Sheridan Beach Resort and Spa

SITIO SABANG, BARANGAY CABAYUGAN, PUERTO PRINCESA CITY, PALAWAN

AN EIA/EIS REPORT IN FULFILLMENT OF THE REQUIREMENTS FOR THE APPROVAL OF THE APPLICATION FOR THE AMENDMENTS OF THE ENVIRONMENTAL COMPLIANCE CERTIFICATE (ECC) OF SHERIDAN BEACH RESORT AND SPA

Jeco Development Corp.

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BIBLIOGRAPHY

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LGU City of Puerto Princesa, Palawan
Nationa statistics Office, Profile of Puerto Princesa, Palawan
DOST-PAGASA, Climatological Norms in Philippine Synoptic Stations
DOST-PAGAS, Monthly Total and Annual Climatic Data
DOST-PAGASA, Observed Climate Trends and Projected Climate change in the Phils.
DENR-MGB, Flood Susceptibility Map of Puerto Princesa City, Palawan
Center, L.W., Environmental Impact Assessment
City Planning and Development Office, Puerto Princesa, Palawan

ANNEXES

SBRS Picture
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Physical / Chemical Results of Water Analysis
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Discharge Permit
Permit To Operate
Buildings Plan
Electrical Plans
Mechanical Plans

I. EXECUTIVE SUMMARY

Project Name:	**SHERIDAN BEACH RESORT AND SPA**
Project Location:	**SITIO SABANG, CABAYUGAN, PUERTO PRINCESA CITY, PALAWAN**
Proponent Name:	**JECO DEVELOPMENT CORPORATION**
Pollution Control Officer:	**ENGR. JOSE MARIANO G. GENCIANA**
Contact Person:	**ENGR. MARIA LUZ EMPHASIS**
Tel. No./Fax No./Email :	**pollutioncontrolofficer@sheridanbeachresort.com**
Project Type :	**RESORTS/TOURISM/LEISURE PROJECT**
Project Status :	**EXISTING FACILITIES WITH ECC AMENDMENTS FOR EXPANSIONS**

1.0 PROJECT DESCRIPTION

Sheridan Beach Resort and Spa, a paradise that lies in the heart of the Philippines' No. 1 Island, Palawan.

Sheridan Beach Resort and Spa is the gateway to the natural, unspoiled beauty and wonders of Palawan.

The premier property of Sheridan Beach Resort and Spa lies and nestled between the towering mountain ranges and the clear blue waters of the West Philippines Sea. It is the first green resort in the Philippines known to champion environmental sustainability in Sabang Beach, barangay Cabayugan, in the City of Puerto Princesa, Palawan, one of the country's most protected areas.

Sheridan Beach Resort and Spa (SBRS) is primarily a profit oriented business venture. Its goals and objective is to maximize the land utilization of its project site in creating and constructing buildings facilities and amenities so that it can be competitive in the international market of hotels and resorts, offering utmost comfort and luxuries and enjoyment to its guests, thereby maximizing profits too.

The beach resort offers to local and foreign countries an experience of world of wonderment of jungle trails, mangrove forest, organic farming with experience of farm management techniques, best eco-tourism practices and where the sun, sand, sea, mountains and migrating birds meet with an unforgettable holiday of adventure and relaxation.

The approximate distance relative to the Protected Areas and RAMSAR Sites in the province of Palawan from the Sheridan Beach Resort and Spa is given in the Table following:

Name	Legal Basis	Legal Status	Proximate Distance from the Project Site
Calauit Island Game Preserve and Wildlife Sanctuary	Proc. No. 1578, s. 1976	Initial Component	258.09 km
Mt.Mantalingahan Protected Landscape	Proc. No. 1815, s. 2009	Proclaimed	203.44 km
Entire Province of Palawan- (Mangrove Swamp Forest Reserve)	Proc. No. 2152, s. 1981	Initial Component	915.51 meters (to Sabang Mangrove Swamp Forest)
Tubbataha Reefs Natural Park	RA No. 10067, s. 2010 Proc. No. 1126, s. 2006	Legislated	187.98 km
Rasa Island Wildlife Sanctuary	Proc. No. 1000, s. 2006	Proclaimed	118.53 km
El Nido Managed Resource Protected Areas	Proc. No. 342, s. 2000	Proclaimed	126.79 km
Palawan Game Refuge and Bird Sanctuary	Proc. No. 219, s. 1967	Initial Component	255.84 km
Puerto Princesa Underground River	Proc. No. 212, s. 1999	Proclaimed	3.22 km
Malampaya Sound Protected Landscape	Proc. No. 342, s. 2000	Proclaimed	88.72 km
Palawan Flora And Fauna WFR (Parcel 1)	Proc. No. 2221, s. 1982	Initial Component	45.09 km
Palawan Flora and Fauna WFR (parcel 2)	Proc. No. 2465, s. 1985	Initial Component	48.39 km

The project is specifically located at Sitio Sabang, Barangay Cabayugan, Puerto Princesa City. It contains an area of about 33,688 square meters. It is bounded in the south by lot 20790, cadastral 800-D, on the west by lot 20632, cadastral 800-D, on the north by South China Sea and on the east by lot 20778, cadastral 800-D. It is accessible by any means of land transportation passing through the concrete road of north national highway and an all-weather road of Salvacion to Cabayugan.

The City lies at the mid-section of the long strip of Palawan Island province. It is approximately 306 nautical miles from Manila, 206 nautical miles to Panay Island and about 250 nautical miles to Zamboanga. The municipality of Aborlan is to the south and the municipalities of San Vicente and Roxas are to the north. Its western side is a coastline of the South China Sea while to the East lies the Sulu Sea.

Total land area is 255,107.00 hectares or 2,551.07 square kilometers covering a stretch over 106 kilometers long with the northwest breadth of 8.5 kilometers in Barangay Bahile

The City has now 35 urban barangays and 31 rural barangays or a total of 66 barangays. Eleven of the 35 urban barangays were reclassified from being rural in 1998, indicating a rapid urbanization of the city.

Sheridan Beach Resort and Spa (SBRS) and its developer Jeco Development Corporation (JDC) is having an opportunity of internationally converting the beach hotel into Four Points by Sheraton Palawan and to be operated and managed by Renaissance Hotels International / Marriott International Corporation.

This will be the first of Marriott International's beach resort in the Philippines with top end amenities.

The development will have three (3) phases of construction activities. The (a) interior renovations and upgrading of the existing buildings and facilities (b) construction of new buildings and facilities (c) expansion and renovation

- Interior Renovation of Buildings A, B, C hotel guest rooms, Lobby/Reception, Convention Hall and BOH Offices.
- New Buildings for Building D hotel guests rooms, warehouse, dormitory 2 (for managers and supervisors), powerhouse, and new advance technology STP facility, BOH Kitchen.
- Expansion and/or Renovation of the ADD Restaurant, P Club and Dormitory 1 (for associates and staff).

The existing capacity of the number of guest rooms is 168 and the expansion will have an additional 72 rooms giving a total capacity of 240 guest rooms (suites, double bed, King).

Sheridan Beach Resort and Spa was initially issued an Environmental Compliance Certificate (ECC) by the Department of Environment and Natural Resources – Environmental Management Bureau on November 26, 2007. Subsequent amendments of the said ECC were granted on March 11, 2010 and on November 03, 2016 which cover the present existing facilities.

The company is again, requesting for another amendments for its ECC, for its Expansion Project, to wit:

1. Increase in its project site/area from 33,688 square meters to 50,917 square meters;
2. Additional building facilities and renovation and expansion of existing facilities which shall be described later following;
3. Earth Filling Works of about 5,000 square meters within its project site
4. Changing of Power Supply from Generator Sets to One Hundred Percent Solar Power
5. Changing the STP from Rotating Biological Contactors with Trickling Filters and Rapid Sand Filters to Membrane Bioreactor (MBR) with Oxidation Pond and using Solar Batch Bed Dryer for Sludge Recovery;
6. Change of Management in hotel operation from and by JECO Development Corporation to and by Renaissance Hotels International Corporation/Marriott International Corporation.
7. Change of project name from Sheridan Beach Resort and Spa to Four Points by Sheraton Palawan.

The construction of the additional structures and facilities of the project is intended to meet the present and increasing demand of visitors, both foreigners and locals, and at the same time to bolster the development thrust of the City of Puerto Princesa in developing its eco-tourism potential.

All of the additional facilities and amenities will be implemented strictly in accordance with the approved site development plan to maintain their compliance to quality and as per requirements by the concerned government agencies. The structures which are made of reinforced concrete and structural steel frames shall conform to the general design and construction requirements of the National Building Code of the Philippines. Likewise, the electrical design and sanitary and mechanical plans shall be in conformity with the minimum design standards of electrical,
fire, safety, mechanical and sanitary codes, of the Philippines. Philippine architecture for tropical environment shall be adopted in the over-all design and motif of the facilities. The buildings shall be furnished with adequate furnitures and furnishings.

All these amendments are desired to enhance the competitiveness and the quality of amenities and services of the company. The company is now raising its status to international standards to give a total engagement and enjoyment and satisfaction of its guests.

Project Fact Sheet

Name of the Project	**SHERIDAN BEACH RESORT AND SPA**	
Proponent Name	**JECO Development Corporation**	
Proponent Address	**Sheridan Bldg., Ouano Avenue, North Reclamation Area, Mandaue City, Cebu**	
Authorized Representative	**Name** **Engr. Maria Luz Emphasis**	**Designation** **External Affairs Director**
Proponent Means of Contact	**Landline No.** 4341449	**Fax No.** 4341448

Project Type	**Project Size Parameter**	**Project Size**
Hotel / Resort	Project / gross floor area shall be the sum/total of total/gross floor area (of structures) plus open areas and other facilities (e.g., landscape, parking, pools)	61,544 sq. meters

Project Location And Area:

Street/Sitio/Barangay; Sitio Sabang, Brgy Cabayugan	Zoning Classification: Tourist Zone	
Region: R4B	City/Municipality: Puerto Princesa City	Province: Palawan
Total Project Land Area: 50,917 sq. meters	Total Project/Building Footprint Area: 15,250 sq. meters	

Expansion Category o Check all applicable changes in the proponent's operation	o New product / process:___NA_____ o Increase in production capacity from____NA_____ to__NA_____ o Increase in production area from___NA_____ to __NA_____ ✓ Increase in no. of facilities/equipment ✓ Others: Increase in land area and renovations of existing facilities	
Project Land Area	Existing Land Area	33,688 SQ. M.
	Proposed Expansion	17,229 SQ. M.
	Total land area	50,917 SQ. M.
Building Footprint Area	Existing building footprint Area	8,236 SQ.M.
	Proposed Expansion (if any)	7,014 SQ.M.
	Total Building footprint	15,250 SQ.M.
Project Proponent:	JECO DEVELOPMENT CORPORATION	
Office Address:	SITIO SABANG, CABAYUGAN, PUERTO PRINCESA CITY, PALAWAN	
Contact Person:	ENGR. JOSE MARIANO G. GENCIANA	
Designation:	POLLUTION CONTROL OFFICER	
Contact Numbers: Landline:	4341449	
Fax Number:	4341448	
Mobile :	09173066984 / 09176313479	
E-mail Address:	pollutioncontrolofficer@sheridanbeachresort.com	

The project site/area is protected partly by a concrete fence on the entrance part of the east side and the rest by an EPS wall; by a Green plastic coated metal interlink fence on the west side and continuing up to the south side which is the entrance of the company. Landscaping with planting trees and ornamental plants around and within its perimeter fence shall be undertaken to act as buffer zones and beautification of the project site.

The primary and secondary impact areas during the operation of the project with respect to the following are:

1. Land - As the company has been operating for more than 10 years already in the area, and the area is no longer a virgin land, so no endangered indigenous terrestrial flora and fauna can be found in the said project area.
   Furthermore, as the project area is flat, so there is no changes in the contour of the land. Therefore, there is no primary negative impact on land as well as any secondary Impact.

2. Water - The primary negative impact on water is the wastewater generated by the Company. However, the company will now be installing a new and advance Technology using the Membrane Bio-Reactor (MBR) system which will give an effluent free of any suspended solids, bacteria, protozoa and some viruses. So, the effluent is totally safe to be discharged to the environment.

   The secondary negative impact on water is the depletion of water source. As the company will be using a water district source and deep wells for its water requirement, the negative impact of water source depletion, is potentially possible.
   However, the company is having a 216 cubic meters rainwater catchment tank to offset the groundwater usage.

   Furthermore, the company will recover the wastewater effluent for watering the trees and plants within the project site and possibly for flushing of toilets.

3. Air - There is no more primary nor secondary impacts on air as the company will now be using 100 % solar energy for its electrical usage

4. People – The Primary impact on people is positive as it will give the people in the community the opportunity to engage in economic activities and the potential and possibility to work in the company.
   The secondary impact on people is migration. Although increase in population also increases the potential to health issues, however, increase in population is likewise considered as progress.

There is no rationale for selection of primary and secondary impact areas as there is no options to choose from any other impact areas. As the company has already been operating for ten years and the expansion project is still within the same project site, so the same impact areas as described above shall still be considered.

2.0 PROJECT ALTERNATIVES

There are no alternatives as to other project sites and sizes and its components. The company has been operating in its existing location for more than ten (10) already.and the expansion project is still being done in the same project area.

The fact that the company is embarking on expansion project, so it is definitely cannot be going small. Further, the fact, that the company is undertaking an earth filling works of about 5,000 square meters to accommodate its expansion project, it means that its expansion is limited and it cannot expand further as the earth filled area is just enough to accommodate the construction of the additional buildings and facilities for its expansion. The expansion project itself, is becoming the components of the whole project of the company.

Development design and process / technology selections are not applicable in our project as it is not in the manufacturing business that converts raw materials into finished products. Nothing is being processed except the wastewater, which is being treated using the advance technology of Membrane Bioreactor (MBR) which is found to be the best in terms of efficiency to make the wastewater effluent pass the DENR parameter standard.

For water resource utilization, there is no other alternatives uses that the company can find that can be useful or relevant to the expansion project, as it is basically used for drinking (passing first through a Reverse Osmosis process before drinking) and bathing.

Geographic Coordinates of the Project Area (WGS84):

Area	Longitude	Latitude
1	118.897371	10.193274
	118.894889	10.196216
	118.896396	10.196184
	118.896358	10.195677
	118.896358	10.195593
	118.8953661	10.192087


10°11'40"N, 118°53'43"E
accuracy: 6m
Sheridan
BEACH RESORT & SPA
ROOMS
COCO BAR
NATURE SPA
POOL BAR
JACUZZI
GYM
PLAY HOUSE
GIANT CHESS
KIDS CLUB
Altitude
62 m


10°11'39"N, 118°53'43"E
accuracy: 6m
Altitude
81 m


10°11'40"N 118°58'42"E
accuracy: 4m
Altitude
94 m


10°11'44"N, 118°58'43"E
accuracy: 2m
Altitude
66 m


Altitude
64 m
10°11'40"N 118°58'44"E
accuracy: 8m

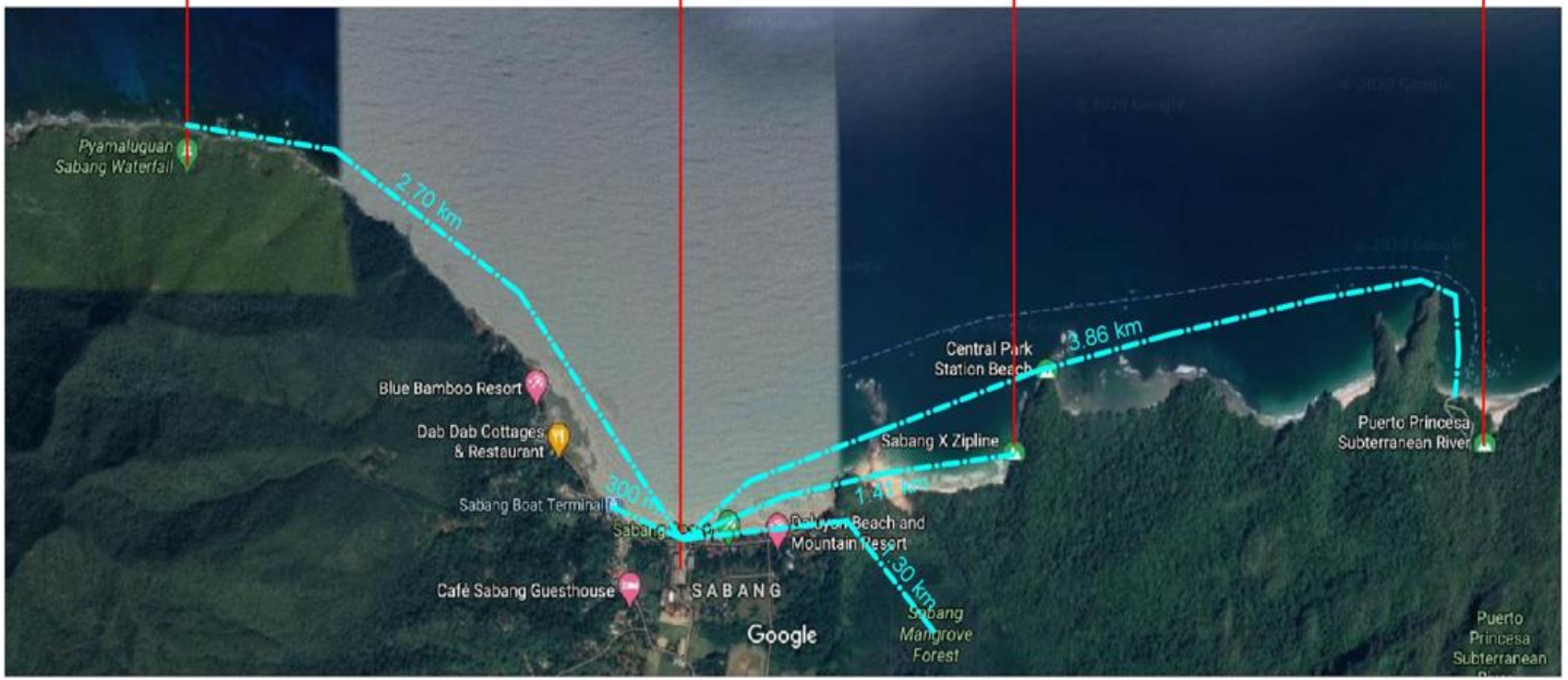
10°11'44"N 118°58'48"E
accuracy: 2m
Altitude
66 m

SABANG WATERFALLS

SHERIDAN BEACH RESORT AND SPA

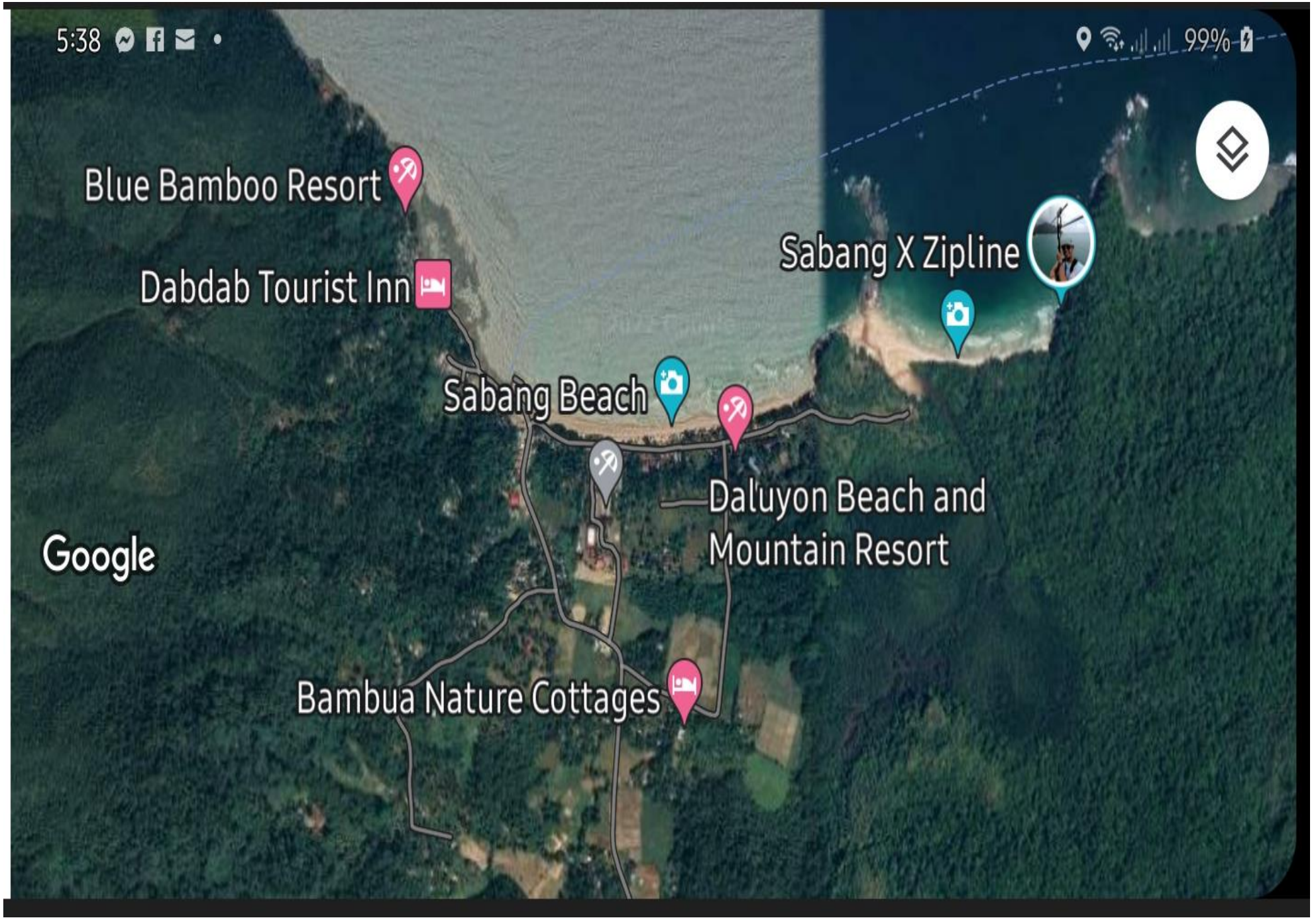
SABANG X ZIPLINE

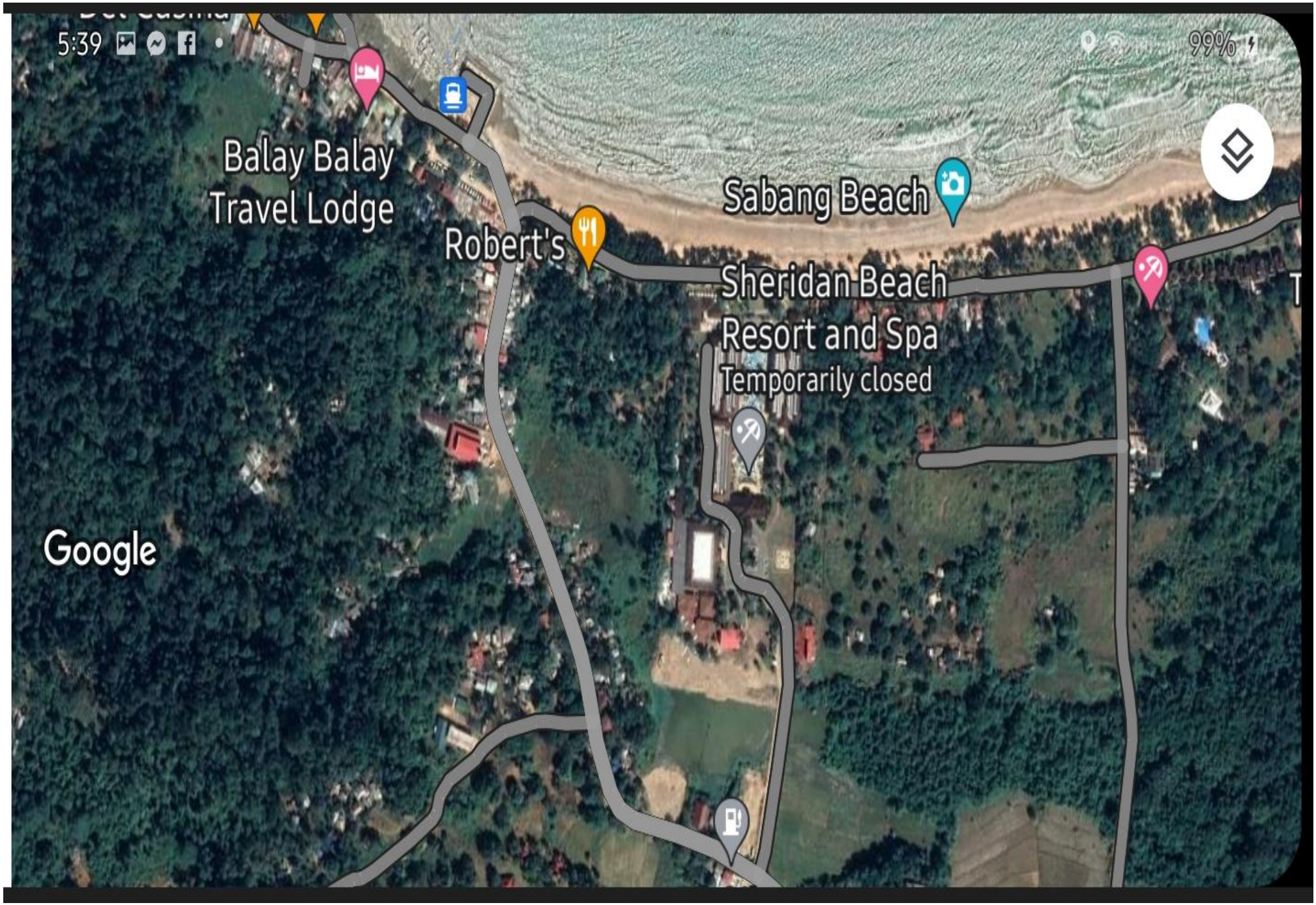
SABANG SUBTERRANEAN RIVER



VICINITY MAP AND LANDMARK

SDP DESIGNER	DEVELOPER	CERTIFIED BY	PROJECT TITLE	OWNER / CLIENT	TITLE / DESCRIPTION	SHEET NO.
JDC ENGINEERING & DESIGN OFFICE JECO DEVELOPMENT CORPORATION 2 FLOOR, SHERIDAN BUILDING, OUANO AVENUE, CEBU CITY PHILIPPINES	JECO DEVELOPMENT CORPORATION 2 FLOOR, SHERIDAN BUILDING, OUANO AVENUE, CEBU CITY PHILIPPINES	ENGR. JOSE MAR. G. GENCIANA CIVIL ENGINEER TIN NO. : 417-622-224 PRC NO. : 0046681/1998 PTR NO. : P-No. 2661605 / 2020 DRAFTED BY : JDC/RMA	FOUR POINTS BY SHERATON PALAWAN LOCATION: CABAYUGAN, PUERTO PRINCESSA, PALAWAN	JEFFERSON C. TAN JECO DEVELOPMENT CORPORATION	VICINITY MAP AND LANDMARK REVISION NO. 31C DATE : 16 SEPT. 2020	1 SDP


5:38
99%
Blue Bamboo Resort
Dabdab Tourist Inn
Sabang X Zipline
Sabang Beach
Daluyon Beach and
Mountain Resort
Google
Bambua Nature Cottages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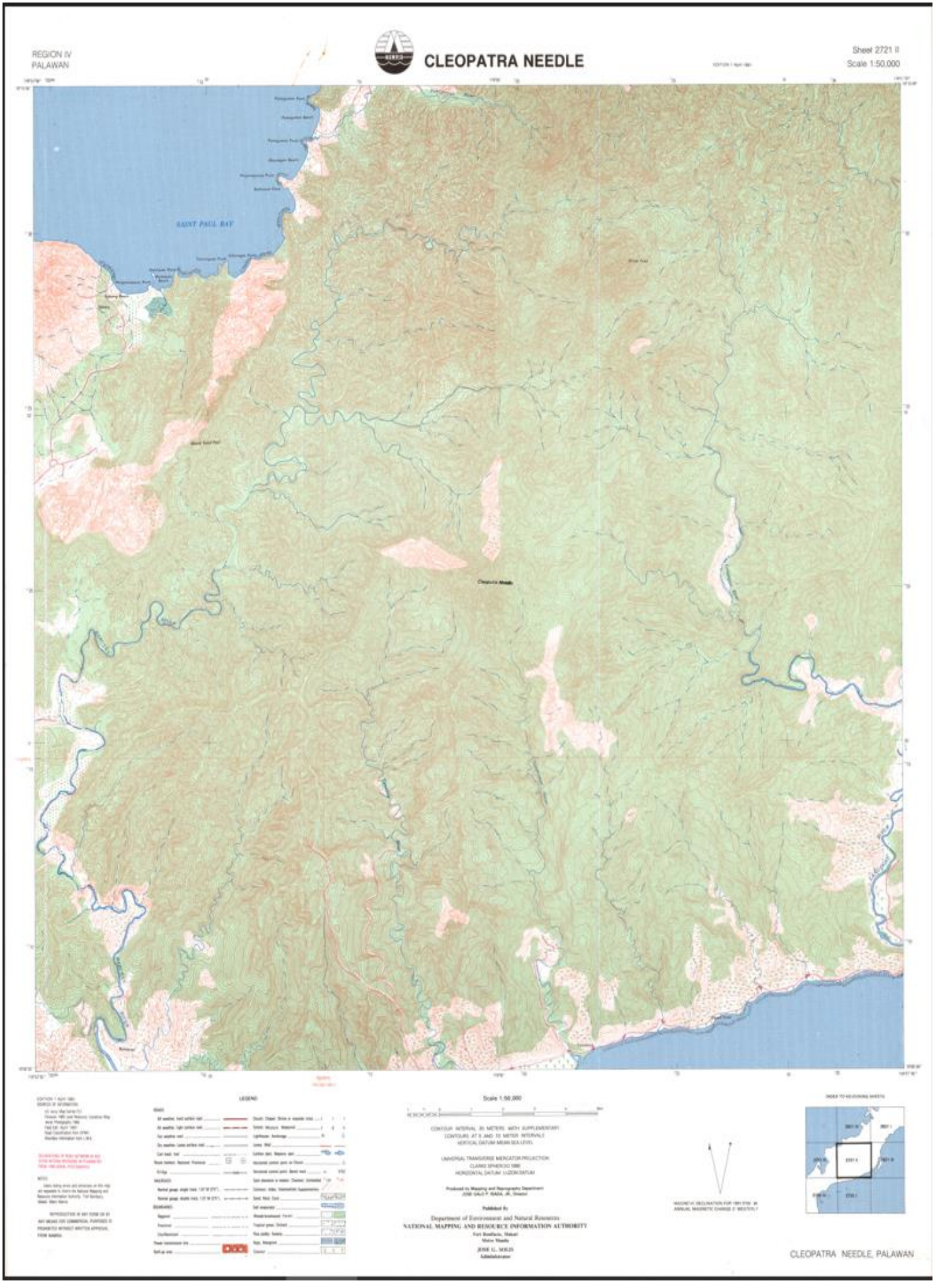
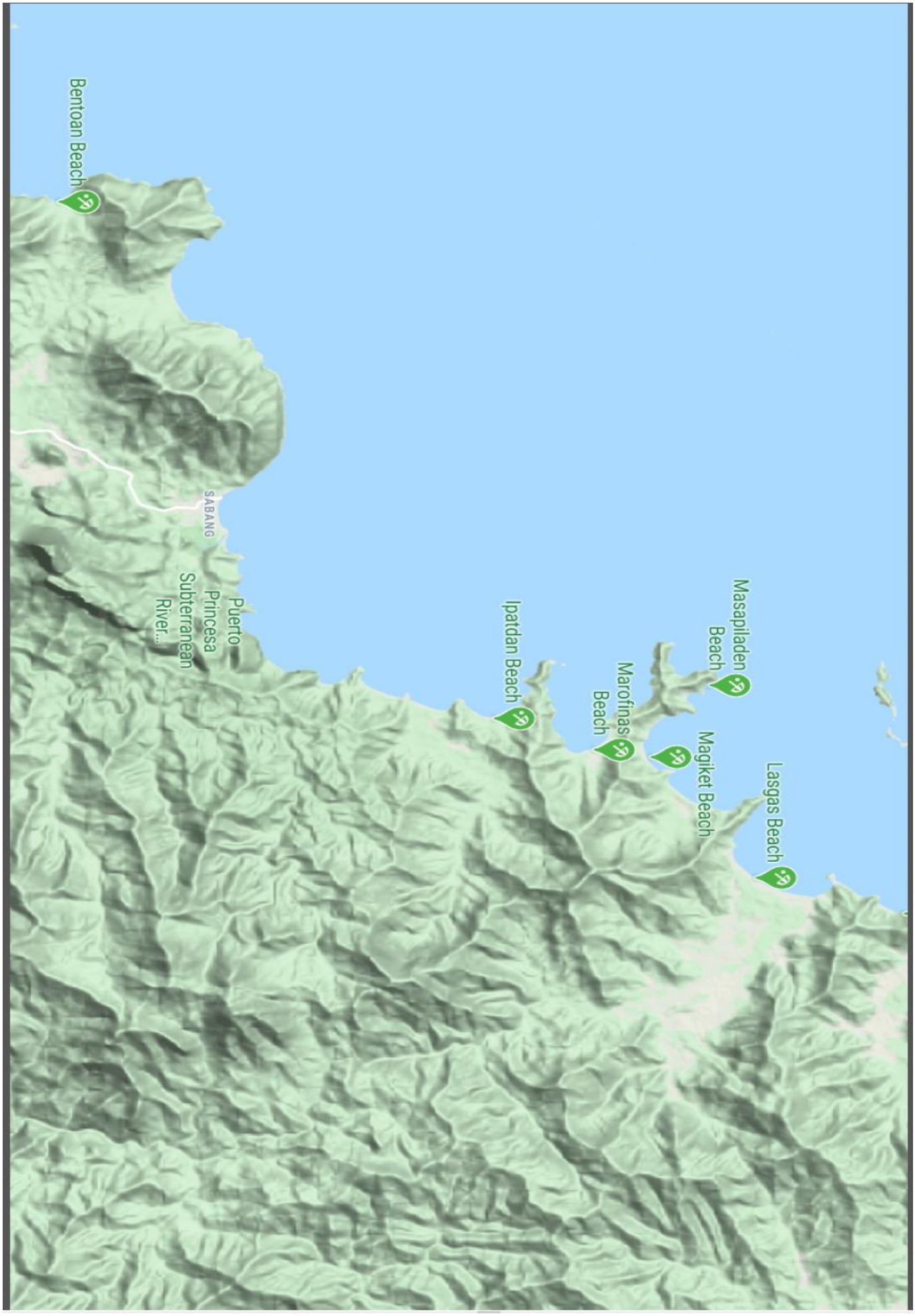
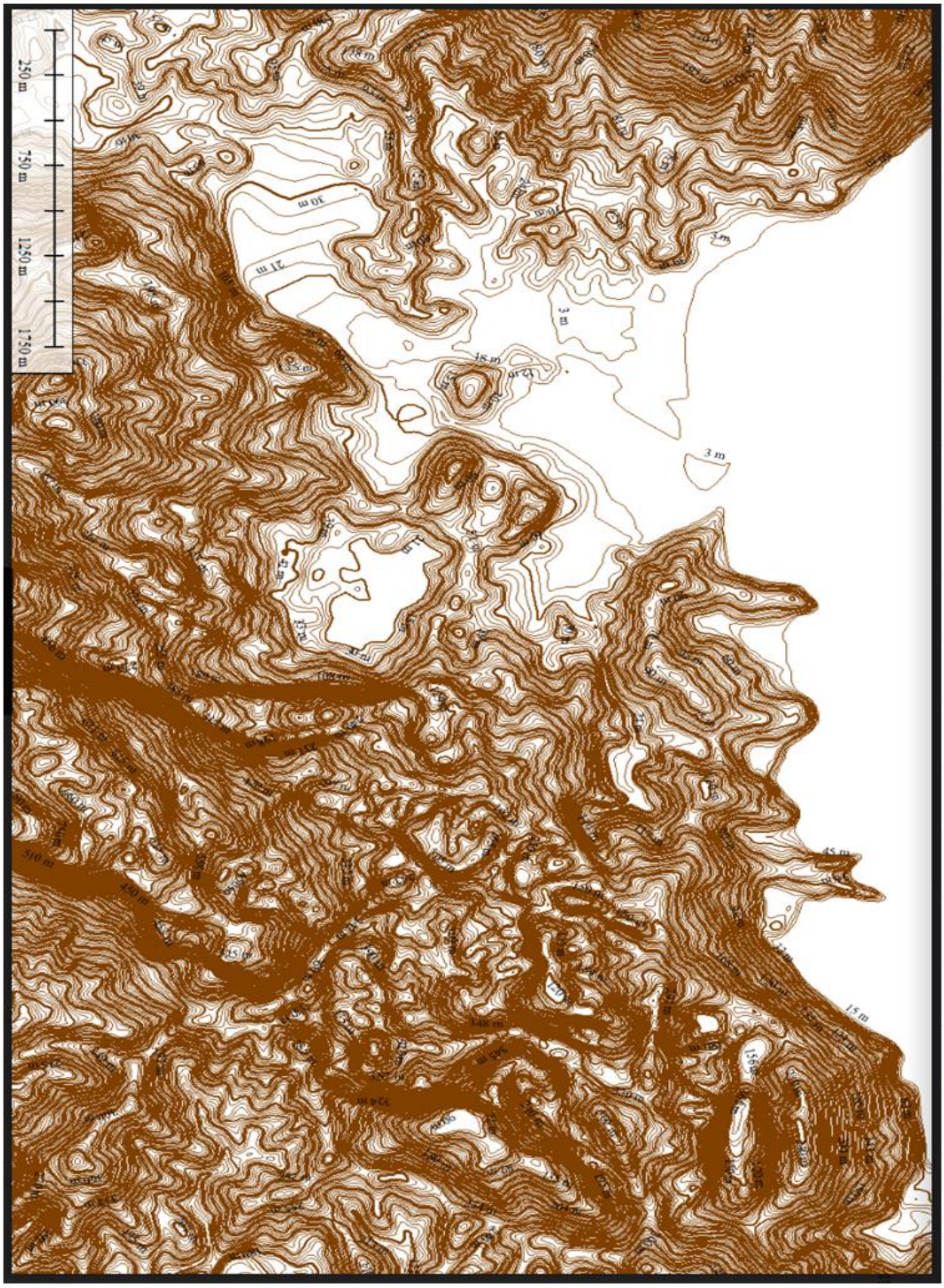
99%
Balay Balay
Travel Lodge
Robert's
Sabang Beach
Sheridan Beach
Resort and Spa
Temporarily closed
Google


REGION IV
PALAWAN
CLEOPATRA NEEDLE
Sheet 2721 II
Scale 1:50,000
SAINT PAUL BAY
Cleopatra Needle
LEGEND
Scale 1:50,000
CONTOUR INTERVAL 20 METERS, WITH SUPPLEMENTARY
CONTOURS AT 5 AND 10 METER INTERVALS
VERTICAL DATUM MEAN SEA LEVEL
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
CLARKE SPHEROID 1866
HORIZONTAL DATUM: LUZON DATUM
Department of Environment and Natural Resources
NATIONAL MAPPING AND RESOURCE INFORMATION AUTHORITY
JOSE G. SOLIS
Administrator
CLEOPATRA NEEDLE, PALAWAN


Bentoan Beach
SABANG
Puerto Princesa Subterranean River...
Ipatdan Beach
Marofinas Beach
Masapiladen Beach
Magiket Beach
Lasgas Beach

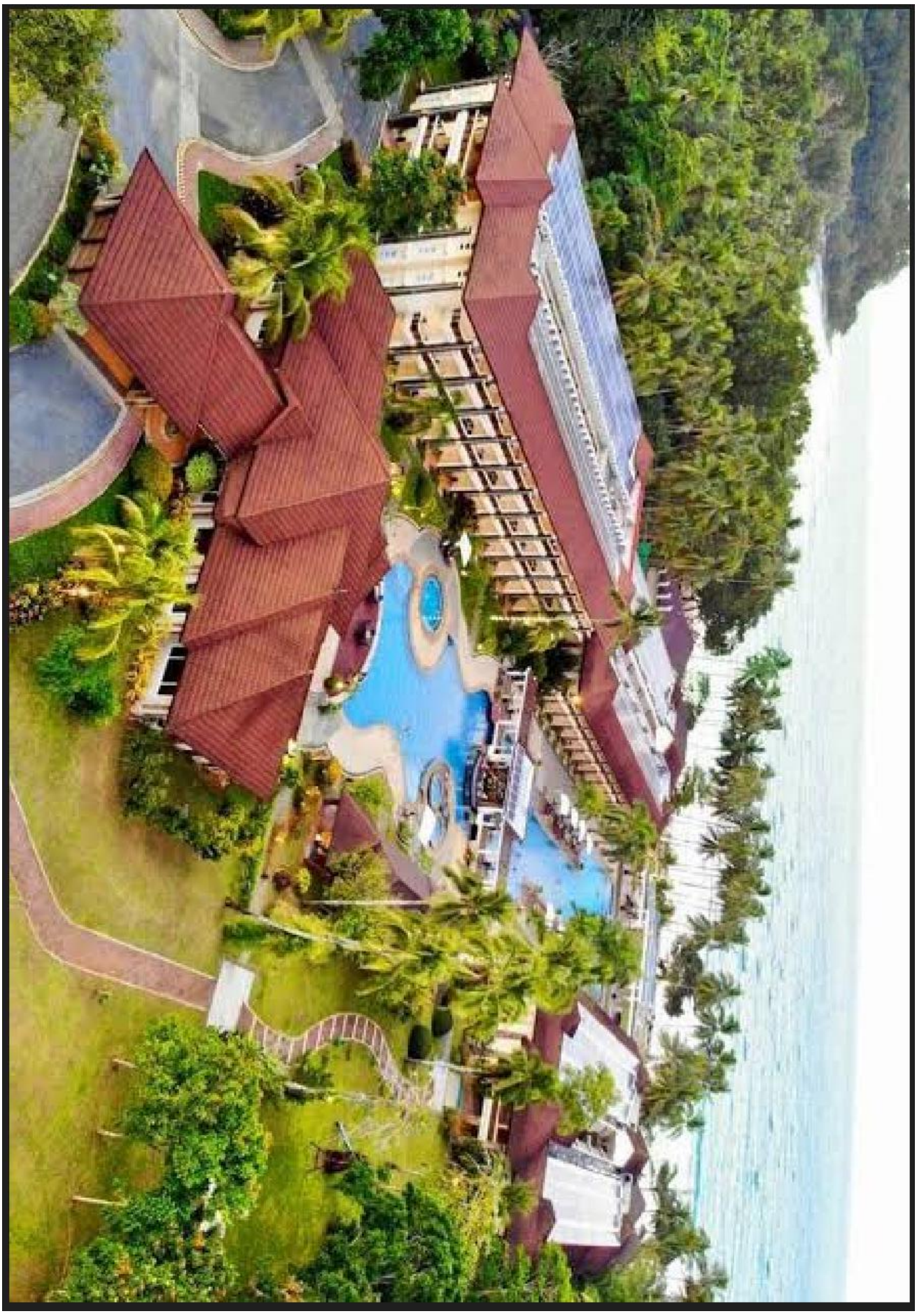

250 m
750 m
1250 m
1750 m
30 m
21 m
3 m
3 m
45 m
15 m
148 m
510 m
450 m

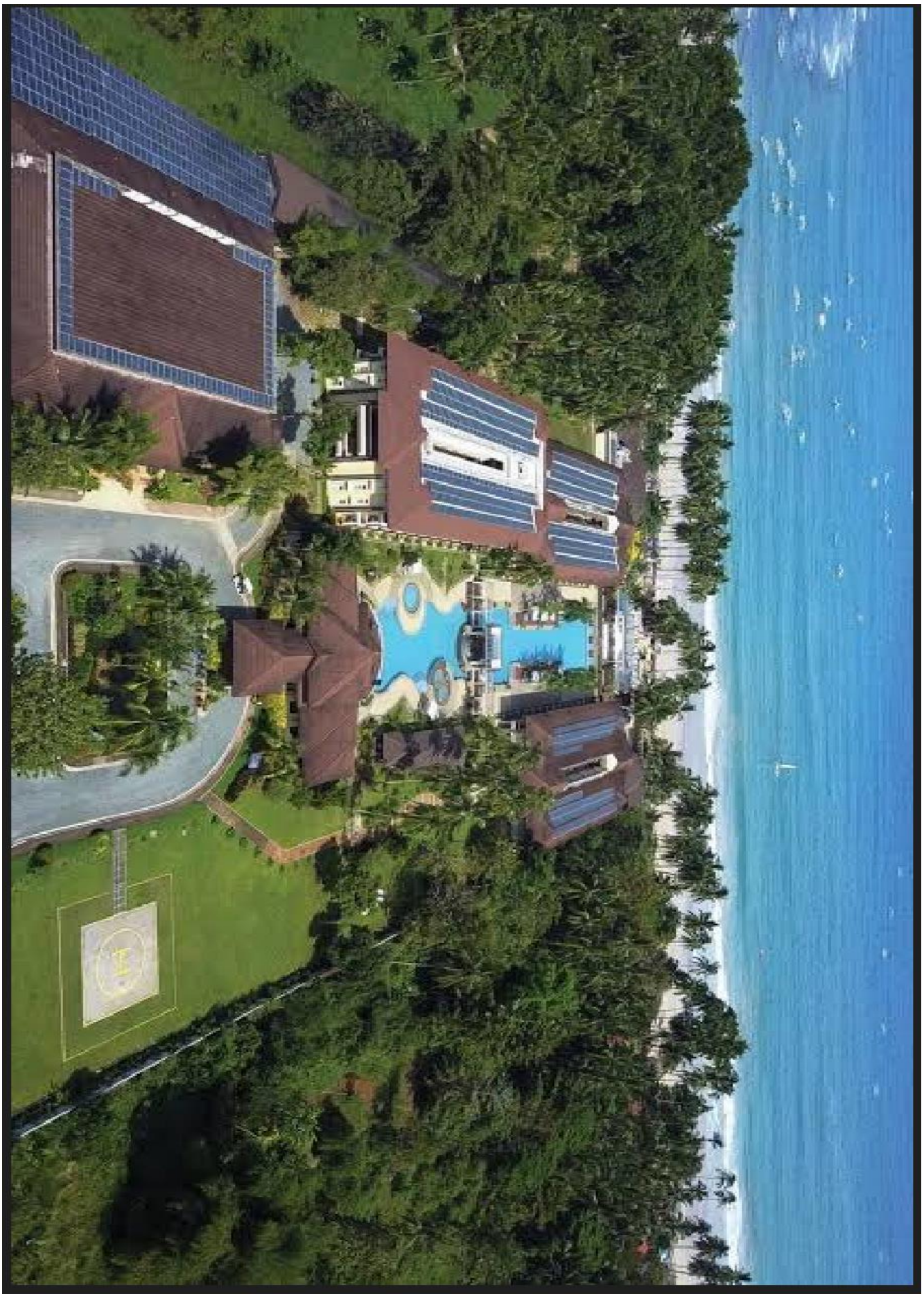

PALAWAN
PUERTO PRINCESA CITY
PUERTO PRINCESA BAY
HONDA BAY
ULUGAN BAY
FISH BAY
Camungyan Island
Northwest Head
Escabrosa Point
Cleopatra Needle
Bentoan Peak
Mangrove P
Tanabag
Babuyan
Fondeadero Island
Buenavista
Harbor Hill
Conical Hill
Manuyogon
Rita Island
Bahile
Mount Peel
Mount Bahaui
Sta. Cruz
Tagcasayan Big Point
Hen and Chickens Island
Tapul Island
Bush Island
Buquias Island
Arrecife Island
Kalungpang Island
Fraser Island
Makesi Island
Calion Island
Ramesamy Island
Bacungan
Nagtabon Point
Tangcap Point
Bluff Point
Mount Herschel
Sicsican
Irawan
Mount Beaufort
Sta. Monica
Simpocan
Bagong Bayan
Thumb Peak
Napsan
Mulamig
Iwahig
Iwahig Penal Colony
Mount Stanely
Shirt Point
Penascosa Point
Anepahan
Anepahan Point
Tolobaen Point
Panagurian Point
South Rock Island
Manuyduc Point
Bobosawan Point
Long Point
Moonsom Point
Pearled Island
Central Peak
Anepahan Peak
Mount Aboplan
Apoyasan
Kulangdanum
Inagapasan
Sagpangan
Barake
Calapsan
Apoc-apoc
Dumaguana
Isaub
Tagbarungis Point
Kamaning
Mission Point
Pontog Island
Malanao Island
Sta. Jose
San Miguel
Isaburos
Long Point
Creek Point
Bancaobancaon Point
Mangyida
Rumuldum Bay

THIRD DISTRICT
PUERTO PRINCESA CITY
PUERTO PRINCESA
SULU SEA
PALAWAN


KALAYAAN
ISLAND
GROUP
PALAWAN


top/For%20Client/17%20Regions/MIMAROPA%20REGION.jpg
ADMINISTRATIVE MAP
REGION IV-B
Approximate Scale 1:1,300,000
KALAYAAN
ISLANDS
GROUP
WEST PHILIPPINE SEA
SULU SEA
MIMAROPA REGION



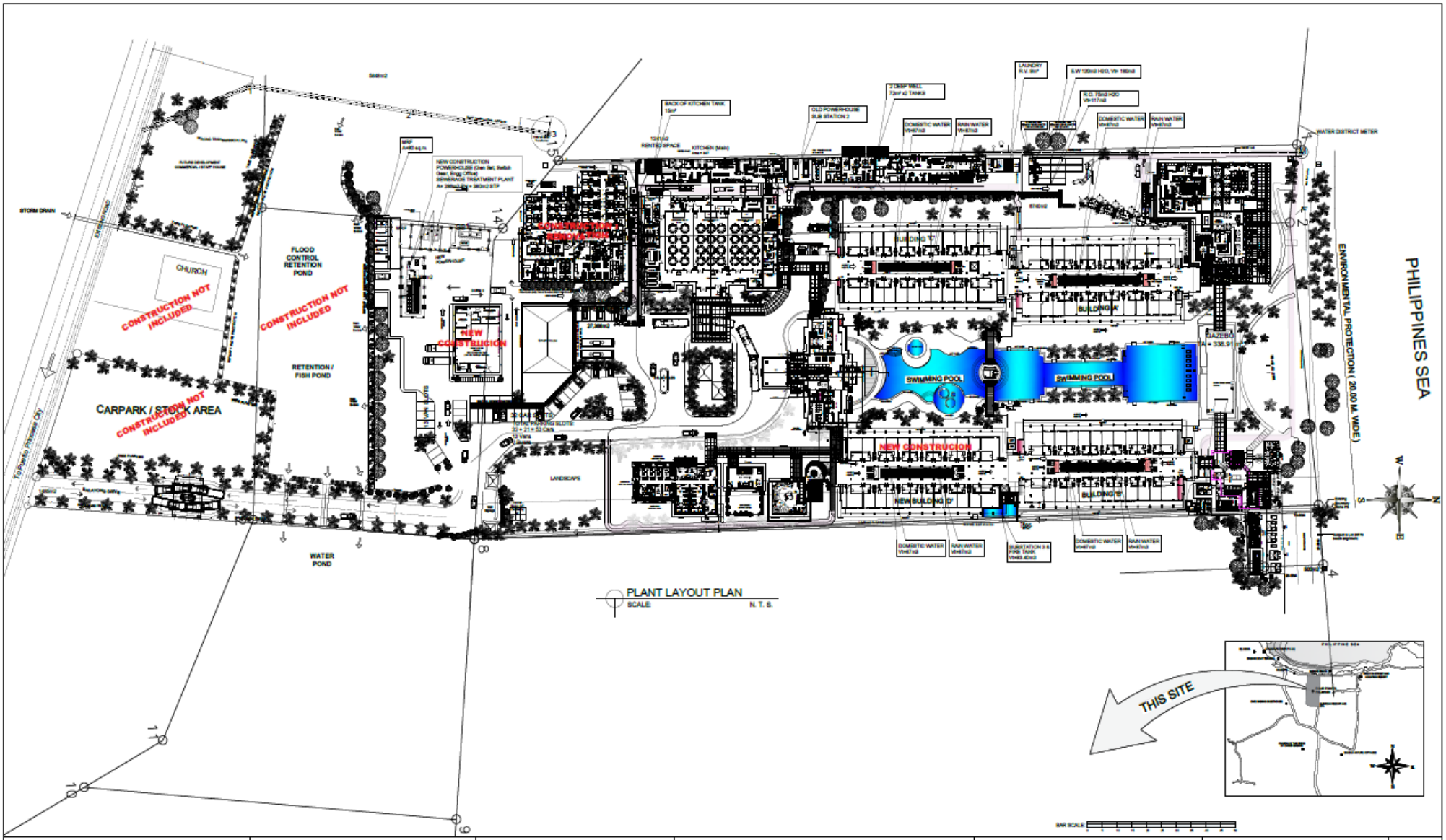


TECHNICAL DESCRIPTION		
LINES	BEARINGS	DISTANCES
CONS-BDRY		
1–2	S 79° 37' E	26.00 m.
2–3	N 89° 00' E	94.42 m.
3–4	S 89° 42' E	20.02 m.
4–5	S 02° 38' W	20.00 m.
5–6	S 02° 38' W	5.00 m.
6–7	N 89° 43' W	20.02 m.
7–8	S 02° 38' W	261.74 m.
8–9	S 81° 19' E	93.44 m.
9–10	S 09° 47' W	126.78 m.
10–11	N 25° 15' W	30.94 m.
11–12	N 62° 25' W	79.48 m.
12–13	N 83° 27' W	104.00 m.
13–14	N 09° 47' E	82.12 m.
14–15	N 45° 16' W	29.42 m.
15–1	N 03° 44' E	250.76 m.
TIE LINE: N 16° 59' E, 52,796.13 m.; From CAD-800-D, BLLM 1 to Corner Marked "1":		

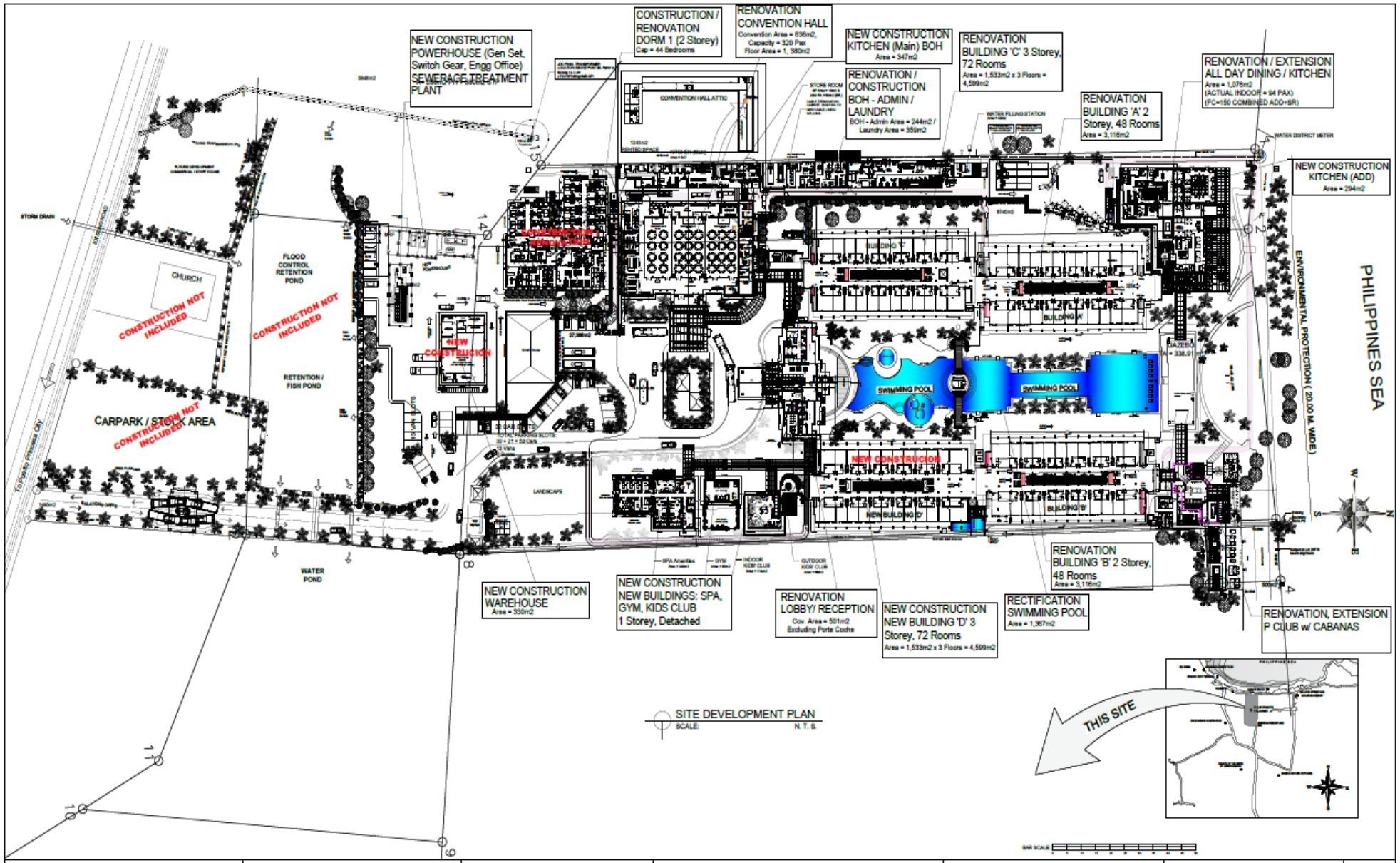
LOCATION MAP
SCALE: N. T. S.

BAR SCALE:

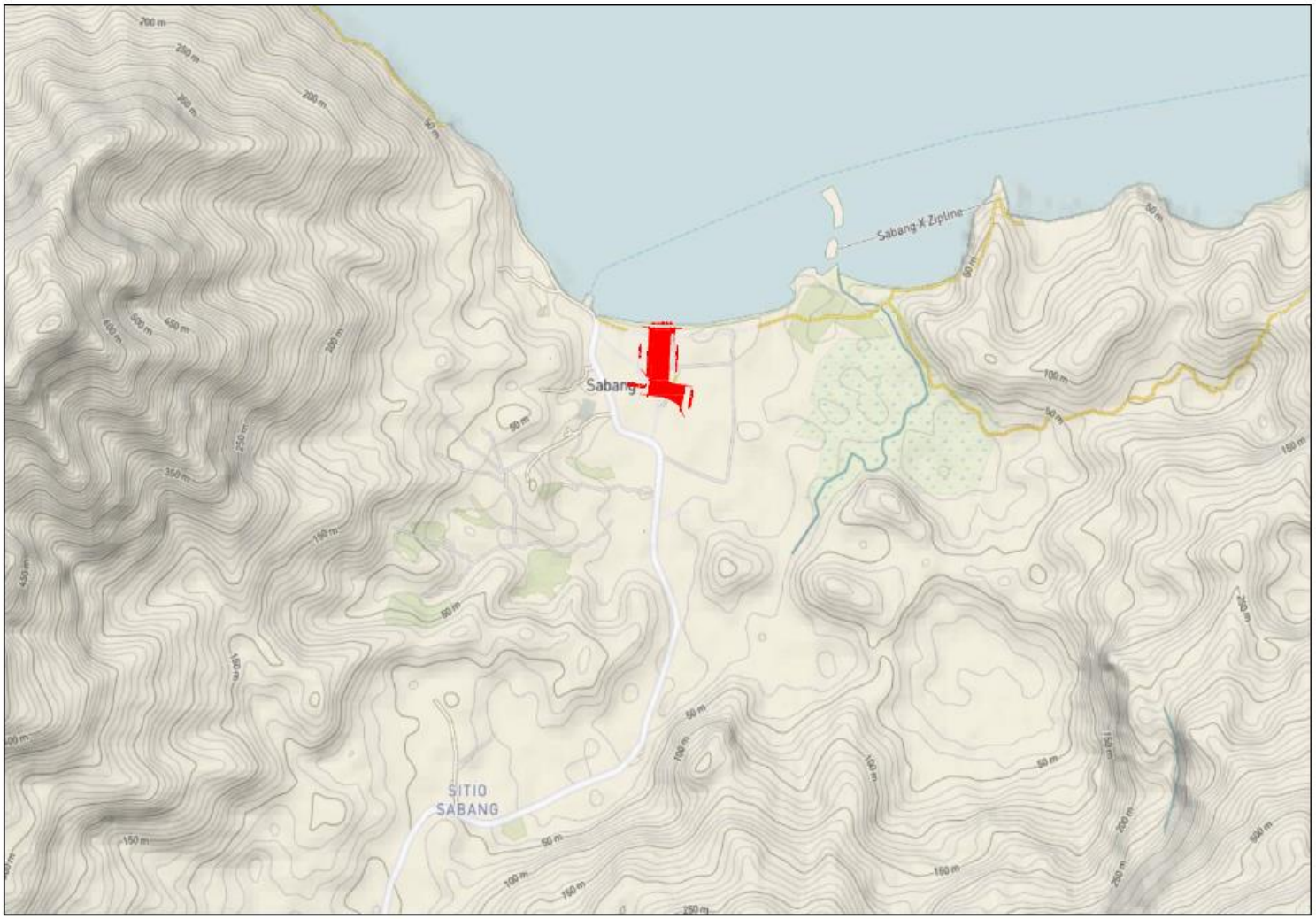
SDP DESIGNER:	DEVELOPER:	CERTIFIED BY:	PROJECT TITLE:	OWNER / CLIENT:	TITLE / DESCRIPTION:	SHEET NO:
JDC ENGINEERING & DESIGN OFFICE JECO DEVELOPMENT CORPORATION 2 FLOOR, SHERIDAN BUILDING, OLIVAS AVENUE, CEBU CITY PHILIPPINES	JECO DEVELOPMENT CORPORATION 2 FLOOR, SHERIDAN BUILDING, OLIVAS AVENUE, CEBU CITY PHILIPPINES	CIVIL ENGINEER TIN NO.: PRC NO.: PTR NO.: DRAFTED BY:	FOUR POINTS BY SHERATON PALAWAN LOCATION: CABAYUGAN, PUERTO PRINCESSA, PALAWAN	JEFFERSON C. TAN JECO DEVELOPMENT CORPORATION	RECLAIMED AREA	R44 SDP



SDP DESIGNER :	DEVELOPER :	CERTIFIED BY :	PROJECT TITLE :	OWNER / CLIENT :	TITLE / DESCRIPTION :	SHEET NO :
JDC ENGINEERING & DESIGN OFFICE JECO DEVELOPMENT CORPORATION 3 FLOOR, SHERDAN BUILDING, OLIMO AVENUE, CEBU CITY PHILIPPINES	JECO DEVELOPMENT CORPORATION 3 FLOOR, SHERDAN BUILDING, OLIMO AVENUE, CEBU CITY PHILIPPINES	CIVIL ENGINEER TIN NO. : PRC NO. : PTR NO. : DRAFTED BY :	FOUR POINTS BY SHERATON PALAWAN LOCATION: CABAYUGAN, PUERTO PRINCESSA, PALAWAN	JEFFERSON C. TAN JECO DEVELOPMENT CORPORATION	PLANT LAYOUT	R44 SDP


CONSTRUCTION / RENOVATION DORM 1 (2 Storey)
Cap = 44 Bedrooms
RENOVATION CONVENTION HALL
Convention Area = 636m2, Capacity = 320 Pax
Floor Area = 1, 380m2
NEW CONSTRUCTION KITCHEN (Main) BOH
Area = 347m2
RENOVATION BUILDING 'C' 3 Storey, 72 Rooms
Area = 1,533m2 x 3 Floors = 4,599m2
RENOVATION / EXTENSION ALL DAY DINING / KITCHEN
Area = 1,076m2
(ACTUAL INDOOR = 94 PAX)
(FC=150 COMBINED ADD+SR)
NEW CONSTRUCTION POWERHOUSE (Gen Set, Switch Gear, Engg Office)
SEWERAGE TREATMENT PLANT
RENOVATION / CONSTRUCTION BOH - ADMIN / LAUNDRY
BOH - Admin Area = 244m2 / Laundry Area = 359m2
RENOVATION BUILDING 'A' 2 Storey, 48 Rooms
Area = 3,116m2
NEW CONSTRUCTION KITCHEN (ADD)
Area = 294m2
PHILIPPINES SEA
ENVIRONMENTAL PROTECTION (20.00 M. WIDE)
CHURCH
FLOOD CONTROL RETENTION POND
RETENTION / FISH POND
CARPARK / STOCK YARD AREA
CONSTRUCTION NOT INCLUDED
NEW CONSTRUCTION
SWIMMING POOL
WATER POND
NEW CONSTRUCTION WAREHOUSE
Area = 330m2
NEW CONSTRUCTION NEW BUILDINGS: SPA, GYM, KIDS CLUB
1 Storey, Detached
RENOVATION LOBBY/ RECEPTION
Cov. Area = 501m2
Excluding Porte Coche
NEW CONSTRUCTION NEW BUILDING 'D' 3 Storey, 72 Rooms
Area = 1,533m2 x 3 Floors = 4,599m2
RECTIFICATION SWIMMING POOL
Area = 1,367m2
RENOVATION BUILDING 'B' 2 Storey, 48 Rooms
Area = 3,116m2
RENOVATION, EXTENSION P CLUB w/ CABANAS
SITE DEVELOPMENT PLAN
SCALE: N. T. S.
THIS SITE
SDP DESIGNER :
JDC ENGINEERING & DESIGN OFFICE
JECO DEVELOPMENT CORPORATION
2 FLOOR, SHERDAN BUILDING, OLAMO AVENUE, CEBU CITY PHILIPPINES
DEVELOPER :
JECO DEVELOPMENT CORPORATION
2 FLOOR, SHERDAN BUILDING, OLAMO AVENUE, CEBU CITY PHILIPPINES
CERTIFIED BY :
CIVIL ENGINEER
TIN NO. :
PRC NO. :
PTR NO.
DRAFTED BY :
PROJECT TITLE :
FOUR POINTS BY SHERATON PALAWAN
LOCATION: CABAYUGAN, PUERTO PRINCESSA, PALAWAN
OWNER / CLIENT :
JEFFERSON C. TAN
JECO DEVELOPMENT CORPORATION
TITLE / DESCRIPTION :
PLANT LAYOUT
SHEET NO :
R44
SDP

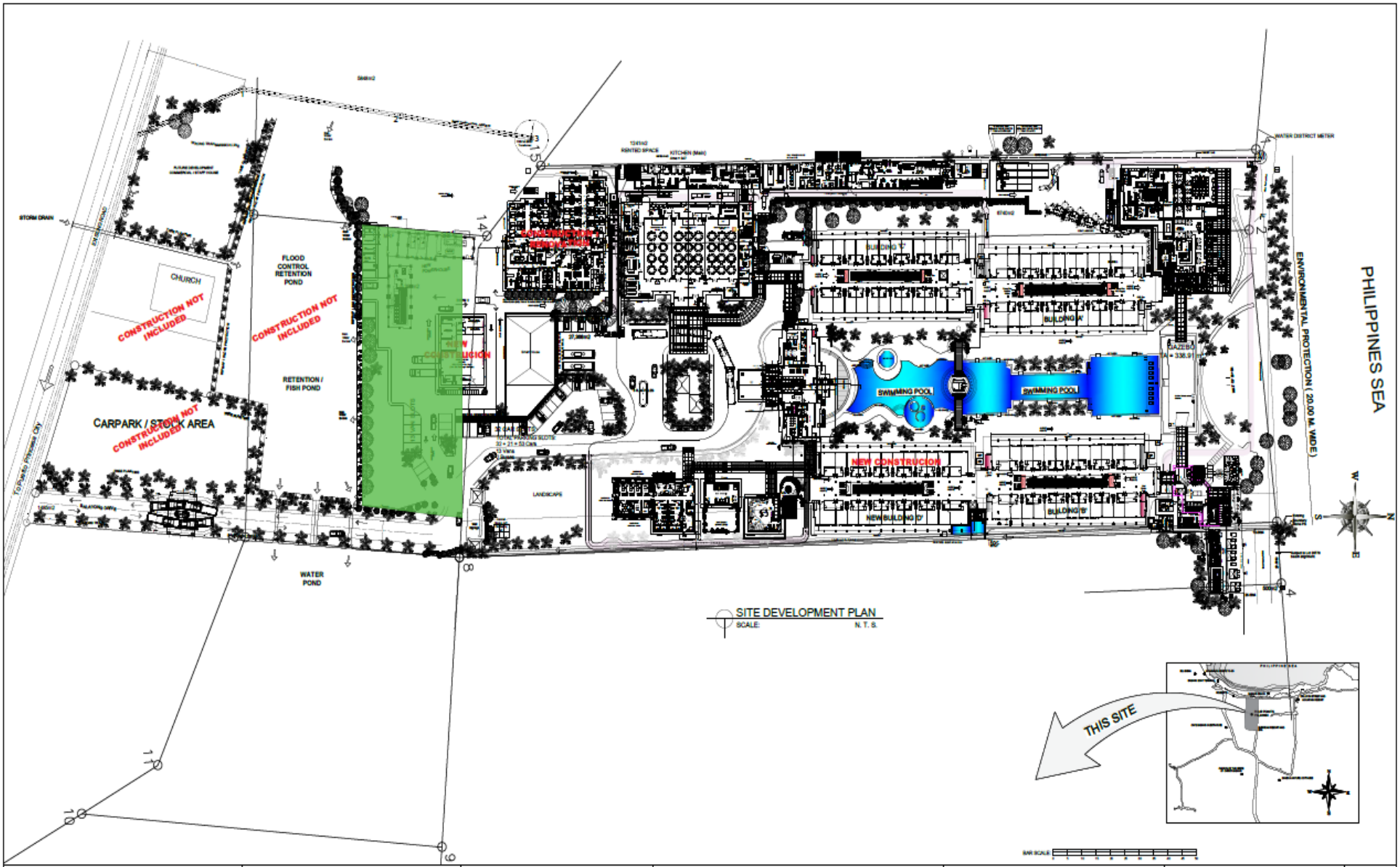
TECHNICAL DESCRIPTION		
LINES	BEARINGS	DISTANCES
CONS–BDRY		
1–2	S 79° 37' E	26.00 m.
2–3	N 89° 00' E	94.42 m.
3–4	S 89° 42' E	20.02 m.
4–5	S 02° 38' W	20.00 m.
5–6	S 02° 38' W	5.00 m.
6–7	N 89° 43' W	20.02 m.
7–8	S 02° 38' W	261.74 m.
8–9	S 81° 19' E	93.44 m.
9–10	S 09° 47' W	126.78 m.
10–11	N 25° 15' W	30.94 m.
11–12	N 62° 25' W	79.48 m.
12–13	N 83° 27' W	104.00 m.
13–14	N 09° 47' E	82.12 m.
14–15	N 45° 16' W	29.42 m.
15–1	N 03° 44' E	250.76 m.
TIE LINE: N 16° 59' E, 52,796.13 m.; From CAD–800–D, BLLM 1 to Corner Marked "1":		



LOCATION / TOPOGRAPHIC MAP
SCALE: N. T. S.

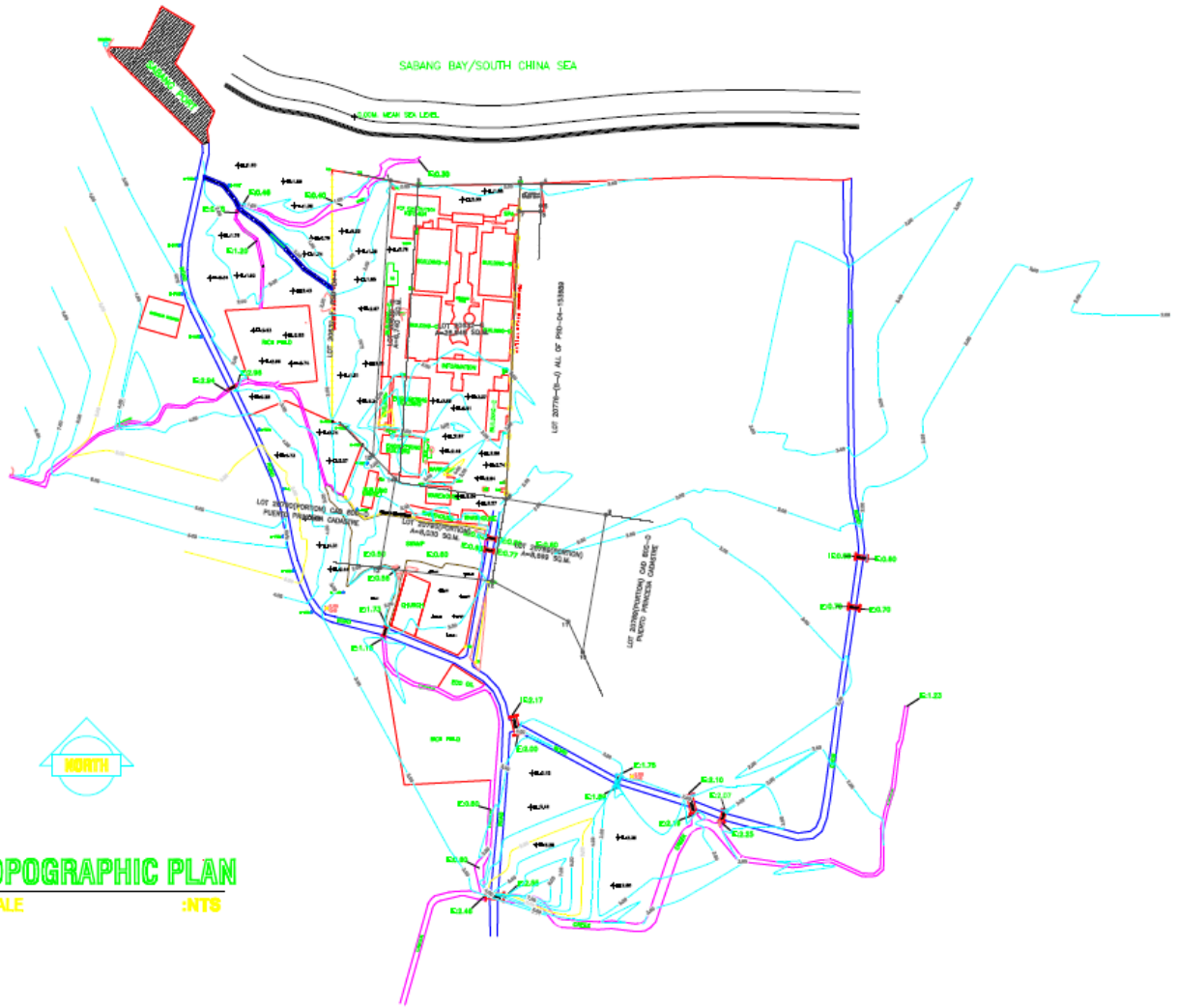
BAR SCALE

SDP DESIGNER:	DEVELOPER:	CERTIFIED BY:	PROJECT TITLE:	OWNER / CLIENT:	TITLE / DESCRIPTION:	SHEET NO:
JDC ENGINEERING & DESIGN OFFICE JECO DEVELOPMENT CORPORATION 2 FLOOR, SHERIDAN BUILDING, CUANO AVENUE, CEBU CITY PHILIPPINES	JECO DEVELOPMENT CORPORATION 2 FLOOR, SHERIDAN BUILDING, CUANO AVENUE, CEBU CITY PHILIPPINES	CIVIL ENGINEER TIN NO.: PRC NO.: PTR NO.: DRAFTED BY:	FOUR POINTS BY SHERATON PALAWAN LOCATION: CAMAYLOBAN, PUERTO PRINCESSA, PALAWAN	JEFFERSON C. TAN JECO DEVELOPMENT CORPORATION	RECLAIMED AREA	R44 SDP



JDC ENGINEERING & DESIGN OFFICE JECO DEVELOPMENT CORPORATION 2 FLOOR, SHERDAN BUILDING, OUANO AVENUE, CEBU CITY PHILIPPINES	JECO DEVELOPMENT CORPORATION 2 FLOOR, SHERDAN BUILDING, OUANO AVENUE, CEBU CITY PHILIPPINES	CIVIL ENGINEER TIN NO. : PRC NO. : PTR NO. : DRAFTED BY :	FOUR POINTS BY SHERATON PALAWAN LOCATION: CABAYUGAN, PUERTO PRINCESSA, PALAWAN	JEFFERSON C. TAN JECO DEVELOPMENT CORPORATION	RECLAIMED AREA	R44 SDP

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



A
1

TOPOGRAPHIC PLAN

SCALE :NTS

TECHNICAL DESCRIPTION		
LINES	BEARINGS	DISTANCES
CONS–BDRY		
1–2	S 79° 37' E	28.00 m.
2–3	N 89° 00' E	94.42 m.
3–4	S 89° 42' E	20.02 m.
4–5	S 02° 38' W	20.00 m.
5–6	S 02° 38' W	5.00 m.
6–7	N 89° 43' W	20.02 m.
7–8	S 02° 38' W	261.74 m.
8–9	S 81° 19' E	93.44 m.
9–10	S 09° 47' W	126.78 m.
10–11	N 25° 15' W	30.94 m.
11–12	N 62° 25' W	79.48 m.
12–13	N 83° 27' W	104.00 m.
13–14	N 09° 47' E	82.12 m.
14–15	N 45° 18' W	29.42 m.
15–1	N 03° 44' E	250.76 m.
TIE LINE: N 16° 59' E, 52,796.13 m.; From CAD–800–D, BLLM 1 to Corner Marked "1".		

GENERAL NOTES:

1. ALL ELEVATION SHALL BE IN METERS RECKONED FROM MEAN SEA LEVEL.
2. CONTOUR INTERVAL IS AT 1M. WITH INDEX CONTOUR AT 5 METER INTERVAL.

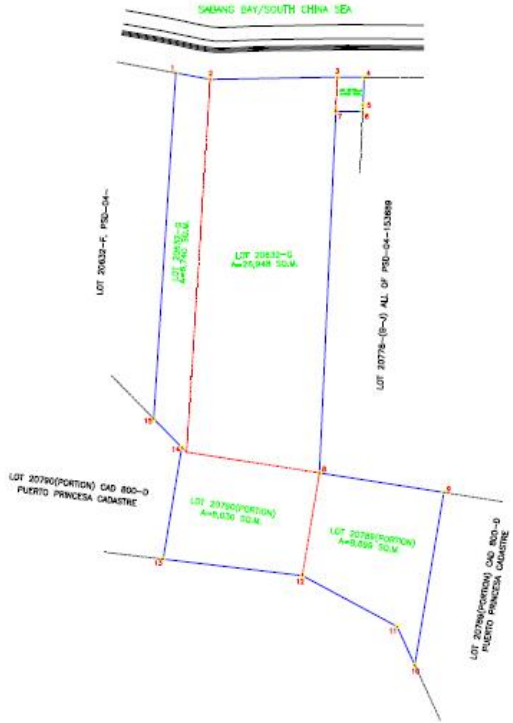
LEGEND:

- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- CREEK — INTERMEDIATE CONTOUR
- SABANG PORT
- CULVERT
- CONCRETE ROAD
- FENCE (G.I. SHEETS)
- FENCE (BARB WIRE)
- FENCE (CONCRETE WALL)
- IE: 0.70 INVERT ELEVATION
- +EL.6.50 SPOT ELEVATION
- BUILDING STRUCTURE
- E–POST PALECO POST
- W.S WATER SYSTEM
- E.S ELECTRICAL SYSTEM
- SWAMP
- ROUGH ROAD

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

GEODETIC ENGINEER :	REG. NO.	6540	PROJECT TITLE / LOCATION :	OWNER :	SHEET CONTENTS :	DRAWN / PLOTTED BY :	SHEET NO.
LUCY JANET N. PASION GEODETIC ENGINEER	DATE	29 JUNE 2005	FOUR POINTS BY SHERATON PALAWAN SITIO SABANG, BARANGAY CABAYUGAN, PUERTO PRINCESA CITY	JECO DEVELOPMENT CORPORATION REPRESENTED BY: JEFFERSON E. TAN APPROVED	TOPOGRAPHIC MAP LEGEND TECHNICAL DESCRIPTION	CHECKED BY :	TM 2 | 2
	PTR NO.	1535766				DATE :	
	DATE ISSUED	10 JANUARY 2022				REVISED BY :	
	PLACE ISSUED	PTO. PRINCESA CITY				DATE :	

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



A 1 SITE DEVELOPMENT PLAN

SCALE

TECHNICAL DESCRIPTION		
LINES	BEARINGS	DISTANCES
CONS-BDRY		
1-2	S 79° 37' E	26.00 m.
2-3	N 89° 00' E	94.42 m.
3-4	S 85° 42' E	20.02 m.
4-5	S 02° 38' W	20.00 m.
5-6	S 02° 38' W	5.00 m.
6-7	N 89° 43' W	20.02 m.
7-8	S 02° 38' W	251.74 m.
8-9	S 81° 19' E	93.44 m.
9-10	S 09° 47' W	126.78 m.
10-11	N 25° 15' W	30.94 m.
11-12	N 62° 25' W	79.48 m.
12-13	N 83° 27' W	104.00 m.
13-14	N 09° 47' E	82.12 m.
14-15	N 45° 16' W	29.42 m.
15-1	N 03° 44' E	250.76 m.
TIE LINE: N 16° 59' E, 52,796.13 m.; From CAD-800-D, BLLM 1 to Corner Marked "1":		

B 1 LOT DESCRIPTION

SCALE :NTS

GRID COORDINATES WGS 84 DATUM

NO.	NORTHING	EASTING	NO.	NORTHING	EASTING
1	1127690.285	707585.549	9	1127388.867	707787.959
2	1127685.878	707611.173	10	1127263.708	707767.77
3	1127688.546	707705.56	11	1127291.548	707754.275
4	1127688.658	707725.579	12	1127327.596	707683.442
5	1127668.672	707724.876	13	1127338.34	707580
6	1127663.675	707724.7	14	1127419.413	707593.078
7	1127663.558	707704.677	15	1127439.894	707571.955
8	1127401.98	707695.44			

C 1 LOCATION MAP

SCALE NTS

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

GEODETIC ENGINEER:	REG. NO.	PROJECT TITLE / LOCATION:	OWNER:	SHEET CONTENTS:	DRAWN / PLOTTED BY:	SHEET NO.
LUCY JANET R. PASION	DATE	FOUR POINTS BY SHERATON PALAWAN	[redacted]	SITE DEVELOPMENT PLAN PROJECT DESCRIPTION LOCATION MAP	CHECKED BY:	SDP 1 | 9
	PTR NO.	SITIO SABANG, BARANGAY CABAYUGAN, PUERTO PRINCESA CITY			DATE:	
	DATE ISSUED				REVISED BY:	
	PLACE ISSUED				DATE:	

3.0 PROJECT COMPONENTS

The following are the present existing facilities subject to renovations and expansions:

FACILITIES	AREA (Square meters)
1. Building A (2 storeys)	3,116
2. Building B (2 storeys)	3,116
3. Building C (3 storeys)	4,674
4. Grand lobby	420
5. Convention Center	1380
6. Gazebo	339
7. Business Center	189.
8. Service/BOH Building	250
9. Dormitory	639
10. Restaurant	521
11. SPA	426
12. Swimming Pool	1367
13. Access Road	1485

The following are the proposed additional new facilities and the expanded existing facilities:

FACILITIES	AREA (Square meters)
14. Building D (3 storeys)	4,674
15. Spa / Gym / Kid's Club	644
16. Dormitory 1 (2- storeys)	2016
17. Dormitory 2 (3- storeys)	4,299 construction is pending
18. Warehouse	330
19. Powerhouse, MEP, STP	286
20. STP	72
21. Water Refilling Station	46
22. Carpentry Workshop	80
23. Restaurant (All Day Dining/ Kitchen	1,115

24. P Club	711
25. BOH Kitchen	347
26. BOH Office & Service Building	240
27. Laundry Area and Substation	566
28. New Guardhouse and Shade	100

The table below shows the details of the existing facilities and those for renovation and expansion as well as the new building facilities which are the subject of application for amendments in its Environmental Compliance Certificate.

Facilities (please enumerate; use separate sheet, if necessary)	**No. of Units**	**Area (sq. m.) / Capacity**	**Specification/ Description / Remarks**	**No. of Units**	**Area (sq. m) Capacity**	**Specification/ Description / Remarks**
	Existing			**Expansion**		
1. Main Components:						
Building A	1	3,116			3,116	Renovation
Building B	1	3,116			3,116	Renovation
Building C	1	4,674.			4,674	Renovation
Gazebo	1	339			338	Renovation

Grand Lobby	1	420			501	Renovation
Swimming Pool	1	1,367			1,367	Rectification /Renovation
Access Road	1	1,485	As-is			Rehabilitation/Landscaping of road and sidewalk
Convention Center	1	1,380		1	1380	Renovation
Business Center	1					Change to P Club
BOH Office & Admin Area	1	240		1	250	Renovation
Laundry Area	1	359		1	359	Renovation and Expansion
Dormitory 1	1	639		1	2016	Renovation and Expansion
Restaurant (All Day Dining/Kitchen)	1	521		1	1,115	Renovation and Expansion
BOH Kitchen				1	353	New Construction
Building D				1	4,674	New 3-Storey Building
Spa/Gym/Kid's Club Indoor Outdoor				1 1	546 98	New Building
Water Refilling Station				1	46.	New Building
Dormitory 2				1	4,299	Construction is Pending
Warehouse				1	330 .	New Building
Power House and MEP				1	286	New Building
STP				1	72	New Building
Carpentry/Workshop				1	80	Inside the new warehouse bldg

P Club : Indoor Outdoor				1 1	350 361	Renovation and Expansion

2.Storage Facilities:						
Raw Material	N/A					
Product	N/A					
Fuel	N/A					
Wastes	N/A					
Water	N/A					
3.Pollution Control / Waste Management Facilities:						
Air				1	286 sq.m.	Power house
Wastewater				1	72 sq.m.	STP
Solid Waste (MRF)	1	15 sq.m.	MRF and Local Junk Shop	1	85 sq.m.	
Hazardous Wastes	1	8.sq.m.	Hazardous Waste Storage Area	1	10 sq.m.	
4.Support Facilities						
Power Generation/Supply		250 KwH/day	In-House and Sabang Renewable Energy Corp.	350 KwH/day	In-House and Sabang Renewable Energy Corp	Solar Energy Supply
Power Generation/Supply	5	188 kW, 150kW, 240 kW, 280kW, 280kW	Diesel Generator Sets	4	New : 625 KVA Existing: 2x350 KW, 1x438 KVA	Diesel Generator Sets (old and existing will be replaced) All Gensets are on stand-by basis
Water Supply	1	90 m^3/day	Deepwell and Water District	1	160 m3/day	Deepwell and Water District
Admin Building		244 sq.m.		1	244 sq.m.	Renovation

Motor Pool Facility						
Others Specify:						
5.Drainage System	1		Existing Drainage	1		For Renovation and Expansion
6.Others, specify:						

3.1 UTILITIES / REQUIREMENTS (Operational Phase):

Power/Energy, water and other resource requirements

Utilities	Estimated Demand/ Consumption (Total)	Source Breakdown	Projected breakdown from Source specified	
			Existing	**Modified**
Power/Electricity	Existing: 7,500 kwh Expansion/Modification: 10,500 kwh	Grid (Solar)	150 kwh	
		Generator Set	100 kwh	0 KWh
		Others, please specify: Solar Power		350 KWh
Water	Existing: 2,700 m3 Proposed: Expansion/Modification: 4,800 m^3	Local Water Utility Provider	30 m^3/day	50 m^3/day
		Well in: (specify location):	60 m3/day	110 m^3/day
		Spring in: (specify location):		m^3/day
		River, Lake or other surface water : (specify name & location)		m^3/day
		Others, please specify:		m^3/day
Raw Material 1 (please Specify)	Existing: w/ the proposed Expansion/Modification:	Source 1 (please Specify)	N/A	N/A
		Source 2 (please Specify)	N/A	N/A
Raw Material 2 (please Specify)	Existing: w/ the proposed Expansion/Modification:	Source 1 (please Specify)	N/A	N/A
		Source 2 (please Specify)	N/A	N/A

Conservation Measures

Utilities	Proposed Efficiency/Conservation Measures (describe measures)		Estimated Savings for	Estimated Total Savings
Power/ Electricity	Existing	Generator sets	100 KWh	150 KWh (In-House)
		Solar	150 KWh	
	Modification	Solar	350 KWh	150 KWh (In-House and the company is continuing to gradually increase their in-house power source)
Water	Existing	Rainwater collection system with total capacity of 162 m3	m^3/day	m^3/day (This depends on the frequency of Raining)
		Others, please specify:	m^3/day	
	Modification	Rainwater collection system with total capacity of 216 m3	1m^3/day	m^3/day (This depends on the frequency of Raining)
		Others, please specify:	m^3/day	

3.2 DETAILS OF BUILDINGS AND NEW FACILITIES AT FOUR POINTS PALAWAN PROJECT

HOTEL A		
Level	**Description**	**FA (sq.m.)**
GF	Suite Rooms, PWD Rooms, DD Room ,King Room Rooms , House Keeping Rooms , EE Room, SS Bar, FF&E	1558
2F	Hotel Rooms , House Keeping Rooms , EE Room , IDF Room, Solar Room	1558
GROUND FLOOR LEVEL		
No. of Rooms	**Room Names**	**FA (sq.m.)**
2	Suite Room	50
1	PWD Room	31
10	King Room	31
11	DD Room	31
1	EE Room	12
1	SS Bar, F & E	12
2	Housekeeping Room	12
SECOND FLOOR LEVEL		
No. of Rooms	**Room Names**	**FA (sq.m.)**
2	Suite Room	50
11	King Room	31
11	DD Room	31
1	EE Room/Solar	12
2	Housekeeping Room	12
1	IDF Room	12

HOTEL B		
Level	**Description**	**FA (sq.m.)**
GF	Suite Rooms, PWD Rooms, DD Room ,King Room Rooms , House Keeping Rooms , EE Room, SS Bar, FF&E	1558
2F	Hotel Rooms , House Keeping Rooms , EE Room , IDF Room, Solar Room	1558
GROUND FLOOR LEVEL		
No. of Rooms	**Room Names**	**FA (sq.m.)**
2	Suite Room	50
1	PWD Room	31
11	King Room	31
10	DD Room	31
1	EE Room	12
3	Housekeeping Room	12
SECOND FLOOR LEVEL		
No. of Rooms	**Room Names**	**FA (sq.m.)**
2	Suite Room	50
10	King Room	31
12	DD Room	31
1	EE Room/Solar	12
2	Housekeeping Room	12
1	IDF Room	12

N.B.: All balcony areas of all guest rooms of Building A, B, C, and D are excluded which has an area of 8 sq.m. per balcony.

