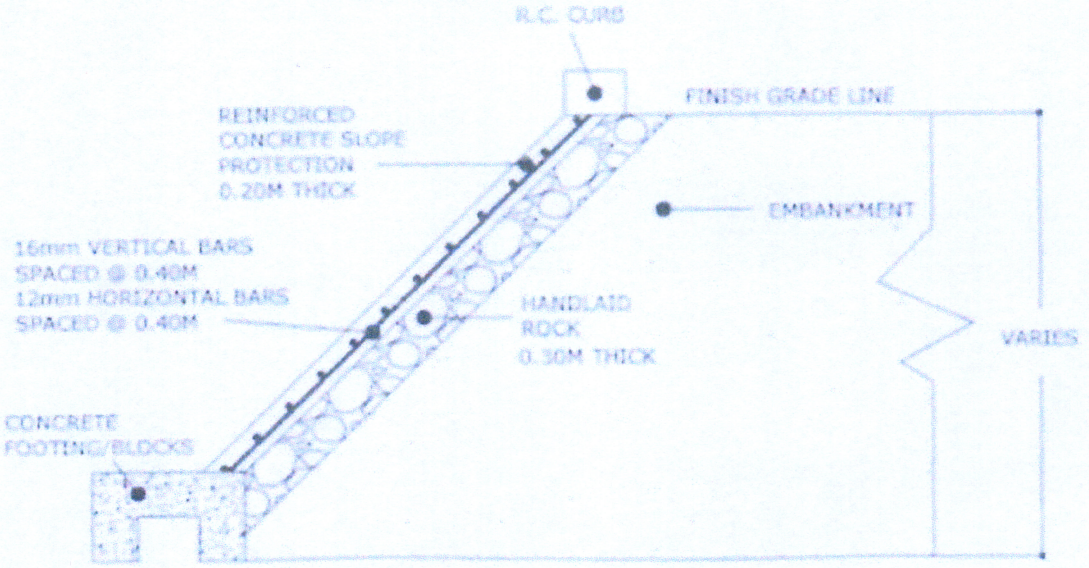
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PROVINCE OF PALAWAN
OFFICIAL SEAL

CORON BAY DEVELOPMENT PROJECT

IMPACT ASSESSMENT WITH CORRESPONDING MITIGATING MEASURES TO THE REMOVAL OF FILLING MATERIALS AND INSTALLATION OF CONCRETE SEAWALL



REINFORCED CONCRETE SEAWALL PLAN

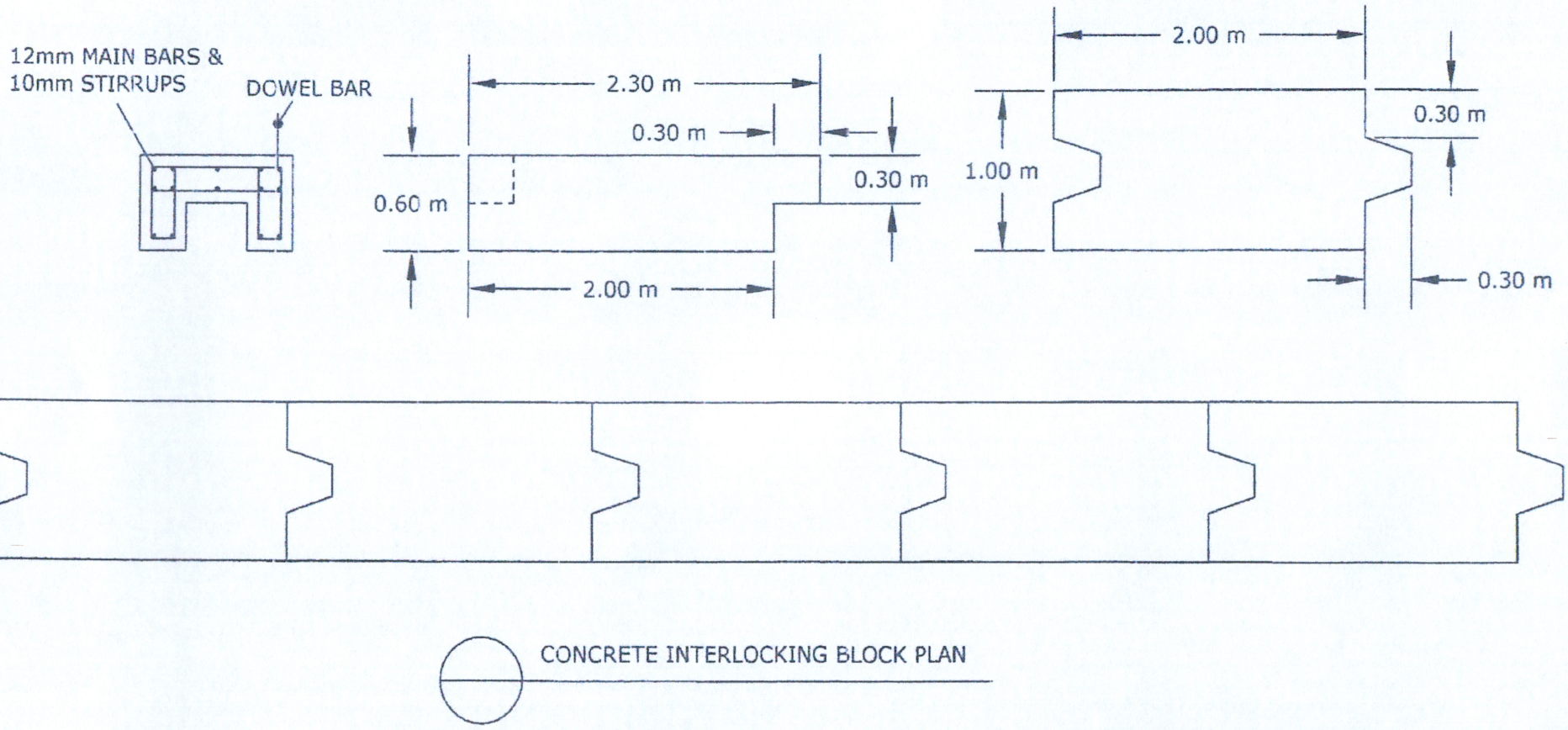
PREPARED BY:

