIPE WITHIN SPS AND NEW HDPE PIPE ENCAPSULATED WITH 150mm C40 CONCRETE

10cm - SCALE WITH CAUTION AS DISTORTION CAN OCCUR

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LONGITUDINAL SECTION OF REPLACEMENT SEA OUTFALL PIPE

SCALE 1: 500 HOR; 1: 100 VER

X05	-	RISK OF DROWNING, ADVERSE WEATHER CONDITIONS, PUBLIC INTERFACE, CONTACT WITH RAW OR TREATED SEWAGE AND SLIPS/ TRIPS/ FALLS	LIFTING/ CRAINAGE (SOME WITHIN TIDAL RANGE) - RISK OF CRUSHING/ DROWNING, DEEP EXCAVATIONS, HIGH GROUND WATER LEVELS, TIDAL INUNDATION, RISK OF DROWNING IN SEA, ADVERSE WEATHER, PUBLIC INTERFACE, ENVIRONMENTAL POLLUTION INCIDENTS, CONTACT WITH RAW OR TREATED SEWAGE, CONFINED SPACE WORKING, WORKING WITH CONCRETE, EXISTING SERVICES AND SLIPS/ TRIPS/ FALLS
Rev	Construction Risks	Maintenance/ Operating	Demolition/ Adaptation Risks
Health & Safety Information Box			
1. The headings for the risks identified are given in the above table; the Contractor should refer to the Design Risk Register for details. 2. It is assumed that all the works on this drawing will be carried out by a competent Contractor who has carried out a comprehensive risk assessment.			

LEGEND

- NEW OUTFALL PIPE
- BEACH PROFILE TAKEN FROM TOPOGRAPHIC SURVEY (MAY 2011 BY PM CONSULTANTS) (SURVEY IS BASED ON GPS DERIVED VALUE OF 5.568m. OSBM IS 5.58m QUOTED VALUE (NOT USED))
- BEACH PROFILE TAKEN FROM LATEST CHAIN SURVEY JANUARY 2012 (TBM STATION 3 FROM LATEST TRIAL PIT SURVEY)
- ASSUMED GROUND PROFILE

NOTES

- ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM CD TO OD CONVERSION USED = -2.44m
- BACKGROUND FROM ORDNANCE SURVEY
- FOR DETAILS OF BEACH ZONES TYPICAL DETAILS REFER TO DRAWING 2/TC - 2012
- EXISTING OUTFALL ABANDONED AND REMOVED
- MINIMUM 900mm COVER PROVIDED ALONG LENGTH OF UPPER BEACH ZONE

X05	12/04/13	LTG	AS BUILT	Y
C04	05/07/12	LTG	POINT OF DISCHARGE MOVED TO SUIT THAT OF EXISTING ROUTE OF SEWER AMENDED TO SUIT	N
C03	19/03/12	LTG	CONSTRUCTION ISSUE	N
T02	30/01/12	LTG	REVISED TARGET COST ISSUE TO INCORPORATE TRIAL PIT AND LATEST CHAIN SURVEY	N
T01	24/11/11	LTG	TARGET COST ISSUE	Y
P00	31/10/11	LTG	PRELIMINARY ISSUE	N
Rev	Date	By	Description	H&S Box Updated

AS BUILT



Job Title
LLANGRANNOG
OUTFALL

Drawing Title
PLAN OF REPLACEMENT
OUTFALL PIPE &
LONGITUDINAL SECTION

ARUP		
Consultants Job No. 217036		
Scale 1:500	Originator LTG	
Checked LTG	Approved MJU	Date OCT 11
Scheme No. 2/TC	Drawing No. 2011	Rev X05

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