HOTEL C		
Level	**Description**	**FA (sq.m.)**
GF	Suite Rooms, PWD Rooms, DD Room ,King Room Rooms , House Keeping Rooms , EE Room	1558
2F	Suite Rooms, PWD Rooms, DD Room ,King Room Rooms , IDF Room , Housekeeping Room	1558
3F	Suite Rooms, PWD Rooms, DD Room ,King Room Rooms , Solar Room , Housekeeping Room	1558
GROUND FLOOR LEVEL		
No. of Rooms	**Room Names**	**FA (sq.m.)**
4	Suite Room	50
2	PWD Room	31
10	King Room	31
8	DD Room	31
1	Housekeeping Room	12
1	EE Room	12
SECOND FLOOR LEVEL		
No. of Rooms	**Room Names**	**FA (sq.m.)**
4	Suite Room	50
12	King Room	31
8	DD Room	31
1	IDF Room	12
1	Housekeeping Room	12
THIRD FLOOR LEVEL		
No. of Rooms	**Room Names**	**FA (sq.m.)**
4	Suite Room	50
11	King Room	31
9	DD Room	31
1	Housekeeping Room	12
1	Solar Room	12

HOTEL D		
Level	**Description**	**FA (sq.m.)**
GF	Family Rooms, PWD Rooms, DD Rooms ,King Room Rooms , Housekeeping Rooms , EE Room	1558
2F	Family Rooms, PWD Rooms, DD Rooms ,King Room Rooms , Housekeeping Room , IDF Room	1558
3F	Family Rooms, PWD Rooms, DD Rooms ,King Room Rooms , Housekeeping Room , Solar Room	1558
GROUND FLOOR LEVEL		
No. of Rooms	**Room Names**	**FA (sq.m.)**
4	Family Room	48

10	King Room	32
10	DD Room	32
1	Housekeeping Room	12
1	EE Room	12
SECOND FLOOR LEVEL		
No. of Rooms	**Room Names**	**FA (sq.m.)**
4	Family Room	48
10	King Room	32
10	DD Room	32
1	IDF Room	12
1	Housekeeping Room	12
THIRD FLOOR LEVEL		
No. of Rooms	**Room Names**	**FA (sq.m.)**
4	Family Room	48
10	King Room	32
10	DD Room	32
1	Housekeeping Room	12
1	Solar Room	12

DOMITORY 1		
Level	**Description**	**GFA (sq.m.)**
GF	Cafeteria , Lounge , Offices , Laundry Area , EE Room , Staff Bedrooms , Male and Female Comfort Room , Kitchen and Reception area, Quite Room and Storage Room	1008
2F	Staff Bedrooms , Gym , Gym Office, Unisex Locker Room , Media Room, Recreation Room, Storage Room , Library Rooms ,Male and Female Comfort Room.	1008
GROUND FLOOR LEVEL		
No. of Rooms /Areas	**Room/Area Names**	**GFA (sq.m.)**
1 Area	Cafeteria	144
1 Area	Lounge	22.43
1 Room	Offices	26.1
1 Room	Laundry	29
19 Rooms	Staff Bedrooms	22.5
1 Room	Kitchen	51
1 Room	Electrical Room 1	11.75
1 Room	Electrical Room 2	3.0
1 Room	Male Comfort Room	11
1 Room	Female Comfort Room	11
1 Area	Reception Area	27.77
1 Room	Quite Room	26.6
1 Room	Storage Room	10

SECOND FLOOR LEVEL		
No. of Rooms /Areas	**Room/Area Names**	**FA (sq.m.)**
25	Staff Bedrooms	22.5
1	Gym	55.56
1	Recreation Room	63.53
1	Media Room	31.71
1	Unisex Locker Room	14
1	Gym Office	13
1	Library Room	22.35
1	Male Comfort Room	10.9
1	Female Comfort Room	10.9
1	Storage Room	11

WAREHOUSE		
Level	**Description**	**GFA (sq.m.)**
GF	Carpentry Shop, Electrical Storage Room , Tool Storage, Paint Shop, Warehouse Controller Room , Workshop Lounge, Accouns File Room , Mechanical/ Electrical Workshop Room	330
GROUND FLOOR LEVEL		
No. of Rooms	**Room/Area Names**	**GFA (sq.m.)**
1	Carpentry Shop	22
1	Electrical Storage Room	14
1	Tool Storage	9.0
1	Paint Shop	20
1	Warehouse Controller Room	12
1	Accounts File Room	43.5
1	Workshop Lounge / Drawing Files	12
1	Mechanical/ Electrical Workshop Room	22

POWER HOUSE		
Level	**Description**	**GFA (sq.m.)**
GF	Solar Battery Room, Genset Rooms , Extended Room, Synchronized Panel and Inverter Room.	240
2F	Meeting Room, BMS Control Room, Locked Storage , Electronics Repair Room, Chief Engineer Room, Open Work Station & Plan File Storage.	89

GROUND FLOOR LEVEL		
No. of Rooms	**Room /Area Names**	**GFA (sq.m.)**
1	Solar Battery Room	30
1	Genset Room	80
1	Extended Room	45
1	Synchronized Panel and Inverter Room.	74
SECOND FLOOR LEVEL		
No. of Rooms	**Room Names**	**FA (sq.m.)**
1	Meeting Room	13.3
1	BMS Control Room	8.0
1	Locked Storage Room	11
1	Electronics Repair Room	8.0
1	Chief Engineer Room	4.0
1	Open Work Station Office	13
1	Reception Area	13
1	Plan / File Storage Room	8.0

SPA		
LEVEL	**Description**	**GFA (sq.m.)**
GF	Treatment Rooms , Relaxation Lounge, Couples Treatment Room, PWD C.R. , Linen Storage , Steam Room, Sauna Room , IDF Room, Reception, Theraphist Waiting Area , Manager's Room, Powder Room , Male and Female Changing Room.	342
GROUND FLOOR LEVEL		
No. of Rooms	**Room/Area Names**	**GFA (sq.m.)**
5	Treatment Rooms	11
1	Relaxation Lounge	31
1	Couples Treatment Room	23
1	PWD C.R.	8.0
1	Linen Storage	5.8
2	Steam Room	5.7
1	Sauna Room	4.4
1	IDF Room	5.0
1	Reception Area	20
1	Theraphist Waiting Area	24.9
1	Manager's Room	7.0
1	Powder Room	3.9
4	Shower Room	2.3
1	Male Changing Room	35
1	Femael Changing Room	35

GYM		
Level	**Description**	**GFA (sq.m.)**
GF	Fitness Gym	90
GROUND FLOOR LEVEL		
No. of Rooms	**Room Names**	**GFA (sq.m.)**
1	Fitness Gym	90

KID'S CLUB		
Level	**Description**	**GFA (sq.m.)**
GF	Pantry, Breastfeeding , Reception , Comfort Room,Sleeping Area, Story Nest Area/ Construction Zone Area, Chill Zone Area ,Imagination Zone Area,Nature Arts & Crafts Area and Outdoor Kid's Club	114
GROUND FLOOR LEVEL		
No. of Rooms	**Room/Area Names**	**GFA (sq.m.)**
1	Pantry	6.0
1	Breastfeeding	4.6
1	Reception	41
1		9.0
1	Sleeping Area	8.2
1	Story Nest Area / Construction Zone Area	17.8
1	Chill Zone Area	6.5
1	Imagination Zone Area	11.4
1	Nature Arts & Crafts Area	5.2
1	Outdoor Play Area	10.3

GRAND LOBBY		
LEVEL	**Description**	**GFA (sq.m.)**
GF	Reception, FOH Open Office, FOM Room, Staff C.R., Pantry Area AYS Agent Room, Grab and Go Area, Guest Dep't Room, Pantry Area, HK/Storage Room,Safety Boxes Room, HK/s ,Luggage Storage, ATM Machine area, IT Room, Counting /Cashier Room	501
GROUND FLOOR LEVEL		
No. of Rooms /Areas	**Room /Area Names**	**GFA (sq.m.)**
1 area	Reception	139
1 area	FOH Open Office	14.3
1 room	FOM Room	8.8
1 room	Staff C.R.	3.0
1 area	Pantry Area	2.0
1 room	AYS Agent Room	7.5
1 area	Grab and Go Area	8.7
1 room	Guest Dep't Room	4.0
1 room	HK/Storage Room	2.9
1 room	Safety Boxes Room	3.9
1 room	Luggage Storage	7.8
1 area	ATM Machine area	9.0
1 room	IT Room	50
1 room	Counting /Cashier Room	11

ALL DAY DINING RESTAURANT		
LEVEL	**Description**	**GFA (sq.m.)**
GF	Toilet, Private Dining Room, Specialty Restaurant, Il Fiore , Alfresco, Evolution , Show Kitchen 1, Show Kitchen 2 , EE Room, Male and Female Staff CR	1,115
GROUND FLOOR LEVEL		
No. of Rooms /Areas	**Room /Area Names**	**GFA (sq.m.)**
1 area	BOH Kitchen	99
1 room	IDF Room	3.0
1 room	PWD Toilet	5.5
1 room	Male Public Toilet	14
1 room	Female Public Toilet	13.5
1 room	Private Dining Room	27
1 room	Specialty Restaurant	28
1 area	il Fiore	109
1 area	Alfresco	259
1 area	Evolution	270
1 area	Show Kitchen 1	45
1 area	Show Kitchen 2	62
1 area	EE Room,	6.1
1 room	Male Staff CR	3.5
1 room	Female Staff CR	3.5
2 rooms	Janitor Closet	3.0

P-CLUB		
LEVEL	**Description**	**GFA (sq.m.)**
GF	Indoor Beach Bar, Cabanas, Kitchen , IDF Room, Private Alfresco, Barbecue Fire Fit ,Outdoor Beach Bar, Storage Roo, Janitor Closet, IDF Room , EE Room , PWD Public Toilet , Male and Female Public Toilet.	711
GROUND FLOOR LEVEL		
No. of Rooms /Areas	**Room/Area Names**	**GFA (sq.m.)**
1 room	Indoor Beach Bar	75
1 area	Cabanas	255
1 room	Kitchen	48
1 room	IDF Room	4.3
1 area	Private Alfresco Area	29
1 area	Barbecue Fire Fit Area	50
1 area	Outdoor Beach Bar	182
1 room	Storage Room	2.6
1 room	Janitor Closet	1.8
1 room	EE Room	1.6
1 room	PWD Public Toilet	7.0
1 room	Male Public Toilet.	14.5
1 room	Female Public Toilet.	12.5

SWIMMING POOL		
LEVEL	**Description**	**GFA (sq.m.)**
GF	Pool Bar, Swimming Pool , Pool Bridge, Pool Deck Sides , Jacuzzi , Kid's Pool and Pump Rooms	1367
GROUND FLOOR LEVEL		
No. of Rooms /Areas	**Room/Area Names**	**GFA (sq.m.)**
1 area	Pool Bar	35
1 area	Swimming Pool	1360
2 areas	Pool Bridge	33
2 areas	Pool Deck Sides	125
1 area	Jacuzzi	27
1 areas	Kid's Pool	30
2 rooms	Pump Room	35

CONVENTION HALL		
LEVEL	**Description**	**GFA (sq.m.)**
GF	Ballroom Hall, Meeting Room 1, Meeting Room 2, Female Toilet , Male Toilet, PWD Toilet, FCC/EDC Room, Security Office, Holding Room ,Purchasing Office, BOH Kitchen, IDF Room, AV Room, Storage Room, HR Offices, Director HR, File Room, Interview Room, HR Training Room/Multimedia, Banquette Mngr/ Event Team, EE Room, Sound Lock Vestibule	1376
GROUND FLOOR LEVEL		
No. of Rooms	**Room/Area Names**	**FA (sq.m.)**
3 areas	Ballroom Hall	230
1 room	Meeting Room 1	35
1 room	Meeting Room 2	35
1 room	Female Toilet	18
1 room	Male Toilet	18
1 room	PWD Toilet	5.2
1 room	FCC/EDC Room	16.8
1 room	Security Office	10.7
1 room	Holding Room	4.4
1 room	Purchasing Office	14
1 area	BOH Kitchen	101
1 room	IDF Room	8.0
1 room	AV Room	8.0
1 room	Store Room	19
1 room	HR Offices	63
1 room	Director HR	9.0
1 room	File Room	4.0
1 room	Interview Room	8.0
1 room	HR Training Room/Multimedia	30
1 room	Banquette Mngr/Event Team	14.5

1 room	EE Room	2.7
4 rooms	Sound Lock Vestibule	2.7

BOH ADMIN OFFICE		
LEVEL	**Description**	**GFA (sq.m.)**
GF	Clinic,Nurse Office, Exec. Sec. Reception, Reserve Mngr/ F&B/ Finance/ S&M Desk, Finance Controller, Paymaster, Gen. Cashier, General Manager , Director of Sales Room,Storage/File Room, Male and Female Public Toilet,	250
GROUND FLOOR LEVEL		
No. of Rooms /Areas	**Room/Area Names**	**GFA (sq.m.)**
1 room	Clinic Room	11
1 room	Nurse Office	6.0
1 room	Exec. Sec. Reception	10
1 area	Reserve Mngr/ F&B/ Finance/ S&M Desk	31
1 room	Finance Controller	9.0
1 room	Paymaster, Gen. Cashier	8.0
1 room	General Manager	10
1 room	Director of Sales Room	10
1 room	Storage/File Room	8.0
1 room	Male Public Toilet	8.4
1 room	Female Public Toilet	12.5

BOH LAUNDRY		
LEVEL	**Description**	**GFA (sq.m.)**
GF	Laundry Mngr, IDF Room, Lost & Found, Storage Room, Equipment Room, Clean Linen Storage , EE Room and Laundry Equipments Area	359
GROUND FLOOR LEVEL		
No. of Rooms /Areas	**Room/Area Names**	**GFA (sq.m.)**
1 room	Laundry Mngr	73
1 room	IDF Room	3.7
1 room	Lost and Found Room	5.3
1 room	Storage Room	4.0
1 room	Equipment Room	6.5
1 room	Clean Linen Storage	20
1 room	EE Room	4.3
1 area	Laundry Equipments Area (washing,drying,iron folding)	88

BOH WATER TREATMENT FACILITY		
LEVEL	**Description**	**GFA (sq.m.)**
GF	Storage Room, Water Laboratory, Water Treatment Facility, EE Room	58
ROOF DECK	Water Tank	58
GROUND FLOOR LEVEL		
No. of Rooms	**Room/ Names**	**GFA (sq.m.)**
1 room	Storage Room	10
1 room	Water Laboratory	20
1 room	Water Treatment Facility	13
1 room	EE Room	9.6

ROOF DECK LEVEL		
No. of Area	**Room/ Names**	**FA (sq.m.)**
1 area	Water Tank	16

SUBSTATION 2		
LEVEL	**Description**	**GFA (sq.m.)**
GF	Genset Room, Switchgear /Synchronizing Panel,	94
ROOF DECK	Transformers	16
GROUND FLOOR LEVEL		
No. of Rooms	**Room/ Names**	**GFA (sq.m.)**
1 room	Genset Room	65
1 room	Switchgear /Synchronizing Panel	29
ROOF DECK LEVEL		
No. of Area	**Area Names**	**FA (sq.m.)**
1 area	Transformers	65

SUBSTATION 3		
LEVEL	**Description**	**GFA (sq.m.)**
LOWER GF	Fire Tank 3 , Fire Pump Equipment Room	37
UPPER GF	Genset Room / Transformer	
LOWER GROUND FLOOR LEVEL		
Area Names	**Area Names**	**GFA (sq.m.)**
1 area	Fire Tank 3	17
1 area	Fire Pump Room Equipment	20
UPPER GROUND FLOOR LEVEL		
No. of Area	**Area Names**	**GFA (sq.m.)**
1 area	Genset Area	30
1 area	Transformer	13

4.0 PROOF OF OWNERSHIP OF THE PROJECT SITE BASED ON DOCUMENTS

Method of Ownership	Owner / Vendor	Project Site Owner	Area (sq. meters)
TCT No. 168988	JECO Dev. Corp.	Jeco Dev.Corp	26,948
TCT No. 074-2019002329	JECO Dev. Corp.	Jeco Dev. Corp.	500
Deed of Sale- Portion of Lot-20632	Rufino Tabinga Sr.	Jeco Dev. Corp	6,740
Deed of Sale Portion of Lot-20790 (portion)	Marilyn Dadores	Jeco Dev. Corp	5030
Deed of Sale Portion of Lot-20790 (portion)	Marilyn Dadores	Jeco Dev. Corp	2594
Deed of Sale Portion of Lot-20790 (portion)	Marilyn Dadores	Jeco Dev. Corp	406
Deed of Sale Portion of Lot-20789 (portion)	Primo Avellano	Jeco Dev. Corp	1485
Deed of Sale Portion of Lot-20789 (portion)	Primo Avellano	Jeco Dev. Corp	7214
Total Area			**50,917**

TABINGA - 6740 SQM

W/ ATTACHED MOTHER TCT 6740M²

DEED OF ABSOLUTE SALE

KNOW ALL MEN BY THESE PRESENTS:

This Deed of Absolute Sale, executed by and between:

RUFO TABINGA, Jr., of legal age, Filipino, and a resident of Barangay Cabayugan, Puerto Princesa City, Palawan, Philippines, hereinafter referred to as the **VENDOR**,

- and -

JECO DEVELOPMENT CORPORATION, a domestic corporation duly organized and existing under Philippine laws, with main business address at Iloilo City, Philippines, herein represented by its President **Mr. JOSEPH TAN**, of legal age, Filipino, and a resident of Bacolod City, Philippines, hereinafter referred to as the **VENDEE**,

WITNESSETH:

WHEREAS, The VENDOR is the absolute owner in fee simple of a subdivision lot, Lot 20632-G, Psd-04- (which is a portion of a parcel of land situated in Sitio Sabang, Barangay Cabayugan, Puerto Princesa City, Palawan, Philippines, identified as Lot 20632, Cad-800-D, registered in the name of the late Rufo Tabinga Sr. under Original Certificate of Title (OCT) No. 3127 of the Register of Deeds for Puerto Princesa City), consisting of Six Thousand Seven Hundred Forty (6,740) square meters, and more particularly described, based on the advance technical description:

Lot 20632-G, Psd-04-

A parcel of land (Lot 20632-G, of the subdivision plan, Psd-04-, being a portion of Lot 20632, CAD 800-D, L.R.C Record No.), situated in the Sitio Sabang, Barangay of Cabayugan, Puerto Princesa City, Province of Palawan. Bounded on the S., along line 1-2 by Lot 20790; on the W., along line 2-3 by Lot 20632-F; on the N., along line 3-4 by South China Sea; on the E., along line 4-1 by Lot 20779.

Beginning at a point marked "1" on plan being N. 17 deg. 05'E., 52536.13 m. from BLLM No. 1, Cad-800-D.

thence N., 45 deg. 16'W., 34.36 m. to point 2;
thence N., 03 deg. 43'E., 250.74 m. to point 3;

thence S., 79 deg. 37'E., 26.00 m. to point 4;
thence S., 03 deg. 42'W., 270.29 m. to point of;

Beginning, containing an area of SIX THOUSAND SEVEN HUNDRED FORTY (6,740) SQUARE METERS;

WHEREAS, The VENDEE desires to purchase the above-described lot and all the improvements found thereon from the VENDOR who is willing and able to sell the same to the former;

NOW, WHEREFORE, For and in consideration of the amount of ONE MILLION FIFTY THOUSAND PESOS (PhP1,050,000.00), Philippine currency, in hand to the VENDOR paid by the VENDEE, to the former's complete satisfaction, the VENDOR hereby SELLS, TRANSFERS AND CONVEYS, absolutely and forever, all his title, rights and interests over the aforementioned property subject hereof and all the improvements that may be found thereon unto said VENDEE, its assigns and successors-in-interest.

The VENDOR hereby warrants that he has absolute title over the lot and improvements he had herein sold, transferred and conveyed unto the VENDEE, its assigns and successors-in-interest, and that he holds the same free from any lien, encumbrance, claim or obligation of whatever nature and purpose. In case there be eventually discovered any such lien, encumbrance, claim or obligation involving the properties herein sold, the VENDOR hereby further obligates himself to undertake all necessary legal actions, including court action, to free the same therefrom, at his sole expense.

The VENDOR further warrants that he did not enter this sale to escape or evade any loan or pecuniary obligation in favor of any third person.

The VENDOR shall assume all the expenses, taxes, fees and other similar obligations for the proper registration of this Deed and the issuance of a transfer certificate of title in VENDEE's name.

IN WITNESS WHEREOF, The Parties hereto have hereunto set their hand this _____, at Puerto Princesa City, Palawan, Philippines.

JECO DEVELOPMENT CORPORATION
Vendee

By:

RUFO TABINGA, Jr.
Vendor

JOSEPH TAN
President

With my marital consent:

EVELYN P. TABINGA
Vendor's spouse

Witnessed by:

ACKNOWLEDGMENT

Republic of the Philippines)
Province of Palawan) Sc.
Puerto Princesa City)
x----------x

BEFORE ME, this _____, at the place cited, appeared:

Rufo Tabinga Jr. - CTC No. 06644784 / 9-16-2003 / PPC
Joseph Tan - CTC No. 06341660 / 1-14-2003 / Bacolod City

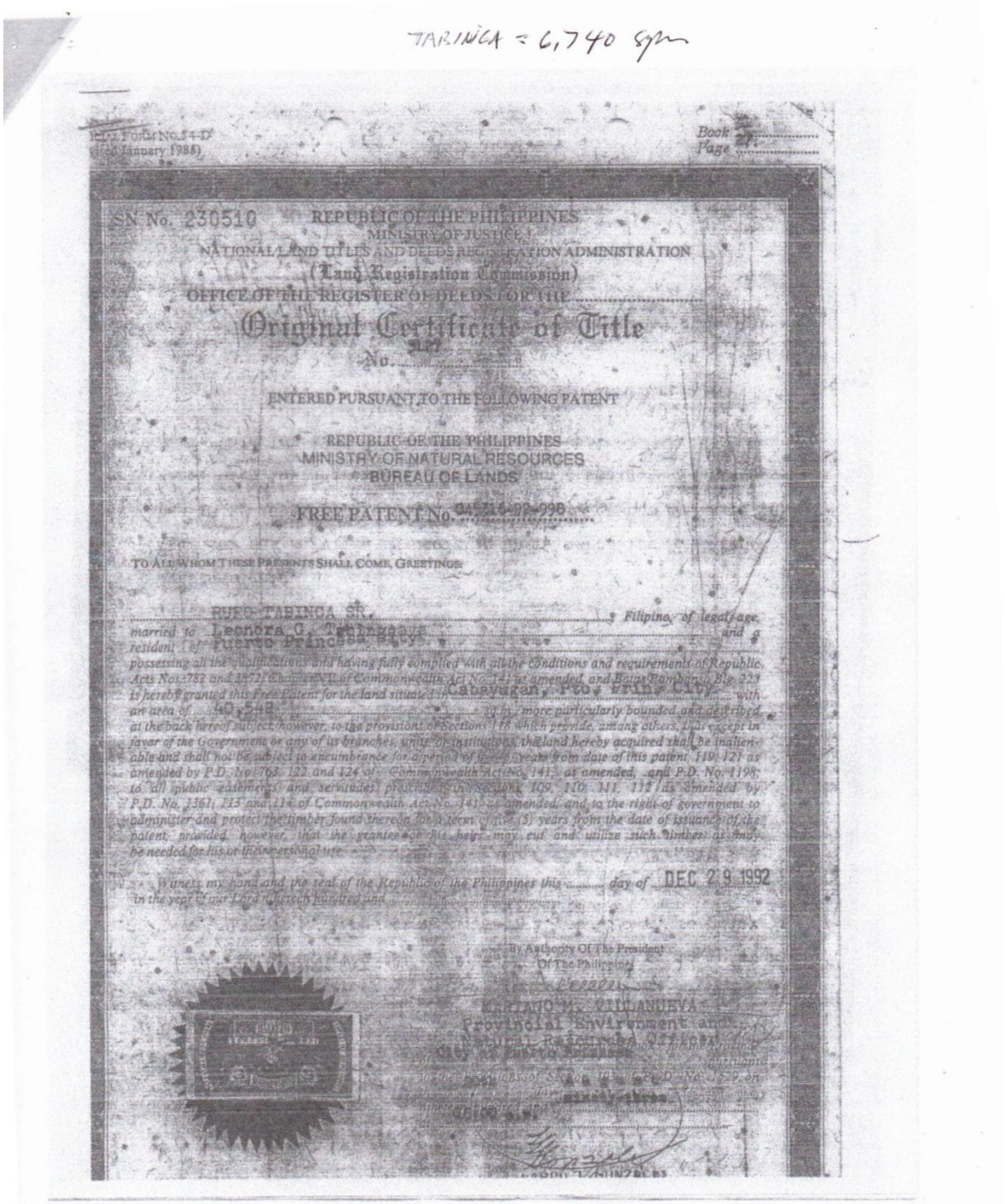
who executed the foregoing Deed of Absolute Sale, consisting of three (3) pages including the page on which this acknowledgment is written, and acknowledged to me that said Deed, which refers to the absolute sale of 6,740 square-meters lot mentioned therein, situated in Sitio Sabang, Barangay Cabayugan, Puerto Princesa City, Palawan, Philippines, which is a portion of Lot 20632, CAD 800-D and covered by OCT No. 3127 of the Register of Deeds for Puerto Princesa City, is of their own free and voluntary act and deed.

WITNESS MY HAND AND SEAL on the date and at the place first above stated.

LEOPOLDO MARIO P. LEGAZPI
Notary Public
Until 31 December 2003
PTR No. 2545352 / 1-2-2003 / PPC

Doc. No. 129
Page No. 27
Book No. XVIII
Series of 2003

TABINCA = 6,740 sqm



LRC Form No.54-D
(Red January 1985)

Book
Page

SN No. 230510

REPUBLIC OF THE PHILIPPINES
MINISTRY OF JUSTICE
NATIONAL LAND TITLES AND DEEDS REGISTRATION ADMINISTRATION
(Land Registration Commission)
OFFICE OF THE REGISTER OF DEEDS FOR THE

Original Certificate of Title

No. 3127

ENTERED PURSUANT TO THE FOLLOWING PATENT

REPUBLIC OF THE PHILIPPINES
MINISTRY OF NATURAL RESOURCES
BUREAU OF LANDS

FREE PATENT No. 045716-92-998

TO ALL WHOM THESE PRESENTS SHALL COME, GREETINGS:

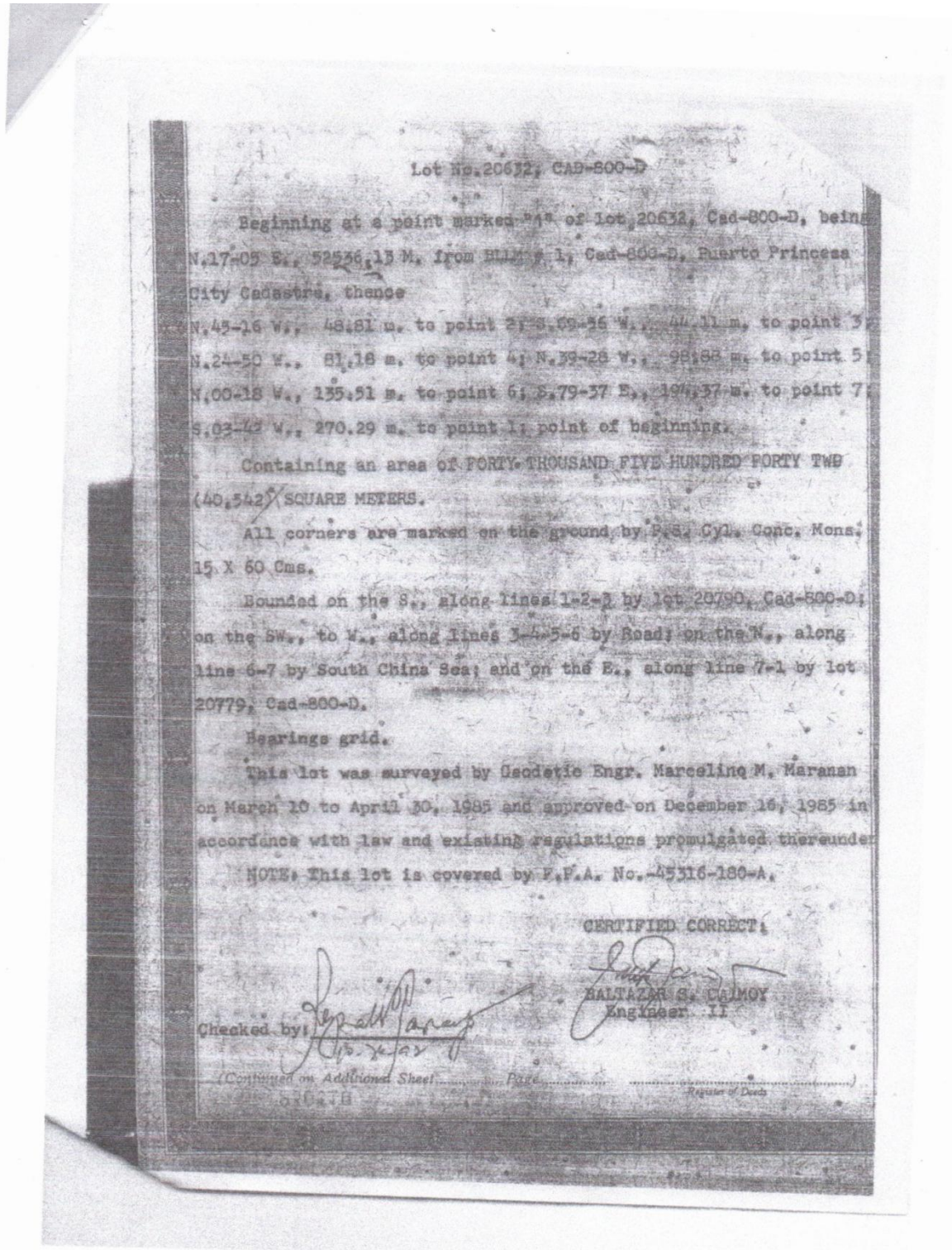
RUFO TABINCA SR., Filipino, of legal age, married to Leonora G. Tabinguave and a resident of Puerto Princesa City, possessing all the qualifications and having fully complied with all the conditions and requirements of Republic Acts Nos. 782 and 3872 (Chapter VII of Commonwealth Act No. 141, as amended, and Batas Pambansa Blg. 229) is hereby granted this Free Patent for the land situated in Cabayugan, Pto. Prin. City with an area of 40,548 sq.m., more particularly bounded and described at the back hereof; subject, however, to the provisions of Section 118 which provide, among others, that except in favor of the Government or any of its branches, units or institutions, the land hereby acquired shall be inalienable and shall not be subject to encumbrance for a period of five (5) years from date of this patent; 119, 121 as amended by P.D. Nos. 763, 122 and 124 of Commonwealth Act No. 141, as amended, and P.D. No. 1198; to all public easements and servitudes prescribed in Sections 109, 110, 111, 112 as amended by P.D. No. 1361; 113 and 114 of Commonwealth Act No. 141, as amended, and to the right of government to administer and protect the timber found thereon for a term of five (5) years from the date of issuance of the patent; provided, however, that the grantee or his heirs may cut and utilize such timber as may be needed for his or their personal use.

Witness my hand and the seal of the Republic of the Philippines this ..... day of DEC 29 1992 in the year of our Lord nineteen hundred and .....

By Authority Of The President
Of The Philippines

MARIANO M. VILLANUEVA
Provincial Environment and
Natural Resources Officer
City of Puerto Princesa

pursuant to the provisions of Section 103 of P.D. No. 1529 on
ninety-three
Time: 8:51



Lot No.20632, CAD-800-D

Beginning at a point marked "1" of lot 20632, Cad-800-D, being N.17-05 E., 52536.13 M. from BLLM # 1, Cad-800-D, Puerto Princesa City Cadastre, thence

N.43-16 W., 48.81 m. to point 2; S.09-36 W., 44.11 m. to point 3; N.24-50 W., 81.18 m. to point 4; N.39-28 W., 98.88 m. to point 5; N.00-18 W., 135.51 m. to point 6; S.79-37 E., 194.37 m. to point 7; S.03-42 W., 270.29 m. to point 1; point of beginning.

Containing an area of FORTY THOUSAND FIVE HUNDRED FORTY TWO (40,542) SQUARE METERS.

All corners are marked on the ground by P.S. Cyl. Conc. Mons. 15 X 60 Cms.

Bounded on the S., along lines 1-2-3 by lot 20790, Cad-800-D; on the SW., to W., along lines 3-4-5-6 by Road; on the N., along line 6-7 by South China Sea; and on the E., along line 7-1 by lot 20779, Cad-800-D.

Bearings grid.

This lot was surveyed by Geodetic Engr. Marcelino M. Maranan on March 10 to April 30, 1985 and approved on December 16, 1985 in accordance with law and existing regulations promulgated thereunder.

NOTE: This lot is covered by F.P.A. No.-45316-180-A.

CERTIFIED CORRECT:

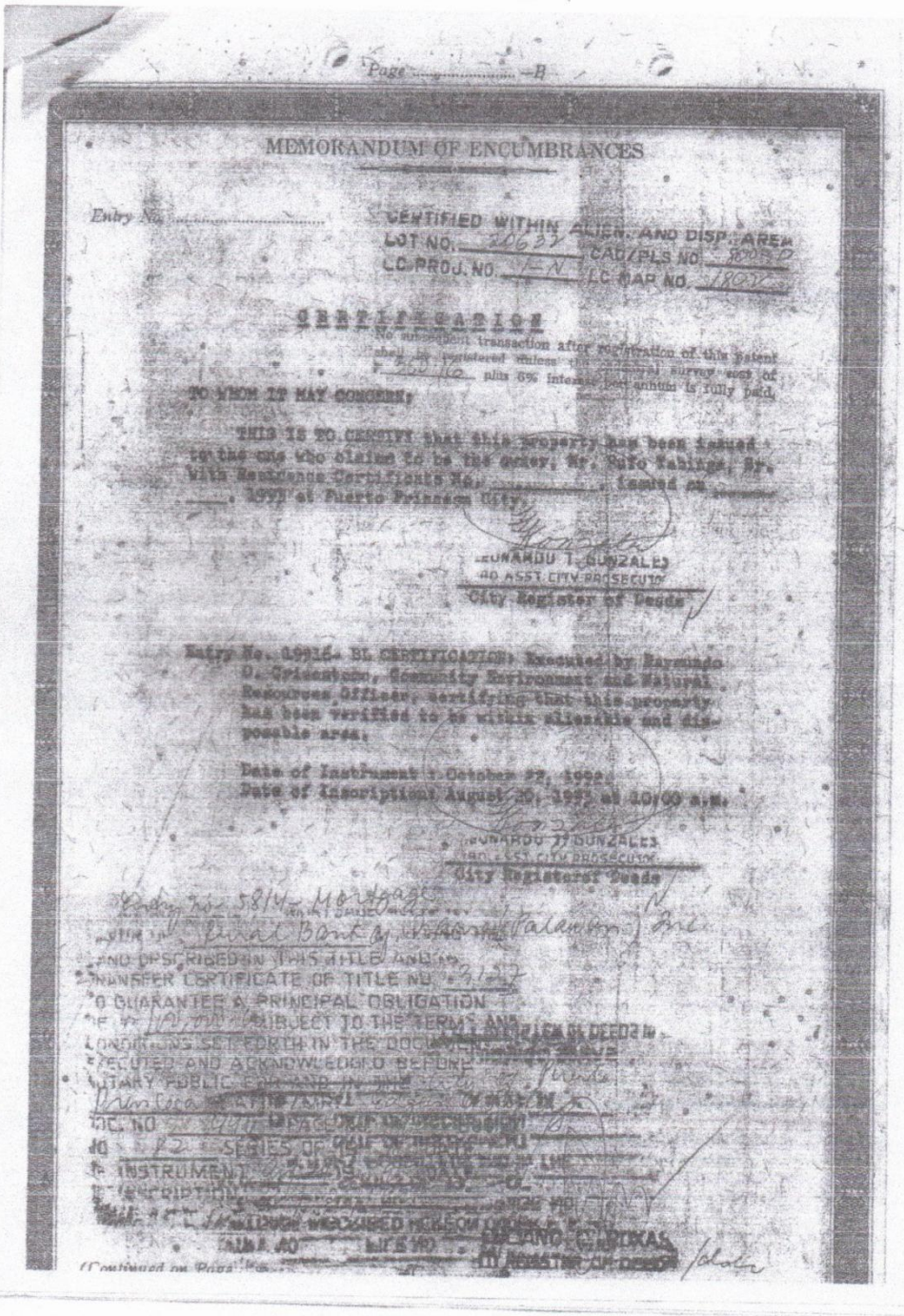
BALTAZAR S. CALMOY
Engineer II

Checked by:

(Continued on Additional Sheet..... Page..... .....)

Register of Deeds

TABUNGA - 6,740 sqm.



Page ..... -B

MEMORANDUM OF ENCUMBRANCES

Entry No. .....

CERTIFIED WITHIN ALIEN. AND DISP. AREA
LOT NO. 20637 CAD/PLS NO. 808-D
LC PROJ. NO. I-N LC MAP NO. 1807

CERTIFICATION

No subsequent transaction after registration of this patent shall be registered unless the ... survey cost of P 250.00 plus 6% interest per annum is fully paid.

TO WHOM IT MAY CONCERN:

THIS IS TO CERTIFY that this property has been issued to the one who claims to be the owner, Mr. Rufo Tabinga, Sr. with Residence Certificate No. ..... issued on ..... 1993 at Puerto Princesa City.

EUNARDO T. GUNZALES
AD ASST. CITY PROSECUTOR
City Register of Deeds

Entry No. 19916- EL CERTIFICATION: Executed by Raymundo O. Grijaldo, Community Environment and Natural Resources Officer, certifying that this property has been verified to be within alienable and disposable area.

Date of Instrument : October 22, 1993
Date of Inscription: August 20, 1993 at 10:00 a.m.

EUNARDO T. GUNZALES
AD ASST. CITY PROSECUTOR
City Registerar Deeds

Entry No. 5814 - Mortgage ...
... Rural Bank of ... (Palawan) Inc.
... AND DESCRIBED IN THIS TITLE AND ...
... OWNER'S CERTIFICATE OF TITLE NO. 3127
... TO GUARANTEE A PRINCIPAL OBLIGATION ...
... SUBJECT TO THE TERMS AND ... OF DEED ...
... CONDITIONS SET FORTH IN THE DOCUMENT ...
... EXECUTED AND ACKNOWLEDGED BEFORE ...
... NOTARY PUBLIC ...
... TIC. NO. ...
... NO. 42 SERIES OF ...
... INSTRUMENT ...
... DESCRIPTION ...
... ALIN. NO. ... LOT NO. ... AND CANCELLED ...

(Continued on Page ...)

JECO. 100 sqm.

Republic of the Philippines
CITY OF PUERTO PRINCESA
OFFICE OF THE CITY ASSESSOR

TAX DECLARATION OF REAL PROPERTY

TD No. : 008-2748 **Property Identification No. :** 134-06-008-01-053

Owner: JECO DEVELOPMENT CORPORATION TIN:

Address: DELGADO STREET, ILOILO CITY, PHILIPPINES Telephone No. :

Administrator/Beneficial User: TIN:

Address: Telephone No. :

Location of Property: (Number and Street) CABAYUGAN (Barangay/District) PUERTO PRINCESA CITY (Municipality & Province/City)

OCT/TCT/CLOA No. : TCT-074-2019002329 Survey No. : PSD-04-153698

CCT : Lot No. : 20778-A

Date : 2019-09-09 Blk. No.

Boundaries: North: WEST PHILIPPINE SEA
East: 061 (LOT 20778-I ROAD)
South: 054 (LOT 20778-B)
West: 003 (LOT 20779)

KIND OF PROPERTY ASSESSED :

[X] LAND [ ] MACHINERY Brief Description :

[ ] BUILDING No. of Storeys : [ ] OTHERS Brief Description :

Brief Description :

Classification	Sub-Class	Area	Area Type	Market Value	Actual Use	Assessment Level	Assessed Value
RESIDENTIAL	RB1	500.00	SQM	25,000.00	RESIDENTIAL	20%	5,000.00
	TOTAL:	500.00	SQM	25,000.00			5,000.00

Total Market Value : P 25,000.00 Total Assessed Value : P 5,000.00

Total Assessed Value FIVE THOUSAND AND 00/100

Taxable [X] Exempt [ ] Effectivity of Assessment : 2020

Appraised By:	Recommended By:	Approved By:	
ALFRED RYAN C. SABAS		ENGR. JOVEN C. V. BALUYUT	12/02/2019
LAOO II		CITY ASSESSOR	Date

This declaration cancels TD No. : 008-2046 Previous A.V. Php : 5,000.00

Previous Owner : TABINGA, ROLANDO

MEMORANDA: ASSESSED PER PHOTOCOPY OF TITLE PRESENTED ON FILE. 2019 TAXES PAID O.R. NO. 1316744 DATED 05/17/19 AMOUNT P148.11 (LAND). TRANSFER TAX PAID UNDER ORNO. 1316742 IN THE AMOUNT OF P24,200.00 DATED 5-17-2019. TRANSFER FEE PAID ORNO. 1368267 DATED 11-19-2019 AMOUNT P100.00. CAPITAL GAINS TAX & DOCUMENTARY STAMP TAX PAID BIR CAR NO. 201800011216 DATED 03-26-2019 AMOUNT P240,000.00 & P60,000.00.

Note: This declaration is for real property taxation purposes only and the valuation indicated herein are based on the schedule of unit market values prepared for the purpose and duly enacted into an ordinance by the Sangguniang Panlungsod under Ordinance No. 501 dated 2011-11-02. It does not and cannot by itself alone confer any ownership or legal title to the property.

GENERATED BY : ETRACS v2.5 PRINTED BY : MARICEL ADION MEDENILLA PRINT DATE : 2019-12-02 09:12:50 THIS DOCUMENT IS ELECTRONICALLY SIGNED

2019024268839

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF JUSTICE
Land Registration Authority
QUEZON CITY

Registry of Deeds for Puerto Princesa City

Transfer Certificate of Title

OWNER'S DUPLICATE · OWNER'S DUPLICATE · OWNER'S DUPLICATE · OWNER'S DUPLICATE · OWNER'S DUPLICATE

No. 074-2019002329

IT IS HEREBY CERTIFIED that certain land situated in BRGY. OF CABAYUGAN, MUN. OF PTO. PRINCESA, PROVINCE OF PALAWAN, more particularly bounded and described as follows:
LOT 20778-A, PSD-04-153698 A PARCEL OF LAND (LOT 20778-A OF THE SUBDIVISION PLAN PSD-04-153698, BEING A PORTION OF LOT 20778, CAD-800-D, PTO. PRINCESA CADASTRE, LRC REC. NO.), SITUATED IN THE BRGY. OF CABAYUGAN, MUN. OF PTO. PRINCESA, PROVINCE OF PALAWAN. BOUNDED ON THE NW. (continued on next page)

is registered in accordance with the provision of Section 103 of the Property Registration Decree in the name of

Owner: JECO DEVELOPMENT CORPORATION, A CORPORATION DULY ORGANIZED AND EXISTING UNDER AND BY VIRTUE OF THE LAWS
Address: DELGADO ST. ILOILO CITY ILOILO WESTERN VISAYAS
(continued on next page)

subject to the provisions of the said Property Registration Decree and the Public Land Act, as well as to those of the Mining Laws, if the land is mineral, and subject, further, to such conditions contained in the original title as may be subsisting.

IT IS FURTHER CERTIFIED that said land was originally registered as follows:

Patent Type: Free Patent
Patent Date: 12/29/1992
Under Act No.:
Volume No.: 30
Original Owner: ROLANDO TABINGA

Original RD: PUERTO PRINCESA CITY
OCT Date: 12/29/1992
OCT No.: OCT-3047
Page No.: 47

This certificate is a transfer from TRANSFER CERTIFICATE OF TITLE 169872 (TOTALLY CANCELLED) by virtue hereof in so far as the above-described land is concerned.

Entered at Puerto Princesa City, Philippines on the 9th day of SEPTEMBER 2019 at 10:50am.

Atty. Ma. Rachel Fe Fancos-Dilig
Register of Deeds III

TCT No.: 074-2019002329

Page No.: 2

OWNER INFORMATION *(Continued from page 1)*

Owner: OF THE PHILIPPINES

TECHNICAL DESCRIPTION *(Continued from page 1)*

., ALONG LINES 1-2-3 BY LOT 20779, CAD-000-D PTO. PRINCESA CADASTRE, ON THE NE., ALONG LINE 3-4 BY SOUTH CHINA SEA, ON THE SE., ALONG LINE 4-5-6 BY LOT 2077-I, ON THE SW., ALONG LINE 6-1 BY LOT 2077-B, BOTH OF THE SUBDIVISION PLAN. BEGINNING AT A POINT MARKED "1" ON PLAN BEING N., 17 DEG. 02'E., 52804.20 M. FROM BLLM NO. 1, CAD-000-D, PTO. PRINCESA CADASTRE. THENCE N., 02 DEG. 38'E., 5.00 M. TO POINT 2; THENCE N., 02 DEG. 38'E., 20.00 M. TO POINT 3; THENCE S., 89 DEG. 42'E., 20.02 M. TO POINT 4; THENCE S., 02 DEG. 38'W., 29.88 M. TO POINT 5; THENCE S., 02 DEG. 38'W., 5.00 M. TO POINT 6; THENCE W., 89 DEG. 43'W., 20.02 M. TO POINT OF BEGINNING CONTAINING AN AREA OF FIVE HUNDRED (500) SQUARE METERS. ALL POINTS REFERRED TO ARE INDICATED ON THE PLAN AND ARE MARKED ON THE GROUND BY PS CYL. CONC. MONS. 15 X 60 CM., BEARINGS TRUE, DATE OF ORIGINAL SURVEY, MARCH 30, 1985 AND THAT OF THE SUBD. SURVEY, FEBRUARY 6-7, 2003 AND WAS APPROVED ON MAY 6, 2003.

2019024268840

TCT No.: 074-2019002329

Page No.: 3

2019024268641

MEMORANDUM OF ENCUMBRANCES

CONSULTA RAISED BY REGISTRANT : MEMORANDUM
CONSULTA NUMBER:074-2015-000006
CONSULTA RAISED BY REGISTRANT: RE: NOTICE OF LIS PENDENS UNDER ENTRY NO. 2015000560 DATED MAR 13 2015 4:02PM , TO THE ADMINISTRATOR, LRA

(SGD.)ATTY. MA. RACHEL FE FABROS-DILIG
REGISTER OF DEEDS
DATE OF INSCRIPTION: JUL 13 2015 10:01AM

COPIED FROM TCT 169872

Atty. Ma. Rachel Fe Fabros-Dilig
Register of Deeds III

Jeco – 26,948

Republic of the Philippines
CITY OF PUERTO PRINCESA
OFFICE OF THE CITY ASSESSOR

TAX DECLARATION OF REAL PROPERTY

TD No. : 008-2767 Property Identification No. : 134-06-008-01-003

Owner: JECO DEVELOPMENT CORPORATION TIN:

Address: C/O PRESIDENT JOSEPH TAN, RIZAL AVENUE EXTENSION, DAGOMBOY VILLAGE Telephone No. :

Administrator/Beneficial User: TIN:

Address: Telephone No. :

Location of Property: (Number and Street) CABAYUGAN (Barangay/District) PUERTO PRINCESA CITY (Municipality & Province/City)

OCT/TCT/CLOA No. : TCT-168988 Survey No. : CAD-800-D

CCT : Lot No. : 20779

Date : 2003-01-16 Blk. No.

Boundaries: North: SOUTH CHINA SEA
East: 004 (LOT 20778)
South: 016 (LOT 20790)
West: 002 (LOT 20632)

KIND OF PROPERTY ASSESSED :

[X] LAND
[ ] BUILDING No. of Storeys : Brief Description :
[ ] MACHINERY Brief Description :
[ ] OTHERS Brief Description :

Classification	Sub-Class	Area	Area Type	Market Value	Actual Use	Assessment Level	Assessed Value
COMMERCIAL	RTR-1	26,948.00	SQM	67,370,000.00	COMMERCIAL	23%	15,495,100.00
	TOTAL:	26,948.00	SQM	67,370,000.00			15,495,100.00

Total Market Value : P 67,370,000.00 Total Assessed Value : P 15,495,100.00

Total Assessed Value FIFTEEN MILLION FOUR HUNDRED NINETY FIVE THOUSAND ONE HUNDRED AND 00/100

Taxable [X] Exempt [ ] Effectivity of Assessment : 2021

Appraised By:	Recommended By:	Approved By:	
(SGD.) DEEVID RYAN T. VILLAVERDE		(SGD.) ENGR. JOVEN C. V. BALUYUT	10/16/2020
LAOO I		CITY ASSESSOR	Date

This declaration cancels TD No. : 008-2002 Previous A.V. Php : 538,960.00

Previous Owner : JECO DEVELOPMENT CORPORATION

CERTIFIED TRUE AND CORRECT

ENGR. JOVEN C.V. BALUYUT
CITY ASSESSOR

Paid Under OR # : 1667208
Date Issued : March 23, 2022
Amount Paid : P 100.00

MEMORANDA: REVISED PURSUANT TO SECTION 219 OF R.A. 7160 AND CITY ORDINANCE NO. 1027.

CERTIFIED TRUE COPY

OFFICE OF THE CITY ASSESSOR
CITY OF PUERTO PRINCESA
March 23, 2022

Requested by: PINLAC, CRISTINE

Purpose : whatever legal purposes it may serve him/her

Note: This declaration is for real property taxation purposes only and the valuation indicated herein are based on the schedule of unit market values prepared for the purpose and duly enacted into an ordinance by the Sangguniang Panlungsod under Ordinance No. 1027 dated 2020-01-20. It does not and cannot by itself alone confer any ownership or legal title to the property.

GENERATED BY : ETRACS v2.5 PRINTED BY : MARIANIE FULGAR PRINT DATE : 2022-03-23 01:53:22

DEPARTMENT OF JUSTICE
Land Registration Authority
QUEZON CITY

REGISTRY OF DEEDS FOR THE PUERTO PRINCESA CITY

Transfer Certificate of Title

No. 168988

IT IS HEREBY CERTIFIED that certain land situated in the Bo. Cabayugan, Puerto Princesa City, more particularly bounded and described as follows:

LOT NO. 20779, CAD-800-D

Beginning at a point marked "1" of lot 20779, Cad-800-D, being N., 17-11'E., 52550.80 m. from BLLM # 1, Cad-800-D, Puerto Princesa City; thence;

N., 81-19'W., 99.80 m. to point 2; N., 03-42'E., 270.29 m. to point 3; N., 89-00'E., 94.42 m. to point 4; S., 02-3'W., 286.74 m. to point 1; point of beginning. Containing an area of THIRTY SIX THOUSAND NINE HUNDRED

is registered in accordance with the provisions of section 103 of the Property Registration Decree in the name of* JEGO DEVELOPMENT CORPORATION, a domestic corporation duly organized and existing under Philippine laws, with main business address at Iloilo City, Philippines, represented by its President

subject to the provisions of the said Property Registration Decree and the Public Land Act, as well as to those of the Mining Laws, if the land is mineral, and subject, further, to such conditions contained in the original title as may be subsisting and to

Mr. JOSEPH TAN

IT IS FURTHER CERTIFIED that said land was originally registered on the 27th day of May in the year nineteen hundred and ninety-three in Registration Book No. 31 page 21 of the Office of the Register of Deeds of Puerto Princesa City, as Original Certificate of Title No. 3121 pursuant to a Free patent, in the name of Rufo Tabinga Jr., granted by the President of the Philippines, on the 27th day of May, in the year nineteen hundred and ninety-three under Act No. 496

This certificate is a transfer from Original Certificate of Title No. 3121, which is cancelled by virtue hereof in so far as the above described land is concerned.

Entered at Puerto Princesa City Philippines, on the 16th day of January in the year two thousand and three at 04:20 a.m.

LUCIANO C. PINLAC
(Register of Deeds)

Iloilo City, Philippines
(Owner's Postal Address)

*State the civil status, name of spouse if married, age if a minor, citizenship and residence of the registered owner. If the owner is a married woman, state also the citizenship of her husband. If the land is registered in the name of the conjugal partnership, state the citizenship of both spouses.

THE LAND OWNER IS REMINDED TO UPGRADE THIS PAPER TITLE TO A COMPUTERIZED TITLE OR cTITLE (PREVIOUSLY CALLED eTITLE) TO ENABLE THE COMPUTERIZATION OF HIS/HER REGISTRY TRANSACTIONS.

THIS IS A CERTIFIED TRUE COPY OF THE GOVERNMENT COPY OF THIS TITLE.

This is a Certified True Copy of TCT **168988** on file at **Registry of Deeds of Puerto Princesa City**. This consists of **5** page(s) and does not require a manually affixed signature pursuant to R.A. No. 8792. Printed at **Registry of Deeds of Puerto Princesa City**. Requested By: **PINLAC, CRISTINE MARCH GALO**.

Ref. No. : 2021005261 OR No. : 1022893329
Date : 10/20/2021 OR Date : Oct 20 2021

This title is subject of an on-going transaction with Entry No. 2015000560

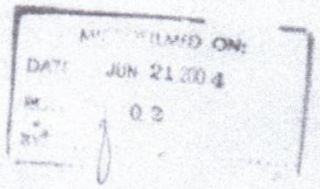
THE LAND OWNER IS REMINDED TO UPGRADE THIS PAPER TITLE TO A COMPUTERIZED TITLE OR eTITLE
(PREVIOUSLY CALLED eTITLE) TO ENABLE THE COMPUTERIZATION OF HIS/HER REGISTRY TRANSACTIONS.

THIS IS A CERTIFIED TRUE COPY OF THE GOVERNMENT COPY OF THIS TITLE.

(When necessary use this page for the continuation of the technical description)

Entry No. .....

FORTY EIGHT (24,94) SQUARE METERS. All corners are marked on the ground by PH cyl. conc. mons. 15 x 40cm. bounded on the S., along line 1-2 by Lot 20790, Cad-800-D, on the W., along line 2-3 by Lot 20832, Cad-800-D, on the N., along line 3-4 by South China Sea, and on the E., along line 4-1 by Lot 20776, Cad-800-D. Bearings grid. This lot was surveyed by Cadastre Engr. Marcelino N. Taranan on February 20 to April 20, 1989 and approved on March 10, 1998 in accordance with and existing regulations thereunder. NOTE: This lot is covered by P.T.A. No. 04-016-288. . . . .



Entry No. 4364: CORPORATE RESOLUTION TO BORROW: Executed by Consuelo S. Real, Corporate Secretary of JECO DEVELOPMENT CORPORATION, certifying the Board Resolution of JECO DEVELOPMENT CORPORATION doing business under the name and style of Sheridan Beach Resort & Convention Center and Sheridan Villas Boracay (formerly JECO DEVELOPMENT CORPORATION), authorizing Joseph T. Tan, President, to borrow and to Mortgage this property to the Bank of the Philippine Island. Subscribed and sworn to before Nelson C. Oberas, Notary Public, Iloilo City per Doc. No. 58, Page No. 12, Book No. 97, Series of 2010.

Date of Instrument : April 28, 2010
Date of Inscription : May 12, 2010 at 8:35 a.m.

ATTY. MA. RACHEL FE FABROS-DILIG
City Register of Deeds

(Memorandum of Encumbrances continued on Page ..... -B)
(Technical Description continued on Additional Sheet ..... Page ..... -)

Register of Deeds

This is a Certified True Copy of **TCT 168988** on file at **Registry of Deeds of Puerto Princesa City**. This consists of **5** page(s) and does not require a manually affixed signature pursuant to R.A. No. 8792. Printed at **Registry of Deeds of Puerto Princesa City**. Requested By: **PINLAC, CRISTINE MARCH GALO**.

AVELLANO - 1485 SQM
7214 SQM

061

#2

DEED OF ABSOLUTE SALE

KNOW ALL MEN BY THESE PRESENTS:

PEDRO AVELLANO, of legal age, Filipino, married to WILHELMA S. AVELLANO, and a resident of Barangay, Cabacungan, Puerto Princesa City, Palawan, hereinafter referred to as the "VENDOR" in favor of JECO DEVELOPMENT CORPORATION, a domestic corporation duly organized and existing under and by virtue of the laws of the Republic of the Philippines, with principal address at Puerto Princesa City, Philippines, herein represented by its President JOSEPH TAN, of legal age, Filipino, and a resident of Rizal, Puerto Princesa City, Philippines, hereinafter called the "VENDEE".

WITNESSETH:

WHEREAS, the VENDOR is the absolute registered owner in fee simple of a parcel of land situated in Sitio Salvacion, Barangay Cabacungan, Puerto Princesa City, Palawan, Philippines, identified as Lot No. 20787, CAD-860-D, containing an area of Thirty Thousand Nine Hundred One (30,901) Square Meters and covered by Original Certificate of Title (OCT) No. 4827 of the Registry of Deeds of Puerto Princesa City, which parcel is more particularly described as follows:

Lot No. 20787, CAD-860-D

Beginning at a point marked "1" of Lot No. 20787, CAD-860-D, being S. 19°24'E., 337.80 ft. from B.L.L.M. No. 1, Cad-860-D, Puerto Princesa City Cadastre, thence:

S. 51°19'E., 82.00 m. to point 2; S. 37°13'W., 189.51 m. to point 3; N. 81°42'W., 101.76 m. to point 4; N. 2°17'W., 37.26 m. to point 5; N. 65°21'W., 74.48 m. to point 6; N. 06°41'E., 21.73 m. to point 7; S. 51°19'E., 100.00 m. to point 8; S. 51°19'E., 100.00 m. to point 1, point of beginning.

Containing an area of THIRTY THOUSAND NINE HUNDRED ONE (30,901) SQUARE METERS.

All corners are marked on the ground by P.S. Cyl. Conc. Mons., 15 x 60 cms.

Bounded on the N., along line 7-8 by Lot 20778; along line 8-1 by Lot 30617; and along line 1-2 by Lot 20974; on the SE., along line 2-3 by Lot 20781; on the SW., along line 3-4 by Lot 20782; and along lines 4-5 and 5-6 by Road; on the W., along line 6-7 by Lot 20800, all of CAD 860-D.

Province grid.

WHEREAS, the VENDOR offers to sell to the VENDEE, who accepts such offer, one (1) portion of the above-described lot and all the improvements found thereon, which portion is particularly described hereof on Technical Description to follow:

Lot 2, Psd-04

A parcel of land (Lot 2 of the said plan, Psd-04 being a portion of LC Map No. 3780 D, Puerto Princesa Cadastre, L.R.C. Record No.), situated in the Bay

AVELLANO - 1485 sq.m.
- 7,214 sq.m

This is to acknowledge that I have received the owner's copy of land title OCT # 4423 (free Patent no. 04316-95-4141) under in the name of Mr.Primo Avellano.

Received By:

Mr. Primo Avellano

Date sign:

61984

SN NO-284092

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF JUSTICE
Land Registration Commission
REGISTRY OF DEEDS

Original Certificate of Title

No. _____

Entered in accordance with section 122 of Act No. 496 of the Philippine Commission, pursuant to a patent issued by the President of the Philippines, dated at _____ on the _____ day of _____ in the year nineteen hundred and _____ and recorded in the records of the Bureau of Lands, as follows:

B.L. Form No. 28-12

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF NATURAL RESOURCES
BUREAU OF LANDS
District Land Office No. _____

FREE PATENT No. 04 -4141

To All To Whom These Presents Shall Come, Greeting:

Whereas, PRIMO AVELLANO, possessing all the qualifications required by law in the premises, has fully complied with all the conditions, requirements, and provisions of Republic Act No. 782 and Republic Act No. 3872 and Chapter VII of Commonwealth Act No. 141, as amended, governing the granting of free patents to native settlers, and is therefore entitled to a free patent to the following described agricultural public land situated in the Municipality of Palawan, Province of Palawan, Philippines, containing an area of 1485 square meters, more or less, according to the official plat of the survey thereof on file in Region No. _____ Bureau of Lands, and as per Survey Plan No. Pto. Prin. Cad-141 and as per technical description hereto annexed;

Now, Therefore, Know Ye, That by authority of the Constitution of the Philippines, and in conformity with the provisions thereof and of the aforesaid Republic Act No. 782 and Republic Act No. 3872 and Chapter VII of Commonwealth Act No. 141, as amended, there is granted unto the said PRIMO AVELLANO, Barangay Cabayu A, Puerto Princesa City

to the tract of land above described.

To have and to hold the said tract of land with all the improvements thereon, and the hereditaments belonging unto the said PRIMO AVELLANO and to _____ heirs and assigns forever, subject to the provisions of sections 118, 119, 120, 121, 122 and 124 of Commonwealth Act No. 141, as amended, which provide that except in favor of the Government or any of its branches, units, or institutions, the land hereby acquired shall be inalienable and shall not be subject to encumbrance for a period of five (5) years from the date of this patent, and shall not be liable for the satisfaction of any debt contracted prior to the expiration of said period; that every conveyance of land acquired under the free patent provisions, when proper, shall be subject to repurchase by the applicant, his widow, or legal heirs, within a period of five years from the date of the conveyance; that it shall not be encumbered, alienated, or transferred to any person, corporation, association, or partnership, not qualified to acquire lands of the public domain under said Commonwealth Act No. 141, as amended; and that it shall not be subject to any encumbrances whatsoever in favor of any corporation, association or partnership except with the consent of the grantee and the approval of the Secretary of Natural Resources and solely for commercial, industrial, educational, religious or charitable purposes or for a right of way; and subject finally to all conditions and public easements and servitudes recognized and prescribed by law, especially those mentioned in sections 109, 110, 111, 112(c), 113, and 114 of Commonwealth Act No. 141, as amended, and the right of the Government to administer and protect the timber found thereon for a term of five (5) years from the date of this patent, provided, however, that the grantee or his heirs may cut and utilize such timber as may be needed for his or their personal use.

In Testimony Whereof, and by authority vested upon me by law, I, FIDEL V. RAMOS President of the Philippines, have caused these letters to be made patent, and the seal of the Republic of the Philippines to be hereunto affixed.

Given under my hand at _____ on this, the JUN 07 1996 day of _____ in the year of Our Lord one thousand nine hundred and _____

(a) As amended by E.D. No. 635.
(b) As amended by E.D. No. 760.

OCT 1991
0009099899

By Authority of the President of the Philippines

[illegible] GUERRERO
PENRO

Transcribed in the "Registration Book" for the Province of [illegible] pursuant to the provisions of section 41 of Act No. 496, on the [illegible] day of [illegible] nineteen hundred and _____ at _____ m.

Pto. Prin. Cad.
(Owner's Postal Address)

Register of Deeds

OWNERS DUPLICATE CERTIFICATE

SHERIDAN SUPERKALAN — SHERIDAN BACOLOD
May'Engrave'Gamma — Nonong Boss Joe
(034) 433 - 1899
434 - 2750
Fax 434 - 2761
(034) 433 - 0891
433 - 0606

TCT 162988
P 1/3

Page ——— B

(Continuation of the Memorandum of Encumbrances from Page ——— A)

ENTRY NO. 4269 MORTGAGE EXECUTED IN FAVOR
OF [illegible] COVERING THE LAND DESCRIBE
IN THIS TITLE AND TCT/OCT NO. 162988
TO GUARANTEE A PRINCIPAL OBLIGATION OF
112,779.00 SUBJECT TO THE TERMS [illegible]
SET FORTH IN THE DOCUMENT E[illegible]
ACKNOWLEDGED BEFORE ATTY. [illegible]
PUBLIC FOR AND IN THE PASIG UNDER
DOC NO. 247 PAGE NO. 20 BOOK NO. XI SERIES OF 2010
DATE OF INSTRUMENT MAR 07 2010
DATE OF INSCRIPTION: MAR 12, 2010 AT 8:30 A.M.

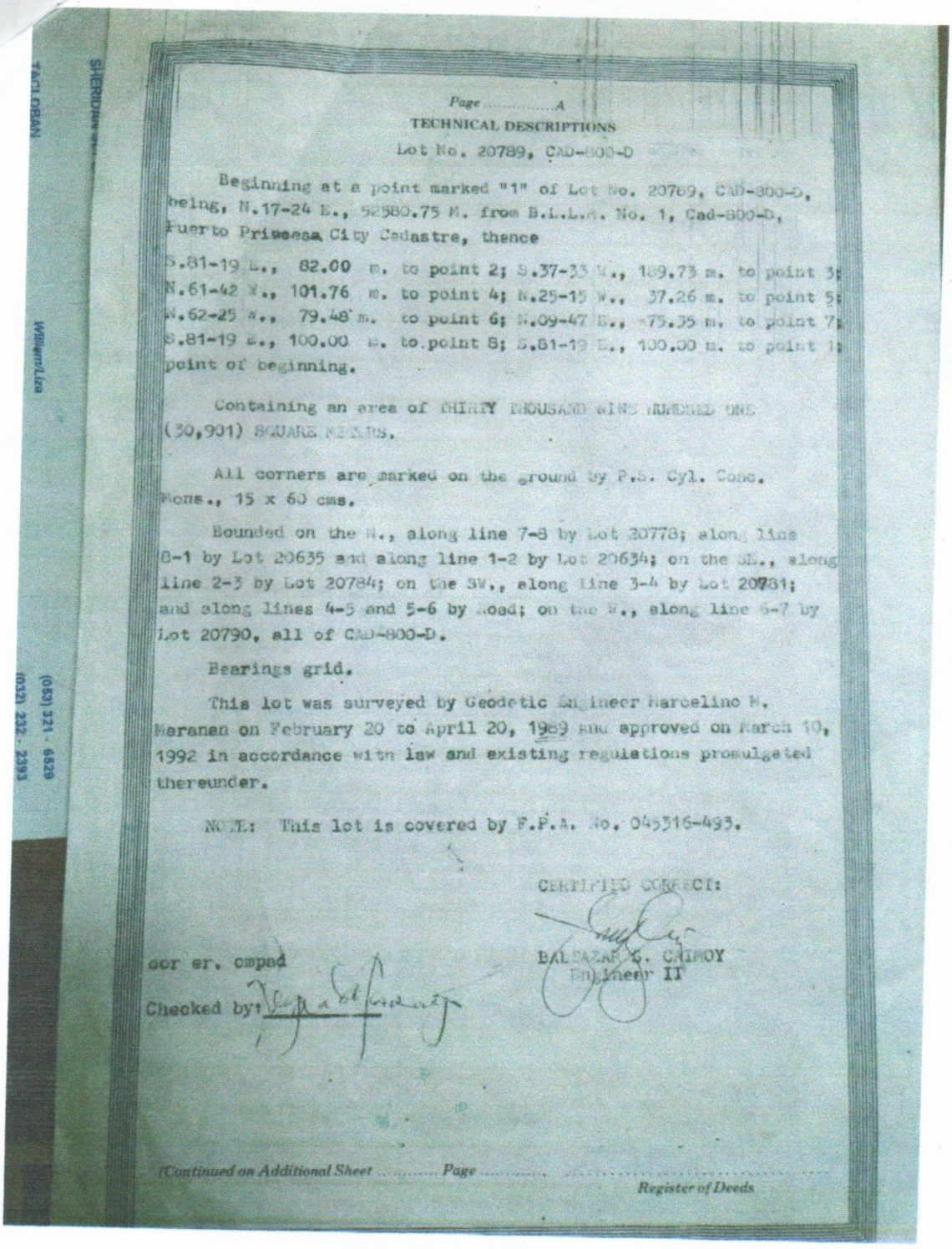
Atty. Ma. Rachel Fe Fabros-Dilig
Register of Deeds III

(Continued on Page ——— C

Register of Deeds

THE LAND OWNER IS REMINDED TO UPGRADE THIS PAPER TITLE TO A COMPUTERIZED TITLE OR cTITLE (PREVIOUSLY CALLED eTITLE) TO ENABLE THE COMPUTERIZATION OF HIS/HER REGISTRY TRANSACTIONS.

THIS IS A CERTIFIED TRUE COPY OF THE GOVERNMENT COPY OF THIS TITLE



Page ..... A

TECHNICAL DESCRIPTIONS

Lot No. 20789, CAD-800-D

Beginning at a point marked "1" of Lot No. 20789, CAD-800-D, being, N.17-24 E., 52580.75 M. from B.L.L.M. No. 1, Cad-800-D, Puerto Princesa City Cadastre, thence

S.81-19 E., 82.00 m. to point 2; S.37-33 W., 189.73 m. to point 3; N.61-42 W., 101.76 m. to point 4; N.25-15 W., 37.26 m. to point 5; N.62-25 W., 79.48 m. to point 6; N.09-47 E., 175.35 m. to point 7; S.81-19 E., 100.00 m. to point 8; S.81-19 E., 100.00 m. to point 1; point of beginning.

Containing an area of THIRTY THOUSAND NINE HUNDRED ONE (30,901) SQUARE METERS.

All corners are marked on the ground by P.S. Cyl. Conc. Mons., 15 x 60 cms.

Bounded on the N., along line 7-8 by Lot 20778; along line 8-1 by Lot 20635 and along line 1-2 by Lot 20634; on the SE., along line 2-3 by Lot 20784; on the SW., along line 3-4 by Lot 20781; and along lines 4-5 and 5-6 by Road; on the W., along line 6-7 by Lot 20790, all of CAD-800-D.

Bearings grid.

This lot was surveyed by Geodetic Engineer Marcelino N. Maranan on February 20 to April 20, 1989 and approved on March 10, 1992 in accordance with law and existing regulations promulgated thereunder.

NOTE: This lot is covered by F.P.A. No. 045316-493.

CERTIFIED CORRECT:

BALTAZAR G. CAIPOY
Engineer II

cor er. cmpad

Checked by:

(Continued on Additional Sheet ..... Page .....)

Register of Deeds

SHERUBAN ... TACLOBAN William/Liza (053) 321 - 6829 (032) 232 - 2393

SHERUBAN
TACLOBAN
William/Liza
(053) 321 - 6829
(032) 232 - 2393

Page ..... A

TECHNICAL DESCRIPTIONS

Lot No. 20789, CAD-800-D

Beginning at a point marked "1" of Lot No. 20789, CAD-800-D, being, N.17-24 E., 52580.75 M. from B.L.L.M. No. 1, Cad-800-D, Puerto Princesa City Cadastre, thence

S.81-19 E., 82.00 m. to point 2; S.37-33 W., 189.73 m. to point 3; N.61-42 W., 101.76 m. to point 4; N.25-15 W., 37.26 m. to point 5; N.62-25 W., 79.48 m. to point 6; N.09-47 E., 175.35 m. to point 7; S.81-19 E., 100.00 m. to point 8; S.81-19 E., 100.00 m. to point 1; point of beginning.

Containing an area of THIRTY THOUSAND NINE HUNDRED ONE (30,901) SQUARE METERS.

All corners are marked on the ground by P.S. Cyl. Conc. Mons., 15 x 60 cms.

Bounded on the N., along line 7-8 by Lot 20778; along line 8-1 by Lot 20635 and along line 1-2 by Lot 20634; on the SE., along line 2-3 by Lot 20784; on the SW., along line 3-4 by Lot 20781; and along lines 4-5 and 5-6 by Road; on the W., along line 6-7 by Lot 20790, all of CAD-800-D.

Bearings grid.

This lot was surveyed by Geodetic Engineer Marcelino N. Maranan on February 20 to April 20, 1989 and approved on March 10, 1992 in accordance with law and existing regulations promulgated thereunder.

NOTE: This lot is covered by F.P.A. No. 045316-493.

CERTIFIED CORRECT:

BALTAZAR G. CAIPOY
Engineer II

cor er. cmpad

Checked by:

(Continued on Additional Sheet ..... Page .....)

Register of Deeds

along lines 4-5 and 5-6 by Road; on the W., along line 6-7 by Lot 20790, all of CAD-800-D.

Bearings grid.

WHEREAS, The VENDOR offers to sell to the VENDEE, who accepts such offer, one (1) portion of the above-described lot and all the improvements found thereon, which portion is particularly described based on advance technical description as follows:

Lot (Portn. of Lot 20790 and Lot 20789)

A parcel of land (Lot Road being a portion of Lot 20790 and Lot 20789, Cad 800-d; L.R.C. Record No.); situated in the Sitio of Sabang, Barangay Cabayugan, Puerto Princesa, Palawan. Bounded on the E. along line 1-2-3; by lot 20789 Portn. on the S., along line 3-4 by Road; and on the W., along line 4-5-6 by Portn. of lot 20789 and Lot 20790, Cad 800-D.

Beginning at a point marked "1" on plan being N., 17 deg. 11' E, 52,550.81 m. from BLLM No. 1, Cad 800-D.

Thence S. 07 deg. 20'E., 100.06 m. to point 2;
Thence S. 03 deg. 04'E., 51.84 m. to point 3;
Thence N. 83 deg. 26'W., 10.05 m. to point 4;
Thence N. 03 deg. 01'W., 50.72 m. to point 5;
Thence N. 07 deg. 13'W., 101.53 m. to point 6;
Thence S. 81 deg. 19" E., 10.00 m. to point of

Beginning containing an area of ONE THOUSAND FOUR HUNDRED EIGHTY FIVE (1,485) SQUARE METERS.

NOW, WHEREFORE, For and in consideration of the amount of **SEVENTY FOUR THOUSAND TWO HUNDRED FIFTY PHILIPPINE PESOS (PhP74,250.00),** in hand to him paid by the VENDEE, to his complete satisfaction, the VENDOR hereby SELLS, TRANSFERS AND CONVEYS all his title, rights and interests over the aforementioned one (1) lot portion, as well as all the improvements that maybe found thereon unto said VENDEE, and its assigns, successors-in-interest.

The VENDOR hereby warrants that he has absolute title over the property sold, and that he holds the same free from any lien, encumbrance, claim or obligation.

The VENDEE shall assume all the expenses, taxes, fees and other similar obligations for the proper registration of this Deed and the issuance of a transfer certificate of title in its name.

IN WITNESS WHEREOF, The Parties have hereunto set their hand this _____, at Puerto Princesa City, Palawan, Philippines.

PRIMO AVELLANO
Vendor

JECO DEVELOPMENT CORPORATION
Vendee

By:

JOSEPH TAN
President

With marital my consent:

WELTHELMA AVELLANO
Vendor's spouse

Witnessed by:

ACKNOWLEDGMENT

Republic of the Philippines)
Province of Palawan) Sc.
City of Puerto Princesa)
x----------x

BEFORE ME, this _____, at the place cited, appeared:

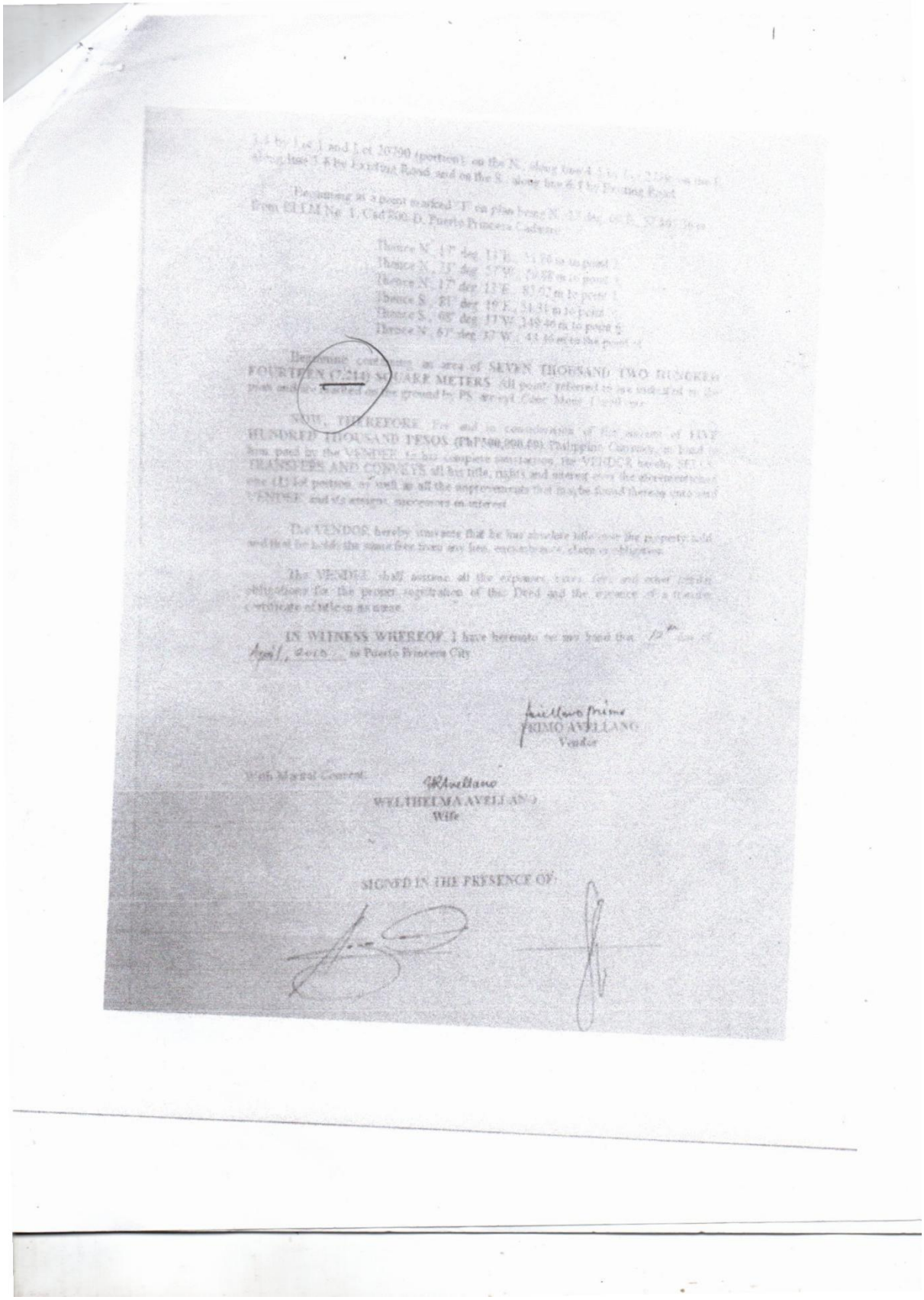
Primo Avellano	-	CTC No. 03127178 / 1-14-2007 / PPC
Welthelma Avellano	-	CTC No. 03127181 / 1-14-2007 / PPC
Joseph Tan	-	CTC No. 01895112 / 1-4-2007 / Bacolod City

who executed the foregoing Deed of Absolute Sale, consisting of three (3) pages including the page on which this acknowledgment is written, and acknowledged to me that said Deed, which refers to the absolute sale of 1,485 square-meter subdivision Lot (Portion of Lot 20790 and Lot 20789), situated in Sitio Sabang, Barangay Cabayugan, Puerto Princesa City, Palawan, Philippines, which is a portion of Lot No. 20789, CAD-800-D and covered by OCT No. 4423 of the Register of Deeds for Puerto Princesa City, is of their own free and voluntary act and deed.

WITNESS MY HAND AND SEAL on the date and at the place first above stated.

Doc. No. 155
Page No. 32
Book No. XXVIII
Series of 2007

LEOPOLDO MARIO P. LEGAZPI
Notary Public
Until 31 December 2007
PTR No. 2939877 / 1-4-2007 / PPC



1-A by Lot 1 and Lot 20790 (portion) on the N., along line 4-5 by Lot 2358, on the E., along line 5-6 by Tagburos Road, and on the S., along line 6-1 by Tagburos Road.

Beginning at a point marked "1" on plan being N. 23 deg. 00 E., 2734.39 m. from BLLM No. 1, Cad 860-D, Puerto Princesa Cadastre;

Thence N. 47 deg. 13 E., 31.70 m. to point 2;
Thence N. 31 deg. 57 W., 19.98 m. to point 3;
Thence N. 47 deg. 13 E., 83.07 m. to point 4;
Thence S. 81 deg. 19 E., 24.36 m. to point 5;
Thence S. 68 deg. 13 W., 148.46 m. to point 6;
Thence N. 67 deg. 37 W., 43.46 m. to the point of

Beginning; containing an area of SEVEN THOUSAND TWO HUNDRED FOURTEEN (7,214) SQUARE METERS. All points referred to are indicated on the plan and are marked on the ground by PS. area of Case Mono I (pcs) xxx.

NOW, THEREFORE, For and in consideration of the amount of FIVE HUNDRED THOUSAND PESOS (Php500,000.00) Philippine Currency, in hand paid by the VENDEE, to his complete satisfaction, the VENDOR hereby SELLS, TRANSFERS AND CONVEYS all his title, rights and interest over the aforementioned one (1) lot portion, or such as all the improvements that may be found thereon unto said VENDEE, and its assigns, successors-in-interest.

The VENDOR hereby warrants that he has absolute title over the property sold and that he holds the same free from any lien, encumbrance, claim or obligation.

The VENDEE shall assume all the expenses, taxes, fees, and other related obligations for the proper registration of this Deed and the issuance of a transfer certificate of title in its name.

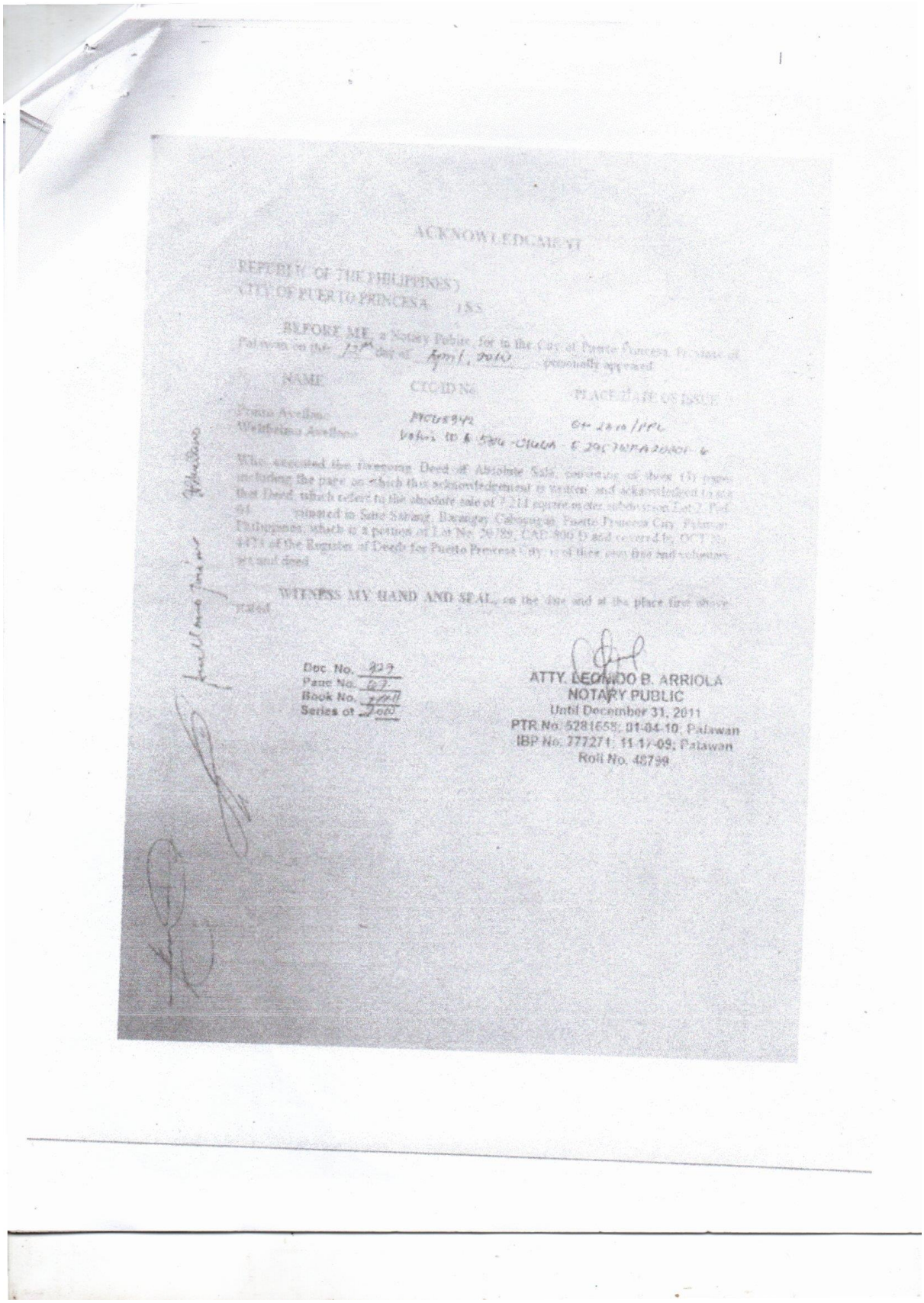
IN WITNESS WHEREOF, I have hereunto set my hand this 12th day of April, 2018 in Puerto Princesa City.

PRIMO AVELLANO
Vendor

With Marital Consent:

WILHELMA AVELLANO
Wife

SIGNED IN THE PRESENCE OF:



ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES)
CITY OF PUERTO PRINCESA) SS.

BEFORE ME, a Notary Public, for in the City of Puerto Princesa, Province of Palawan, on this 13th day of April, 2010 personally appeared

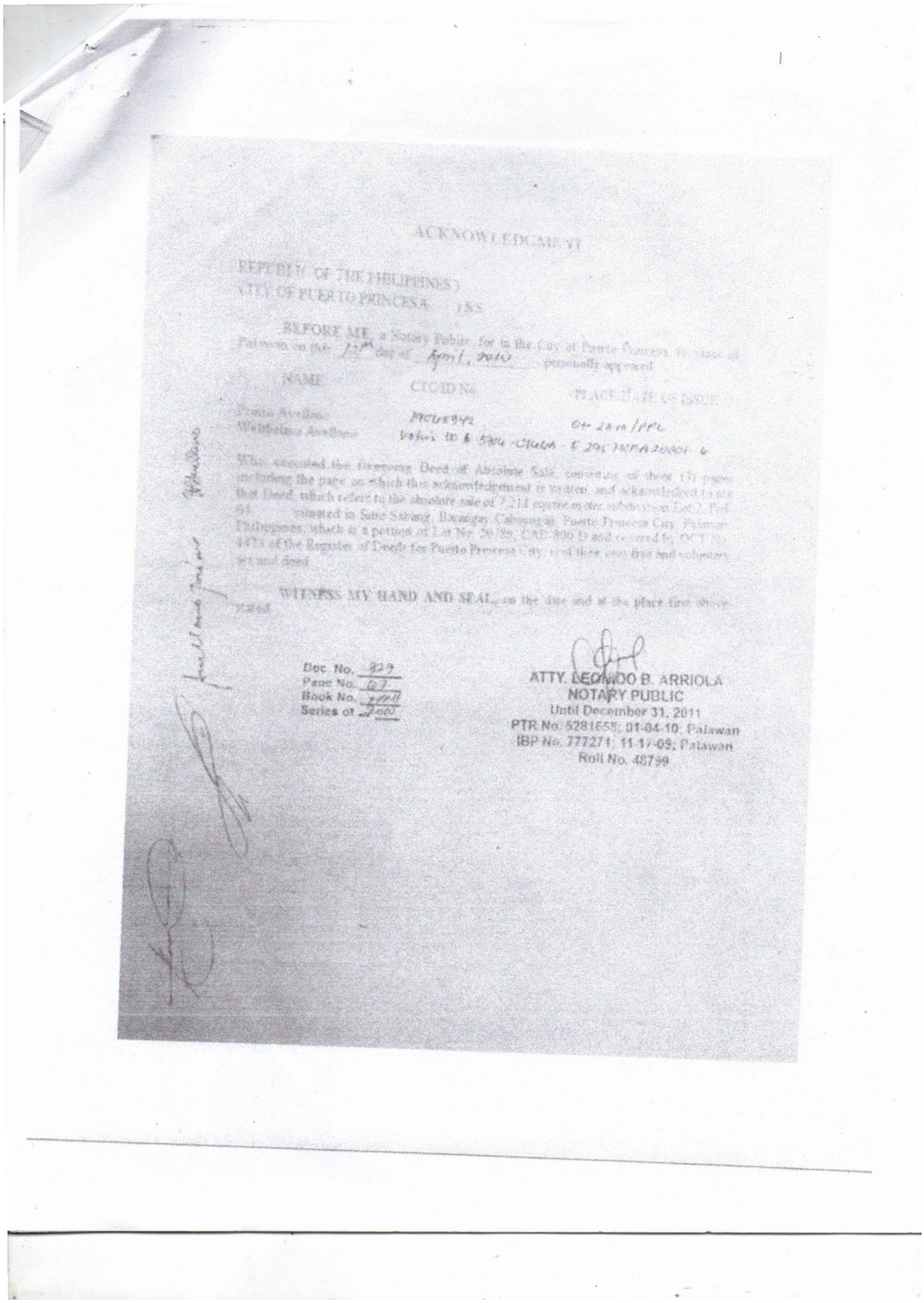
NAME	CTC/ID No.	PLACE/DATE OF ISSUE
Pedro Avellano	[illegible]	[illegible]
Wilfredina Avellano	[illegible]	[illegible]

Who executed the foregoing Deed of Absolute Sale, consisting of three (3) pages including the page on which this acknowledgment is written, and acknowledged to me that Deed, which refers to the absolute sale of 7,211 square meter subdivision Lot 2, Psd-04- situated in Sitio Sabang, Barangay Cabayugan, Puerto Princesa City, Palawan, Philippines, which is a portion of Lot No. 26789, CAD-900-D and covered by OCT No. 4471 of the Register of Deeds for Puerto Princesa City, is of their own free and voluntary act and deed.

WITNESS MY HAND AND SEAL, on the date and at the place first above written.

Doc. No. 929
Page No. 67
Book No. XVII
Series of 2010

ATTY. LEONIDO B. ARRIOLA
NOTARY PUBLIC
Until December 31, 2011
PTR No. 5281655; 01-04-10; Palawan
IBP No. 777271; 11-17-09; Palawan
Roll No. 48799



ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES)
CITY OF PUERTO PRINCESA) SS.

BEFORE ME, a Notary Public, for in the City of Puerto Princesa, Province of Palawan, on this 13th day of April, 2010 personally appeared

NAME	CTC/ID No.	PLACE/DATE OF ISSUE
Pedro Avellano		
Wilfredina Avellano	PRC 058942	04 Jan 2010/PPC
	Voter's ID # 5306-0160A-E-20070928-0001-4	

Who executed the foregoing Deed of Absolute Sale, consisting of three (3) pages including the page on which this acknowledgement is written, and acknowledged to me that Deed, which refers to the absolute sale of 7,211 square meter subdivision Lot 2, Psd-04- situated in Sitio Sabang, Barangay Cabayugan, Puerto Princesa City, Palawan, Philippines, which is a portion of Lot No. 26789, CAD-900-D and covered by OCT No. 4471 of the Register of Deeds for Puerto Princesa City, is of their own free and voluntary act and deed.

WITNESS MY HAND AND SEAL, on the date and at the place first above written.

Doc. No. 329
Page No. 67
Book No. XVII
Series of 2010

ATTY. LEONIDO B. ARRIOLA
NOTARY PUBLIC
Until December 31, 2011
PTR No. 5281658; 01-04-10; Palawan
IBP No. 777271; 11-17-09; Palawan
Roll No. 48799

DADORES-406 SQM.

DEED OF ABSOLUTE SALE

KNOW ALL MEN BY THESE PRESENTS:

Whereas, Lot No. 20790-G, Psd-04-_____ overlaps the adjacent property which the Vendee has acquired from a third person;

Whereas, the Vendor purchased Lot No. 20790-F, Psd-04-_____ from the Vendor and in consideration thereof and to remedy the overlapping, the Vendor alienates under this document the adjacent Lot No. 20790-G, Psd-04-_____ in favor of the Vendee;

Now therefore, I, MARILYN A. DADORES, of legal age, Filipino, single, and a resident of Brgy. Cabayugan, Puerto Princesa City ("Vendor"), for and in consideration of the sum of One Pesos (P1.00), Philippine currency, to me in hand paid by JECO DEVELOPMENT CORPORATION, a domestic corporation duly organized and existing under Philippine laws with principal address at Iloilo City, herein represented by its President, JOSEPH T. TAN, of legal age, Filipino, single and a resident of Bacolod City ("Vendee"), do hereby sell, cede, transfer and convey, absolutely and unconditionally, unto the Vendee, its heirs and assigns a **four hundred six (406) square-meter portion** of the parcel of land identified as Lot No. 20790-G, Psd-04-_____ situated at Brgy. Cabayugan, Puerto Princesa City, Palawan covered by Original Certificate of Title No. 3570 of the Register of Deeds of Puerto Princesa City, of which the Vendor is the absolute owner with the right to sell and transfer the ownership of the same to the herein Vendee.

The Vendee shall shoulder the payment of all taxes and fees due on this sale and in the transfer of title.

In witness whereof I have hereunto set my hand this 02nd day of June 2008 at Puerto Princesa City, Palawan.

MARILYN A. DADORES
Vendor

Signed in the presence of:

Romeo A. Dadores

LORALIE M[illegible]

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES)
CITY OF PUERTO PRINCESA) s.s.

Before me this 02nd day of June 2008 at Puerto Princesa City, Palawan, personally appeared Marilyn A. Dadores with her Postal ID bearing no. 6292556 (valid until 27 May 2013) issued in Puerto Princesa City, known to me as the same person who executed the foregoing *Deed of Absolute Sale* and who acknowledged that the same is her free act and deed.

Witness my hand and seal.

TOMAS MR TIMBANCAYA
Notary Public until 31 December 2009
43 Fernandez St., Puerto Princesa City
PTR No. 0172081 (01-04-2008)/PP City
IBP No. 707664 (12-18-2007)/Palawan
Roll of Attorneys No. 39213

Doc. No. 415
Page No. 83
Book No. 46
Series of 2008

DADORES - 5030 SQM.
2594

DEED OF ABSOLUTE SALE

KNOW ALL MEN BY THESE PRESENTS:

This Deed of Absolute Sale, made and executed by and between:

MARILYN A. DADORES, of legal age, Filipino, single, and a resident of Bgy. Luzviminda, Puerto Princesa City, hereinafter referred to as the VENDOR;

- in favor of -

JECO DEVELOPMENT CORP., a corporation duly organized and existing under the laws of the Philippines with office address at Iloilo City, herein represented by **JOSEPH T. TAN**, of legal age, Filipino, single, and a resident of Puerto Princesa City, hereinafter referred to as the VENDEE;

WITNESSETH:

That the Vendor is the registered owner of a certain parcel of land identified as Lot No. 20790, CAD-800-D, covered by Original Certificate of Title No. 3570 issued by Registry of Deeds of Puerto Princesa City, situated at Bgy. Cabayugan, Puerto Princesa City.

That for and in consideration of the sum of **ONE MILLION FIVE HUNDRED NINE THOUSAND PESOS (PhP 1,509,000.00)** Philippine Currency, the receipt whereof is hereby acknowledged from the VENDEE to the entire satisfaction of the VENDOR, the said VENDOR, does by these presents sells, transfers and conveys, in a manner absolute and irrevocable unto the VENDEE, free and clear of all liens and encumbrances a portion of that certain parcel of land containing an area of FIVE THOUSAND THIRTY (5,030) SQUARE METERS more particularly described below to wit:

Lines	Bearings	Distances
1-2	S. 21 deg. 47'W.,	103.05 M.
2-3	N. 69 deg. 45'W.,	6.42 M.
3-4	N. 69 deg. 45'W.,	10.62 M.
4-5	N. 17 deg. 13'W.,	26.96 M.
5-6	N. 17 deg. 13'W.,	9.97 M.
6-7	N. 17 deg. 13'W.,	4.92 M.
7-8	N. 43 deg. 36'W.,	45.28 M.
8-9	N. 71 deg. 45'E.,	88.92 M.
9-1	S. 51 deg. 02'E.,	17.21 M.

Any and all real property tax accruing to the subject property shall be updated and paid by the VENDOR.

The VENDOR further warrants the validity of her title and the VENDEE'S peaceful possession thereof from all third party claims whatsoever.

That the VENDOR shall execute any additional documentation necessary to complete the title of the VENDEE to the above sold PROPERTY, if necessary, so that the same may be registered in the name of the VENDEE in accordance with the law.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands this 17th

DADORES 5th Addition

DEED OF ABSOLUTE SALE

KNOW ALL MEN BY THESE PRESENTS:

I, MARILYN A. DADORES, of legal age, Filipino, single, and a resident of Brgy. Cabayugan, Puerto Princesa City ("Vendor"), for and in consideration of the sum of Three Hundred Thousand Pesos (P300,000.00), Philippine currency, to me in hand paid by JECO DEVELOPMENT CORPORATION, a domestic corporation duly organized and existing under Philippine laws with principal address at Iloilo City, herein represented by its President, JOSEPH T. TAN, of legal age, Filipino, single and a resident of Bacolod City ("Vendee"), do hereby sell, cede, transfer and convey, absolutely and unconditionally, unto the Vendee, its heirs and assigns a **two thousand five hundred ninety-four (2,594) square-meter portion** of the parcel of land identified as Lot No. 20790-F situated at Brgy. Cabayugan, Puerto Princesa City, Palawan covered by Original Certificate of Title No. 3570 of the Register of Deeds of Puerto Princesa City, which portion of land is particularly described as follows:

Lot No. 20790-F, Psd-04-_____

A parcel of land (Lot No. 20790-F of the proposed subdivision plan), being a portion of Lot No. 20790, Cad. 800-D, Puerto Princesa Cadastre, situated in the Brgy. of Cabayugan, Puerto Princesa City, Island of Palawan. Bounded on the NE., along line 1-2 by Lot No. 20779, Cad. 800-D, Puerto Princesa Cadastre; on the SE., along line 2-3 by Lot No. 20790-G of the proposed subdivision plan (overlapping portion); on the SW., along line 3-4 by Road (10.00 m. wide); and on the NW., along line 4-1 by Lot No. 20790-E of the proposed subdivision plan. Beginning at a point marked "1" on the attached proposed subdivision plan being N. 17 deg. 11' E., 52549.87 meters from BLLM # 1, Cad. 800-D, Puerto Princesa Cadastre; thence S. 81 deg. 19' E., 33.17 m. to point 2; thence S. 08 deg. 26' W., 75.50 m. to point 3; thence N. 83 deg. 27' W., 35.00 m. to point 4; thence N. 09 deg. 47' E., 76.82 m. to point of beginning, containing an area of **Two Thousand Five Hundred Ninety Four (2,594) square meters**.

of which the Vendor is the absolute owner with the right to sell and transfer the ownership of the same to the herein Vendee, free from all liens and encumbrances. And hereby warrant to defend the same against the lawful claims of any and all persons whomsoever.