428 HI-TECH GROUP INC./BCT TRADING AND CONSTRUCTION

EVALUATED AND RECOMMENDING APPROVAL BY:

ENGR. IKE PARANGUE
MUNICIPAL ENGINEER
CORON, PALAWAN

CONRETE SEA WALL PLAN



CONCRETE INTERLOCKING BLOCK PLAN

REMOVAL OF EXISTING FILLING MATERIALS BETWEEN
DISCOVERY ISLAND AND RECLAMATION



PREPARED BY:

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I- ACTIVITY DESCRIPTION

During the joint inspection of the task force created by the Regional Executive Director; RED Lormelyn Claudio dated May 26, 2022 to the suspended reclamation project of the Coron Bay Development Project (49 Hectares Reclamation) of the Provincial Government of Palawan.

One of the agreed activities as immediate action of the Province ,428 Hi-Tech Group Inc and the BCT Trading and Construction Inc. is to install concrete seawall to prevent further siltation near the discovery island area and to remove the existing fill materials on the area to have an water way access for the mangroves.

The contractor committed to conduct said activities in coordination to the Department of Public Works and Highways (DPWH) and the Municipal Engineering Office.

Concrete Seawall is a strong wall or embankment to prevent encroachment of the sea serve as breakwater, etc. This wall will serve also as the permanent boundary of the reclamation.

Removal/ of Filling Materials is the process of extracting soil which are already reclaimed in the area by the used of heavy equipment's.



Around 12 meters away from the discovery island should be remove or extracted. However, All safety measures and environmental mitigating measures during the activity.

II- SUMMARY OF BASELINE CHARACTERIZATION FOR THE ACTIVITY

MODULE	BASELINE CONDITION
Land Used	The area of the reclamation is a commercial and residential used, its adjacent to a Alienable and Disposable Land.
Geology/Geomorphology	The subsoil is generally weak (very soft to soft) with thick sequence of Quaternary alluvium made up principally of unconsolidated strata of plastic silty clay and clay. Very stiff to hard clay layers are generally deeper. As seen during Typhoon Yolanda which affects Coron Bay coastline is considered vulnerable to storm surges and coastal floods.
Terrestrial Ecology	Terrestrial ecology is deemed not significant or relevant to the project as there is no terrestrial flora or fauna on the site.
Oceanography	The NW-SE current flow at the NE boundary and the NE-SW current at the NW boundary of the proposed Project remained unchanged even after low tide and during high tide periods. This is likely due to the influenced of river inflow. Meanwhile, the current at the SE boundary of the Project flows from southwest to northeast after the low tide and during high tide periods.
Socio-Demographic/ Economic Conditions	There were informal settlers situated in the coastal area of Brgy. Poblacion 5, Coron. Most of them rely on the tourism industry and expect not to be relocated if the reclamation is completed.