In witness whereof I have hereunto set my hand this 05th day of June 2008 at Puerto Princesa City, Palawan.

MARILYN A. DADORES
Vendor

Signed in the presence of:

Romeo A. Dadores

LOGANES MARIA CORAZON D.

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES)
CITY OF PUERTO PRINCESA) s.s.

Before me this 05th day of June 2008 at Puerto Princesa City, Palawan, personally appeared Marilyn A. Dadores with her Postal ID bearing no. 6292556 (valid until 27 May 2013) issued in Puerto Princesa City, known to me as the same person who executed the foregoing *Deed of Absolute Sale* and who acknowledged that the same is her free act and deed.

Witness my hand and seal.

TOMAS MR TIMBANCAYA
Notary Public until 31 December 2009
43 Fernandez St., Puerto Princesa City
PTR No. 0172081 (01-04-2008)/PP City
IBP No. 707664 (12-18-2007)/Palawan
Roll of Attorneys No. 39213

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5.0 RATIONALE OF THE EXPANSION PROJECT

Sheridan Beach Resort and Spa has been existing and operating as a resort/hotel in Sitio Sabang in Barangay Cabayugan, in the city of Puerto Princesa. With the highly competitive resort developments in Puerto Princesa, the company decided to expand the facilities and amenities specially having been given the opportunity to engage the services of the worldly renowned Renaissance Hotels International Corporation / Marriott International Corporation to manage the operation of the company under the new name of Four Points By Sheraton Palawan. The expanded and renovated company is made at par or better with international resorts/hotels. The quality of its services and of its facilities and amenities are raised to international standard.

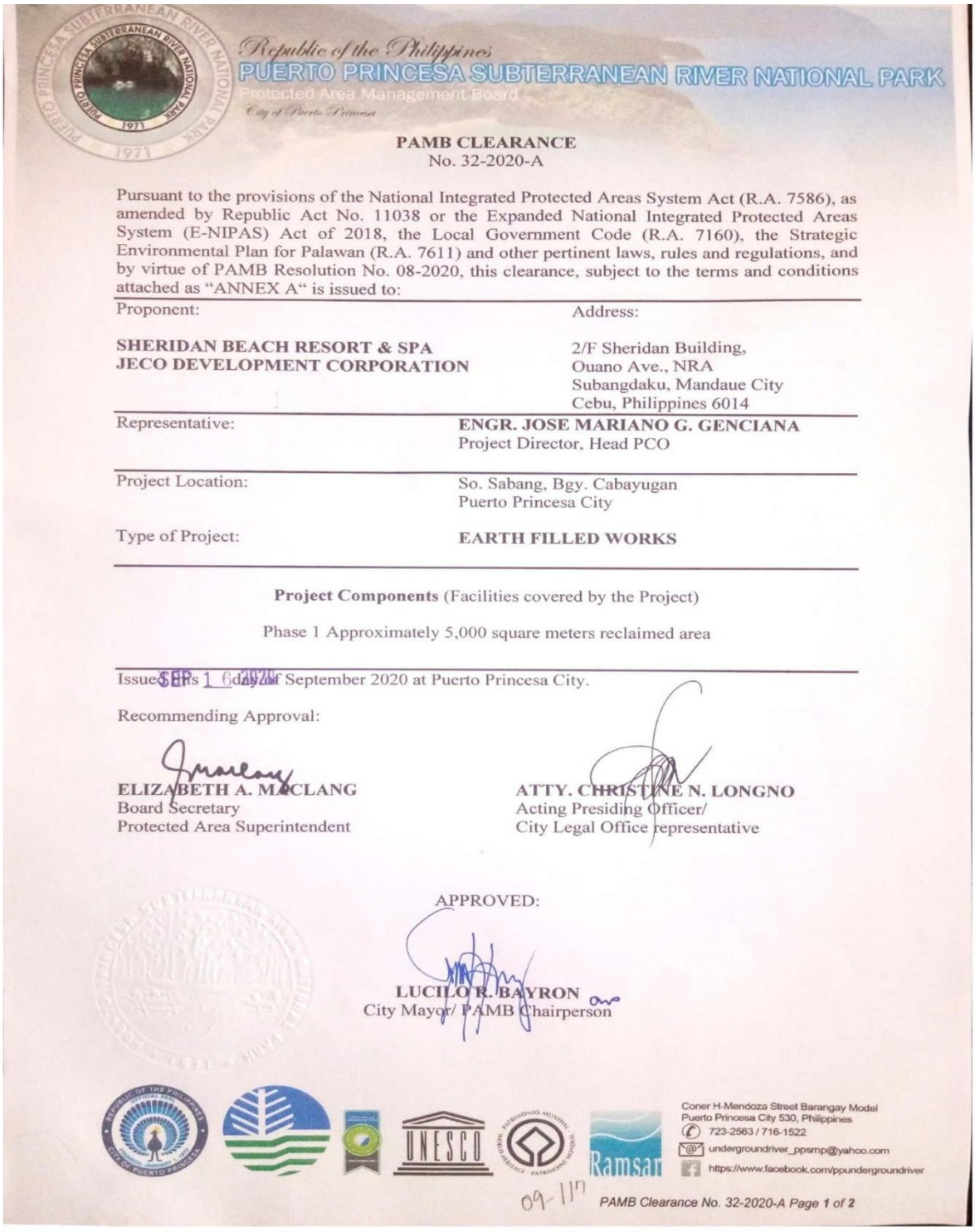
The management has studied the profile of its guests and found out that majority of the visitors are both foreign and domestic families. In order to ensure a complete unforgettable experience for the guests, the management decided to offer waterpark facilities to strengthen family ties as a core value of the company.

Sheridan has a commitment to continually improve its facilities and amenities to encourage its shareholders to invest more in Puerto Princesa City. The additional facilities and amenities will entice its current guests to stay longer due to the variety of the available activities in the resort. The development is expected to generate more jobs in the local community, and will invite more tourists both local and foreign to Puerto Princesa City.

The greater the income of the company, the greater is its contribution to the economy of our country in terms of its taxes… while at the same time showcasing the beauties, the wonders and magnificence of nature found in the last frontier in the province of Palawan.

5.1 Earth Filling Works of about 5,000 square meters within its project site;

The earth filling works is necessary to accommodate the additional buildings, facilities and amenities that the company is building / constructing for its expansion program. The earth filling works area is done on the pond area within the project area.



Republic of the Philippines
PUERTO PRINCESA SUBTERRANEAN RIVER NATIONAL PARK
Protected Area Management Board
City of Puerto Princesa

PAMB CLEARANCE
No. 32-2020-A

Pursuant to the provisions of the National Integrated Protected Areas System Act (R.A. 7586), as amended by Republic Act No. 11038 or the Expanded National Integrated Protected Areas System (E-NIPAS) Act of 2018, the Local Government Code (R.A. 7160), the Strategic Environmental Plan for Palawan (R.A. 7611) and other pertinent laws, rules and regulations, and by virtue of PAMB Resolution No. 08-2020, this clearance, subject to the terms and conditions attached as "ANNEX A" is issued to:

Proponent:	Address:
SHERIDAN BEACH RESORT & SPA **JECO DEVELOPMENT CORPORATION**	2/F Sheridan Building, Ouano Ave., NRA Subangdaku, Mandaue City Cebu, Philippines 6014
Representative:	**ENGR. JOSE MARIANO G. GENCIANA** Project Director, Head PCO
Project Location:	So. Sabang, Bgy. Cabayugan Puerto Princesa City
Type of Project:	**EARTH FILLED WORKS**

Project Components (Facilities covered by the Project)

Phase 1 Approximately 5,000 square meters reclaimed area

Issued this 16 day of September 2020 at Puerto Princesa City.

Recommending Approval:

ELIZABETH A. MACLANG
Board Secretary
Protected Area Superintendent

ATTY. CHRISTINE N. LONGNO
Acting Presiding Officer/
City Legal Office representative

APPROVED:

LUCILO R. BAYRON
City Mayor/ PAMB Chairperson

Coner H-Mendoza Street Barangay Model
Puerto Princesa City 530, Philippines
723-2563 / 716-1522
undergroundriver_ppsmp@yahoo.com
https://www.facebook.com/ppundergroundriver

09-11

PAMB Clearance No. 32-2020-A Page 1 of 2

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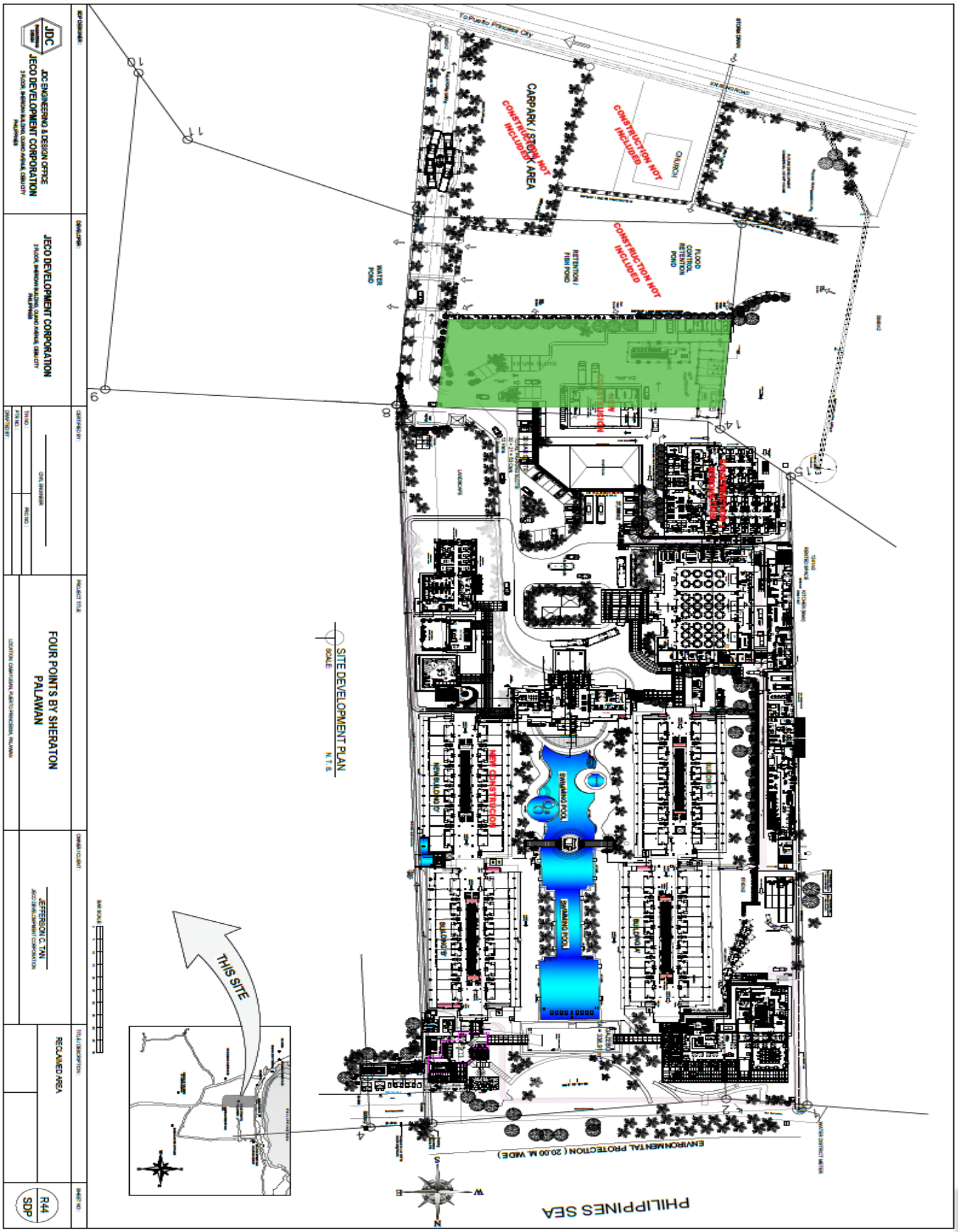
JDC ENGINEERING & DESIGN OFFICE
JECO DEVELOPMENT CORPORATION
JECO DEVELOPMENT CORPORATION
FOUR POINTS BY SHERATON PALAWAN
JEFFERSON C. TAN
RECLAIMED AREA
R44
SDP
SITE DEVELOPMENT PLAN
SCALE
N. T. S.
THIS SITE
To Puerto Princesa City
CARPARK / STORM NOT CONSTRUCTION INCLUDED AREA
CONSTRUCTION NOT INCLUDED
CONSTRUCTION NOT INCLUDED
CHURCH
WATER POND
RETENTION / FISH POND
FLOOD CONTROL RETENTION POND
CONSTRUCTION NOT INCLUDED
CONSTRUCTION NOT INCLUDED
NEW CONSTRUCTION
NEW BUILDING
SWIMMING POOL
SWIMMING POOL
NEW BUILDING
BUILDING
BUILDING
ENVIRONMENTAL PROTECTION (20.00 M. WIDE)
PHILIPPINES SEA

5.2 Additional buildings/ facilities and renovation/extension of the existing buildings and facilities;

The additional building facilities and amenities is to meet the increasing demand for accommodations of guests (local and foreign) and the renovations and extensions of its existing facilities is to enhance the aesthetic and the quality performance of the facilities and over-all raise the standards of the quality services of the company to international standards…to be competitive internationally.

The following are the proposed additional new buildings/facilities and the renovation / extension of the existing buildings / facilities

FACILITIES	AREA (Square meters)
Building D (3 storeys)	4599
Spa / Gym / Kid's Club	644
Dormitory 1 (2- storeys)	2016
Dormitory 2 (3- storeys)	Pending Construction
Warehouse	330
Powerhouse, MEP, STP	286
STP	380
Water Refilling Station	43
Carpentry Workshop	80
Restaurant (All Day Dining/ Kitchen	1370
P Club	707
BOH Kitchen	347
BOH Office & Service Building	244
Laundry Area	359
Perimeter Fencing with Guard House Concrete fence : 150 meters Green Metal fence Existing EPS wall Balayong Trees : 22 pcs	

Republic of the Philippines
PUERTO PRINCESA SUBTERRANEAN RIVER NATIONAL PARK
Protected Area Management Board
City of Puerto Princesa

PAMB CLEARANCE
No. 32-2020-B

Pursuant to the provisions of the National Integrated Protected Areas System Act (R.A. 7586), as amended by Republic Act No. 11038 or the Expanded National Integrated Protected Areas System (E-NIPAS) Act of 2018, the Local Government Code (R.A. 7160), the Strategic Environmental Plan for Palawan (R.A. 7611) and other pertinent laws, rules and regulations, and by virtue of PAMB Resolution No. 08-2020, this clearance, subject to the terms and conditions attached as "ANNEX A" is issued to:

Proponent:	Address:
SHERIDAN BEACH RESORT & SPA **JECO DEVELOPMENT CORPORATION**	2/F Sheridan Building, Ouano Ave., NRA Subangdaku, Mandaue City Cebu, Philippines 6014
Representative:	**ENGR. JOSE MARIANO G. GENCIANA** Project Director, Head PCO
Project Location:	So. Sabang, Bgy. Cabayugan Puerto Princesa City
Type of Project:	SBRS JECO Development Corporation **NEW BUILDINGS**

Project Components (Facilities covered by the Project)

Building D hotel guest rooms
Dormitory 2 (for managers and supervisors)
BOH kitchen
Warehouse
Powerhouse & New advance technology STP facility

Issued this SEP 16 2020 day of September 2020 at Puerto Princesa City.

Recommending Approval:

ELIZABETH A. MACLANG
Board Secretary
Protected Area Superintendent

ATTY. CHRISTINE N. LONGNO
Acting Presiding Officer/
City Legal Office representative

APPROVED:

LUCILO R. BAYRON
City Mayor/ PAMB Chairperson

Corner H-Mendoza Street Barangay Model
Puerto Princesa City 530, Philippines
723-2563 / 716-1522
undergroundriver_ppsmp@yahoo.com
https://www.facebook.com/ppundergroundriver

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Republic of the Philippines
PUERTO PRINCESA SUBTERRANEAN RIVER NATIONAL PARK
Protected Area Management Board
City of Puerto Princesa

PAMB CLEARANCE
No. 32-2020-C

Pursuant to the provisions of the National Integrated Protected Areas System Act (R.A. 7586), as amended by Republic Act No. 11038 or the Expanded National Integrated Protected Areas System (E-NIPAS) Act of 2018, the Local Government Code (R.A. 7160), the Strategic Environmental Plan for Palawan (R.A. 7611) and other pertinent laws, rules and regulations, and by virtue of PAMB Resolution No. 08-2020, this clearance, subject to the terms and conditions attached as "ANNEX A" is issued to:

Proponent:	Address:
SHERIDAN BEACH RESORT & SPA **JECO DEVELOPMENT CORPORATION**	2/F Sheridan Building, Ouano Ave., NRA Subangdaku, Mandaue City Cebu, Philippines 6014
Representative:	**ENGR. JOSE MARIANO G. GENCIANA** Project Director, Head PCO
Project Location:	So. Sabang, Bgy. Cabayugan Puerto Princesa City
Type of Project:	SBRS JECO Development Corporation **EXPANSION AND RENOVATION**

Project Components (Facilities covered by the Project)

ADD Restaurant P Club
Dormitory 1 (for associates and staff)

Issued this SEP 1 0 2020 day of September 2020 at Puerto Princesa City.

Recommending Approval:

ELIZABETH A. MAOLANG
Board Secretary
Protected Area Superintendent

ATTY. CHRISTINE N. LONGNO
Acting Presiding Officer/
City Legal Office representative

APPROVED:

LUCILO R. BAYRON
City Mayor/ PAMB Chairperson

Corner H-Mendoza Street Barangay Model
Puerto Princesa City 530, Philippines
723-2563 / 716-1522
undergroundriver_ppsmp@yahoo.com
https://www.facebook.com/ppundergroundriver

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Republic of the Philippines
PUERTO PRINCESA SUBTERRANEAN RIVER NATIONAL PARK
PROTECTED AREA MANAGEMENT BOARD
City of Puerto Princesa

PAMB CLEARANCE
No. 044-2023

Pursuant to the provisions of the National Integrated Protected Areas System Act (R.A. 7586), as amended by Republic Act No. 11038 or the Expanded National Integrated Protected Areas System (E-NIPAS) Act of 2018, the Local Government Code (R.A. 7160), the Strategic Environmental Plan for Palawan (R.A. 7611) and other pertinent laws, rules and regulations, and by virtue of PAMB Resolution No. 019-2023, this clearance, subject to the terms and conditions attached as "ANNEX A" is issued to:

Proponent:	Address:
JECO DEVELOPMENT CORPORATION	So. Sabang, Bgy. Cabayugan Puerto Princesa City
Representative:	**MS. JESSICA C. VILLAOS** Area Manager (Salton Travel & Tours)
Project Location:	So. Sabang, Bgy. Cabayugan Puerto Princesa City
Type of Project:	**PERIMETER FENCING AND BALAYONG DRIVE**

Project Components
Perimter Fencing with Guard House
Concrete fence: 150 meters
Green metal fence
Existing EPS wall
Balayong Trees: 22pcs.

Issued this ___day of APR 11 2023, 2023 at Puerto Princesa City.

Recommending Approval:

ELIZABETH A. MACLANG
Board Secretary
Protected Area Superintendent

ATTY. ARNEL M. PEDROSA
Acting Presiding Officer/
City Administrator

APPROVED:

LUCILO R. BAYRON
City Mayor/ PAMB Chairperson

JECO
DEVELOPMENT
CORPORATION

24 April 2023

MS. ELIZABETH A. MACLANG
Board Secretary
Protected Area Management Board Office
Puerto Princesa City, Palawan

Dear Ma'am Elizabeth,

Greetings from *JECO DEVELOPMENT CORPORATION!*

As per discussion last Wednesday, April 19, 2023; you have confirmed that our PAMB Clearance for the following

1. Kids' Club
2. Spa Center
3. Gym
4. Water Refilling Station

Is already included in the Clearance issued for the New Constructions since it is included in the Plan of Building D as per listed on our Letter of Intent dated December 9, 2019 and was included in the Deliberation as well. And no need for issuance of separate of PAMB Clearance for the said structures Kids' Club, Spa Center, Gym and Water Refilling Station.

Kindly sign below for confirmation.

Sincerely yours,

JESSICA C. VILLAOS
Area Manager
09774129025
Salton Travel & Tours Corp.
JECO DEVELOPMENT CORP.
Puerto Princesa City, Palawan

Confirmed by:

ELIZABETH A. MACLANG 4.24.2023
Name & Signature / Date

5.3 Change of Power Supply Source from Diesel Generator Sets to One Hundred Percent Solar Power;

The company started its operation in 2008 using its own Diesel generators sets as its sole power source as there was no available outside source of power supply then. Then in 2015 the company started installing its own solar power gradually increasing until it reaches to about 60 % of its total power consumption to date.

Today, it is already operating at 100 % solar power as there is already and outside source of solar power from Sabang Renewable Energy Corporation to complement its in-house power supply of 60 %.

The company is becoming more eco-friendly and greener.

By using solar power, we are eliminating not only the potential emission of air pollutants to the atmosphere but also eliminating the potential contribution of the company to global warming, caused solely by the power generated by diesel engines. This is potentially equivalent to, with respect to its present power demand of 250 KWHr daily will, more or less be equal to carbon dioxide equivalent of 62,871 kilograms or 62.871 tons per year and to its projected power demand for expansion of 350 KWHr per day with CO2 equivalent 88,020 kilograms or 88.020 tons per year.

5.4 Change of Wastewater Treatment Technology;

The water treatment process of the company will be changed to advance technology which is the Membrane BioReactor (MBR) system from the Rotating Biological Contactor (RBC) with Trickling Filter (TF), Secondary Clarifier (SC) and Rapid Sand Filter (RSF) and using Chlorine as a disinfectant.

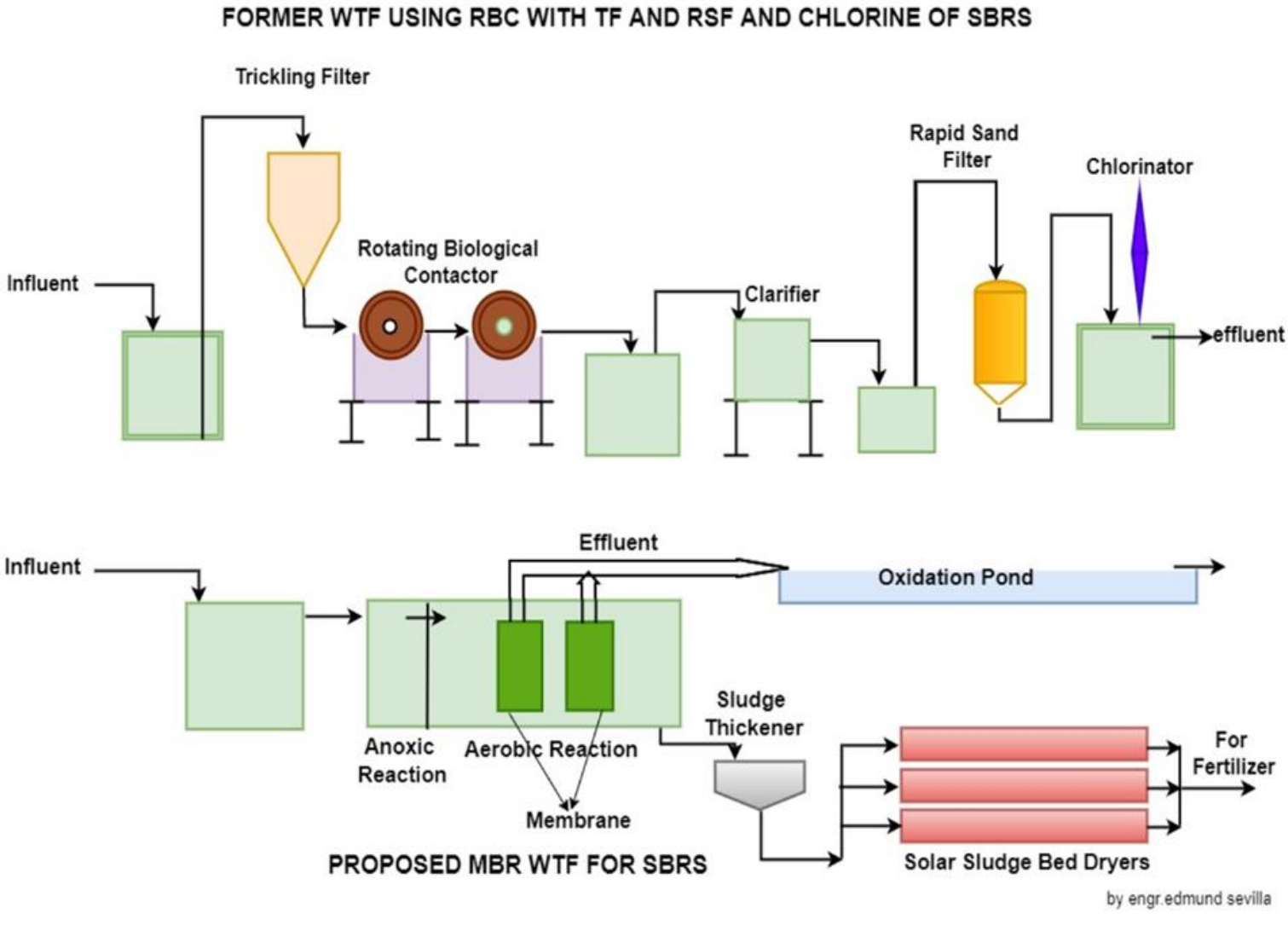
However, the removal of the organic waste matter is still the same. It uses the activated sludge process or the biological treatment. But they differ in the approach of removing the organic waste. The RBC system uses the attached-growth in the propagation of micro-organisms while the MBR uses the suspended growth mechanism.

Further differences are the separation of the sludge (solid particulates) from the clear wastewater and in the removal of harmful organisms. The MBR system uses Ultrafiltration membrane filters. Ultrafiltration is designed to remove turbidity causing particles including those comprised of suspended solids, bacteria, some viruses, colloidal matter and proteins. So, chlorination in removing the harmful bacteria is no longer needed.

It uses filter media with pore sizes of 0.01 micron.

So, in the MBR system, the secondary clarifier, the rapid sand filter, and the chlorination system are eliminated. The permeate or the effluent from the MBR system can possibly be used for bathing but not for drinking…but it can be a source of producing drinking waters.

Another benefits of Membrane Bioreactors includes a reduced footprint, usually from 30 to 50 % smaller than an equivalent conventional activated sludge facility as the sedimentation or clarification tank, sand filter and chlorination are no longer necessary.


FORMER WTF USING RBC WITH TF AND RSF AND CHLORINE OF SBRS
Trickling Filter
Rapid Sand Filter
Chlorinator
Influent
Rotating Biological Contactor
Clarifier
effluent
Influent
Effluent
Oxidation Pond
Sludge Thickener
Anoxic Reaction
Aerobic Reaction
Membrane
For Fertilizer
Solar Sludge Bed Dryers
PROPOSED MBR WTF FOR SBRS
by engr.edmund sevilla

5.5 Change of Management in the Operation of Sheridan Beach Resort and Spa;

The company engages **the services of Renaissance International Hotels Corporation to manage the operation of the company** in order to raise the quality standards to international level of its amenities and services and to be competitive in the international market.

Marriott
INTERNATIONAL

RENAISSANCE HOTELS INTERNATIONAL CORPORATION LIMITED
(PHILIPPINE BRANCH)
No. 10 Newport Boulevard, Newport City Complex, Pasay City, Manila, 1309 Philippines

LUXURY HOTELS INTERNATIONAL OF HONG KONG LIMITED
Suite 1108, 11th Floor, Cityplaza One, 1111 King's Road, Taikoo Shing, Hong Kong

Date: 12 February 2020

Jeco Development Corporation
2F, Sheridan Building, Ouano Ave.,
North Reclamation Area,
Subangdaku, Mandaue, 6014,
Cebu, Philippines
Attn: Mr Jefferson C. Tan

Dear Sirs,

Re: Four Points by Sheraton Palawan, Puerto Princesa ("Hotel") – Change of Hotel Name

1. We refer to:

   (a) the operating services agreement dated 18 September 2018 between Jeco Development Corporation ("Owner") and Renaissance Hotels International Corporation Limited (Philippine Branch) ("Starwood") ("Operating Services Agreement"); and

   (b) the system license agreement dated 18 September 2018 between Owner and Luxury Hotels International of Hong Kong Limited ("Licensor") ("System License Agreement" together with the Operating Services Agreement, the "Relevant Agreements").

2. Any capitalized terms not defined in this letter will have the same meanings as given to them in the Relevant Agreements. The purpose of this letter is to confirm certain understandings and agreements of the parties with respect to amending the Relevant Agreements to reflect the change to the name of the Hotel. This letter is supplemental to the Relevant Agreements and is a written amendment to the Relevant Agreements executed by the parties in accordance Section 11.3 of the Operating Services Agreement and Section 11.1(e) of the System License Agreement (incorporated by reference), respectively.

3. Amendment to the Operating Services Agreement

   Owner and Starwood agree that, on and from the date of this letter, the name of the Hotel set forth in Exhibit A, Part III of the Operating Services Agreement shall be amended by deleting the name "*Four Points by Sheraton Puerto Princesa, Sabang Beach*" and replacing it with the name "*Four Points by Sheraton Palawan, Puerto Princesa*".

4. Amendment to the System License Agreement

Owner and Licensor agree that, on and from the date of this letter, the name of the Hotel in Recital A of the System License Agreement shall be amended by deleting the name "*Four Points by Sheraton Puerto Princesa, Sabang Beach*" and replacing it with the name "*Four Points by Sheraton Palawan, Puerto Princesa*".

5. Except as expressly set forth herein, the terms and conditions of the Relevant Agreements remain unchanged and in full force and effect.

6. Please confirm your agreement with the above by signing the duplicate original of this letter and returning it to the undersigned.

Executed by Starwood:

RENAISSANCE HOTELS INTERNATIONAL CORPORATION LIMITED (PHILIPPINE BRANCH)

By: _____
Name: Francis Tan Hock Chye
Title: Authorized Representative

SIGNED BEFORE ME,

12 FEB 2020

NOTARY PUBLIC
Kok Swee Fong
N2019/0110
1 Apr 2019 – 31 Mar 2020
SINGAPORE

Executed by Licensor:

LUXURY HOTELS INTERNATIONAL OF HONG KONG LIMITED

By: _____
Name: Francis Tan Hock Chye
Title: Authorized Representative

SIGNED BEFORE ME,

12 FEB 2020

NOTARY PUBLIC
Kok Swee Fong
N2019/0110
1 Apr 2019 – 31 Mar 2020
SINGAPORE

ACKNOWLEDGED AND AGREED BY OWNER:

JECO DEVELOPMENT COPORATION

By: _____
Name: _____
Title: _____

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES)
CITY OF Mandaue City) S. S.

I certify that on this date before me, a notary public duly authorized in the city named above to take acknowledgments, personally appeared:

Name	Passport No.	Date/Place Issued
Jefferson Celestial Tan in his capacity as President of Jeco Development Corporation	P2280702A	13 March 2017 DFA Cebu

who were each identified by me through competent evidence of identity to be the same person described in the foregoing instrument, who each acknowledged before me that his/her signature on the instrument was voluntarily affixed by him/her for the purposes stated therein, and who each declared to me that he/she has executed the instrument as his/her free and voluntary act and deed and of the corporation he/she represents and that he/she has the authority to sign on behalf of his/her principal.

FEB 18 2020

Witness my hand and seal this _____ day of _____, 2020.

Doc. No. 430;
Page No. 87;
Book No. 81;
Series of 2020.

VICTOR REY T. GINEDIAN
Notary Public for Mandaue City & Municipalities of Consolacion, Lilo-an, Compostela and Cordova, Cebu
Notarial Commission No. 2020-13; Until 31 December 2021
622 Zamora St., Centro, Mandaue City, Cebu
MCLE Compliance No. VI-0014335; 10-19-18
PTR No. 0913116; 01-02-20; Mandaue City
IBP No. 19898713; 11-04-19; Cebu
TIN 182-402-209
Atty. Roll No. 46698

FOREIGN SERVICE OF THE
REPUBLIC OF THE PHILIPPINES

EMBASSY OF THE PHILIPPINES)
Consular Section) S.S.
Singapore)

CERTIFICATE OF AUTHENTICATION

I, **LAARNI ZORAYDA S. GANDAROSA, Vice Consul** of the Embassy of the Republic of the Philippines to Singapore, duly commissioned and qualified, do hereby certify that **MELISSA GOH** before whom the annexed instrument has been executed, to wit:

NOTARIAL CERTIFICATE SIGNED BY KOK SWEE FONG

was at the time he/she signed the same **SINGAPORE ACADEMY OF LAW** and that his/her signature affixed thereto is genuine.

The Embassy assumes no responsibility for the contents of the annexed instrument.

IN WITNESS HEREOF, I have hereunto set my hand and affixed the seal of the Embassy of the Philippines in Singapore this day of **17 February 2020**

PHILIPPINE EMBASSY SINGAPORE

Service No. : 2599
O.R. No. : *2379874*
Fee Paid : *$42.50*

The validity of this certification shall follow the validity of the attached/underlying document.

LAARNI ZORAYDA S. GANDAROSA
Vice Consul

NC0K190DEF

NOTARIAL CERTIFICATE

TO ALL TO WHOM these presents shall come

I, Kok Swee Fong, NOTARY PUBLIC duly admitted, authorised to practise in the Republic of Singapore, DO HEREBY CERTIFY

AND ATTEST that I was present on 12th February 2020 at Singapore and did then and there see Francis Tan Hock Chye, Authorized Representative of Renaissance Hotels International Corporation Limited (Philippine Branch) and Luxury Hotels International of Hong Kong Limited, sign for and on its respective behalf, the within Four Points by Sheraton Palawan, Puerto Princesa ("Hotel") - Change of Hotel Name letter dated 12 February 2020.

IN FAITH AND TESTIMONY whereof I the said notary have subscribed my name and set and affixed my seal of office at Singapore, this 12th day of February 2020.

REPUBLIC OF SINGAPORE
NOTARY PUBLIC

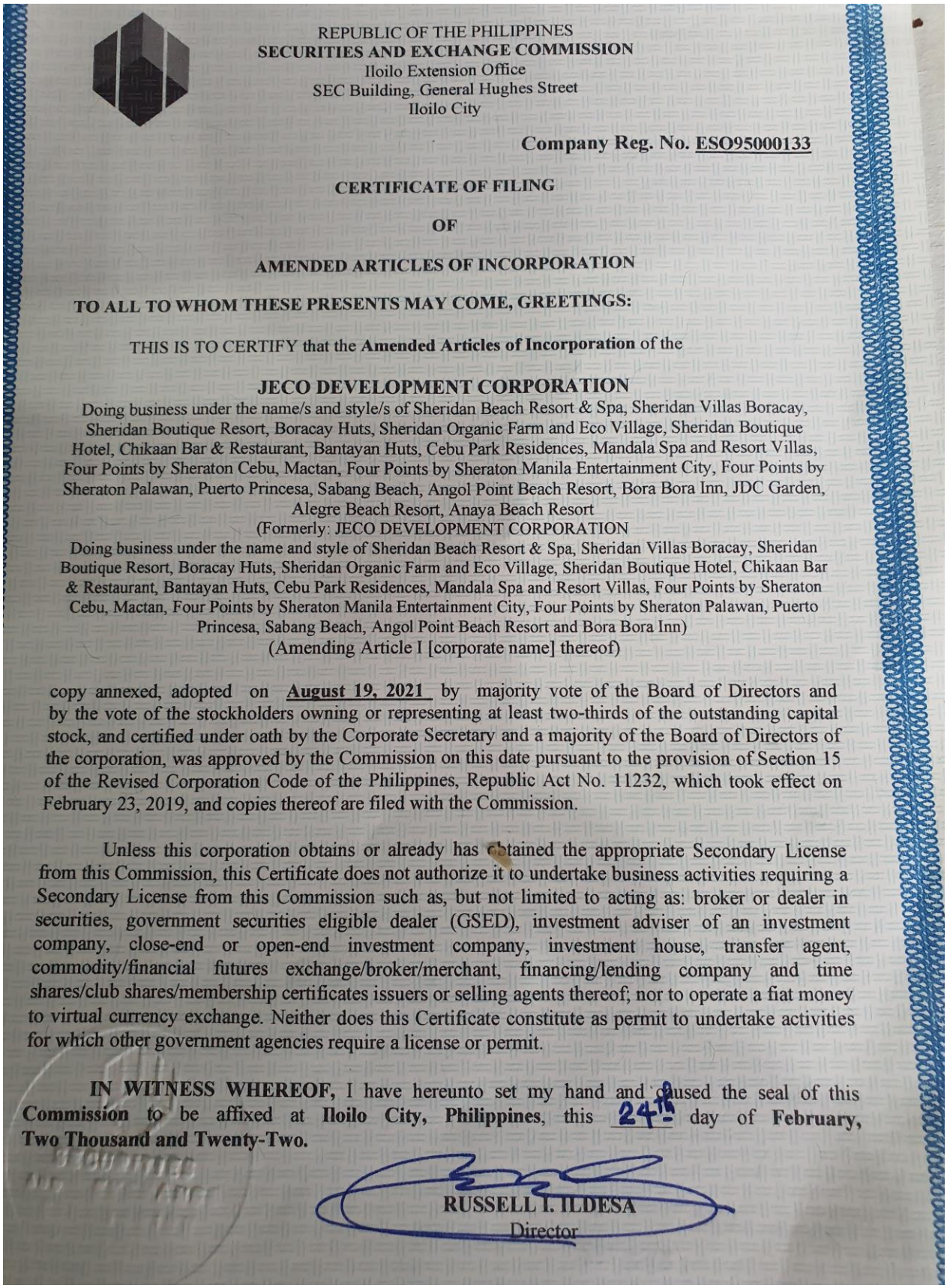
NOTARY PUBLIC
SINGAPORE

NOTARY PUBLIC
Kok Swee Fong
N2019/0110
1 Apr 2019 – 31 Mar 2020
SINGAPORE

By virtue of Rule 8(3)(c) of the Notaries Public Rules, a Notarial Certificate must be authenticated by the Singapore Academy of Law in order to be valid.

5.6 Change of Name of the company

The change of name or REBRANDING of the company from **Sheridan Beach Resort and Spa to Four Points by Sheraton Palawan** is part of the terms of the MOA signed by and between JECO Development Corporation and Renaissance Hotels International Corporation. This also will enhance the competitiveness of the company in the international market for its name recall



REPUBLIC OF THE PHILIPPINES
SECURITIES AND EXCHANGE COMMISSION
Iloilo Extension Office
SEC Building, General Hughes Street
Iloilo City

Company Reg. No. ESO95000133

CERTIFICATE OF FILING

OF

AMENDED ARTICLES OF INCORPORATION

TO ALL TO WHOM THESE PRESENTS MAY COME, GREETINGS:

THIS IS TO CERTIFY that the **Amended Articles of Incorporation** of the

JECO DEVELOPMENT CORPORATION
Doing business under the name/s and style/s of Sheridan Beach Resort & Spa, Sheridan Villas Boracay, Sheridan Boutique Resort, Boracay Huts, Sheridan Organic Farm and Eco Village, Sheridan Boutique Hotel, Chikaan Bar & Restaurant, Bantayan Huts, Cebu Park Residences, Mandala Spa and Resort Villas, Four Points by Sheraton Cebu, Mactan, Four Points by Sheraton Manila Entertainment City, Four Points by Sheraton Palawan, Puerto Princesa, Sabang Beach, Angol Point Beach Resort, Bora Bora Inn, JDC Garden, Alegre Beach Resort, Anaya Beach Resort
(Formerly: JECO DEVELOPMENT CORPORATION
Doing business under the name and style of Sheridan Beach Resort & Spa, Sheridan Villas Boracay, Sheridan Boutique Resort, Boracay Huts, Sheridan Organic Farm and Eco Village, Sheridan Boutique Hotel, Chikaan Bar & Restaurant, Bantayan Huts, Cebu Park Residences, Mandala Spa and Resort Villas, Four Points by Sheraton Cebu, Mactan, Four Points by Sheraton Manila Entertainment City, Four Points by Sheraton Palawan, Puerto Princesa, Sabang Beach, Angol Point Beach Resort and Bora Bora Inn)
(Amending Article I [corporate name] thereof)

copy annexed, adopted on **August 19, 2021** by majority vote of the Board of Directors and by the vote of the stockholders owning or representing at least two-thirds of the outstanding capital stock, and certified under oath by the Corporate Secretary and a majority of the Board of Directors of the corporation, was approved by the Commission on this date pursuant to the provision of Section 15 of the Revised Corporation Code of the Philippines, Republic Act No. 11232, which took effect on February 23, 2019, and copies thereof are filed with the Commission.

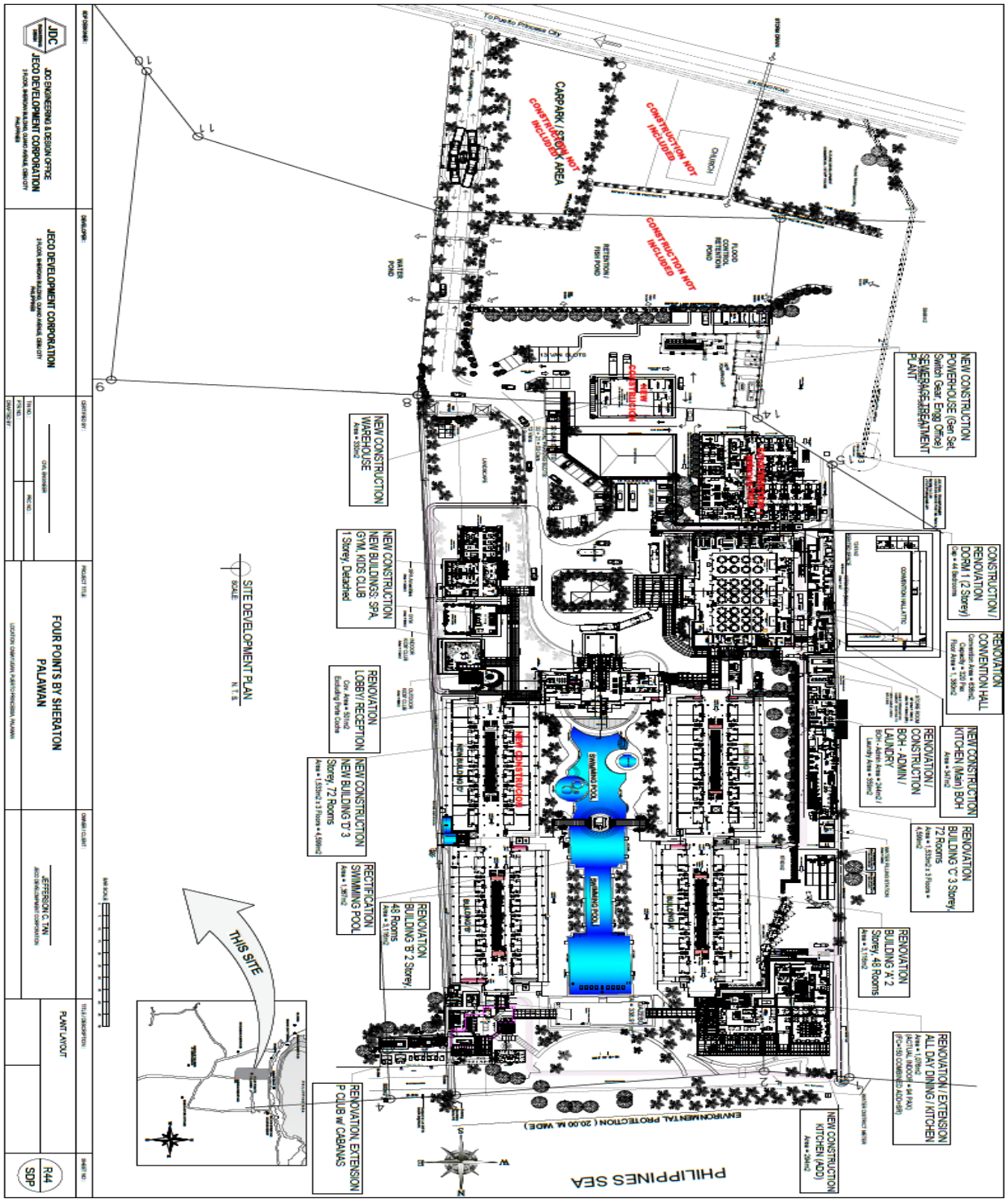
Unless this corporation obtains or already has obtained the appropriate Secondary License from this Commission, this Certificate does not authorize it to undertake business activities requiring a Secondary License from this Commission such as, but not limited to acting as: broker or dealer in securities, government securities eligible dealer (GSED), investment adviser of an investment company, close-end or open-end investment company, investment house, transfer agent, commodity/financial futures exchange/broker/merchant, financing/lending company and time shares/club shares/membership certificates issuers or selling agents thereof; nor to operate a fiat money to virtual currency exchange. Neither does this Certificate constitute as permit to undertake activities for which other government agencies require a license or permit.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the seal of this **Commission** to be affixed at **Iloilo City, Philippines**, this 24th day of **February, Two Thousand and Twenty-Two.**

RUSSELL I. ILDESA
Director

5.7 Increase in land area from 33,688 square meters to 50,917 square meters of the Project Site

The increase in land area within the project site is for the company to become a member of **Tourism Infrastructure and Enterprise Zone Authority (TIEZA)** . To become a member of TIEZA, the company has to have a land area of 5.0 hectares at the minimum. As a member of TIEZA, the company can avail of the financial and non-financial incentives, benefits and privileges like tax holidays and tax exemptions that TEZA can give. This will maximize the profitability of the company.



6.0 ZONING CLASSIFICATION OF THE PROJECT SITE

The land area of the project site is certified under the **Official Zoning Map** of the City of Puerto Princesa to be within the **Tourist Zone (TZ)**, situated in Sitio Sabang, Barangay Cabayugan, Puerto Princesa City.

It is further certified that the **" Four Points by Sheraton Palawan/JECO Development Corporation (Hotel/Resort) "** is allowed within the above-described properties and zones as stated in the Zoning Certification.

Republic of the Philippines
OFFICE OF THE CITY BUILDING OFFICIAL
City of Puerto Princesa

Control No. 22100455

CERTIFICATION

THIS IS TO CERTIFY that under the **Official Zoning Map** of the City of Puerto Princesa, the land particularly described as portion of **Lots 20789 & 20790,** both **Cad-800-D** embraced and covered by **OCT Nos. 4423 & 3570** *(mother title)* respectively, containing a total land area of **16,729** square meters are within the **General Residential Zone (GRZ)** and **Lot 20779, Cad-800-D, Lot 20778-A, Psd-04-153698 and Lot 20632-G** as portion of **Lot 20632, Cad-800-D** embraced and covered by **TCT Nos. 168988, 074-2019002329 & OCT No. 3127** *(mother title)* respectively, containing a total land area of **34,188** square meters are all within the **Tourist Zone (TZ),** all situated in Barangay Cabayugan, this City.

This certifies further that the **"Four Points by Sheraton Palawan/JECO Development Corporation (Hotel/Resort)"** is allowed within the above-described properties and zones. Provided however, that the minimum requirements and development standards of the City Zoning Ordinance, National Building Code and other related laws shall be strictly observed and complied with.

Given this 28th day of October 2022 at the City of Puerto Princesa upon request of **JECO Development Corporation** for whatever legal purpose it may serve best.

ENGR. EDWIN A. ROÑA
Zoning Officer IV
Acting Asst. City Building Official

Certification Fee: P 8,000.00
O.R. No. : 1727586
Issued on : 10/28/2022
Issued at : CTO-PPC

7.0 STRATEGIC ENVIRONMENTAL PLAN CLEARANCE FROM PCSD

Republic of the Philippines
(Republic Act No. 7611)
PALAWAN COUNCIL FOR SUSTAINABLE DEVELOPMENT

PCSD

SEP CLEARANCE

No. AM-FPS-070623-057

Pursuant to the mandate of the Palawan Council for Sustainable Development (PCSD) under Republic Act 7611 and concurred by the Department of Environment and Natural Resources (DENR) as provided in its Memorandum of Agreement with PCSD dated 29 December 1994, this SEP Clearance is issued to:

HOTEL AND RESORT
(FOUR POINTS BY SHERATON PALAWAN, PUERTO PRINCESA)

Name of Project

Sitio Sabang, Barangay Cabayugan, Puerto Princesa City, Palawan

Project Location (Street, Sitio, Barangay, Municipality)

JECO Development Corporation
Represented by Mr. Joseph T. Tan

Name of Proponent

JECO Bldg., Dagumboy Village, Rizal Avenue, Brgy. San Miguel, Puerto Princesa City

Address of Proponent

This Clearance is issued this 6th day of July 2023 in Puerto Princesa City.

PALAWAN COUNCIL FOR SUSTAINABLE DEVELOPMENT STAFF
RELEASED
DATE: 07-11-2023
TIME: 2:31 pm
BY:

NIÑO REY C. ESTOYA, MNSA, CESE
Acting Executive Director, PCSDS

O.R. No. : 0582963 05 9435
Date : 5/29/23 ; 7/11/23
Amount : ~~₱2,000.00~~ ₱50,000.00

Not Valid Without PCSD Official Seal
(PLEASE SEE OVERLEAF FOR THE TERMS AND CONDITIONS OF THIS CLEARANCE)

Vision: Palawan, an innovative and dynamic global center of sustainable development
Mission: PCSDS as the driver of environmental conservation and inclusive development in Palawan, a biosphere reserve and science-for-sustainability site, guided by the Strategic Environmental Plan

HEAD OFFICE:
PCSD Building, Sports Complex Road
Santa Monica Heights, Puerto Princesa City, Palawan, Philippines
☎ (+6348) 434-4235 trunkline • (+6348) 434-4234/telefax
Email: ced@pcsd.gov.ph • Website: www.pcsd.gov.ph | www.pkp.pcsd.gov.ph

METRO MANILA LIAISON OFFICE:
Room 109, G/F Westria Residences
877 West Avenue, 1104 Quezon City, Philippines
Tel. No: (+632) 376-2061 / (+632) 376-2775

II. BRIEF SUMMARY OF PROJECT'S EIA PROCESS

The EIA process covers projects which have been declared as a Non-environmentally Critical Projects (Non-ECP's) in Environmentally Critical Areas
(ECA) which are presumed to have significant impacts on the quality of the environment as stated in Sec. 4 of PD1586 (1978). Section 5 of the same PD provides for projects which are not covered by EIA System but which may be required an environmental safeguards if deemed required by DENR.

Evaluation of the existing facilities show that the proposed expansion project falls under Group II (Non-Environmentally Critical Projects located in Environmentally Critical Areas) based on the Procedural Manual for DENR Administrative Order No. 2003-30. For operating with an ECC but plans to construct additional facilities to increase its production, the appropriate documents is an EIA Report.

Incorporation is the project's environmental performance and its current Environmental Performance Report and Management Plan (EPRMP) or single project applications or Programmatic EPRMP (PEPRMP) for co-located project applications.

The general Methodologies used to conduct the Environmental Impact Assessment for the project consisted of generating secondary and primary information. Secondary data were gathered from existing records of the City Planning and Development Office of Puerto Princesa, PAGASA, NSO and other sources of related literature. Primary data were obtained either through observations during site inspection, direct measurement and interviews of key informants. Relevant supporting documents were also secured from the project proponent.

1.0 Process Documentation

The environmental assessment approach and methodology was based on the revised Procedural Manual of DAO 30-2003. Consistent with the data and information requirements indicated EIA requirements, the study team collected secondary information from different government agencies. Primary data were obtained through sampling and surveys to supplement the secondary information.

The impact assessment of the said project determined the possible risks to the environment and community and recommended mitigation and monitoring measures to ensure risks are either eliminated or reduced. A team was established to conduct the assessment. Both primary and secondary data were collected in order to properly assess the potential risks and impacts of the project. The primary data on the physical and biological parameters of the area were gathered. Secondary data such as maps and other literatures were gathered, especially for the physical environment such as topographical and hydrological maps. Other data from the government agencies were also gathered. The biologist conducted inventory of the different animal species in the area and conducted inventory of the different plant species in the area. After the data were consolidated, potential environmental risks were identified by the team. Risks were rated and environmental management plan was drafted.

2.0 Initial Summary on the preliminary EIA findings on the Key Significant Impacts of the Expansion Project and the corresponding EMP highlights.

The predicted negative impacts are short-term in duration as it will occur only during the construction period. In its operational phase, the negative environmental impacts are reduced. Air pollution is eliminated as the source of power is now 100 percent solar and so is water pollution, as the effluent of the new and advanced Wastewater Treatment Facility which is the membrane Bio-Reactor (MBR) is now free of bacteria and some viruses. The proponent believe that suitable use coupled with protection of these resources and their diversities will enable maintain a bond with the life- giving ecological processes that surround the community.

Table 1 - Summary Matrix of Environmental Impacts

Activities	Environmental Component	Impacts	Assessed Impacts
Pre-construction Phase	Socio-Economics	Increased demand for labor	ST, B, Si
Construction Phase	Air and Noise Quality	TSP generation (dust) and noise from construction	ST, A, I
	Water Quality	Increase in suspended Solids	ST, A, I
	Waste Generation	Increase volume of waste Increase demand for labor and economic activities	ST, A, I
	Socio-Economic		ST, B, Si
Operational Phase	Air and Noise Quality	NO air emission of pollutants and noise is within normal range (Solar power)	P, A, Si
	Water Quality	Increase in suspended solids	P, A, Si
	Waste Generation	Increase volume of waste	P, A, Si

*ST-short term; P-permanent; A-negative; B-positive; Si-significant; I-insignificant

3.0 Mitigation Measures

To address the predicted impacts of the proposed project to the receiving environment, mitigating measures (Table – 2) are included in the Environmental Management Plan.

This is to ensure that project activities will resolve and reconcile with the diverse and sometimes conflicting environmental, demographic, and economic and natural resource issue.

Table 2 - Summary Matrix of Mitigation Measures

ACTIVITIES	IMPACTS	MITIGATION MEASURES
Construction Phase	Increase in noise, dust and air pollutant generation	Day operation only Installation and maintenance of equipment muffler and exhaust system Preventive maintenance schedule should be regularly performed on all equipment All equipment to use shall have undergone preventive maintenance to mobilization Planting around the powerhouse and other noise emitting facility to act as buffer zone
	Generation of solid wastes	Characterize, identify and manage the day to day placement of wastes where classified. Provision of collection bins and proper disposal. MOA with barangay for donation of recyclable materials Maximization of waste recycling and develop procedure for recycling/reuse Full implementation of Ecological Solid Waste Management
	Increase in demand for labor	Positive Impact benefitting the community
	Domestic waste	The proponent shall provide its personnel/workers with toilet and bath facilities, which shall be equipped with septic tank
	Noise Pollution	Operation, repair and maintenance shall be done only during day time Noise generating equipment shall be provided with mufflers, shock-absorbing mountings and the use of sound proofing materiaals
	Wastewater Discharge	Installation of effective and efficient Wastewater Treatment Plant (STP)

Operation Phase	Increase in water demand	Water is always available throughout the duration of the operation of the project using 2-powered deep well and rain water collection. Hence, water is not a problem within the project.
	Traffic congestion	The road right of way should be secured for the duration of the project
	Oil-bearing wastewater	The project should be provided with a drainage system The oil-bearing waste water shall be passed through the oil and water separator or grease trap for treatment before going to the Centralized STP

4.0 Environmental Monitoring Plan

Environmental monitoring provides the information for periodic review and alteration of the environment plan as necessary, to ensure that environment protection is optimize at all stages of the development. The plan will provide an early detection, effective application of measures and demonstrate compliance with the regulatory requirements.

The monitoring program is designed and developed specifically for the proposed project and outlines the parameters and appropriate measures and evaluation techniques.

Table 3 - Environmental Monitoring Plan

Source	Monitoring Scheme	Frequency	Responsible Party
Air and Noise	DENR Air and Noise Quality standards	Quarterly	Proponent / DENR / DENR authorized Lab / PCO
Solid Waste	Provision of waste bins and regular collection and disposal of solid waste. Weighing of generated solid waste	Daily	Proponent
Wastewater	Provision of sanitation Facility and Sewage Treatment facility Recording og water usage and wastewater effluent	Daily	Proponent
Hazardous Waste	Provision of Hazardous Waste Storage Area with secondary containment of hazwaste container and with proper labelling Maintaining Hazwaste Checklists	Weekly	Proponent / EMB-DENR / DENR accredited TSD Facility / PCO

Table 4 - Matrix of Environmental Monitoring Plan (EMoP)

Key Environmental Aspect per Project Phase	Potential Impacts per Envt'l Sector	Parameter to be monitored	Sampling and Measurement Plan			Lead Person	Annual Estimated Cost
			Method	Frequency	Location		
Construction Phase							
Dust & Noise Generation	Air Quality Ambient (TSP)	Total Suspended Particulate (TSS)					
Handling and disposal of construction wastes	Water Quality Land	Solid waste generated and type of waste	Actual Inspection	Daily	Workplace	The proponent and designated environmental office/PCO	5,000.00 during construction phase only
Operation Phase							
Re-greening of open spaces for aesthetics	Positive impact on land and water quality					The proponent and designated environmental office/PCO	76,000.00
Solid and liquid waste generation and disposal	Water Quality	Monitoring of STP effluent (pH,BOD, TSS) Regular inspection and implementation of waste segregation	Grab sampling RA9275 Lab analysis method	Monthly		The proponent and designated environmental office/PCO	240,000.00
Emission from Air pollution source and control installation	Air Quality	Proper Maintenance of stand-by of power generators		Quarterly			20,000.00
Handling of hazardous wastes like fluorescent lamps, batteries, and used oils are stored in properly designated hazard storage place	The Land	Regular Inspection and proper implementation of waste segregation	Stored in a properly designate Hazardous Waste Storage	Monthly		The proponent and designated environmental office/PCO	250,000.00

5.0 DESCRIPTION OF PROJECT ACTIVITIES

5.1 Pre-construction phase

During this phase, planning is necessary prior to actual construction of the project. These includes time for the delivery of the materials, equipment, the quantities and duration of equipment need, classification and number of workers needed and the time required to complete the project.
The pre-construction detail includes the conceptualization of the project design and engineering plans. It is also at this point that the necessary permits are secured. This includes construction permit. Mayor's Permit, endorsement from the local government and ECC among others.
Rules and regulations that will govern the implementation and progress of the construction activities are formulated during this phase.

5.2 Construction Phase

Once the actual construction begins, various activities would take place such as:
Building Construction Activities — The construction of the building will be mostly undertaken by manual activities. Cement mixing will be the main activity that will utilize equipment. Carpentry will take up about 15% of the building activities. Utilities and amenities — The source of electricity will be tapped from the local power and a stand-by generator will likewise be installed. The proponent will install water tank and water pump to store the daily requirement of the project.

5.3 Operation Phase

The resort will be operated as a profit oriented establishment which shall cater to both local and foreign tourist. The resort shall be directly hired and trained giving preference to local residents. Compensation package the staff shall follow the minimum wage requirement of the Department of Labor and Employment.

6.0 BASELINE ENVIRONMENTAL CONDITION FOR CRITICAL ENVIRONMENTAL PARAMETERS, IMPACT ASSESSMENT AND MITIGATION.

This section will describe the various environmental conditions existing at the project site and its surrounding. The baseline data and information provided herein shall be serving as a frame of reference by which any alteration caused by the project's implementation may be compared with. The City has gained the distinction of being a model city — in cleanliness, environmental protection and conservation.

6.1 PHYSICAL PROFILE

6.1.1 Location/Land Area

The City lies at the mid-section of the long strip of Palawan Island province. It is approximately 306 nautical miles from Manila, 206 nautical miles to Panay Island and about 250 nautical miles to Zamboanga. The municipality of Aborian is to the south and the municipalities of San Vicente and Roxas are to the north. Its western side is a coastline of the South China Sea while to the East lies the Sulu Sea.

Total land area is 255,107.00 hectares or 2,551.07 square kilometers covering a stretch over 106 kilometers long with the northwest breadth of 8.5 kilometers in Barangay Bahile. The City has now 35 urban barangays and 31 rural barangays or a total of 66 barangays. Eleven of the 35 urban barangays were reclassified from being rural in 1998, indicating a rapid urbanization of the city.

6.1.2 Topography/Climate/Soil

A chain of tall mountain ranges runs through the entire length of the city, dividing it into two district areas — the east and the west coast. The eastern side is characterized by thin strand lines bordered by swamplands, following series of wide, flat plains to hilly terrain. The western coast has less to offer, being pinched by craggy foothills and rugged mountains close to the sea. Generally the terrain ranges from 10 to 1,000 meters above sea level with rugged mountain areas in the interior.

6.1.2 Climatology

6.1.2.1 Rainfall

The City has two prevailing climate types. The type that prevails in the west coast has two distinct seasons: six months dry (November — April), and six months wet (May — October) with the heaviest recorded rainfall in February. The type prevailing in the east coast has a short dry season with varying heavy rainfall months. Dry months have been recorded during the months of January to April. A recorded rainiest month is September.
September while the lowest rainfall or driest month is usually.

6.1.2.2 Temperature

The City has a uniform high temperature. However, T\there is no marked difference in temperature between areas falling under the first and second type of climate. Generally, the warmest months are March, April, and May; the coolest are November, December, January, and February.

6.1.2.3 Humidity

The City has more or less uniform as well as high relative humidity. The range is from 79 to 86 percent with the annual mean of 84 percent

6.1.2.4 Wind

The City has two distinct prevailing winds, the northeast (NE) monsoon and the southwest (SW) monsoon. The NE monsoon generally sets in October and continues until April. The monsoon blows mainly between north and northeast with a tendency towards an easterly direction at the end of the season. The SW monsoon or the summer monsoon follows the NE monsoon after a transition period of variable winds and calms. The SW monsoon prevails from June to October.

6.1.2.5 Soil

Two very general classifications of soils may be found in the city: lowland and upland. The lowland variety is alluvial in nature found in level areas and characterized by poor internal drainage. Upland soils, formed in place from underlying bedrocks are found in rolling mountainous terrain and have high internal drainage properties.
Nine soil types are predominant, namely: Bolinao Clay, Tagburos Clay, Tapul Clay Loam, Bay Clay, Babuyan Silt Clay Loam, Babuyan Clay, Malaglag Clay, and Hydrosol.

6.1.2.6 Land Use

Approximately, 70 percent of the land area of the city is uninhabitable due to its classification under the land use and zoning. These areas are considered heavily forested. Poor land use is mainly due to the uncontrolled massive migration of the settlers. Shorelines are congested with housing units. These housing units have poor waste disposal system and inadequate water supply. Due to the unsanitary conditions, epidemic is common especially during rainy season.

6.1.3 Geology

No major faults are mapped close to the area. The dominant geologic structures are highly angle schist city planes, generally oriented north-south. The other distinctive feature is the litho logical variety and complexity of the geologic structures observed within the schist’s and the met sediments.
Sub vertical quartz filled veins intruding the schist are also common. The directions of the major veins and vein less are generally oriented north-south to northeast-southeast.

6.1.3.1 Location Within Seismic Belt

The province of Palawan, as shown in figure and, is located outside the main seismic zones of the Philippine archipelago and can be classified as within stable geological ground environment. Furthermore, the site is at far distance to the earthquake generators like the main active branch of the

Philippine Fault, the Verde Passage Fault, the Manila Trench and the Negros Trench.
The earthquake catalogue from the Philippine Institute of Volcanology and seismology (PHIVOLVCS), attached as annex 1, shows that there were only 4 earthquakes registered in Palawan from 1979 to 1999. The four earthquake epicenters are mapped at north western portions of Northern Palawan (annex 2). Three of these occurred at shallow depths (between 6 and 50 kms.) ranging from magnitude 1.9 to 4. One of the earthquakes occurred at 120 j\km deep at a magnitude of 4.9. The epicenter was likewise located on the north western portion of Palawan Island.

6.1.3.2 Water Resources

As Puerto Princesa City lies on a peninsula along the east coast of the Island Province, water almost encircles the city.
The eastern and the western portion of the City are engulfing with numerous bays. Among these are Ulugan Bay, St. Pauls Bay, Conception Bay, Jibbon Bay and Fish Bay. These rich grounds were considered to have potentials for fishery development and ecological tourism development.

6.2 INFRASTRUCTURE AND UTILITIES

6.2.1 Roads

Since the city's road networks are not yet fully developed, the government continues to finance road construction and improvement.
At present, the total road network in the city is 531.5 kilometers, of which 155.9 kms. Is categorized as national roads and 375.6 kms. As city roads, with a total land area of 253,983 hectares, the average road density of the city is 0.21 kms. Per square kilometer. This far below the national standard of 1.0 km. per square kilometer.

Of the total city roads, 309.2 kms (82%) are gravel roads, 38.6 kms. (10%) concrete, 15.6 kms. (4%) asphalt and 12.1 kms. (4%) earth roads. Within the city proper, secondary national roads (Puerto Princesa Wharf Road, Capitol-Canigaran Road, Malvar Road and Irawan- Tagburos roads Puerto Princesa City South Road (PPSR), Salvacion Junction- Bahile Road) are paved in asphalt and the Puerto Princesa North Road (PPNR) has been concrete in 2003.

6.2.2 Bridges

The city has a total of 23 local bridges and 57 national bridges. Of the total local bridges, 13 are timber, 6 concrete and 4 baileys with a considered length of 270.91 linear meters, averaging at 12.90 meters each. The Office of the City Engineering Department (CED) plans to upgrade and improve all local bridges in the next five years. Of the total national bridges, 25 are concrete, 16 steel, 7 timber and9 made of other temporary materials. Their total length is 1,515.19 linear meters, averaging 22.61 meters each.
The permanent bridge is designed to carry 20 tons load while the temporary bridge has 5- 10 tons load capacity.

6.2.3 Airport and Air *Ut*ilities

The existing airport in the city is located close to the commercial center and surrounded by residential and commercial developments. It is utilized mainly for domestic operations and jointly for civil and military aviation.
On account of the apparent increase in tourist arrivals, air traffic demand becomes higher. Since 1992, an annual average of 40,108 local and foreign tourists has been coming in the city. Previously, only the Philippine Airlines (PAL) was providing air transportation in the City. At present, there are two Airlines, PAL and Air Philippines, providing PPC- Manila flights and the airline provided Cebu-lloilo flights. On local destinations, the Pacific Airways provides charter flights between Puerto Princesa City and Cuyo, Busuanga, Culion, Taytay and Elnido.

6.2.4 Sea Port and Sea Transport Utilities

The Port of Puerto Princesa City is located at the eastern coast of the Puerto Princesa Bay. It has a fairly calm harbor owing to the sheltering provided by the bay against the southwest monsoon and induced waves. It is accessed through concrete paved Rizal Avenue and another concrete Malvar Street. Both approaches have steep slopes that make the access somehow difficult and dangerous. With an estimated width of one nautical mile, the sea access could even allow 2 to 3 vessels, side by side, entering or leaving the bay simultaneously.

6.2.5 Water Supply

The Puerto Princesa Water District (PPCWD) provides water to about 30 % of the total households in the city. The system relies on both ground and surface water sources. The major source is from the Irawan River. There are 4 deep wells and 2 infiltration wells in the river basin basically providing about half of the total water production. Other surface water sources are the Bonton River located in Bgy. lwahig, and a springing Bgy. Tiniguiban, PPCWD has 17 pumping facilities that are all operational. The distribution network connects the barangays between Irawan and the city proper. As of August 1998,PPCWD had registered 7.591 water connections of which 1,657 were found inactive.
About 30% of the total rural barangays households were either served by the Level II systems. The rest dependent on pumps and dug wells, undeveloped springs, rivers etc.

6.2.6 Power

Majority of the households in the urban area of the City use electricity. Others get their power requirement from individually/communal generator sets, the rest from kerosene or crude oil | remote areas. A few barangay halls and satellite clinics are energized by a photovoltaic system.
PALECO has been power distributor in the city serving an estimated population of around 52% of the total households in 1995. Service areas include 35 barangays in the urban growth area and 5 barangays in the rural area (Barangay Iwahig, Inagawan, Kamuning, Luzviminda and a part of Mangingisda).
Since 1997, power has been produced by the Parangue Power Company with one power plant in Sta. Lourdes, which has a rated capacity of 16 Megawalls (MW). This more than the city's current maximum power requirement of approximately 11 MW.

6.3 SOCIO ECONOMIC ENVIRONMENT

6.3.1 Population Projections

The City of Puerto Princesa has been undergoing a very dynamic population change. Between 1990 and 1995, the city's population increased at an annual rate of 6.6%. The growth in the urban area was even higher at 7.5%, although the average yearly growth in the rural barangays for the five year period was only 4.5%. Population growth due to in- migration is estimated at 4% per year. The remaining 2.6% is accounted for by natural increase. This scenario plus the fact that almost 50% of the city's population is 18 years old and younger indicate that the high growth rate is expected to continue over the next ten years.
After this period and due to the interplay of various factors such as the increasing land values, the socio-economic development in the city, the legal constraints to certain types of development, and the changes in government development policies, the overall population growth rate in the City and that within the urban growth area will begin to decline. It is expected; however, that population growth in some rural service centers (or centers of clusters of rural Barangays) will speed up as road access to these centers, settlement, agricultural, and other infrastructural projects; and available community services begin to attract people to reside in these areas.
Since the growth rate is depending on a wide variety of factors, population projections have to deal with a high range of uncertainly. Therefore, most of the Barangays are regarded in clusters for the projection without defining where the development in each of the Barangays will go. The suburban and rural Barangays of the urban growth area and the surroundings however are not clustered since each of the Barangays will have its significant development resulting from the urban growth and adopted urban land use plan.

6.3.2 Source of Livelihood

More than 200 hundred jobs are created with this project from working in the Hotel and Restaurant to landscaping on the grounds and farming in our Organic farm.
Agriculture
Farming is the most livelihoods of 8,932 households representing around 30% of the City's total households (1997). Estimated agricultural land of the city is around 39,200 hectares or 15.4% of the City's total land area.

Cultivated area comprised around 11,028 hectares of which 4,600 hectares were planted to temporary crops and 6,428 hectares were devoted to permanent crops. Main products are rice, coconut, fruits, cashew, corn, root crops, coffee and vegetables.

6.3.3 Livestock and Poultry

Livestock and poultry production in the City is raised on a backyard scale mainly due to insufficient supply of feeds. Very few are engaged on commercial scale. Since 1998, upon the operation of the two multinational poultry integrators - the Swift Food Incorporated and Magnolia Food Incorporated, some farmers were encouraged to engage in commercial scale poultry production. In 2000, Swift had 15 contract growers while Magnolia had 6 contract growers. Estimated production of broiler in 2000 by these companies was 823,300 heads.
Table 10 shows the number of heads of livestock and poultry slaughtered in the City's slaughterhouse. However, due to insufficient livestock production in the city, most of them still came from the different municipalities of the province.

TABLE 5 - Livestock and Poultry Slaughtered City of Puerto Princesa 2000

Livestock / Poultry	No. of Heads	Weight (Kg)	Value in Pesos
Cattle	3,617	447,746.60	51,843,666.65
Carabao	74	11,328	555,000.00
Hogs	39,136	186,666.50	10,266,657.50
Goat	1,17	12,623.70	1,017,000.00
Chicken	795,412	1,063,980.90	101,078,185.50
Total	839,256	1,722,345.70	164,760,509.70

6.3.4 Fisheries

Fishing is another vital source of livelihood in the city. The city's coastline stretches over 416 kilometers and its coastal waters (15 kilometers from the shoreline) cover an area of 327,586 hectares. The city is considered as one big coastal community. Seventy-four percent or 49 of its 66 barangays are located in coastal fringes, and our home to thousands of people for whom the sea is vital source of livelihood. In 1997, coastal population represented about 60% of the city's population. Registered fishermen in the city who were mostly engaged in small-scale fishing operations accounted to 1,265 while commercial fishing operators were 21. Their fishing vessels range from lowly non-motorized boats to large pump boats, powered by heavy-duty diesel engines, not exceeding 3 gross tons in size. It is estimated that the City and the Province of Palawan supply around 60% of the fish requirements of Metro Manila.

6.3.5 Forestry

The Palawan Province including the City of Puerto Princesa is covered by RA 7611, otherwise known as the Strategic Environmental Plan for Palawan (SEP). SEP serves as the framework for all developmental undertaking in the province. The Environmentally

Critical Areas Network (ECAN) as discussed in the Environment Sector is the spatial basis for its implementation. The areas covered are classified into the following three (3) main components: Terrestrial Component, Coastal/Marine Zones, and Tribal Ancestral lands In1998, the total forest cover of the City was 151,405 hectares or around 60% of its total land area.

Forest trees are dominated by dipterocarp species. These are common hardwood trees known as the apitong group.

Forest zone where resource utilization is allowed, are within the Buffer Zone and Multiple/Manipulative Zone of the Terrestrial Component.

6.3.6 Education

A well-educated citizenry is a prerequisite to the development of the city. Poor access to education in terms of distance to schools and financial capability of families to send their children to school are the major educational problems. In 1998, school going age population was 61,274 but only 82% were actually in school. About 10,800 of the total schooling going age population of all levels were not studying. The 2000 enrolment increased to 83.8% (54,726 students) including 866 students in vocational training.

At the upper age bracket level (17-21 years old) only 58% were enrolled in college or vocational courses in 1998 with a slight increase to 61% in 2000. About 40% out-of- school youth (OSY) is quite large for a community aspiring for a progress. There is also lack of manpower and vocational training for these OSY's especially in the rural barangays.

Table 6 shows the school population and the enrolment rate as well as the projected school population until 2010.

TABLE 6 - Projected School Population 1998-2010 City of Puerto Princesa

Level	1998 School Age Population	1998 Enrollment	2000 Enrollment	2000 Enrollment	2005 Projected School Age Population	2010 School Age Population
Elementary	28,566	26382 =92%	30,949	28946 =95%	39,949	54,754
Secondary	15,238	13889 =91%	16,253	14,442 =89%	21,329	29,234
Tertiary	17,470	10230 =58%	18,636	11,340 =61%	24,456	33,519
Total	61,274	50501 =82%	65,331	54,726 =84%	85,734	117,507

6.3.7 Coastal and Marine Resources

The city has large productive areas of diverse marine ecosystem that provide shore protection and main source of food and employment in the fisheries and tourism sectors. Its coastline stretches over 416 kilometers, and its coastal waters (15 kilometers from the shoreline) cover an area 327,586 hectares. Mangrove which are important links between the shore and coastal ecosystems, cover an area 5,917 hectares based on 1986 a3erial photograph taken by the National Mapping Resource Information Authority (NAMRIA). These trees form dense forest along coastlines and rivers and act as effective traps of sediment, nutrients, and pollutants. They control freshwater surface flow, stabilize coastal areas, export detritus and act as refuges for fish fry and forage for animals. Mangrove forests are commercially important. They are used for food, building materials, fuel folk medicine and various other purposes. However, the whole province of Palawan is declared to be a mangrove reserve area in 1982 (PD 2552).

Puerto Princesa is considered as one big coastal community. Seventy-three percent of 48 of its 66 barangays are located in the coastal areas, which is home to thousands of people for whom the sea is vital source of livelihood.

With the growth of tourism industry in the City, Coastal resources are becoming more economically valuable over time. However, this resource is threatened by exploitive economic activities.

Over fishing and siltation are putting tremendous strain on the City's coastal resources, resulting in the loss of fishery habitats and water quality affecting various types of marine life including coral reefs, sea grasses, and fish species. As of June 2000, DENNR-CENRO reported that 185.4249 hectares of mangrove forest have been converted into fishponds and beach resorts.

The list of corals, seaweeds, mangroves, species and other marine resources found within Puerto Princesa Bay and other related studies is presented in Annex 12.

6.4 ENVIRONMENTAL PERFORMANCE

6.4.1 Physical Environment Land

The proponent through their environmental management program mitigated this impact by enhancing their open space/land resources and planted with ornamental plant and trees.

6.4.2 Water

A well designed Waste water Treatment Facility was constructed to treat wastewater generated by the operation of the Project.

6.4.3 Wastewater Treatment Facility System

The water treatment process of the company will be changed to advance technology which is the Membrane BioReactor (MBR) system from the Rotating Biological Contactor (RBC) with Trickling Filter (TF), Secondary Clarifier (SC) and Rapid Sand Filter (RSF) and using Chlorine as a disinfectant.

However, the removal of the organic waste matter is still the same. It uses the activated sludge process or the biological treatment. But they differ in the approach of removing the organic waste. The RBC system uses the attached-growth in the propagation of micro-organisms while the MBR uses the suspended growth mechanism.

Further, differences are the separation of the sludge (solid particulates) from water and in the removal of harmful organisms. The MBR system uses Ultrafiltration membrane filters. Ultrafiltration is designed to remove turbidity causing particles including those comprised of suspended solids, bacteria, protozoa, some viruses, colloidal matter and proteins. So, chlorination in removing the harmful bacteria is no longer needed. It uses filter media with pore sizes of 0.01 micron.

In the MBR system, the secondary clarifier, the rapid sand filter, and the chlorination system are

eliminated. The permeate or the effluent from the MBR system can possibly be used for bathing but not for drinking…but it can be a source of producing drinking waters.

Another benefits of Membrane Bioreactors includes a reduced footprint, usually from 30 to 50 % smaller than an equivalent conventional activated sludge facility as the sedimentation or clarification tank, sand filter and chlorination are no longer necessary.

6.4.4 Water runoff / Overflow:

All water runoff or over flow is directed thru the treatment plant then dispersed into our pond at the entrance of the property. This pond is our source of harvesting fish consumed on the property. Therefore the water we put into the pond must be clean.

6.4.5 Rain water collection:

Run off from roof tops goes to our cistern tank and its overflow is diverted to our Drainage line which is channeled to our wastewater treatment plant.

Cistern tanks collect 216 Cubic meters of rainwater.: The rain water harvest is pumped to our active carbon filter treatment plant removing colour, odour and impurities from the Cistern water.

This same filtration system is used for drinking water as a pretreatment stage for our Reverse Osmosis Treatment Plant.

6.5 SOCIO-CULTURAL AND ECONOMIC ENVIRONMENT

6.5.1 Population

Although with very insignificant figure, the operation of the project may indirectly contributed to the increase in the population of the area due to in-migration.

6.5.2 Labor and Employment

The project contributed in the decrease of unemployment in the area by providing jobs to the residents of the barangay. It has been one of the policies of the project to give priority to those who live within the vicinity if the skill needed for a job is available locally.

6.6 IMPACTS MITIGATION PLAN (IMP) FOR CONSTRUCTION/RENOVATION PHASE

This section deals with the measures to be undertaken to minimize the effects of the impacts identified during the construction and renovation phase of the project.

6.6.1 Construction/Renovation Phase

6.6.2 Dust and Noise Management

Common to most improvements, dust generation can easily be controlled by proper collection of debris and implementation of good housekeeping. Noise generating activities should, as much practically as possible, be undertaken only during daytime.

Noise generating equipment shall be properly scheduled. Deployment of equipment | to the site shall be properly scheduled. Equipment utilization shall be properly scheduled to effectively reduce possible nuisance to the vicinity.

6.6.3 Waste Management

Wastewater treatment Facility will be constructed. Septic tank and WTF are already in place to treat domestic wastewater. Solid waste should be segregated according to its recyclability.

Construction waste such as lumber and other debris shall be reused, sold or shall be given free to the laborers for any possible use. Waste from domestic activities, such as food preparation and cooking would be collected and used as organic farm fertilizer and food left over shall be collected by the

Aloha Farm (Organic Farm) where they grow several vegetables fruits and livestock.

6.6.4 Safety of Workers

Adequate warning signs shall be strategically placed within the vicinity. Ample supply of medicine and other medical necessities shall be provide and maintained. All workers shall be strictly required to wear proper working outfits. Adequate lighting shall be provided. Welders. During construction, shall be provided with appropriate working gadgets and Personal Protective Equipment.

6.6.5 Safety and Protection of Employees

Signage shall be provided within the project site such as fire exits, etc. Fire extinguishers, Fire Alarms, Heat and Smoke detectors and other high technology gargets that can be used to minimize the risk of accidents and hazards shall be posted in strategic areas.

6.6.6 Information Educational and Communication (IEC) and Social Development Program (SDP) or Community Assistance Program (CAP)

Tarpaulins were posted at the project site and at the barangay Hall area and pamphlets/leaflets were distributed in Sitio Sabang and in the Barangay proper as a way of informing the public about the expansion project to be undertaken by Sheridan Beach Resort and Spa and to participate in the scheduled Public Scoping for the said Expansion Project.

Pre-approved invitees by EMB4B- MIMAROPA to attend the scheduled Public Scoping for the Expansion Project of Sheridan Beach Resort and Spa were sent to the Barangay Council, the Puerto Princesa City government offices and other concerned government agencies, both National and local offices. NGOs, POs, business, schools, churches, and other institutions, all located within the barangay and Puerto Princesa City areas were likewise, were properly informed and invited about the said scheduled Public Scoping.

The project has been the partner of the Barangay by providing employment to its residents.
The project has been supportive to other activities of the Barangay like sponsorship in sports, clean-up and donation of ecosan toilet and other facilities to the barangay water falls. The project also incorporates with the City Government to facilitate projects such like the turtle sanctuary and beach reclamation to help preserve and protect our natural resources.

6.6.7 Emergency Response Program (ERP)

Contingency planning is necessary for accidents that may occur during construction or operation phases of the project. The main components of the contingency plan include measures to prevent accidents that would result from the impacts and the organization and training of personnel to implement preventive measures and response if there is an accident.

These are the measures to be instituted:

6.6.8 Medical Emergencies

An adequate clinic or trained first aid personnel will be established to provide medications and treat minor injuries and ailments at the project site. A clinic is necessary during operation phase.
A medical doctor will be assigned in the resort.

6.6.9 Emergency Response Team

An emergency response team shall be organized and trained to implement the necessary remedial measures during construction and operation phases of the project. The team shall be equipped with proper communication equipment and first aid kit to properly respond during emergencies.

III. ENVIRONMENTAL PERFORMANCE

III. ENVIRONMENTALPERFORMANCE

A. PROPONENT'SCOMPLIANCE

A.1 Compliance to ECCConditions

ECC CONDITIONS	COMPLIED?		PROOF OF COMPLIANCE
	Y	N	
1. The Proponent operation shall conform to the provision of RA 6969 (Toxic Substances and Hazardous Wastes Control Act of 1990). RA 8749 (Philippine Clean Air Act of 1999), RA 9003 (Ecological Waste Management Act of 2000), and RA 9275 (Philippi Clean Water Act of 2004) and other relevant policies, rules and regulations	✓		RA 6969- M-GR-4B-53-00447 SEE ATTACHED HAZARDOUS WASTE ID RA 8749- 2016-POA-D-0453-778 SEE ATTACHED PERMIT TO OPERATE RA-9275- DP-R4B-19-04029 SEE ATTACHED DISCHARGE PERMIT
2. The Proponent shall install adequate and properly maintain effective Water Pollution Control Facility, to ensure maximum efficiency at all times in order to conform to the prescribed DENR standards	✓		See attached plan of STP
3. That proper Air Pollution Control Installations (APSCI) shall be provided by the proponent to avert pollutant emissions	✓		
4. That the proponent shall setup a competent Environmental Unit and shall be accredited by this Office in accordance with DAO No. 26 series of 1992 (Appointment/Designation of Pollution Control Officer). The Environmental Unit shall be integrated in the proponent's organizational chart to handle all environmental related aspect of the project implementation in addition to the monitoring requirements as specified in the Environmental Management Plan (EMP) / Environmental Monitoring Plan (EMOP) and other environmental commitments such as but not limit to the following:	✓		Designated/Appointed Pollution Control Officer **ENGR. JOSE MARIANO G. GENCIANA**
4.1. Monitor actual project impacts vis-à-vis the predicted impacts and management measures in the EIS;	✓		
4.2. Recomend revisions to the EMP/EMoP, whenever necessary subject to the approval of EMB-4B (MIMAROPA Region);	✓		

4.3. Ensure that data gathered during monitoring activities are properly documented, assessed, evaluated and reported to EMB-4B (MIMAROPA Region) in accordance with the standard formats 4.4. Ensure that monitoring and submission of reports to EMP-4B are carried out as required;	✓		
4.5. Regular submission of semi-annual ECC Compliance Monitoring Report (on or before January 15 and July 15 of each year the project is operational) provided with supporting documents and in accordance with the prescribed format stipulated in the Implementing Rules and Regulations of P.D. 1586	✓		Submitted CMR semi-annual
4.6. Submit a quarterly monitoring report using prescribed format of the Self-Monitoring Report (SMR) pursuant to DAO 2003-27	✓		Submitted SMR quarterly
4.7. Submit an Abandonment Plan two (2) months prior to the abandonment activities. It shall include rehabilitation measures/clean-up, costs remediation of the areas possibly contaminated with toxic hazardous substances and presentation of options on proposed alternative projects in the area		✓	The proponent does not intend to abandon the project.
5. That a copy of the ECC and this Certification shall be posted in a conspicuous location at the field office of the project site clearly visible to the public and shall be adequate framed or otherwise protected against damage and at the barangay bulletin board of the host barangay(s) within thirty (30) days from receipt hereof	✓		

A.2 Compliance to EMPCommitment

MITIGATING MEASURES	Were they Effective?		RECOMMENDATION/s / REMARKS
Which of the following mitigating measures were actually implemented?	Y	N	
LAND			
✓Compliance with conditions of DENR/LGU SLUP, Tree CuttingPermit, ROW, PCA Permit	✓		
✓Limit land clearing as much as possible	✓		
✓Provide temporary fencing for vegetation that will beretained	✓		
✓Promote restoration of damaged or destroyed vegetation wherepossible (e.g., tree planting);	✓		

MITIGATING MEASURES	Were they Effective?		RECOMMENDATION/s / REMARKS
Which of the following mitigating measures were actually implemented?	**Y**	**N**	
☐ Provide erosion control and slope protectionmeasures	✓		
☐ Designate a Spoils Storage Area, with topsoil set aside for later use and allow maximum re-use ofspoils	✓		
☐ Construction during dryseason	✓		
☐ Stabilization of embankment with grasses or other soilcover	✓		
☐ Compliance with the DENR Administrative Order No. 2003-30 and DENR Administrative Order No. 2000-28, Implementing Guidelines on Engineering Geological and Geo-hazard Assessment(EGGA).	✓		
☐ Implementation of the Ecological Solid Waste Management Plan(ESWMP)	✓		
☐ Set-up temporary fence around the constructionarea	✓		
☐ Implement re-use and recycling of wastematerials	✓		
☐ Implement proper segregation, collection and disposal of domestic wastes in designatedareas	✓		
☐ Provide receptacles / bins for solidwastes	✓		
☐ Coordinate with the municipal / city wastecollectors	✓		
☐ Engage third party company for wastecollection	✓		
☐ Implement landscaping and other beautificationmeasures	✓		
☐ Provide adequatebuffer	✓		
☐ Compensate adjacent propertyowners	✓		
WATER			
☐ Set-up properandadequatesanitaryfacilities	✓		

MITIGATING MEASURES	Were they Effective?		RECOMMENDATION/s / REMARKS
Which of the following mitigating measures were actually implemented?	**Y**	**N**	
☐ Strictly require the contractor and its workers to observe properwaste disposal and proper sanitation	✓		
☐ Strictly observe proper waste handling anddisposal	✓		
☐ Provision of wastewater treatment facility (e.g. septic tank, oil andwater separator,etc.)	✓		
☐ Set up silt trap/stilling ponds to minimize downstreamsiltation	✓		
☐ Provision of three-chambered septic tank for domesticsewage	✓		
☐ Provide ring canals around fuelling tanks/ motorpool/ maintenanceareas	✓		
☐ Implement rainwater harvesting and similar measures as analternative source ofwater	✓		
☐ Observe water conservationmeasures;	✓		
☐ Careful selection of project site to avoid disruption of traditional wateruses	✓		
☐ Obtain Water Permit fromNWRB	✓		
☐ Improve efficiency of water supply and distributionsystem		✓	The water sourced is coming from the local water district and deepwell.
☐ Use appropriate design for projectfacilities	✓		
☐ Implement appropriate drainagesystem	✓		
☐ Regularly remove debris and other materials that may obstruct waterflow	✓		
☐ Use appropriate technology (e.g. raised hand-pumps) to protect drinking water from floodcontamination	✓		
	✓		
AIR			
☐ Properly operate and maintain all emission sources (e.g. vehicles,pumps, generator,etc)	✓		
☐ Install when applicable, the appropriate air pollution controldevice/s	✓		

MITIGATING MEASURES	Were they Effective?		RECOMMENDATION/s / REMARKS
Which of the following mitigating measures were actually implemented?	**Y**	**N**	
☐ Strictly enforce good housekeepingpractices	✓		
☐ Control vehicle speed to lessen suspension of roaddust	✓		
☐ Conduct water spraying to suppress dust sources and minimize discomfort to nearbyresidents	✓		
☐ Use covered vehicles to deliver materials that may generatedust	✓		
☐ Properly operate and maintain all noise sources (e.g. vehicles,pumps, generator,etc)	✓		
☐ Install when applicable, the appropriate noise control device/s (e.g., mufflers, silencer, sound barriers,etc.)	✓		
☐ Implement appropriate operatinghours	✓		
☐ Provide adequate buffer and/or planting oftrees	✓		
PEOPLE			
☐ Provide relocation/disturbance compensationpackages	✓		
☐ Prioritize local residents foremployment	✓		
☐ Promptly pay local taxes and other financialobligations	✓		
☐ Regular coordination withLGU	✓		
☐ Prior consultation & coordination to minimize disruption on daily domestic activities & respect for IP rights and culturalpractices	✓		
☐ Ensure participation of IPs in consultations anddialogues	✓		
☐ Provide appropriate traffic/warning signs, lighting,etc	✓		
☐ Regular coordination withLGU	✓		
☐ Provide appropriate warning signs, lighting and barricades,whenever practicable	✓		

MITIGATING MEASURES	Were they Effective?		RECOMMENDATION/s / REMARKS
Which of the following mitigating measures were actually implemented?	**Y**	**N**	
☐ Observe properhousekeeping	✓		
☐ Provide on-site medical services for anyemergency.	✓		
☐ Participate in public awareness programs on health andsafety	✓		
☐ Implement appropriate safety programs for both community andworkers	✓		
☐ Strictly comply with fire, safety and similar regulatoryrequirements	✓		
☐ Strictly comply with requirements of RA6969	✓		Approved Hazardous Waste Generator ID issued

A.3 Air Quality Impact Assessment

Sampling Stations	Parameters	RESULTS OF ANALYSIS FOR THE LAST 3 YEARS			DENR STANDARDS	Pass/Fail	Recommendation/Remarks
		1st	2nd	3rd (current year)			
AMBIENT							
Sampling Station 1 Description: _____	TSP						
	PM10						
	NOx						
	SOx						
	Others						
	1.						
	2.						
	3.						
Sampling Station 2 Description: _____	TSP						
	PM10						
	NOx						
	SOx						
	Others						
	1.						
	2.						
	3.						
Sampling Station 3 Description: _____	TSP						
	PM10						
	NOx						
	SOx						
	others						
	1.						
	2.						
	3.						

N/A

Sampling Stations	Parameters	RESULTS OF ANALYSIS FOR THE LAST 3 YEARS			DENR STANDARDS	Pass/Fail	Recommendation/Remarks
		1st	2nd	3rd (current year)			
PLANT EMISSIONS							
Source Description:	TSP						
	PM10						
	NOx						
	Sox						
	Others						
	1.						
	2.						
	3.						

A.4 Water Quality ImpactAssessment

Sampling Stations	Parameters	RESULTS			DENR STANDARDS	Pass/Fail	Recommendation/Remarks
		1st year	2nd year	3rd year			
				AMBIENT			
Sampling Station 1 Description/ Location: _____ _____	BOD5						
	TSS						
	Oil and Grease						
	Fecal/ Total Coliform						
	Others						
	1.						
	2.						
	3.						
Sampling Station 2 Description/ Location: _____ _____	BOD5						
	TSS						
	Oil and Grease						
	Fecal/ Total Coliform						
	Others						
	1.						
	2.						
	3.						

See attached Water Analysis Result

Sampling Stations	Parameters	RESULTS			DENR STANDARDS	Pass/Fail	Recommendation/Remarks
		1st year	2nd year	3rd year			
				AMBIENT			
Sampling Station 3 Description/ Location: _____ _____	BOD5						
	TSS						
	Oil and Grease						
	Fecal/Total Coliform						
	Others						
	1.						
	2.						
	3.						
				PLANT EFFLUENT			
Description/ Location of plant outfall: _____ _____	BOD5						
	TSS						
	Oil and Grease						
	Fecal/Total Coliform						
	Others						
	1.						
	2.						
	3.						

A.5 Compliance with good practices in HAZARDOUS WASTEManagement

TYPE OF WASTE	HANDLING	STORAGE	DISPOSAL	ADEQUATE?		REMARKS
				Y	N	
Grease Waste from Kitchen Restaurant and Cafeteria	Solid, Liquid and Toxic	Metal Drums	Grease waste are drained and sun dried, stored in hazardous waste storage area using metal drums for future hauling	✓		
Used or Waste Oil	Liquid, Toxic, Corrosive and Flammable	Metal Drums	Stored in hazardous waste storage area using metal drums for future hauling	✓		
Used Cooking Oil	Solid, Corrosive and Flammable	Metal Drums	Stored in hazardous waste storage area using metal drums for future hauling	✓		
Busted Fluorescent Lamp, Led Bulb	Solid, Toxic	Wooden Boxes	Stored in hazardous waste storage area using Wooden Boxes for future hauling	✓		
Used Lead-Acid Batteries	Solid, Liquid, Corrosive, Toxic, Reactive	Hazardous Waste Storage Area	Stored in hazardous waste storage area for future hauling	✓		
Empty Chemical Container (Methanol Fuel Gel Container, Paints, Thinners, And Spray Canister)	Solid, Toxic	Hazardous Waste Storage Area	Stored in hazardous waste storage area for future hauling	✓		
Electrical/Electronic Waste, Ink Cartridges, And Toner	Solid, Toxic	Hazardous Waste Storage Area	Stored in hazardous waste storage area for future hauling	✓		

A.6 Compliance with good practices in SOLID WASTEManagement

TYPE OF WASTE	HANDLING	STORAGE	DISPOSAL	ADEQUATE?		REMARKS
				Y	N	
Biodegradable		MRF		✓		
Non biodegradable		MRF	Junk Shop and Garbage Collector from the LGU	✓		

A.7 CompliancewithgoodpracticesinCHEMICALSAFETYManagement(forthosecompaniesusing/producingchemicalslistedinEMB'sPCL and CCOlist)

Chemicals in PCL and CCO List	ADEQUATE ?* *(put □ if adequate)*				REMARKS
	Risk Management	Training	Handling & Storage	Emergency Preparedness	
	N/A				

B. COMMUNITY RELATIONS

	Yes	No
1. Is there a system for identifying and responding to community and stakeholder concerns?	✓	□
2. Is there a system for informing the community and other stakeholders on environmental matters relative to the company's currentoperations?	✓	□
3. Is the company implementing a community development project or any project directed towards improvingstakeholders	✓	□

C. COMPLAINTS MANAGEMENT

	Yes	No
1. Has the company/proponent received any complaints from the surrounding community and/or other stakeholders due to pollution or other nuisances caused by its operation?	□	✓

If yes, please identify area/s of concern

- □ Offensiveodor
- □ Corrosiveemissions
- □ Particulate/dustemissions
- □ Opaque / black smokeemissions
- □ Colored / contaminated wastewaterdischarges
- □ Noise
- □ Toxic chemical / OilSpill
- □ Flying debris fromconstruction
- □ Scattering / burning of industrialwastes
- □ Others(pls.specify)_____

	Yes	No
2. Has the company/proponent addressed the complaint by implementing a complaints management system?	□	✓
3. Have the appropriate government agencies and other interested parties been informed about the resolution of thecomplaint?	□	✓

IV. PERFORMANCE SPECIFICATIONS FOR WASTEWATER TREATMENT FACILITY USING MEMBRANE BIO-RECATOR (MBR) SYSTEM

1.0 GENERAL REQUIREMENTS

1.1 Membrane Bio-Reactor Treatment Process System

Wastewater generated from the Four Points by Sheraton Palawan, will be treated in a Centralized Wastewater Treatment Facility. It is designed to handle all wastewater from the various contributors that meet in the Equalization tank.
Prospective plant bidders shall propose the Membrane Bio-Reactor (MBR) treatment process capable of treating the given influent wastewater characteristics to the desired effluent wastewater characteristics stipulated in Sections 1.6 and 1.7 of this specification. Any variation to the proposed treatment processes shall be clearly tabulated and indicated. However, the owner preference would be the Membrane Bioreactor (MBR) treatment process with sludge recovery using sludge thickener or dewatering equipment and solar batch drying system.

1.2 Quality

All facilities under this section shall be (1) of the design and manufacture that has been used in similar applications; and (2) demonstrated to the satisfaction of the Owner that the quality is equal to the equipment specified herein. The Contractor shall guarantee the equipment against defects in workmanship, materials and operation for a period of not less than one (1) year.

1.3 Experiences

All Contractors participating in the bidding shall have at least five (5) installations, local or abroad for the past five (5) years. The installations shall be guaranteed to pass the DENR effluent standards. All installations, name and address, shall be listed in the bid documents for the past five (5) years for verification purposes.

1.4 Guarantee

Winning Contractor shall write a guarantee of the process to pass the DENR effluent standards.

1.5 Brief Process Description

The proposed wastewater treatment process shall consist of preliminary and secondary treatment facilities. Preliminary treatment consists of bar screen, oil and grease separator and equalization tank. The secondary treatment consists of Membrane BioReactors.

Wastes sludge from the membrane batch reactors will be stabilized in the aerobic sludge digester and dewatered using belt filter press or plate and frame filter press. Sludge cakes produced will be dried using solar batch bed dryers and will be used as fertilizers in the Organic Farm.

1.6 Influent Characteristics

The proposed treatment plant is designed to handle the influent wastewater with the following characteristics:

Total Suspended Solids, TSS	300 mg/L
Biochemical Oxygen Demand, BOD	300 mg/L
Chemical Oxygen Demand, COD	600 mg/L
Oil & Grease	590 mg/L
pH	6 - 9
Phosphorous	8 mg/L
Total Coliform, MPN /100 ml	10^7 to 10^7

Contributors with wastewater that exceed the set influent characteristics have to undertake preliminary treatment prior to their discharge to the sewer system.
No toxic or hazardous wastes such as Lead, Chromium, Organic Chemicals, Cyanide, Mercury, etc. shall be allowed to be discharged to the sewer system directly without treatment.

1.7 Effluent Discharge Requirements

The quality of wastewater desired to be discharged to nearby creek shall have characteristics not to exceed Effluent Class “SA” Protected Waters and as specified below:

Total Suspended Solids, TSS	< 30 mg/L
Biochemical Oxygen Demand, BOD	< 30 mg/L
Chemical Oxygen Demand, COD	< 80 mg/L
pH	6 - 9
Oil & Grease	< 5 mg/L
Phosphorous	10 mg/L

1.8 Design Flow Rates

The wastewater treatment plant ultimate sewage capacity shall be as follows:

Design Flow rates	200 Cu. M / day

The layout design of the wastewater treatment plant shall as much as possible follow site grading plans. All facilities shall be accessible from the provided access road.

All critical pumps and equipment shall be provided with a 100% stand-by capacity.

Equipment shall be arranged so that plant maintenance can be carried out without disruption to normal operation.

A holding tank shall be provided so that laundry and kitchen discharge can be cooled to a safe level prior to entry into the sewage treatment plant. This facility may also be used as the surge tank for the treatment plant.

The system shall be complete and include:

- Bar Screen
- Oil & Grease Separator
- Equalization Tank
- Sewage Treatment Plant (MBR)
- Submersible pumps, Ejector Pumps and the like
- Dewatering Equipment
- Solar Batch Dryers
- Stand-by power provisions (normally from hotel! stand-by generator)

The STP's will be of the extended aeration design, complete with all necessary auxiliary equipment, including air blowers, air diffusers and headers, sewage pumps, treatment tanks, control systems, access manholes with covers, ladders, flow measuring devices, etc.

Air blowers will be installed in an acoustically treated enclosure. The plant may need to be extended to include tertiary equipment, particularly where the effluent is used to recycle and used in the cooling towers and for landscape irrigation.

Methods of sludge removal, including frequency and access provisions must be resolved during the design stage and confirmed during the construction stage.
All equipment and materials including submersible pumps, bar screens, air blowers, etc. will be suitable for STP applications. All pine work and fittings will be u-PVC pressure pipe with solvent cement joints.

The performance of the system must be demonstrated by comprehensive testing and commissioning.

1.9 DESCRIPTION OF UNIT PROCESSES

1.9.1 Screening

Raw wastewater from the tributary areas will be collected through a piping system that converged in a pumping station at the wastewater treatment plant site. Wastewater is then pumped by submersible pumps to the mechanical bar screen chamber where large objects such as rags, paper, plastic, metals and the like will be removed. These objects, if not removed, may damage the pumps and sludge removal equipment, hang over weirs, and block valves, nozzles, channels, pipelines and appurtenances, thus creating serious plant operation and maintenance problems.

Bar screen clear opening between bars should be no less than one inch (25.4 mm) for manually clean screens. It should be placed on a slope of 30 to 45 degrees from the horizontal. Dual channels shall be provided equipped with necessary gates to isolate flow from the screening unit. The bar screens shall be provided with screenings dewatering mechanism. Bar screen channels shall be protected by guard railing and deck gratings, with adequate provisions for removal or opening to facilitate raking.

1.9.2 Oil and Grease Separation

The wastewater from the restaurant will pass through the Oil and Grease Tank to remove the oil and grease as these will affect the performance of the MBR process system and then it goes to the equalization tank.

1.9.3 Equalization Tank

The wastewater flows by pumping to the equalization tank. The equalization tank is used to equalize the low night time flow and varying wastewater characteristics. It is also used to reduce the dry-weather variations in organic and hydraulic loadings. Wastewater which is stored in the equalization tank for a minimum of 6 hours is pumped intermittently to the aeration tank by pumps. Mechanical mixers may be used to maintain the oxygen level at the tank. Aeration equipment shall be sufficient to maintain a minimum dissolved oxygen level of 1 mg/L in the mixed basin contents. A minimum supply rate should be 0.20 L/s requirements to facilitate process aeration control. Inlets and outlets for all basin compartments should be suitably equipped with accessible external valves, stop plates, weirs or other devices to permit flow control and removal of an individual unit from service. The adjustment of wastewater pH may be necessary therefore acid and base chemical feeding systems shall be provided and to be located near the equalization tanks.

The effluent from the equalization to the MBR tanks shall be done either by pumping.
All operation controls shall be accessed from the programmable logic controller.

1.9.4 Membrane BioReactor – Side-Stream System

The Bioreactor of the MBR – Side-stream System is separate from the Membrane Filters. The Bioreactor tank is divided into two chambers. The first chamber is for Anoxic reaction where there is no addition of air in its operation. This is the de-Nitrification process. In the second chamber, the air is introduce for aerobic reaction.

Air is supplied from the atmosphere by a blower through the air diffusers installed at the bottom of the MBRs. Air application shall be designed to distribute air throughout tank length uniformly.

Each MBR tank shall be comprised of a complete assembly and sludge wasting mechanisms. Aeration equipment shall be jet aspirators. Each aspirators assembly, shall be arranged in such that it is accessible for servicing and positive diffusion for both regulation and complete shutoff of the air supply.

From the Bioreactor the wastewater is sent to the Membrane Filters using an external pressure-driven pump.

MBR uses ultrafiltration filters which has pores sizes of 0.01 microns that is capable of removing bacteria, protozoa and some viruses. The permeate of ultrafiltration membrane can already be used for bathing but cannot be used for drinking. However, it can already be a source in the production of drinking waters.

The effluent coming from the MBR is sent to the Oxidation Pond for final treatment.
The sludge is sent to the Dewatering facilities to thicken further the waste sludge.
The thick sludge or cake is further sent to the solar batch drying system for final drying for it to be used as fertilizers.

1.9.5 Level Detectors

Level sensor with 4-20 mA signal shall be supplied for MBR tank. Level detectors shall not be affected by change in air temperatures and fouling of silt or sludge.
Level sensors shall be of the differential pressure type, non-invasive and suitable in hostile environment. Each sensor shall be independently adjustable and shall provide a distant signal at the selected level.

1.9.6 Controls

The operation of the equipment shall be carried out by programmable logic controller (PLC). The PLC shall be equipped with mechanism to detect and signal any equipment failure and shall automatically take action. Water levels in the MBR shall be controlled by differential pressure level sensors connected to the programmable logic controllers. Float switches shall be

provided as backup level detectors for the MBR basins influent and effluent wet wells. The master control panel shall be provided for automatic or manual control of the wastewater treatment system. The central panel shall be weather proof and suitable for all weather environment.

The PLC shall be of the design and construction that will last for at least 5 years period. The panel shall be NEMA 4 enclosures and provided complete with all breakers, relays, transformers and supplementary contacts as noted herein.

The programmable controller shall be provided with a keypad and display no less than 4 lines x 20 characteristics to enable the operators to easily adjust all cycle times and sequences efficiently. The programmable controller shall have sufficient memory for automatic control of the process described herein and shall include an additional free memory capacity of 25%.

All panel control items shall be accessible from the front face of the panel The panel face shall be provided with a “Manual, Off, Automatic” selector switch for each blower, pump, valve and decanter. The control panel shall be equipped with one pilot light assembly for each motor. Light shall be wired in parallel with the related motor starter to indicate that the motor is or should be running.

The control panel shall be equipped with circuitry to shut down the pump motor when required to protect the pump from damage caused by excessive humidity of temperature.

A thermostat and signal relay shall be mounted on each pump to detect the rise and fall of motor temperature. If the pump temperature shall rise to a level which could cause damage to pump, the thermostat shall cause the signal relay to drop “out” the motor starter.

An indicator visible in front of control panel shall indicate that the pump motor has been stopped due to high temperature condition. The pump shall remain locked out until the pump has completely cooled and the circuit has been manually reset. Automatic reset of such circuit shall not be allowed.

Devices shall be clearly marked and identified as to its application. Identifying numbers shall be in white and with black color background engraved in nameplates and shall be permanently mounted in front of the panel.

The control systems shall be provided with a pre-programmed control sequence for Fill, React, Settle, Decant, Sludge Wasting and Idle. The control system shall also allow the operator to vary any of the pre-programmed cycle lengths and to start/stop the air blowers in the react cycle during the periods of low oxygen demands.

In the event of a control failure, the MBR automatically switch to level operation. When the control system is returned to service, operator changes shall remain in effect.

Panel wiring shall be type MTW, sized per applicable cords and 16 gauge minimum wire size. Wiring terminal blocks shall be tubular clamp type thermoplastic rated 300V. No more than two wires shall be allowed to terminate at any one terminal.

Pilot lights shall be 220 VAC direct type, push-to-test, with transformers to operate 6 volt incandescent lamps. Lenses shall be illuminated, round extended push buttons.

The control panel shall be shipped completely factory-wired, assembled and factory-tested.

1.9.7 Flow Measurement

The influent wastewater, effluent wastewater, air flows and waste sludge shall be provided with measuring devices such as electronic transducers that can be read/accessed from the programmable logic controller (PLC)

1.9.8 Aerobic Sludge Digesters

Excess sludge generated from the MBR tank shall be stored and stabilized in the aerobic digester. Aerobic digestion is a method of sludge stabilization in an open tank. Microbiological activity beyond cell synthesis is stimulated by the aeration, oxidizing both the biodegradable organic matter and some cellular material into CO2, H2O and NOs.

The aerobic digester shall be provided with aeration system. Aeration system shall consist of Jet Aspirators (or equal).

1.9.9 Dewatering Facility

Digested sludge will be dewatered using mini-belt press or pressure filter press. The sludge passes through the cloth while the solids are retained and form a cake on the surface of the cloth. Sludge cake produced shall be hauled and disposed off-site to agricultural lands as soil conditioners. Polymer is added to strengthen the sludge formed.

Other sludge dewatering equipment may be proposed but shall be submitted to the Owner for approval. Dewatering equipment shall be housed in a separate room.

1.9.10 Buildings

All facilities such as administration/laboratory, air blower room, chemical room and dewatering facility room shall follow the Philippine Building Code. All buildings shall be provided with proper lighting, ventilation, air conditioning, noise barriers, etc that may be required for the smooth operation of the building.

1.9.11 Piping and Valves

All piping and appurtenances and valves shall be in accordance with Sections 15400 of the Plumbing Specifications.

1.9.12 Ventilation System

Ventilation requirement for the STP shall be designed and installed by the Contractor.

V. INTEGRATED ENVIRONMENTAL IMPACTS AND MANAGEMENT PLAN

Generic Environmental Performance Report and Management Plan

I. ENVIRONMENTAL IMPACT MANAGEMENT AND MONITORING PLAN FOR CURRENT OPERATIONS & PROPOSED EXPANSION/MODIFICATION

Possible Environmental/ Social Impacts	Baseline Environment (at the time of expansion/modification application)	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
LAND				
☑ Consistency with land use	Current land use w/in 1km radius (as per zoning ordinance): ☐ Residential ☐ Commercial/ Institutional ☐ Industrial ☑ Agricultural/ Recreational ☐ Protected Areas ☐ Others, specify: Actual land uses w/in 1km radius: ☐ Residential ☐ Commercial/ Institutional ☐ Industrial ☑ Agricultural/ Recreational ☐ Protected Areas ☐ Others, specify:	☑ See attached proof of compatibility with land use ☑ Limit project activities to what is compatible to the land use ☐ Others, specify:	Actual land uses w/in 1km radius: ☐ Residential ☐ Commercial/ Institutional ☐ Industrial ☐ Agricultural/ Recreational ☐ Protected Areas ☐ Others, specify:	
☐ Disturbance to wildlife due to vegetation clearing during expansion	Existing vegetation in the expansion area: ☑ Forestland ☐ Marshland ☐ Grassland ☐ Mangrove ☐ Wetland	☑ Comply with conditions of DENR/LGU CLUP, Tree Cutting Permit, ROW, Permit ☑ Limit land clearing as much as possible ☑ Provide temporary fencing for vegetation that will be retained	☑ Annual inspection of area replanted/ revegetated ☐ Others, specify:	

Possible Environmental/ Social Impacts	Baseline Environment (at the time of expansion/modification application)	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
	☐ Others, specify:	☑ Promote restoration of damaged or destroyed vegetation where possible (e.g., tree planting); ☐ Others, specify:		
☑ Land tenure/ compatibility issue (in expansion area)	Identify land tenure/ compatibility issues: ☐ CARP ☐ CADC/ CADT/ CALC/ CALT ☐ ROW ☐ Informal settlers ☐ Ecologically sensitive or protected area ☑ Others, specify: FOREST LANDUSE AGREEMENT FOR TOURISM- FLAgT	☑ Obtain the following clearances/ permits from concerned agencies: ☐ Resettlement Plan prepared ☐ Provide relocation/disturbance compensation packages ☐ Ensure participation of IPs in consultations and dialogues ☐ MOA prepared/signed ☐ Provide adequate buffer ☑ Others, specify: LEASE CONTRACT	☑ Regularly monitor presence/absence of complaints ☑ Regular coordination with LGU or appropriate agencies ☐ Others, specify:	
☐ Change in surface landform/ topography/ terrain/slope (in expansion area) ☐ Soil Erosion(in expansion area)	Slope in expansion area: ☑ Flat (0-3%) ☐ Gently sloping to rolling (3-18%) ☐ Steep (>18%) Is the project site's expansion area located in an area identified by MGB/PAG-ASA/ PHIVOLCS as hazard prone? ☐ Yes ☉ No	Considering the natural hazards and climate projections in the area: ☐ Employ appropriate erosion control and slope protection measures ☐ Designate a spoils storage area, with topsoil set aside for later use and allow maximum re-use of spoils ☐ Construction during dry season ☐ Stabilization of embankment with grasses or other soil cover	☐ Regular inspection of slope protection measures in erosion-prone areas ☐ Regular inspection for new eroded areas near the site ☐ Others, specify:	

Possible Environmental/ Social Impacts	Baseline Environment (at the time of expansion/modification application)	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
		☐ Conduct Engineering Geological and Geo-hazard Assessment (EGGA) and implement corresponding recommendation ☐ Others, specify:		
Building of Structure and Improper solid waste management leading to: ☑ Impairment of visual aesthetics ☐ Devaluation of land values	Solid Waste Management Scheme in the area: ☐ SLF ☑ MRF ☑ Composting ☑ Regular Collection of Solid Wastes Presence of visually significant landforms/landscape/structures? ☐ Yes ● No	☐ Set-up temporary fence around the construction area ☑ Implement re-use and recycling of waste materials ☑ Implement proper segregation, collection and disposal of domestic wastes in designated areas ☑ Provide receptacles / bins for solid wastes ☑ Composting of Organic Wastes ☑ Coordinate with the municipal / city waste collectors ☑ Implement landscaping and other beautification measures ☐ Provide adequate buffer ☐ Compensate adjacent property owners ☑ Engage third party company for waste collection ☐ Others, specify:	☑ Daily inspection of waste handling including segregation in waste/recycling bins ☑ Weekly inspection of waste accumulation and disposal ☐ Regular inspection of landscaping and other beautification activities ☐ Regular monitoring of buffer zones ☑ Regularly monitor presence/absence of complaints from adjacent property owners ☐ Others, specify:	

Possible Environmental/ Social Impacts	Baseline Environment (at the time of expansion/modification application)	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
☐ Soil/Land contamination due to materials leakage ☐ Depletion of soil nutrient content/soil productivity/Change in acidity/alkalinity of soil	Existing soil/land type in the expansion area: ☐ sandy ☐ clay ☑ sandy-loam ☐ concrete/cement ☐ Others, specify Soil acidity/alkalinity ☐ acidic ☑ basic ☑ Conduct of soil test/analysis for the following parameters relevant to the potential source of contamination, specify: SOIL TESTING COMPLETED	☐ Secondary containment (pls specify): ☐ Others, specify:	☑ Regular inspection for leakage of materials that can cause land/soil contamination. ☑ Monitoring of soil physical and chemical properties	
WATER				
☐ Increased siltation due to project activities ☐ Water quality degradation ☐ Others, specify:	Specify nearest/receiving water body: Distance to nearest/receiving water body: ◉ 0 to less than 0.5 km ☐ 0.5 to 1 km ☐ More than 1 km Size of population using receiving surface water: ☑ ≤ 1,000 persons ☐ >1,000 and ≤ 5,000persons ☐ >5,000person	☑ Set-up proper and adequate sanitary facilities ☑ Ensure strict observance of proper waste disposal/handling and proper sanitation including by the contractor and its workers (if any) ☑ Provision of wastewater treatment facility (e.g. septic tank, oil and water separator, etc.) ☑ Set up silt trap/stilling ponds to minimize downstream siltation ☑ Provision of three-chambered septic tank for domestic sewage	Regular (ocular) inspection of: ☐ Drainage / canal systems ☐ Wastewater treatment facility (i.e., grease trap, septic tank, etc.) Regular monitoring of ambient water for the following: Parameter: ☑ pH — Frequency: ☑ Annual, ☐ Semi-annual, ☐ Quarterly Parameter: ☑ TSS — Frequency: ☐ Annual	

Possible Environmental/ Social Impacts	Baseline Environment (at the time of expansion/modification application)	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
	Classification of nearest water body : ☐ Freshwater / ☐ Marine/ coastal water ☐ AA / ☐ SA ☑ A / ☑ SB ☐ B / ☐ SC ☐ C / ☐ SD ☐ D Current Water Use: ☑ Fishery ☑ Tourist Zone / Park ☑ Recreational ☐ Industrial ☐ Agricultural ☐ Others, specify: Distance of project area to the nearest well used: ◉ 0 to less than 0.5 km ○ 0.5 to 1 km ○ More than 1 km Use of the nearest well: ☑ Drinking/Domestic ☐ Industrial ☑ Agricultural ☐ Others, specify:	☐ Provide ring canals around fuelling tanks/ motorpool/ maintenance areas ☑ Others, specify _____ INSTALL SEWERAGE TREATMENT PLAN FACILITY OR STP	☐ Semi-annual ☐ Quarterly ☑ BOD — ☑ Annual ☐ Semi-annual ☐ Quarterly ☑ Color — ☑ Annual ☐ Semi-annual ☐ Quarterly ☐ _____ — ☐ Annual ☐ Semi-annual ☐ Quarterly ☐ _____ — ☐ Annual ☐ Semi-annual ☐ Quarterly ☐ _____ — ☐ Annual ☐ Semi-annual ☐ Quarterly	

Possible Environmental/ Social Impacts	Baseline Environment (at the time of expansion/modification application)	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
☐ Competition in water use ☐ Depletion of water resources	Size of population using the source/s of water for the project: ☑ ≤ 1,000 persons ☐ >1,000 and ≤ 5,000 persons >5,000 persons Available/nearest water source. ☑ Deepwell ☑ Water district/LGU ☐ Surface water ☐ Others, specify:	☑ Implement rainwater harvesting and similar measures as an alternative source of water ☑ Observe water conservation measures; ☐ Careful selection of project site to avoid disruption of traditional water uses ☑ Obtain Water Permit from NWRB ☑ Improve efficiency of water supply and distribution system ☑ Increase storage capacities of water supply structures for resilience to greater climate variations and extremes ☐ Others, specify:	☑ Regularly monitor presence/absence of complaints ☑ Regular coordination with concerned agencies ☑ Regularly monitor occurrences of water shortages ☐ Others, specify:	
☐ Increased occurrence of flooding	Is the project site located in an area identified by MGB/PAG-ASA as flood prone? ☐ Yes ◉ No	☑ Use appropriate design for project facilities including appropriate drainage mechanism considering the existing local drainage system. ☑ Regularly remove debris and other materials that may obstruct water flow ☑ Use appropriate technology (e.g. raised hand-pumps) to protect drinking water from flood contamination ☐ Others, specify:	☑ Regularly monitor presence/absence of complaints ☑ Regular coordination with concerned agencies ☑ Regularly monitor increased frequency of flooding ☐ Others, specify:	

Possible Environmental/ Social Impacts	Baseline Environment (at the time of expansion/modification application)	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
AIR / NOISE				
☐ Impact on air quality ☐ Nuisance due to generation of obnoxious/ unpleasant odor	Distance to nearest community: ◉ 0 to less than 0.5 km ☐ 0.5 to 1 km ☐ More than 1 km Is the wind direction blowing towards the nearest community most of the year? ☐ Yes ◉ No	☑ Properly operate and maintain all emission sources (e.g. vehicles, pumps, generator, etc) ☑ Install appropriate air pollution device : ☑ Control vehicle speed to lessen suspension of road dust ☑ Conduct water spraying to suppress dust sources and minimize discomfort to nearby residents ☑ Use covered vehicles to deliver materials that may generate dust ☐ Others, specify:	☑ Regularly monitor presence/absence of complaints ☑ Regular monitoring for obnoxious odor Regular (ocular) inspection of: ☑ Absence of white or black smoke from vehicles, heavy equipment and generator Monitoring of ambient air for the following: Parameter / Frequency ☐ PM10 — ☐ Annual ☐ Semi-annual ☐ Quarterly ☐ TSP — ☐ Annual ☐ Semi-annual ☐ Quarterly ☐ NO2 — ☐ Annual ☐ Semi-annual ☐ Quarterly ☐ SO2 — ☐ Annual ☐ Semi-annual ☐ Quarterly ☐ Others: — ☐ Annual ☐ Semi-annual ☐ Quarterly	

Possible Environmental/ Social Impacts	Baseline Environment (at the time of expansion/modification application)	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
☐ Nuisance due to noise generation		☑ Properly operate and maintain all noise sources (e.g. vehicles, pumps, generator, etc) ☑ Install appropriate noise control device/s (e.g., mufflers, silencer, sound barriers, etc.) ☑ Implement appropriate operating hours ☑ Provide adequate buffer and/or planting of trees ☐ Others, specify:	☑ Regularly monitor presence/absence of complaints ☑ Regular monitoring for noise ☑ Regular monitoring of buffer zones ☐ Others, specify:	
PEOPLE				
☐ Displacement of residents including indigenous people in the project site and within its vicinity ☑ Enhanced employment and/or livelihood opportunities ☐ Reduced employment and/or livelihood opportunities ☑ Increased revenues for LGU ☐ Disruption/Competition in delivery of public services (e.g., education, peace and order, etc.)	Size of population of host barangay: ☑ ≤ 1,000 persons ☐ >1,000 and ≤ 5,000persons ☐ >5,000person ☐ Indigenous people Size : No Indigenous People living Classification of host barangay: ☐ Urban ☑ Rural Employment/Livelihood Opportunity within the host municipality ☑ High ☐ Low	☐ Provide relocation/disturbance compensation packages ☑ Prioritize local residents for employment ☑ Promptly pay local taxes and other financial obligations ☑ Regular coordination with LGU ☑ Conduct prior consultation & coordination to minimize disruption on daily domestic activities ☐ Ensure participation of IPs in consultations and dialogues & consider IP rights and cultural practices in the provision of relocation/disturbance compensation packages	☑ Regularly monitor presence/absence of complaints ☑ Regular coordination with LGU ☐ Others, specify:	

Generic Environmental Performance Report and Management Plan

Possible Environmental/ Social Impacts	Baseline Environment (at the time of expansion/modification application)	Preventive/ Mitigating Measures	Monitoring Parameters/ Implementation	Remarks
☑ Enhanced delivery of public services (e.g., education, peace and order, etc.) ☐ Increase in traffic volume and worsening of traffic flow	Description: Available services within/near the host barangay: ☑ Schools (e.g. elementary, high school, college) ☑ Health facilities (e.g., clinics, hospitals, etc.) ☑ Peace and order (e.g., police outpost, brgy. Tanod, etc.) ☑ Recreation and sports facilities Others, specify:	☑ Provide appropriate traffic/warning signs, lighting, etc ☐ Others, specify:		

III. ABANDONMENT /DECOMMISSIONING/REHABILITATION POLICIES AND GENERIC GUIDELINES (if Applicable)

Project Life or Service: _____ years

Alternatives for future use of the project area after abandonment:

The proponent does not intend to abandon the project. However maintenance and operation plans include the rehabilitation/regreening of open spaces.

Tree planting activities will be conducted at the delineated buffer areas during rainy season to ensure high survival rate as well as regular monitoring and maintenance of planted trees. Species shall be selected from those which are endemic in the area.

Abandonment Plan (general) to include management plan for the projected cumulative/long term project impacts such as:

- ☑ remediation of contaminated soil and water resources,
- ☑ land restoration
- ☑ proper dismantling/abandonment of facilities/ equipment
- ☐ others, please specify:

VI. SUMMARY OF BASELINE CHARACTERIZATION

Ecosystem	Findings
Land	As per the Land Classification, Sheridan Beach Resort and Spa is located in a disposable and alienable classification. Based on the data of the National Mapping and Resource Information Authority (NAMRIA), Alienable and Disposable (A & D) lands were estimated to comprise about 15% of the total land area of the City. Forestland or timberland, which cannot be titled, covers almost 11% of the total area of Puerto Princesa. The unclassified public forestland makes up 74% of the total land area of the City. This implies that many of the residents who are occupying lands in the City do not have titles. It is uncommon to find that A&D lands totaling to 4,643 hectares or 14% of the total A&D lands are located in slopes above 18% thereby making these lands susceptible to erosion and eventually land degradation when they are developed into agriculture or settlements. 26 barangays in the City have A&D lands above 18% in slope the barangays with the largest A&D lands located in slopes above 18% are Buenavista (38% of the total A&D lands above 18% in slope), Lucbuan (11%) and Maruyugon (8%).
	Since the project area is in the coastal zone, the vicinity are mostly beach resorts as well. It can also be seen from the Land Cover Map that the immediate marine area is not covered with corals and dense or sparse seagrass which are important indicators for the Foreshore Project suitability. The specific soil type at the project location is Tapul Clay. Land is most suitable for pasture or forest. This soil is shallow and well drained, it has high severity for erosion if cultivated. The coast is covered by beach sand.

Water	Currently the company sources its water from local water district which is piped to the resort. The water undergoes treatment to make it suitable for drinking and domestic use. The company also has deep well as back-up for months with low water supply. The current operations require 20-30 cubic meters of water per day. It is projected that the water consumption will reach 50 cubic meters per day during the operation of the additional facilities. The project location belongs to area with local and shallow aquifer. Local and shallow aquifers provide only limited quantities of water. The current operation uses a Sewage Treatment Plant to treat the wastewater. The facility will be upgraded to cater to the increase in capacity. Current effluent shows that it passes DENR-EMB standard water quality prior to discharge.
Air	Total Suspended Particles of the current development and the expansion site are less than 2□g/Ncm.
People	**Cabayugan** is a barangay in the city of Puerto Princesa. Its population as determined by the 2010 Census was 2,871. This represented 1.32% of the total population of **Puerto Princesa**.

1.0 Impacts Mitigation Summary

Project Phase/ Environmental Aspect	Environmental Component Likely to be Affected	Potential Impact	Options for Prevention or Mitigation or Enhancement
Construction Phase			
Nourishment/ Earthworks, hauling of materials, and use of various hand tools during construction	Land/People	Domestic solid waste	• Waste segregation • Maintenance of a materials recovery facility in the project site • Regular collection and disposal of solid waste • Segregation of construction debris from domestic waste
	Water	Domestic wastewater	• Use of existing toilets and septic tanks

	Air and Noise	Increase in noise level	• Preventive and regular maintenance of smoke and noise- emitting equipment • Provide enclosure of work areas
Resort Operation Phase			
Facility operation and maintenance	Water	Depletion of water sources	• Employ water conservation (reduce, reuse, recycle) program
		Underground water contamination	• No wastewater shall be disposed of in the project site without undergoing treatment.
	Land	Solid Waste; Sanitation	• Implement segregation, collection and disposal of domestic wastes in coordination with the City Solid Waste Management and Disposal Office • Provision of garbage bins for biodegradable and non-biodegradable solid waste at strategic locations within the project site and in other facilities.
	People	Employment opportunities in the resort	• Prioritize local residents
		Health and Safety	• Compliance to labor standards and regulations • Provision of necessary personal protective equipment • Provision and maintenance of first aid paraphernalia • A water quality analysis shall be regularly conducted in coordination with appropriate government agency and/or the local health authorities.
		Natural calamities, disasters, or emergencies	• Devise and implement emergency and evacuation action plan in times of natural calamities, disasters or emergencies

			• Train and assign regular staff to perform specific tasks during natural calamities, disasters, or emergencies
	Air and Noise	Ambient air quality	• Preventive and regular maintenance of generator sets.
Abandonment Phase			
	Land and improvements	Wastes, structures, and equipment	• Haul out wastes

2.0 Social Development Plan/Information, Education, Communication (IEC) Framework

The proponent shall develop a Social Corporate Responsibility Program for the community and shall ensure that local residents are prioritized for employment.

3.0 Summary of the Environmental Monitoring Plan

Emerald shall monitor the following points and shall be recorded and reported in the Self-Monitoring Report which shall be submitted to DENR-EMB IV every quarter.

Land	:	Sanitation, solid waste generation and segregation, hazardous waste Disposal
Water	:	water quality of the creek
Air	:	air quality, noise, climate change hazards
Permits	:	discharge permit, permit to operate, hazardous waste generator identification number
People	:	health, and accident

4.0 EMF and EGF Commitments

The Proponent is willing to comply with the amount as determined by DENR-EMB to finance the initial organizational activities of the Multidisciplinary Monitoring Team for the project.

VII. PROCESS TECHNOLOGY OPTIONS

The matrix below details the options considered by the management and the design team in selecting the technologies to be utilized by the project, considering the environmental effects of each of the alternatives.

Project Components	Options Considered & Reason for Selection
1. Building Design/Materials	Options considered include massive or scattered development, management decided for a combination of two storey development with some detached cottages. For the additional cottages green building materials, practices and methods were strictly adapted for this project. To be able to maximize land utilization a two-storey building is constructed. Solar technology is also used in the new development.
2. Water Use Minimization	Reuse of treated wastewater from STP for watering of plants; treatment and recycling of used waterpark water to minimize freshwater requirement. This option was chosen over discharging the treated water to the bay area.
3. Water Quality	There is no other alternative considered but to increase capacity of the existing STP. An upgrade of the sewage treatment plant capacity is being developed to ensure that all effluents are treated to pass DENR standards prior to discharge.
4. Carbon Emissions	Most of the accommodations and restaurants are open to minimize use of airconditioning and lighting.
5. Power	The electricity that is being used during the construction, demobilization and operation phases is the same throughout, is solar power which is owned by the company even before its expansion project.
6. Water	The water sources used during the construction, demobilization and operation of the company are from the Water District and from deepwell which was the same system source before its expansion.

VIII. DEVELOPMENT PLAN, PHASES & TIMEFRAMES

The land development has already commenced and is targeted to be operational by mid 2023 in time for the summer holiday.

Pre-Construction Phase	Activities	Timeframe
Procurement, award and environmental management system set- up	▪ Tendering ▪ Award of contract ▪ Environmental management plans, licenses and approvals	Done except environmental requirements that are still on-going
Site establishment	▪ Site set out ▪ Site compounds ▪ Subsidiary sites ▪ Initial environmental safeguards	
Relocation of services	▪ Identification and consultation ▪ Relocation of existing facilities	
Construction Phase	Activities	Timeframe
Site preparation	▪ Clearing and grubbing ▪ Stripping and stockpiling of topsoil, spoil and unsuitable material ▪ Construction access	Project Currently Constructed/ Implemented and on-going
Earthworks	▪ Select material zones ▪ Soil Stabilization	
Construction/Installation	▪ Delivery of Components for Installation ▪ Site Assembly/Installation	

Finishing works	▪ Remove temporary works ▪ Restore and landscape temporary sites	On-going
Operation Phase	Activities	Timeframe
Guest Accommodation	▪ Overnight Stay ▪ Dining	Projected time to be done by mid 2023
Recreation	▪ Swimming ▪ Watersports ▪ Beach games/activities	
Utilities Operation	▪ STP Operation ▪ MRF Operation	Mid 2023
Abandonment Phase	Activities	Timeframe
No plan of abandonment but already entertaining the idea of extending the business operation even after 50 years.	▪ Possibility of another expansion project of the company	Abandonment of project is only possible for manufacturing companies whose raw materials are exhaustible like mining.

IX. MANPOWER

MANPOWER LOADING	
START OF CONSTRUCTION	
Project Manager	1
Civil Engineer	1
Document Controller	1
Architect	1
Electrical Engineer	1
Mechanical Engineer	1
Surveyor	1
Surveyor Aide	1
Cad Operator	1
Warehouseman	1
Safety Officer	1
Timekeeper	1
Foreman	1
Steelmen	4
Carpenter	8
Mason	4
Welder	1
Painter	
Electrician	1
Plumber	
HVAC Techician	
Laborer	10
Truck Driver	1
TOTAL	42

MANPOWER LOADING	
CONSTRUCTION PHASE	
Project Manager	1
Civil Engineer	
Document Controller	1
Architect	
Electrical Engineer	1
Mechanical Engineer	1
Surveyor	
Surveyor Aide	
Cad Operator	
Warehouseman	1
Safety Officer	1
Timekeeper	1
Foreman	1
Steelmen	
Carpenter	
Mason	2
Welder	
Painter	5
Electrician	2
Plumber	2
HVAC Technician	2
Laborer	5
Truck Driver	1
TOTAL	**27**
OPERATION PHASE	
DEPARTMENT	**NO. OF PERSONS**
ADMIN & GENERAL MANAGER	2
FINANCE	6
PURCHASING	3
IT	1
HR	3
LOSS PREVENTION	25

SPA	7
AT YOUR SERVICE	6
FRONT OFFICE	16
TRANSPORT, RETAIL, AIRPORT	4
HOUSEKEEPING	23
LAUNDRY	6
VALET	2
PUBLIC AREAS/LANDSCAPE	6
F&B	35
BANQUETS	5
INROOM DINING	5
KITCHEN	33
STEWARDING	9
ENGINEERING	9
TOTAL	**212**

X. INDICATIVE PROJECT INVESTMENT COST = PHP 550,000,000.00

CHAPTER 2: KEY IMPACTS ANALYSIS

CHAPTER 2: KEY IMPACTS ANALYSIS

This chapter details the results from the collection, assessment and investigation of the primary and secondary data of the land, water, air and human environment within the project area including the description of the current environmental performances. The results provide information for analysis of the environmental impacts of the project.

2.0 Earth Filling Works with an area of about 5,000 square meters Within the Project Site

Methodology:

As part of their expansion program, Sheridan Beach Resort and Spa intend to construct additional buildings and facilities within the premises of their property. The said construction development will be sited on a portion of a pond that was recently earth filled for such purpose. The project earth filled is a portion of the existing water retention pond within their property. The earth filled area was approximately 5,000 square meters. The water retention pond serves as a catchment area for rainwater and runoff from agricultural areas, nearby watersheds and tributaries, and the surrounding Sabang community.

A study of the landfilled area was conducted from January 11, 2020 to January 19, 2020. Primary data were collected through site inspection, site photography and mapping (remote sensing) as well as secondary data were used to described the environment. Site and regional scale analysis form the basis of the environmental assessment and identification of the policy options/mitigating measures.

Environmental Impacts and Mitigating Measures:

Site Issues/Challenges/Environmental Impacts	Implications to the Site/ Community when not Resolved	Policy Options/Mitigating Measures
Occurrence of flooding	Damage to population, productive assets and public infrastructures Adverse effects on tourism activities	Water retention pond improvement (dredging, Landscaping, embankment, Stabilization) Waterways improvement and maintenance (removal of obstructions in waterways, manual dredging of waterways) Installation of rainwater harvesting facilities in future developments Vegetation improvement and maintenance Limit the expansion of the reclaimed area
Inadequate drainage infrastructure in Sabang proper	Occurrence of flooding	Upgrading of drainage infrastructure i.e. installation of additional pipe culverts
Soil erosion from embankment of earth filled areas	Siltation/sedimentation of pond and waterways thus decrease in Water storage and conveyance capacity	Water retention pond improvement (landscaping, embankment, stabilization)
Improper solid waste disposal In the community	Clogging of drainage system	Implementation of ecological Solid waste management
Land use conversion/ Urbanization of the area	Increase in impervious surfaces thus increase in surface runoff	Preparation of master plan Adoption of agricultural or open space zoning
Decrease in forest cover in the watershed	Increase in water runoff	Maintenance and enhancement Of efforts to reforest and protect forest areas
Loss of habitat and vegetation	Lower the species richness and abundance due to temporary displacement or complete disappearance of wildlife species	Limit the expansion of the reclaimed area Vegetation improvement and maintenance

Threats to wildlife behavior	Displacement of wildlife	Limit the expansion of the reclaimed area Vegetation improvement and maintenance Using CFL 163o areas that are not intended to be lit
		IEC on wildlife conservation and protection for workers Training on wildlife rescue and Temporary care for barangay officials, local residents, and workers

The study finds that the existing earth filling project is within a flood plain area where water from nearby watersheds and tributaries drain. The retention pond being part of the entire flood plain that cut across several private properties is therefore a flood receptor. This is supported by the findings of hydrological and topographical studies and the field inspection conducted.

While certainly the earth filling works had decrease the water storage capacity of the pond, the same should not be viewed as the principal reason for the recent flood or reason for any future flooding anywhere in Sitio Sabang. Other factors, as pointed out, contribute to flooding. Directly or indirectly, the project has varying impacts on the environment but these impacts can be mitigated.

Overall, the study establishes that the earth filling project has minimal impact and does not present any significant problems to the environment.

2.1 LAND

This section details the baseline condition of the current land environmental settings. From the development plans and the constructed developments, the environmental impacts to land use, geology, pedology and terrestrial ecology are then assessed.

Land Use & Classification

Methodology: Relevant maps were gathered to be able to analyze the land use and classification of the project location.

Baseline Profile: Sabang is a small village or sitio located on the western coast of the provincial island of Palawan, Philippines. It is within the city of Puerto Princesa belonging to Barangay Cabayugan. Sabang is commonly visited by tourists as an access point to Puerto Princesa Subterranean River National Park.

Disposable and Alienable	15%
Timberland	11%
Unclassified Public Forest	74%
Land Cover Category	Percent (Estimate as per Map)
Built-Up	17%
Agricultural	10%
Forest	73%

As per the Land Cover Map, Sheridan Beach Resort and Spa is located in a disposal and alienable classification.

Since the project area is in the coastal zone, the vicinity are mostly beach resorts as well. It can also be seen from the Land Cover Map that the immediate marine area is not covered with corals and dense or sparse seagrass which are important indicators for the Foreshore Project suitability

SUMMARY OF BASELINE CHARACTERIZATION, KEY ENVIRONMENTAL IMPACTS, MANAGEMENT & MONITORING PLAN AND EMF & EGF COMMITMENTS

Impact Assessment: The impacts to land use of the existing and additional facilities are evaluated. Below summarizes the impact analysis:

A. PERFORMANCE OF EXISTING DEVELOPMENT	
CONSIDERATIONS	IMPACTS
Change in Land use/ inconsistency in Land Classification	▪ There were no changes to land use or inconsistency to land use during the implementation of the existing resort project. The vicinity is a coastal area with other resorts in place.
Encroachment to Environmentally Critical Areas (ECA)	The existing project do not encroach to environmentally critical area. A stormwater runoff passes the resort and a concrete basin was built to ensure proper and unobstructed flow of water to the sea.
Possible land issue	▪ No land issues were raised during the project implementation.
ADDITIONAL FACILITIES	
Change in Land use/ inconsistency in Land Classification	▪ The additional facilities are basically ancilliary to the existing resort operations which are not foreseen to change the land use and classification of the area.
Encroachment to Environmentally Critical Areas (ECA)	▪ The additional facilities do not encroach to the bay area which is the nearest envrionmentally critical area.
Possible land issue	▪ There are no projected land issues to be raised for the project.

2.1.1 Geology & Geomorphology

Methodology: Relevant maps were gathered to be able to analyze the geological characteristics of the project location.

Baseline Profile: In the southern portion particularly in the Irawan area, metamorphic rocks of the Inagawan Formation can be found. The area is also partly composed of sedimentary Iwahig Formation, alluvium of unconsolidated gravel, sand, pebbles and silt. Some ultramafic rocks of the Palawan Ophiolite Complex also characterize the area.

The northern part of the City is comprised of ultramafic rocks. In particular, the Langogan area is characterized by metamorphic rocks consisting of quartz-feldspathic and mica schists, phyllites, slate and quartzites. The ultramafic rocks consist of unaltered sepertenized pridotite, dunite and pyrexomite.

Babuyan area is made up of Irahuan Metavolcanics which resemble the quartz-hematite schist in appearance and are also friable and weather into dark reddish gray platy fragments which are usually scattered near outcrops of river beds. St. Paul limestone outcrops as small patches are found in the south and midwestern part of the catchment. It is comprised of a very thick, massive, marbleized limestone with very well developed karst.

The Puerto Princesa Subterranean River National Park has karsts limestone formation and is popular tourist destination among local and international tourists. The underground river is about 8.2 kilometers in length and has been proclaimed under Proclamation No. 212 as a National Park. The park covers a protected area of 22,202 hectares. It is also included in the list of World Heritage Sites by UNESCO because of its diverse ecosystem and the presence of rare flora and fauna. The site, which is located in Sabang, Barangay Cabayugan has also fine white beaches.

Impact Assessment: The impacts to land use of the existing and additional facilities both land-based and foreshore are evaluated. Below summarizes the impact analysis:

A. PERFORMANCE OF EXISTING DEVELOPMENT	
CONSIDERATIONS	IMPACTS
Change in surface landform	▪ Project site is on flat terrain, no cut and fill of land performed; No change in surface landform was observed due to existing project implementation
Change in sub-surface / underground geomorphology	▪ Project is non-extractive in nature; No change to subsurface or underground morphology observed due to existing project implementation
Inducement of subsidence or collapse	▪ No instance of subsidence or collapse observed or foreseen due to project implementation, infrastructures are scattered and with a maximum of two storey.
ADDITIONAL FACILITIES	
Change in surface landform	▪ Project site is on flat terrain, no cut and fill of land performed; No change is surface landform is observed due to project construction
Change in sub-surface/ underground geomorphology	▪ Project is non-extractive in nature; No change to subsurface or underground morphology observed due to project construction.
Inducement of subsidence or collapse	▪ The project is mostly building of maximum 3-storeys; No instance of subsidence or collapse observed during construction none foreseen due to project implementation.

2.1.2 Pedology

Methodology: Relevant maps were obtained and used as reference to determine the soil classification and features at the project location.

Baseline Profile: In terms of soil types, there are nine kinds found distributed in the city: Bolinao Clay, Tagburos Clay, Tapul Clay Loam, Guimbalaon Clay, Bay Clay Loam, Babuyan Silt Clay Loam, Babuyan Clay, Malaglag Clay, and Hydrosol. The specific soil type at the project location is Tapul Clay. Land is most suitable for pasture or forest. This soil is shallow and well drained, it has high severity for erosion if cultivated The coast is covered by beach sand

Since the project is not resource extractive, there has been no removal of topsoil in the project location. Since the location is also under flat terrain there has been no observed soil erosion. The creek banks were concreted in order to prevent erosion due to the stormwater runoff traversing the area.

Impact Assessment: The impacts to land use of the existing and additional facilities both land-based and foreshore are evaluated. Below summarizes the impact analysis:

A. PERFORMANCE OF EXISTING DEVELOPMENT	
CONSIDERATIONS	IMPACTS
Soil Erosion/Bank Stability	▪ In order to prevent soil erosion, the stormwater runoff from the mountains/elevated road is contained and directed to proper discharge point by concreting the drainage and putting pipes to the shore.
Loss of topsoil/ Soil fertility	▪ No observed loss in top soil during the implementation of the project; mango trees are maintained as part of the natural ambiance of the resort maintaining soil fertility.
Soil Contamination	▪ If not properly disposed, the hazardous wastes may contaminate the soil in the project area. The company has complied with the DENR Hazardous Waste Generator requirements for handling used oil and hazardous items such as flourescents, etc.
ADDITIONAL FACILITIES	
Soil Erosion/Bank Stability	▪ Prolonged exposure of bare surfaces to wind and rain may exacerbate soil erosion. If not properly controlled during construction, soil erosion from the construction site may potentially contribute to the sedimentation/siltation during periods of heavy rains. Drainage is currently in place and controls must be agreed with the contractor during construction period.
Loss of topsoil/Soil fertility	▪ Loss of topsoil/soil fertility is not expected to occur as the area will not be utilized for agricultural production.
Soil Contamination	▪ A site has been identified to store hazardous wastes in the expansion site has already been identified. Spill Response Plan has to be updated to include the new developments.

2.1.3 Terrestrial Ecology

2.1.3.1 Terrestrial Fauna

Methodology: A survey of the terrestrial flora and fauna was conducted on January 26, 2016. Tree species were identified, the presence of rare and endemic plants was determined, and an indication of biodiversity at the site was obtained from the two sites identified. Each site was divided into two (2) imaginary transect lines using random sampling. Wildlife signs such as calls, footprints, crawl marks, scratching, digging, burrows, nest, roosting sites, and fecal dropping were also noted. Some

gathered were from the interview of resident staff. See Annex 2.1.4.A Detailed Terrestrial Fauna Assessment Report.

Baseline Profile: The proposed development site is located next to the existing Sheridan Beach Resort and Spa resort. The area is located Sitio Sabang, Cabayugan, Puerto Princesa City, Palawan. Site I runs through the right wing of the resort. Wildlife habitabt is composed of fruit bearing trees such as mango*"Mangifera altissima"*, cashew*"Anacardium occidentale"*, santol*"Sandoricum koetjape"*, and sampaloc "*Tamarindus indica"*. Mangoes were dominated the area and followed by trees like talisay*"Terminalia catappa"* and banni *"Prosopis cineraria"*. Undergrowth grasses like cogon "*Imperata cylindrica"* and ipil-ipil *"Leucaena leucocephala"* were also observed near the entrance gate of the resort. Site II is in the expansion area located at the left wing of the resort. On-going construction is observed. The expansion area is considered to be disturbed due to the on-going operation. Trees like dapdap "*Erythrina orientals"*, Talisay *"Terminalia catappa"* and bangkal*"Nauclea orientalis"* were found. Diverse undergrowth species like pitogo "*Cycasrumphii cycadaceae"*, hagonoy "*Chromolaena odorata"*, cogon grass "*Imperata cylindrica"* and a pandan *"Pandans tectorius"* is also noted. It is a flat terrain and offered a diverse species of grass and shrubs that serves as habitat of different insects which attract insectivorous birds. Mango orchard is in this location.

Below are the results of the faunal assessment:

A. Wildlife Profile		
Species	Common Name	Distributional Status
CLASS: REPTILIA 1. Gekko gecko 2. Varanus salvator 3. Natrix natrix 4. Naja sumatra	 Tokay gecko Monitor Lizard Grass Snake Malay Common Cobra	 Resident Endemic Resident Resident
CLASS: AMPHIBIA 5. Staurois natator 6. Polypedates leucomystax	 Rock Frog Common Tree Frog	 Resident Resident
CLASS: MAMMALIA 7. Cynopterus brachyotis 8. Sundasciurus steerii 9. Mydaus marchei	 Short-Nosed Fruit Bat Tree Squirrel Palawan Stink Badger	 Endemic Resident Endemic
CLASS: AVES 10. Tyto capensis 11. Aplonis panayensis 12. Anthreptes malacensi 13. Egretta garzetta 14. Egretta sacra 15. Corvus enca 16. Locustella lanceolata	 Grass Owl Philippine Glossy Starling Plain-Throated Sunbird Litt Egret Reef Egret Little Crow Streaked Grasshopper Warbler	 Resident Resident Resident Resident Resident Resident Resident

B. Feeding Habit						
Food Habits	Amphibians	Reptiles	Birds	Mammals	Total	Percentage

2						
1. Insectivores	2 0	2 2	7 0	0 0	1 1 2	68.75% 12.50%
. Carnivores						
3. Omnivores	0	0	0	2	2	12.50%
4. Fructivores	0	0	0	1	1	6.25 %
TOTAL	2	4	7	3	1 6	100%

C. Conservation Status

Wildlife Group	Threatened				Common	Total
	Critically Endangered	Endangered	Near Threatened	Vulnerable		
1. Amphibia	0	0	0	0	2	2
2. Aves	0	0	0	0	7	7
3. Mammalia	0	0	1	0	2	3
4. Reptilia	0	0	0	1	3	4
TOTAL	0	0	1	1	14	16

Based on the assessment conducted, most of the birds observed were insectivorous species and they were mainly attracted to the mosquitoes and other insects roaming around. Birds like Little Egret (*Egretta garzeta*) and Reef Egret (*Egretta sacra)*are seen capturing insects and fishes. Lizards like Tokay Gecko *(Gekko gecko)* were also common in trees along the area. Foul smell from Palawan Stink Badger (*Mydaus machei)* was also encountered. Domesticated animals like dogs and cats commonly roaming around the vicinity to get food for their survival. Based on the interviews from the resident staff of Sheridan Beach Resort and Spa, Grass Snake *(Natrix natrix)* and Short-Nosed Fruit Batwere also witnessed but it varies in season. Commonly number of bats was observed during mango season. Monitor Lizard "*Varanus salvator"* was also observed way back 2014 but as time goes by they started to lessen due to brushing and clearing activities in the area.

Majority of the species are insectivores (11 species), having 68.75% of total species. The next larger group Carnivores and Omnivores (2 species) having 12.50%, and lastly, Fructivores was represented by 1 species which comprises of 6.25% of the total population. With insectivores comprising almost 70% of the species composition, this indicates that the area was dominated by wildlife species that are insect dependent. Other species with specialized feeding behavior is the first to go in a deteriorating habitat. Insects being present in any habitat types are still able to support insect-eating species of wildlife. This is the present condition of the project site.

The present wildlife species included a total of 16 species; consisting of 4 species of reptiles, 7 species of birds, 3 species of mammals and 2 species of Amphibians. This includes 13 resident wildlife and 3 endemic species of wildlife for the island of Palawan. The list of endemic species however does not include endangered species of Palawan such as Philippine Cockatoo "C*acatua haematuropygia"* "Flycatcher "*Ficedula platenae"*, Calamian Deer "*Axis calamianensis"*, Scaly-Anteater "*Manis javanica culionensis"* and Palawan Hornbill "*Anthracoceros marchei"*. This means that the area was incapable of supporting certain endemic/endangered species. This wildlife species however was included in the DENR-PENRO lists.

Impact Assessment: The impacts to wildlife of the existing and additional facilities both land-based and foreshore are evaluated at the different stages of the project. Below summarizes the impact analysis:

A. PERFORMANCE OF EXISTING DEVELOPMENT	
CONSIDERATIONS	IMPACTS
Threat to existence and loss of important local species	▪ There are some species that were observed by the staff in the previous years that have not been seen recently which could indicate that the habitat had been disturbed
Threat to abundance, frequency and distribution of important species	▪ The operation of the resort is eco-friendly, vegetations were maintained and no excessive noise is being generated by the operation, operations has very minimal effect to wildlife abundance, frequency and distribution
Hindrance to wildlife accessspecies	▪ Natural vegetation is maintained, no to very minimal impact to wildlife access
ADDITIONAL FACILITIES	
Threat to existence and loss of important local species	▪ Wildlife habitat has been disturbed when some mango trees were relocated for the development. This disturbance is temporary during construction phase.
Threat to abundance, frequency and distribution of important species	▪ The project area is beside the road and with previous resort development, the development will not result to relocation of some species resulting to changes in abundance and frequency of wildlife.
Hindrance to wildlife access species	▪ The big waterpark may affect crawling species access vegetation in other portions of the project are not removed in order to provide access to wildlife

2.1.3.2 Terrestrial Flora

Methodology: A survey of terrestrial flora species in the beach forest within the property of Sheridan Beach Resort and Spa has been carried out. Statistically, it is appropriate to conduct 100% survey and measurements must account all trees having diameter larger than 5 centimeters at breast height. All tree species were identified; density and basal area of all trees was estimated; dbh and height were measured. This allows for the computation of the Importance Value of species present in the area. To determine the level of species diversity in the project site, Shannon-Weiner Diversity index (H) and Pielou's Evenness index (J) were computed for the canopy, and intermediate Layers. Listing of known species was done for the undergrowth.

Baseline Profile: The area surveyed is located between $10^0$11'40" North and $118^0$53'42" East with average elevation of 94 meters above sea level. This type of forest was once covered the sandy beaches above high tide level. The area has been replaced by different plant species including fruit trees, ornamental plants and exotic/introduced. In addition, most of the native plants in the vicinity of the beach areas are also lost by conversion to tourist attractions and tourist residences, that is, resorts. Many species of this forest type have fruits and seeds adapted for water (i.e. Botong *(Barringtonia asiatica)*, Bitaog *(Calophyllum inophyllum)*, Talisai *(Terminalia catappa)*, Niyog *(Cocos nucifera)* or wind dispersal (i.e., Agoho *(Casuarina equiseti*

The original plant community in the proposed project has been substituted by various tree species including fruit-bearing and ornamental trees. Being privately owned, various development activities such as settlement and cultivation have been introduced thereby altering the overall landscape and changing the composition and ecological functions of the plant communities in the beach forest. Plant identification and measurement started from Site 1 where various resort structures, facilities and amenities have been built. Progressing from the east going west where construction of waterpark which will include water geysers, water canons, spray water, wave pools, slides, a fishpond and rock-climbing wall has already started, plants in the canopy layer and undergrowth were recorded using standard

methods.Result of the survey in the beach vegetation of the Site 1 of the Sheridan Beach Resort and Spa indicate that the site is dominated by *Leucaena leucocephala*, *Pongamia pinnata,* and *Terminalia catappa.*These species are the most important species based on relative density, relative basal area, and importance value. The presence of *Terminalia catappa* indicates that the area is originally beach type forest.The beach forest has been subjected to intensive cultivation and other development activities in previous years. The early settlers have planted fruit-bearing trees for their livelihood. There are sixty-four (64) fruit-bearing trees counted and measured in Site 1. The most common among the fruit trees is Mango *(Mangifera indica)* with 56 individuals. The diameter and height of Mango trees ranges from 5 to 30cm and 3 to 10m respectively.

Based on the site development plan of the Sheridan Beach Resort and Spa, Site 2 isdesignated for the future expansion area of the resort. It is located adjacent to Site 1 along the North National Road. The composition of the flora including the undergrowth in this area is closely associated with Site 1. Table 4 shows the floral composition of the trees in the canopy layer in this site. The three most important species based on relative density, relative basal area and importance value were *Terminalia catappa*(IV=113.64)*, Pongamia pinnata*(IV=42.29), and *Gliricidia sepium* (IV=12.92).

None of the 391 species recorded was identified either as critically endangered or endangered under the list of DAO 2007-01. The list of tree species with their corresponding values is presented below:

A. Site 1 tree species in canopy layer with corresponding values						
Common Name	Scientific Name	Density	Relative Density	Basal Area	Relative Basal Area	Importance Value
Anonang	*Cordia dichotoma*	1	0.980	0.045	0.893	1.87
Bangkal	*Anthocephalus cadamba*	1	0.980	0.108	2.123	3.10
Bani	*Pongamia pinnata*	12	11.765	1.286	25.393	37.16
Bogo	*Garuga floribunda*	4	3.922	0.733	14.474	18.40
Dapdap	*Erythrina orientalis*	2	1.961	0.19	3.729	5.69
Duhat	*Syzygium cumini*	2	1.961	0.073	1.434	3.40
Fire tree	*Delonix regia*	1	0.980	0.126	2.481	3.46
Ipil ipil	*Leucaena leucocephala*	38	37.255	0.290	5.723	42.98
Japanese acacia	*Acacia auriculiformis*	2	1.961	0.087	1.713	3.67
Madre de cacao	*Gliricidia sepium*	4	3.922	0.077	1.527	5.45

Malunggai	*Moringa oleifera*	1	0.980	0.018	0.349	1.33
Palawan cherry	*Prunus junghuhnianus*	11	10.784	0.126	2.478	13.26
Siar	*Peltophorum pterocarpum*	4	3.922	0.685	13.529	17.45
Talisai	*Terminalia catappa*	12	11.765	0.724	14.294	26.06
Taluto	*Pterocymbium tinctorium*	2	1.961	0.233	4.604	6.56
Yemane	*Gmelina arborea*	5	4.902	0.266	5.257	10.16
Total		102				

B. Site 2 tree species in canopy layer with corresponding values

Common Name	Scientific Name	Density	Relative Density	Basal Area	Relative Basal Area	Importance Value
Ipil ipil	*Leucaena leucocephala*	1	5.556	0.045	3.071	8.63
Talisai	*Terminalia catappa*	10	55.556	0.856	58.088	113.64
Bani	*Pongamia pinnata*	3	16.667	0.377	25.620	42.29
Dita	*Alstonia scholaris*	1	5.556	0.066	4.484	10.04
African tulip	*Spathodea Campanulata*	1	5.556	0.102	6.910	12.47
Madre de cacao	*Gliricidia sepium*	2	11.111	0.027	1.813	12.92
Total		18				

C. Endemicity and conservation status of flora species recorded in the resort area

Common Name	**Scientific Name**	**Family Name**	**Habit**	**Endemicity**
African tulip	*Spathodea Campanulata*	Bignoniaceae	Large Tree	Introduced
Anonang	*Cordia dichotoma*	Ehretiaceae	Medium Tree	Native
Avocado	*Persea americana*	Lauraceae	Large Tree	Native
Balitantan	*Buchanania nitida*	Anacardiaceae	Medium Tree	Native
Bangkal	*Anthocephalus cadamba*	Rubiaceae	Medium Tree	Native
Bani	*Pongamia pinnata*	Fabaceae	Large Tree	Native
Bogo	*Garuga floribunda*	Burseraceae	Medium Tree	Native
Cashew	*Anacardium occidentale*	Anacardiaceae	Small Tree	Native
Chinese bamboo	*Bambusa spp.*	Graminae	Tallest grass	Introduced
Coconut	*Cocus nucifera*	Palmae	Medium Palm	Native
Cogon	*Imperata cylindrica*	Graminae	Grass/Sedge	Native
Dapdap	*Erythrina orientalis*	Fabaceae	Medium Tree	Native
Dita	*Alstonia scholaris*	Apocynaceae	Large Tree	Native
Duhat	*Syzygium cumini*	Myrtaceae	Medium Tree	Native
Fire tree	*Delonix regia*	Caesalpiniaceae	Medium Tree	Introduced
Hagonoy	*Chromolaena odorata*	Compositae	Shrub	Native
Ipil ipil	*Leucaena leucocephala*	Mimosaceae	Medium Tree	Introduced
Japanese acacia	*Acacia auriculiformis*	Mimosaceae	Medium Tree	Introduced
Lambayong	*Ipomea pes-capre*	Convolvulaceae	Shrub	Native

Langka	*Artocarpus heterophyllus*	Moraceae	Medium Tree	Native
Lemon grass	*Cymbopogon flexuosus*	Graminae	Grass	Native
Madre de cacao	*Gliricidia sepium*	Fabaceae	Small Tree	Native
Malunggai	*Moringa oleifera*	Moringaceae	Small Tree	Native
Mango	*Mangifera indica*	Anacardiaceae	Large Tree	Native
Manila palm	*Veithchia merrillii*	Palmae	Small Palm	Native
Pakpak-lawin	*Asplenium nidus*	Aspleniaceae	Fern/Epiphyte	Native
Palawan cherry	*Prunus junghuhnianus*	Amygdalaceae	Medium Tree	Native
Pandan	*Pandanus spp.*	Pandanaceae	Palm-like	Native
Papaya	*Carica papaya*	Caricaceae	Fruit-bearing	Native
Pitogo	*Cycas rumphii*	Cycadaceae	Ornamental	Introduced
Santol	*Sandoricum koetjape*	Meliaceae	Medium Tree	Native
Siar	*Peltophorum pterocarpum*	Caesalpiniaceae	Medium Tree	Native
Star apple	*Chrysophyllum cainito*	Sapotaceae	Medium Tree	Native
Talisai	*Terminalia catappa*	Combretaceae	Medium Tree	Native
Taluto	*Pterocymbium tinctorium*	Sterculiaceae	Large Tree	Native
Tamarind	*Tamarindus indica*	Caesalpiniaceae	Medium Tree	Native
Yemane	*Gmelina arborea*	Verbenaceae	Medium Tree	Introduced

Impact Assessment: The impacts to vegetation of the existing and additional facilities both land-based and foreshore are evaluated at the different stages of the project. Below is the impact analysis:

A. PERFORMANCE OF EXISTING DEVELOPMENT	
CONSIDERATIONS	IMPACTS
Threat to existence and loss of important local species	▪ There were no endangered or near-endangered species in the project site. No impact to loss of important local species were observed due to project implementation.
Threat to abundance, frequency and distribution of important local species	▪ No known source for threat to abundance, frequency and distribution of important local species
Hindrance to wildlife accessspecies	▪ The operation is in a natural setting with vegetations, no known source for hindrance of wildlife access
ADDITIONAL FACILITIES	
Threat to existenc and loss of important local species	▪ Some mango trees were transfered to another location in the area. There are no endangered or endangered species in the project site.
Threat to abundance, frequency and distribution of important	▪ No known source for threat to abundance, frequency and distribution of important local species

Hindrance to wildlife accessspecies	▪ The operation is in a natural setting with vegetations, no known source for hindrance of wildlife access

2.2 WATER

This section details the baseline condition of the current water environmental settings. From the development plans and the constructed developments, the environmental impacts to hydrology, water quality, oceanography and marine ecology were assessed.

2.2.1 Hydrology/Hydrogeology

Methodology:
Relevant maps were obtained and used as reference to determine the hydrology and hydrogeology features of the project location.

Baseline Profile:
Currently the company sources its water from local water district which is piped to the resort. The water undergoes treatment to make it suitable for drinking and domestic use. The company also has deep well as back-up for months with low water supply from the spring. The current operations require 20-30 cubic meters of water per day. It is projected that the water consumption will reach 50 cubic meters per day during the operation of the additional facilities.The project location belongs to area with local and shallow aquifer. Local and shallow aquifers provide only limited quantities of water. As per the map groundwater recharge rate is 100-300 millimeters per acre. Groundwater recharge is an important part of the hydrologic cycle, in which water from the surface works its way into the subsurface, replenishing groundwater supplies.

There is no river near the area as per the Water Body Map. Although there is currently a storm water drainage in the site traversing the national highway to the bay. Currently the resort concreted the drainage to prevent erosion.
With the projected increase in water consumption, it is expected that the volumetric flow of the wastewater effluent will also increase. Water reuse or recycling has to be implemented in the facility. Drainage has to be properly installed to prevent overflows and to ensure that final effluent will pass the Sewage Treatment Plant prior to discharge.

Impact Assessment: The impacts to hydrology of the existing and additional facilities both land-based and foreshore are evaluated at the different stages of the project. Below is the impact analysis:

A. PERFORMANCE OF EXISTING DEVELOPMENT	
CONSIDERATIONS	IMPACTS
Change in drainage morphology	▪ No change in drainage morphology due to operations, runoff drain/creek except that it was concreted by the company to prevent erosion
Inducement of flooding	▪ The cause of the problem of flooding in the area of Sitio Sabang lately, was already identified by the Barangay Captain of Cabayugan and by the concerned government agency like the DPWH. It was the construction of the ACCESS ROAD from the Highway to DALUYON BEACH AND MOUNTAIN RESOSRT with only 2 small culverts of 600 mm diameter size being installed as a provision for the passage of rainwater runoff upstream. ▪ This problem was thoroughly discussed during the Public Scoping and in the Public Scoping Report submitted to EMB4B-MIMAROPA. ▪ The solution of this problem solely falls in the hand of the government. However, JECO Development Corporation has offered to help the government by providing culverts, sand and gravel, and cement materials free of charge. ▪ No flooding occured in the area before the ACCESS ROAD going to DALUYON BEACH AND MOUNTAIN RESORT was constructed .

Change in volumetric Flow	▪ No change in volumetric flow in the creek due to the existing operations
Change in streamwater depth	▪ No change since most of the water is surface runoff
Competition for water resources	▪ Operations do not compete with the community on water resource since it developed its own surface water treatment
ADDITIONAL FACILITIES	
Change in drainage morphology	▪ Except for the new additional sewerage lines from the new developments, it is not expected to change the drainage morphology
Inducement of flooding	▪ The outfall of the stormwater is direct to the bay area, development is not expected to induce flooding in the area
Change in volumetric Flow	▪ It is expected that the volumetric flow of wastewater in the drainage/creek will not significantly increase due to the projected development since wastewater will be reused for watering of plants
Change is streamwater depth	▪ There is no stream in the project site; the creek is concreted in order not to change the dimensions
Competition for water resources	▪ There is projected increase in water utilization demand; however the operations constructed its own water source using surface water treatment in order not to compete with the community on water supply

2.2.2 Oceanography

Methodology: Observations and relevant maps for bathymetry, currents, wind pattern and temperature, atmospheric pressure and tidal fluctuations were compiled in order to determine the possible impacts of the development to the waterbody.

Baseline Profile: The bathymetrical analysis of the foreshore area shows that water level in the shore of the development is about one (1) fathom or about six (6) feet or 1.5 meters.

Impact Assessment: The impacts to hydrology of the existing and additional facilities both land-based and foreshore are evaluated at the different stages of the project. Below is the impact analysis:

A. PERFORMANCE OF EXISTING DEVELOPMENT	
CONSIDERATIONS	IMPACTS
Change/disruption in circulation pattern	▪ No effects to circulation pattern due to the onshore developments
Change in bathymetry	▪ No effects to bathemtry due to the onshore developments
Increased sediment concentration at coastal vicinity	▪ No effects to sedimentation due to the onshore developments

ADDITIONAL FACILITIES	
Change/disruption in circulation pattern	▪ No effects to circulation pattern due to the onshore developments
Change in bathymetry	▪ No effects to bathemtry due to the onshore developments
Increased sediment concentration at coastal vicinity	▪ No effects to sedimentation due to the onshore developments

2.2.3 Water Quality

Methodology: Water sample from the coastal area fronting the resort was taken using grab sampling and was sent to a laboratory for analysis. Following parameters were analyzed. Salinity, turbidity and dissolved oxygen.

Baseline Profile: Salinity is a dynamic indicator of the nature of the exchange system. The salinity of the water within the estuary tells us how much fresh water has mixed with sea water. Salinity is an important determinant of the mixing regime - because of the density variation associated with salinity variation, salinity stratification tends to inhibit vertical mixing in an estuary; which can have important implications for dissolved oxygen concentrations. The usual salinity in the country is about 35 parts per thousands. However, the salinity at the beachfront has lesser salt at 31.8 parts per thousand. An inference can be made that this could be due to the stormwater pipe outfall mixing with the saltwater. Salinity is important in particular as it affects dissolved oxygen solubility. The higher the salinity level, the lower the dissolved oxygen concentration. Oxygen is about 20% less soluble in seawater than in freshwater at the same temperature. This means that, on average, seawater has a lower dissolved oxygen concentration than freshwater sources.

Dissolved oxygen refers to the level of free, non-compound oxygen present in water or other liquids. It is an important parameter in assessing water quality because of its influence on the organisms living within a body of water. A dissolved oxygen level that is too high or too low can harm aquatic life and affect water quality. The required dissolved oxygen concentation in saltwater is at minimum of 5 mg/liter. The dissolved oxygen at project site beachfront is at 7.48 mg/liter. It can be inferred that the water has a good quality, no major decomposing pollutants are being discharged in the sea. This is also a good indicator of the effectiveness of the resort's current Sewage Treatment Plant.

The current operation uses a Sewage Treatment Plant to treat the wastewater. The facility will be upgraded to cater to the increase in capacity. Current effluent shows that it passes DENR-EMB standard water quality prior to discharge.

Impact Assessment: The impacts to water quality of the existing and additional facilities both land-based and foreshore are evaluated at the different stages of the project. Below is the impact analysis:

A. PERFORMANCE OF EXISTING DEVELOPMENT	
CONSIDERATIONS	IMPACTS
Degradation of groundwater quality	▪ There is no wastewater effluent being discharged to ground, it is discharged to the bay together with the surface runoff.
Degradation of surface water quality	▪ The effluent quality of the wastewater pass DENR-EMB standard, it is not expected to have a signifiant impact to the surface water quality.
ADDITIONAL FACILITIES	
Degradation of groundwater quality	▪ Wastewater will not be discharged to ground, it will be discharged to the bay together with the surface runoff after treatment.

Degradation of surface water quality	▪ Wastewater treatment plant capacity will be increased to cater to the new developments. It is not expected to have a signifiant impact to the surface water quality after treatment.

2.2.4 Fresh Water Ecology

Methodology: The current creek traversing the resort to the shore was inspected visually to determine the ecosystem in the area.

Baseline Profile: The creek is basically a passage way for the surface runoff from the uplands and highway to the shore. There is no observed active water ecosystem in the creek, water is only present during rains. See Appendix 2.2.4 Creek Design & Photos.

Impact Assessment: The impacts to freshwater ecology of the existing and additional facilities both land-based and foreshore are evaluated at the different stages of the project. Below is the impact analysis:

A. PERFORMANCE OF EXISTING DEVELOPMENT	
CONSIDERATIONS	IMPACTS
Threat to existence and loss of important local species	▪ No freshwater fish or species found in the the creek.
Threat to abundance, frequency and distribution of important species	▪ There were no significant freshwater fish or animals observed that will be disturbed
ADDITIONAL FACILITIES	
Threat to existence and loss of important local species	▪ No freshwater fish or species found in the the creek.
Threat to abundance, frequency and distribution of important species	▪ There were no significant freshwater fish or animals observed that will be disturbed

2.2.5 Marine Ecology

Methodology: Site evaluation was conducted to determine the marine ecology in the proposed for shore development site.

Baseline Profile: As per site inspection, within the 100 meters from the shoreline has patches of seagrasses. Since the site is without water during lowtide, no fishes stay in the area as it goes with the tide. The core zone area is outside the proposed foreshore development zone. See Appendix 2.2.5 Foreshore Marine Ecology

Impact Assessment: The impacts to marine ecology of the existing and additional facilities both land-based and foreshore are evaluated at the different stages of the project. Below is the impact analysis:

A. PERFORMANCE OF EXISTING DEVELOPMENT	
CONSIDERATIONS	IMPACTS
Threat to existence and/or loss of important marine species	▪ No observed impact to marine ecology due to the existing development
Change in community structure of the marine environment	▪ No observed impact to community structure of marine ecology due to the existing development
B. LAND-BASED PROJECT	
Threat to existence and/or loss of important marine species	▪ No observed and foreseen impact to marine ecology due to the constucted additional development
Change in community structure of the marine environment	▪ No observed and foreseen impact to community structure of marine ecology due to the existing development

2.3 AIR

This section details the baseline condition of the current land environmental settings. From the development plans and the constructed developments the environmental impacts to land use, geology, pedoogy and terrestrial ecology are then assessed.

2.3.1 Climatology

Methodology: Relevant information, maps and meteorological and climate data were gathered for analysis.

Baseline Profile: Climate – Puerto Princesa City has two prevailing type of climate. The type that prevails in the west coast has two distinct seasons: six months dry (November-April), and six months wet (May-October) with the heaviest recorded rainfall in September, while the lowest or driest month occurs in February. The type prevailing in the east coast has short dry season with varying heavy rainfall months.

2.3.1.A – Climate Graph Puerto Princesa City

Greenhouse Gases –The current operations is calculated to produce 834 tonsof CO_2 per year. With the new development, it is expected that the tons of CO_2 per year will increase. Construction phase also Dry months have been recorded during the months of January to April. Recorded rainiest month is September.

Rainfall/Precipitation- Puerto Princesa has an average of 1607 mm of rainfall per year, or 133.9 mm per month. On average there are 134 days per year with more than 0.1 mm of rainfall (precipitation) or 11.2 days with a quantity of rain per month. The driest weather is in February when an average of 28 mm of rainfall (precipitation) occurs. The wettest weather is in September when an average of 221 mm of rainfall (precipitation) occurs.

Temperature - The annual average temperature in Puerto Princesa, Palawan, Philippines is hot at 27.4 degrees Celsius. However, there is no marked difference in temperature between areas falling under the first and second type of climate. The variation of mean monthly temperatures is 2°C which is an extremely low range. The average daily temperature range/ variation is 9.8 °C. Generally the warmest months are March, April and May, the coolest are November, December, January, and February. The hottest month April is very hot with a mean temperature of 29 degrees Celsius. January is the coldest month with a mean temperature of 27 degrees Celsius.

Humidity - The average annual relative humidity is 68.9% and average monthl relative humidity ranges from 62% in March to 73% in October. Puerto Princesa City has more or less uniform as well as high relative humidity. The range is from 79 to 86 percent with an annual mean of 84 percent.

Wind– Puerto Princesa City has two distinct prevailing winds, the northeast (NE) monsoon and the southwest (SW) monsoon. The northeast monsoon generally sets in October and continues until April. The monsoon blows mainly between north and northeast with a tendency towards an easterly direction at the end of the season. It has a velocity ranging from 15 to 25 kilometers per hour at its height and an average of 6 kilometers per hour. Rain clouds during the NE monsoon practically lose all the moisture before reaching the southwest part of the archipelago, thus the City and the province as a whole receive no rainfall towards the end of the northeast monsoon (January-April). The southwest (SW) monsoon or the summer monsoon follows the NE monsoon after a transition period of variable winds and calms. The SW monsoon prevails from June to October. It blows most steadily during July and August although not as steady as the NE monsoon, reaching a maximum velocity of about 35 kilometers per hour. In October or during the close of the SW monsoon, strong winds occur in the southern part of the city. The southwest winds bring torrential rains but with uneven distribution. The NE and SW monsoons affect the eastern and western part of the City. When these winds blow, the seas are very rough. The calm months of the year are from April through June on both the eastern and western side of the City. See Appendix contributes to the emission.

I Construction Phase	Calculation Assumptions	Carbon Conversion Factors	Tons CO_2 Per Annum	Conversion Factor Source
Building Construction of Additional Facilities	720 days	0.6 kgCO_2 per day	0.432	http://www.co2list.org
II Operation Phase				
Hotel & Restaurant Operation	360 days operation per year	0.5 kgCO_2 per day	0.180	http://www.co2list.org
Transportation	1Company Van; 1 round trip Airport daily = 124km/day	0.5 kgCO_2 per km	22.32	www.carbontrust.com
Electricity Consumption	2450 kWH daily = 882,000 kW per annum	0.689 kg CO_2 / kWh	607.698	www.epa.gov
Generator Fuel Consumption	344kVA=275.2 kW; Operating at average of 3 hours per day 430 kWH per day = 154,800 kWH per annum	0.689 kg CO_2 / kWh	106.657	www.epa.gov
Total Tons CO_2 Per Year of Operation			834.97	
III Decommissioning Phase				
Decommissioning of Buildings	360 days	0.6 kgCO_2 per day	0.216	http://www.co2list.org
Decommissioning of Nourished Foreshore	360 days	0.6 kgCO_2 per day	0.216	http://www.co2list.org

Impact Assessment: The impacts to climate of the existing and additional facilities both land-based and foreshore are evaluated at the different stages of the project. Below is the impact analysis:

A. PERFORMANCE OF EXISTING DEVELOPMENT	
CONSIDERATIONS	IMPACTS
Change in local climate	▪ No observed impact to climate due to the existing development
Impacts to Greenhouse Gases	▪ Current operations produces greenhouse gases due to resort operations and use of emergency generator during power interruptions
ADDITIONAL FACILITIES	

Change in local climate	▪ No observed and foreseen impact to climate due to the constructed additional development
Impacts to Greenhouse Gases	▪ Greenhouse gas emission is expected to increase due to the additional facilities

2.3.2 Air Quality/Noise

Methodology: Actual noise monitoring and ambient air sampling were conducted on site. Review of related literature was conducted to determine the air/noise conditions in the project location.

Baseline Profile: From the conducted ambient air sampling monitoring in the site, it shows that the Total Suspended Particles both at the beachfront of the current development and the expansion site for the building are less than 2□g/Ncm.

The noise coming from the expansion project will also be monitores by us.

Impact Assessment: The impacts to climate of the existing and additional facilities both land-based and foreshore are evaluated at the different stages of the project. Below is the impact analysis:

A. PERFORMANCE OF EXISTING DEVELOPMENT	
CONSIDERATIONS	IMPACTS
Decline in Air Quality	▪ No drastic impact to air quality was observed due to the current development
Increase in Ambient Noise	▪ Current resort operation does not produce significant noise in the area
Occupational health risk for workers exposed to noise	▪ No known source of health risk from noise in the current resort operation
ADDITIONAL FACILITIES	
Decline in Air Quality	▪ Except during construction where there is disturbance of sand/land and additional generator capacity during power interuptions, there are no known significant sources of air emission
Increase in Ambient Noise	▪ Except during the construction stage, and the noise of the people in the waterpark, there are no other significant known sources for noise. Waterpark operations are limited during daytime.
Occupational health risk for workers exposed to noise	▪ No known source of health risk from noise except during construction stage where the workers exposed to noise should wear personal protective equipment

2.4 PEOPLE

This section details the baseline condition of the current land environmental settings. From the development plans and the constructed developments, the environmental impacts to land use, geology, pedology and terrestrial ecology are then assessed.

Methodology: Socio-economic profile of the city and Cabayugan were obtained. Interviews were conducted and site inspection was done including the adjacent properties.

Baseline Profile: Population size, growth and distribution**.** The population of Puerto Princesa according to the latest national census (2010) is placed at 225,955. This represents an increase of 7.34% over the previous (2007) census figure. The lone city in Palawan accounts for about 30% of the provincial population. The population of Puerto Princesa has shown a steady growth at a rate that is higher than the national average in practically all periods except during the latest census period 2007-2010.

In terms of average growth rate, the city-ward drift is quite obvious. Equally dramatic is the increase in the percentage share of the City's population to that of the province: from 20.2% in 1995 to a mere 21.4% in 2000, it made a big jump to 30.4% in 2007. Within the City there is overwhelming concentration in the urban area. The urban population in 2007 accounts for 77% of the City's total and yet the urban area occupies only 6% of the total land area of Puerto Princesa. Another indicator is the tempo of urbanization which is the difference between the urban growth rate and the rural growth rate, although there is a slight weakening of the trend from the period 1995-2000 to the period 2000-2007.

Another indicator of population concentration is density or the ratio of population to land area. Against the gross density indicator (total population over total land area) the urban-rural differential is quite stark. The gross density of the urban population is 47 times that of the rural in 2000, growing to 50 times in 2007. In terms of net density (ratio of population to total arable or habitable land) the difference is slightly moderated. In 2000, net urban density is 15 times that of the rural, growing to 17 times in 2007. A comparison of the rate of change reveals that the increase in the urban density nearly reached 600 times that of the rural in 2000. This advantage is reduced to 243 times in 2007.

Another indicator of population distribution is the age-sex ratio. The 2007 population shows a sex ratio of 101 males for every 100 females over all. In the urban area females outnumber males (98 males per 100 females). A lopsided ratio (112 males per 100 females) obtains in the rural population. In terms of age-group ratios, otherwise known as dependency ratios, there are 57 young dependents (0-14 years) and 5 elderly dependents (65 years and above) for every 100 persons in the active age group (15-64 years) in 2007. This yields an over-all dependency ratio of 62%.

Social services and welfare. The status of welfare of the City's population can be inferred from selected development indicators in the education, health and nutrition, housing and similar subsectors. Status of welfare may also be deduced from the reciprocal of development indicators which reflect levels of deprivation, lack of access to various social services, and of poverty in general. In this section of characterization of the City's population the latter type of indicators are used. The equivalent of "trouble shooting" this approach has the advantage of sectoral/spatial focus and facilitates targeting of policy interventions.

Literacy level. The simple literacy rate, which indicates the proportion of the total population that is able to read, write and do simple arithmetic calculations, gives a quick impression of the educational or literacy level. The literacy rate for the whole city is calculated at 98 percent, which rate is almost the same as that for the urban area. The rural area, on the other hand, lags behind by 2 percentage points.

Child nutrition. The general state of health or “unhealth” of the population is determined by the proportion of malnourished or underweight children below the age of 6 years. The critical importance of this age group is that undernourished children at this age acquire a handicap they may not be able to overcome for the rest of their lives. Data for Puerto Princesa indicate nearly one out of every nine children weighs less than what is considered normal for their age. The figure for the rural area is slightly higher than that for the urban and the city as a whole. The lowest incidence of underweight occurs among infants (under 1 year old) but sharply increases among the older children. This may be due to the fact that newly born babies derive their nutrition mainly from breast feeding. The data also suggests that no significant difference exists between the child nutrition states in urban and rural areas.

Access to health care. Incidence of illness and death due to illness is another measure of the degree of “unhealth” of the population. Among other things, this implies access to appropriate and adequate health care and facilities. Studies indicate two major groups of illness that account for the most deaths in Puerto Princesa: environmentally related (malaria) and coronary artery disease and hypertensive vascular disease.

Poverty indicators. Poverty incidence is a catch-all indicator of the general welfare status of the population measured in terms of the proportion of households having incomes below the officially determined “poverty line” for the region, in this case Region IV-B. The CBMS survey results show that nearly one-fourth (23.6%) of all households in Puerto Princesa had incomes below the poverty line in 2009. The urban-rural disparity is most glaring with more than half (53.25%) of rural households as against 14.11% of urban ones considered income-poor. The effects of poverty on access of households to various needs can be seen in a number of related indicators. Similarly, in terms of access to safe water supply and sanitary facilities rural households appear to be severely under-served compared to their urban counterparts. Rural households appear to be better off than their urban counterparts in terms of proportion of squatter families, i.e. those with no secure tenure on housing. In terms of the quality of dwelling structures there are no significant differences between those of urban and rural poor households.

Local Economy: Primary Sector **-** Major crops grown in the city can be further classified into permanent and annual/seasonal crops. Permanent crops include fruit trees, plantation crops, and agro-forestry. On the other hand, seasonal crops are dominated by rice, corn, vegetables, and root crops. The total volume of production of all crops in the city is estimated at 22,425,896 MT. Of this total yield, agro- forest contributed more than half of the total production, followed by plantation crops and fruit trees both contributing about one-third. All other crops contributed less than 1% of the total agricultural production in 2009. Carabao population in 2009 was 2,315. Population contracted abruptly in 2006 but steadily climbed in succeeding years. Cattle population of the city sustained increases for the last five years. From 5,090 heads in 2005, it gradually increased to 5,715 in 2009. Poultry population of the city significantly increased from 84,504 in 2005 to 985,362 in 2006.

The fishery subsector is a very significant economic activity in the city due to the presence of, and access by the fisher folks to several fishing grounds from inland to near shore to offshore. Inland fishing grounds include rivers, creeks and swamps. Most of the barangays especially in the rural area are traversed by rivers or creeks. Near shore fishing grounds include the extent of municipal waters in Honda Bay, Puerto Princesa Bay, Ulugan Bay and St. Paul Bay. The city is considered as one big coastal community. Seventy-nine percent or 52 of its 66 barangays are located in coastal fringes, and are home to thousands of people for whom the sea is a vital source of livelihood. For offshore fishing, the fisher folks of the city have access to the vast South China Sea on the west and Sulu Sea on the east.

Consistent with the City's vision of a city in a forest, 72% of the city's land areas comprise forest. However, there are no major forest-based production activities in the city as it is covered by RA 7611, otherwise known as the Strategic Environmental Plan (SEP) for Palawan. SEP serves as the framework for all developmental undertaking in the province. Minor forest products like softwood, rattan, nipa and bamboo support the small-scale furniture shops, handicrafts, sawali, amakan and nipa shingle weaving industries.

Secondary Sector **–** The City does not encourage extractive industries or those that are pollutive/hazardous industries causing adverse impacts upon the environment. Potential and preferred industries include dairy, industrial rice production, essential oil production, paper making, and the processing of agricultural goods such as cashew, coconut, mango, fish, and meat products. Similarly, processing of minor forest products such as rattan, almaciga resins, honey, bamboo, and buho can be utilized by small-medium industries in the production of furniture, souvenir and novelty items. In 2009, there were 59 registered firms engaged in this activity. The growth of the construction industry may be attributed to the growing population and the provision and improvement of infrastructure facilities supportive of tourism. Significant year-on-year increases in the number of approved building permits were observed particularly in commercial and residential sectors. In 2009, the total number of approved building permits and residential building construction posted 19% and 30% increase respectively over 2008. Similarly, year-on-year local revenues generated by the city government from this sector posted notable increases.

The Tertiary Sector **-** Consistent with its role as the center of tradeand commerce, communication, education and public administration in the province, Puerto Princesa is the concentration of trade and service establishments. This sector has 3,796 registered business establishments in 2009. There are 141 banks and non-bank financial institutions operating in the city.

Puerto Princesa is the main gateway to the rest of Palawan. It is accessible from major cities like Manila and Cebu via daily flights of four commercial airlines at approximately one (1) hour interval. A cargo ship also visits Puerto Princesa from Manila once a week. Transportation in the city is dominated by motorized tricycle and multicabs. There are 4,000 tricycle units owned and operated by 3,092 owners. External routes are served by jeepneys, air-conditioned shuttle vans, and buses plying between the city and other municipalities. Registered vans for hire totalled to 136 units. Currently, the city has four service providers of telecommunication system. These include Smart Communications, Globe Telecoms, Inc., PLDT and Suncellular. Sixty-two (62) barangays have network coverage while PLDT connections are available in city central barangays. There are also five (5) radio stations existing in the city providing broadcast service in the whole province of Palawan and some places outside the country. Moreover, three (3) television networks from Manila provide live telecast in the city. These comprise 2 hospitals, 43 drugstores, 131 restaurants, 134 canteen/carinderia, 19 refreshment parlor/restaurant with sing along, 107 tourism-related establishments (hotels, apartelles, pension house/inns, resorts, etc.), 2 tape/video rental stalls and 11 manpower services. Source: Puerto Princesa Comprehensive Development Plan.

Employment – Resort development is mainly the business that employs people in Sabang, Cabayugan.

Accessibility – Bgy. Cabayugan can be accessed through land transportations. Sheridan Beach Resort and Spa is beside the Puerto Princesa North Hi-way.

Health & Nutrition – there is a rural health unit center that takes care of the common illnesses

in the area. The unit is open daily and is manned by a midwife. Vaccination and pre-natal care are the main activities in the center.

Sanitation & Solid Waste Management - Solid wastes are collected by the City government and disposed in the central landfill. Solid wastes are collected regularly through the city garbage collecting trucks.

Water Supply - There is no water line for the communities in the barangay. Households get their water supply from deep wells and surface water.

Electricity - The barangay is supplied with electricity by Palawan Electric Cooperative. Generator set is used only during power interruptions.

Barangay leadership – The barangay captain is the recognized leader of the community. He downloads information from the city government to his constituents. Issues and concerns of the community are discussed during the council meeting, sometimes with the participation of the parties concerned for proper decision making.

Barangay facilities and infrastructure – The barangay has basic facilities for the communities, which includes barangay hall, health center, elementary and high school, day care center and basketball court. There are also churches and stores in the area.

Impact Assessment: The impacts to community of the existing and additional facilities both land-based and foreshore are evaluated at the different stages of the project. Below is the impact analysis:

A. PERFORMANCE OF EXISTING DEVELOPMENT	
CONSIDERATIONS	IMPACTS
Identify settlers that will be displaced from among the existing settlers	▪ The properties are titled lots; no settlers have been displaced due to the existing project
Discuss the in-migration patterns impact as a result of project implementation	▪ No in-migration patterns observed due to project operation
Discuss the impacts on IPs and Culture/lifestyle	▪ There were no indigenous people in the area
Discuss the project implementation's threat to public health vis-a-vis the baseline health condition in the area	▪ Due to the nature of the development, no known effect to public health was observed during the current resort operation
Discuss local benefits expected from project implementation	▪ The project provided jobs from construction to operation. It is also expected to improve the economic development of the local community.
Discuss how the project would affect the delivery of basic services and resource competition in the area	▪ Delivery of basic services of the barangay is not expected to be affected. Water utilization is not significant to compete with the community and it is sourced from local water district. The company also donated construction of deep well for the barangay
Discuss how the project would affect traffic situation in the area	▪ The project is not projected to cause traffic to the area since the place is part of the rural community
Identify entity to be accountable for environmental management in the area	▪ The company has already appointed a Pollution Control Officer that complies with the DENR rules and regulations and ECC conditions
Discuss how the project would affect existing properties in the area in terms of relocation and devaluation	▪ Due to the development, the properties near the area increased in value.
Identify affected properties	▪ There are no known areas that were affected negatively by the development.
ADDITIONAL FACILITIES	
Identify settlers that will be displaced from among the existing settlers	▪ There are no settlers to be displaced,
Discuss the in-migration patterns impact as a result of project implementation	▪ There are no indigenous people in the area of the additional facilities.