III- IMPACT MANAGEMENT PLAN FOR INSTALLATION OF SEAWAL AND REMOVAL OF FILLING MATERIALS

Project Phase/Environmental Aspect	Environmental Component likely to be affected	Potential Impact	Options for prevention, Mitigation or Enhancement	Responsible Entity
movement of heavy equipment on site and delivery of materials	Air	*Generation of dust* (-) Increased particulate matter due to movement of vehicles (-) Health effects due to inhalation of dust by residents living in areas adjacent to project site	• Implement dust suppression techniques. Cover trucks with tarpaulin loaded with • spoils/filling materials when in transit. • Pre-wetting of road surface to minimize dust.	**Provincial Government of Palawan and 428 Hi Tech Group Inc.**
	People	*Threat to public safety* (-) Possible injury or fatality as a result of heavy equipment and delivery trucks	• Implement speed limits and safety devices /signs. • Ensure competency of	**Provincial Government of Palawan and 428 Hi Tech Group Inc.**

		movement in the project site	drivers to drive safely. • Engage local communities and inform them of site activities through IECs, posting construction "off limits" and safety signage	
		Traffic congestion (-) Rapid deterioration of existing national/ municipal/ barangay road condition as a result of heavy equipment movement	Coordinate with DPWH and Municipal Engineering Department in road maintenance and necessary improvements to accommodate increased vehicle movement.	**Provincial Government of Palawan and 428 Hi Tech Group Inc.**

		Occupational Health and Safety	Posting of safety warning and danger signs Provision and wearing of personal protective equipment at all times	**Provincial Government of Palawan and 428 Hi Tech Group Inc**
Site preparation, ground levelling, and drainage improvements	Land	(-) The Project site's elevation will be altered. The elevation change will result in subsequent change in the hydrology surrounding the Project site	Implement flood control measures which such as construction of proper and adequate waterway systems.	**Provincial Government of Palawan and 428 Hi Tech Group Inc**

Site preparation, excavation, and filling	Land	*Inducement of subsidence or collapse* (-) Minor subsidence may occur within the project site when the subsurface is disturbed during excavation activities for preparation of foundation	Implement best engineering practices such as suitable backfilling material, proper slope, grading and contouring to minimize possibility of subsidence or differential settling.	**Provincial Government of Palawan and 428 Hi Tech Group Inc**
Site preparation, excavation, and filling	Land	*Soil erosion from onsite activities* (-) Improper storage of construction materials and indiscriminate disposal of fill materials and excavated soils may affect erosion patterns.	• Implement best engineering practices such as suitable backfilling material, proper slope, grading and contouring to minimize possibility of subsidence or differential settling.	**Provincial Government of Palawan and 428 Hi Tech Group Inc**

			• Progressive ground preparation and clearing to minimize total area of land that will be disturbed at any one time, where practical.	
	Land	*Contamination of soil / disposal site* (-) Excavated soil materials may contain contaminants that may potentially affect soil and ground and surface water quality	• Implement best engineering practices such as proper stockpiling and handling of excavated materials. • Implement proper filling and disposal to avoid contamination of soil, groundwater, and surface water	**Provincial Government of Palawan and 428 Hi Tech Group Inc**

EXCAVATION WORKS	Marine Water Quality	Degradation of water quality due to siltation brought about by extraction activities	Maintain water quality levels prescribed in DAO 2016-08, particularly TSS at 70 mg/l. Sand bunds or other types of bund walls or biologically-friendly silt curtains or other appropriate mitigation measures should be provided to prevent dispersion of silt or sediments away from the project site during excavation works. Implement best environmental management practices such as, but shall not be limited to, removal of debris along the waterways, proper disposal of construction wastes, installation of silt traps at strategic locations, and spoils to	**Provincial Government of Palawan and 428 Hi Tech Group Inc**

			be properly contoured to prevent erosion	
GENERATION OF WASTE	Marine Water	(-) Degradation of water quality due to runoff from, solid wastes, and other construction materials that can harm aquatic flora/fauna	Removal of debris along the waterways will be conducted, all construction wastes will be properly disposed, silt traps at strategic locations and spoils will be properly contoured to prevent erosion.	**Provincial Government of Palawan and 428 Hi Tech Group Inc**
CLEARING AND REMOVAL OF STRUCTURES	Land Water People	Clearing and removal of structures and facilities that may result to improper disposal of contaminated materials or release of	Proper implementation of the Abandonment/ Decommissioning Plan after the activity that details the decommissioning, rehabilitation, and social activities which shall include the	**Provincial Government of Palawan and 428 Hi Tech Group Inc**

	toxic and hazardous wastes / compounds	methodology, timing, and techniques.	

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