Discuss the impacts on IPs and Culture/lifestyle	▪ Due to the nature of the development, no known effect to public health is expecte during the implementation of the additional facilities.
Discuss the project implementation's threat to public health vis-a-vis the baseline health condition in the area	▪ The project will continue to provide jobs to the community from construction to operation. It is also expected to improve the economic development of the local community.
Discuss local benefits expected from project implementation	▪ Delivery of basic services of the barangay is not expected to be affected negatively due to the project. Water utilization is not significant to compete with the community and it is sourced from its own water sytem using treated surface water.
Discuss how the project would affect the delivery of basic services and resource competition in the area	▪ Delivery of basic services of the barangay is not expected to be affected negatively due to the project. Water utilization is not significant to compete with the community and it is sourced from its own water sytem using treated surface water.
Discuss how the project would affect traffic situation in the area	▪ The project is not projected to cause significant traffic congestion to the area. There is sufficient area for transportation parking.
Identify entity to be accountable for environmental management in the area	▪ The company has already appointed a Pollution Control Officer who will still act as the Pollution Control Officer for the additional facilities.
Discuss how the project would affect existing properties in the area in terms of relocation and devaluation	▪ There are no affected existing properties that will involve relocation. However, in terms of property valuation, it is expected that the adjacent and nearby areas will increase in value because of the project implementation.
Identify affected properties	▪ There are no known areas that will be affected negatively by the development.
Discuss employment enhancement and livelihood Opportunities Increased business opportunities and business activities Increased revenue of LGUs	▪ The expansion project needs to increase the numbers of workers to be hired in their operation and so more people, specially local people, will be given more opportunities to work. This will results to increase in livelihood opportunities. ▪ New business activities like restaurants, sari-sari stores, etc will also sprout. ▪ The expansion project will increase the income of the company which will redound to increase in income too for the LGUs and the National government.
	▪

CHAPTER 3: ENVIRONMENTAL RISK ASSESSMENT

CHAPTER 3: ENVIRONMENTAL RISK ASSESSMENT

This section analyzes the hazards and risk relevant to the project. The hazards and risks associated with the emergency environmental discharges due to natural hazards are discussed. Other hazards include geohazard which refers to an event, such as a tsunami, storm surge, which can result in casualties and damage to property.

Hazards determined through relevant maps and site observation. Below summarizes the identified hazards and the corresponding risks:

Geohazard	Susceptibility	Remarks
Seismic Hazards		
faulting	none	no active or potentially active fault
fault creep	none	no active or potentially active fault
ground motion	none	Palawan is generally aseismic; far from earthquake generators
liquefaction	none	Palawan is generally aseismic; not underlain by liquefiable material
settlement	none	Palawan is generally aseismic
EQ-induced landslides	none	Palawan is generally aseismic; no slopes in area
sinkhole collapse	none	Palawan is generally aseismic; not underlain by limestone
tsunami	none	No active or potentially active fault
seiche	none	Palawan is generally aseismic; no lakes, reservoirs, large ponds
Coastal Hazards		
tsunamis	none	No active or potentially active fault
storm surge	moderate	although rare, typhoons can also pass through Palawan; protected by three (3) shoals
coastal erosion	low	from comparison of NAMRIA map and satellite image
aggradation	moderate	from comparison of NAMRIA map and satellite image
headland erosion	none	no headlands
coastal flooding	none	applicable more to mouth of Babuyan River
subsidence	low	no large scale groundwater extraction
salt water intrusion	low	no large scale groundwater extraction
sea level rise	low	limited magnitude

NB. The area is not susceptible to tsunamis as there is no active or potentially active fault

Fluvial Hazards		
inundation	none	not on flood plain
flash floods	none	no major waterway
debris flows	none	no major waterway
siltation	none	no major waterway
bank erosion & channel migration	none	no major waterway
scouring	none	no major waterway
slope instabilities		
landslides	none	no slopes in area
rockfalls	none	no slopes in area
rockslides	none	no slopes in area
Volcanic Hazards		
lava flow	none	no active or potentially active volcano
pyroclastic flow	none	no active or potentially active volcano
lahar	none	no active or potentially active volcano
debris flow	none	no active or potentially active volcano
mudflow	none	no active or potentially active volcano
ashfall	none	no active or potentially active volcano
ballistic projectiles	none	no active or potentially active volcano
debris avalanche	none	no active or potentially active volcano
phreatic explosions	none	no active or potentially active volcano
volcanic quakes	none	no active or potentially active volcano
rockfalls	none	no active or potentially active volcano
gases	none	no active or potentially active volcano
subsidence	none	no large scale groundwater extraction
sinkholes	none	not underlain by limestone
Other Hazards		
Oil Spill	moderate	potential during nourishment project and landbased maintenance activities

Environmental Risk Management Plan

Mitigation Measures - In case of risk to a project or a project component, the proponent shall cope with the risks through modifications to the project by means of adaptation measures or risk reduction measures.

Emergency Response Plan shall be established and a high building point must be constructed for coastal hazards evacuation

Oil leaks contingency plan shall be crafted

- Spill Contingency Plan has been crafter and shall review its applicability for the additional facilities
- Evacuation plan shall be crafted
- It shall be the policy of the proponent during emergency situations to use all available resources first to protect the employees followed by preservation of property and the environment
- Systems and procedures will be established for an effective response to all identified emergency situations which will be documented in the proponent's Emergency Response Plan
- Employees will be trained in the effective implementation of the emergency response while emergency drills and exercises will be regularly conducted with the cooperation of external response organizations.

To ensure that hazards or risks that may be posed to the project are further minimized, the following measures are recommended:

- Adoption of corporate safety policies incorporating environmental concerns in the entire operation for strict adherence by all employees and with full support by top management.
- Manpower complement should consist of professional, technical and competent employees who possess a high regard for health and safety and are environmentally conscious.

CHAPTER 4: IMPACTS MANAGEMENT PLAN

CHAPTER 4: IMPACTS MANAGEMENT PLAN

Project Phase/ Environmental Aspect	Environmental Component Likely to be Affected	Potential Impact	Options for Prevention or Mitigation or Enhancement	Responsible Entity	Cost
I. Construction Phase					
Nourishment/Earthworks, Structural and finishing works	Land	Erosion	• Use of slope stabilization techniques and erosion prevention methods	Project Manager	Include in construction cost
	Water	Domestic wastewater	• Use of toilets and septic tanks	Project Manager	Include in construction cost
		Potential Oil Spill	• Proper maintainance of trucks/equipment	Project Manager	Contractor Cost
	People (health and sanitation)	Domestic solid waste	• Waste segregation • Maintenance of a materials recovery facility within the project site	Project Manager	Include in construction activities
	Air and Noise	Increase in noise level	• Preventive and regular maintenance of noise- emitting hand tools • Provide enclosure of work area where necessary.	Project Manager	Include in construction cost
II. Operation Phase					
Resort operation and maintenance	Water	Underground/surface water depletion and contamination	• Implement water recycling and reduction technologies • Provision and maintenance of appropriate septic tanks • Facilities involved in food preparation shall be provided with grease traps • Used oil shall be collected in water tight containers and disposed of	Resort Manager/ PCO	Include in operation cost

			through an accredited transporter and treater.		
					192
	Solid Waste	Generation of Solid Wastes	• Provision of garbage bins for biodegradable and non-biodegradable solid waste at strategic locations within the resort	Resort Manager/ PCO	Include in operation cost
	Health and Safety	Health impacts of workers	• Compliance to labor standards and regulations • Provision of necessary personnel protective equipment • Provision and maintenance of first aid paraphernalia • A water quality analysis shall be regularly conducted in coordination with appropriate government agency and/or the local health authorities.	Resort Manager/ PCO	Include in operation cost
		Proliferation of disease carriers	• Institution of flies and rodents control measures.	Resort Manager/ PCO	Include in operation cost
	Air and Noise	Emission of dusts/noise	• Preventive and regular maintenance of generator set	Resort Manager/PCO	Include in operation cost
III. ABANDONMENT					
Abandonment	Land and improvements	Wastes, structures, and equipment	• Haul out wastes	Resort Manager/PCO and City Government	Include in operation cost

CHAPTER 5: SOCIAL DEVELOPMENT PLAN

CHAPTER 5: SOCIAL DEVELOPMENT PLAN/FRAMEWORK

Concern	Responsible Member/Beneficiary	Government Agency/ Non-government Agency and Services	Proponent	Indicative Timeline	Source of Fund
Livelihood/ Employment	Local Community	To hire locally; partner with the Barangay and City Government Programs	Resort Manager	During Project Construction/ Implementation	Proponent
Health and Safety	Local Community	To participate in Barangay activities regarding healthcare	Resort Manager	During Project Implementation	Proponent
Education and Recreation	Local Community	To participate in Barangay activities regarding education	Resort Manager	During Project Implementation	Proponent
Environment and Sanitation	Local Community	Cooperate with the Barangay efforts for environment and clean-ups	Resort Manager	During Project Implementation	Proponent
Peace and Order	Local Community	To appoint security in the area of vicinity	Resort Manager	During Project Implementation	Proponent

5.1 Information Education Campaign

Target Sector Identified as Needing Project IEC	Major Topics of concern in Relation to Project	EC Scheme / Strategy / Methods	Information Medium	Indicative Timelines and Frequency	Indicative Cost Pesos
LGUs (Bgys to City)	Socio-economic Benefits Environment and Health	Group Method	Group Presentation	Prior to Barangay Endorsement	10,000
NGOs/MMT Members	The Environmental Performance & Management Plan	Group Method	Group Meeting/Presentation	After Issuance of ECC	20,000

CHAPTER 6: ENVIRONMENTAL COMPLIANCE MONITORING

CHAPTER 6: ENVIRONMENTAL COMPLIANCE MONITORING

6.1 Self-Monitoring

A. ENVIRONMENTAL MANAGEMENT & MONITORING PLAN FOR LAND-BASED ADDITIONAL FACILITIES														
Key Environmental Aspects per Project Phase	**Potential Impact Per Environmental Sector**	**Parameter to be Monitored**	**Sampling and Measurement Plan**			**Lead Person**	**Annual Estimated Cost**	**EQPL MANAGEMENT SCHEME**						
								Level			**Course of Action**			
			Method	**Frequency**	**Location**			**Alert**	**Action**	**Limit**	**Alert**	**Action**	**Limit**	
Construction Phase														
Earthworks, hauling of materials, and use of various hand tools	Generation of dust and noise from construction activities	Total suspended particulates	Ambient air and noise quality sampling at the site.	Quarterly; daily through daily visual observation	Construction project area and vicinity.	Project Engineer	1 station x 800/sample x 4 quarters	220 (µg/Ncm)	225 (µg/Ncm)	230 (µg/Ncm)	Regular watering of work areas to minimize dust.	Increase frequency of watering activity.	Segregate work areas by fencing.	
		Noise levels		Quarterly; daily observation of noise-producing equipment			1 station x 800/sample x 4 quarters = 3,200	70 dBA	73 dBA	75 dBA	Conduct preventive maintenance of hand tools.	Increase frequency of preventive maintenance of hand tools	Change noise-producing equipment and/or hand tools.	

	Domestic solid waste	Construct i on waste segregati o n by classificat i on.	Inspecti o n of storage area.	Daily	Constru c tion area.	Project Engneer	Include in construct i on cost	Instanc e of un-segreg a ted wastes	Freque n t Instanc e of un-segreg a ted wastes	Dispos a l to dumpsi t e of unsegr e gated wastes	Strict implementati on of Solid Waste Management Plan	Re-orientation of manpower	Disciplinary action
		Collection and segregatio n of residual, non-biodegrad able, non-recyclable , and non-hazardous waste											
	Discharge of untreated domestic wastewate r may contaminat e groundwat er and/or the	Presence of septic tank.	Regular inspectio n/visual observati on	Quarterly	Construc tion site	Project Enginee r	Include in constru cti on cost	Absenc e of any septic tank/ho lding tank	Absen c e of any septic tank/h o ldin g tan k	Absen c e of any septic tank/h o ldin g tank	Prohibit release of domestic wastewater	Prohibit release of domestic wastewater	Prohibit release of domestic wastewater

	receiving water body	BOD/TSS	Grab sampling ; RA 9275 lab analysis method	Monthly	Effluent/ Creek	Project Engineer	1 station x 950/sample/qtr x 4 = P3,800	25 mg/l	27 mg/l	30 mg/l	Perform maintenance work at sewage treatment plant.	Perform maintenance work at sewage treatment plant.	Prohibit release of wastewater
	Increase in domestic water demand for construction workers	Increase in volume of potable water consumption	Daily/Monthly records	Daily/Monthly	Water source	Project Engineer	Include in construction cost	Decrease in availability of potable water	Low water supply from sources	No potable water	Conduct quantity investigation to address the problem	Look for additional source of water	Halt construction
	Occupational health and safety	Workers are exposed to various work-related injuries,	Periodic inspection and validation	Semi-annual	Project site	Project Engineer	Include in construction cost	Major Safety Hazards as audited by	Occurrence of one work-related accident	Occurrence of multiple work-related accidents or	Re- orientation or re-training on health and safety procedures	Re-orientation or re-training on health and safety procedures	Disciplinary Action

		illnesses or hazards						Safety Officer	t or illness	illness			
Operation Phase													
Operation and maintenance	Increase in domestic water demand	Increase in potable water consumption	Daily/Monthly consumption records	Daily/Monthly	Water source	Resort Manager	Include in operation cost	Decrease in availability of potable water	Low water supply from sources	No potable water	Conduct quantity investigation to address the problem	Look for additional source of water	Halt construction

	Discharge of untreated domestic wastewater may contaminate groundwater and the receiving water body	Operation of centralized sewage treatment system	Regular inspection/visual observation	Quarterly	Sewage treatment plant		Include in operating cost	Absence of any septic tank/holding tank	Absence of any septic tank/holding tank	Absence of any septic tank/holding tank	Prohibit release of domestic wastewater	Prohibit release of domestic wastewater	Prohibit release of domestic wastewater
		BOD	Grab sampling; RA 9275 lab analysis method	Quarterly	Sewage treatment plant		1 station x 950/sample/qtr x 4 = P3,800	45 mg/l	47 mg/l	50 mg/l	Perform maintenance work at sewage treatment plant.	Perform maintenance work at sewage treatment plant.	Prohibit release of wastewater
	Domestic solid waste	Waste segregation through color-coded waste bins	Inspection of required facilities	Daily	Resort premises	Resort Manager	Include in operation cost	Instance of un-segregated wastes	Frequent Instance of un-segregated wastes	Disposal to dumpsite of unsegregated wastes	Strict implementation of Solid Waste Management Plan	Re-orientation of manpower	Disciplinary action
		Collection and segregation of residual, non-biodegrad											

		able, non-recyclable, and non-hazardous waste Maintenance of a materials recovery facility in the area											
	Generation of noise from operation activities	Noise	Noise Monitoring	Quarterly; daily observation of noise-producing equipment	Resort premises	Resort Manager/ Occupational Safety	1 station x 800/sample x 4 quarters = 3,200	70 dBA	73 dBA	75 dBA	Conduct preventive maintenance of hand tools.	Increase frequency of preventive maintenance of hand tools	Change noise-producing equipment and/or hand tools.
Occupational health and safety	Workers are exposed to various work-related injuries, illnesses or hazards	Compliance to law enforcement standards on health, safety, and welfare benefits Provision of PPEs Number of work-related accidents	Periodic inspection and validation	Monthly (company policy)	Resort premises	Resort Manager/ Occupational Safety and Health Manager/Officer	Include in operation cost	Major Safety Hazards as audited by Safety Officer	Occurrence of one work-related accident or illness	Occurrence of multiple work-related accidents or illnesses	Re-orientation or re-training on health and safety procedures	Re-orientation or re-training on health and safety procedures	Disciplinary Action

III. Abandonment Phase													
Decommissioning	Maintenance of utilities	Certification of safety	Inspection and technical appraisal by the City Building Official		Water supply, Power supply, and sewage treatment plant	Resort Manager, City Government				With citations			Implement recommendations

6.1 Multi-sectoral Monitoring Framework

The proponent is willing to create a multipartite monitoring team to regularly monitor the compliance of the resort with all applicable environmental laws and regulations.

6.2 Environmental Guarantee and Monitoring Fund Commitment

The proponent is willing to provide fund as required by the Department of Natural Resources – EMB MIMAROPA.

In cases of equipment breakdowns resulting to accidental releases of effluents, emissions or diseases, the Manager shall right away inform the concerned government agencies for support and public information. The resort shall maintain Emergency Preparedness and Response Team to handle emergency and disaster situations. Agencies to be contacted include:

- DENR for all emergency releases and concerns affecting the environment and public safety
- City Health for infectious diseases and water contamination
- The Barangay for issues concerning community health and sanitation concerns Emergency
- Response Procedure for Spills, Fires and Explosions

Phase 1 - Immediately Upon Discovery of an Emergency

1. An employee discovering a spill, fire, or an imminent danger of explosion involving hazardous waste that is not easily controllable with equipment and materials at hand must contact the Emergency Coordinator.
2. The Emergency Coordinator will immediately respond to the call and assess the situation.
3. If the emergency can be controlled without evacuating the plant, Emergency Response Team will be contacted to respond to the incident.
4. If the Emergency Coordinator determines that the incident requires evacuation of the plant, he will immediately activate the internal alarm.
5. NOTE: All employees are instructed to activate the internal alarm system, if the incident is an obvious immediate threat to fellow employees or the environment.
6. All employees hearing the alarm must close down their equipment and proceed to the administration building to await further instructions.
7. Members of the Emergency Response Team will proceed to the plant engineering office to await further instructions from the Emergency Coordinator.
8. The Emergency Coordinator will concurrently assess the situation by identifying the character, exact source, amount and extent of any released material.
9. He will also assess possible threats to human health and the environment.
10. If the incident could threaten the environment or human health outside the Company property, the Emergency Coordinator will contact the Fire Department, the Police Department, and Hospital if injuries have occurred from the incident.
11. A designated member of the emergency crew will conduct a roll call for all employees who reported to the administration building and engineering office.

Phase 2 – During the Emergency Control

The Emergency Coordinator will take all necessary measures to contain the hazard within the facility property, and to prevent its spread to other nearby properties, with the assistance of the Emergency Response Team and emergency personnel assigned by the various parties contacted.

1. Emergency Response Team are instructed to carry respirators or self-contained breathing apparatus (SCBA)'s and wear boots, gloves, and safety glasses prior to responding to an emergency.
2. In case of a spill of flammable waste, absorbent material will be placed on the spill by the Emergency Response Team.
3. In case of a spill of waste oil from the tank, the Emergency Response Team will dike aroun

CHAPTER 7: EMERGENCY RESPONSE POLICY

CHAPTER 7: EMERGENCY RESPONSE POLICY

In cases of equipment breakdowns resulting to accidental releases of effluents, emissions or diseases, the Manager shall right away inform the concerned government agencies for support and public information. The resort shall maintain Emergency Preparedness and Response Team to handle emergency and disaster situations. Agencies to be contacted include:

- DENR for all emergency releases and concerns affecting the environment and public safety
- City Health for infectious diseases and water contamination
- The Barangay for issues concerning community health and sanitation concerns

Emergency Response Procedure for Spills, Fires and Explosions

Phase 1 - Immediately Upon Discovery of an Emergency

1. An employee discovering a spill, fire, or an imminent danger of explosion involving hazardous waste that is not easily controllable with equipment and materials at hand must contact the Emergency Coordinator.
2. The Emergency Coordinator will immediately respond to the call and assess the situation.
3. If the emergency can be controlled without evacuating the plant, Emergency Response Team will be contacted to respond to the incident.
4. If the Emergency Coordinator determines that the incident requires evacuation of the plant, he will immediately activate the internal alarm.
5. NOTE: All employees are instructed to activate the internal alarm system, if the incident is an obvious immediate threat to fellow employees or the environment.
6. All employees hearing the alarm must close down their equipment and proceed to the administration building to await further instructions.
7. Members of the Emergency Response Team will proceed to the plant engineering office to await further instructions from the Emergency Coordinator.
8. The Emergency Coordinator will concurrently assess the situation by identifying the character, exact source, amount and extent of any released material.
9. He will also assess possible threats to human health and the environment.
10. If the incident could threaten the environment or human health outside the Company property, the Emergency Coordinator will contact the Fire Department, the Police Department, and Hospital if injuries have occurred from the incident.
11. A designated member of the emergency crew will conduct a roll call for all employees who reported to the administration building and engineering office.

Phase 2 – During the Emergency Control1.

1 The Emergency Coordinator will take all necessary measures to contain the hazard within
the facility property, and to prevent its spread to other nearby properties, with the assistance
of the Emergency Response Team and emergency personnel assigned by the various parties

contacted.

2. Emergency Response Team are instructed to carry respirators or self-contained breathing apparatus (SCBA)'s and wear boots, gloves, and safety glasses prior to responding to an emergency.
3. In case of a spill of flammable waste, absorbent material will be placed on the spill by the Emergency Response Team.
4. In case of a spill of waste oil from the tank, the Emergency Response Team will dike around the tank with absorbent material.
5. If the spillage is due to the tank being ruptured, immediately empty the tank.
6. In case of a fire or explosion, Emergency Response Team is instructed that if the fire cannot be readily controlled with available equipment, the area must be immediately evacuated.

Phase 3 - Following Attainment of Control

1. Following containment and control of the emergency, the Emergency Coordinator, along with the Emergency Response Team, will provide for collection, treatment, and disposal of the waste and contaminated soil, water, or other materials.
2. The Emergency Coordinator will ensure that all emergency equipment is restored to full operational status by the Emergency Response Team.
3. The emergency coordinator will investigate the cause of the emergency and will take steps to prevent a recurrence of such or similar incidents.

4. The Emergency Coordinator will make sure that clean up and restoration have progressed at least to the point of not jeopardizing the health and safety of the employees
5. The Emergency Coordinator will report the incident to EMB staff and local authorities before permitting resumption of the operations affected by the emergency.

Evacuation procedure for all personnel on site

Emergency Response Team shall:

1. Lead employees from work areas when the evacuation alarm sounds;
2. Assist any employees with disabilities;
3. Escort employees to the Designated Assembly Area;
4. Account for all employees upon reaching the designated assembly area
5. Notify human resources of any employee not accounted for

6 Ensure that employees stay in the assembly area

Emergency response equipment

Fire Control Equipment - To provide rapid response to fires, wall-mounted, hand-held fire extinguishers are centrally located at each of areas within the facility. Because the primary danger of fire is from flammable liquids, carbon dioxide extinguishers are used. An automatic sprinkler system runs throughout the facility. The sprinkler system is of the foam-water type. Capabilities: Response to small fires.

7-3

Spill Control Equipment – The Kitchen and theHW Storage is equipped with a supply of spill absorbing materials, shovels, and an emergency shower to wash off spills. The engineering area contains a large supply of absorbent material, shovels, over pack drums, and brooms for spill control. Capabilities: Response, containment, and cleanup of spills throughout the facility.

First Aid - The administration building houses a fully stocked first aid station. Capabilities: To provide first aid for minor injuries which occur during normal situations or during emergencies.

Personal Protective Equipment - The engineering area also contains a large supply of coveralls, boots and gloves for Emergency Response Team. Also, each emergency crew member is assigned and test fitted in a full-face respirator with appropriate cartridges. Capabilities: To provide emergency crew members with protection when responding to emergency spills.

CHAPTER 8: DECOMMISSIONING POLICY

CHAPTER 8: DECOMMISSIONING POLICY

8.00 Policy

A 25-30-year lifespan is estimated as the useful life of the buildings, after which time assessments will be made as to the best course of action for the facility: full decommissioning or upgrades to extend operational lifespan. In the event of decommissioning, a comprehensive will be implemented, with environmental, public and staff safety as core values. All building will be deconstructed, materials disposed of and recycled where possible and land restored to its quality.

The facilities will be either removed as a whole or disassembled, pending reuse or recycling. Once cleared, the area will be replanted or prepared for the next use of the area. The foundations will be excavated and hauled off-site to be disposed of at licensed facility. The excavated area will then be filled in with native soil and re-graded or replanted to the requirements of the next use of the area.

8.1 Procedures for Decommissioning

Decommissioning procedures will be similar to the construction phase and will include:

8.1.1 Create temporary work areas in order to provide sufficient area for the lay-down of the disassembled facilities and loading onto trucks.
8.1.2 Use of cranes and appropriate equipment to remove the foundations/posts.
8.1.3 Bedding material will be removed and replaced with clean subsoil and topsoil for reuse by The landowner for the next purpose. It is proposed to leave drainage system in place following the operations phase.
8.1.4 The facility will be demolished and decommissioned in a manner appropriate to and in accordance with the standards of the day.
8.1.5 All materials will be recycled, where possible, or disposed off-site at an approved and appropriate facility.

8.2 Oil Spill Prevention

Although strict spill prevention procedures will be in place, there is the potential through the decommissioning process for small spills of oil. The soil conditions of the area will be surveyed to determine if any impacts have occurred. Should soil impacts be noted, the impacted soils will be identified, excavated, and removed to the applicable standards from the site for disposal at an approved and appropriate facility. The removed soils will be replaced with subsoil and topsoil and replanted where necessary.

CHAPTER 9: INSTITUTIONAL IMPLEMENTATION

CHAPTER 9: INSTITUTIONAL IMPLEMENTATION

9.1 Environmental Management Structure

Pollution Control Officer - Attend to the requirements of the establishment prior to the construction or installation of pollution control facilities including the application and securing of necessary pollution permits and renewal thereof; Monitor activities pertaining the installation or construction of pollution source and control facilities with the end in view of ensuring their compliance with the air, noise and water quality standards; supervise the proper operation and maintenance of pollution control facilities of the establishment or agency; Report within reasonable time to the Authority the breakdown of any pollution control facility, and the estimated and actual date of completion/repair and operation; Promptly submit periodic reports; Acts a liaison officer with the government agencies mentioned below and other agencies as necessary

.

- Environmental Management Unit – Composed of the Resort Manager, Pollution Control Officer, Safety Officer and Security Personnel ensuring the proper implementation of the Environmental Management Plan and acting as secretariat for the Multidisciplinary Monitoring Team.

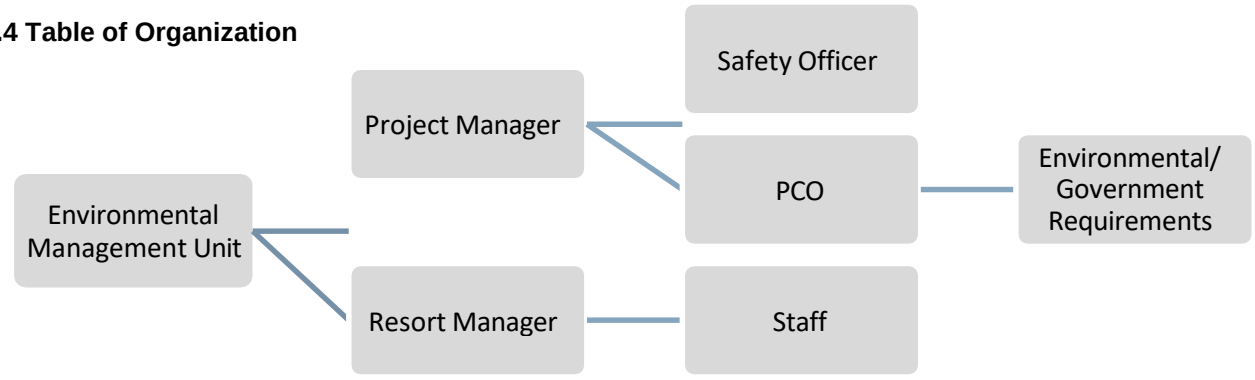
9.2 Government Agencies for Coordination

- Department of Environment Natural Resources
  - PENRO
  - CENRO
  - Provincial Environmental Management Unit
- Puerto Princesa City Government
  - Environment & Natural Resources Office
  - City Solid Waste Management
  - City Tourism Department
  - Barangay Council

9.3 Other Agencies

9.1.1 Non-Government Office
9.1.2 Palawan Council for Sustainable Development
9.1.3 Laboratories for monitoring

9.4 Table of Organization



CHAPTER 10: PEMAPS

CHAPTER 10: PEMAPS

PROJECT ENVIRONMENTAL MONITORING AND PRIORITIZATION SCHEME

Project Name:	SHERIDAN BEACH RESORT AND SPA
Project Location:	SITIO SABANG, BRGY, CABAYUGAN, PUERTO PRINCESA CITY, PALAWAN
ECC Reference No.:	ECC-4B-148-PA-9690-2007
Proponent:	JECO DEVELOPMENT CORPORATION
Pollution Control Officer:	JOSE MARIANO G. GENCIANA
Tel. No./Fax No./E-mail:	4341449/4341448/ pollutioncontrolofficer@sheridanbeachresort.com
Project Type:	RESORT
Project Status:	EXPANSION PROJECT

I. PROJECT CONSIDERATIONS

1.1 Size and Type	50,917 sq. meters
1.1.1 Size based on number of employees Specify number of employees:	212
1.1.2 Type:	

ECP (in either ECA or Non-ECA)	☐
Non-ECP but in ECA	☑
Non-ECP and Non-ECA	

1.2 Waste Generation and Management ☐

1.2.1 Enumerate Waste Type and Specify Quantity of Wastes generated in your facility. (Identify /Enumerate)

Category	Waste	Type		Quantity
		Hazardous	Non-Hazardous	
Air	Waste 1			(units: MT/yr)
	NUISANCE DUST		✓	
	Waste 2			
	Waste N			
Liquid	DOMESTIC WASTE		✓	(units: m^3/yr) 18,000m3
Solid	KITCHEN WASTE		✓	(units: tons/yr) 2.4 TONS
	HOUSEHOLD TRASH		✓	4.2 TONS

1.3 Pollution Control System (PCS)

1.3.1 Enumerate PCS or Waste Management Method Used in your facility. (Identify /Enumerate)

Category	PCS/Waste Management Method Use	Remarks
Air	PCS 1	
	PCS 2	

	PCS N	
Liquid	Primary DOMESTIC HUMAN WASTE	SEPTIC TANK
	Secondary	Membrane BioReactor (MBR) System
	Tertiary	Membrane BioReactor (MBR) System
Solid	RECYCLING	Recycling of re-usable material/disposal through the municipal garbage disposal
	COMPOSTING	Composting of biodegradable wastes from kitchen and restaurant
	COLLECTION OF GARBAGE	Recycling of re-usable material/disposal through the municipal garbage disposal

II. PATHWAYS

II. PATHWAYS

2.1 Prevailing wind towards barrio or city? (mark the corresponding point) Yes ☑ No ☐

2.2 Rainfall (impacts surface & groundwater pathways)

2.2.1 Average annual net rainfall: Specify amount: 1,000mm

2.2.2 Maximum 24-hour rainfall:

Specify amount: 500mm

2.3 Terrain (select one and mark) Flat ☑ Steep ☐

2.4 Is the facility located in a flood-prone area? (select one and mark) Yes ☐ No ☑

2.5 Ground Water

Depth of groundwater table (meter)	(select one and mark)
0 to less than 3	☐
3 to 10	☑
Greater than 10	☐

III. RECEIVING MEDIA/RECEPTORS

3.1 Air (Distance to nearest community) (select one and mark)

0 to less than 0.5 km	☐
0.5 to 1 km	☑
Greater than 1 km	☐

3.2 Receiving Surface Water Body

3.2.1 Distance to receiving surface water: (select one and mark)

0 to less than 0.5 km	☑
0.5 to 1 km	☐
Greater than 1 km	☐

3.2.2 Size of population using receiving surface water Specify number:

<1000

3.2.3 Fresh Water

3.2.3.1 Classification of fresh water: (select one and mark)

A
A ☐

A ☑

B ☐

C ☐

D ☐

3.2.3.2 Size of fresh water body: Specify size:

3.2.3.3 Economic value of water use (may select more than one of the criteria below)

☑

Drinking ☑

Domestic ☑

Recreational

Fishery

☑
Industrial ☐

Agricultural ☐

☑

3.2.4 Salt water

3.2.4.1 Classification of salt water (select one and mark)

☐
S
A

☑
S
B

S
C ☐

SD ☐

3.2.4.2 Economic value of water use (may select more than one of the criteria below)

Fishery ☑

Tourist zone or park ☑

Recreational ☑

Industrial ☐

3.3 Ground Water

3.3.1 Distance to nearest recharge area (select one and mark)

0 to less than 0.5 km ☐

0.5 to 1 km ☑

Greater than 1 km ☐

3.3.2 Distance to nearest well used (select one and mark)

0 to less than 0.5 km ☑

0.5 to 1 km ☐

Greater than 1 km ☐

3.3.3 Groundwater use within the 1n3e1arest well (may select more than one of the criteria below)

Drinking ☑

3.4.4 Distance to nearest ECA	(select one and mark)
0 to less than 0.5km	☐
0.5 to 1 km	☑
Greater than 1 km	☐

IV. ENVIRONMENTAL PERFORMANCE (FOR EXISTING PROJECTS FOR EXPANSION)

3.4 Compliance (pls. take note that this will be double-checked with PCD files)

Law	Violation (check if any)	Type (pls. specify number of times committed)				Type of Admin Violation	Additional Remarks/Status of Compliance
		STANDARD					
		Emission/Effluent/ Discharge	Ambient	Human Impact	Admin/ ECC		
RA 8749	☐	N/A					PO-2016-POA-D-0453-778
RA 9275	☐	N/A					WDP-DP-R4B-19-04029
RA 6969	☐	N/A					HW- M-GR-4B-53-00447
PD 1586	☐	N/A					
RA 9003	☐	N/A	133				

3.5 Number of Valid Complaints

3.6.2 Others (other Govt. Agencies, Private Institutions) Specify number: 0

(To be filled up by EMB Personnel)

RECOMMENDATION/S:

Assessed By:

Noted By:

ACCOUNTABILITY STATEMENT OF PROJECT PROPONENT (PEMAPS)

I

ACCOUNTABILITY STATEMENT OF PROJECT PROPONENT

This is to certify that all information in the submitted Project Environmental Monitoring and Audit Prioritization Scheme (PEMAPS) Questionaire of SHERIDAN BEACH RESORT AND SPA'S EXPANSION IN LAND AREA AND NEW BUILDING FACILITIES AND RENOVATIONS PROJECT located at SITIO SABANG, BARANGAY CABAYUGAN, PUERTO PRINCESA CITY are true, accurate and complete. Should I learn of any information, which makes this inaccurate, I shall bring said information to the appropriate Environmental Management Bureau Regional Office.

In witness whereof, we hereby set out our hands this JUN 06 2023 day of _____ at CEBU CITY.

ENGR. JOSE MARIANO G. GENCIANA
Project Director

JEFFERSON C. TAN
President

SUBSCRIBED AND SWORN to before me this JUN 06 2023 day of _____ 23 at CEBU CITY. Affiant exhibiting to me his/her Community Tax Certificate No._____ issued on _____.

Doc No. 197
Page No. 70
Book No. 35
Series of 20 23

ATTY. [illegible] BORBAJO

ACCOUNTABILITY STATEMENT OF PROJECT PROPONENT (EPRMP)

ACCOUNTABILITY STATEMENT OF PROJECT PROPONENT

This is to certify that all information in the submitted ENVIRONMENTAL PERFORMANCE REPORT & MANAGEMENT PLAN (EPRMP) of SHERIDAN BEACH RESORT AND SPA'S EXPANSION IN LAND AREA AND NEW BUILDING FACILITIES AND RENOVATIONS PROJECT located at SITIO SABANG, BARANGAY CABAYUGAN, PUERTO PRINCESA CITY are true, accurate and complete. Should I learn of any information, which makes this inaccurate, I shall bring said information to the appropriate Environmental Management Bureau Regional Office.

In witness whereof, we hereby set out our hands this JUN 0 8 2023 day of _____ at _____.

ENGR. JOSE MARIANO G. GENCIANA
Project Director

JEFFERSON C. TAN
President

JUN 0 8 2023

SUBSCRIBED AND SWORN to before me this _____day of _____23 at _____. Affiant exhibiting to me his/her Community Tax Certificate No._____issued on _____.

Doc No. 245
Page No. 50
Book No. 37
Series of 2023

ATTY. [illegible] G. BORBAJO
Notary Public
Until December 31, 2023
IBP No. 264781, January 04, 2023
PTR No. 2251442, January 04, 2023
MCLE No. VII-0018972, Valid Until April 14, 2025

ACCOUNTABILITY STATEMENT OF EIA/EIS PREPARER

ACCOUNTABILITY STATEMENT OF EIA PREPARER

This is to certify that all information in the submitted ENVIRONMENTAL IMPACT ASSESSMENT/ENVIRONMENTAL IMPACT STATEMENT (EIA/EIS) of SHERIDAN BEACH RESORT AND SPA'S EXPANSION IN LAND AREA AND NEW BUILDING FACILITIES AND RENOVATIONS PROJECT, located at SITIO SABANG, BARANGAY CABAYUGAN, PUERTO PRINCESA CITY is true, accurate and complete. Should I learn of any information, which makes this inaccurate, I shall bring said information to the appropriate Environmental Management Bureau Regional Office.

In witness whereof, we hereby set out our hands this JUN 06 2023 day of _____ at _____.

ENGR. EDMUND Y. SEVILLA
EIA Preparer

JEFFERSON C. TAN
President

SUBSCRIBED AND SWORN to before me this JUN 06 2023 day of _____ 23 at _____. Affiant exhibiting to me his/her Community Tax Certificate No._____ issued on _____.

Doc No. 299
Page No. 70
Book No. 85
Series of 2023

ATTY. JO[illegible] BORBAJO
Notary Public for [illegible]
Notarial Commission Series No. 73-15
Until December 31, [illegible]
Roll No. [illegible]
IBP No. 264781, Cebu City, January 01, 2023
PTR No. 2284443, Cebu City, January 01, 2023
MCLE No. VII-0018477, Valid Until April 14, 2025

ACCOUNTABILITY STATEMENT OF PROJECT PROPONENT
(COMMITMENTS IMPLEMENTATION)

ACCOUNTABILITY STATEMENT OF PROJECT PROPONENT

This is to certify that all information and commitments in the submitted ENVIRONMENTAL IMPACT ASSESSMENT/ENVIRONMENTAL IMPACT STATEMENT (EIA/EIS) of SHERIDAN BEACH RESORT AND SPA'S EXPANSION IN LAND AREA AND NEW BUILDING FACILITIES AND RENOVATIONS PROJECT located at SITIO SABANG, BARANGAY CABAYUGAN, PUERTO PRINCESA CITY are true, accurate and complete. Should I learn of any information, which makes this inaccurate, I shall bring said information to the appropriate Environmental Management Bureau Regional Office.

I hereby, further commit to ensure the implementation of all commitments, mitigating measures and monitoring requirements contained in this EIA/EIS.

In witness whereof, we hereby set out our hands this JUN 06 2023 day of _____ at CEBU CITY.

JEFFERSON C. TAN
President

SUBSCRIBED AND SWORN to before me this JUN 06 2023 day of _____23 at CEBU CITY. Affiant exhibiting to me his/her Community Tax Certificate No._____issued on _____.

Doc No. 386
Page No. 51
Book No. 35
Series of 20 23

ATTY. JO[illegible] BORBAJO
Notary Public for [illegible] City
[illegible] No. 73-15
Until December 31, 2023
Roll No. 20883
IBP No. 264791, Cebu City January 03, 2023
PTR No. 2753443, Cebu City, January 04, 2023
MCLE No. VII-0018477, Valid Until April 14, 2025

PROOF OF FINANCIAL CAPABILITY FOR COMPLIANCE

The company is very much capable financially to comply the commitments stipulated the ECC as its authorized capitalization is Php 500,000,000.00, while its subscribed capitalization is Php 200,000,000.00 and its paid-up capital is Php 159,375,000.00 as can be seen in the record in the General Information Sheet document of the Securities and Exchange Commission as shown in the succeeding pages.

SECURITIES AND EXCHANGE COMMISSION
Secretariat Building, PICC Complex, Roxas Boulevard, Pasay City, 1307 Metro Manila Philippines
Tel: (632) 818-0921 Fax: (632) 818-5293 Email: mis@sec.gov.ph

The following document has been received:

Receiving: Mark Anthony Oseña
Receipt Date and Time: January 17, 2023 10:30:44 AM

Company Information

SEC Registration No.: ES95000133
Company Name: JECO DEVELOPMENT CORPORATION DOING BUSINESS UNDER THE NAME AND STYLE OF SHERIDAN BEACH RESORT & SPA; SHERIDAN VILLAS BORACAY AND SHERIDAN BOUTIQUE RESORT OTON
Industry Classification: K70000
Company Type: Stock Corporation

Document Information

Document ID: OST1011720238885115
Document Type: General Information Sheet
Document Code: GIS
Period Covered: December 23, 2022
Submission Type: Annual Meeting
Remarks: None

Acceptance of this document is subject to review of forms and contents

GENERAL INFORMATION SHEET (GIS)

FOR THE YEAR 2022

STOCK CORPORATION

GENERAL INSTRUCTIONS:

1. FOR USER CORPORATION: THIS GIS SHOULD BE SUBMITTED WITHIN THIRTY (30) CALENDAR DAYS FROM THE DATE OF THE ANNUAL STOCKHOLDERS' MEETING. **DO NOT LEAVE ANY ITEM BLANK.** WRITE "N.A." IF THE INFORMATION REQUIRED IS NOT APPLICABLE TO THE CORPORATION OR "NONE" IF THE INFORMATION IS NON-EXISTENT. IF THE ANNUAL STOCKHOLDERS' MEETING IS HELD ON A DATE OTHER THAN THAT STATED IN THE BY-LAWS, THE GIS SHALL BE SUBMITTED WITHIN THIRTY (30) CALENDAR DAYS AFTER THE ELECTION OF THE DIRECTORS, TRUSTEES AND OFFICERS OF THE CORPORATION AT THE ANNUAL MEMBERS' MEETING.
2. IF NO MEETING IS HELD, THE CORPORATION SHALL SUBMIT THE GIS NOT LATER THAN JANUARY 30 OF THE FOLLOWING YEAR. HOWEVER, SHOULD AN ANNUAL STOCKHOLDERS' MEETING BE HELD THEREAFTER, A NEW GIS SHALL BE SUBMITTED/FILED.
3. THIS GIS SHALL BE ACCOMPLISHED IN ENGLISH AND CERTIFIED AND SWORN TO BY THE **CORPORATE SECRETARY** OF THE CORPORATION.
4. THE SEC SHOULD BE TIMELY APPRISED OF RELEVANT CHANGES IN THE SUBMITTED INFORMATION AS THEY ARISE. FOR CHANGES RESULTING FROM ACTIONS THAT AROSE BETWEEN THE ANNUAL MEETINGS, THE CORPORATION SHALL SUBMIT AMENDED GIS CONTAINING THE NEW INFORMATION TOGETHER WITH A COVER LETTER SIGNED THE CORPORATE SECRETARY OF THE CORPORATION. THE AMENDED GIS AND COVER LETTER SHALL BE SUBMITTED WITHIN SEVEN (7) DAYS AFTER SUCH CHANGE OCCURED OR BECAME EFFECTIVE.
5. SUBMIT FOUR (4) COPIES OF THE GIS TO THE RECEIVING SECTION AT THE SEC MAIN OFFICE, OR TO SEC SATELLITE OFFICES OR EXTENSION OFFICES. ALL COPIES SHALL UNIFORMLY BE ON A4 OR LETTER-SIZED PAPER. THE PAGES OF ALL COPIES SHALL USE ONLY ONE SIDE.
6. **ONLY THE GIS ACCOMPLISHED IN ACCORDANCE WITH THESE INSTRUCTIONS SHALL BE CONSIDERED AS HAVING BEEN FILED.**
7. THIS GIS MAY BE USED AS EVIDENCE AGAINST THE CORPORATION AND ITS RESPONSIBLE DIRECTORS/OFFICERS FOR ANY VIOLATION OF EXISTING LAWS, RULES AND REGULATIONS.

---------- PLEASE PRINT LEGIBLY ----------

CORPORATE NAME: JECO DEVELOPMENT CORPORATION	DATE REGISTERED: 4/11/1995
BUSINESS/TRADE NAME: Sheridan Beach Resort & Spa; Sheridan Villas Boracay and Sheridan Boutique Resort Oton	FISCAL YEAR END: DECEMBER 31
SEC REGISTRATION NUMBER: ES095000133	
DATE OF ANNUAL MEETING PER BY-LAWS: FIRST SATURDAY OF DECEMBER	CORPORATE TAX IDENTIFICATION NUMBER (TIN): 005-276-594
ACTUAL DATE OF ANNUAL MEETING: DECEMBER 23, 2022	WEBSITE/URL ADDRESS: N/A
COMPLETE PRINCIPAL OFFICE ADDRESS: Ground Floor, Hyde Tower Pres. Magsaysay St. Extension Brgy. Kasambagan, Cebu City	E-MAIL ADDRESS: N/A
COMPLETE BUSINESS ADDRESS: 503 DELGADO STREET, ILOILO CITY, PHILIPPINES	FAX NUMBER: N/A

OFFICIAL E-MAIL ADDRESS	ALTERNATE E-MAIL ADDRESS	OFFICIAL MOBILE NUMBER	ALTERNATE MOBILE NUMBER
aileen.abejuela@jecodev.com	agabejuela13@gmail.com	0917-7073-917	0906-422-5922

NAME OF EXTERNAL AUDITOR & ITS SIGNING PARTNER:	SEC ACCREDITATION NUMBER (if applicable)	TELEPHONE NUMBER(S):
RAPHAEL D. KING		033-336-1710

PRIMARY PURPOSE/ACTIVITY/INDUSTRY PRESENTLY ENGAGED IN:	INDUSTRY CLASSIFICATION:	GEOGRAPHICAL CODE:
REAL ESTATE.		

---------- INTERCOMPANY AFFILIATIONS ----------

PARENT COMPANY	SEC REGISTRATION NO.	ADDRESS
SUBSIDIARY/AFFILIATE	**SEC REGISTRATION NO.**	**ADDRESS**

NOTE: USE ADDITIONAL SHEET IF NECESSARY

GENERAL INFORMATION SHEET

STOCK CORPORATION

PLEASE PRINT LEGIBLY

Corporate Name: JECO DEVELOPMENT CORPORATION

A. Is the Corporation a covered person under the Anti Money Laundering Act (AMLA), as amended? (Rep. Acts. 9160/9164/10167/10365) ○ Yes ● No

Please check the appropriate box:

1.
- ☐ a. Banks
- ☐ b. Offshore Banking Units
- ☐ c. Quasi-Banks
- ☐ d. Trust Entities
- ☐ e. Non-Stock Savings and Loan Associations
- ☐ f. Pawnshops
- ☐ g. Foreign Exchage Dealers
- ☐ h. Money Changers
- ☐ i. Remittance Agents
- ☐ j. Electronic Money Issuers
- ☐ k. Financial Institutions which Under Special Laws are subject to Bangko Sentral ng Pilipinas' (BSP) supervision and/or regulation, including their subsidiaries and affiliates

2.
- ☐ a. Insurance Companies
- ☐ b. Insurance Agents
- ☐ c. Insurance Brokers
- ☐ d. Professional Reinsurers
- ☐ e. Reinsurance Brokers
- ☐ f. Holding Companies
- ☐ g. Holding Company Systems
- ☐ h. Pre-need Companies
- ☐ i. Mutual Benefit Association
- ☐ j. All Other Persons and entities supervised and/or regulated by the Insurance Commission (IC)

3.
- ☐ a. Securities Dealers
- ☐ b. Securities Brokers
- ☐ c. Securities Salesman
- ☐ d. Investment Houses
- ☐ e. Investment Agents and Consultants
- ☐ f. Trading Advisors
- ☐ g. Other entities managing Securities or rendering similar services
- ☐ h. Mutual Funds or Open-end Investment Companies
- ☐ i. Close-end Investment Companies
- ☐ j. Common Trust Funds or Issuers and other similar entities
- ☐ k. Transfer Companies and other similar entities
- ☐ l. Other entities administering or otherwise dealing in currency, commodities or financial derivatives based there on
- ☐ m. Entities administering of otherwise dealing in valuable objects
- ☐ n. Entities administering or otherwise dealing in cash Substitutes and other similar monetary instruments or property supervised and/or regulated by the Securities and Exchange Commission (SEC)

4. ☐ Jewelry dealers in precious metals, who, as a business, trade in precious metals

5. ☐ Jewelry dealers in precious stones, who, as a business, trade in precious stone

6. Company service providers which, as a business, provide any of the following services to third parties:
- ☐ a. acting as a formation agent of juridical persons
- ☐ b. acting as (or arranging for another person to act as) a director or corporate secretary of a company, a partner of a partnership, or a similar position in relation to other juridical persons
- ☐ c. providing a registered office, business address or accommodation, correspondence or administrative address for a company, a partnership or any other legal person or arrangement
- ☐ d. acting as (or arranging for another person to act as) a nominee shareholder for another person

7. Persons who provide any of the following services:
- ☐ a. managing of client money, securities or other assets
- ☐ b. management of bank, savings or securities accounts
- ☐ c. organization of contributions for the creation, operation or management of companies
- ☐ d. creation, operation or management of juridical persons or arrangements, and buying and selling business entities

8. ☑ None of the above

Describe nature of business: REAL ESTATE.

B. Has the Corporation complied with the requirements on Customer Due Diligence (CDD) or Know Your Customer (KYC), record-keeping, and submission of reports under the AMLA, as amended, since the last filing of its GIS? ○ Yes ● No

GENERAL INFORMATION SHEET

STOCK CORPORATION

PLEASE PRINT LEGIBLY

CORPORATE NAME:	JECO DEVELOPMENT CORPORATION

CAPITAL STRUCTURE

AUTHORIZED CAPITAL STOCK

	TYPE OF SHARES *	NUMBER OF SHARES	PAR/STATED VALUE	AMOUNT (PhP) (No. of shares X Par/Stated Value)
	COMMON	5,000,000	100.00	500,000,000.00
	TOTAL	5,000,000	TOTAL P	500,000,000.00

SUBSCRIBED CAPITAL

FILIPINO	NO. OF STOCK-HOLDERS	TYPE OF SHARES *	NUMBER OF SHARES	NUMBER OF SHARES IN THE HANDS OF THE PUBLIC **	PAR/STATED VALUE	AMOUNT (PhP)	% OF OWNERSHIP
	5	COMMON	2,000,000		100.00	200,000,000.00	100.00
		TOTAL	2,000,000	TOTAL	TOTAL P	200,000,000.00	100.00

FOREIGN (INDICATE BY NATIONALITY)	NO. OF STOCK-HOLDERS	TYPE OF SHARES *	NUMBER OF SHARES	NUMBER OF SHARES IN THE HANDS OF THE PUBLIC **	PAR/STATED VALUE	AMOUNT (PhP)	% OF OWNERSHIP
N/A							
Percentage of Foreign Equity :		TOTAL		TOTAL	TOTAL P		
					TOTAL SUBSCRIBED P	200,000,000.00	100.00

PAID-UP CAPITAL

FILIPINO	NO. OF STOCK-HOLDERS	TYPE OF SHARES *	NUMBER OF SHARES	PAR/STATED VALUE	AMOUNT (PhP)	% OF OWNERSHIP
	5	COMMON	1,593,750	100.00	159,375,000.00	100.00
		TOTAL	1,593,750	TOTAL P	159,375,000.00	100.00

FOREIGN (INDICATE BY NATIONALITY)	NO. OF STOCK-HOLDERS	TYPE OF SHARES *	NUMBER OF SHARES	PAR/STATED VALUE	AMOUNT (PhP)	% OF OWNERSHIP
N/A						
0.00 %		TOTAL		TOTAL P		
				TOTAL PAID-UP P	159,375,000.00	100.00

NOTE: USE ADDITIONAL SHEET IF NECESSARY

* Common, Preferred or other classification

** Other than Directors, Officers, Shareholders owning 10% of outstanding shares.

GENERAL INFORMATION SHEET

STOCK CORPORATION

========== PLEASE PRINT LEGIBLY ==========

CORPORATE NAME: JECO DEVELOPMENT CORPORATION

DIRECTORS / OFFICERS

NAME/CURRENT RESIDENTIAL ADDRESS	NATIONALITY	INC'R	BOARD	GENDER	STOCK HOLDER	OFFICER	EXEC. COMM.	TAX IDENTIFICATION NUMBER
1. JOSEPH T. TAN ZURICH ST., HELVETIA HEIGHTS SUBD., BACOLOD CITY	FILIPINO	Y	C	M	Y	VICE PRESIDENT	N/A	116-191-540
2. CONSUELO S. REAL BRGY. INAGDANGAN NORTE, ZARRAGA, ILOILO CITY	FILIPINO	Y	M	F	Y	DIRECTOR	N/A	143-261-295
3. JACQUELINE T. SAINZ UNIT P1 CEBU BUSINESS PARK, TOWER 2 CEBU CITY	FILIPINO	N	M	F	Y	SECRETARY/TREASURER	N/A	936-590-521
4. JEFFERSON C. TAN UNIT P1 CEBU BUSINESS PARK, TOWER 2 CEBU CITY	FILIPINO	N	M	M	Y	PRESIDENT	N/A	945-529-003
5. HELEN M. TORILLA UNIT E3 LOT 1F, BRGY. GUIZO, MANDAUE CITY CEBU	FILIPINO	Y	M	F	Y	DIRECTOR	N/A	157-187-168
6. NOTHING FOLLOWS								
7.								
8.								
9.								
10.								
11.								
12.								
13.								
14.								
15.								

INSTRUCTION:

FOR SEX COLUMN, PUT "F" FOR FEMALE, "M" FOR MALE.

FOR BOARD COLUMN, PUT "C" FOR CHAIRMAN, "M" FOR MEMBER, "I" FOR INDEPENDENT DIRECTOR.

FOR INC'R COLUMN, PUT "Y" IF AN INCORPORATOR, "N" IF NOT.

FOR STOCKHOLDER COLUMN, PUT "Y" IF A STOCKHOLDER, "N" IF NOT.

FOR OFFICER COLUMN, INDICATE PARTICULAR POSITION IF AN OFFICER, FROM VP UP INCLUDING THE POSITION OF THE TREASURER, SECRETARY, COMPLIANCE OFFICER AND/OR ASSOCIATED PERSON.

FOR EXECUTIVE COMMITTEE, INDICATE "C" IF MEMBER OF THE COMPENSATION COMMITTEE; "A" FOR AUDIT COMMITTEE; "N" FOR NOMINATION AND ELECTION COMMITTEE. ADDITIONALLY, WRITE "C" AFTER SLASH IF CHAIRMAN AND "M" IF MEMBER.

GENERAL INFORMATION SHEET

STOCK CORPORATION

PLEASE PRINT LEGIBLY

CORPORATE NAME:	IECO DEVELOPMENT CORPORATION		
TOTAL NUMBER OF STOCKHOLDERS:	5	NO. OF STOCKHOLDERS WITH 100 OR MORE SHARES E	5
TOTAL ASSETS BASED ON LATEST AUDITED FINANCIAL STATEMENTS:	2,025,961,271.00		

STOCKHOLDER'S INFORMATION

NAME, NATIONALITY AND CURRENT RESIDENTIAL ADDRESS	SHARES SUBSCRIBED				AMOUNT PAID (PhP)	TAX IDENTIFICATION NUMBER
	TYPE	NUMBER	AMOUNT (PhP)	% OF OWNER-SHIP		
1 JOSEPH T. TAN FILIPINO ZURICH ST., HELVETIA HEIGHTS SUBD., BACOLOD CITY	COMMON	581,488	58,148,800.00	29%	54,514,040.00	116-191-540
	TOTAL	581,488	58,148,800.00			
2. JACQUELINE T. SAINZ FILIPINO UNIT P1 CEBU BUSINESS PARK, TOWER 2 CEBU CITY	COMMON	709,131	70,913,100.00	35%	52,417,980.00	936-590-521
	TOTAL	709,131	70,913,100.00			
3. JEFFERSON C. TAN FILIPINO UNIT P1 CEBU BUSINESS PARK, TOWER 2 CEBU CITY	COMMON	709,131	70,913,100.00	35.46%	52,417,980.00	945-529-003
	TOTAL	709,131	70,913,100.00			
4. CONSUELO S. REAL FILIPINO BRGY. INAGDANGAN NORTE, ZARRAGA, ILOILO CITY	COMMON	125	12,500.00	0.01%	12,500.00	143-261-295
	TOTAL	125	12,500.00			
5. HELEN M. TORILLA FILIPINO UNIT E3 LOT 1F, BRGY. GUIZO, MANDAUE CITY CEBU	COMMON	125	12,500.00	0.01%	12,500.00	157-187-160
	TOTAL	125	12,500.00			
6. NOTHING FOLLOWS						
	TOTAL					
7.						
	TOTAL	2,000,000				
TOTAL AMOUNT OF SUBSCRIBED CAPITAL			200,000,000.00	100.00%	159,375,000.00	
TOTAL AMOUNT OF PAID-UP CAPITAL						

INSTRUCTION: SPECIFY THE TOP 20 STOCKHOLDERS AND INDICATE THE REST AS OTHERS

Note: For PDTC Nominee included in the list, please indicate further the beneficial owners owning more than 5% of any class of the company's voting securities. Attach separate sheet, if necessary.

GENERAL INFORMATION SHEET

STOCK CORPORATION

========== PLEASE PRINT LEGIBLY ==========

CORPORATE NAME:	JECO DEVELOPMENT CORPORATION		
TOTAL NUMBER OF STOCKHOLDERS:	5	NO. OF STOCKHOLDERS WITH 100 OR MORE SHARES EACH:	5
TOTAL ASSETS BASED ON LATEST AUDITED FS:	2,025,961,271.00		

STOCKHOLDER'S INFORMATION

NAME, NATIONALITY AND CURRENT RESIDENTIAL ADDRESS	SHARES SUBSCRIBED				AMOUNT PAID (PhP)	TAX IDENTIFCATION NUMBER
	TYPE	NUMBER	AMOUNT (PhP)	% OF OWNER-SHIP		
8. NOTHING FOLLOWS						
	TOTAL					
9.						
	TOTAL					
10.						
	TOTAL					
11.						
	TOTAL					
12.						
	TOTAL					
13.						
	TOTAL					
14.						
	TOTAL					
TOTAL AMOUNT OF SUBSCRIBED CAPITAL				0.00%	0.00	
TOTAL AMOUNT OF PAID-UP CAPITAL						

INSTRUCTION: SPECIFY THE TOP 20 STOCKHOLDERS AND INDICATE THE REST AS OTHERS

Note: For PDTC Nominee included in the list, please indicate further the beneficial owners owning more than 5% of any class of the company's voting securities. Attach separate sheet, if necessary.

GENERAL INFORMATION SHEET

STOCK CORPORATION

========== PLEASE PRINT LEGIBLY ==========

CORPORATE NAME:	JECO DEVELOPMENT CORPORATION		
TOTAL NUMBER OF STOCKHOLDERS:	5	NO. OF STOCKHOLDERS WITH 100 OR MORE SHARES EACH	5
TOTAL ASSETS BASED ON LATEST AUDITED FS:	2,025,961,271.00		

STOCKHOLDER'S INFORMATION

NAME, NATIONALITY AND CURRENT RESIDENTIAL ADDRESS	SHARES SUBSCRIBED				AMOUNT PAID (PhP)	TAX IDENTIFICATION NUMBER
	TYPE	NUMBER	AMOUNT (PhP)	% OF OWNER-SHIP		
15. NOTHING FOLLOWS						
	TOTAL					
16.						
	TOTAL					
17.						
	TOTAL					
18.						
	TOTAL					
19.						
	TOTAL					
20.						
	TOTAL					
21. OTHERS (Indicate the number of the remaining stockholders)						
	TOTAL					
TOTAL AMOUNT OF SUBSCRIBED CAPITAL				0.00%	0.00	
TOTAL AMOUNT OF PAID-UP CAPITAL						

INSTRUCTION: SPECIFY THE TOP 20 STOCKHOLDERS AND INDICATE THE REST AS OTHERS

Note: *For PDTC Nominee included in the list, please indicate further the beneficial owners owning more than 5% of any class of the company's voting securities. Attach separate sheet, if necessary.*

GENERAL INFORMATION SHEET

STOCK CORPORATION

PLEASE PRINT LEGIBLY

CORPORATE NAME: JECO DEVELOPMENT CORPORATION

1. INVESTMENT OF CORPORATE FUNDS IN ANOTHER CORPORATION	AMOUNT (PhP)	DATE OF BOARD RESOLUTION
1.1 STOCKS	N/A	
1.2 BONDS/COMMERCIAL PAPER (Issued by Private Corporations)	N/A	
1.3 LOANS/ CREDITS/ ADVANCES	N/A	
1.4 GOVERNMENT TREASURY BILLS	N/A	
1.5 OTHERS	N/A	

2. INVESTMENT OF CORPORATE FUNDS IN ACTIVITIES UNDER ITS SECONDARY PURPOSES (PLEASE SPECIFY:)	DATE OF BOARD RESOLUTION	DATE OF STOCKHOLDERS RATIFICATION
N/A		

3. TREASURY SHARES: N/A	NO. OF SHARES	% AS TO THE TOTAL NO. OF SHARES ISSUED

4. UNRESTRICTED/UNAPPROPRIATED RETAINED EARNINGS AS OF END OF LAST FISCAL YEAR: (192,463,818)

5. DIVIDENDS DECLARED DURING THE IMMEDIATELY PRECEDING YEAR: N/A

TYPE OF DIVIDEND	AMOUNT (PhP)	DATE DECLARED
5.1 CASH	N/A	
5.2 STOCK	N/A	
5.3 PROPERTY	N/A	
TOTAL	P	

6. ADDITIONAL SHARES ISSUED DURING THE PERIOD:

DATE	NO. OF SHARES	AMOUNT

SECONDARY LICENSE/REGISTRATION WITH SEC AND OTHER GOV'T AGENCY: N/A

NAME OF AGENCY:	SEC	B S P	I C
TYPE OF LICENSE/REGN.			
DATE ISSUED:			
DATE STARTED OPERATIONS:			

TOTAL ANNUAL COMPENSATION OF DIRECTORS DURING THE PRECEDING FISCAL YEAR (in PhP)	TOTAL NO. OF OFFICERS	TOTAL NO. OF RANK & FILE EMPLOYEES	TOTAL MANPOWER COMPLEMENT
N/A	N/A	N/A	N/A

NOTE: USE ADDITIONAL SHEET IF NECESSARY

I, JACQUELINE C. TAN - SAINZ, Corporate Secretary of JECO DEVELOPMENT CORPORATION declare under penalty of perjury that all matters set forth in this GIS have been made in good faith, duly verified by me and to the best of my knowledge and belief are true and correct.

I hereby attest that all the information in this GIS are being submitted in compliance with the rules and regulations of the Securities and Exchange Commission (SEC) the collection, processing, storage and sharing of said information being necessary to carry out the functions of public authority for the performance of the constitutionally and statutorily mandated functions of the SEC as a regulatory agency.

I further attest that I have been authorized by the Board of Directors/Trustees to file this GIS with the SEC.

I understand that the Commission may place the corporation under delinquent status for failure to submit the reportorial requirements three (3) times, consecutively or intermittently, within a period of five (5) years (*Section 177, RA No. 11232*).

JAN 1 6 2023

Done this _____ day of _____, 20 ___ in BACOLOD CITY.

JACQUELINE T. SAINZ
(Signature over printed name)

BACOLOD CITY

SUBSCRIBED AND SWORN TO before me in _____ on JAN 1 6 2023 by affiant who personally appeared before me and exhibited to me his/her competent evidence of identity consisting of _____ issued at _____ on _____.

TIN# 936-590-521

DOC. NO. 4
PAGE NO. 4
BOOK NO. 1
SERIES OF 2023

ATTY. MATEO A. VALENZUELA
NOTARY-PUBLIC
Admission Serial No. 009-24
NOTARY PUBLIC
For the Cities of Bacolod City and Talisay
and the Municipalities of Murcia and Salvador
Benedicto, Negros Occidental, until Dec. 31, 2024
Rm. 210 Yusay Bldg., Araneta Street, Bacolod City
Roll No. 17846, PTR No. 9077408 issued at
Bacolod City, on 1/3/2023-IBP No. 247441
Sept. 8, 2022 - Tin No. 113-645-185-000
MCLE Compliance No. VI-0008776-05-23-2018
Tel No. 434-6213

BENEFICIAL OWNERSHIP DECLARATION
FOR THE YEAR: 2022

SEC REGISTRATION NUMBER: ES095000133
CORPORATE NAME: JECO DEVELOPMENT CORPORATION

Instructions:

1. Identify the Beneficial Owner/s of the corporation as described in the Categories of Beneficial Ownership in items A to I below. List down as many as you can identify. You may use an additional sheet if necessary.
2. Fill in the required information on the beneficial owner in the fields provided for.
3. In the "Category of Beneficial Ownership" column, indicate the letter(s) corresponding thereto. In the event that the person identified as beneficial owner falls under several categories, indicate all the letters corresponding to such categories.
4. If the category is under letter "I", indicate the position held (i.e., Director/Trustee, President, Chief Executive Officer, Chief Operating Officer, Chief Financial Officer, etc.).
5. Do not leave any item blank. Write "N/A" if the information required is not applicable or "NONE" if non-existent.

"**Beneficial Owner**" refers to any natural person(s) who ultimately own(s) or control(s) or exercise(s) ultimate effective control over the corporation. This definition covers the natural person(s) who actually own or control the corporation as distinguished from the legal owners. Such beneficial ownership may be determined on the basis of the following:

Category	Description
A	Natural person(s) owning, directly or indirectly or through a chain of ownership, at least twenty-five percent (25%) of the voting rights, voting shares or capital of the reporting corporation.
B	Natural person(s) who exercise control over the reporting corporation, alone or together with others, through any contract, understanding, relationship, intermediary or tiered entity.
C	Natural person(s) having the ability to elect a majority of the board of directors/trustees, or any similar body, of the corporation.
D	Natural person(s) having the ability to exert a dominant influence over the management or policies of the corporation.
E	Natural person(s) whose directions, instructions, or wishes in conducting the affairs of the corporation are carried out by majority of the members of the board of directors of such corporation who are accustomed or under an obligation to act in accordance with such person's directions, instructions or wishes.
F	Natural person(s) acting as stewards of the properties of corporations, where such properties are under the care or administration of said natural person(s).
G	Natural person(s) who actually own or control the reporting corporation through nominee shareholders or nominee directors acting for or on behalf of such natural persons.
H	Natural person(s) ultimately owning or controlling or exercising ultimate effective control over the corporation through other means not falling under any of the foregoing categories.
I	Natural person(s) exercising control through positions held within a corporation (i.e., responsible for strategic decisions that fundamentally affect the business practices or general direction of the corporation such as the members of the board of directors or trustees or similar body within the corporation; or exercising executive control over the daily or regular affairs of the corporation through a senior management position). This category is only applicable in exceptional cases where no natural person is identifiable who ultimately owns or exerts control over the corporation, the reporting corporation having exhausted all reasonable means of identification and provided there are no grounds for suspicion.

COMPLETE NAME (Surname, Given Name, Middle Name, Name Extension (i.e., Jr., Sr., III))	SPECIFIC RESIDENTIAL ADDRESS	NATIONALITY	DATE OF BIRTH	TAX IDENTIFICATION NO.	% OF OWNERSHIP[1] / % OF VOTING RIGHTS[2]	TYPE OF BENEFICIAL OWNER[3] Direct (D) or Indirect (I)	CATEGORY OF BENEFICIAL OWNERSHIP
JOSEPH T. TAN	ZURICH ST., HELVETIA HEIGHTS SUBD., BACOLOD CITY	FILIPINO	FEB. 21, 1951	116-191-640	36.55%	D	A,B,C,D,E
JACQUELINE T. SAINZ	UNIT P1 CEBU BUSINESS PARK, TOWER 2 CEBU CITY	FILIPINO	APRIL 16, 1986	936-590-521	31.71%	D	A,B,C,D,E
JEFFERSON C. TAN	UNIT P1 CEBU BUSINESS PARK, TOWER 2 CEBU CITY	FILIPINO	OCT. 10, 1989	945-529-003	31.71%	D	A,B,C,D,E
NOTHING FOLLOWS							

Note: This page is not for uploading on the SEC iView

[1] For Stock Corporations.
[2] For Non-Stock Corporations.
[3] For Stock Corporations.

Republic of the Philippines
OFFICE OF THE CITY PLANNING
AND DEVELOPMENT COORDINATOR
City of Puerto Princesa

City Hall Building, Sta. Monica, Puerto Princesa City Tel. No. 433-2183

CERTIFICATION

THIS IS TO CERTIFY that under the Official Zoning Map of the City of Puerto Princesa, the land described as Lot 20779, Cad-800-D embraced by **TCT No. 168988** containing an area of **26,948** square meters, situated in Sitio Sabang, Barangay Cabayugan, this City is within the **SPECIAL DEVELOPMENT AREAS (SDA).**

This certifies further that the proposed **"Beach Resort with convention hall"** may be allowed within the areas, provided, however that the minimum requirements, design and development standards set under Sabang Master Plan including other related laws be met and complied with. Further, the said project shall have PAMB and DCC clearances prior to the application for a building permit and commencement of development.

Given this 26th day of March 2007 at the City of Puerto Princesa upon request of the **JECO DEVELOPMENT CORPORATION** c/o Mr. Joseph Tan for whatever legal purposes it may serve best.

GEORGE G. VASQUEZ
Asst. City Planning and Dev't Coordinator

Certification Fee : P 250.00
O.R. No. 0128630
Issued on 26 March 2007
Issued at PP City

Annex | 20.00

Republic of the Philippines
City of Puerto Princesa
Barangay Cabayugan
OFFICE OF THE PUNONG BARANGAY

BARANGAYBUSINESS CLEARANCE

TO WHOM IT MAY CONCERN:

THIS IS TO CERTIFY that the Business or Trade activity describe below:

SHERIDAN BEACH RESORT & SPA
(Name of Business or Trade Activity)

Purok Dalampasigan I, Sitio Sabang, Barangay Cabayugan
(Location)

JECO DEVELOPMENT CORPORATION
(Name of Operator/Manager)

PUERTO PRINCESA CITY
(Address of Operator/Manager)

Applicant is hereby granted to operate business with the condition that said business must comply and advised to follow strictly on the laws as provided for the city, any part shall be used as extension thru existing ordinance in relation with the conduct of his/her business. Violation of the same is a ground for the revocation of this Clearance.

JECO DEVELOPMENT CORPORATION
(Name and Signature of Applicant)

Approved by:

HON. ROLLY V. FRANCIA
Punong Barangay
Barangay Cabayugan

CABAYUGAN OFFICIALS BARANGAY 2018-2020

HON. ROLLY V. FRANCIA
PUNONG BARANGAY

Barangay Kagawad:

HON. JERRY A. AUSAN	HON.EDWIN M. PAMINTUAN	HON. FELIBERTO M. CAÑEDO
HON. RICKY A. SERNA	HON.ELGIN P. LAMASAN	HON. NOEL T. CACHO
	HON. REYNALDO C. DADORES	
IPMR		SK CHAIRMAN
HON.RODOLFO F. RODRIGO		HON. ROCKY C. ONRADA
MR. HEYZON L. MARU		MS. ARLENE C. CORPUZ
Barangay Secretary		Barangay Treasurer

Attached Wastewater Analysis Result

ENVIRONMENTAL-HEALTH
LABORATORY SERVICES COOPERATIVE
50 Holy Spirit Drive, Don Antonio Heights, Quezon City
Tel No.: 428-2698 • 986-6110 • 666-2984 • Telefax: 931-0838
Mobile No.: (0923) 3639629
"Your Partner in Quality"

MICROBIOLOGICAL TEST RESULT

Invoice # 106711
TR # 1914977
SR # 19028343
Date Issued :March 02, 2019

Sheridan Beach & Mountain Resort
Sitio Sabang, Brgy. Cabayugan, Palawan
Contact Person / Attention : Sheridan Beach & Mountain Resort

Sample Description / Source : *DeepWellWater / Faucet - Main Source*

Date/Time Received by Laboratory: *February 27, 2019 03:53 PM*
Date/Time Tested : *February 27, 2019 04:10 PM*

Test	Unit	Method of Analysis	Results	PNSDW* Standards	Remarks
Total Coliform	MPN/100 mL	Multiple Tube Fermentation Technique	less than 1.1	less than 1.1	**PASSED**
Fecal Coliform	MPN/100 mL	Multiple Tube Fermentation Technique	less than 1.1	less than 1.1	**PASSED**

Note: Test result applies only to the sample submitted to the laboratory for analysis.

Reference : Standard Methods for the Examination of Water & Wastewater, American Public Health Association, American Water Works Association, 22nd ed., 2012
*Philippine National Standards for Drinking Water - 2017

This test report shall not be reproduced except in full, without written approval of the laboratory.

Jan Alexine B. Tan, RMT 73602
Microbiologist

Marilou I. Sumera, RCh 04041
Laboratory Head ATEL-2-0216-294A

ENVIRONMENTAL-HEALTH
LABORATORY SERVICES COOPERATIVE
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MICROBIOLOGICAL TEST RESULT

Invoice # 106711
TR # 1914978
SR # 19028344
Date Issued :March 02, 2019

Sheridan Beach & Mountain Resort
Sitio Sabang, Brgy. Cabayugan, Palawan
Contact Person /Attention : Sheridan Beach & Mountain Resort

Sample Description / Source : *DeepWellWater / Faucet - Product*

Date/Time Received by Laboratory: *February 27, 2019 03:53 PM*
Date/Time Tested : *February 27, 2019 04:10 PM*

Test	Unit	Method of Analysis	Results	PNSDW* Standards	Remarks
Total Coliform	MPN/100 mL	Multiple Tube Fermentation Technique	less than 1.1	less than 1.1	**PASSED**
Fecal Coliform	MPN/100 mL	Multiple Tube Fermentation Technique	less than 1.1	less than 1.1	**PASSED**

Note: Test result applies only to the sample submitted to the laboratory for analysis.

Reference : Standard Methods for the Examination of Water & Wastewater, American Public Health Association, American Water Works Association, 22nd ed., 2012
*Philippine National Standards for Drinking Water - 2017

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MICROBIOLOGICAL TEST RESULT

Invoice # 106711
TR # 1914979
SR # 19028345
Date Issued :March 02, 2019

Sheridan Beach & Mountain Resort
Sitio Sabang, Brgy. Cabayugan, Palawan
Contact Person / Attention : Sheridan Beach & Mountain Resort

Sample Description / Source : *DeepWellWater / Faucet - Room*

Date/Time Received by Laboratory: *February 27, 2019 03:53 PM*
Date/Time Tested : *February 27, 2019 04:10 PM*

Test	Unit	Method of Analysis	Results	PNSDW* Standards	Remarks
Total Coliform	MPN/100 mL	Multiple Tube Fermentation Technique	less than 1.1	less than 1.1	**PASSED**
Fecal Coliform	MPN/100 mL	Multiple Tube Fermentation Technique	less than 1.1	less than 1.1	**PASSED**

Note: Test result applies only to the sample submitted to the laboratory for analysis.

Reference : Standard Methods for the Examination of Water & Wastewater, American Public Health Association American Water Works Association, 22nd ed., 2012
*Philippine National Standards for Drinking Water - 2017

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ENVIRONMENTAL-HEALTH
LABORATORY SERVICES COOPERATIVE
50 Holy Spirit Drive, Don Antonio Heights, Quezon City
Tel No.: 428 2698 • 986 6110 • 666 2984 • Telefax: 931 0838
Mobile No.: (0923) 3639629
"Your Partner in Quality"

MICROBIOLOGICAL TEST RESULT

Invoice # 106711
TR # 1914980
SR # 19028346
Date Issued :March 02, 2019

Sheridan Beach & Mountain Resort
Sitio Sabang, Brgy. Cabayugan, Palawan
Contact Person / Attention : Sheridan Beach & Mountain Resort

Sample Description / Source : *DeepWellWater / Faucet - Kitchen*

Date/Time Received by Laboratory *February 27, 2019 03:53 PM*
Date/Time Tested : *February 27, 2019 04:10 PM*

Test	Unit	Method of Analysis	Results	PNSDW* Standards	Remarks
Total Coliform	MPN/100 mL	Multiple Tube Fermentation Technique	less than 1.1	less than 1.1	**PASSED**
Fecal Coliform	MPN/100 mL	Multiple Tube Fermentation Technique	less than 1.1	less than 1.1	**PASSED**

Note: Test result applies only to the sample submitted to the laboratory for analysis

Reference : Standard Methods for the Examination of Water & Wastewater, American Public Health Association, American Water Works Association, 22nd ed., 2012
*Philippine National Standards for Drinking Water - 2017

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Microbiologist

Marilou I. Sumera, RCh 04041
Laboratory Head ATEL-2-0216-294A

Sr. Req

ENVIRONMENTAL-HEALTH LABORATORY SERVICES COOPERATIVE

50 Holy Spirit Drive, Don Antonio Heights, Quezon City
Tel No.: 428-2698 • 666-2984 • Telefax: 931-0838
Mobile No.: (0923) 3639629 / (0922) 8606434
"Your Partner in Quality"

PAB ACCREDITED TESTING LABORATORY
PNS ISO/IEC 17025:2005
LA-2016-294A

PHYSICAL / CHEMICAL TEST RESULT

Sheridan Beach & Mountain Resort
Sitio Sabang, Brgy. Cabayugan, Palawan
Contact Person / Attention : Sheridan Beach & Mountain Resort

Invoice # 106711
TR # 1914968
SR # 19028333
Date Issued :March 20, 2019

Sample Description / Source : *DeepWellWater / Faucet - Kitchen*

Date/Time Received by Laboratory : *February 27, 2019 / 03:53 PM*
Date/Time Analyzed : *March 05, 2019 / 10:00 AM*

Parameters	Unit	Method of Analysis[a]	Results	PNSDW[b] Standards	Remarks
Physical					
Color	CU	2120 Visual Comparison-Chloroplatinate	6	10	**PASSED**
Odor*	-	2150 Thershold Odor Test	unobjectionable	unobjectionable	**PASSED**
Turbidity	NTU	2130 Nephelometric	0.3	5	**PASSED**
Chemical					
pH @ 25.0 °C	-	4500-H+ Electrometric	7.3	6.5-8.5**	**PASSED**
Total Hardness	mg/L	2340 EDTA Titrimetric	312	300	**FAILED**
Sodium	mg/L	3111 Flame Atomic Absorption Spectrometry	22.1	200	**PASSED**
Chloride	mg/L	4500-Cl- Potentiometric	33.2	250	**PASSED**
Sulfate	mg/L	4500-SO4-2- Turbidimetric	9.5	250	**PASSED**
Iron	mg/L	3111 Flame Atomic Absorption Spectrometry	ND(MDL=0.05)	1.0	**PASSED**
Manganese	mg/L	3111 Flame Atomic Absorption Spectrometry	ND(MDL=0.01)	0.4	**PASSED**
Zinc	mg/L	3111 Flame Atomic Absorption Spectrometry	ND(MDL=0.03)	5.0	**PASSED**
Copper	mg/L	3111 Flame Atomic Absorption Spectrometry	ND(MDL=0.01)	1.0	**PASSED**
Aluminum	mg/L	3113 Electrothermal Atomic Absorption Spec	0.009	0.2	**PASSED**
Hydrogen Sulfide*	mg/L	4500-S2- Ion Selective Electrode	ND(MDL=0.003)	0.05	**PASSED**
Total Dissolved Solids	mg/L	2540 Gravimetric	376	600**	**PASSED**

Note: Test result applies only to the sample submitted to this laboratory for analysis.
This test report shall not be reproduced except in full, without the written approval of the laboratory.

ND - Not Detected, MDL - Method Detection Limit
* Not PAB accredited
** Limit applies only to sample description presented above.

References:
a Standard Methods for the Examination of Water & Wastewater, American Public Health Association, American Water Works Association, 22nd ed. 2012
b Philippines National Standards for Drinking Water - 2017

Aileen C. Filipino, RCh 0013117
Chemist

Mark P. Teran, RChT 0000906
Chem. Lab. Supervisor

Marilou I. Sumera, RCh 04041
Laboratory Head

ENVIRONMENTAL-HEALTH
LABORATORY SERVICES COOPERATIVE
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Mobile No.: (0923) 3639629
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MICROBIOLOGICAL TEST RESULT

Invoice # 147233
TR # 1981401
SR # 19117239
Date Issued :November 26, 2019

Sheridan Beach & Mountain Resort
Sitio Sabang, Brgy. Cabayugan, Palawan
Contact Person / Attention : Sheridan Beach & Mountain Resort

Sample Description / Source : *DeepWellWater / Faucet - Raw Water*

Date/Time Received by Laboratory: *November 22, 2019 07:39 PM*
Date/Time Tested : *November 22, 2019 07:52 PM*

Test	Unit	Method of Analysis	Results	PNSDW* Standards	Remarks
Total Coliform	per 100mL	Enzyme Substrate Coliform Test	Absent	Absent	**PASSED**
Escherichia coli	per 100mL	Enzyme Substrate Coliform Test	Absent	Absent	**PASSED**

Note: Test result applies only to the sample submitted to the laboratory for analysis.

Reference : Standard Methods for the Examination of Water & Wastewater, American Public Health Association, American Water Works Association, 22nd ed., 2012
*Philippine National Standards for Drinking Water - 2017

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Jan Alexine B. Tan, RMT 73602
Microbiologist

Marilou I. Sumera, RCh 04041
Laboratory Head ATEL-2-0216-294A

ENVIRONMENTAL-HEALTH
LABORATORY SERVICES COOPERATIVE
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MICROBIOLOGICAL TEST RESULT

Invoice # 147233
TR # 1981401
SR # 19117239
Date Issued :November 26, 2019

Sheridan Beach & Mountain Resort
Sitio Sabang, Brgy. Cabayugan, Palawan
Contact Person / Attention : Sheridan Beach & Mountain Resort

Sample Description / Source : *DeepWellWater / Faucet - Raw Water*

Date/Time Received by Laboratory: *November 22, 2019 07:39 PM*
Date/Time Tested : *November 22, 2019 07:52 PM*

Test	Unit	Method of Analysis	Results	PNSDW* Standards	Remarks
Total Coliform	per 100mL	Enzyme Substrate Coliform Test	Absent	Absent	**PASSED**
Escherichia coli	per 100mL	Enzyme Substrate Coliform Test	Absent	Absent	**PASSED**

Note: Test result applies only to the sample submitted to the laboratory for analysis.

Reference : Standard Methods for the Examination of Water & Wastewater, American Public Health Association, American Water Works Association, 22nd ed., 2012
*Philippine National Standards for Drinking Water - 2017

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"Your Partner in Quality"

MICROBIOLOGICAL TEST RESULT

Invoice # 147233
TR # 1981400
SR # 19117238
Date Issued :November 26, 2019

Sheridan Beach & Mountain Resort
Sitio Sabang, Brgy. Cabayugan, Palawan
Contact Person /.Attention : Sheridan Beach & Mountain Resort

Sample Description / Source : *DeepWellWater / Faucet - Kitchen*

Date/Time Received by Laboratory: *November 22, 2019 07:39 PM*
Date/Time Tested : *November 22, 2019 07:52 PM*

Test	Unit	Method of Analysis	Results	PNSDW* Standards	Remarks
Total Coliform	per 100mL	Enzyme Substrate Coliform Test	Absent	Absent	**PASSED**
Escherichia coli	per 100mL	Enzyme Substrate Coliform Test	Absent	Absent	**PASSED**

Note: Test result applies only to the sample submitted to the laboratory for analysis.

Reference : Standard Methods for the Examination of Water & Wastewater, American Public Health Association, American Water Works Association, 22nd ed., 2012
*Philippine National Standards for Drinking Water - 2017

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Jan Alexine B. Tan, RMT 73602
Microbiologist

Marilou I. Sumera, RCh 04041
Laboratory Head ATEL-2-0216-294A

ENVIRONMENTAL-HEALTH LABORATORY SERVICES COOPERATIVE
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MICROBIOLOGICAL TEST RESULT

Invoice # 147233
TR # 1981399
SR # 19117236
Date Issued: November 26, 2019

Sheridan Beach & Mountain Resort
Sitio Sabang, Brgy. Cabayugan, Palawan
Contact Person / Attention: Sheridan Beach & Mountain Resort

Sample Description / Source : *Deepwell / Others - Swimming Pool*
Date / Time Collected :
Date / Time Received by the Laboratory: *November 22, 2019 / 07:39 PM*
Date / Time Tested : *November 22, 2019 / 07:52 PM*

TEST	UNIT	METHOD OF ANALYSIS	RESULTS	STANDARDS**	REMARKS
Total Coliform	per 100 mL	Enzyme Substrate Coliform Test	Absent	Absent	**PASSED**
Escherichia coli	per 100 mL	Enzyme Substrate Coliform Test	Absent	Absent	**PASSED**

Note: Test result applies only to the sample submitted to this laboratory for analysis.
ND-Not detected, MDL - Method Detection Limit
****Limit applies only to sample description printed above.
References:
*Standard Methods for the Examination of Water & Wastewater, American Public Health Association, American Water Works Association, 22nd ed., 2012
**Implementing Rules and Regulations of Chapter VIII of the Code on Sanitation of the Philippines, P.D. 856
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Jan Alexine B. Tan, RMT 73602
Microbiologist

Marilou I. Sumera, RCh 04041
Laboratory Head ATEL-2-0216-294A

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LABORATORY SERVICES COOPERATIVE
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Mobile No.: (0923) 3639629
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MICROBIOLOGICAL TEST RESULT

Invoice # 147233
TR # 1981398
SR # 19117235
Date Issued :November 26, 2019

Sheridan Beach & Mountain Resort
Sitio Sabang, Brgy. Cabayugan, Palawan
Contact Person / Attention : Sheridan Beach & Mountain Resort

Sample Description / Source : *DeepWellWater / Faucet - Room*

Date/Time Received by Laboratory: *November 22, 2019 07:39 PM*
Date/Time Tested : *November 22, 2019 07:52 PM*

Test	Unit	Method of Analysis	Results	PNSDW* Standards	Remarks
Total Coliform	per 100mL	Enzyme Substrate Coliform Test	Absent	Absent	**PASSED**
Escherichia coli	per 100mL	Enzyme Substrate Coliform Test	Absent	Absent	**PASSED**

Note: Test result applies only to the sample submitted to the laboratory for analysis.

Reference : Standard Methods for the Examination of Water & Wastewater, American Public Health Association, American Water Works Association, 22nd ed., 2012
*Philippine National Standards for Drinking Water - 2017

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Jan Alexine B. Tan, RMT 73602
Microbiologist

Marilou I. Sumera, RCh 04041
Laboratory Head ATEL-2-0216-294A

ENVIRONMENTAL-HEALTH
LABORATORY SERVICES COOPERATIVE
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Mobile No.: (0923) 3639629
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MICROBIOLOGICAL TEST RESULT

Invoice # 147233
TR # 1981397
SR # 19117234
Date Issued :November 26, 2019

Sheridan Beach & Mountain Resort
Sitio Sabang, Brgy. Cabayugan, Palawan
Contact Person / Attention : Sheridan Beach & Mountain Resort

Sample Description / Source : *DeepWellWater / Faucet - Blue Bar*

Date/Time Received by Laboratory: *November 22, 2019 07:39 PM*
Date/Time Tested : *November 22, 2019 07:52 PM*

Test	Unit	Method of Analysis	Results	PNSDW* Standards	Remarks
Total Coliform	per 100mL	Enzyme Substrate Coliform Test	Absent	Absent	**PASSED**
Escherichia coli	per 100mL	Enzyme Substrate Coliform Test	Absent	Absent	**PASSED**

Note: Test result applies only to the sample submitted to the laboratory for analysis.

Reference : Standard Methods for the Examination of Water & Wastewater, American Public Health Association, American Water Works Association. 22nd ed., 2012
*Philippine National Standards for Drinking Water - 2017

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Jan Alexine B. Tan, RMT 73602
Microbiologist

Marilou I. Sumera, RCh 04041
Laboratory Head ATEL-2-0216-294A

ENVIRONMENTAL-HEALTH
LABORATORY SERVICES COOPERATIVE
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Mobile No.: (0923) 3639629
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MICROBIOLOGICAL TEST RESULT

Invoice # 147233
TR # 1981396
SR # 19117233
Date Issued :November 26, 2019

Sheridan Beach & Mountain Resort
Sitio Sabang, Brgy. Cabayugan, Palawan
Contact Person / Attention : Sheridan Beach & Mountain Resort

Sample Description / Source : *DeepWellWater / Faucet - Product*

Date/Time Received by Laboratory: *November 22, 2019 07:39 PM*
Date/Time Tested : *November 22, 2019 07:52 PM*

Test	Unit	Method of Analysis	Results	PNSDW* Standards	Remarks
Total Coliform	per 100mL	Enzyme Substrate Coliform Test	Absent	Absent	**PASSED**
Escherichia coli	per 100mL	Enzyme Substrate Coliform Test	Absent	Absent	**PASSED**

Note: Test result applies only to the sample submitted to the laboratory for analysis.

Reference : Standard Methods for the Examination of Water & Wastewater, American Public Health Association, American Water Works Association, 22nd ed., 2012
*Philippine National Standards for Drinking Water - 2017

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Jan Alexine B. Tan, RMT 73602
Microbiologist

Marilou I. Sumera, RCh 04041
Laboratory Head ATEL-2-0216-294A

ENVIRONMENTAL-HEALTH LABORATORY SERVICES COOPERATIVE
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Tel No.: 428-2698 • 986-6110 • 666-2984 • Telefax: 931-0838
Mobile No.: (0923) 3639629
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MICROBIOLOGICAL TEST RESULT

Invoice # 147233
TR # 1981399
SR # 19117237
Date Issued: November 26, 2019

Sheridan Beach & Mountain Resort
Sitio Sabang, Brgy. Cabayuagan, Palawan
Contact Person / Attention: Sheridan Beach & Mountain Resort

Sample Description / Source : *Deep Well / Others – Swimming Pool*
Date / Time Collected :
Date / Time Received by the Laboratory: *November 22, 2019 / 07:39 PM*
Date / Time Tested : *November 23, 2019 / 02:30 PM*

Parameters	Unit	Method of Detection	Results	Standards	Remarks
Chemical					
Alkalinity*	mg/L	2320 Titration	-	-	-
Residual Chlorine*	mg/L	4500-Cl⁻ DPD Ferrous Titrimetric	0	0.5-1.0**	-

Note: Test result applies only to the sample submitted to this laboratory for analysis.
ND-Not detected, MDL - Method Detection Limit
****Limit applies only to sample description printed above.
References:
*Standard Methods for the Examination of Water & Wastewater, American Public Health Association, American Water Works Association, 22nd ed., 2012
**Implementing Rules and Regulations of Chapter VIII of the Code on Sanitation of the Philippines, P.D. 856
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Aileen C. Filipino, RCh 0013117
Chemist

Mark P. Teran, RChT 0000906
Chemical Laboratory Supervisor

Marilou I. Sumera, Chem. 04041
Laboratory Head

Attached Hazardous Waste Generator ID

Department of Environment and Natural Resources
Environmental Management Bureau
MIMAROPA Region

HW GENERATOR REGISTRATION CERTIFICATE

Pursuant to Chapter 3 of DENR Administrative Order (DAO) No. 2013-22, the Implementing Rules and Regulations of Republic Act (RA) 6969, this Certificate is issued to:

Name of Generator : **SHERIDAN RESORT AND SPA**

Facility Address : SITIO SABANG, BRGY. CABAYUGAN, PUERTO PRINCESA, PALAWAN

You are hereby assigned with the new ***Manual Registration no***:

M - GR - 4B - 53 - 00447

This certifies that the above-named Hazardous waste Generator generates the following types of wastes:

Waste Class	Waste Number
Lead Compounds	D406
Mercury and mercury compounds	D407
Used industrial oil including sludge	I101
Vegetable oil including sludge	I102
Oil-contaminated materials	I104
Grease trap waste	H802
Containers previously containing toxic chemical substances	J201
Waste electrical and electronic equipment	M506

1. The above-named HW Generator shall comply with all the requirements of R.A. 6969, its Implementing Rules and Regulations and the Procedural Manual for Hazardous Wastes Management.

2. Submission of duly notarized self-monitoring report shall be made within fifteen (15) days after the end of every period using prescribed format.

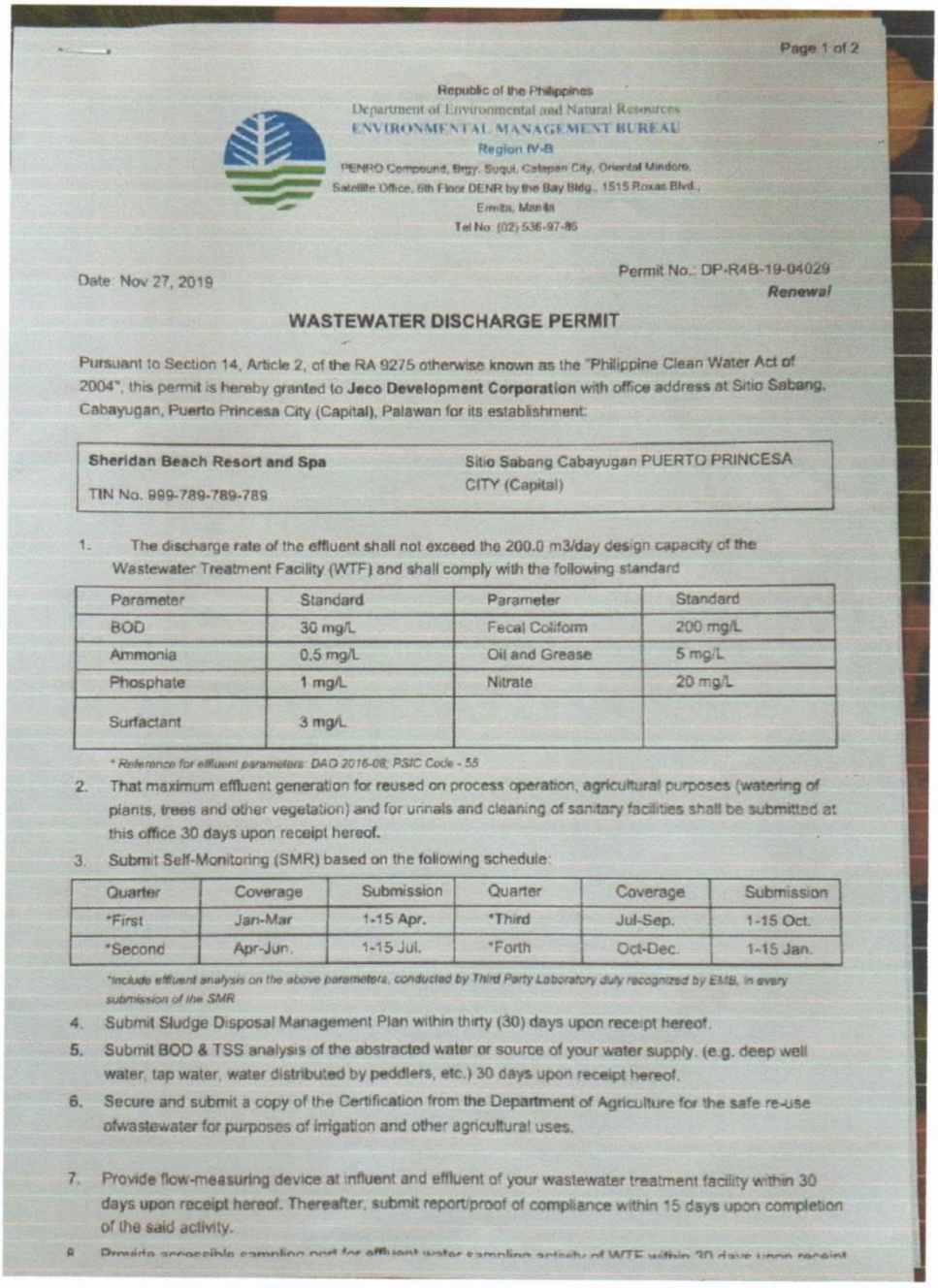
3. Please refer to this number whenever you make transactions with EMB on matters pertaining to R.A. 6969.

AUTHORIZED SIGNATURE :
AUTHORIZED NAME : ATTY. MICHAEL DRAKE P. MATIAS
DESIGNATION : Regional Director
DATE : NOV 25 2019

Department of Environment and Natural Resources
Environmental Management Bureau
Regional Office No. IV - B MIMAROPA
25 NOV 2019 HWRDMATIAS03886

PENRO Compound, Brgy. Suqui, Calapan City, Oriental Mindoro
Satellite Office; 6th Floor DENR by the Bay Bldg., 1515 Roxas Blvd., Ermita, Manila
Regional Director's Office (02) 536-9786; Administrative and Finance Division Telefax No. (02) 400-5960
Environmental Monitoring and Enforcement Division (02) 521-8904; Clearance and Permitting Division Telefax. (02) 400-5960
E-mail Address: embmimaropa@emb.gov.ph
Website: www.mimaropa.emb.gov.ph

Attached Discharge Permit



Republic of the Philippines
Department of Environmental and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU
Region IV-B
PENRO Compound, Brgy. Suqui, Calapan City, Oriental Mindoro,
Satellite Office, 6th Floor DENR by the Bay Bldg., 1515 Roxas Blvd.,
Ermita, Manila
Tel No. (02) 536-97-86

Date: Nov 27, 2019

Permit No.: DP-R4B-19-04029
Renewal

WASTEWATER DISCHARGE PERMIT

Pursuant to Section 14, Article 2, of the RA 9275 otherwise known as the "Philippine Clean Water Act of 2004", this permit is hereby granted to **Jeco Development Corporation** with office address at Sitio Sabang, Cabayugan, Puerto Princesa City (Capital), Palawan for its establishment:

Sheridan Beach Resort and Spa TIN No. 999-789-789-789	Sitio Sabang Cabayugan PUERTO PRINCESA CITY (Capital)

1. The discharge rate of the effluent shall not exceed the 200.0 m3/day design capacity of the Wastewater Treatment Facility (WTF) and shall comply with the following standard

Parameter	Standard	Parameter	Standard
BOD	30 mg/L	Fecal Coliform	200 mg/L
Ammonia	0.5 mg/L	Oil and Grease	5 mg/L
Phosphate	1 mg/L	Nitrate	20 mg/L
Surfactant	3 mg/L		

** Reference for effluent parameters: DAO 2016-08; PSIC Code - 55*

2. That maximum effluent generation for reused on process operation, agricultural purposes (watering of plants, trees and other vegetation) and for urinals and cleaning of sanitary facilities shall be submitted at this office 30 days upon receipt hereof.
3. Submit Self-Monitoring (SMR) based on the following schedule:

Quarter	Coverage	Submission	Quarter	Coverage	Submission
*First	Jan-Mar	1-15 Apr.	*Third	Jul-Sep.	1-15 Oct.
*Second	Apr-Jun.	1-15 Jul.	*Forth	Oct-Dec.	1-15 Jan.

**Include effluent analysis on the above parameters, conducted by Third Party Laboratory duly recognized by EMB, in every submission of the SMR*

4. Submit Sludge Disposal Management Plan within thirty (30) days upon receipt hereof.
5. Submit BOD & TSS analysis of the abstracted water or source of your water supply. (e.g. deep well water, tap water, water distributed by peddlers, etc.) 30 days upon receipt hereof.
6. Secure and submit a copy of the Certification from the Department of Agriculture for the safe re-use ofwastewater for purposes of irrigation and other agricultural uses.
7. Provide flow-measuring device at influent and effluent of your wastewater treatment facility within 30 days upon receipt hereof. Thereafter, submit report/proof of compliance within 15 days upon completion of the said activity.
8. Provide accessible sampling port for effluent water sampling activity of WTF within 30 days upon receipt

9. Submit certificate or any documentary proof of desludging of the WTF and treatment of the same by anaccredited service provider.
10. The permit holder shall allow entry to the said facility/establishment and provide immediate, safe and adequate access to authorized representative/s of the DENR – EMB for the purpose of environmental inspection and water sampling.
11. This permit, together with the corresponding Official Receipts of Payment, shall be adequately framed and posted in a conspicuous place of the plant/establishment
12. This permit shall be renewed thirty (30) days prior to its expiration.
13. This establishment shall be the subject for effluent wastewater validation upon issuance of this permit.

This permit is valid up to *Nov 27, 2020*, unless revoked or suspended by this Office in writing.

Non-compliance with the above conditions and/or any pertinent provisions of RA 9275 otherwise known as "Philippine Clean Water Act of 2004", a corresponding penalty in the amount of P10,000-P200,000 per violation shall be imposed.

Recommended by:

ELENA FE A. BIOFLORIDO
OIC, Compliance and Permitting Division

Approved by:

ATTY. MICHAEL DRAKE P. MATIAS
Regional Director

Filing Fee	: Php 55.00	O.R. No. :	2304166	Date :	June 3, 2009
PD1856	: Php 10.00	O.R. No. :	2304166	Date :	June 3, 2009
Documentary Stamp Tax	: Php 30.00	O.R. No. :	2304166	Date :	June 3, 2009
Permit Fee	: Php 2500.00	O.R. No. :	2300075	Date :	Nov. 25, 2019
Water Discharge Fee	: Php 134.50	O.R. No. :	2300075	Date :	Nov. 25, 2019

Attach drawing/plan of air pollution source and control installations (with dimensions and descriptions) for existing and proposed expansion

Department of Environment and Natural Resources
Environmental Management Bureau
Region Office No. IV - B MIMAROPA

2016-POA-D-0453-778
Permit No
Date 17-Mar-16

New

PERMIT TO OPERATE

Air Pollution Source and Control Installations

Pursuant to Part VI of the Rules and Regulations of R.A. 8749, authority is hereby granted to:

SHERIDAN BEACH RESORT (Name of Firm, Individual, Owner etc.)

So. Sabang, Brgy.Cabayugan, Puerto Princesa City, Palawan (Address)

to operate the following:

One (1) unit kW Diesel Generator Set; One (1) unit 150.4 kW Diesel Generator Set; One (1) unit 240 kW Diesel Generator Set; Two (2) units 280 kW Diesel Generator Set

Recommended by:

BUENA FE A. RIOFLORIDO
OIC, Clearance and Permitting Division

Approved by:

ALLAN L. LEUTERIO
Regional Director

Permit Conditions:

1. Must conform to National Ambient Air Quality Standards for Air Pollutants pursuant to Section 1, Rule XXV, Part VII of RA 8749.

Unless sooner revoked, this permit is valid up to:
16-Mar-21

2. Must submit notarized Quarterly Self-Monitoring Report (SMR) based on DAO-27, Series of 2003 on or before the filing dates.

1st Quarter SMR (January to March)	-15th Day of April
2nd Quarter SMR (April to June)	-15th Day of July
3rd Quarter SMR (July to September)	-15th Day of October
4th Quarter SMR (October to December)	-15th Day of January

3. Subject to revocation if found violating the said permit conditions and other provisions of the Philippine Clean Air Act of 1999 (RA 8749) and its Implementing Rules and Regulations.

4. That the designated PCO by the Managing Head/ President of the establishment shall secure PCO Accreditation pursuant to DENR Administrative Order No. 2014-02 dated 03 February 2014, within ninety (90) days upon issuance of this permit, otherwise, this permit shall be rendered null and void.

This operating Permit shall be posted in a conspicuous location near the equipment and shall be adequately framed or otherwise protected against damage. Application for the renewal of Permit to Operate must be filed thirty (30) days before the expiration date.

O.R. No.	Fee		Date
2792458	Permit Fee	4,000.00	5/18/2016
	Filing Fee	55.00	5/18/2016
2792458	P.D.1856	10.00	5/18/2016

6th Floor DENR by the Bay Bldg., 1515 Roxas Blvd., Ermita, Manila
RD's Office 536-9786, Admin/Finance Division Telefax No. 400-5960
PC Division 521-8904, EIA Division Telefax No. 400-5960
Email Address: mimaropa@emb.gov.ph and emb_mimaropa@yahoo.com

Attach drawing/plan of air pollution source and control installations (with dimensions and descriptions) for existing and proposed expansion

Department of Environment and Natural Resources
Environmental Management Bureau
Region Office No. IV - B MIMAROPA

2016-POA-D-0453-778
Permit No
Date 17-Mar-16

New

PERMIT TO OPERATE

Air Pollution Source and Control Installations

Pursuant to Part VI of the Rules and Regulations of R.A. 8749, authority is hereby granted to:

SHERIDAN BEACH RESORT (Name of Firm, Individual, Owner etc.)

So. Sabang, Brgy.Cabayugan, Puerto Princesa City, Palawan (Address)

to operate the following:

One (1) unit kW Diesel Generator Set; One (1) unit 150.4 kW Diesel Generator Set; One (1) unit 240 kW Diesel Generator Set; Two (2) units 280 kW Diesel Generator Set

Recommended by:

BUENA FE A. RIOFLORIDO
OIC, Clearance and Permitting Division

Approved by:

ALLAN L. LEUTERIO
Regional Director

Permit Conditions:

1. Must conform to National Ambient Air Quality Standards for Air Pollutants pursuant to Section 1, Rule XXV, Part VII of RA 8749.

Unless sooner revoked, this permit is valid up to:
16-Mar-21

2. Must submit notarized Quarterly Self-Monitoring Report (SMR) based on DAO-27, Series of 2003 on or before the filing dates.

1st Quarter SMR (January to March)	-15th Day of April
2nd Quarter SMR (April to June)	-15th Day of July
3rd Quarter SMR (July to September)	-15th Day of October
4th Quarter SMR (October to December)	-15th Day of January

3. Subject to revocation if found violating the said permit conditions and other provisions of the Philippine Clean Air Act of 1999 (RA 8749) and its Implementing Rules and Regulations.

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O.R. No.	Fee		Date
2792458	Permit Fee	4,000.00	5/18/2016
	Filing Fee	55.00	5/18/2016
2792458	P.D.1856	10.00	5/18/2016

6th Floor DENR by the Bay Bldg., 1515 Roxas Blvd., Ermita, Manila
RD's Office 536-9786, Admin/Finance Division Telefax No. 400-5960
PC Division 521-8904, EIA Division Telefax No. 400-5960
Email Address: mimaropa@emb.gov.ph and emb_mimaropa@yahoo.com

250

DRAWING INDEX

SHEET NO.	DESCRIPTION
E-01	DRAWING INDEX, GENERAL NOTES, LEGEND AND SYMBOLS, MOUNTING HEIGHTS, VICINITY MAP,
	FEEDER SCHEDULE, AND POWER RISER DIAGRAM,AND MISCELLANEOUS DETAILS
E-02	SPA SITE LIGHTING LAYOUT
E-03	SPA, GYM AND KID'S CLUB GROUND FLOOR LIGHTING LAYOUT
E-04	SPA SITE POWER DISTRIBUTION LAYOUT
E-05	SPA, GYM AND KID'S CLUB GROUND FLOOR POWER LAYOUT
E-06	SPA, GYM AND KID'S CLUB LIGHTING PROTECTION LAYOUT
E-07	LOAD SCHEDULE
E-08	MISCELLANEOUS DETAILS

MOUNTING HEIGHTS

WALL SWITCHES	1220 MM FROM FINISHED FLOOR TO CENTER OF DEVICE
RECEPTACLE OUTLETS (GENERAL)	450 MM FROM FINISHED FLOOR TO CENTER OF DEVICE
RECEPTACLE OUTLETS (KITCHEN, UTILITY ROOM, WORKSHOPS, ETC.)	1050 MM FROM FINISHED FLOOR TO CENTER OF DEVICE OR 150 MM FROM COUNTERTOP TO CENTER OF DEVICE
THERMOSTATS	1220 MM FROM FINISHED FLOOR TO CENTER OF DEVICE
DISCONNECT SWITCHES, PROTECTIVE DEVICES, CONTROLLERS, ETC.	NOT MORE THAN 2000 MM FROM FINISHED FLOOR TO OPERATING LEVERS, HANDLES, OR BUTTONS
PANELBOARDS	NOT MORE THAN 2000 MM FROM FINISHED FLOOR TO CENTER OF THE GRIP OF THE OPERATING HANDLE
EXIT LIGHTS ABOVE DOOR	150 MM FROM CENTER OF DEVICE TO TOP OF DOOR JAMB
GROUND BAR	450 MM FROM CENTER OF DEVICE TO FINISH FLOOR LEVEL

* MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS DETAILED BY THE ARCHITECT AND/OR INTERIOR DESIGNER

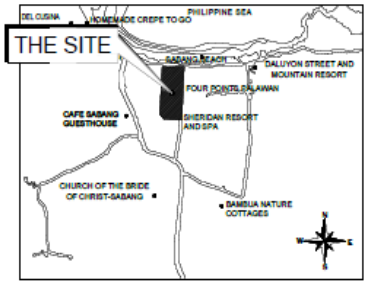
GENERAL NOTES

1. THE ELECTRICAL INSTALLATION HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE EXISTING LOCAL ORDINANCES, AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
2. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF EXISTING POWER SUPPLY FOR POWER CONNECTION OF THE PROJECT.
3. UNLESS OTHERWISE SPECIFIED, THE MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE NO. 3.5mm² (# 12) AND 15mmØ (1/2") DIAMETER RESPECTIVELY.
4. ALL MATERIALS TO BE USED SHALL BE NEW AND OF THE APPROVED TYPE FOR LOCATION AND PURPOSES.
5. ALL 20 AMPERE CIRCUIT HOMERUNS TO PANELBOARD, MORE THAN 30.5 M (100 FT.) LENGTH SHALL BE 5.5mm², UNLESS OTHERWISE SPECIFIED.
6. STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATION AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATIONS SHALL BE USED.
7. ALL EQUIPMENT WHICH ARE SUBJECT TO VIBRATIONS SHALL BE CONNECTED WITH FLEXIBLE CONDUIT.
8. ALL DEVICES AND EQUIPMENT SHOWN ARE ONLY APPROXIMATE LOCATION, ACTUAL SETTING CAN BE MOVED WITHIN 4.5 METERS (15 FT.) AROUND WITHOUT ADDITIONAL COST TO THE OWNER.
9. ALL NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT AND LIGHTING FIXTURE SHALL BE EFFECTIVELY GROUNDED.
10. THE MAXIMUM NUMBER OF CONDUCTORS IN TRADE SIZES OF CONDUITS SHALL BE AS PER ELECTRICAL CODE REQUIREMENTS.
11. PROVIDE PULL WIRES TO ALL EMPTY CONDUITS.
12. USE EMT CONDUIT FOR EMBEDDED AND EXPOSED WORK. EXPOSED CONDUIT RUNS SHALL BE INSTALLED PARALLEL TO OR PERPENDICULAR WITH THE BUILDING LINE AND SUPPORTED BY CONDUIT CLAMPS EVERY 1500mm. DIAGONAL RUNS SHALL NOT BE ACCEPTED.
13. ALL BRANCH CIRCUIT FEEDERS SHALL BE PROVIDED WITH ADDITIONAL GROUND WIRE IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE EVEN NOT SHOWN ON DRAWINGS.
14. CONTROLLERS FOR ELECTRICALLY OPERATED EQUIPMENT FOR A/C AND OTHER SPECIAL SYSTEM SHALL BE PROVIDED BY RESPECTIVE CONTRACTORS INCLUDING WIRE AND CONDUIT FROM EQUIPMENT TO CONTROLLER.
15. WIRING LAYOUT INDICATED ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL WIRE THE SYSTEM TO ATTAIN ITS INTENDED FUNCTION EVEN WIRES ARE NOT INDICATED ON THE PLAN.
16. ALL STEEL MATERIALS TO BE USED IN THIS PROJECT SHALL BE EITHER HOT DIPPED GALVANIZED OR ZINC COATED.
17. ELECTRICAL WORKS SHALL BE DONE BY LICENSED ELECTRICAL CONTRACTOR AND SUPERVISED BY LICENSED ELECTRICAL ENGINEER.
18. THE WIRING LAYOUT INDICATED SHALL BE USED AS A GUIDE ONLY. ALL AUXILIARY SYSTEM CONNECTIONS SHALL BE MADE ON MANUFACTURERS RECOMMENDATION TO COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION.
19. WIRING LAYOUT INDICATED ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL WIRE THE SYSTEM TO ATTAIN ITS INTENDED FUNCTION EVEN IF WIRES ARE NOT INDICATED ON THE PLAN.
20. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANT RATED WALLS, PARTITIONS, FLOORS, OR CEILINGS SHALL BE FIRE-STOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING.
22. MINIMUM SIZE OF PVC CONDUIT SHALL BE 20 MM (3/4").
23. ALL CABLE SHEILDS, CABLE ARMOR METAL SPLICE CASES AND METAL APPARATUS CASES SHALL BE BONDED TOGETHER AND GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE ARTICLE 2.50.

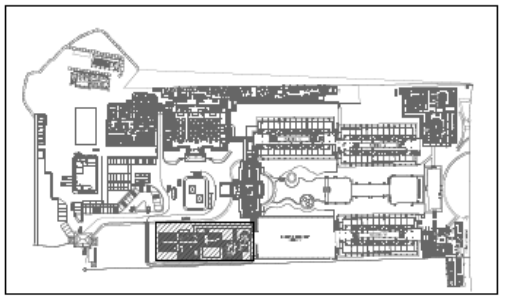
LEGEND & SYMBOLS

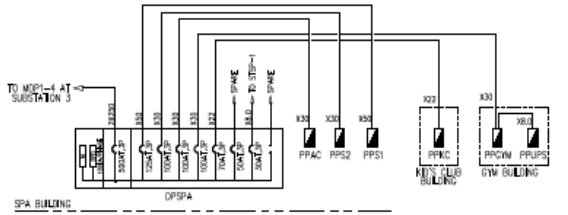
- LED EMERGENCY LIGHT WITH 120-MINUTES BATTERY BACKUP
- EMERGENCY DOWNLIGHT RATED 3W, LED LAMP
- LED EXIT LIGHT WITH 90-MINUTES BATTERY BACKUP
- LED DIRECTIONAL EXIT LIGHT, DOUBLE FACE WITH WITH 90-MINUTES BATTERY BACKUP
- 3000K, LED DOWNLIGHT
- 9W, 500 LUMENS, 3000K, LED DOWNLIGHT
- 2x18W, 2275 LUMENS, 3000K, LED TUBE LIGHT
- 6W/M, 2700K, CONTINUOUS LED TRIP WITH BUILT-IN CASE & DIFFUSER "V CONE"
- 3x9W/M, 3100K, FULLY RECESSED LED DOWN LIGHT, WITH DEEP CONE, NARROW SQUARE APERTURE 15° BEAM SPREAD
- SINGLE POLE WALL SWITCH 15A, 230V
- TWO WAY TUMBLER SWITCH, 15A, 230V (SUBSCRIPT LETTER DENOTES LIGHT CONTROLLED AND NUMBER OF GANG)
- SINGLE WALL CONVENIENCE OUTLET 16A, 250V, PARALLEL SLOTS, GROUNDING TYPE
- DUPLEX WALL CONVENIENCE OUTLET 16A, 250V, PARALLEL SLOTS, GROUNDING TYPE
- DUPLEX CONVENIENCE OUTLET, FLOOR MOUNTED, 16A, 250V, PARALLEL SLOTS, GROUNDING TYPE
- JUNCTION BOX OR UTILITY BOX, SIZE AS REQUIRED
- ENCLOSED CIRCUIT BREAKER, RATING AND ENCLOSURE TYPE AS INDICATED
- PANEL BOARD (MOUNTED 2850MM FROM TOP OF PANEL TO FINISH FLOOR LEVEL)
- WIRING IN CONDUIT CONCEALED UNDERFLOOR OR UNDERGROUND
- WIRING IN CONDUIT CONCEALED IN WALL OR CEILING
- MOTOR, RATING AND PURPOSE AS INDICATED
- GROUNDING SYSTEM WIRING 30mm² BCW GROUNDING ELECTRODE CONDUCTOR
- LIGHTNING PROTECTION SYSTEM WIRING
- 30mm² BC WIRE DOWN CONDUCTOR
- GROUND ROD
- GROUND CONNECTION
- NON-FUSIBLE SAFETY DISCONNECT SWITCH, RATING AND ENCLOSURE TYPE AS INDICATED

VICINITY MAP



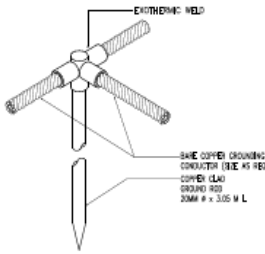
KEY PLAN



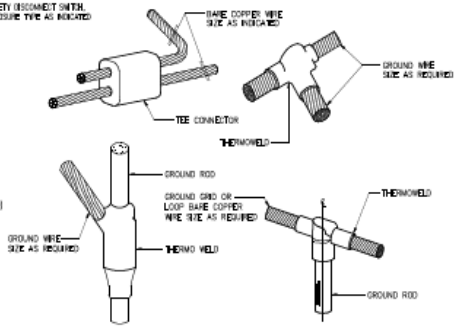


FEEDER SCHEDULE	
FEEDER	WIRE AND CONDUIT
X8.0	3–8.0mm²+1–5.5mm²(G),40mmØ
X22	3–22mm²+1–8.0mm²(G),40mmØ
X30	3–30mm²+1–8.0mm²(G),50mmØ
X50	3–50mm²+1–14mm²(G),50mmØ
2X250	2x[3–250mm²+1–30mm²(G),100mmØ]

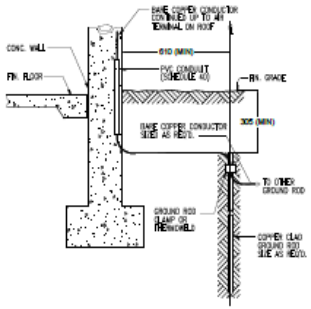
A E-01 POWER RISER DIAGRAM — SCALE NTS



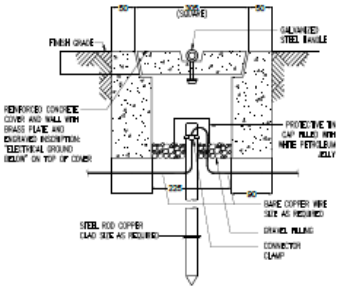
B E-01 GROUND ROD DETAIL — SCALE NTS



C E-01 GROUNDING TAP CONNECTION — SCALE NTS



D E-01 DOWN CONDUCTOR TO GROUND ROD DETAIL — SCALE NTS



E E-01 GROUND STATION DETAIL — SCALE NTS

CONSTRUCTION
MARCH 16, 2021

ARCHITECT	PRC. NO.	PROJECT TITLE:	OWNER:	CONSULTING ENGINEER:	PRC. NO. 4232	DRAWN DATE: MARCH 16, 2021	SHEET CONTENTS	SHEET NO.
	DATE:	PROPOSED SPA, GYM AND KID'S CLUB BUILDING	JECO DEVELOPMENT CORP. JEFFERSON C. TAN	FERNANDO S. GUEVARA JR PROFESSIONAL ELECTRICAL ENGINEER	PTR NO. 8534608	DRAWN BY: JSL	DRAWING INDEX, MOUNTING HEIGHTS, LEGENDS AND SYMBOLS, VICINITY MAP, FEEDER SCHEDULE, POWER RISER DIAGRAM, AND MISCELLANEOUS DETAILS	E-01
	PTR NO.				T.I.N. 100-183-179	DRAWING PHASE: CONSTRUCTION		
	DATE:				DATE: 01/05/2021	REVISION NO. / DESCRIPTION		
	T.I.N.	LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 2ND FLOOR, SHERIDAN BUILDING, OLIVANO AVE., NORTH RECLAMATION AREA, MANDALUE CITY, CEBU PHILIPPINES 6014		PLACE MAKATI	SCALE AS SHOWN		JOB NO. 2019-00181

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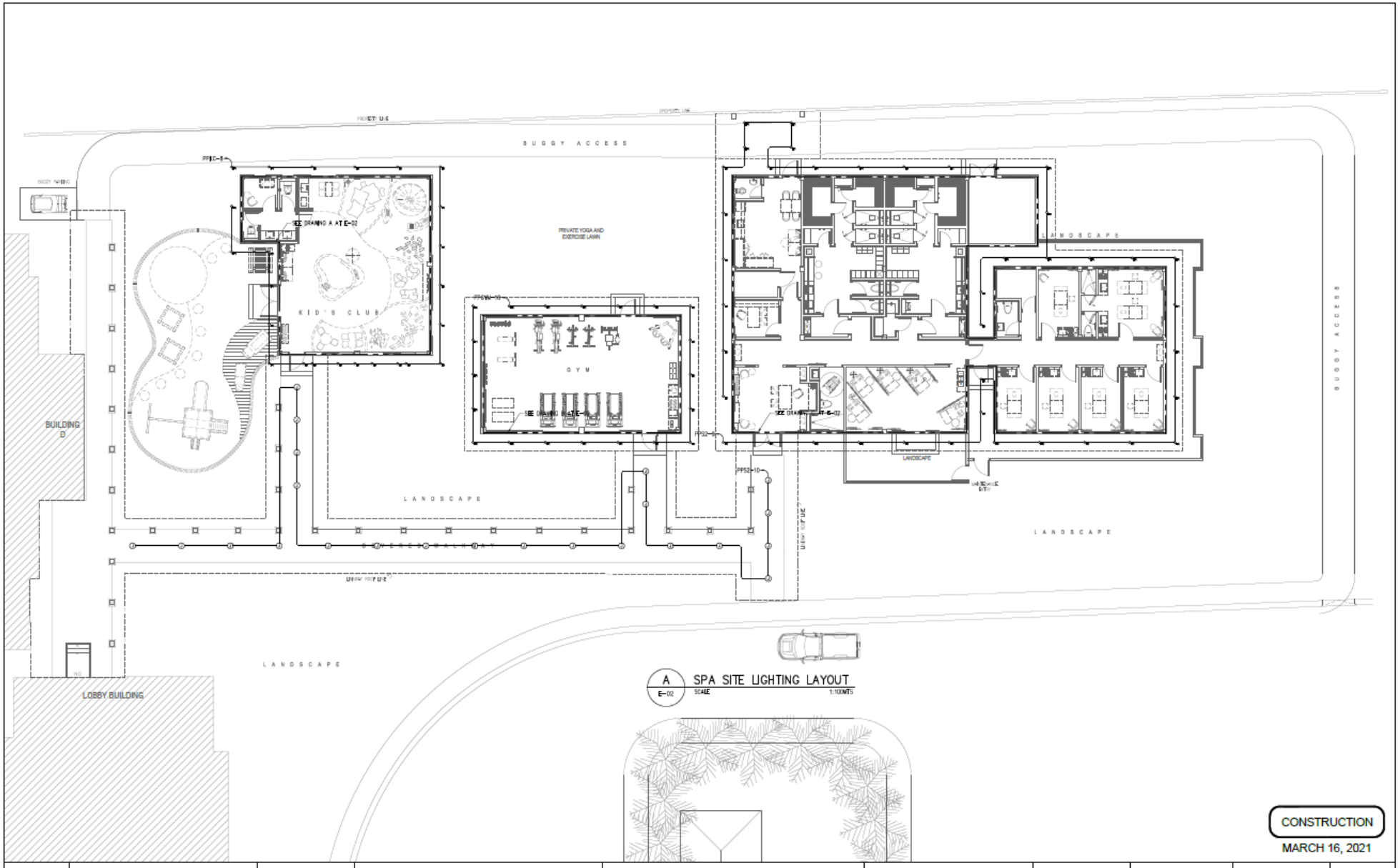

A E-02 SPA SITE LIGHTING LAYOUT
SCALE 1:100MTS

CONSTRUCTION
MARCH 16, 2021

ARCHITECT	PRC. NO.	PROJECT TITLE:	OWNER:	CONSULTING ENGINEER:	PRC. NO. 4232	DESIGN DATE: MARCH 16, 2021	SHEET CONTENTS	SHEET NO.
	DATE:	PROPOSED SPA, GYM AND KID'S CLUB BUILDING	JECO DEVELOPMENT CORP. JEFFERSON C. TAN	FERNANDO S. GUEVARA JR PROFESSIONAL ELECTRICAL ENGINEER	PTR NO. 8534608	DRAWN BY: AN	SPA SITE LIGHTING LAYOUT	E-02
	PTR NO.				T.I.N. 100-183-179	DRAWING PHASE: CONSTRUCTION		
	DATE:				DATE: 01/05/2021	REVISION NO. / DESCRIPTION		
	T.I.N.	LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 2ND FLOOR, SHERIDAN BUILDING, OLIVAS AVE., NORTH RECLAMATION AREA, MANDAUE CITY, CEBU PHILIPPINES 6014		PLACE MAKATI	SCALE AS SHOWN		JOB NO. 2019-00181

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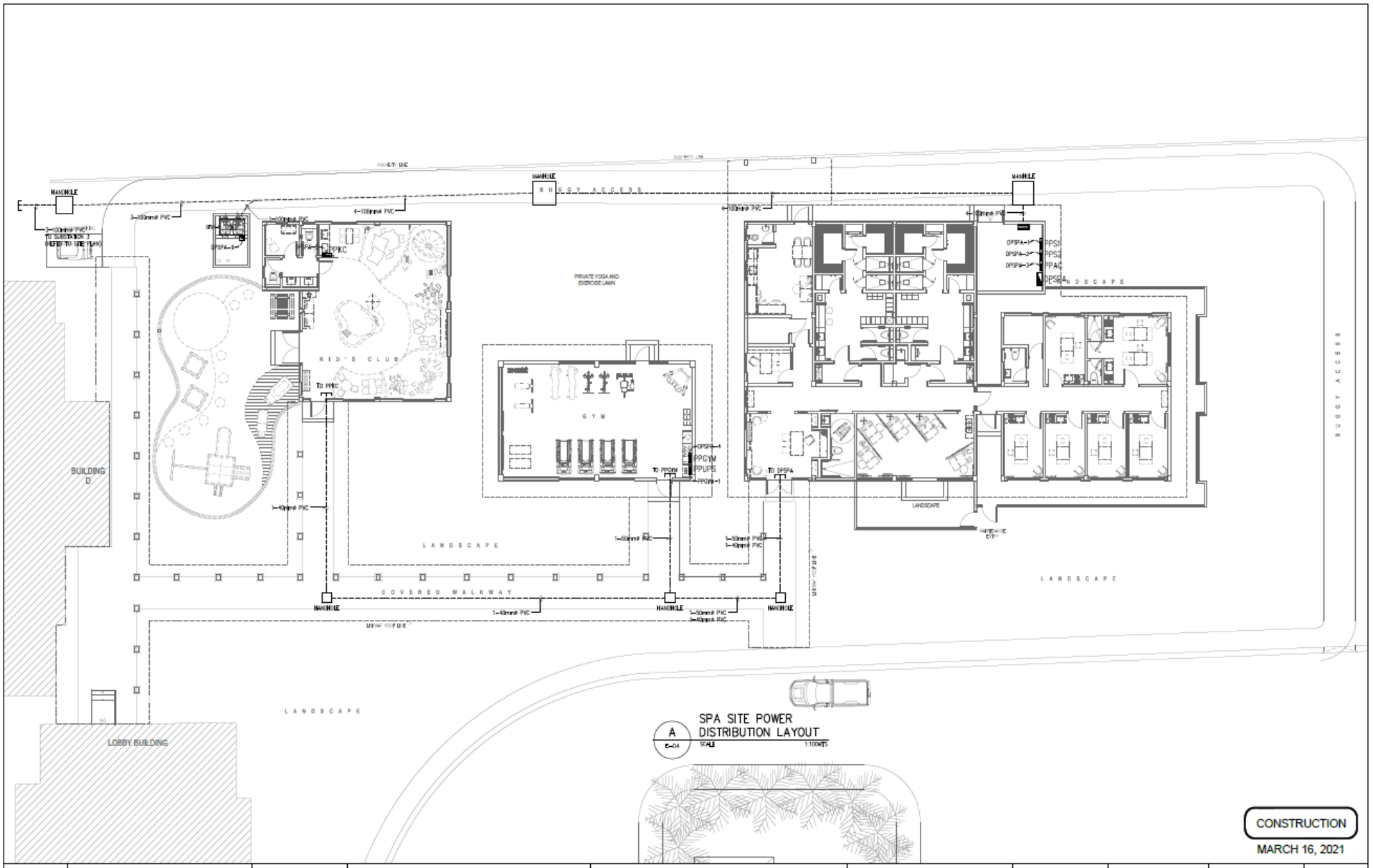

A E-04 SPA SITE POWER DISTRIBUTION LAYOUT
SCALE 1:100MTS

CONSTRUCTION
MARCH 16, 2021

	ARCHITECT	PRC. NO.	PROJECT TITLE:	OWNER:	CONSULTING ENGINEER:	PRC. NO. 4232	DRAWN DATE: MARCH 16, 2021	SHEET CONTENTS	SHEET NO.
		DATE:	PROPOSED SPA, GYM AND KID'S CLUB BUILDING	JECO DEVELOPMENT CORP. JEFFERSON C. TAN	FERNANDO S. GUEVARA JR PROFESSIONAL ELECTRICAL ENGINEER	PTR NO. 8534608	DRAWN BY: DA	SPA SITE POWER DISTRIBUTION LAYOUT	E-04
		PTR NO.				T.I.N. 100-183-179	DRAWING PHASE: CONSTRUCTION		
		DATE:				DATE: 01/05/2021	REVISION NO. / DESCRIPTION		
		T.I.N.	LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 2ND FLOOR, SHERIDAN BUILDING, OLIANO AVE., NORTH RECLAMATION AREA, MANDAUE CITY, CEBU PHILIPPINES 6014		PLACE MAKATI	SCALE AS SHOWN	JOB NO. 2019-00181	

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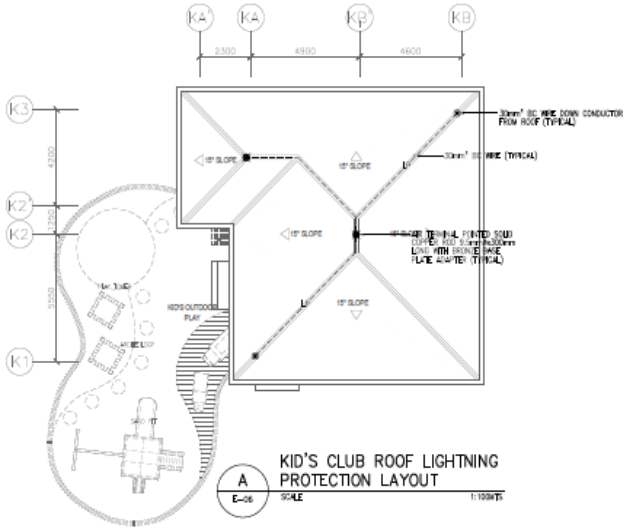
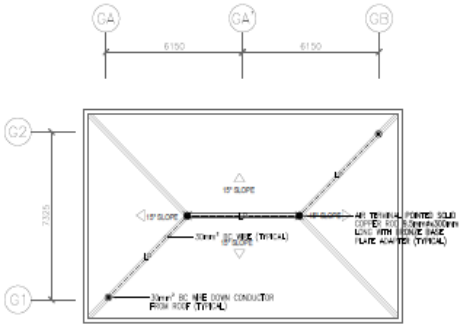
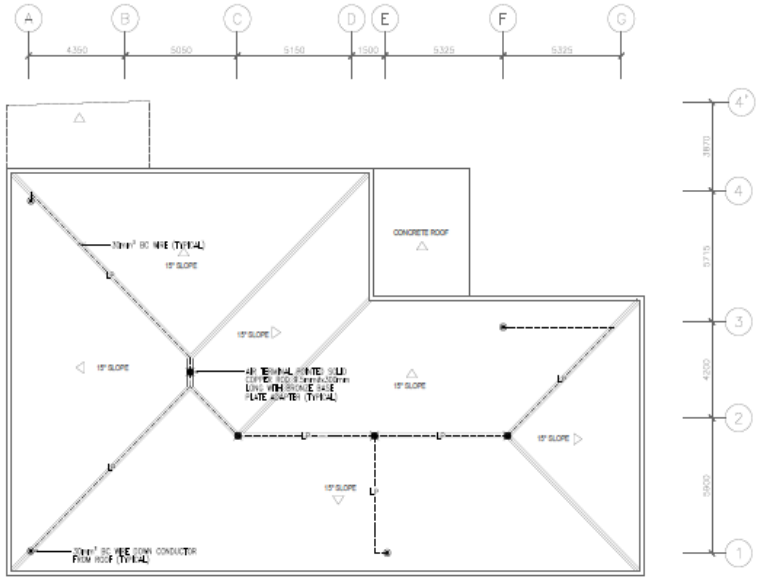


A E-06 KID'S CLUB ROOF LIGHTNING PROTECTION LAYOUT
SCALE 1:100MTS



B E-06 GYM ROOF LIGHTNING PROTECTION LAYOUT
SCALE 1:100MTS



C E-06 SPA ROOF LIGHTNING PROTECTION LAYOUT
SCALE 1:100MTS

CONSTRUCTION
MARCH 16, 2021

	ARCHITECT	PRC. NO.	PROJECT TITLE:	OWNER:	CONSULTING ENGINEER:	PRC. NO. 4232	DESIGN DATE: MARCH 16, 2021	SHEET CONTENTS	SHEET NO.
		DATE:	PROPOSED SPA, GYM AND KID'S CLUB BUILDING	JECO DEVELOPMENT CORP. JEFFERSON C. TAN	FERNANDO S. GUEVARA JR PROFESSIONAL ELECTRICAL ENGINEER	PTR NO. 8534608	DRAWN BY: JSA	KID'S CLUB, GYM AND, SPA POWER LAYOUT	E-06
		PTR NO.				T.I.N. 100-183-179	DRAWING PHASE: CONSTRUCTION		
		DATE:				DATE: 01/05/2021	REVISION NO. / DESCRIPTION		
		T.I.N.	LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 2ND FLOOR, SHERIDAN BUILDING, OLIVAS AVE., NORTH RECLAMATION AREA, MANDAUE CITY, CEBU PHILIPPINES 6014		PLACE MAKATI	SCALE AS SHOWN		JOB NO. 2019-00181

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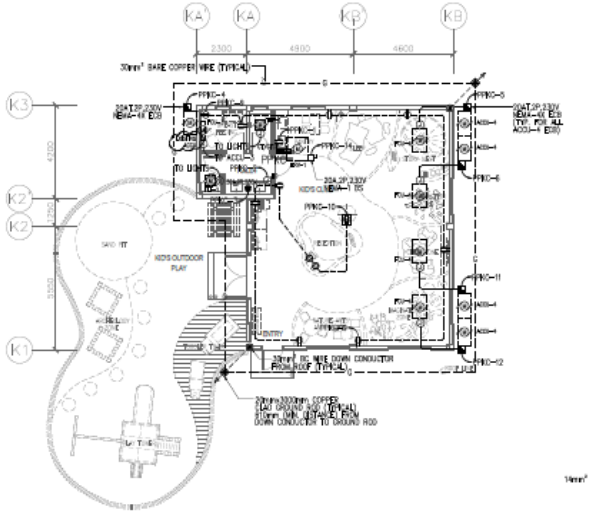
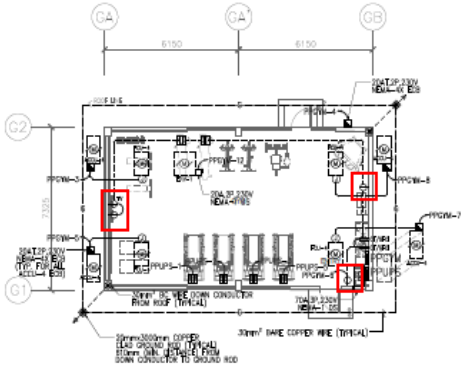
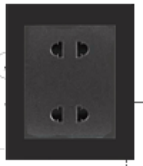


A KID'S CLUB POWER LAYOUT
E-05 SCALE 1:100MTS

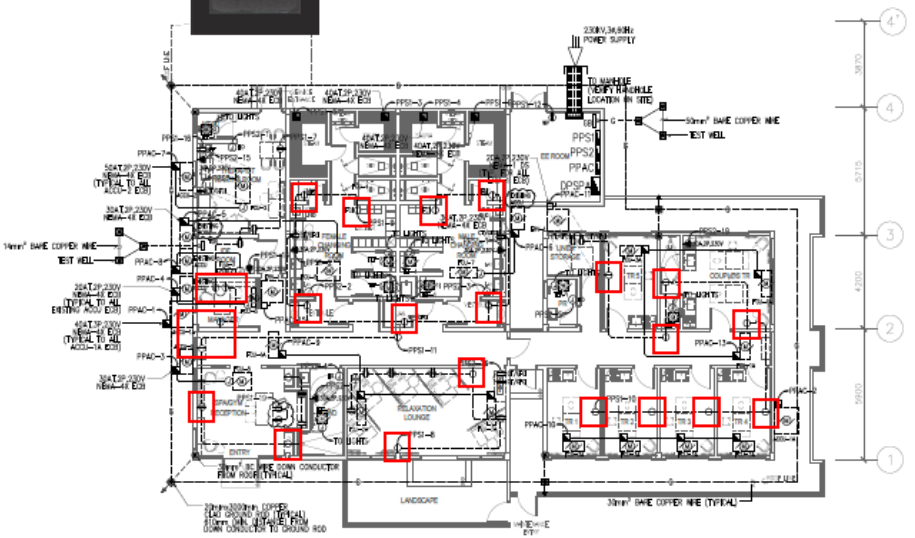


B GYM POWER LAYOUT
E-05 SCALE 1:100MTS

GFCI : FIKO Brand
230VAC , 60Hz,
Rated Current: 20A ;
Face Output Receptacle : 2 groups 5-15



Legrand
size: 86*86mm
DUPLEX CONVENIENCE OUTLET
10A



C SPA POWER LAYOUT
E-05 SCALE 1:100MTS

	ARCHITECT	PRC. NO.	PROJECT TITLE:	OWNER:	CONSULTING ENGINEER:	PRC. NO. 4232	DESIGN DATE: SEPTEMBER 28, 2021	SHEET CONTENTS	SHEET NO.
		DATE:	PROPOSED SPA, GYM AND KID'S CLUB BUILDING	JECO DEVELOPMENT CORP. JEFFERSON C. TAN	FERNANDO S. GUEVARA JR PROFESSIONAL ELECTRICAL ENGINEER	PTR NO. 8534608	DRAWN BY: JM	KID'S CLUB, GYM, AND SPA BUILDING POWER LAYOUT	E-05
		PTR NO.				T.I.N. 100-183-179	DRAWING PHASE: CONSTRUCTION		
		DATE:				DATE: 01/05/2021	REVISION NO. / DESCRIPTION		
		T.I.N.	LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 2ND FLOOR, SHERIDAN BUILDING, OLIVAND AVE., NORTH RECLAMATION AREA, MANDAUE CITY, CEBU PHILIPPINES 6014		PLACE MAKATI	SCALE AS SHOWN		JOB NO. 2019-00181

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MOUNTING: SURFACE
ENCLOSURE: NEMA–1

PPKC

MAIN: 80AT/100AF,3P CB
VOLTAGE: 230V,3ø,3W+G,60HZ

CKT NO.	DESCRIPTION	VA PER PHASE AB	BC	CA	3ø	BREAKER POLE	AT	AF	WIRE AND CONDUIT SIZE
1	SMALL APPLIANCE	1500				2	20*	50	2–3.5mm²+1–3.5mm²(G),15mmø
2	HAND DRYER	1500				2	20*	50	2–3.5mm²+1–3.5mm²(G),15mmø
3	WATER HEATER			5000		2	20*	50	2–3.5mm²+1–3.5mm²(G),15mmø
4	EXISTING ACCU (1.5HP)			1500		2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
5	ACCU–4		1920			2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
6	ACCU–4		1920			2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
7	INDOOR LIGHTS	1500				2	15	50	2–2.0mm²+1–2.0mm²(G),15mmø
8	OUTDOOR LIGHTS	1500				2	15	50	2–2.0mm²+1–2.0mm²(G),15mmø
9	CONVENIENCE OUTLET			1080		2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
10	CONVENIENCE OUTLET			1080		2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
11	ACCU–4		1920			2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
12	ACCU–4		1920			2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
13	LANDSCAPE LIGHTS	1500				2	15	50	2–2.0mm²+1–2.0mm²(G),15mmø
14	ENV–1	181				2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
15	EMERGENCY LIGHTS			500		2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
16	PROVISION FOR CCTV			500		2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
17	PROVISION FOR CATV		500			2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
18	SPARE		1500			2	20	50	–
19	PROVISION FOR FDAS	500				2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
20	SPARE	1500				2	20	50	–
	TOTAL	9661	9680	9660					

CALCULATION:

$I_{PH} = \frac{9680VA \times 80\%\ D.F. \times 1.732}{230V} = 58.32A$

$I_P = 58.32A \times 1.25 = 72.90A$

$I_{GR} = 58.32A \times 1.25 = 72.90A$

(*) GFCI CIRCUIT BREAKER

FEEDER: 3–22mm²+1–8.0mm²(G),40mmø

MOUNTING: SURFACE
ENCLOSURE: NEMA–1

PPS1

MAIN: 125AT/150AF,3P CB
VOLTAGE: 230V,3ø,3W+G,60HZ

CKT NO.	DESCRIPTION	VA PER PHASE AB	BC	CA	3ø	BREAKER POLE	AT	AF	WIRE AND CONDUIT SIZE
1	WATER HEATER	5000				2	30*	50	2–5.5mm²+1–5.5mm²(G),20mmø
2	WATER HEATER	5000				2	30*	50	2–5.5mm²+1–5.5mm²(G),20mmø
3	PROV. FOR STEAM GENERATOR			6000		2	40	50	2–8.0mm²+1–5.5mm²(G),25mmø
4	PROV. FOR STEAM GENERATOR			6000		2	40	50	2–8.0mm²+1–5.5mm²(G),25mmø
5	PROV. FOR SAUNA		6000			2	40	50	2–8.0mm²+1–5.5mm²(G),25mmø
6	PROV. FOR SAUNA		6000			2	40	50	2–8.0mm²+1–5.5mm²(G),25mmø
7	CONVENIENCE OUTLET	1440				2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
8	CONVENIENCE OUTLET	1620				2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
9	CONVENIENCE OUTLET			1620		2	20*	50	2–3.5mm²+1–3.5mm²(G),15mmø
10	CONVENIENCE OUTLET			1800		2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
11	CONVENIENCE OUTLET		1260			2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
12	CONVENIENCE OUTLET		180			2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
13	PROV. FOR FDAS	500				2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
14	PROV. FOR BF	1500				2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
15	PROV. FOR CCTV			500		2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
16	REFRIGERATOR			500		2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
17	SPARE		1500			2	20	50	–
18	SPARE		1500			2	20	50	–
19	CONVENIENCE OUTLET	360				2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
20	SPARE	1000				2	20	50	–
	TOTAL	16420	16440	16420					

CALCULATION:

$I_{PH} = \frac{16440VA \times 75\%\ D.F. \times 1.732}{230V} = 92.85A$

$I_P = 92.85A \times 1.25 = 116.06A$

$I_{GR} = 92.85A \times 1.25 = 116.06A$

(*) GFCI CIRCUIT BREAKER

FEEDER: 3–50mm²+1–14mm²(G),50mmø

MOUNTING: SURFACE
ENCLOSURE: NEMA–1

PPAC

MAIN: 100AT/100AF,3P CB
VOLTAGE: 230V,3ø,3W+G,60HZ

CKT NO.	DESCRIPTION	VA PER PHASE AB	BC	CA	3ø	BREAKER POLE	AT	AF	WIRE AND CONDUIT SIZE
1	ACCU–1A (WF)				6900	3	40	50	3–8.0mm²+1–5.5mm²(G),25mmø
2	ACCU–1A (WF)				6900	3	40	50	3–8.0mm²+1–5.5mm²(G),25mmø
3	ACCU–5	2470				2	30	50	2–5.5mm²+1–5.5mm²(G),20mmø
4	EXISTING ACCU (1.5HP)	1500				2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
5	EXISTING ACCU (MOC)–UP RM			2374		2	30	50	2–5.5mm²+1–5.5mm²(G),20mmø
6	EXISTING ACCU (MOC)–UP RM			2374		2	30	50	2–5.5mm²+1–5.5mm²(G),20mmø
7	ACCU–2	4450				2	50	50	2–8.0mm²+1–5.5mm²(G),25mmø
8	EXISTING ACCU (1.5HP)	1500				2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
9	1 FDU–1A & 2 FDU–2A	300				2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
10	4 FDU–3A	300				2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
11	SPARE			1900		2	20	50	–
12	SPACE			–		2	–	50	–
13	2 FDU–1A & 1 FDU–3A		300			2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
14	ENV–1		181			2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
15	ENV–1	181				2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
16	SPARE	1900				2	20	50	–
	TOTAL	6231	6411	6248	13800				

CALCULATION:

$I_{PH} = \frac{\sqrt{3} \times 6411VA + 13800VA) \times 80\%\ D.F.}{230V \times 1.732} = 66.34A$

$I_P = 66.34AA + 0.25(17.32A) = 70.67A$

$I_{GR} = 66.34AA + 1.5(17.32A) = 92.32A$

FEEDER: 3–30mm²+1–8.0mm²(G),50mmø

MOUNTING: SURFACE
ENCLOSURE: NEMA–1

PPGYM

MAIN: 100AT/100AF,3P CB
VOLTAGE: 230V,3ø,3W+G,60HZ

CKT NO.	DESCRIPTION	VA PER PHASE AB	BC	CA	3ø	BREAKER POLE	AT	AF	WIRE AND CONDUIT SIZE
1	PPUPS	4000	4000	4000		3	40	50	3–8.0mm²+1–5.5mm²(G),25mmø
2	SPACE	–	–	–		2	–	50	–
3	ACCU–4	1920				2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
4	PROV. FOR YOGA AREA	1500				2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
5	CONVENIENCE OUTLET			1440		2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
6	ACCU–4			1920		2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
7	ACCU–4		1920			2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
8	ACCU–4		1920			2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
9	PROV. FOR DIMMER RACK 2	2213				2	15	50	2–2.0mm²+1–2.0mm²(G),15mmø
10	OUTDOOR LIGHTS	1000				2	15	50	2–2.0mm²+1–2.0mm²(G),15mmø
11	LANDSCAPE LIGHTS			1500		2	15	50	2–2.0mm²+1–2.0mm²(G),15mmø
12	ENV–1			181		2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
13	SPARE		2000			2	20	50	–
14	SPARE		1500			2	20	50	–
15	PROVISION FOR CCTV	500				2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
16	PROVISION FOR FDAS	500				2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
17	EMERGENCY LIGHTS			500		2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
18	SPARE			2000		2	20	50	–
	TOTAL	11633	11340	11521					

CALCULATION:

$I_{PH} = \frac{11633VA \times 80\%\ D.F. \times 1.732}{230V} = 70.08A$

$I_P = 70.08A \times 1.25 = 87.6A$

$I_{GR} = 70.08A \times 1.25 = 87.6A$

FEEDER: 3–30mm²+1–8.0mm²(G),50mmø

MOUNTING: SURFACE
ENCLOSURE: NEMA–1

PPS2

MAIN: 100AT/100AF,3P CB
VOLTAGE: 230V,3ø,3W+G,60HZ

CKT NO.	DESCRIPTION	VA PER PHASE AB	BC	CA	3ø	BREAKER POLE	AT	AF	WIRE AND CONDUIT SIZE
1	HAND DRYER	1500				2	20*	50	2–3.5mm²+1–3.5mm²(G),15mmø
2	HAND DRYER	1500				2	20*	50	2–3.5mm²+1–3.5mm²(G),15mmø
3	HAND DRYER			1500		2	20*	50	2–3.5mm²+1–3.5mm²(G),15mmø
4	HAND DRYER			1500		2	20*	50	2–3.5mm²+1–3.5mm²(G),15mmø
5	HAND DRYER		1500			2	20*	50	2–3.5mm²+1–3.5mm²(G),15mmø
6	SMALL APPLIANCE		1500			2	20*	50	2–3.5mm²+1–3.5mm²(G),15mmø
7	INDOOR LIGHTS	1000				2	15	50	2–2.0mm²+1–2.0mm²(G),15mmø
8	INDOOR LIGHTS	1000				2	15	50	2–2.0mm²+1–2.0mm²(G),15mmø
9	OUTDOOR LIGHTS			1500		2	15	50	2–2.0mm²+1–2.0mm²(G),15mmø
10	OUTDOOR LIGHTS			1500		2	15	50	2–2.0mm²+1–2.0mm²(G),15mmø
11	LANDSCAPE LIGHTS		1500			2	15	50	2–2.0mm²+1–2.0mm²(G),15mmø
12	LANDSCAPE LIGHTS		1500			2	15	50	2–2.0mm²+1–2.0mm²(G),15mmø
13	EMERGENCY LIGHTS	500				2	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
14	EE ROOM & ICP LIGHTS	500				2	15	50	2–2.0mm²+1–2.0mm²(G),15mmø
15	WATER HEATER			5000		2	30*	50	2–5.5mm²+1–5.5mm²(G),20mmø
16	SPARE			1000		2	20	50	–
17	WATER HEATER		5000			2	30*	50	2–5.5mm²+1–5.5mm²(G),20mmø
18	SPARE		1000			2	20	50	–
19	WATER HEATER	5000				2	30*	50	2–5.5mm²+1–5.5mm²(G),20mmø
20	SPARE	1000				2	20	50	–
	TOTAL	12000	12000	12000					

CALCULATION:

$I_{PH} = \frac{12000VA \times 80\%\ D.F. \times 1.732}{230V} = 72.29A$

$I_P = 72.29A \times 1.25 = 90.36A$

$I_{GR} = 72.29A \times 1.25 = 90.36A$

(*) GFCI CIRCUIT BREAKER

FEEDER: 3–30mm²+1–8.0mm²(G),50mmø

MOUNTING: SURFACE
ENCLOSURE: NEMA–1

PPUPS

MAIN: 40AT/50AF,3P CB
VOLTAGE: 230V,3ø,3W+G,60HZ

CKT NO.	DESCRIPTION	VA PER PHASE AB	BC	CA	3ø	BREAKER POLE	AT	AF	WIRE AND CONDUIT SIZE
1	PROVISION FOR TREADMILL	2000				3	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
2	PROVISION FOR TREADMILL	2000				3	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
3	PROVISION FOR TREADMILL			2000		3	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
4	SPARE			2000		3	20	50	–
5	PROVISION FOR TREADMILL		2000			3	20	50	2–3.5mm²+1–3.5mm²(G),15mmø
6	SPARE		2000			3	20	50	–
	TOTAL	4000	4000	4000					

CALCULATION:

$I_{PH} = \frac{3 \times 4000VA \times 80\%\ D.F.}{230V \times 1.732} = 30.12A$

$I_P = 30.12A \times 1.25 = 37.65A$

$I_{GR} = 30.12A \times 1.25 = 37.65A$

FEEDER: 3–8.0mm²+1–5.5mm²(G),25mmø

UPS CALCULATION:

$kVA_{UPS} = \frac{10000VA \times 1.75}{1000} = 14kVA$

USE: 20KVA UPS

MOUNTING: SURFACE
ENCLOSURE: NEMA–1

DPSPA

MAIN: 500AT/600AF,3P CB
VOLTAGE: 230V,3ø,3W+G,60HZ

CKT NO.	DESCRIPTION	VA PER PHASE AB	BC	CA	3ø	BREAKER POLE	AT	AF	WIRE AND CONDUIT SIZE
1	PPS1	16420	16440	16420		3	125	150	3–50mm²+1–14mm²(G),50mmø
2	PPS2	12500	12500	12500		3	100	150	3–30mm²+1–8.0mm²(G),50mmø
3	PPAC	6231	6411	6248	13800	3	100	100	3–30mm²+1–8.0mm²(G),50mmø
4	PPGYM	11633	11340	11521		3	100	100	3–30mm²+1–8.0mm²(G),50mmø
5	PPKC	9661	9680	9660		3	80	100	3–22mm²+1–8.0mm²(G),40mmø
6	SPARE				15000	3	50	100	–
7	CTRP–1 (1–3HP/1–5HP)				5825	3	30	100	3–8.0mm²+1–5.5mm²(G),100mmø
8	SPACE				–	3	–	100	–
	TOTAL	56445	56371	56349	32625				

CALCULATION:

$I_{PH} = \frac{(3 \times 56445VA + 32625VA) \times 75\%\ D.F.}{230V \times 1.732} = 380.24A$

$I_P = 380.24A \times 1.25 = 475.30A$

$I_{GR} = 380.24A \times 1.25 = 475.30A$

FEEDER: 2x[3–250mm²+1–30mm²(G),100mmø]

	ARCHITECT	PRC. NO.	PROJECT TITLE:	OWNER:	CONSULTING ENGINEER:	PRC. NO. 4232	DRAWN DATE: SEPTEMBER 24, 2021	SHEET CONTENTS	SHEET NO.
		DATE:	PROPOSED SPA, GYM AND KID'S CLUB BUILDING	JECO DEVELOPMENT CORP.	FERNANDO S. GUEVARA JR.	PTR NO. 8534608	DRAWN BY: JM		E-07
		PTR NO.		JEFFERSON C. TAN	PROFESSIONAL ELECTRICAL ENGINEER	T.I.N. 100-183-179	DRAWING PHASE: CONSTRUCTION		
		DATE:				DATE: 01/05/2021	REVISION NO. / DESCRIPTION:		
		T.I.N.	LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 2ND FLOOR, SHERIDAN BUILDING, OSMAÑA AVE., NORTH RECLAMATION AREA, MANDAUE CITY, CEBU, PHILIPPINES 6014		PLACE MAKATI	SCALE AS SHOWN		JOB NO. 2019-00181

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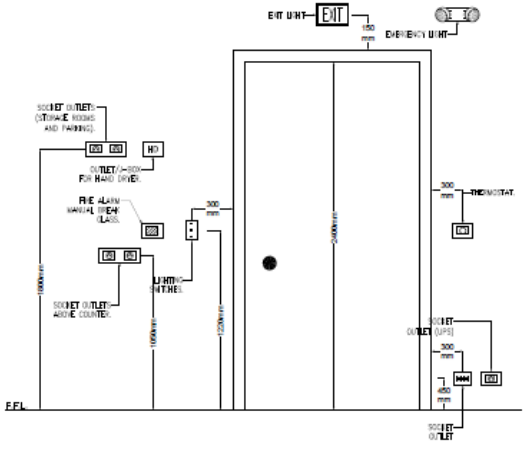
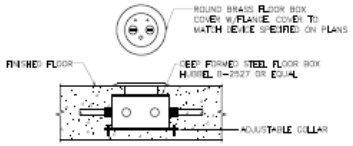
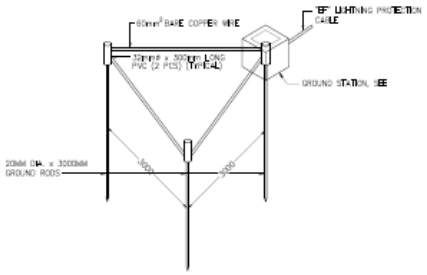


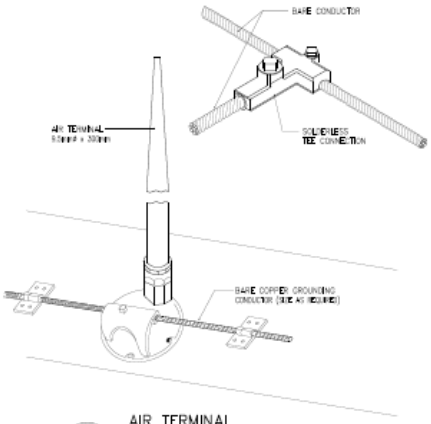
A E-08 ELECTRICAL WIRING DEVICES MOUNTING HEIGHT ELEVATION AT NON-DECORATIVE WALL
SCALE NTS



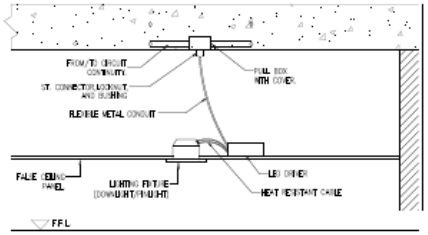
B E-08 IN-FLOOR JUNCTION/ OUTLET BOX DETAIL
SCALE NTS



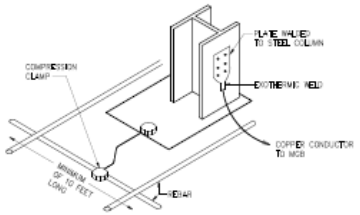
C E-08 GROUNDING SYSTEM DETAIL
SCALE NTS



D E-08 AIR TERMINAL MOUNTING DETAIL
SCALE NTS



E E-08 RECESSED LIGHTING FIXTURE ON DROP-CEILING DETAIL
SCALE NTS



F E-08 TYPICAL BUILDING STRUCTURAL GROUND
SCALE NTS

CONSTRUCTION
MARCH 16, 2021

	ARCHITECT	PRC. NO.	PROJECT TITLE:	OWNER:	CONSULTING ENGINEER:	PRC. NO. 4232		SHEET CONTENTS	SHEET NO.
		DATE:	PROPOSED SPA, GYM AND KID'S CLUB BUILDING	JECO DEVELOPMENT CORP. JEFFERSON C. TAN	FERNANDO S. GUEVARA JR PROFESSIONAL ELECTRICAL ENGINEER	PTR NO. 8534608	DESIGN DATE: MARCH 16, 2021	MISCELLANEOUS DETAILS	E-08
		PTR NO.				T.I.N. 100-183-179	DRAWN BY: JDS		
		DATE:				DATE: 01/05/2021	DRAWING PHASE: CONSTRUCTION		
		T.I.N.	LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 2ND FLOOR, SHERIDAN BUILDING, QUIAO AVE., NORTH RECLAMATION AREA, MANDALUE CITY, CEBU PHILIPPINES 6014		PLACE MAKATI	REVISION NO. / DESCRIPTION	SCALE AS SHOWN	JOB NO. 2019-00181

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DRAWING INDEX

SHEET NO.	DRAWING TITLE
M-01	DRAWING INDEX, GENERAL NOTES, ABBREVIATION AND EQUIPMENT SCHEDULE
	AND MISCELLANEOUS DETAILS
M-02	EQUIPMENT SCHEDULE AND MISCELLANEOUS DETAILS
M-03	REFRIGERANT PIPING RISER SCHEMATIC DIAGRAM
	PRE-COOLED AIR AND TOILET EXHAUST RISER SCHEMATIC DIAGRAM
M-04	GROUND FLOOR A/C AND VENTILATION LAYOUT
M-05	SECOND FLOOR A/C AND VENTILATION LAYOUT
M-06	ROOF PLAN MECHANICAL EQUIPMENT LAYOUT
M-07	ENLARGED PLAN OF 1-BEDROOM SUITE A/C AND VENTILATION LAYOUT
M-08	MISCELLANEOUS DETAILS

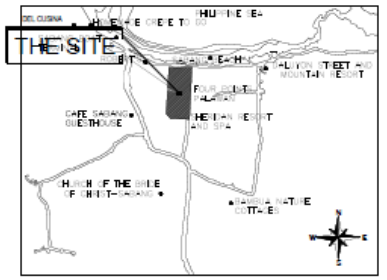
ABBREVIATIONS

CFM	–	CUBIC FEET PER MINUTE	TR	–	TONS OF REFRIGERATION
CMH	–	CUBIC METER PER HOUR	in. H_2O	–	INCHES OF WATER
TSP	–	TOTAL STATIC PRESSURE	Pa	–	PASCAL
FAG	–	FRESH AIR SUPPLY GRILLE	SAD	–	SUPPLY AIR DUCT
EAG	–	EXHAUST AIR GRILLE	EAD	–	EXHAUST AIR DUCT
FAF	–	FRESH AIR SUPPLY FAN	TED	–	TOILET EXHAUST AIR DUCT
EF	–	EXHAUST FAN	FAD	–	FRESH AIR DUCT
TEF	–	TOILET EXHAUST FAN			

GENERAL NOTES:

1. ALL SERVICE RUNS & CONNECTIONS, ACCESSORIES, AUXILIARY EQUIPMENT AND BUILDERS WORKS SHALL BE PROVIDED TO SUIT THE EQUIPMENT INCLUDED BY THE CONTRACTOR IN HIS TENDER, WHERE APPLICABLE AND WHERE INDICATED.
2. ALL DUCT DIMENSIONS INDICATED INSIDE CLEAR DIMENSIONS AND ARE IN MILIMETER, UNLESS OTHERWISE INDICATED.
3. ALL PIPE SIZES ARE IN MILIMETER.
4. ALL PRESSURE DROPS INDICATED IN SCHEDULES AND DRAWINGS ARE FOR GUIDANCE ONLY. CONTRACTOR TO CHECK THE ABOVE AGAINST EQUIPMENT, FITTINGS AND UNITS INSTALLED AS PER SHOP DRAWINGS SUBMITTED FOR APPROVAL.
5. PIPE ROUTING COULD BE MODIFIED TO SUIT FINAL EQUIPMENT SELECTION & LOCATION.
6. PROVIDE CEILING ACCESS TO ALL EQUIPMENT INSTALLED ABOVE FALSE CEILING.
7. ALL OPENINGS FOR DUCTS AND PIPES SHALL NOT IN ANY WAY PENETRATE A STRUCTURAL RIB OR BEAMS UNLESS OTHERWISE AUTHORIZED.
8. ALL DUCT WORK AND PIPE WORK IN AREAS WITH SUSPENDED CEILING SHALL RUN IN THE SUSPENDED CEILING VOID UNLESS OTHERWISE NOTED.
9. MINIMUM SIZE OF CONDENSATE DRAIN PIPES SHALL BE 25MM.

VICINITY MAP



EQUIPMENT SCHEDULE

TOILET EXHAUST FAN/ EXHAUST FAN SCHEDULE

MARK	QTY.	DESCRIPTION	AIR VOLUME CAPACITY CFM (CMH)	ELECTRICAL CHARACTERISTIC DATA HP	VOLTS	PHASE	HERTZ	TSP Pa (in. H2O)	MAXIMUM RPM	DRIVE TYPE	AREA SERVED	REMARKS
TEF 1	48	CEILING MOUNT VENTILATING FAN	90 (85)	0.25	230	1	60	–	1000	DIRECT DRIVE	–	SIMILAR TO "DOSA" MODEL NO. 170JF OR ITS APPROVED EQUAL

SUPPLY/RETURN/EXHAUST AIR DIFFUSERS/REGISTERS SCHEDULE

MARK	DESCRIPTION	AIR FLOW RANGE CFM (CMH)	SIZE mm (in)	REMARKS
FAG 1	FRESH AIR GRILLE, HORIZONTAL FACE BARS, SINGLE DEFLECTION	57–165 (97–313)	150 x 150 (6 x 6)	SIMILAR TO TITTLE A BAILEY, MODEL T30 OR ITS APPROVED EQUAL, COLOR AND FINISH SHALL BE AS PER ID SPECIFICATIONS.
EAG 1	EXHAUST AIR GRILLE, HORIZONTAL FACE BARS, 0° BLADE DEFLECTION	57–165 (97–313)	150 x 150 (6 x 6)	SIMILAR TO TITTLE A BAILEY, MODEL T30 OR ITS APPROVED EQUAL, COLOR AND FINISH SHALL BE AS PER ID SPECIFICATIONS.

AIR-CONDITIONING UNITS (VRF SYSTEM)

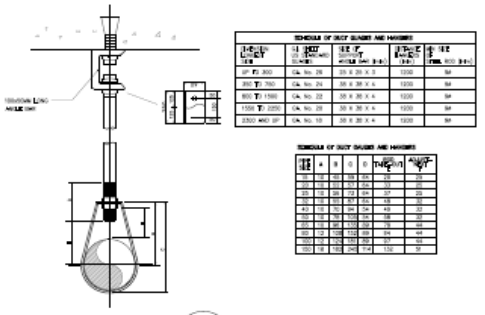
SYSTEM 1

INDOOR UNIT

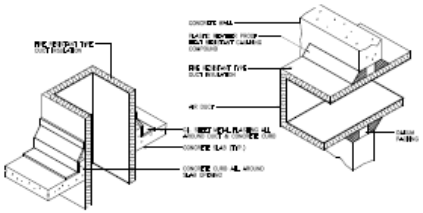
DESIGNATION	QTY.	COOLING CAPACITY KW	COOLING CAPACITY TR	TYPE	AIR FLOW CFM	ELECTRICAL DATA KW	VOLTS	PHASE	HERTZ	PIPE SIZE (MM) LIQUID	PIPE SIZE (MM) GAS	DIMENSION W x H x D	AREA SERVED
FCU-1	12	7.09	2.0	1 WAY CASSETTE WIND FREE	494–600	0.080	230	1	60	9.52ø	15.88ø	1,200 x 138 x 450	GUEST ROOMS
APU-1	1	14.0	4.0	AIR PROCESSING UNIT (DUCTED CONCEALED)	635	0.22	230	1	60	9.52ø	15.88ø	1,110 x 390 x 650	GROUND FLOOR

OUTDOOR UNIT

DESIGNATION	QTY.	COOLING CAPACITY KW	COOLING CAPACITY TR	COMPRESSOR DATA QTY.	COMPRESSOR DATA MOTOR OUTPUT (KW)	DIMENSION W x H x D	REFRIGERANT	WEIGHT kg	ELECTRICAL DATA KW	VOLTS	PHASE	HERTZ	PIPE SIZE (MM) LIQUID	PIPE SIZE (MM) GAS	LOCATION
ACCU-1	1	45.0	12.8	1	–	1,295 x 1,695 x 765	410A	290	10.6	230	3	60	12.7ø	28.58ø	ROOF
	1	56.0	15.9	1	–	1,295 x 1,695 x 765	410A	298	11.45	230	3	60	15.88ø	28.58ø	ROOF



A PIPE HANGER
M-01 SCALE NTS



B DUCT THRU WALL/FLOOR DETAIL
M-01 SCALE NTS

ARCHITECT	PRC. NO.	PROJECT TITLE:	OWNER:	CONSULTING ENGINEER:	PRC. NO. 4280	DESIGN DATE: APR. 30, 2021	SHEET CONTENTS	SHEET NO.
	DATE:	PROPOSED INTERIOR RENOVATION OF BUILDING A	JECO DEVELOPMENT CORP. JEFFERSON C. TAN	FRANCIS ROBERTO S. GUEVARA PROFESSIONAL MECHANICAL ENGINEER	PTR NO. 8534610	DRAWN BY: JV/AS	DRAWING INDEX, GENERAL NOTES, ABBREVIATION AND EQUIPMENT SCHEDULE AND MISCELLANEOUS DETAILS	M-01
	PTR NO.				T.I.N. 197-774-134	DRAWING PHASE: CONTRACT DOCUMENT		
	DATE:				DATE: 01/05/21	REVISION NO. / DESCRIPTION		
	T.I.N.	LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 2ND FLOOR, SHERIDAN BUILDING, OLIVAND AVE., NORTH RECLAMATION AREA, MANDAUE CITY, CEBU, PHILIPPINES 6014		PLACE MAKATI	SCALE AS SHOWN		JOB NO. 2019-00181

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EQUIPMENT SCHEDULE

AIR-CONDITIONING UNITS (VRF SYSTEM)

SYSTEM 2

INDOOR UNIT

DESIGNATION	QTY.	COOLING CAPACITY		TYPE	AIR FLOW CFM	ELECTRICAL DATA				PIPE SIZE (MM)		DIMENSION	AREA SERVED
		KW	TR			KW	VOLTS	PHASE	HERTZ	LIQUID	GAS	W x H x D	
FCU-1	12	7.09	2.0	1 WAY CASSETTE WIND FREE	494-600	0.080	230	1	60	9.52ø	15.88ø	1,200 x 138 x 450	GUEST ROOMS
APU-1	1	14.0	4.0	AIR PROCESSING UNIT (CEILING CONCEALED)	635	0.22	230	1	60	9.52ø	15.88ø	1,110 x 390 x 650	GROUND FLOOR

OUTDOOR UNIT

DESIGNATION	QTY.	COOLING CAPACITY		COMPRESSOR DATA		DIMENSION	REFRIGERANT	WEIGHT kg	ELECTRICAL DATA				PIPE SIZE (MM)		LOCATION
		KW	TR	QTY.	MOTOR OUTPUT (KW)	W x H x D			KW	VOLTS	PHASE	HERTZ	LIQUID	GAS	
ACCU-1	1	45.0	12.8	1	-	1,295 x 1,695 x 765	410A	290	10.6	230	3	60	12.7ø	28.58ø	ROOF
	1	56.0	15.9	1	-	1,295 x 1,695 x 765	410A	298	11.45	230	3	60	15.88ø	28.58ø	ROOF

SYSTEM 3

INDOOR UNIT

DESIGNATION	QTY.	COOLING CAPACITY		TYPE	AIR FLOW CFM	ELECTRICAL DATA				PIPE SIZE (MM)		DIMENSION	AREA SERVED
		KW	TR			KW	VOLTS	PHASE	HERTZ	LIQUID	GAS	W x H x D	
FCU-1	12	7.09	2.0	1 WAY CASSETTE WIND FREE	494-600	0.080	230	1	60	9.52ø	15.88ø	1,200 x 138 x 450	GUEST ROOMS
APU-1	1	14.0	4.0	AIR PROCESSING UNIT (CEILING CONCEALED)	635	0.22	230	1	60	9.52ø	15.88ø	1,110 x 390 x 650	SECOND FLOOR

OUTDOOR UNIT

DESIGNATION	QTY.	COOLING CAPACITY		COMPRESSOR DATA		DIMENSION	REFRIGERANT	WEIGHT kg	ELECTRICAL DATA				PIPE SIZE (MM)		LOCATION
		KW	TR	QTY.	MOTOR OUTPUT (KW)	W x H x D			KW	VOLTS	PHASE	HERTZ	LIQUID	GAS	
ACCU-1	1	45.0	12.8	1	-	1,295 x 1,695 x 765	410A	290	10.6	230	3	60	12.7ø	28.58ø	ROOF
	1	56.0	15.9	1	-	1,295 x 1,695 x 765	410A	298	11.45	230	3	60	15.88ø	28.58ø	ROOF

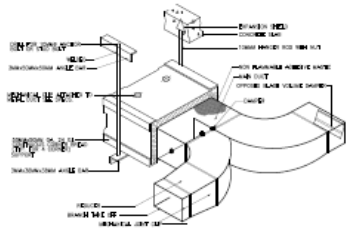
SYSTEM 4

INDOOR UNIT

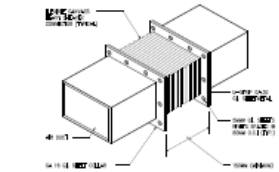
DESIGNATION	QTY.	COOLING CAPACITY		TYPE	AIR FLOW CFM	ELECTRICAL DATA				PIPE SIZE (MM)		DIMENSION	AREA SERVED
		KW	TR			KW	VOLTS	PHASE	HERTZ	LIQUID	GAS	W x H x D	
FCU-1	12	7.09	2.0	1 WAY CASSETTE WIND FREE	494-600	0.080	230	1	60	9.52ø	15.88ø	1,200 x 138 x 450	GUEST ROOMS
APU-1	1	14.0	4.0	AIR PROCESSING UNIT (CEILING CONCEALED)	635	0.22	230	1	60	9.52ø	15.88ø	1,110 x 390 x 650	SECOND FLOOR

OUTDOOR UNIT

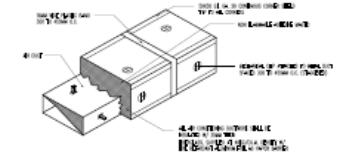
DESIGNATION	QTY.	COOLING CAPACITY		COMPRESSOR DATA		DIMENSION	REFRIGERANT	WEIGHT kg	ELECTRICAL DATA				PIPE SIZE (MM)		LOCATION
		KW	TR	QTY.	MOTOR OUTPUT (KW)	W x H x D			KW	VOLTS	PHASE	HERTZ	LIQUID	GAS	
ACCU-1	1	45.0	12.8	1	-	1,295 x 1,695 x 765	410A	290	10.6	230	3	60	12.7ø	28.58ø	ROOF
	1	56.0	15.9	1	-	1,295 x 1,695 x 765	410A	298	11.45	230	3	60	15.88ø	28.58ø	ROOF



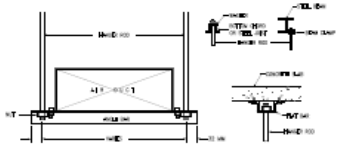
A M-02 TYPICAL FLEXIBLE DUCT DETAIL
SCALE NTS



B M-02 TYPICAL FLEXIBLE DUCT DETAIL
SCALE NTS



C M-02 DUCT INSULATION DETAIL
SCALE NTS



D M-02 DUCT HANGER DETAIL
SCALE NTS

ARCHITECT	PRC. NO.	PROJECT TITLE:	OWNER:	CONSULTING ENGINEER:	PRC. NO. 4280	DESIGN DATE: APR. 01, 2021	SHEET CONTENTS	SHEET NO.
	DATE:	PROPOSED INTERIOR RENOVATION OF BUILDING A	JECO DEVELOPMENT CORP.	FRANCIS ROBERTO S. GUEVARA	PTR NO. 8534610	DRAWN BY:	EQUIPMENT SCHEDULE AND MISCELLANEOUS DETAILS	M-02
	PTR NO.		JEFFERSON C. TAN	PROFESSIONAL MECHANICAL ENGINEER	T.I.N. 197-774-134	DRAWING PHASE: CONTRACT DOCUMENT		
	DATE:				DATE: 01/05/21	REVISION NO. DESCRIPTION:		
	T.I.N.	LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 2ND FLOOR, SHERIDAN BUILDING, OSMEÑA AVE., NORTH RECLAMATION AREA, MANDAUE CITY, CEBU PHILIPPINES 6014		PLACE MAKATI	SCALE AS SHOWN		JOB NO. 2019-00081

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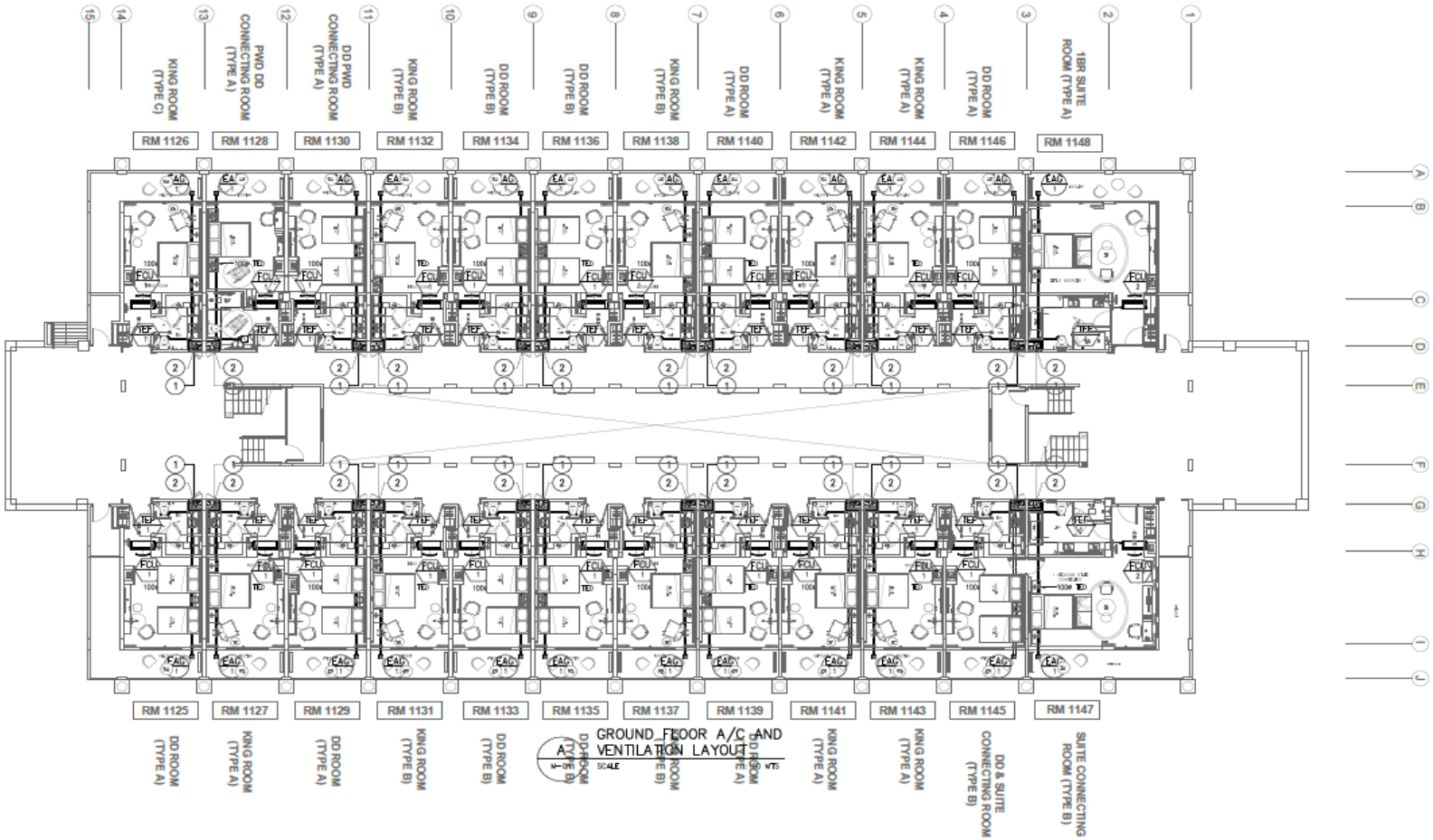
DRAWING NOTES

1. VRF REFRIGERANT LINE RISER FROM GROUND FLOOR UP TO ROOF DECK
2. VRF REFRIGERANT LINE RISER FROM SECOND FLOOR UP TO ROOF DECK



GROUND FLOOR A/C AND VENTILATION LAYOUT
SCALE: NTS

ARCHITECT	PRC. NO.	PROJECT TITLE:	OWNER:	CONSULTING ENGINEER:	PRC. NO. 4280	DESIGN DATE: APRIL 30, 2021	SHEET CONTENTS	SHEET NO.
	DATE:	PROPOSED INTERIOR RENOVATION OF BUILDING A	JECO DEVELOPMENT CORP. JEFFERSON C. TAN	FRANCIS ROBERTO S. GUEVARA PROFESSIONAL MECHANICAL ENGINEER	PTR NO. 8534610	DRAWN BY: LIS/ND	GROUND FLOOR A/C AND VENTILATION LAYOUT	M-04
	PTR NO.				T.I.N. 197-774-134	DRAWING PHASE: CONTRACT DOCUMENT		
	DATE:				DATE: 01/05/21	REVISION NO. / DESCRIPTION:		
	T.I.N.	LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 2ND FLOOR, SHERIDAN BUILDING, OSMEÑA AVE., NORTH RECLAMATION AREA, MANDAUE CITY, CEBU PHILIPPINES 6014		PLACE MAKATI		SCALE AS SHOWN	JOB NO. 2019-00181

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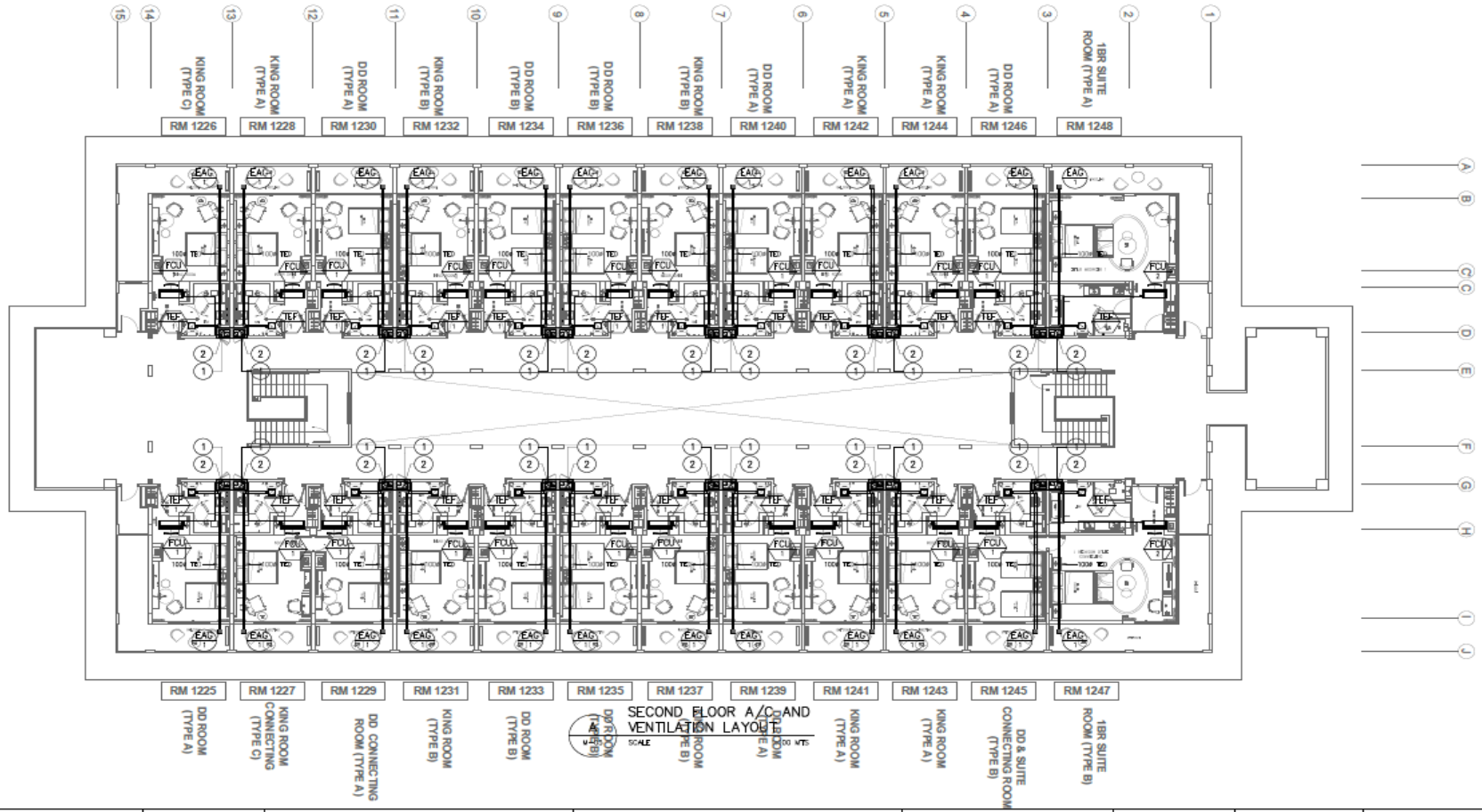
DRAWING NOTES

1. VRF REFRIGERANT LINE RISER FROM GROUND FLOOR UP TO ROOF DECK
2. VRF REFRIGERANT LINE RISER FROM SECOND FLOOR UP TO ROOF DECK



SECOND FLOOR A/C AND VENTILATION LAYOUT
SCALE 1:100 MTS

ARCHITECT	PRC. NO.	PROJECT TITLE:	OWNER:	CONSULTING ENGINEER:	PRC. NO. 4280	DESIGN DATE: APRIL 01, 2021	SHEET CONTENTS	SHEET NO.
	DATE:	PROPOSED INTERIOR RENOVATION OF BUILDING A	JECO DEVELOPMENT CORP. JEFFERSON C. TAN	FRANCIS ROBERTO S. GUEVARA PROFESSIONAL MECHANICAL ENGINEER	PTR NO. 8534610	DRAWN BY: GIANN	SECOND FLOOR A/C AND VENTILATION LAYOUT	M-05
	PTR NO.				T.I.N. 197-774-134	DRAWING PHASE: CONTRACT DOCUMENT		
	DATE:				DATE: 01/05/21	REVISION NO. / DESCRIPTION		
	T.I.N.	LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 2ND FLOOR, SHERIDAN BUILDING, OLIVAS AVE., NORTH RECLAMATION AREA, MANDAUE CITY, CEBU PHILIPPINES 6014		PLACE MAKATI		SCALE AS SHOWN	JOB NO. 2019-00181

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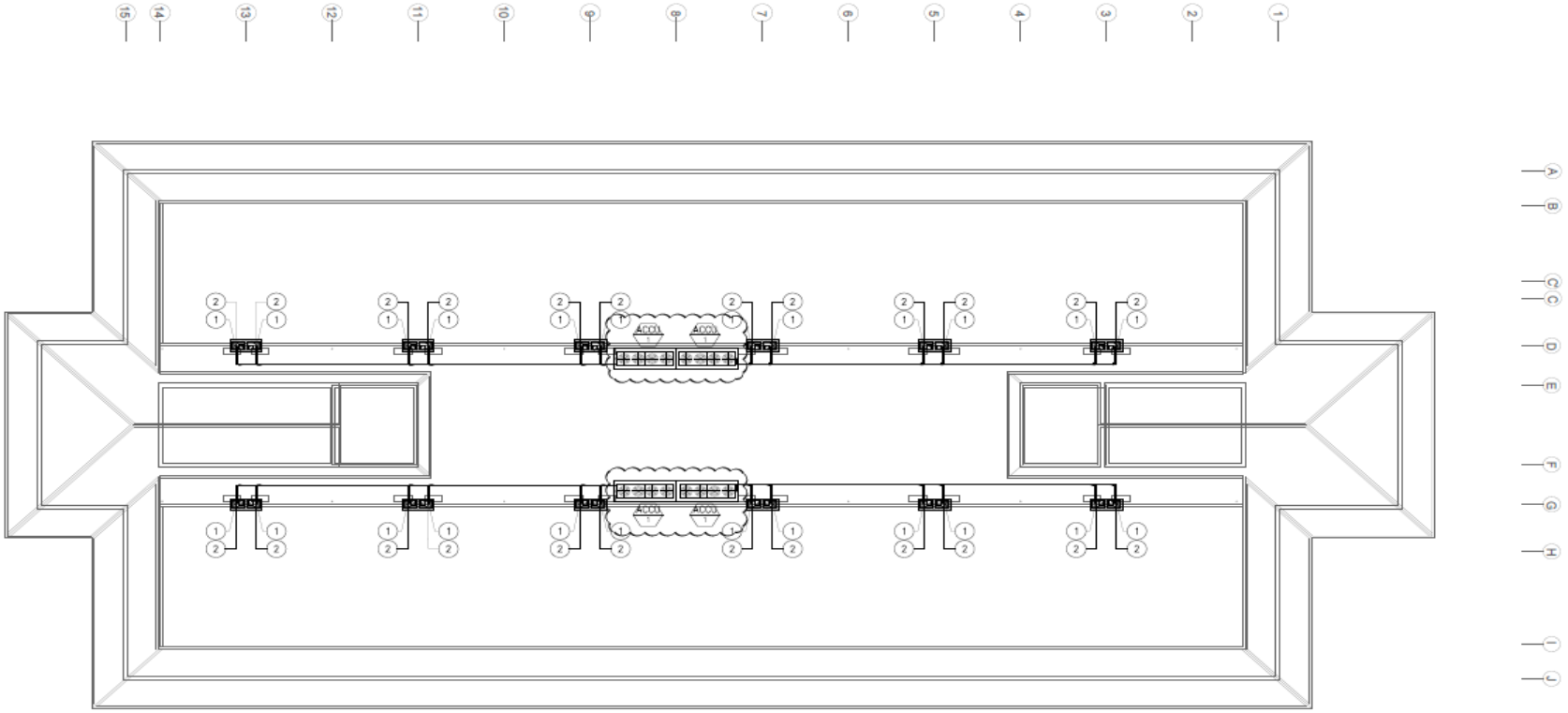
DRAWING NOTES

1. VRF REFRIGERANT LINE RISER FROM GROUND FLOOR UP TO ROOF DECK
2. VRF REFRIGERANT LINE RISER FROM SECOND FLOOR UP TO ROOF DECK



A M-06 ROOF PLAN MECHANICAL EQUIPMENT LAYOUT
SCALE 1:100 MTS

	ARCHITECT	PRC. NO.	PROJECT TITLE:	OWNER:	CONSULTING ENGINEER:	PRC. NO. 4280	DRAWN DATE: APR. 8, 2021	SHEET CONTENTS	SHEET NO.
		DATE:	PROPOSED INTERIOR RENOVATION OF BUILDING A	JECO DEVELOPMENT CORP. JEFFERSON C. TAN	FRANCIS ROBERTO S. GUEVARA PROFESSIONAL MECHANICAL ENGINEER	PTR NO. 8534610	DRAWN BY: DR/RDS	ROOF PLAN MECHANICAL EQUIPMENT LAYOUT	M-06
		PTR NO.				T.I.N. 197-774-134	DRAWING PHASE: CONTRACT DOCUMENT		
		DATE:				DATE: 01/05/21	REVISION NO. DESCRIPTION		
		T.I.N.	LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 2ND FLOOR, SHERIDAN BUILDING, OLIVAO AVE., NORTH RECLAMATION AREA, MANDALUE CITY, CEBU PHILIPPINES 6014		PLACE MAKATI	SCALE AS SHOWN		JOB NO. 2019-00181

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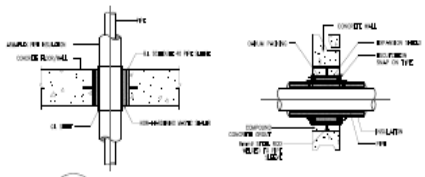
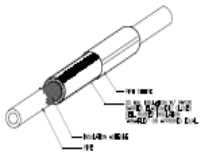
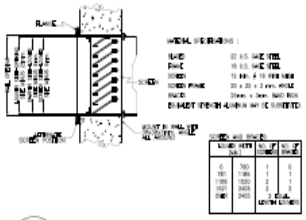


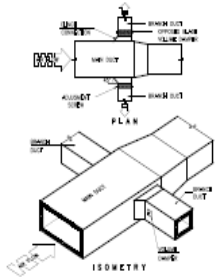
A DETAIL OF PIPE THRU WALL/FLOOR
M-08 SCALE NTS



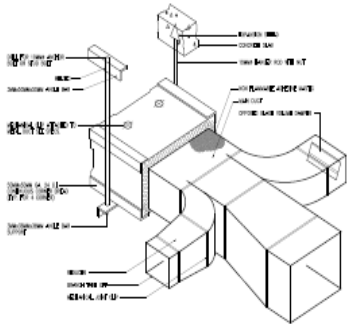
B PIPE INSULATION DETAIL (EXPOSED TO WEATHER)
M-08 SCALE NTS



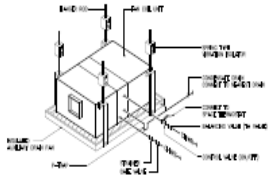
C SUPPLY/EXHAUST WALL GRILLE
M-08 SCALE NTS



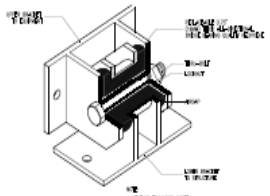
D TYPICAL BRANCH DUCT
M-08 SCALE NTS



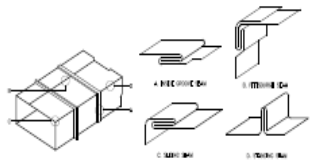
E BRANCH TAKE – OFF DETAIL
M-08 SCALE NTS



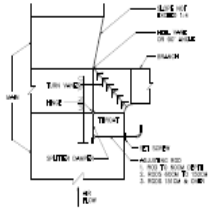
F TYPICAL FAN COIL UNIT MOUNTING & CONNECTION DETAIL
M-08 SCALE NTS



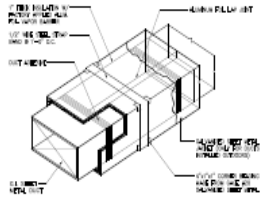
G ALL–DIRECTIONAL SEISMIC SNUBBER DETAIL
M-08 SCALE NTS



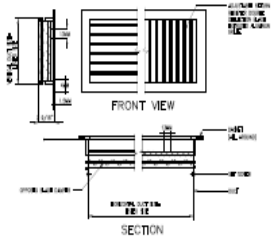
H LOW VELOCITY DUCTWORK AND REINFORCING SCHEDULE
M-08 NONE NTS



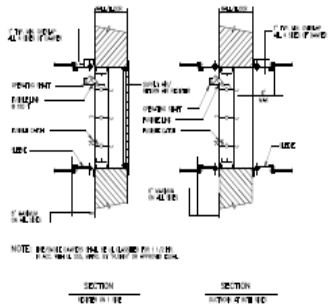
I SQUARE BRANCH TAKE–OFF DETAILS FROM MAIN
M-08 SCALE NTS



J DUCT INSULATION DETAIL (INDOOR)
M-08 SCALE NTS



K RETURN REGISTER (LOW LEVEL)
M-08 SCALE NTS



L FIRE/SMOKE DAMPER INSTALLATION DETAIL
M-08 SCALE NTS

ARCHITECT	PRC. NO.	PROJECT TITLE:	OWNER:	CONSULTING ENGINEER:	PRC. NO. 4280	DESIGN DATE: APRIL 30, 2021	SHEET CONTENTS	SHEET NO.
	DATE:	PROPOSED INTERIOR RENOVATION OF BUILDING A	JECO DEVELOPMENT CORP.	FRANCIS ROBERTO S. GUEVARA	PTR NO. 8534610	DRAWN BY: HAJAN	MISCELLANEOUS DETAILS	M-08
	PTR NO.		JEFFERSON C. TAN	PROFESSIONAL MECHANICAL ENGINEER	T.I.N. 197-774-134	DRAWING PHASE: CONTRACT DOCUMENT		
	DATE:				DATE: 01/05/21	REVISION NO. DESCRIPTION		
	T.I.N.	LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 2ND FLOOR, SHRIDAN BUILDING, DUANO AVE., NORTH RECLAMATION AREA, MANDALUE CITY, CEBU PHILIPPINES 6014		PLACE MAKATI	SCALE: AS SHOWN		JOB NO. 2019-00181

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DRAWING INDEX

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SERIES 0-000	COVER				
A-0000	COVER PAGE				
A-0001	PERSPECTIVE, SITE DEVELOPMENT PLAN, VICINITY MAP, LOCATION MAP				
A-0002	DRAWING INDEX				
SERIES 0-100	BUILDING PLANS				
A-0101	ADD FLOOR PLAN AND				
A-0102	ROOF PLAN				
SERIES 0-200	GENERAL ELEVATIONS				
A-0201	ELEVATIONS				
SERIES 0-300	GENERAL SECTIONS				
A-0301	SECTIONS				
SERIES 0-500	REFLECTED CEILING PLANS				
A-0501	REFLECTED CEILING PLAN				
SERIES 0-600	TOILET DETAILS				
A-0651	STAFF TOILET, MALE AND FEMALE TOILET				
A-0652	PWD TOILET				
SERIES 0-900	SCHEDULES				
A-0901	DOORS SCHEDULE				
A-0951	WINDOWS SCHEDULE				

GENERAL ARCHITECTURAL NOTES

1.0 THE CONTRACTOR SHALL VISIT THE SITE AND BE KNOWLEDGEABLE OF CONDITIONS THEREON. HE SHALL INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT AND SHALL NOTIFY CM OF ANY CONDITIONS REQUIRING MODIFICATION BEFORE PROCEEDING WITH THE WORK.

2.0 THE STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS ARE EQUAL IMPORTANCE WITH THE ARCHITECTURAL DRAWINGS IN DEFINING THE SCOPE OF THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE INSTALLATION OF THE STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER DISCIPLINE WORK. SHOULD THERE BE ANY DISCREPANCY BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS THAT WOULD CAUSE AN AWKWARD OR IMPROPER INSTALLATION, IT SHALL BE BROUGHT TO THE OF REPRESENTATIVE'S ATTENTION FOR CLARIFICATION PRIOR TO INSTALLATION OF THE WORK. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT'S OFFICE.

3.0 SUBCONTRACTORS FOR EACH TRADE ARE ADVISED THAT INFORMATION PERTINENT TO THEIR WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS. REFER TO CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND OTHER TRADES DISCIPLINE DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATION AND SYMBOLS. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING COMPONENTS. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON ANY ONE SHEETS ARE TO BE APPLIED ON RELATED DRAWINGS AND DETAILS.

4.0 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF BUILDINGS ON THE SITE.

5.0 THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, THE ARCHUCM REPRESENTATIVE SHALL BE NOTIFIED FOR CLARIFICATION BEFORE COMMENCING THE WORK.

6.0 DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE CM REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.

7.0 ANY DETAILS, SYSTEMS, MATERIALS, (I.E. ARCHITECTURAL, STRUCTURAL, MECHANICAL, ETC.) WHICH ARE PROPOSED TO BE THE CHANGED MUST FIRST BE REVIEWED BY CM REPRESENTATIVE, ARCHITECT AND GENERAL CONTRACTOR PRIOR TO THE PREPARATION OF SHOP DRAWINGS.

8.0 PRIOR TO COMMENCEMENT OF WORKS ON SITE TEMPORARY ENCLOSURES TO BE ERECTED AS PER REQUIREMENTS TO ISOLATE WORK AREAS FROM AREAS UNDER USE OR DEVELOPMENT UNDER SEPARATE CONTRACTS.

9.0 WORKS MUST BE CARRIED OUT IN CLOSE COORDINATION TO MINIMIZE ANY INCONVENIENCE - NOISE, DUST SMELL AND ACCESS TO OTHER OPERATIONS.

10.0 CONTRACTOR SHALL OBTAIN APPROVAL, LEASE AND PREPARE LAYOUT DRAWING FOR TEMPORARY ENCLOSURE.

11.0 DRAWING SHALL NOT BE SCALED, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.

12.0 CONTRACTOR SHALL CARRY OUT ALL ASSOCIATED WORKS OUTSIDE SCOPE OF WORK LIMIT LINE FOR SERVICE TIE IN POINTS.

13.0 ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH THE WORK. THE CM REPRESENTATIVE SHALL BE NOTIFIED OF ANY CORRECTION.

14.0 GENERAL CONTRACTOR TO COORDINATE ALL EQUIPMENT BASE AND HOUSEKEEPING PADS WITH MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS. INSTALL THE PADS BENEATH THE FULL PROJECTED AREA OF EQUIPMENT.

15.0 GENERAL CONTRACTOR TO COORDINATE ALL MECHANICAL AND ELECTRICAL FLOOR, ROOF AND WALL SLEEVES AND MECHANICAL SHAFTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS.

16.0 REFER TO CERTIFIED MECHANICAL AND ELECTRICAL CONTRACTOR DRAWINGS AND MANUFACTURERS TEMPLATE DRAWINGS FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, BOLT SETTING TEMPLATES, ISOLATIONS, SPRIN ISOLATION, ETC., NOT SHOWN ON THE DRAWINGS. CONTRACTOR SHALL BE DEEMED TO HAVE ALLOWED IN HIS TENDER FOR ALL NECESSARY WORKS IN ACCORDANCE.

17.0 FIRE DAMPERS SHALL BE PROVIDED AS SHOWN AND WHEREVER AIR DUCT PENETRATE FIRE-RATED WALLS OR CEILINGS. FIRE DAMPERS SHALL BE FIRE DEPARTMENT LISTED AND APPROVED.

18.0 ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID MOLECULAR BREAKDOWN.

19.0 ALL ELEVATOR OPENINGS SHALL BE CERTIFIED BY THE ELEVATOR SUBCONTRACTOR PRIOR TO FORMING. REQUIRED MODIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER FOR APPROVAL PRIOR TO FORMING. CONTRACTOR SHALL BE DEEMED TO HAVE ALLOWED IN HIS TENDER FOR CONSTRUCTING ELEVATOR SHAFTS IN EVERY RESPECT TO COMPLY WITH HIS CHOSEN ELEVATOR SUB-CONTRACTOR REQUIREMENTS WHERE THEY DIFFER FROM THE TENDER DRAWINGS.

20.0 PROVIDE ACCESS PANELS REQUIRED BY APPLICABLE CODES AND AS REQUIRED FOR MECHANICAL EQUIPMENT, AND THE CONTRACTOR SHALL BE DEEMED TO HAVE ALLOWED FOR THESE IN HIS TENDER WHETHER OR NOT THEY ARE INDICATED ON DRAWINGS. ALL ACCESS PANELS SHALL BE CONCEALED AND LOCATIONS SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO PROCEEDING.

21.0 WHERE DISCREPANCIES EXIST BETWEEN THE DRAWINGS OF THE VARIOUS TRADES, CONSULT THE CM REPRESENTATIVE BEFORE PROCEEDING WITH WORK.

22.0 THE CONTRACTOR SHALL FURNISH AND INSTALL ALL STIFFENERS, BRACINGS, BACKING PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE PROPER INSTALLATION OF ALL CASEWORK, TOILET ROOM ACCESSORIES AND TOILET PARTITIONS, AS WELL AS ALL WALL-MOUNTED OR SUSPENDED MECHANICAL, ELECTRICAL AND/OR MISCELLANEOUS EQUIPMENT AND THE CONTRACTOR SHALL BE DEEMED TO HAVE ALLOWED FOR THESE IN HIS TENDER WHETHER SHOWN OR NOT, INCLUDING OFCI ITEMS.

23.0 WHETHER OR NOT EXPLICITLY INDICATED, ALL GLAZING SHALL BE SAFETY GLAZED WHEN WITHIN 450 mm OF THE FLOOR OR WITHIN 900 mm HORIZONTAL DISTANCE FROM ANY DOOR. A CERTIFICATE MUST ACCOMPANY ALL GLAZING PRODUCTS STATING THAT THE PRODUCTS CONFORM WITH APPLICABLE CONSUMER PRODUCT SAFETY STANDARDS.

24.0 ALL EXTERIOR HANDRAILS AND EXTERIOR EXPOSED METAL SHALL BE GALVANIZED AND PAINTED UNLESS NOTED OTHERWISE, AS PER SPECIFICATIONS.

25.0 ALL EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT PENETRATION OF UTILITIES THROUGHOUT THE ENVELOPE, SHALL BE SEALED, CAULKED OR WEATHERED-STRIPPED TO PREVENT AIR AND WATER LEAKAGE/INFILTRATION.

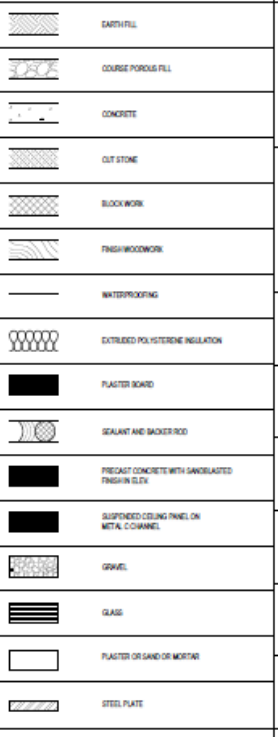
26.0 THE EXTERIOR WALL AS SHOWN BE PROVIDED BY THE EXTERIOR WALL CONTRACTOR AND SHALL BE A COMPLETE SYSTEM INCLUDING ALL BACK-UP FRAMING (OTHER THAN THE STRUCTURAL FRAME OF THE BUILDING), ALL STIFFENERS, CONNECTIONS, FASTENERS, FLASHING AIR BARRIERS, SEALANTS, DRAINAGE SYSTEMS, GASKETS, JOINT FILLERS, MISCELLANEOUS PIECES, AND MATERIAL THICKNESS AS REQUIRED TO FORM A WATERTIGHT AND AIRTIGHT ENCLOSURE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND THE PROFILE SHOWN.

27.0 ALL DETAIL DRAWINGS AS SHOWN ARE SCHEMATIC ONLY, AND CONNECTIONS, ANCHORS, ETC., SHALL BE COORDINATED WITH THE STRUCTURAL FRAMING AND OTHER BUILDING COMPONENTS, IN ORDER TO PROVIDE A COMPLETE ENCLOSURE OF FINISH MATERIALS. STRUCTURAL AND FIREPROOFING REQUIREMENTS SHALL COMPLY WITH COMPLETE ENCLOSURE OF FINISH MATERIALS. STRUCTURAL AND FIREPROOFING REQUIREMENTS SHALL COMPLY WITH APPLICABLE CODES AND REGULATIONS.

28.0 MAJOR ENTRANCE/EXIT DOORS SHALL BE ACCESSIBLE WITH DISABILITY STANDARDS.

29.0 THE ABBREVIATIONS & SYMBOLS LEGEND FOR OTHER DISCIPLINES SHALL BE REFERRED TO IN DISCIPLINARY DRAWINGS.

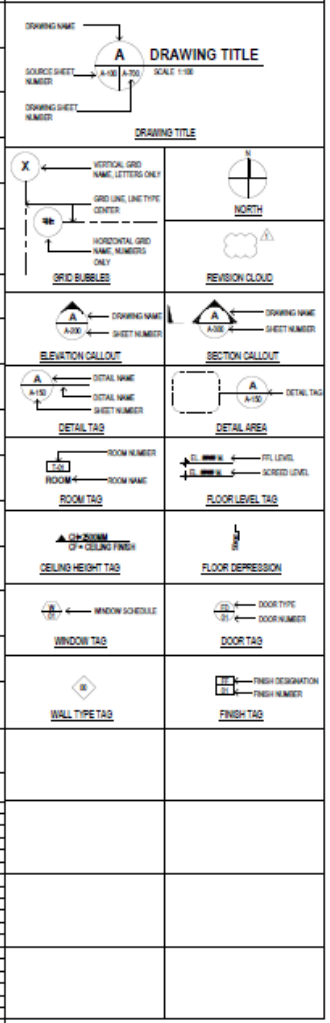
MATERIALS LEGEND



ABBREVIATIONS LEGEND

ALUM	ALUMINUM	N	NORTH
ALT	ALTERNATE	NTS	NOT TO SCALE
ARCH	ARCHITECT(URAL)	O.C.	ON CENTER
CL	CENTER LINE	R	RISER, RADIUS
CM	CONSTRUCTION MANAGEMENT		THERMAL RESISTANCE
CONC	CONCRETE	RCP	REFLECTED CEILING PLAN
DIA	DIAMETER	REF	REFERENCE, REFRIGERATION
DIM	DIMENSION	RM	ROOM
DN	DOWN	SERV	SERVICE
DWG	DRAWING	S	SOUTH
E	EAST	SHT	SHEET
EE	ELECTRICAL	SPEC	SPECIFICATION
EQ	EQUAL	SS	STAINLESS STEEL
EQUIP	EQUIPMENT	SSL	STRUCT. SLAB FIN. LEVEL/LINE
ELEV	ELEVATOR/ELEVATION	STD	STANDARD
FD	FLOOR DRAIN	STO	STORAGE
FFL	FINISH FLOOR LEVEL/LINE	STRUC	STRUCTURAL
FHC	FIRE HOSE CABINET	SUSP	SUSPENDED
FIN	FINISH	T	TREAD
FLR	FLOOR	TPL	TOP OF PARAPET LEVEL
FPL	FINISH PAVEMENT LEVEL	TOI	TOILET
FRL	FINISH ROAD LEVEL	URI	URINAL
GEN	GENSET	UTI	UTILITY
GALV	GALVANIZED	VERT	VERTICAL
HORIZ	HORIZONTAL	W	WEST
HR	HOUR	WC	WATER CLOSET
LVL	LEVEL	WVP	WASTE VENT PIPE
M	METER		
MH	MANHOLE		
MM	MILLIMETER		

ARCHITECTURAL SYMBOLS LEGEND



CASAS ARCHITECTS

DESIGN DEVELOPMENT

DATE: APRIL 2020

ALL MEASUREMENTS ARE TO BE VERIFIED ON SITE BY CONTRACTOR. ALL DISCREPANCIES ARE TO BE REPORTED TO ARCHITECT AND PROJECT MANAGER.
CONTRACTORS ARE TO PREPARE AND SUBMIT SHOP DRAWINGS TO ARCHITECT PRIOR TO COMMENCEMENT OF WORKS.

ARCHITECT	PRC. NO	0005411	SEAL
	DATE:	07–22–2020	
	PTR NO.	8126200	
DARWELD T. CASAS	DATE:	01–06–2020	
FIRM/BLDG. PERMIT OWNER: 3237 PASEO DE ROXAS AVENUE, SALCEDO VILLAGE, MAKATI CITY	T.I.N.	146–555–136	

PROJECT TITLE: FOUR POINTS BY SHERATON PALAWAN, PUERTO PRINCESA BY JECO DEVELOPMENT CORP.

LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES

OWNER: JECO DEVELOPMENT CORP.

ADDRESS: 3ND FLR., SHERIDAN BUILDING, DIANO ARE., NORTH RECLAMATION AREA, MANDAUE CITY, CEBU PHILIPPINES

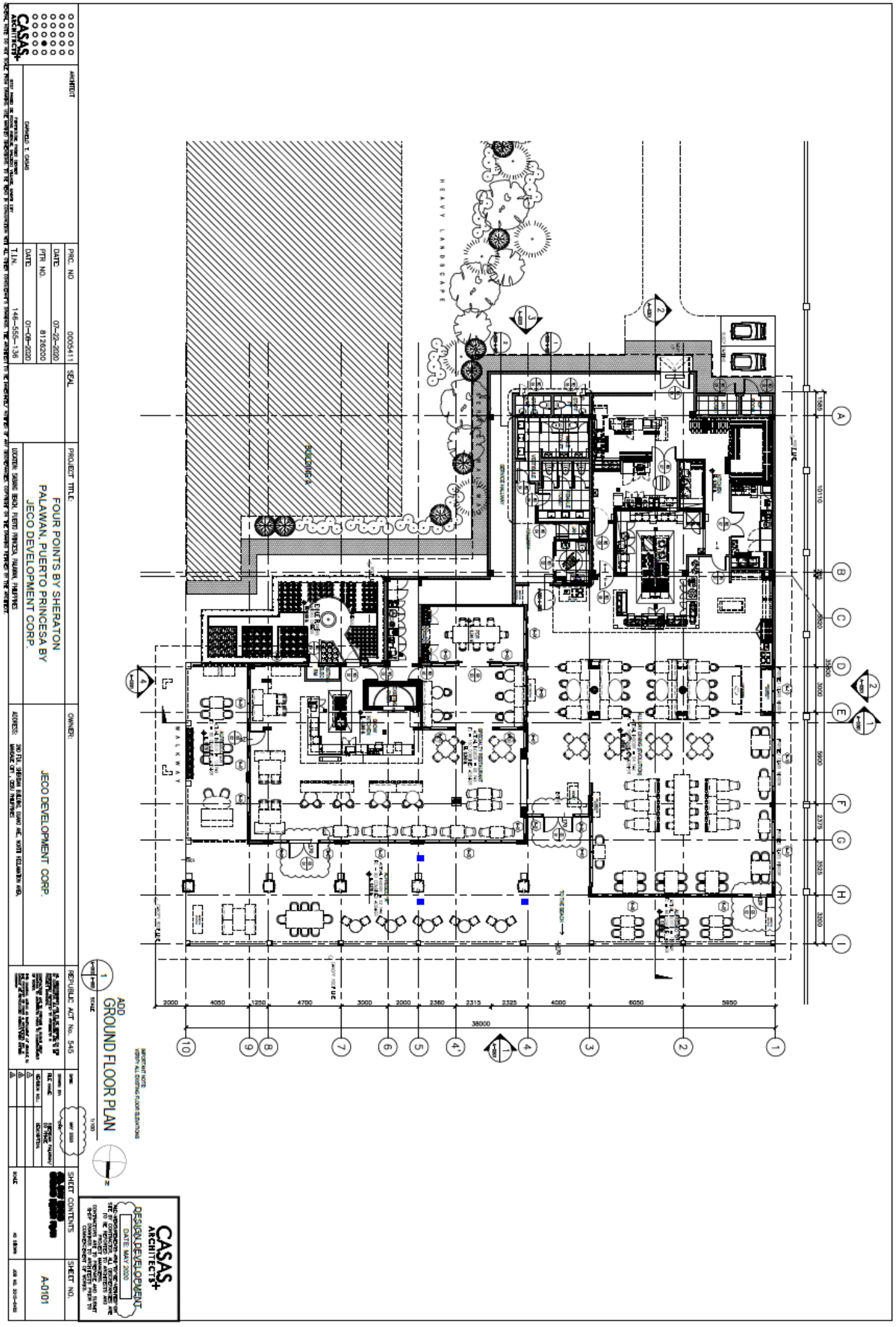
REPUBLIC ACT No. 545

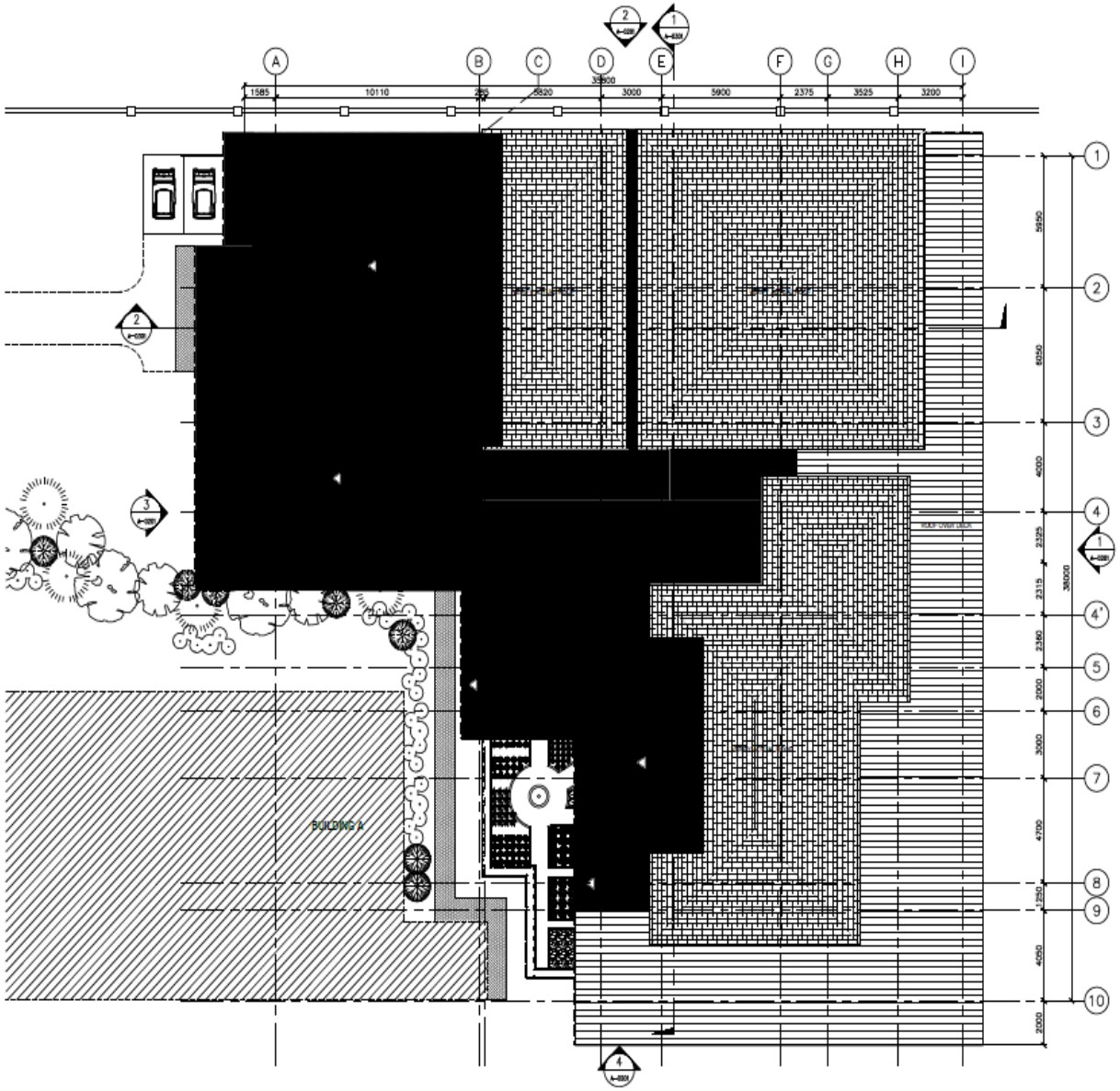
DATE	APRIL 2020
DRAWN BY	CHK
FILE NAME	PHILIPPINE PALAWAN TO PRINT
REVISION NO.	DESCRIPTION
SCALE	AS SHOWN
JOB NO.	2010–0402

SHEET CONTENTS: [redacted]

SHEET NO.: A-0002

GENERAL NOTE: DO NOT SCALE THIS DRAWING. USE WRITTEN DIMENSIONS. TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS. THE ARCHITECT TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES. COPYRIGHT ON THE DRAWING RESERVED BY THE ARCHITECT.


ADD
GROUND FLOOR PLAN
SCALE 1:100
IMPORTANT NOTE:
VERIFY ALL EXISTING FLOOR ELEVATIONS
FOUR POINTS BY SHERATON
PALAWAN, PUERTO PRINCESA BY
JECO DEVELOPMENT CORP.
JECO DEVELOPMENT CORP.
CASAS ARCHITECTS+
DESIGN DEVELOPMENT
DATE MAY 2020
A-0101
SHEET NO.
SHEET CONTENTS
REPUBLIC ACT No. 545
PROJECT TITLE:
OWNER:
SEAL
PRC. NO 0005411
DATE: 07-22-2020
PTR NO. 8126200
DATE: 01-08-2020
T.I.N. 146-555-136
ARCHITECT
DARWIN T. CASAS
ARCHITECTS+
DO NOT SCALE PRINT DRAWING. THE ARCHITECT TO BE NOTIFIED THEREOF IN ANY DISCREPANCY. COPYRIGHT IN THE DRAWINGS VESTED IN THE ARCHITECT.

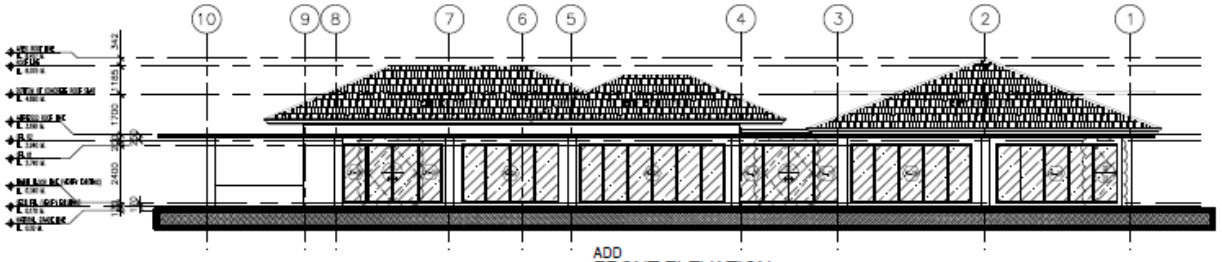


ADD
ROOF PLAN
SCALE 1:100

CASAS ARCHITECTS+
DESIGN DEVELOPMENT
DATE: MAY 2020
ALL REQUIREMENTS ARE TO BE VERIFIED ON SITE BY CONTRACTOR. ALL DISCREPANCIES ARE TO BE REPORTED TO ARCHITECTS AND PROJECT MANAGERS.
CONTRACTORS ARE TO PREPARE AND SUBMIT SHOP DRAWINGS TO ARCHITECTS PRIOR TO COMMENCEMENT OF WORKS.

ARCHITECT: CASAS ARCHITECTS+ DARWELD T. CASAS	PRC. NO 0005411	SEAL	PROJECT TITLE: FOUR POINTS BY SHERATON PALAWAN, PUERTO PRINCESA BY JECO DEVELOPMENT CORP.	OWNER: JECO DEVELOPMENT CORP.	REPUBLIC ACT No. 545	SHEET CONTENTS	SHEET NO. A-0102
	DATE: 07-22-2020						
	PTR NO. 8126200						
	DATE: 01-08-2020						
	T.I.N. 146-555-136		LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 2ND FLR., SHERIDAN BUILDING, OSMAK AVE., NORTH RECLAMATION AREA, MANDAUE CITY, CEBU PHILIPPINES			

GENERAL NOTE: DO NOT SCALE. FIELD DRAWINGS TAKE MARKED DIMENSIONS. TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANT'S DRAWINGS. THE ARCHITECT TO BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES. COPYRIGHT ON THE DRAWINGS REMAINS BY THE ARCHITECT.



ADD
FRONT ELEVATION
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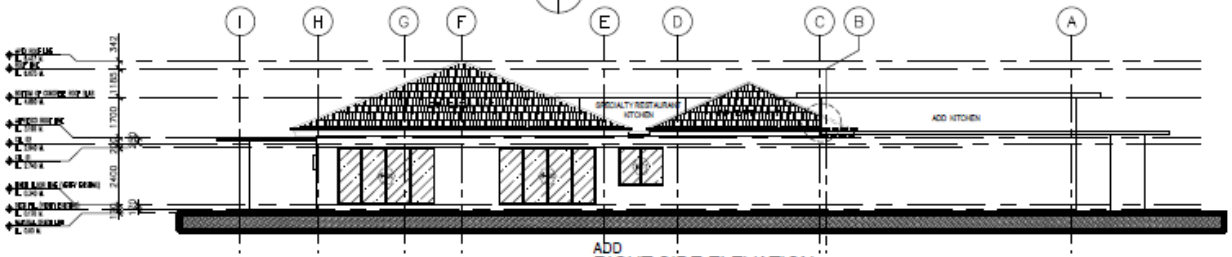

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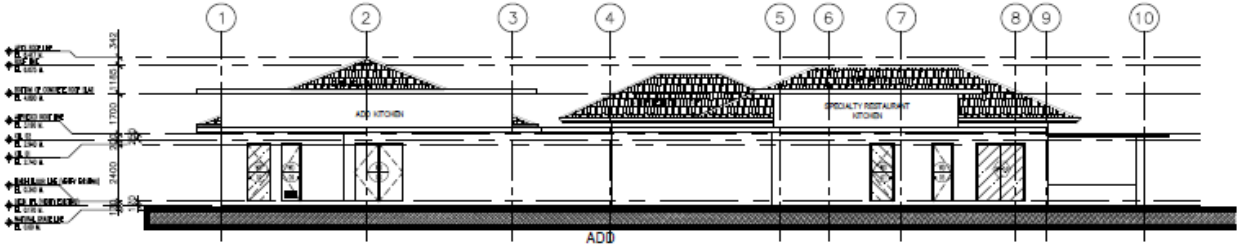

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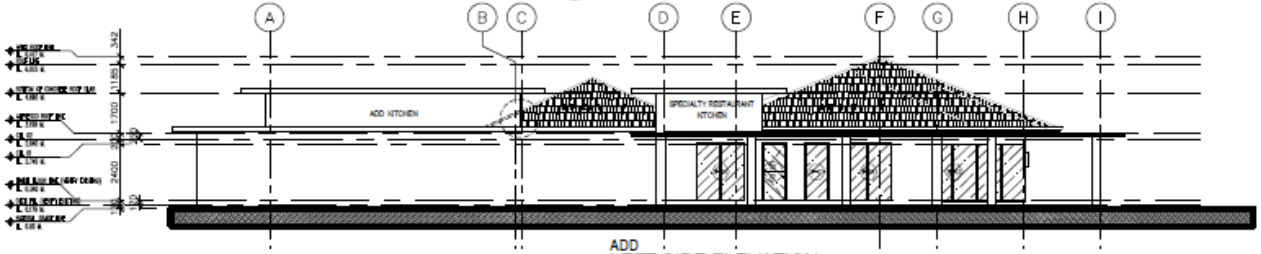
REAR ELEVATION
3 SCALE 1:100



ADD
LEFT SIDE ELEVATION
4 SCALE 1:100

CASAS ARCHITECTS+
DESIGN DEVELOPMENT
DATE: MAY 2020
ALL RECOMMENDATIONS ARE TO BE VERIFIED ON SITE BY CONTRACTOR. ALL DISCREPANCIES ARE TO BE REPORTED TO ARCHITECTS AND PROJECT MANAGERS.
CONTRACTORS ARE TO PREPARE AND SUBMIT SHOP DRAWINGS TO ARCHITECTS PRIOR TO COMMENCEMENT OF WORKS.

CASAS ARCHITECTS+

ARCHITECT
CARMELO T. CASAS
PRC. NO. 0005411
DATE: 07-22-2020
PTR NO. 8126200
DATE: 01-08-2020
T.I.N. 146-555-136

SEAL

PROJECT TITLE:
FOUR POINTS BY SHERATON
PALAWAN, PUERTO PRINCESA BY
JECO DEVELOPMENT CORP.
LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES

OWNER:
JECO DEVELOPMENT CORP.
ADDRESS: 3RD FLR. SHERIDAN BUILDING, OSMAK AVE., NORTH RECLAMATION AREA, MANDAUE CITY, CEBU PHILIPPINES

REPUBLIC ACT No. 545

DATE: MAY 2020
DRAWN BY:
FILE NAME: [redacted]
REVISION NO. | DESCRIPTION
SCALE: AS SHOWN
JOB NO. 2010-0402

SHEET CONTENTS

SHEET NO.
A-0201

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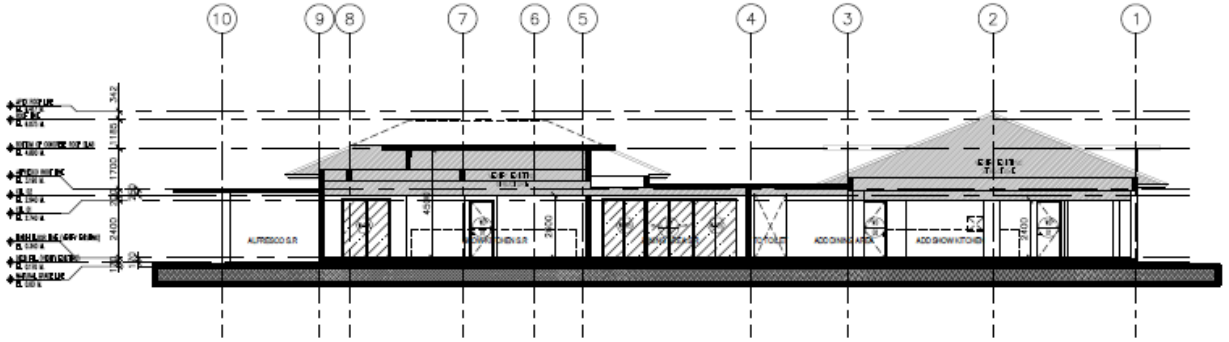

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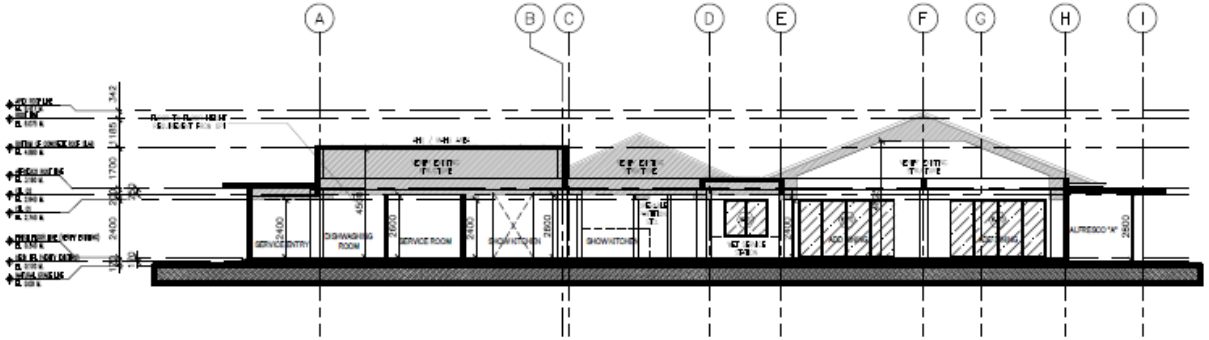
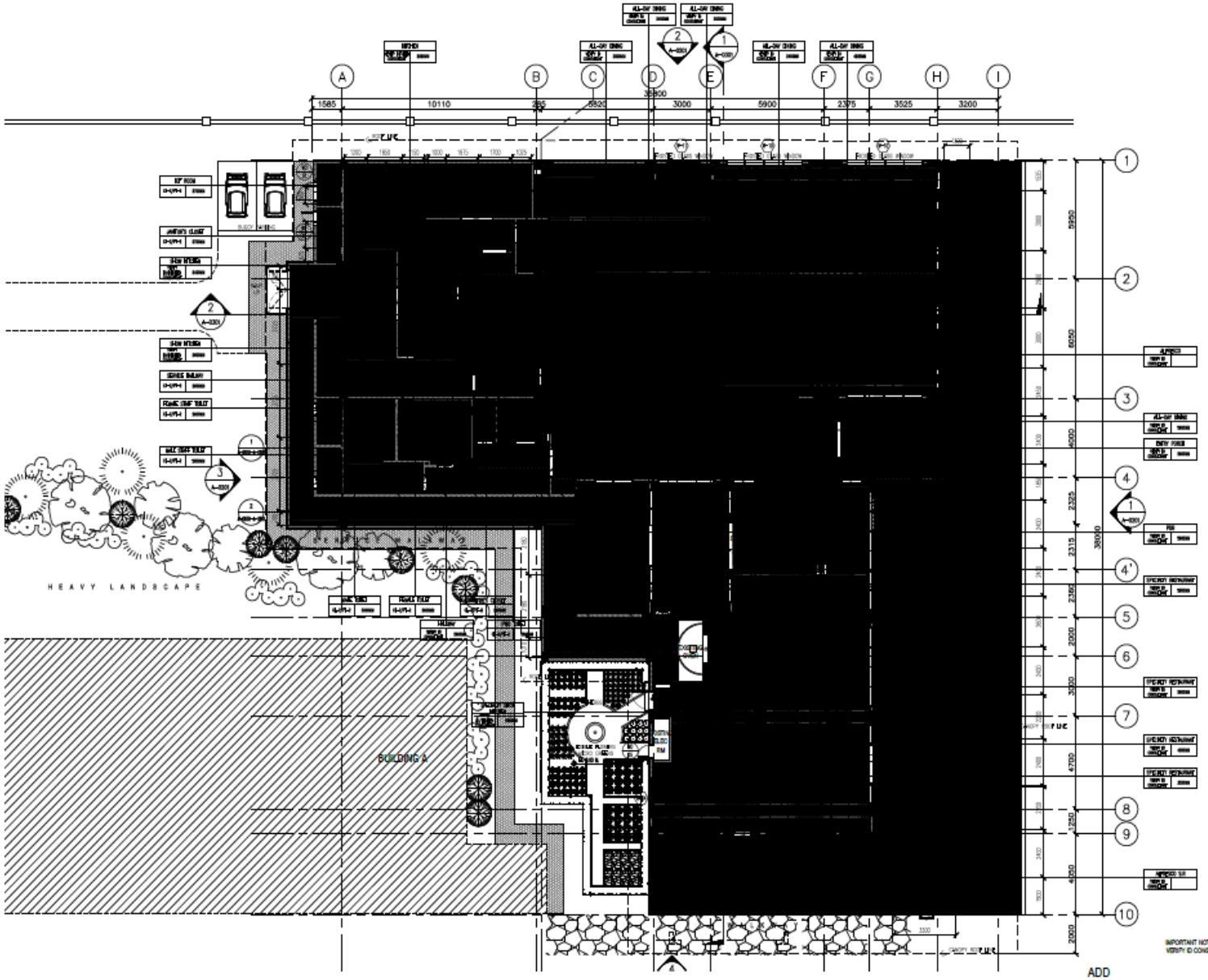


ADD
CROSS SECTION
2
SCALE 1:100

CASAS ARCHITECTS+
DESIGN DEVELOPMENT
DATE: APRIL 2020
ALL MEASUREMENTS ARE TO BE VERIFIED ON SITE BY CONTRACTOR. ALL DISCREPANCIES ARE TO BE REPORTED TO ARCHITECTS AND PROJECT MANAGER.
CONTRACTORS ARE TO PREPARE AND SUBMIT SHOP DRAWINGS TO ARCHITECTS PRIOR TO COMMENCEMENT OF WORKS.

CASAS ARCHITECTS+	ARCHITECT: GARFIELD T. CASAS	PRC. NO: 0005411	SEAL	PROJECT TITLE: FOUR POINTS BY SHERATON PALAWAN, PUERTO PRINCESA BY JECO DEVELOPMENT CORP.	OWNER: JECO DEVELOPMENT CORP.	REPUBLIC ACT No. 545	DATE: APRIL 2020	SHEET CONTENTS	SHEET NO. A-0301
		VALIDITY: 07-22-2020					DRAWN BY: CAA		
		PTR NO. 8126200					REG NAME:		
		DATE: 01-08-2020					REVISION NO.: DESCRIPTION:		
		T.I.N. 146-555-136		LOCATION: PUERTO PRINCESA, PALAWAN	ADDRESS: MANDAUE CITY, CEBU			SCALE: AS SHOWN	JOB NO. 2019-0101

GENERAL NOTE: DO NOT SCALE FROM DRAWING. THE WORKS TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANT'S DRAWINGS. THE ARCHITECT TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES. COPYRIGHT ON THE DRAWING RESERVED BY THE ARCHITECT.



IMPORTANT NOTE:
VERIFY ID CONSULTANT FOR THE FINAL LAYOUT

ADD
REFLECTED CEILING PLAN

SCALE 1:100

CASAS ARCHITECTS+
DESIGN DEVELOPMENT
DATE: APRIL 2020

ALL MEASUREMENTS ARE TO BE VERIFIED ON SITE BY CONTRACTOR. ALL DISCREPANCIES ARE TO BE REPORTED TO ARCHITECTS AND PROJECT MANAGERS.
CONTRACTORS ARE TO PREPARE AND SUBMIT SHOP DRAWINGS TO ARCHITECTS PRIOR TO COMMENCEMENT OF WORKS.

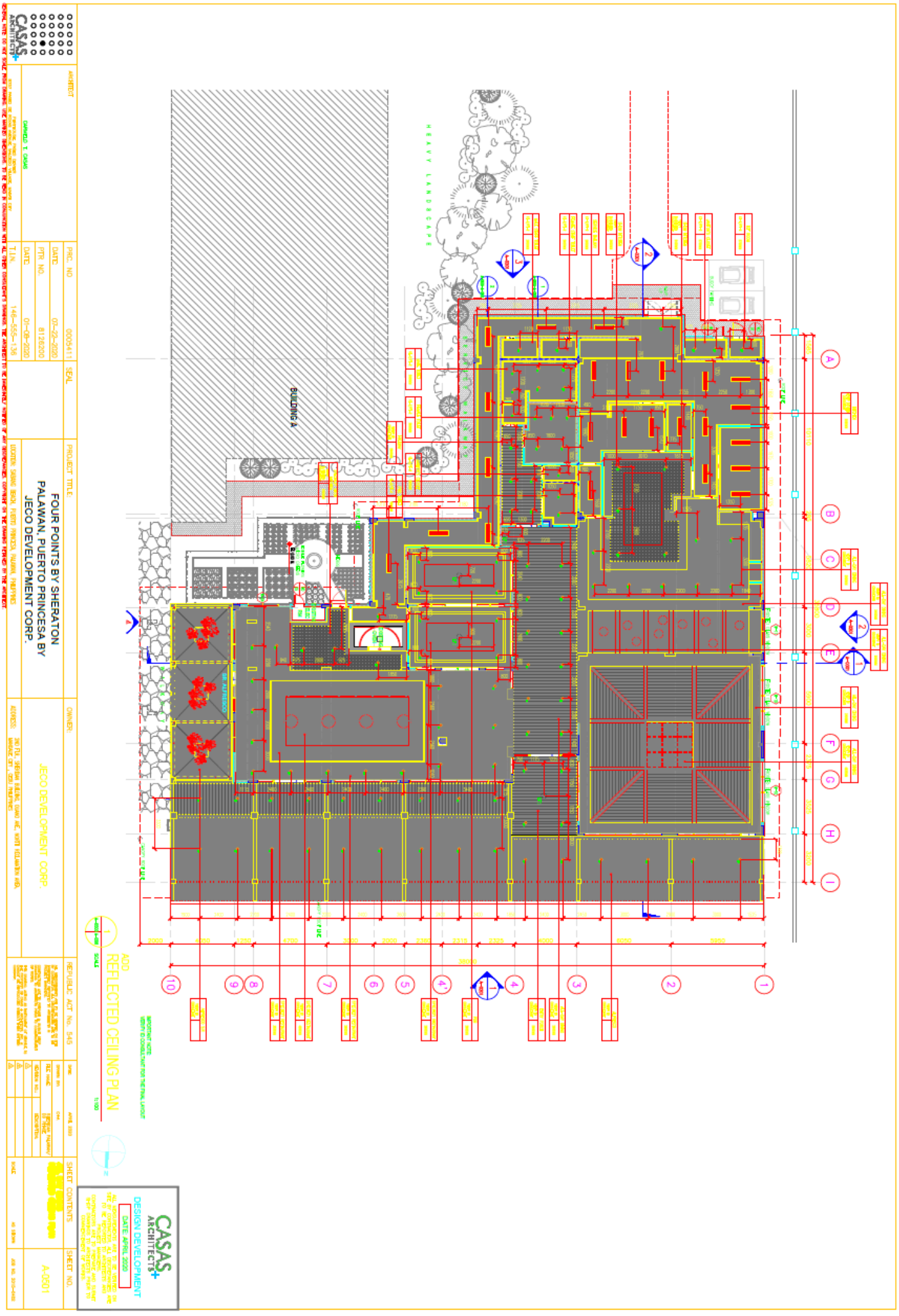
ARCHITECT: CASAS ARCHITECTS+ — DARWELD T. CASAS	PRC. NO 0005411	SEAL	PROJECT TITLE: FOUR POINTS BY SHERATON PALAWAN, PUERTO PRINCESA BY JECO DEVELOPMENT CORP.
	DATE: 07-22-2020		LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES
	PTR NO. 8126200		OWNER: JECO DEVELOPMENT CORP.
	DATE: 01-08-2020		ADDRESS: 3RD FLR., SHERIDAN BUILDING, DIANG AVE., NORTH RECLAMATION AREA, MANDAUE CITY, CEBU PHILIPPINES
	T.I.N. 146-555-136		

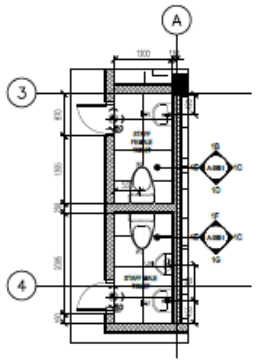
REPUBLIC ACT No. 545

DATE: APRIL 2020
DRAWN BY: CHK
FILE NAME: SHERIDAN PALAWAN/ 3D VIEWS
REVISION NO.: DESCRIPTION

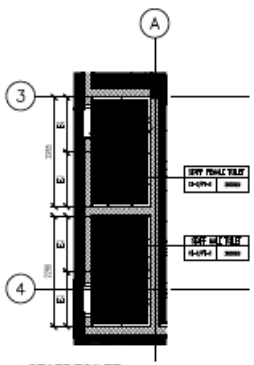
SHEET CONTENTS: REFLECTED CEILING PLAN
SHEET NO.: A-0501
SCALE: AS SHOWN
JOB NO. 2015-0402

GENERAL NOTE: DO NOT SCALE FROM DRAWING. USE MARKED DIMENSIONS. TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANT'S DRAWINGS. THE ARCHITECT TO BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES. COPYRIGHT ON THE DRAWINGS RESERVED BY THE ARCHITECT.

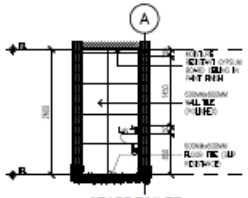

CASAS ARCHITECTS+
ARCHITECT
PRC. NO.
SEAL
PROJECT TITLE:
FOUR POINTS BY SHERATON
PALAWAN, PUERTO PRINCESA BY
JECO DEVELOPMENT CORP.
OWNER:
JECO DEVELOPMENT CORP.
REPUBLIC ACT No. 545
SHEET CONTENTS
SHEET NO.
A-001
BUILDING A
HEAVY LANDSCAPE
ADD
REFLECTED CEILING PLAN
DESIGN DEVELOPMENT
DATE APRIL 2020



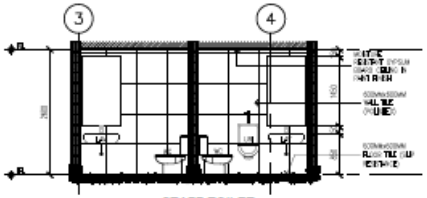
STAFF TOILET
ENLARGED PLAN
1 SCALE 1:50



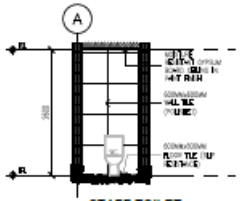
STAFF TOILET
REFLECTED CEILING PLAN
1A SCALE 1:50



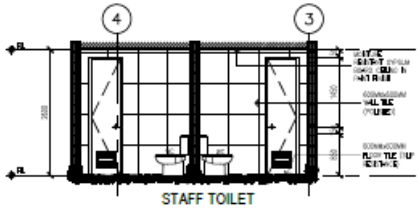
STAFF TOILET
ELEVATION
1B SCALE 1:50



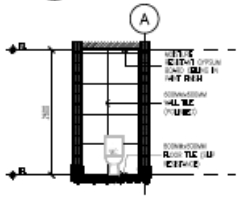
STAFF TOILET
ELEVATION
1C SCALE 1:50



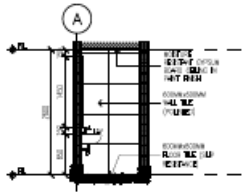
STAFF TOILET
ELEVATION
1D SCALE 1:50



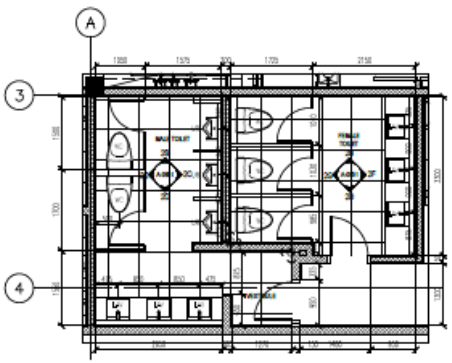
STAFF TOILET
ELEVATION
1E SCALE 1:50



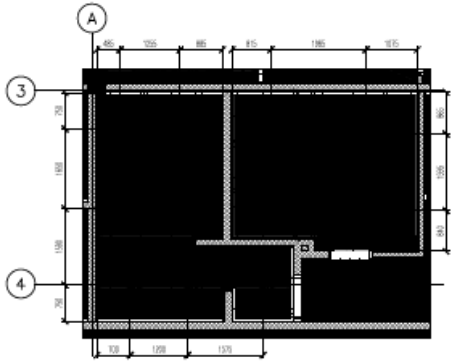
STAFF TOILET
ELEVATION
1F SCALE 1:50



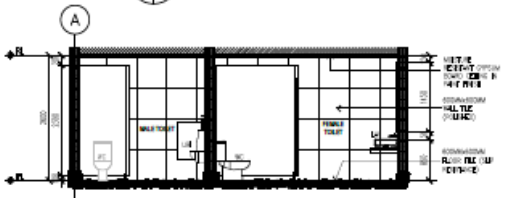
STAFF TOILET
ELEVATION
1G SCALE 1:50



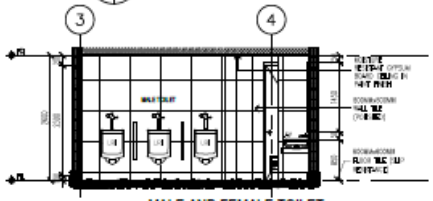
MALE AND FEMALE TOILET
ENLARGED PLAN
2 SCALE 1:50



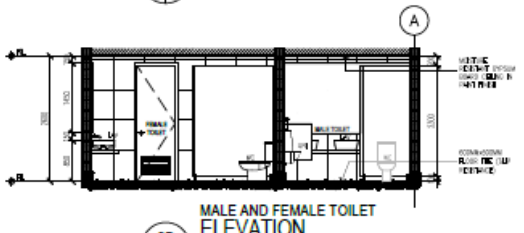
MALE AND FEMALE TOILET
REFLECTED CEILING PLAN
2A SCALE 1:50



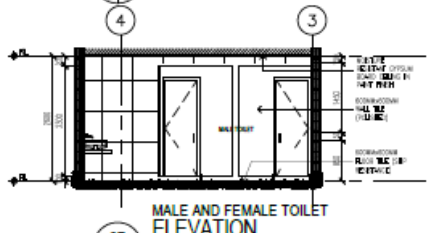
MALE AND FEMALE TOILET
ELEVATION
2B SCALE 1:50



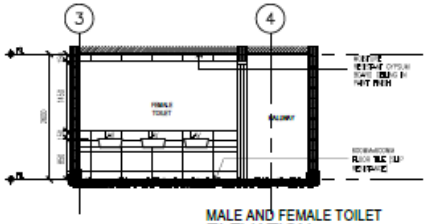
MALE AND FEMALE TOILET
ELEVATION
2C SCALE 1:50



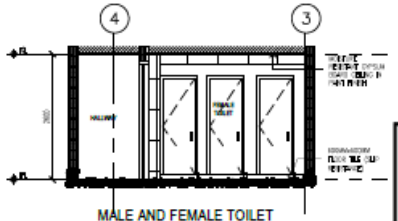
MALE AND FEMALE TOILET
ELEVATION
2D SCALE 1:50



MALE AND FEMALE TOILET
ELEVATION
2E SCALE 1:50



MALE AND FEMALE TOILET
ELEVATION
2F SCALE 1:50



MALE AND FEMALE TOILET
ELEVATION
2G SCALE 1:50

CASAS ARCHITECTS+

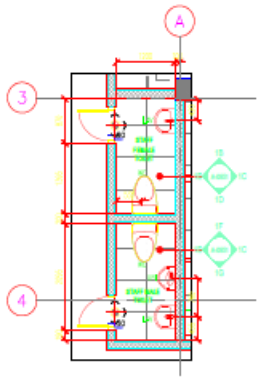
DESIGN DEVELOPMENT

DATE: APRIL 2020

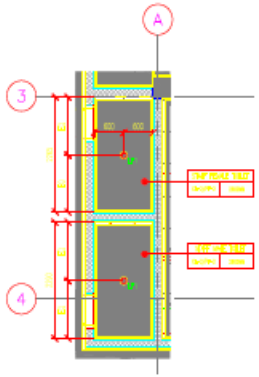
ALL ADJUSTMENTS ARE TO BE VERIFIED ON SITE BY CONTRACTOR. ALL DISCREPANCIES ARE TO BE REPORTED TO ARCHITECTS AND PROJECT MANAGERS.
CONTRACTORS ARE TO PREPARE AND SUBMIT SHOP DRAWINGS TO ARCHITECTS PRIOR TO COMMENCEMENT OF WORKS.

CASAS ARCHITECTS+	ARCHITECT: DARWELD T. CASAS	PRC. NO: 0005411	SEAL	PROJECT TITLE: FOUR POINTS BY SHERATON PALAWAN, PUERTO PRINCESA BY JECO DEVELOPMENT CORP.	OWNER: JECO DEVELOPMENT CORP.	REPUBLIC ACT No. 545	SHEET CONTENTS	SHEET NO. A-0851
		DATE: 07-22-2020						
		PTR NO.: 8126200						
		DATE: 01-08-2020						
		T.I.N.: 146-555-136		LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 2ND FLR., SHERIDAN BUILDING, DUANO AVE., NORTH RECLAMATION AREA, MANDAUE CITY, CEBU PHILIPPINES			

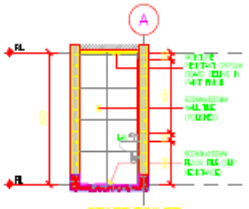
GENERAL NOTE: DO NOT SCALE FROM DRAWING. USE MARKED DIMENSIONS. TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANT'S DRAWINGS. THE ARCHITECT TO BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES. COPYRIGHT ON THE DRAWING RESERVED BY THE ARCHITECT.



STAFF TOILET
ENLARGED PLAN
1 SCALE 1:50

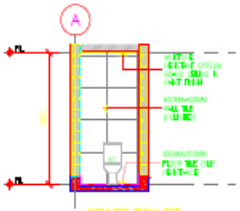


STAFF TOILET
REFLECTED CEILING PLAN
1A SCALE 1:50

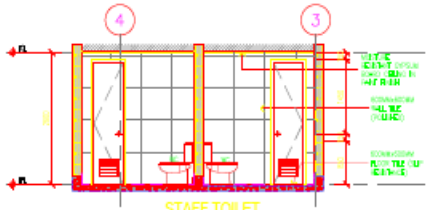


STAFF TOILET
ELEVATION
1B SCALE 1:50

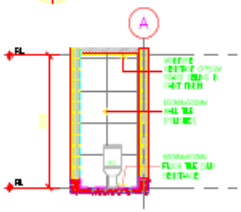
STAFF TOILET
ELEVATION
1C SCALE 1:50



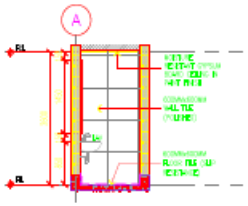
STAFF TOILET
ELEVATION
1D SCALE 1:50



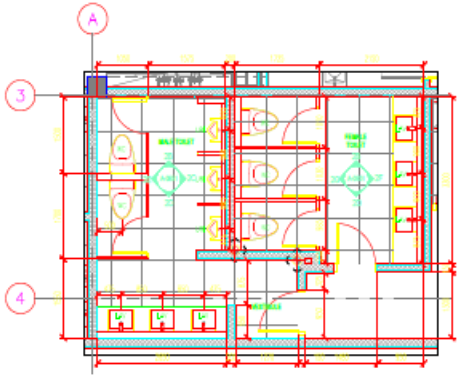
STAFF TOILET
ELEVATION
1E SCALE 1:50



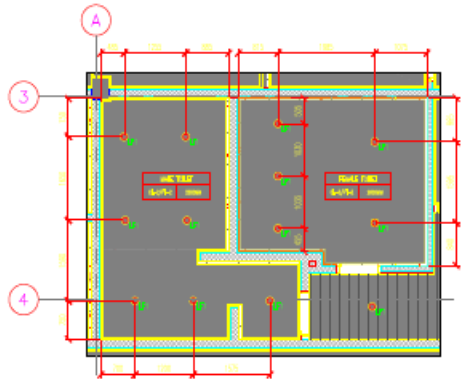
STAFF TOILET
ELEVATION
1F SCALE 1:50



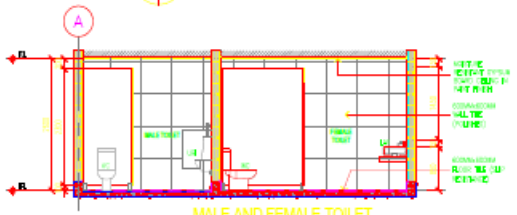
STAFF TOILET
ELEVATION
1G SCALE 1:50



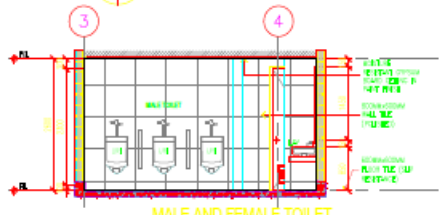
MALE AND FEMALE TOILET
ENLARGED PLAN
2 SCALE 1:50



MALE AND FEMALE TOILET
REFLECTED CEILING PLAN
2A SCALE 1:50



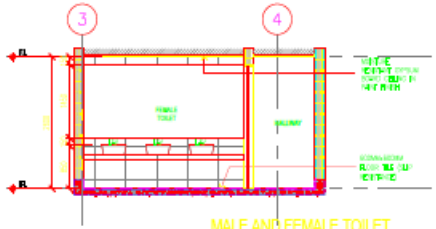
MALE AND FEMALE TOILET
ELEVATION
2B SCALE 1:50



MALE AND FEMALE TOILET
ELEVATION
2C SCALE 1:50

MALE AND FEMALE TOILET
ELEVATION
2D SCALE 1:50

MALE AND FEMALE TOILET
ELEVATION
2E SCALE 1:50



MALE AND FEMALE TOILET
ELEVATION
2F SCALE 1:50

MALE AND FEMALE TOILET
ELEVATION
2G SCALE 1:50

CASAS ARCHITECTS

DESIGN DEVELOPMENT

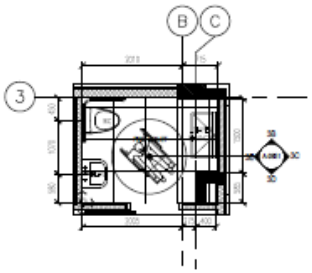
DATE: APRIL 2020

ALL MEASUREMENTS ARE TO BE VERIFIED ON SITE BY CONTRACTOR. ALL DISCREPANCIES ARE TO BE REPORTED TO ARCHITECTS AND PROJECT MANAGER.

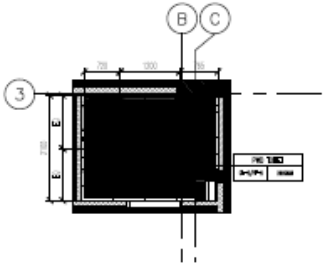
CONTRACTORS ARE TO PREPARE AND SUBMIT SHOP DRAWINGS TO ARCHITECTS PRIOR TO COMMENCEMENT OF WORKS.

CASAS ARCHITECTS	ARCHITECT: CARMELO T. CASAS	PRC. NO: 0005411	SEAL	PROJECT TITLE: FOUR POINTS BY SHERATON PALAWAN, PUERTO PRINCESA BY JECO DEVELOPMENT CORP.	OWNER: JECO DEVELOPMENT CORP.	REPUBLIC ACT No. 545	SHEET CONTENTS: ALL DAY DINING STAFF TOILETS MALE AND FEMALE VOLEY	SHEET NO. A-0851
		DATE: 07-22-2020						
		PTR NO. 8126200						
		DATE: 01-08-2020						
		T.I.N. 146-555-136		LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 2ND FLR., SHERIDAN BUILDING, QUIAD AVE., NORTH RECLAMATION AREA, MANDAUE CITY, CEBU PHILIPPINES		SCALE: AS SHOWN	

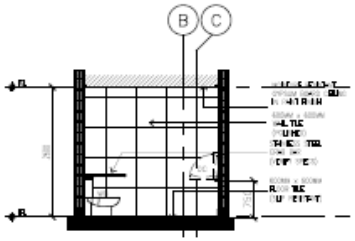
GENERAL NOTE: DO NOT SCALE FROM DRAWING. USE MARKED DIMENSIONS TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS. THE ARCHITECT TO BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES. COPYRIGHT ON THE DRAWING RESERVED BY THE ARCHITECT



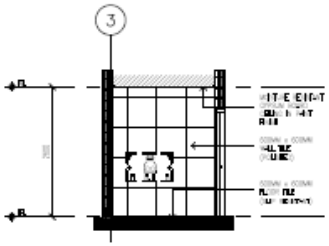
PWD TOILET
ENLARGED PLAN
3 — SCALE 1:50



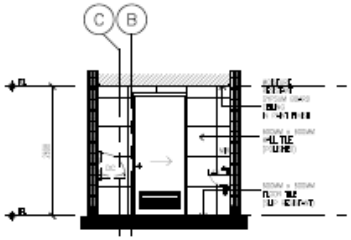
PWD TOILET
REFLECTED CEILING PLAN
3A — SCALE 1:50



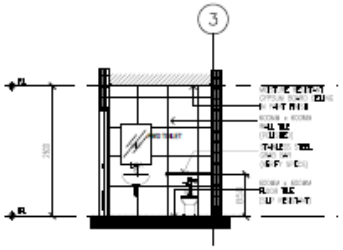
PWD TOILET
ELEVATION
3B — SCALE 1:50



PWD TOILET
ELEVATION
3C — SCALE 1:50



PWD TOILET
ELEVATION
3D — SCALE 1:50



PWD TOILET
ELEVATION
3E — SCALE 1:50

CASAS ARCHITECTS+

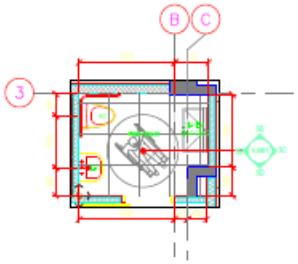
DESIGN DEVELOPMENT

DATE: APRIL 2020

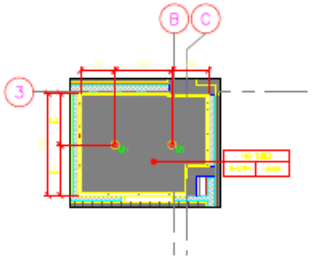
ALL MEASUREMENTS ARE TO BE VERIFIED ON SITE BY CONTRACTOR. ALL DISCREPANCIES ARE TO BE REPORTED TO ARCHITECTS AND PROJECT MANAGERS.
CONTRACTORS ARE TO PREPARE AND SUBMIT SHOP DRAWINGS TO ARCHITECTS PRIOR TO COMMENCEMENT OF WORKS.

CASAS ARCHITECTS+	ARCHITECT: CARWELD T. CASAS	PRC. NO: 0005411	SEAL	PROJECT TITLE: FOUR POINTS BY SHERATON PALAWAN, PUERTO PRINCESA BY JECO DEVELOPMENT CORP.	OWNER: JECO DEVELOPMENT CORP.	REPUBLIC ACT No. 545	SHEET CONTENTS: [redacted]	SHEET NO.: A-0852
		DATE: 07-22-2020						
		PTR NO.: 8126200						
		DATE: 01-08-2020						
		T.I.N.: 146-555-136		LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 3RD FLR., SHERIDAN BUILDING, OSMAK AVE., NORTH RECLAMATION AREA, MANDAUE CITY, CEBU PHILIPPINES			

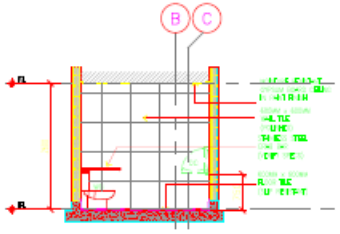
GENERAL NOTE: DO NOT SCALE FROM DRAWING. USE MARKED DIMENSIONS. TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANT'S DRAWINGS. THE ARCHITECT TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES. COPYRIGHT ON THE DRAWINGS REMAINS BY THE ARCHITECT.



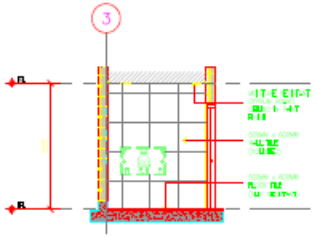
PWD TOILET
ENLARGED PLAN
3 SCALE 1:50



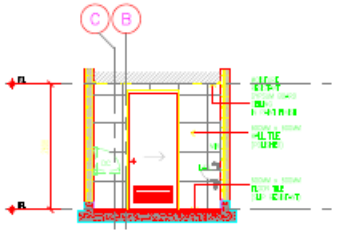
PWD TOILET
REFLECTED CEILING PLAN
3A SCALE 1:50



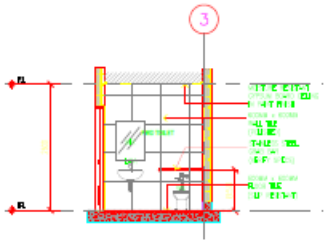
PWD TOILET
ELEVATION
3B SCALE 1:50



PWD TOILET
ELEVATION
3C SCALE 1:50



PWD TOILET
ELEVATION
3D SCALE 1:50



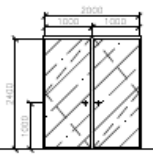
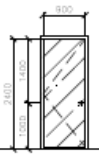
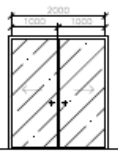
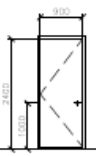
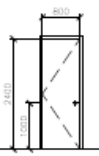
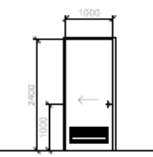
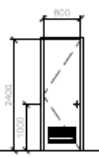
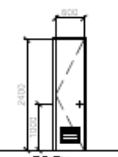
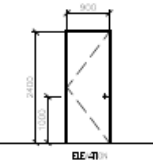
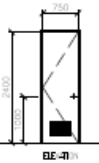
PWD TOILET
ELEVATION
3E SCALE 1:50

CASAS ARCHITECTS+
DESIGN DEVELOPMENT
DATE: APRIL 2020

ALL ABBREVIATIONS ARE TO BE VERIFIED ON SITE BY CONTRACTOR. ALL DISCREPANCIES ARE TO BE REPORTED TO ARCHITECTS AND PROJECT MANAGER.
CONTRACTORS ARE TO PREPARE AND SUBMIT SHOP DRAWINGS TO ARCHITECTS PRIOR TO COMMENCEMENT OF WORKS.

ARCHITECT: CASAS ARCHITECTS+ — DARWELD T. CASAS — PROFESSIONAL REGN. DETAILS — 8000 PASEO DE ROXAS AVENUE, SALCEDO VILLAGE, MAKATI CITY	PRC. NO 0005411	SEAL	PROJECT TITLE: FOUR POINTS BY SHERATON PALAWAN, PUERTO PRINCESA BY JECO DEVELOPMENT CORP.	OWNER: JECO DEVELOPMENT CORP.	REPUBLIC ACT No. 545	DATE: APRIL 2020	SHEET CONTENTS:	SHEET NO. A-0852
	DATE: 07-22-2020					DRAWN BY: CAS		
	PTR NO. 8126200					FILE NAME: SHERATON PALAWAN - 3D.PWD		
	DATE: 01-08-2020					REVISION NO.: DESCRIPTION:		
	T.I.N. 146-555-136		LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 3RD FLR., SHERIDAN BUILDING, DIANG AVE., NORTH REKLAMATION AREA, MABOLO CITY, CEBU PHILIPPINES			SCALE: AS SHOWN	JOB NO. 2010-0402

GENERAL NOTE: DO NOT SCALE FROM DRAWING. USE MARKED DIMENSIONS. TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS. THE ARCHITECT TO BE INFORMED IMMEDIATELY IN CASE OF ANY DISCREPANCIES. COPYRIGHT ON THE DRAWING RESERVED BY THE ARCHITECT.

					
ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION	
DESIGNATION	D1	D2	D3	D4	D5
DESCRIPTION	DOUBLE-SWING ACTIVE ALUMINUM GLASS DOOR WITH TOWN THE TEMPERED CLEAR GLASS	SINGLE-SWING ACTIVE ALUMINUM GLASS DOOR WITH TOWN THE TEMPERED CLEAR GLASS	DOUBLE-SWING ACTIVE DOOR ACTIVE ALUMINUM GLASS DOOR WITH TOWN THE TEMPERED CLEAR GLASS	SINGLE-SWING LEAF HOLLOW CORE WOOD DOOR AND FRAME	SINGLE-SWING LEAF HOLLOW CORE WOOD DOOR AND FRAME
LOCATION	ALL-GLASS ENTRANCE VAN ENTRY, BREAKOUT RESTAURANT ENTRY, FSR	BREAKOUT RESTAURANT AND ALL DAY DINING TO AIRFIELD	FSR	HOUSEKEEPING OFFICE	GUEST ROOMS
REMARKS	REFER TO SHEET FOR HARDWARE & PRODUCT DATA	REFER TO SHEET FOR HARDWARE & PRODUCT DATA	REFER TO SHEET FOR HARDWARE & PRODUCT DATA	REFER TO SHEET FOR HARDWARE & PRODUCT DATA	REFER TO SHEET FOR HARDWARE & PRODUCT DATA
					
ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION	
DESIGNATION	D6	D7	D8	D9	D10
DESCRIPTION	SINGLE-SWING HOLLOW CORE WOOD DOOR, FLUSH-TYPE PANEL WITH MATTE LAMINATE FINISH ON BOTH SIDE	SINGLE-SWING LEAF HOLLOW CORE WOOD DOOR AND FRAME WITH LOUVER PANEL	SINGLE-SWING LEAF HOLLOW CORE WOOD DOOR AND FRAME WITH LOUVER PANEL	DOUBLE-SWING LEAF HOLLOW CORE WOOD DOORS AND FRAME	DOUBLE-SWING LEAF HOLLOW CORE WOOD DOORS AND FRAME
LOCATION	PWD TOILET	MALE AND FEMALE TOILET JANITOR'S CLOSET	STAFF MALE AND FEMALE TOILET	KITCHEN ENTRANCE	KITCHEN ENTRANCE
REMARKS	REFER TO SHEET FOR HARDWARE & PRODUCT DATA	REFER TO SHEET FOR HARDWARE & PRODUCT DATA	REFER TO SHEET FOR HARDWARE & PRODUCT DATA	REFER TO SHEET FOR HARDWARE & PRODUCT DATA	REFER TO SHEET FOR HARDWARE & PRODUCT DATA
					
ELEVATION	ELEVATION				
DESIGNATION	D11	D12			
DESCRIPTION	SINGLE-SWING HOLLOW CORE WOOD DOOR AND FRAME	SINGLE-SWING LEAF HOLLOW CORE WOOD DOOR AND FRAME WITH LOUVER PANEL			
LOCATION	KITCHEN	JANITOR'S CLOSET			
REMARKS	REFER TO SHEET FOR HARDWARE & PRODUCT DATA	REFER TO SHEET FOR HARDWARE & PRODUCT DATA			

ADD
DOOR SCHEDULE

1 SCALE 1:50

CASAS ARCHITECTS+
DESIGN DEVELOPMENT
DATE: MAY 2020
ALL MEASUREMENTS ARE TO BE VERIFIED ON SITE BY CONTRACTOR. ALL DISCREPANCIES ARE TO BE REPORTED TO ARCHITECTS AND PROJECT MANAGER. CONTRACTORS ARE TO PREPARE AND SUBMIT SHOP DRAWINGS TO ARCHITECTS PRIOR TO COMMENCEMENT OF WORKS.

CASAS ARCHITECTS+

ARCHITECT
CARMELO T. CASAS
PRC. NO 0005411
DATE: 07-22-2020
PTR NO. 8126200
DATE: 01-08-2020
T.I.N. 146-555-136

SEAL

PROJECT TITLE:
FOUR POINTS BY SHERATON PALAWAN, PUERTO PRINCESA BY JECO DEVELOPMENT CORP.
LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES

OWNER:
JECO DEVELOPMENT CORP.
ADDRESS: 2ND FLR., SHERIDAN BUILDING, OSMA AVE., NORTH RECLAMATION AREA, MANDAUE CITY, CEBU PHILIPPINES

REPUBLIC ACT No. 545

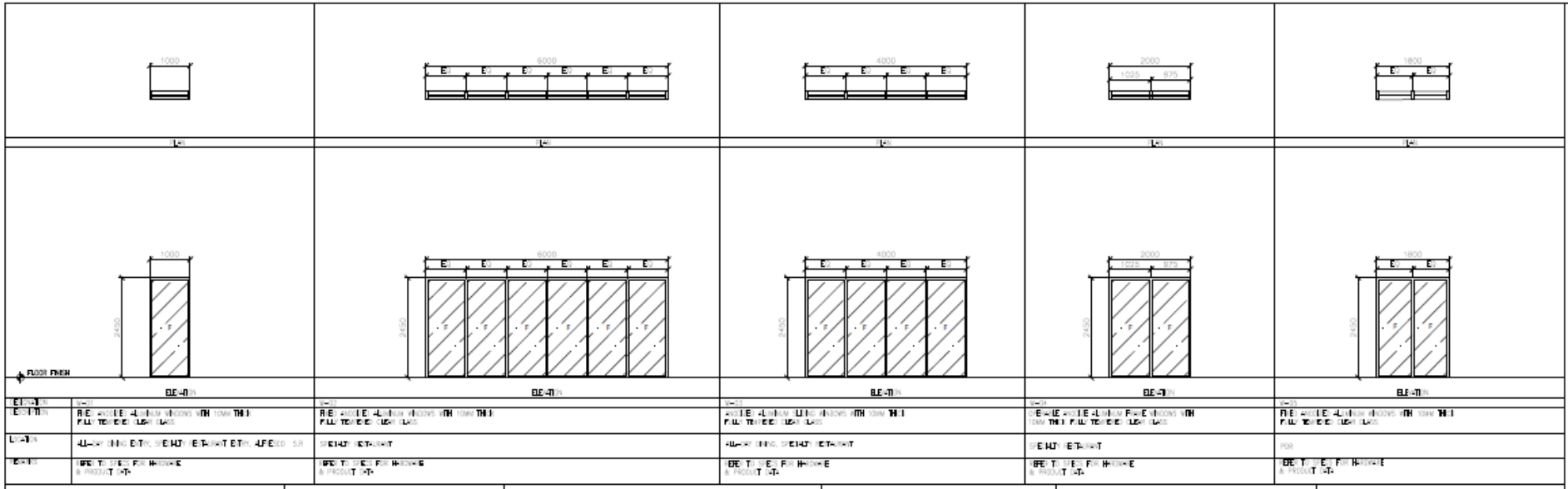
DATE: MAY 2020
DRAWN BY:
FILE NAME: SHERIDAN PALAWAN 07.PLN
REVISION NO. DESCRIPTION
1
2
3

SHEET CONTENTS

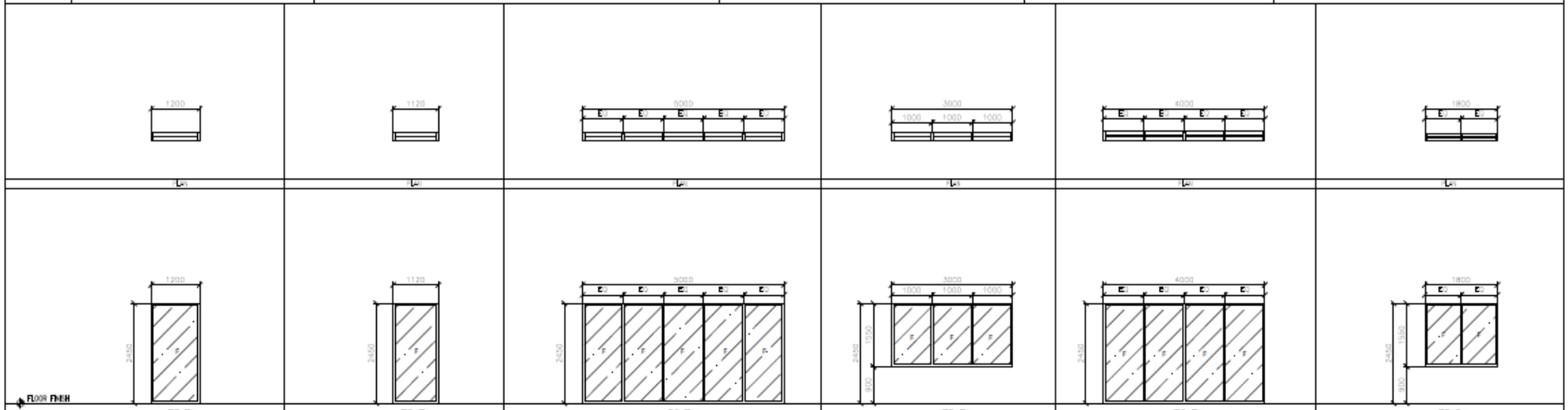
SHEET NO.
A-0901

SCALE AS SHOWN
JOB NO. 2010-0402

GENERAL NOTE: DO NOT SCALE THESE DRAWINGS. USE WRITTEN DIMENSIONS. TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANT'S DRAWINGS. THE ARCHITECT TO BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES. COPYRIGHT ON THE DRAWINGS RESERVED BY THE ARCHITECT.



ELEVATION				
DESCRIPTION	FIXED ANODIZED ALUMINUM WINDOWS WITH 10MM THICK FULL TEMPERED CLEAR GLASS	FIXED ANODIZED ALUMINUM WINDOWS WITH 10MM THICK FULL TEMPERED CLEAR GLASS	ANODIZED ALUMINUM SLIDING WINDOWS WITH 10MM THICK FULL TEMPERED CLEAR GLASS	CASEMENT ANODIZED ALUMINUM FRAME WINDOWS WITH 10MM THICK FULL TEMPERED CLEAR GLASS	FIXED ANODIZED ALUMINUM WINDOWS WITH 10MM THICK FULL TEMPERED CLEAR GLASS
LOCATION	ALL-DAY DINING ENTRY, SERVICE AREA, SERVICE ENTRY, ALFRESCO 1/F	SERVICE AREA	ALL-DAY DINING, SERVICE AREA	SERVICE AREA	POR
REMARKS	REFER TO SPECS FOR HARDWARE & PRODUCT DATA	REFER TO SPECS FOR HARDWARE & PRODUCT DATA	REFER TO SPECS FOR HARDWARE & PRODUCT DATA	REFER TO SPECS FOR HARDWARE & PRODUCT DATA	REFER TO SPECS FOR HARDWARE & PRODUCT DATA



ELEVATION						
DESCRIPTION	FIXED ANODIZED ALUMINUM WINDOWS WITH 10MM THICK FULL TEMPERED CLEAR GLASS	FIXED ANODIZED ALUMINUM WINDOWS WITH 10MM THICK FULL TEMPERED CLEAR GLASS	FIXED ANODIZED ALUMINUM WINDOWS WITH 10MM THICK FULL TEMPERED CLEAR GLASS	FIXED ANODIZED ALUMINUM WINDOWS WITH 10MM THICK FULL TEMPERED CLEAR GLASS	FIXED ANODIZED ALUMINUM WINDOWS WITH 10MM THICK FULL TEMPERED CLEAR GLASS	FIXED ANODIZED ALUMINUM WINDOW WITH 10MM THICK FULL TEMPERED FROSTED GLASS
LOCATION	SERVICE AREA	ALL-DAY DINING	ALL-DAY DINING	SERVICE AREA	ALL-DAY DINING	ALL-DAY DINING
REMARKS	REFER TO SPECS FOR HARDWARE & PRODUCT DATA	REFER TO SPECS FOR HARDWARE & PRODUCT DATA	REFER TO SPECS FOR HARDWARE & PRODUCT DATA	REFER TO SPECS FOR HARDWARE & PRODUCT DATA	REFER TO SPECS FOR HARDWARE & PRODUCT DATA	REFER TO SPECS FOR HARDWARE & PRODUCT DATA

1 A-0951 A-0951

ADD
WINDOW SCHEDULE

SCALE 1:50

CASAS+ ARCHITECTS+

DESIGN DEVELOPMENT

DATE: APRIL 2020

ALL REQUIREMENTS ARE TO BE VERIFIED ON SITE BY CONTRACTOR. ALL DISCREPANCIES ARE TO BE REPORTED TO ARCHITECTS AND PROJECT MANAGER.
CONTRACTORS ARE TO PREPARE AND SUBMIT SHOP DRAWINGS TO ARCHITECTS PRIOR TO COMMENCEMENT OF WORKS.

ARCHITECT	PRC. NO 0005411	SEAL	PROJECT TITLE:	OWNER:	REPUBLIC ACT No. 545	SHEET CONTENTS	SHEET NO.
CASAS+ ARCHITECTS+	DATE: 07–22–2020		FOUR POINTS BY SHERATON PALAWAN, PUERTO PRINCESA BY JECO DEVELOPMENT CORP.	JECO DEVELOPMENT CORP.			A-0951
DARWELD T. CASAS	PTR NO. 8126200						
PRC/ROUTINE PHASE DESIGNER	DATE: 01–08–2020		LOCATION: SABANG BEACH, PUERTO PRINCESA, PALAWAN, PHILIPPINES	ADDRESS: 2ND FLR., SHERIDAN BUILDING, OSIAO AVE., NORTH RECLAMATION AREA, MANDAUE CITY , CEBU PHILIPPINES			
3707 PASEO DE ROXAS AVENUE, SALCEDO VILLAGE, MAKATI CITY	T.I.N. 146–555–136						

GENERAL NOTE: DO NOT SCALE FROM DRAWING. USE MARKED DIMENSIONS. TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANT'S DRAWINGS. THE ARCHITECT TO BE INFORMED ALMOST OF ANY DISCREPANCIES. COPYRIGHT ON THE DRAWING RESERVED BY THE ARCHITECT.

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GENERAL CONDITIONS:

1. CONSTRUCTION NOTES
2. SPECIFICATIONS

I. GENERAL Requirements:

1. ALL STRUCTURAL MATERIALS AND WORKS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE PHILIPPINES' NATIONAL STRUCTURAL CODE (NSCP 2015).
2. VERIFY ALL ELEVATIONS, DIMENSIONS AND SITE CONDITIONS BEFORE STARTING THE SETTING OUT OF THE BUILDING AND WORKS. NOTIFY THE ENGINEER OR ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY.
3. A JOINT INSPECTION BY THE CONTRACTOR AND ARCHITECT/ENGINEER BEFORE FINALIZATION OF SETTING OUT.
4. NOTES AND DETAILS ON THE DRAWINGS SHALL BE FOLLOWED IN PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS IN CASE OF INCONSISTENCY OF DOCUMENTS. THE BOQ SHALL ALSO BE CONSIDERED IN CASE OF THE ABOVE MATTER ARISES.
5. WHERE CONSTRUCTION DETAILS ARE NOT SHOWN NOR AVAILABLE IN THE CONTRACT DOCUMENTS FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE DISCUSSED WITH THE ARCHITECT OR ENGINEER FOR PROPER EXECUTION.
6. ANY EMBEDDED PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL NOT BE PLACED IN SLABS, BEAMS OR WALLS UNLESS SPECIFICALLY SHOWN OR INDICATED IN THE DRAWINGS, NOTED NOR SHALL ANY STRUCTURAL MEMBERS CUT FOR PIPES, DUCTS & OTHERS. UNLESS IT IS INDICATED IN THE CONSTRUCTION DRAWINGS, CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FOR THE AUTHORITY / S.O. / ARCHT / ENGR. FOR INSTALLATION OF ANY ADDITIONAL CONDUIT PIPES OR DUCTS OR RELATED SLEEVES.
7. CONTRACTOR SHALL LOCATE AND PROTECT UNDERGROUND OR CONCEALED CONDUITS, PLUMBING OR OTHER UTILITIES WHERE NEW WORKS SHALL BE PERFORMED.
8. TAKE NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE DURING CONSTRUCTION. NEITHER THE OWNER / CLIENT NOR ARCHITECT / ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. OR DOLE REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE PPE AND ADEQUATE SHORING AND BRACING OF ANY STRUCTURE FOR ALL THE LOADS THAT MAYBE IMPOSED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO DESIGN, CONSTRUCT AND MAINTAIN ASLL SAFETY DEVICES AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING ALL SAFETY & HEALTH STANDARDS, LOCAL REGULATIONS, DOLE AND LAWS.
9. OBTAIN PRIOR WRITTEN APPROVAL FOR THE ENGINEER / ARCHITECT IN CASE CHANGES AND/OR DISCREPANCIES ARE FOUND IN THE CONSTRUCTION DRAWINGS.

III. FOUNDATION WORKS:

1. FOOTINGS OR COLUMN PADS SHALL BE ON SOLID UNDISTURBED ORIGINAL EARTH SURFACE OR AT CONTROLLED, COMPACTED STRUCTURAL FILL OR BOTH, SUBJECT TO ENGINEER'S INSTRUCTION TO AT LEAST 1000MM BELOW LOWEST ADJACENT FINISHED GRADE OR NATURAL GROUND.
2. FOOTINGS ARE DESIGNED FOR ASSUMED SOIL BEARING CAPACITY OF 2600PSI IN REFERENCE TO LATEST SOIL INVESTIGATION / TEST REPORT.
3. SUB-GRADE PREPARATION INCLUDING DRAINAGE EXCAVATION, COMPACTION AND FILLING REQUIREMENTS SHALL CONFIRM STRICTLY WITH THE RECOMMENDATIONS GIVEN IN THE SOIL TEST REPORT OR AS DIRECTED BY THE SOIL OR GEOLOGICAL ENGINEER.
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER FOOTING EXCAVATION HAVE BEEN COMPLETED AND PRIOR TO CONCRETING TO CONFIRM THE DESIGN FOUNDATION / SOIL CAPACITY.
5. DO NOT PLACE NOR FILL USING GRAVEL OR BOULDERS OF GRANULAR FILL MATERIALS AS SUB-GRADE BELOW FOOTINGS. NATURAL SOIL CONDITION IS BEST SUITED AND PLACE LEAN CONCRETE OR POLYETHELENE PLASTIC SHEET ABOVE IS RECOMMENDED.
6. ROOF DRAINAGE SYSTEM (RAIN WATER, DOWNSPOUT) SHALL BE DIRECTED AWAY FROM THE FOUNDATIONS.
7. A STANDBY SUM PIT LOWER THAN THE EXCAVATED FOUNDATION (FOR MASS OR MAT FOUNDATION WORKS) SHALL BE PREPARED BY THE CONTRACTOR TO MITIGATE EXPECTED RAIN, PUMP OUT THE WATER IMMEDIATELY TO AVOID FOUNDATION BAD CONDITION.
8. EXCAVATED AREAS SHALL BE PROPERLY BACKFILLED IN A PROPER METHODOLOGY USING DRY EARTH FILL MATERIALS. IN THE EVENT OF WATER PRESENCE IN THE EXCAVATED AREA, NO BACK FILLING IS ALLOWED, UNTIL WATER IS PUMP AND DRY WELL BACKFILL FOR WALLS SHALL BE PERVIOUS MATERIALS ACCEPTABLE TO THE GEOTECHNICAL ENGINEER. DO NOT PLACE BACKFILL BEHIND WALLS BEFORE WALLS OR STRUCTURES HAVE ATTAINED THE DESIGN STRENGTH. SHORING AND PROTECT WALLS FROM LATERAL LOADS UNTIL SUPPORTING MEMBERS ARE IN PLACE AND HAVE ATTAEIND SPECIFIED STRENGTH.

II. DESIGN Criteria:

1. THE DESIGN CRITERIA IS AS STATED IN THE DESIGN CALCULATION BY THE ENGINEER. (A) SOIL BEARING CAPACITY (B) CONCRETE STRENGTH (C) STEEL MATERIALS - WIDE FLANGE, STEEL BARS (MILD & HIGH TENSILE STEEL) (C) CEMENT (D) WATER (E) CEMENT & WATER RATIO.
2. STRUCTURAL DESIGN AND ANALYSIS SHALL BE REFERRED TO THE STRUCTURAL CALCULATIONS PREPARED BY THE ENGINEER.

IV. CONCRETE Reinforcement:

1. CONCRETE MIXTURE SHALL BE MIXED IN PROPER PROPORTIONS OR MIX DESIGN, WATER RATIO, CEMENT RATIO ALL TO THE APPROVAL OF THE ENGINEER. MUST BE CONVEYED AND PLACED IN ACCORDANCE WITH THE PROVISIONS SET BY THE PHIL. NSCP 2015 EDITION.
2. BRACKISH WATER OR BRACKISH RIVER SAND SHALL NOT BE USED.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS WITH APPROVED MAXIMUM SLUMP AND MAXIMUM AGGREGATE RATIO AS FOLLOWS:

Structures	Strength	Max. Slump	Aggregate.
3.1 SLAB ON GRADE	3000PSI	4"	1"
3.2 BELOW GROUND Foundation, Walls	3600PSI	4"	1" Crushed
3.3 COLUMNS, Walls	3000PSI	4"	3/4" Crushed
3.4 BEAMS, SLAB	3000PSI	4"	3/4" Crushed

4. ALL REINFORCED STEEL BARS SHALL CONFORM TO ASTM A615 GRADE 40 FOR 12MM DIA. & SMALLER BARS, AND 16MM DIA & ABOVE SHALL BE GRADE 60.
5. ALL FABRICATION, DETAILING AND PLACING OF STEEL BARS SHALL CONFORM TO PROVISIONS SET FORTH BY THE PHIL. NSCP 2015 EDITION.
6. CLEAR DISTANCE SPACING BETWEEN PARALLED BARS IN LAYER SHALL NOT BE LESS THAN 1.50 TIMES THE NOMINAL DIAMETER OF THE BAR, OR 1.33 TIMES MAXIMUM SIZE OF AGGREAGTES, NOR LESS THAN 38MM (1.50 INCHES).
7. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS

7.1 FOOTING (EXPOSED TO EARTH)	3" (76MM)
7.2 EXPOSED TO EARTH BUT BUILT WITH FORMS . .	2" (60MM)
7.3 SLAB ON GRADE	1.50" (40MM)
7.4 COLUMN TIES, SPIRALS, STIRRUPS	1.50" (40MM)
7.5 SUSPENDED SLABS	3/4" (20MM)
7.6 SLAB EXPOSED TO SALTY ENVIRON	1.25" (32MM)

8. SPLICES SHALL BE SECURELY WIRED TOGETHER AND SHALL LAPPED AT LEAST 40 TIMES THE DIAMETER OR 600MM WHICHEVER IS GREATER. STAGGERED BOTTOM AT LEAST 1.60M FROM SPLICES IN OTHER BOTTOM REINFORCEMENT. STAGGERED SPLICES FOR TOP REINFORCEMENT IS SIMILAR.
9. ALL ANCHOR BOLTS, DOWELS AND OTHER INSERTS SHALL BE PROPERLY POSITIONED AND SECURED IN PLACE PRIOR TO PLACING CONCRETE.
10. ALL FRESH CONCRETE SHALL BE KEPT MOIST FOR A MINIMM OF 7 DAYS IMMEDIATELY AFTER POURING BY THE USE OF CURING COMPOUNDS OR OTHER APPROVED MEANS.
11. STRIPPING OF FORMS AND SHORINGS:

11.1 FOUNDATION	24 HOURS
11.2 SUSPENDED SLAB	6 DAYS
11.3 BEAMS	14 DAYS

11.4 UPON REMOVAL, IT IS REQUIRED TO SHORE BACK WITH FEW SUPPORTS, TO ENGINEER'S APPROVAL.

V. CAMBER Requirements:

1. UNLESS OTHERWISE STIPULATED IN THE PLANS OR SPECIFICATIONS, CAMBER REQUIREMENTS WILL APPLY.

VI. MASONRY & CONCRETE BLOCKS:

1. CONCRETE HOLLOW BLOCKS CHB, UNLES SPECIFIED SHALL BE 150MM THICK LOAD BEARING BLOCKS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 750 PSI, WHILE NON-LOAD BEARING CHB SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 400 PSI.
2. PROVIDE 1-T16 OR 1-T12 MM DIA. VERTICAL BARS AT CORNERS, INTERSECTIONS, END OF WALLS, EACH SIDE OF OPENINGS.
3. CONTRACTOR TO PROVIDE DOWEL OR ANCHOR BARS TO COLUMNS AND BEAMS (AT SOFFIT) FOR PROPER REINFORCEMENT SYSTEM OF THE WALLS. USE T10 OR T9MM DIA x 300MM LONG (WITH AT LEAST 200MM EMBEDDED INSIDE CONCRETE STRUCTURES).
4. LINTEL BEAMS SHALL BEAR AT LEAST 200MM ON EACH SIDE OF THE MASONRY WALL OPENING. THESE APPLIES FOR DOOR & WINDOW OPENINGS.
5. WALL REINFORCEMENT SHALL BE AS FOLLOWS:

	Wall Thickness	Vertical Bars	Horizontal Bars
6.1	8"	12mm @ 400mm	10mm @ 600mm
6.2	6"	10mm @ 400mm	10mm @ 600mm
6.3	4"	10mm @ 400mm	10mm @ 600mm

6. CHB BLOCK WALL REINFORCING BARS SHALL BE LAPPED OF 30 BAR DIAMETERS WHERE SPLICED, HORIZONTAL OR VERTICAL DOWELS FROM FOOTING, COLUMNS OR WALLS OR SLABS SHALL BE EXTENDED INTO THE BLOCK WALL, A MINIMUM OF 30 BAR DIAMETERS OR A MINIMUM OF 300-400MM WHICHEVER IS LONGER AND DOWELS TO MATCH VERTICAL REINFORCEMENTS OF WALLS.

VII. STRUCTURAL STEEL Requirements:

1. ALL STRUCTURAL STEELS SUCH AS ANGLES, WIDE FLANGE SECTIONS, PIPES, STIFFENER PLATES, BASE PLATES, ETC SHALL CONFORM TO ASTM A-36.
2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED BASED ON THE SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL GIVEN BY THE NSCP OF THE PHIL.
3. CONNECTION BOLTS (20MM DIA. UNLESS SHOWN) SHALL CONFORM TO ASTM A-325. ANCHOR BOLTS (EMBEDDED IN MASONRY OR CONCRETE) SHALL CONFORM TO ASTM A-307 UNLESS STATED IN THE DRAWINGS.
4. ALL STRUCTURAL STEEL SHALL BE CLEAN, RUST FREE AND SHOP COATED WITH THE APPROPRIATE PAINT. STEEL AND BOLTS SHALL BE MINIMUM ASTM A-36 DOMESTIC, LATEST REVISED CODE.
5. NON-SHRINK GROUT: PREMIXED, NON-METALLIC, CEMENT BASED GROUT, SHALL MEET THE REQUIREMENT OF ASTM C 827, ASTM C 109 AND CRD-C621. WITH MINIMUM COMPRESSIVE STRENGTH OF 7000PSI AT 28 DAYS.
6. ALL LIGHT WEIGHT STEEL TO BE USED SHALL BE GALVANIZED IN ACCORDANCE TO MINIMUM HOT DIPPED ZINC GALVANIZED COATINGS.
7. PROVIDE MISCELLANEOUS PLATES, ANGLES, BRACKETS, CLEATS, ETC AS SHOWN AND STIPULATED IN THE DRAWINGS.
8. ALL CUTTINGS AND BLOCKING OF STEEL SHALL BE SHOWN ON SHOP DRAWINGS AND PERFORMED ACCORDINGLY IN THE SHOP.
9. PROVIDE TEMPORARY BRACING AS REQUIRED, FOR SAFETY PURPOSES AND SOUND STRUCTURE UNTIL ALL FINAL CONNECTIONS ARE MADE.

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL
CEBU CITY

RECOMMENDING APPROVAL:

TRIAD ARCHITECTURAL SECTION _____ DATE

APPROVED:

BUILDING OFFICIAL _____ DATE

DESIGNER: JDC ENGINEERING & DESIGN OFFICE, JECO DEVELOPMENT CORPORATION, Sheridan Building, Osano Avenue, Mandaue City, Cebu	DEVELOPER: JECO DEVELOPMENT CORPORATION, 2 FLOOR, SHERIDAN BUILDING, OSANO AVENUE, CEBU CITY PHILIPPINES	CERTIFIED BY: ENGR. JOSE MAR. G. GENCIANA, CIVIL ENGINEER/JDC EDO; TIN NO. : 417-622-224; PRC NO. : 946666; PTR NO. : 2774780; DRAFTED BY : JMGr RMA	PROJECT TITLE: FOUR POINTS BY SHERATON PALAWAN Puerto Princessa; PROPOSED WAREHOUSE 330m2; LOCATION: CABAYUGAN, PUERTO PRINCESSA, PALAWAN	OWNER / CLIENT : JEFFERSON C. TAN	TITLE / DESCRIPTION : GENERAL NOTES	THIS DRAWING IS ISSUED FOR: ☐ AS-BUILT ☐ ESTIMATE ☐ BIDDING ☐ FABRICATION ■ BUILDING PERMIT ☐ OWNER'S APPROVAL ■ CONSTRUCTION ☐ PRESENTATION; REV: ; DATE: MAR. 01, 2021	SHEET NO : GN 1.0

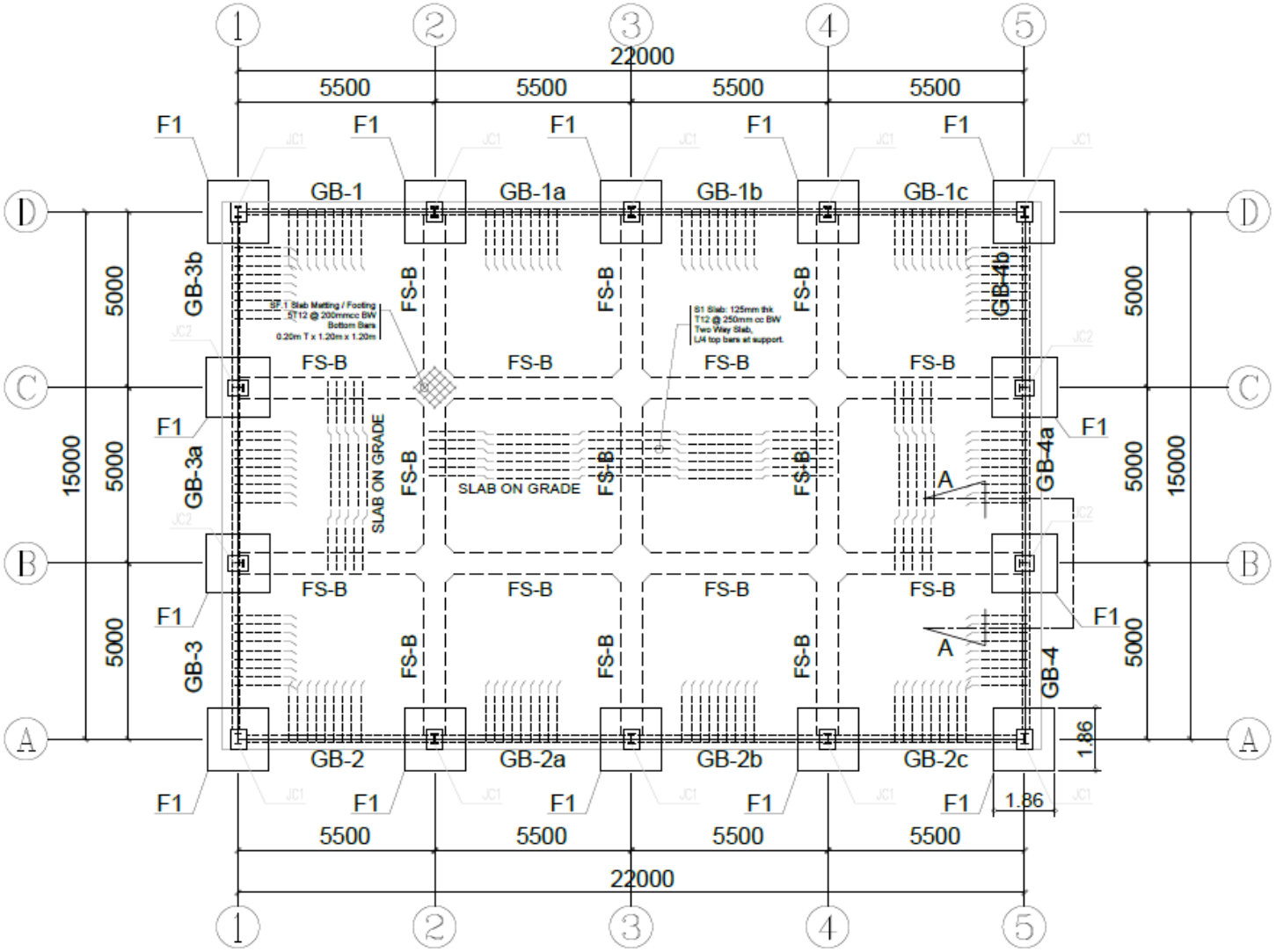
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL
PUERTO PRINCESA

RECOMMENDING APPROVAL:

REGIONAL/ARCHITECTURAL SECTION _____ DATE

APPROVED:

BUILDING OFFICIAL _____ DATE



GROUND FLOOR BEAM

DESIGNER:	DEVELOPER:	CERTIFIED BY:	PROJECT TITLE:	OWNER / CLIENT:	TITLE / DESCRIPTION:	THIS DRAWING IS ISSUED FOR:	SHEET NO:
JDC ENGINEERING & DESIGN OFFICE JECO DEVELOPMENT CORPORATION Sheridan Building, Osano Avenue, Mandaue City, Cebu	JECO DEVELOPMENT CORPORATION 2 FLOOR, SHERIDAN BUILDING, OSANO AVENUE, CEBU CITY PHILIPPINES	ENGR. JOSE MAR. G. GENCIANA CIVIL ENGINEER/JDC EDO TIN NO. : 417-622-224 PRC NO. : 046688 PTR NO. : 2774760 DRAFTED BY : JMG/ RMA	FOUR POINTS BY SHERATON PALAWAN Puerto Princessa PROPOSED WAREHOUSE 330m2 LOCATION: CABAYUGAN, PUERTO PRINCESSA, PALAWAN	JEFFERSON C. TAN	GROUND BEAM	☐ AS-BUILT ☐ ESTIMATE ☐ BIDDING ☐ FABRICATION ■ BUILDING PERMIT ☐ OWNER'S APPROVAL ■ CONSTRUCTION ☐ PRESENTATION REV: DATE: MAR. 01, 2021	S 1.1

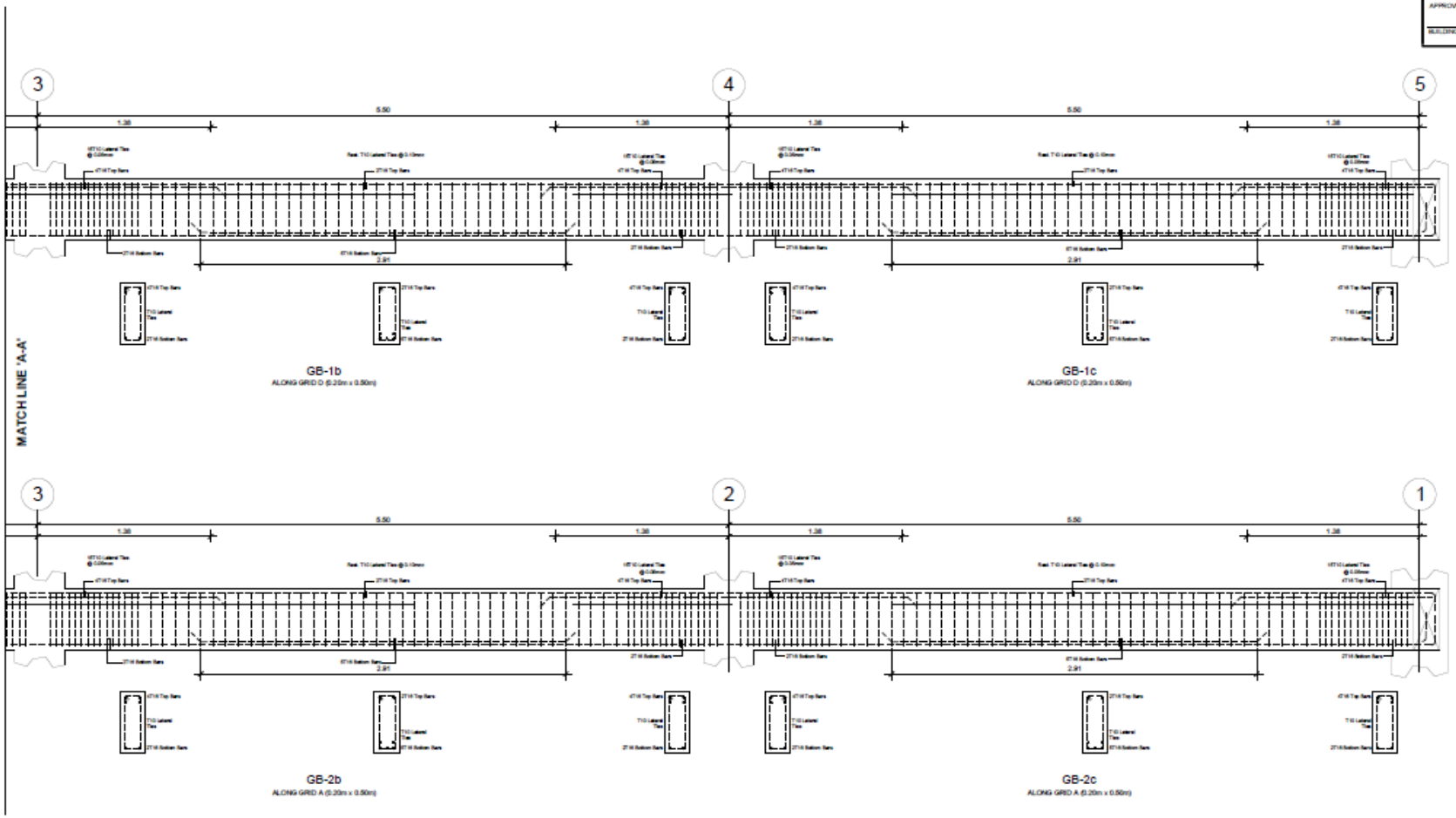
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS
AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL
PUERTO PRINCESA

RECOMMENDING APPROVAL:

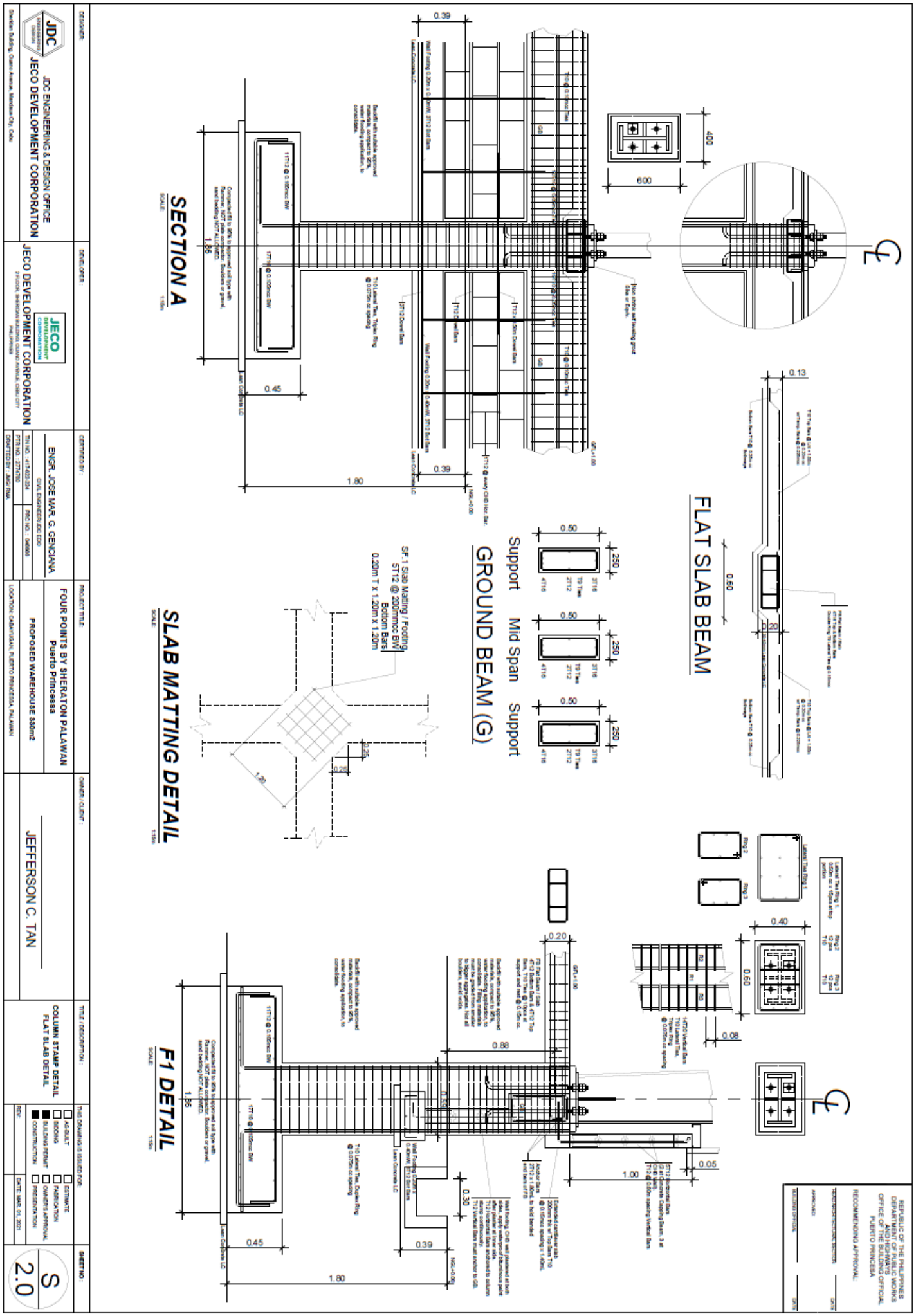
HEAD ARCHITECTURAL SECTION — DATE

APPROVED:

BUILDING OFFICIAL — DATE



DESIGNER: JDC ENGINEERING & DESIGN OFFICE, JECO DEVELOPMENT CORPORATION, Sheridan Building, Quano Avenue, Mandaue City, Cebu	DEVELOPER: JECO DEVELOPMENT CORPORATION, 2 FLOOR, SHERIDAN BUILDING, QUANO AVENUE, CEBU CITY PHILIPPINES	CERTIFIED BY: ENGR. JOSE MAR. G. GENCIANA, CIVIL ENGINEER/JDC EDO; TIN NO. : 417-622-224; PRC NO. : 046668; PTR NO. : 2774760; DRAFTED BY : JMG/ RMA	PROJECT TITLE: FOUR POINTS BY SHERATON PALAWAN Puerto Princessa; PROPOSED WAREHOUSE 330m2; LOCATION: CABAYUGAN, PUERTO PRINCESSA, PALAWAN	OWNER / CLIENT: JEFFERSON C. TAN	TITLE / DESCRIPTION: GROUND BEAM DETAIL	THIS DRAWING IS ISSUED FOR: ☐ AS-BUILT ☐ ESTIMATE ☐ BIDDING ☐ FABRICATION ■ BUILDING PERMIT ☐ OWNER'S APPROVAL ■ CONSTRUCTION ☐ PRESENTATION; REV: ; DATE: MAR. 01, 2021	SHEET NO: S 1.3


SECTION A
SCALE
1.80
0.45
0.39
0.13
FLAT SLAB BEAM
0.50
0.40
0.60
0.08
GROUND BEAM (G)
Support
Mid Span
Support
0.50
0.50
0.50
250
250
250
SLAB MATTING DETAIL
SF-1 Slab Matting / Footing
ST12 @ 200mmoc BW
Bottom Bars
0.20m T x 1.20m x 1.20m
F1 DETAIL
SCALE
1.80
0.45
0.39
0.30
0.05
1.00
0.88
0.20
0.40
0.60
0.08
0.13
0.39
1.86
DESIGNER:
JDC ENGINEERING & DESIGN OFFICE
JECO DEVELOPMENT CORPORATION
Sheridan Building, Osmeo Avenue, Mandaue City, Cebu
DEVELOPER:
JECO DEVELOPMENT CORPORATION
CERTIFIED BY:
ENGR. JOSE MAR G. GENCHANA
CIVIL ENGINEER/JDC EDO
PRC NO. : 0
DRAFTED BY : JMG/ RMA
PROJECT TITLE:
FOUR POINTS BY SHERATON PALAWAN
Puerto Princesa
PROPOSED WAREHOUSE 980m2
LOCATION: CABAYUGAN, PUERTO PRINCESSA, PALAWAN
OWNER / CLIENT :
JEFFERSON C. TAN
TITLE / DESCRIPTION :
COLUMN STAMP DETAIL
FLAT SLAB DETAIL
THIS DRAWING IS ISSUED FOR:
AS-BUILT
BIDDING
BUILDING PERMIT
CONSTRUCTION
ESTIMATE
FABRICATION
OWNER'S APPROVAL
PRESENTATION
REV:
DATE: MAR. 01, 2021
SHEET NO :
S 2.0
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS
AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL
PUERTO PRINCESA
RECOMMENDING APPROVAL:
APPROVED:
BUILDING OFFICIAL
DATE

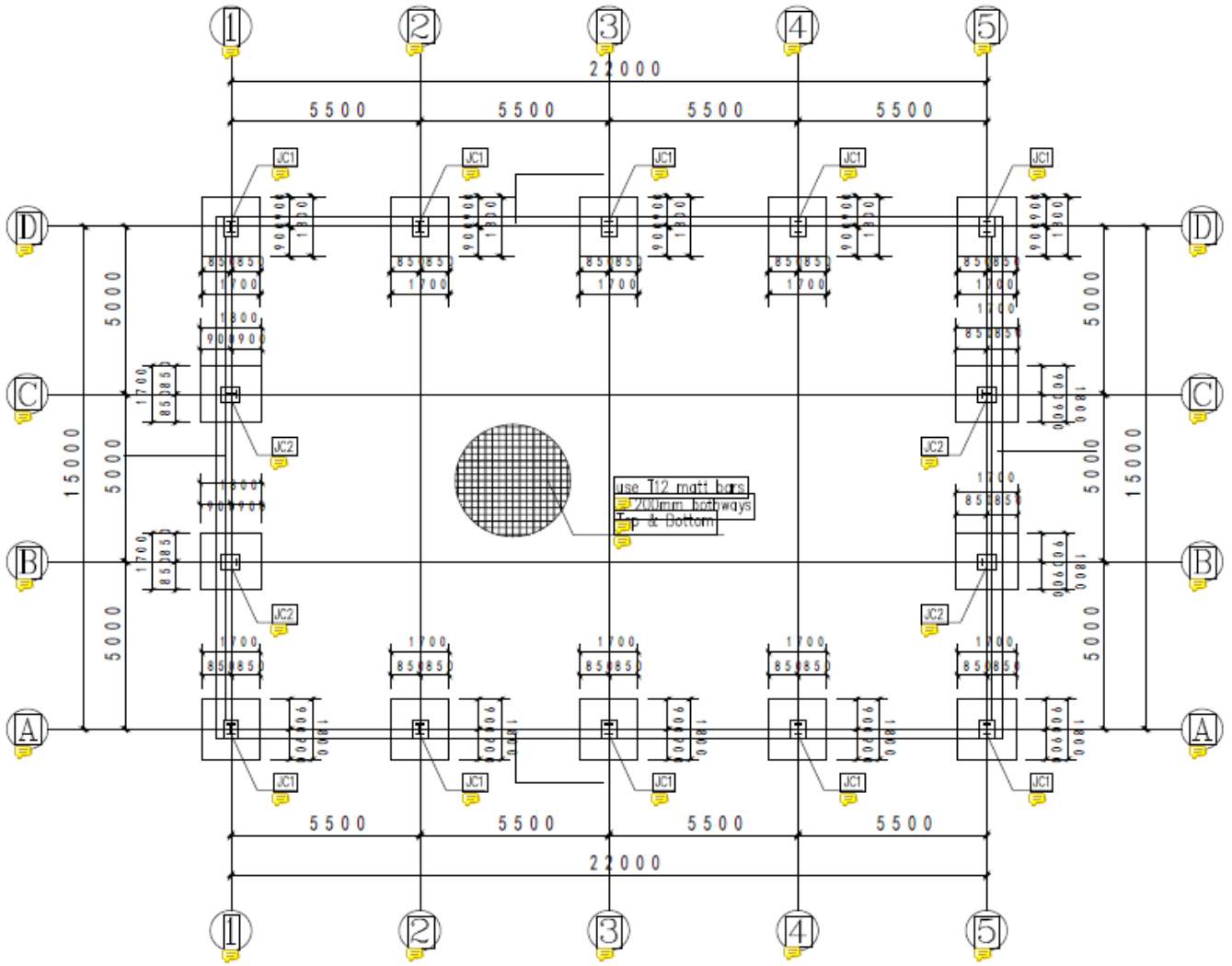
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL
PUERTO PRINCESA

RECOMMENDING APPROVAL:

HEAD ARCHITECTURAL SECTION — DATE

APPROVED:

BUILDING OFFICIAL — DATE



FOUNDATION PLAN

THIS DRAWING IS ISSUED FOR:

☐ AS-BUILT	☐ ESTIMATE
☐ BIDDING	☐ FABRICATION
■ BUILDING PERMIT	☐ OWNER'S APPROVAL
■ CONSTRUCTION	☐ PRESENTATION

REV: — DATE: MAR. 01, 2021

PREPARED BY THE OFFICE OF:

Qingdao Rui Gang Industry and Trade Co., Ltd.

JECO DEVELOPMENT CORPORATION
LACSON ST. EXT, MAGKAYSAY AVENUE, BRGY. TACULING, BACOLOD CITY, NEG. OCC.
TEL. NO. 435-1567, FAX NO. 435-5426

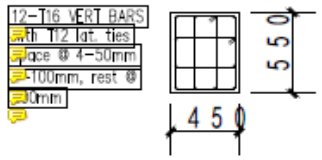
ENGR. JOSE MAR. G. GENCIANA
CIVIL ENGINEER
PRC NO.: 040608 — VALIDITY: 2021
PTR NO.: 0774793 — DATE: 01.02.2021
PLACE: — TIN: 4[illegible]

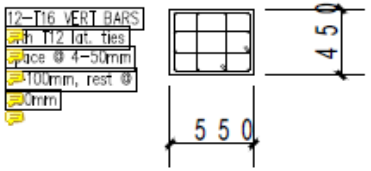
PROJECT TITLE:
WAREHOUSE
LOCATION:

APPROVED BY:
JOSEPH T. TAN
PRESIDENT
OWNER

SHT. CONTENTS:
FOUNDATION PLAN

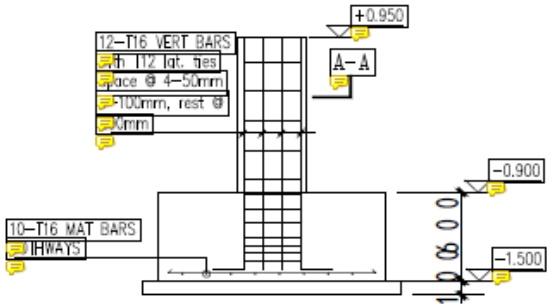
DESIGNED BY :	PROJECT NO. :
DRAWN BY :	SHEET NO. :
CHECKED BY :	S 1.0
REVISION NO. :	
SCALE	
DATE : AUGUST 16, 2019	255 / REV. : -

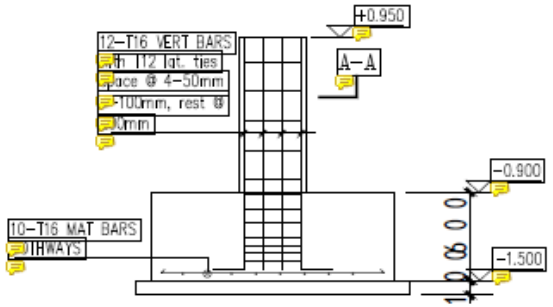


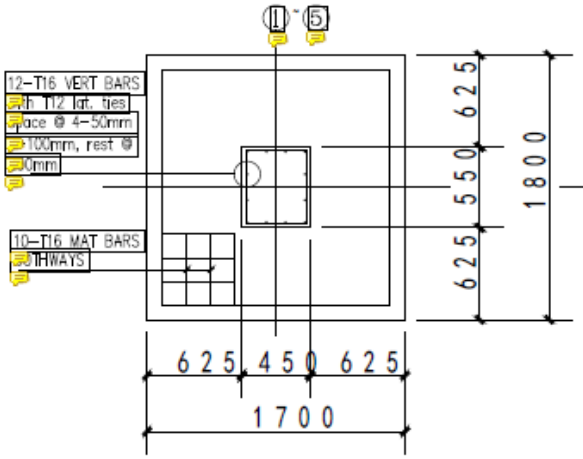


point foundation design illumination

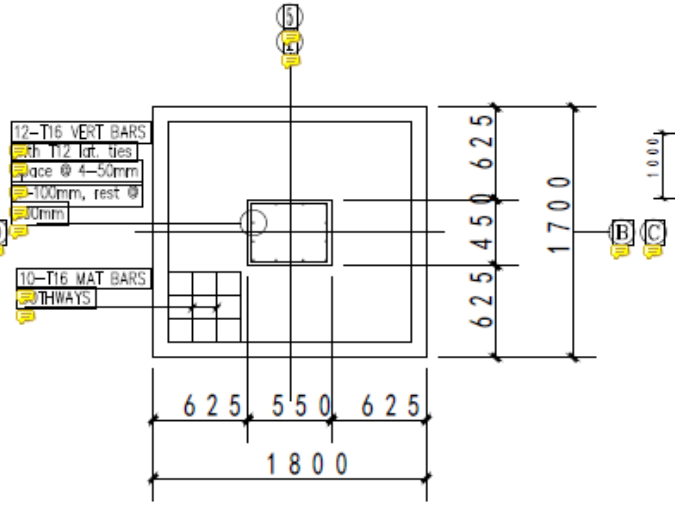
1. according to the geologic report, the load bearing layer is the 2nd soil layer, silt clay. the layer load bearing ability should be fk=180Kpa or more. The mixed backfill soil, garbage, mud and so on should be cleaned first. After dig into the 2nd soil layer, the the required bearing capacity cannot be reached after excavation, the construction shall allowed only when the compaction reaches the designed value
2. The concrete for the point foundation under the columns should be C30 grade, under the point foundation, need 100mm pure concrete cushion, the size 100mm bigger than the point foundation in width and length.
3. The back filled soil should be down around the point foundation at the same time, and tamped in layers.
4. Embedded bolts use steel Q235.
5. below the elevation height -0.06m, need 20mm 1:2 concrete mortar, mixed with 5% ferric chloride waterproofing agent.
6. After the foundation slot dig finished, design and investigation party should check the slot carefully, if approved the foundation construction start, if not then need other treatment according to different situation.
7. The foundation top need reservated hole for anti-share lug, size 150×150×150mm in the center of the bolts.
8. The area that short post of the point foundation meet with the bar foundation, could be polished by pure concrete.



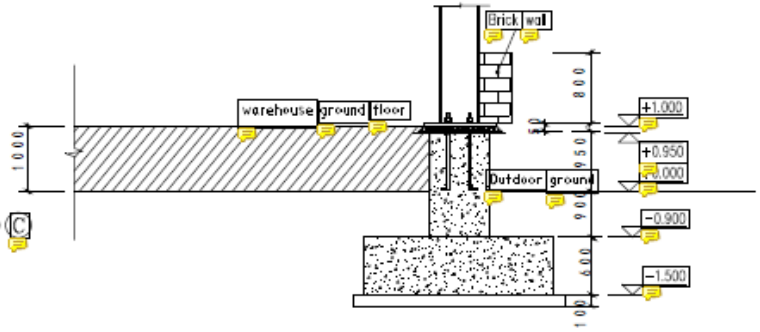




JC1 DETAILS



JC2 DETAILS



FOUNDATION STRUCTURE DIAGRAM

PREPARED BY THE OFFICE OF: Qingdao Rui Gang Industry and Trade Co., Ltd.	JECO DEVELOPMENT CORPORATION — LACSON ST. EXT, MAGKAYSAY AVENUE, BRGY. TACULING, BACOLOD CITY, NEG. OCC. TEL. NO. 435-2567, FAX NO. 435-5426	CIVIL ENGINEER	PROJECT TITLE: WAREHOUSE	APPROVED BY: JOSEPH T. TAN, PRESIDENT	SHT. CONTENTS: JC1 DETAILS; JC2 DETAILS; FOUNDATION STRUCTURE DIAGRAM; POINT FOUNDATION DESIGN ILLUMINATION	DESIGNED BY: / DRAWN BY: / CHECKED BY: / REVISION NO.: / SCALE / DATE: AUGUST 14, 2019	PROJECT NO.: / SHEET NO.: S 2.0 / SSS / REV. -
			LOCATION:	OWNER			

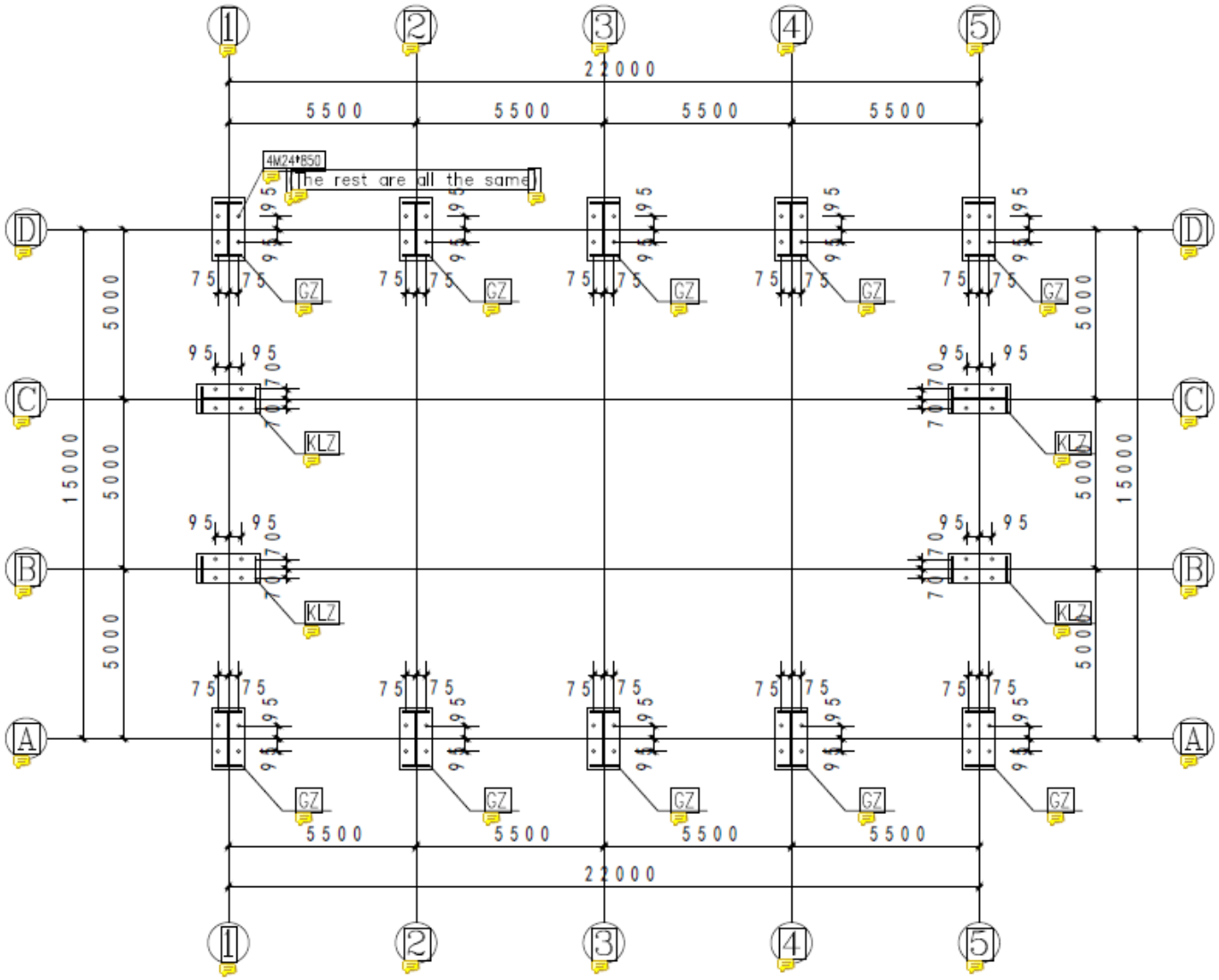
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL
PUERTO PRINCESA

RECOMMENDING APPROVAL:

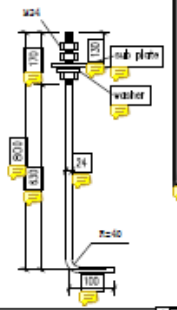
HEAD ARCHITECTURAL SECTION — DATE

APPROVED:

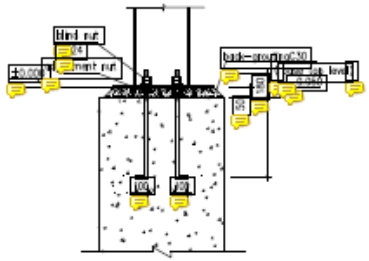
BUILDING OFFICIAL — DATE



FOUNDATION BOLT ARRANGEMENT



Foundation bolt(Ø24)



Steel column foor anchor bolt detail

allowed error for the anchor bolts pre-buried:

1. for the same bolts team, center distance error should not more than 2mm;
2. for the neighboring bolts team, center distance error should not more than 3mm;
3. all the bolts top should be in the same level, allowed error ±12MM;
4. for all the bolts in the same line, center error should not more than 6mm in every 30m distance; total center distance error should not more than 25mm;
5. the distance for anchor bolts team center and its axis should obey the drawing, allowed error 3mm;
6. the items listed above (2.3.4.5.) is also valid for the bolts not fixed on the axis line.
7. foundation surface should be in the same level, allowed error ± 3mm and the error should not more than 1/970;

notes for the installation of the embedded bolts:

1. before the installation work, please check the bolts against the drawing carefully.
2. bolts location confirmed first then, fix the bolts to avoid location move in the following work.
3. the bolts screw thread should be protected from durty in the installation work. each bolts have 3 caps, 1 washer and 1 base plate.
4. the foundation top layer should be made by C35 fine stone non-shrinkage concrete, after column instal finished.
5. embedded bolts use steel Q235.
6. all the bolts caped by double cap nuts then cover the point foundation foot with C30 concrete, to the height of workshop inside level height ±0.000(-0.150).

THIS DRAWING IS ISSUED FOR:

☐	AS-BUILT	☐	ESTIMATE
☐	BIDDING	☐	FABRICATION
■	BUILDING PERMIT	☐	OWNER'S APPROVAL
■	CONSTRUCTION	☐	PRESENTATION

REV: — DATE: MAR. 01, 2021

PREPARED BY THE OFFICE OF:

Qingdao Rui Gang Industry and Trade Co., Ltd.

JECO DEVELOPMENT CORPORATION
LACSON ST. EXT. MAGSAYSAY AVENUE, BRGY. TACULING, BACOLOD CITY, NEG. OCC.
TEL. NO. 435-1563; FAX NO. 435-5420

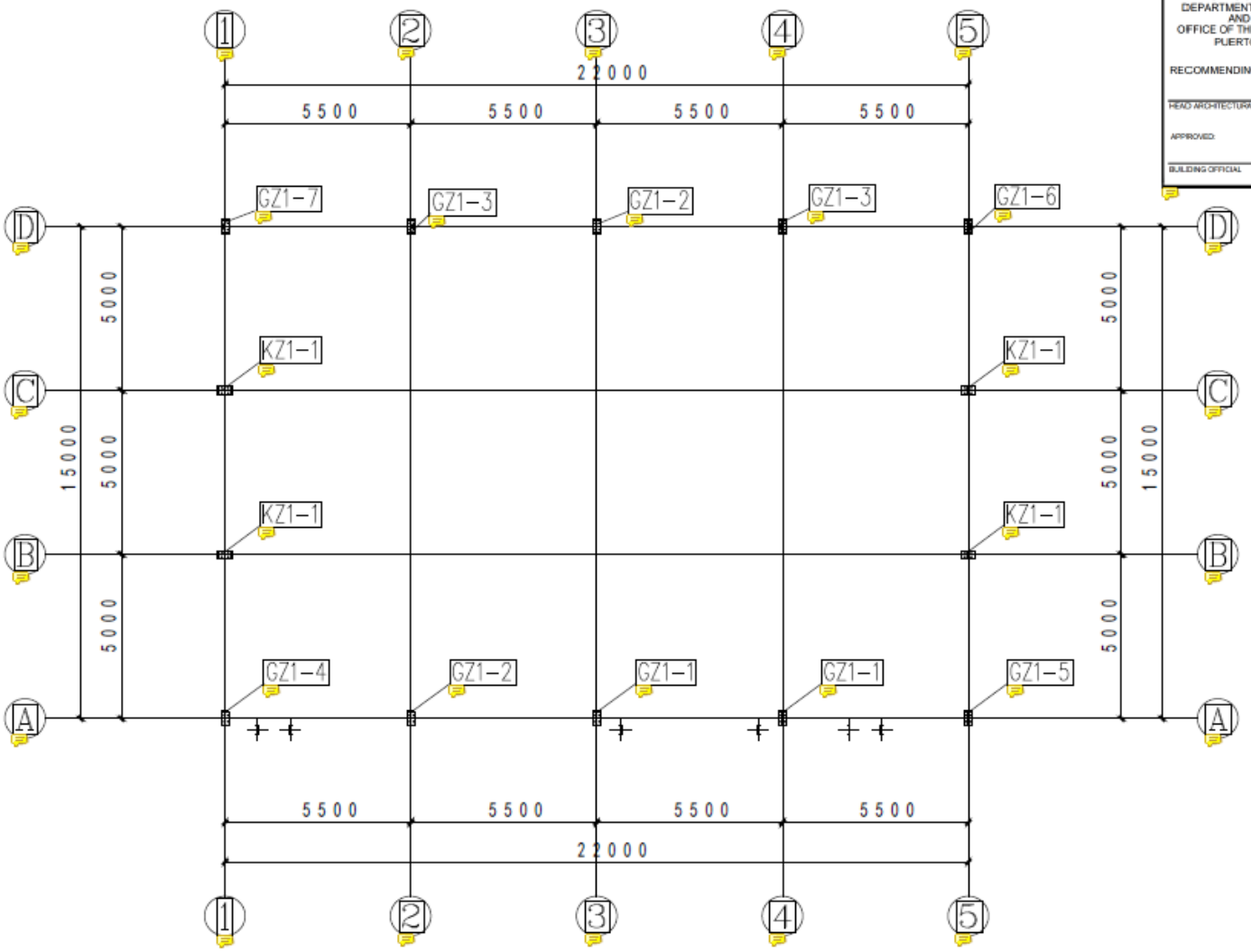
ENGR. JOSE MAR. G. GENCIANA
CIVIL ENGINEER
PRC NO. : 040898 — VALIDITY : 2021
PTR NO. : 7773783 — DATE : 02-02-2021
PLACE — TIN — 457-602-324-000-NON

PROJECT TITLE:
WAREHOUSE
LOCATION:

APPROVED BY:
JOSEPH T. TAN
PRESIDENT
OWNER

SHT. CONTENTS:
FOUNDATION BOLT ARRANGEMENT
STEEL COLUMN FOOT ANCHOR BOLT DETAIL
FOUNDATION BOLT (Ø24)

DESIGNED BY :	PROJECT NO. :
DRAWN BY :	SHEET NO. :
CHECKED BY :	S 3.0
REVISION NO. :	
SCALE	
DATE : AUGUST 16, 2019	255 / REV. -



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL
PUERTO PRINCESA

RECOMMENDING APPROVAL:

HEAD ARCHITECTURAL SECTION — DATE

APPROVED:

BUILDING OFFICIAL — DATE

Component list

Type	NO.	Dimension(mm)	Material
column	GZ1-1~7	H(400~650)X200X8X10	Q345B
	KZ1-1	H400X200X6X8	Q345B

COLUMN ARRANGEMENT PLAN

THIS DRAWING IS ISSUED FOR:

- [ ] AS-BUILT
- [ ] BIDDING
- [x] BUILDING PERMIT
- [x] CONSTRUCTION
- [ ] ESTIMATE
- [ ] FABRICATION
- [ ] OWNER'S APPROVAL
- [ ] PRESENTATION

REV: — DATE: MAR. 01, 2021

PREPARED BY THE OFFICE OF:

Qingdao Rui Gang Industry and Trade Co., Ltd.

JECO DEVELOPMENT CORPORATION
LACSON ST. EXT; MAGSAYSAY AVENUE, BRGY. TACULING, BACOLOD CITY, NEG.OCC.
TEL. NO. 435-1563, FAX NO. 435-5426

ENGR. JOSE MAR. G. GENCIANA
CIVIL ENGINEER
PRC NO. : 040888 — VALIDITY : 2021
PTR NO. : 2774780 — DATE : 01.04.2021
PLACE : — SSS : 03-4524004-4

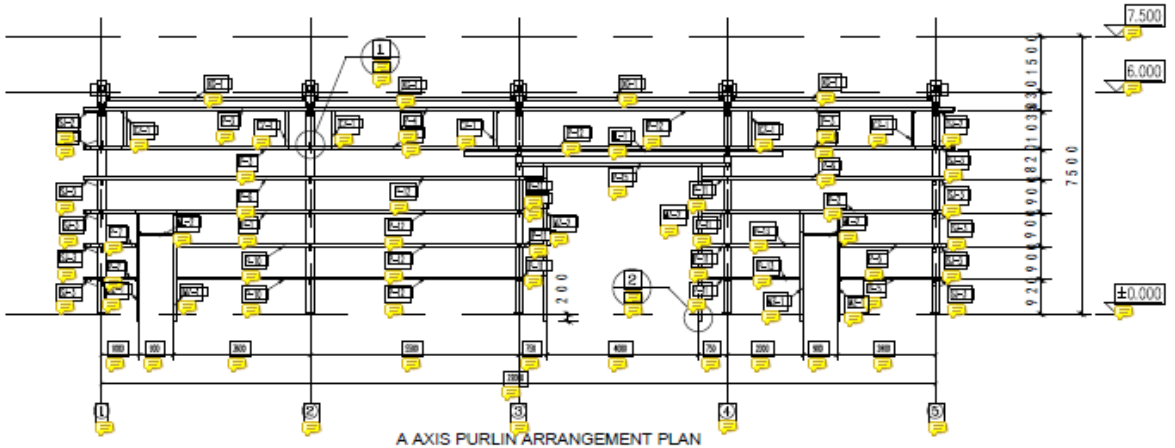
PROJECT TITLE:
WAREHOUSE
LOCATION:

APPROVED BY:
JOSEPH T. TAN
PRESIDENT
OWNER

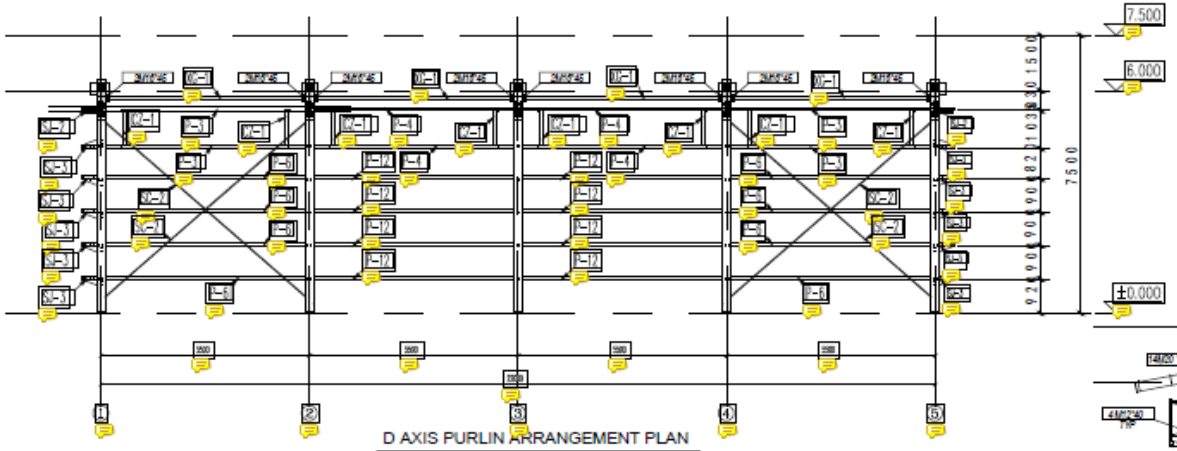
SHT. CONTENTS:
COLUMN ARRANGEMENT PLAN
COMPONENT LIST

DESIGNED BY :
DRAWN BY :
CHECKED BY :
REVISION NO. :
SCALE
DATE : AUGUST 16, 2019

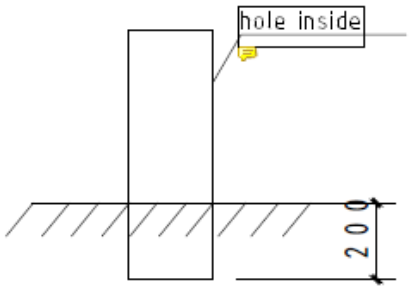
PROJECT NO. :
SHEET NO. : S 4.0
DS / REV. : -



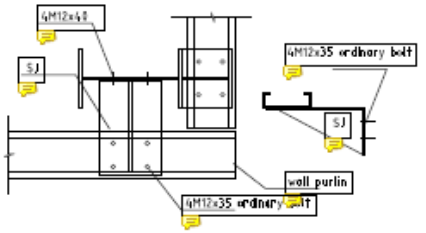
A AXIS PURLIN ARRANGEMENT PLAN



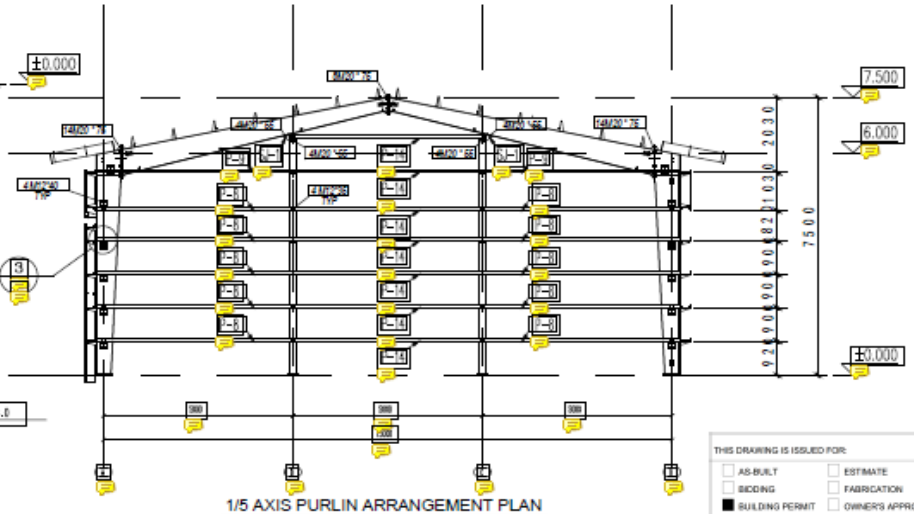
D AXIS PURLIN ARRANGEMENT PLAN



② door column base



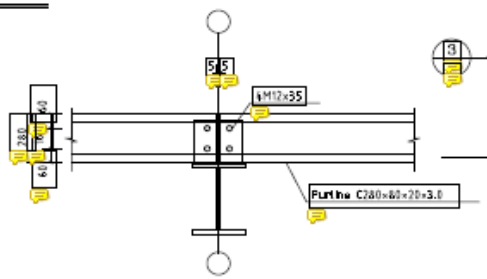
③ Corner wall purlin connection



1/5 AXIS PURLIN ARRANGEMENT PLAN

Component list

Type	NO.	Dimension(mm)	Material
purlin	P-*&CZ-*	C280*80*20*3.0	Q345B
檩	ML-*&MZ-*	C280*80*20*3.0	Q345B
横	TL-1	C16A	Q235B
斜	XG-1	PD89*2.5	Q235B
支	SC-2	D20	Q235B
拼	SJ1-SJ3	Purlin plates connecting on site	Q345B



① Wall purline

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DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL
PUERTO PRINCESA

RECOMMENDING APPROVAL:

HEAD ARCHITECTURAL SECTION — DATE

APPROVED:

BUILDING OFFICIAL — DATE

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- [ ] AS-BUILT
- [ ] BIDDING
- [x] BUILDING PERMIT
- [x] CONSTRUCTION
- [ ] ESTIMATE
- [ ] FABRICATION
- [ ] OWNER'S APPROVAL
- [ ] PRESENTATION

REV: — DATE: MAR. 01, 2021

PREPARED BY THE OFFICE OF:

Qingdao Rui Gang Industry and Trade Co., Ltd.

JECO DEVELOPMENT CORPORATION
LACSON ST. EXT. MAGSAYSAY AVENUE, BRGY. TACULING, BACOLOD CITY, NEG. OCC.
TEL. NO. 435-1367; FAX NO. 435-5420

ENGR. JOSE MAR. G. GENCIANA
CIVIL ENGINEER
PRC NO. 040808 — VALIDITY 2021
PTR NO. 0734780 — DATE
PLACE — TIN

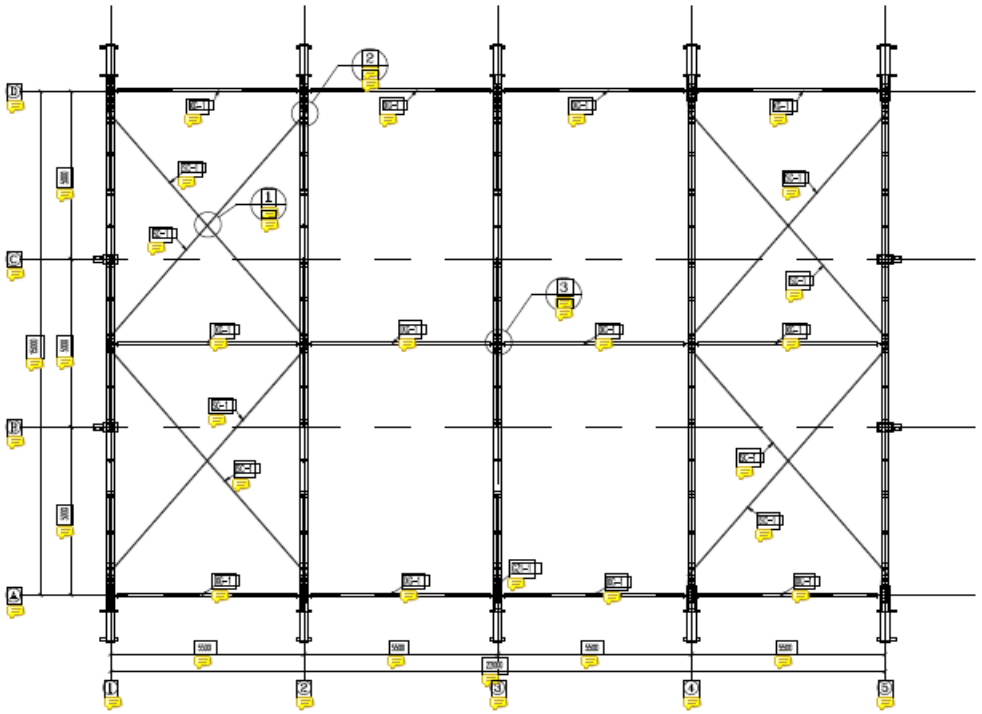
PROJECT TITLE:
WAREHOUSE
LOCATION:

APPROVED BY:
JOSEPH T. TAN
PRESIDENT
OWNER

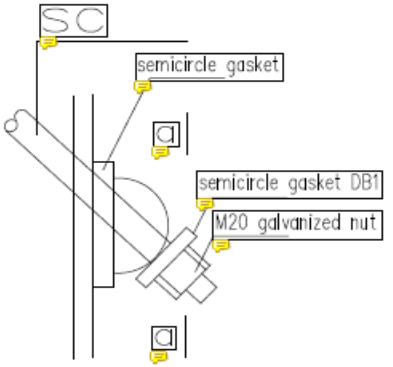
SHT. CONTENTS:
A- AXIS PURLIN ARRANGEMENT PLAN
D- AXIS PURLIN ARRANGEMENT PLAN
1/5 AXIS PURLIN ARRANGEMENT PLAN
WALL PURLINE
DOOR COLUMN BASE
CORNER WALL CONNECTION DETAIL
COMPONENT LIST

DESIGNED BY :
DRAWN BY :
CHECKED BY :
REVISION NO. :
SCALE
DATE : AUGUST 26, 2019

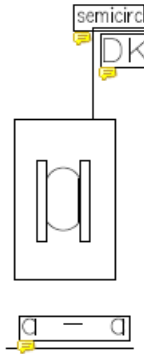
PROJECT NO. :
SHEET NO. : S 6.0
SHS / REV. -



ROOF HORIZONTAL TIE BAR ARRANGEMENT PLAN



② SC and beam joint



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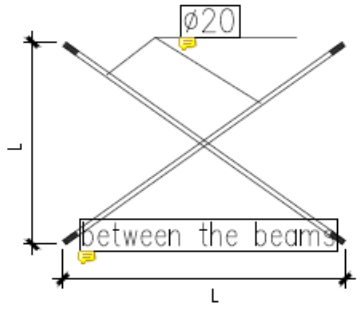
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL
PUERTO PRINCESA

RECOMMENDING APPROVAL:

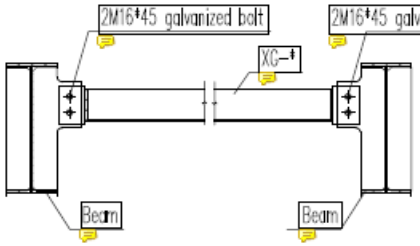
HEAD ARCHITECTURAL SECTION — DATE

APPROVED:

BUILDING OFFICIAL — DATE



① SC brace installation sketch



③ Tie bar(XG-*)detailed layout

Component list

Type	NO.	Dimension(mm)	Material
Tie bar	XG-1	PD89*2.5	Q235B
Support	SC-1	D20	Q235B

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- ☐ OWNER'S APPROVAL
- ☐ PRESENTATION

REV: — DATE: MAR. 01, 2021

PREPARED BY THE OFFICE OF:

Qingdao Rui Gang Industry and Trade Co., Ltd.

JECO DEVELOPMENT CORPORATION

JECO DEVELOPMENT CORPORATION
LACSON ST. EXT; MAGSAYSAY AVENUE, BRGY. TACULING, BACOLOD CITY, NEG. OCC.
TEL. NO. 435-1567, FAX NO. 435-5420

ENGR. JOSE MAR. G. GENCIANA
CIVIL ENGINEER
PRC NO. : 089888 — VALID TY. 2021
PTR NO. : 2774780 — DATE : 02.02.2021
BLACK — ISSUED AT : 417-628-324

PROJECT TITLE:
WAREHOUSE

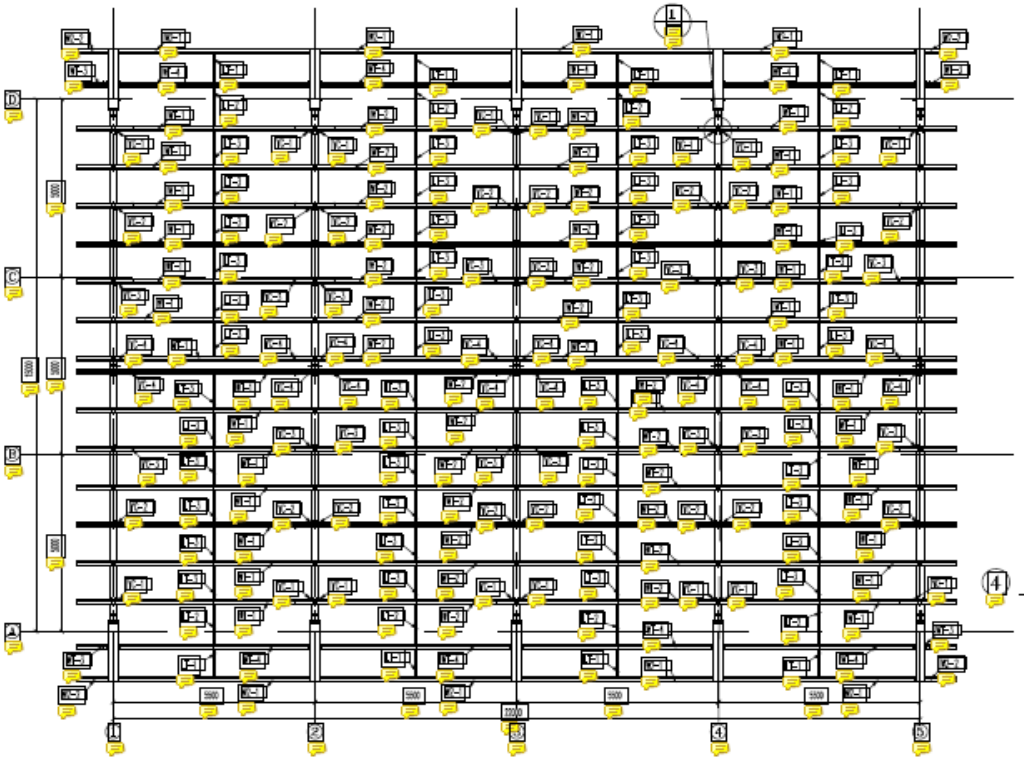
LOCATION:

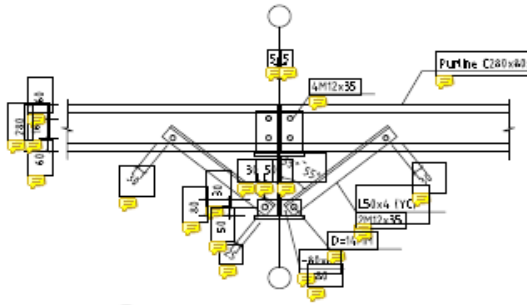
APPROVED BY:
JOSEPH T. TAN
PRESIDENT
OWNER

SHT. CONTENTS:
ROOF HORIZONTAL TIE BAR ARRANGEMENT PLAN
SC BRACE INSTALLATION SKETCH
SC AND BEAM JOINT
TIE BAR(XG-*)DETAILED LAYOUT
COMPONENT LIST

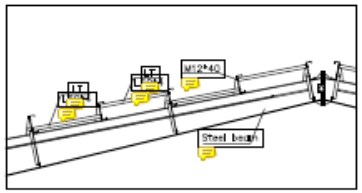
DESIGNED BY :
DRAWN BY :
CHECKED BY :
REVISION NO. :
SCALE
DATE : AUGUST 16, 2019

PROJECT NO. :
SHEET NO. : S 7.0
255 / REV. : -

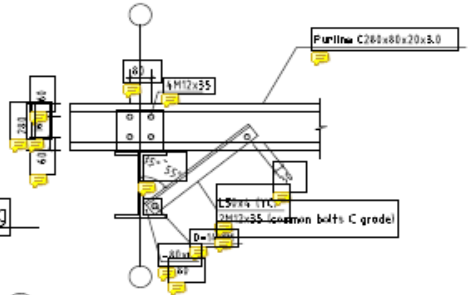




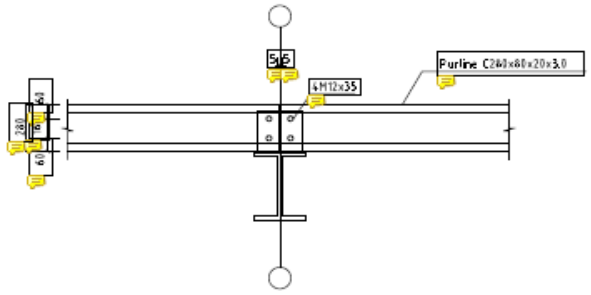
① Roof Knee- Bracing



④ Roof Brace Installation node drawing



③ Roof Knee- Bracing



② Roof Purlin

Component list

Type	NO.	Dimension(mm)	Material
Roof purlin	WT-*	C280*80*20*3.0	Q235B
Brace	LT-*	L50*4.0	Q235B
Angle steel	YC-*	L50*4.0	Q235B

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DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL
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- [ ] OWNER'S APPROVAL
- [ ] PRESENTATION

REV: — DATE: MAR. 01, 2021

PREPARED BY THE OFFICE OF:

Qingdao Rui Gang Industry and Trade Co., Ltd.

JECO DEVELOPMENT CORPORATION
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ENGR. JOSE MAR. G. GENCIANA
CIVIL ENGINEER
PRC NO. 0 — VALIDITY
PTR NO. — DATE
PLACE — TIN

PROJECT TITLE: WAREHOUSE

LOCATION:

APPROVED BY: JOSEPH T. TAN — OWNER

SHT. CONTENTS: ROOF KNEE-BRACING; ROOF PURLIN; ROOF BRACE INSTALLATION NODE DRAWING; COMPONENT LIST

DESIGNED BY:
DRAWN BY:
CHECKED BY:
REVISION NO.:
SCALE
DATE : AUGUST 16, 2019

PROJECT NO.:
SHEET NO.: S 8.0
SIS / REV.: -

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AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL
PUERTO PRINCESA

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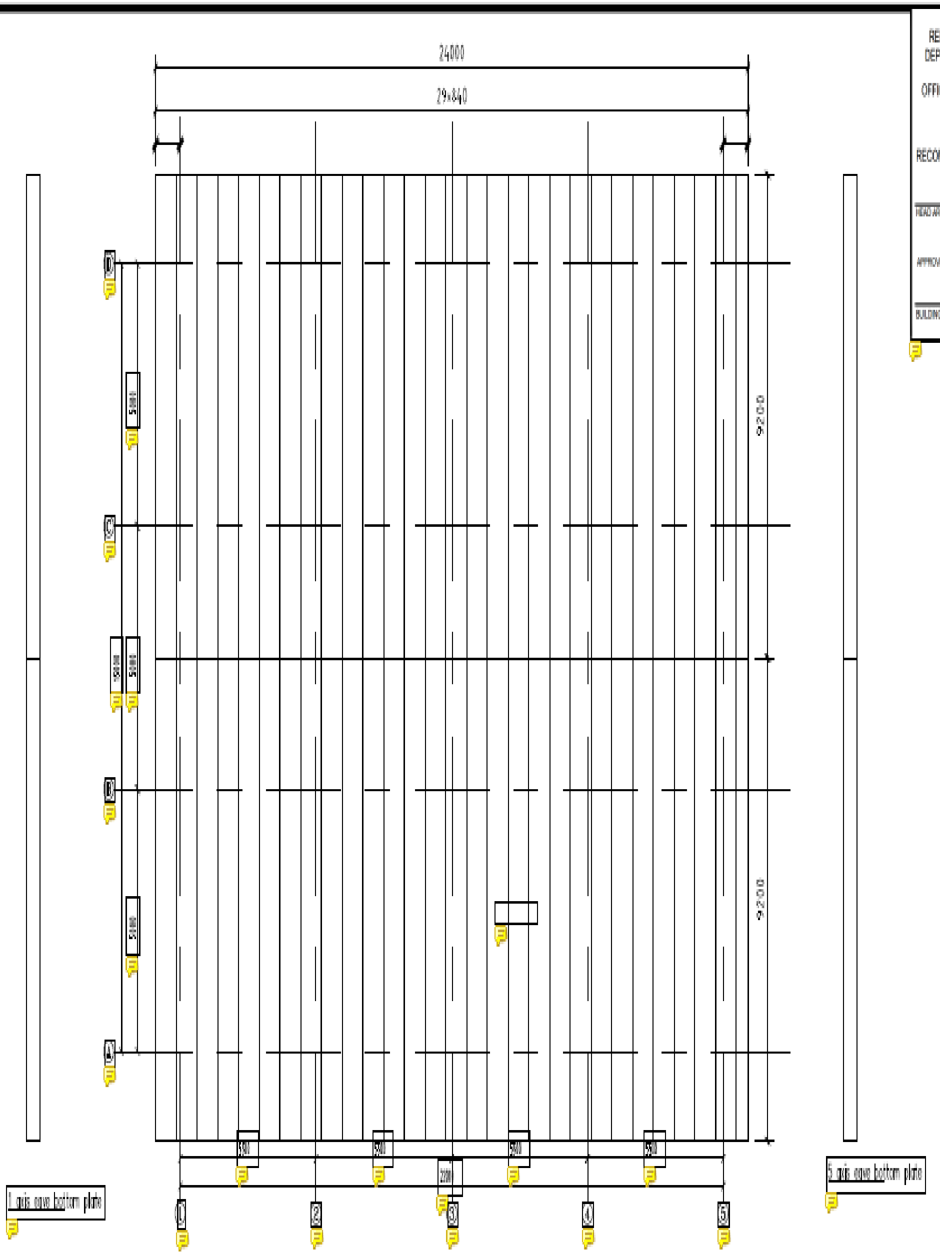
HEAD ARCHITECTURAL SECTION DATE

APPROVED:

BUILDING OFFICIAL DATE

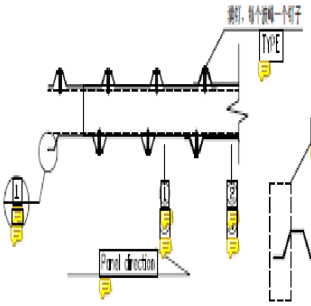


ROOF PANEL ARRANGEMENT PLAN

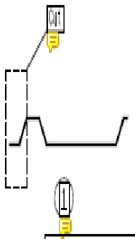
0.5mm thick V840 steel sheet，white gray color，RAL9002

L=9200mm，total 58+4 pieces;

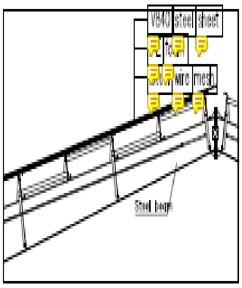
Panel direction



Eave bottom plate installation details



Eave bottom plate installation details



Roof panel installation instructions

First, install steel wire mesh.
Second, PE foam
Third, V840 roof single sheet

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■ BUILDING PERMIT ☐ OWNER'S APPROVAL
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PREPARED BY THE OFFICE OF:

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LACSON ST. EXT, MAGSAYSAY AVENUE, BRGY. TACULING, BACOLOD CITY, NEG.OCC.
TEL. NO. 435-2863, FAX NO. 435-5620

ENGR. JOSE MAR G. GENCIANA
CIVIL ENGINEER
PRC NO.: [illegible] VALIDITY: 2021
PTR NO.: [illegible] DATE: [illegible]
PLACE: TIN: [illegible]

PROJECT TITLE:
WAREHOUSE

LOCATION:

APPROVED BY:
JOSEPH T. TAN
PRESIDENT
OWNER

SHT. CONTENTS:
ROOF PANEL ARRANGEMENT PLAN
ROOF PANEL INSTALLATION INSTRUCTIONS
EAVE BOTTOM PLATE INSTALLATION DETAILS

DESIGNED BY:
DRAWN BY:
CHECKED BY:
REVISION NO.:
SCALE
DATE : AUGUST 16, 2019

PROJECT NO.:
SHEET NO.:
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DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL
PUERTO PRINCESA

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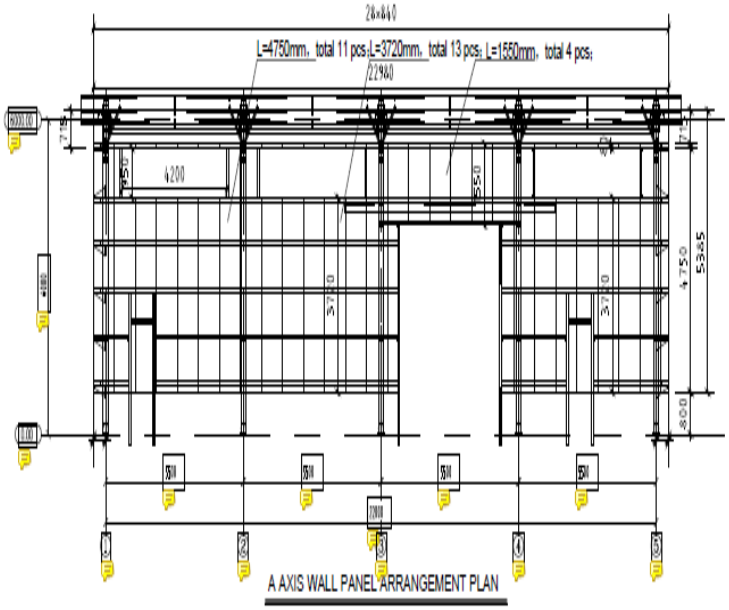
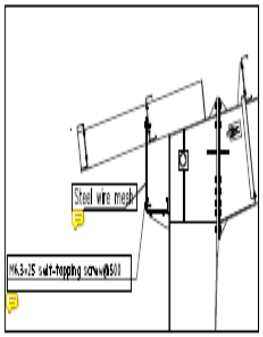
APPROVED:

BUILDING OFFICIAL — DATE

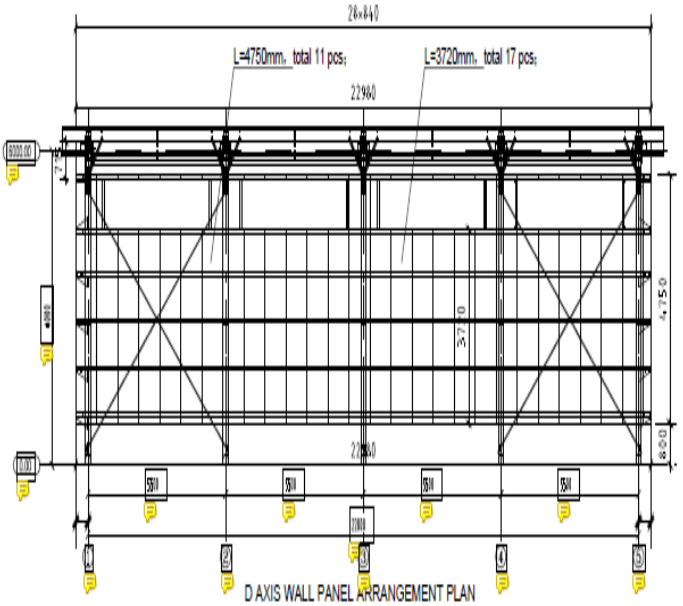


A AXIS WALL PANEL ARRANGEMENT PLAN

Panel direction



Steel wire mesh installation details



D AXIS WALL PANEL ARRANGEMENT PLAN

0.5mm thick V840 steel sheet, white gray color
L=4750mm, total 22 pcs;
L=3720mm, toal 30 pcs;
L=1550mm, total 4 pcs;

Diameter 2.5mm galvanized wire mesh
L=715*22980mm, total 2 pcs;

Panel direction

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- [ ] PRESENTATION

REV: — DATE: MAR. 01. 2021

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JECO DEVELOPMENT CORPORATION

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LACSON ST. EXT, MAGHATTAT AVENUE, BRGY. TACLING, BACOLOD CITY, NEG. OCC.
TEL. NO. 435-5367; FAX NO. 435-5428

ENGR. JOSE MAR. G. GENCIANA
CIVIL ENGINEER
PRC NO.: 68888 — VALIDITY: 2021
PTR NO.: 5574780 — DATE: 01.01.2021
BLK/L: — TIN: 457-850-224

PROJECT TITLE:
WAREHOUSE

LOCATION:

APPROVED BY:
JOSEPH T. TAN
PROPRIETOR
OWNER

SHT. CONTENTS:
A AXIS WALL PANEL ARRANGEMENT PLAN
D AXIS WALL PANEL ARRANGEMENT PLAN
STEEL WIRE MESH INSTALLATION DETAILS

DESIGNED BY:
DRAWN BY:
CHECKED BY:
REVISION NO.:
SCALE
DATE : AUGUST 16, 2019

PROJECT NO.:
SHEET NO.: S 10.0
DWG REV.: -

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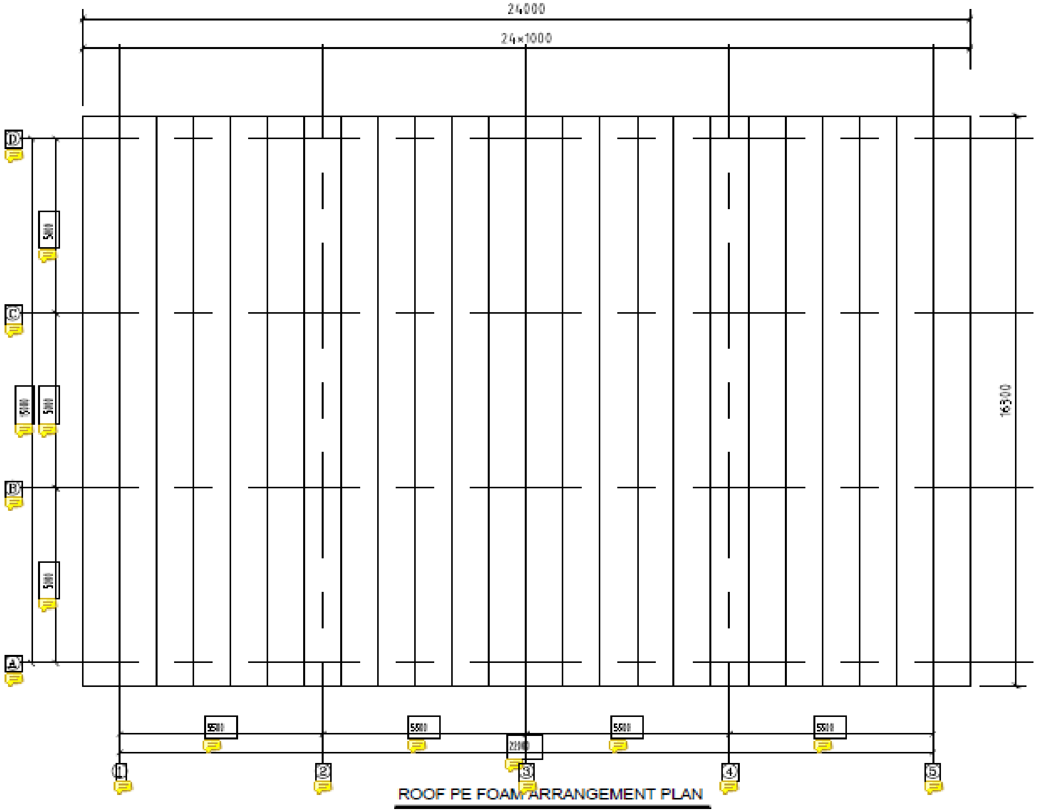
AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL
PUERTO PRINCESA

RECOMMENDING APPROVAL:

HEAD ARCHITECTURAL SECTION DATE

APPROVED:

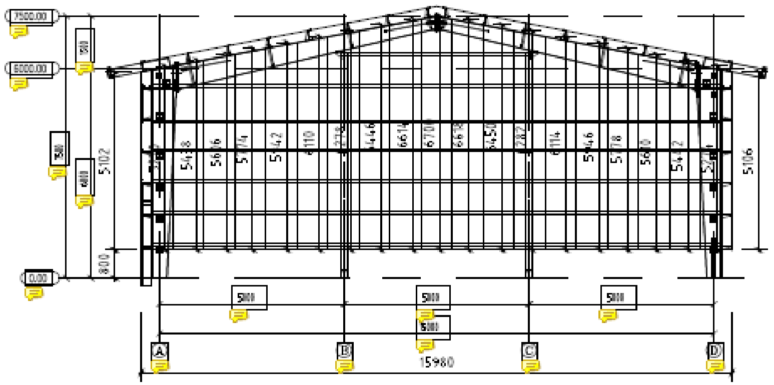
BUILDING OFFICIAL DATE



ROOF PE FOAM ARRANGEMENT PLAN

10mm thick V1000 PE foam
L=16300mm，24 pcs；

Panel direction



1 & 5 AXIS WALL PANEL ARRANGEMENT PLAN

0.5mm thick V840 steel sheet，white gray color

L=5275mm，4 pcs；	L=5780mm，4 pcs；	L=6280mm，4 pcs；	L=6700mm，2 pcs；
L=5440mm，4 pcs；	L=5945mm，4 pcs；	L=6450mm，4 pcs；	
L=5610mm，4 pcs；	L=6115mm，4 pcs；	L=6620mm，4 pcs；	

Panel direction

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DATE: MAR. 01, 2021

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and Trade Co., Ltd.

JECO DEVELOPMENT CORPORATION
LACSON ST. EXT; MAGSAYSAY AVENUE, BRGY. TACULING, BACOLOD
CITY, NEG.OCC.
TEL. NO. 435-2563; FAX NO. 435-5420

ENGR. JOSE MAR. G. GENCIANA
CIVIL ENGINEER
PRC NO.:
VALIDITY:
PTR NO.:
DATE:
PLACE:
TIN:

PROJECT TITLE:
WAREHOUSE
LOCATION:

APPROVED BY:
JOSEPH T. TAN
PRESIDENT
OWNER

SHT. CONTENTS:
ROOF PE FOAM ARRANGEMENT PLAN
1&5 AXIS WALL PANEL ARRANGEMENT PLAN

DESIGNED BY :
DRAWN BY :
CHECKED BY :
REVISION NO. :
SCALE:
DATE : AUGUST 16, 2019

PROJECT NO. :
SHEET NO. :
S 11.0
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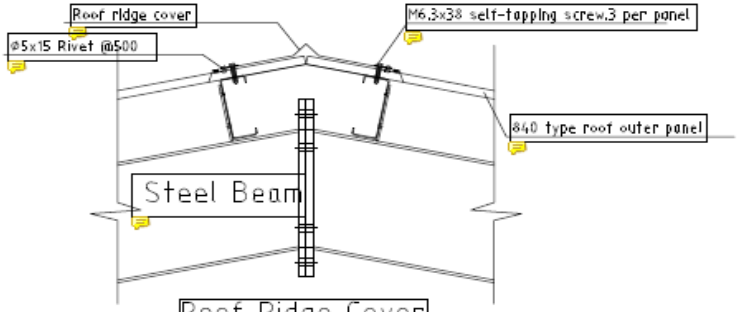
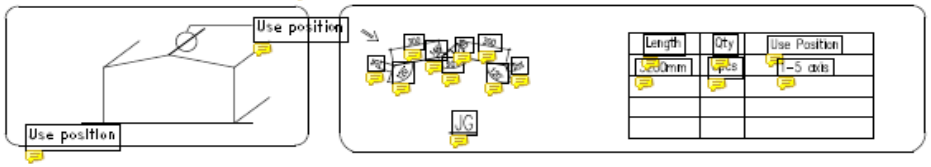
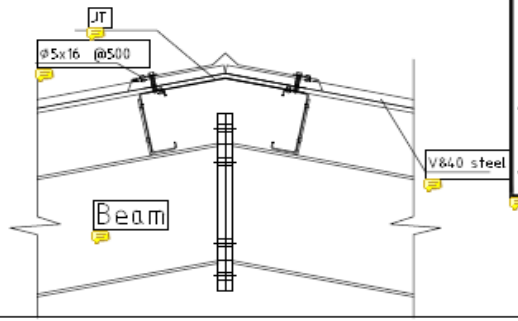
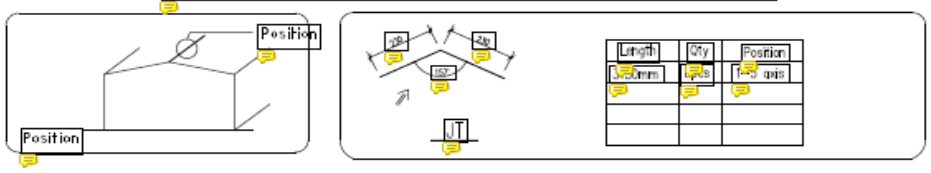


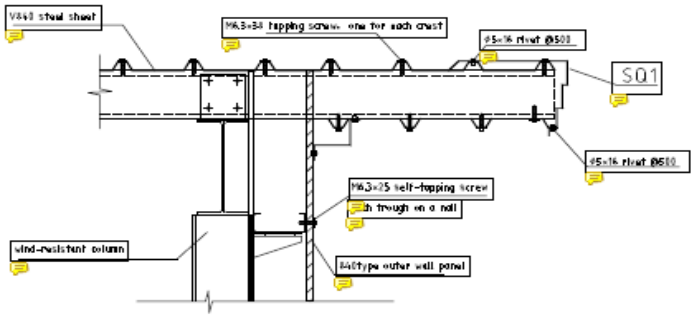
Roof Ridge Cover



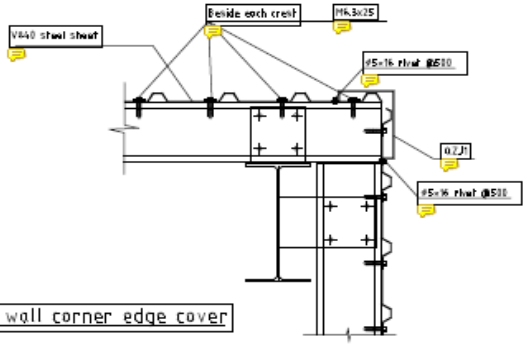


Ridge support plate edge installation joint

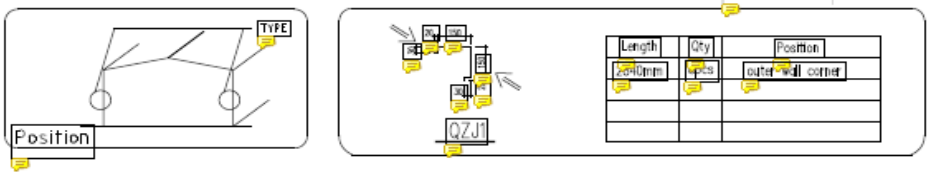




Gable wall edge cover



Outer wall corner edge cover



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JECO DEVELOPMENT CORPORATION
LACSON ST. EXT; MAGKAYSAY AVENUE, BRGY. TACULING, BACOLOD CITY, NEG. OCC.
TEL. NO. 435-1567; FAX NO. 435-5420

ENGR. JOSE MAR. G. GENCIANA
CIVIL ENGINEER
PRC NO.: 0
VALIDITY:
PTR NO.:
DATE:
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TIN:

PROJECT TITLE:
WAREHOUSE
LOCATION:

APPROVED BY:
JOSEPH T. TAN
PRESIDENT
OWNER

SHT. CONTENTS:
ROOF RIDGE COVER
RIDGE SUPPORT PLATE EDGE INSTALLATION JOINT
GABLE WALL EDGE COVER
OUTER WALL CORNER EDGE COVER

DESIGNED BY:
DRAWN BY:
CHECKED BY:
REVISION NO.:
SCALE
DATE: AUGUST 16, 2019

PROJECT NO.:
SHEET NO.: S 13.0
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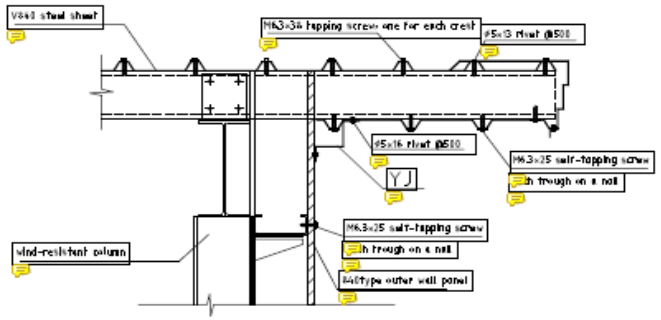
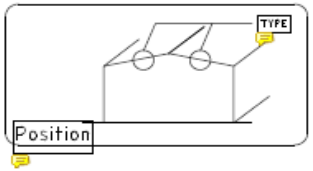
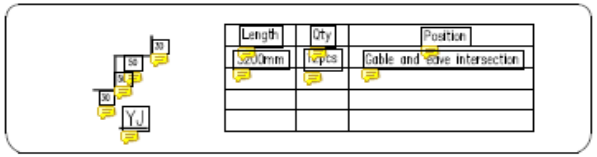
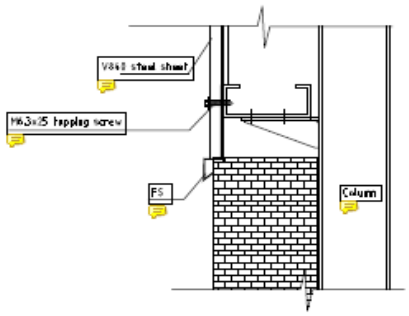


Gable wall edge cover

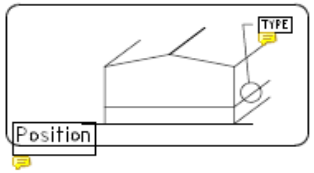




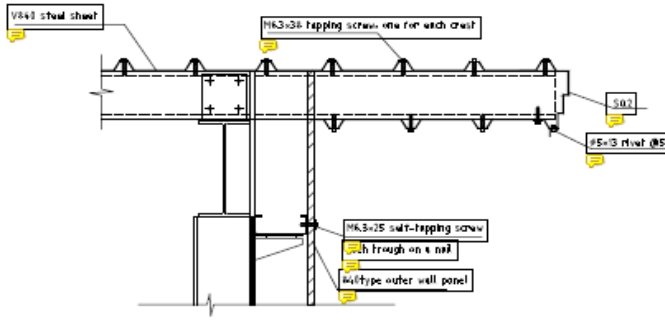
Length	Qty	Position
3200mm	1pcs	Gable end eave intersection



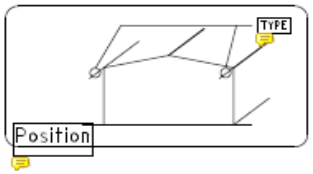
Wall panel bottom closing edge cover

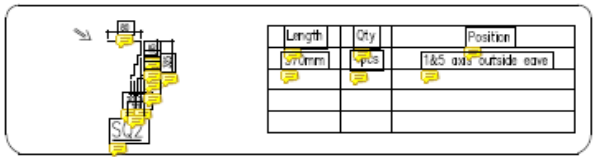


Length	Qty	Position
3020mm	1pcs	A & D axis wall panel
3350mm	3pcs	& 5 axis wall panel

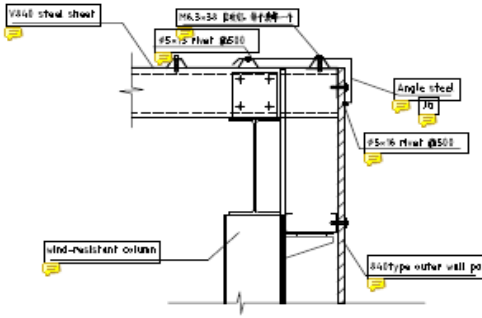


Gable wall edge cover

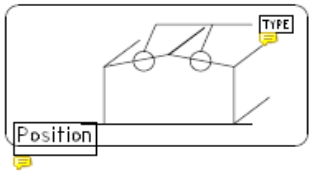


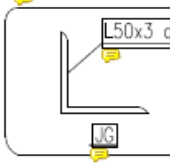


Length	Qty	Position
970mm	1pcs	1&5 axis outside eave



Angle steel





Length	Qty	Position
6000mm	1pcs	1 & 5 gable roof overhang purlin outer edge

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DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL
PUERTO PRINCESA

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BUILDING OFFICIAL — DATE

THIS DRAWING IS ISSUED FOR:

AS-BUILT	ESTIMATE
BIDDING	FABRICATION
■ BUILDING PERMIT	OWNER'S APPROVAL
■ CONSTRUCTION	PRESENTATION

REV: — DATE: MAR. 01, 2021

PREPARED BY THE OFFICE OF:

Qingdao Hai Gang Industry and Trade Co., Ltd.

JECO DEVELOPMENT CORPORATION

JECO DEVELOPMENT CORPORATION
LACSON ST. EXT; MAGKAYSAY AVENUE, BRGY. TACULING, BACOLOD CITY, NEG. OCC.
TEL. NO. 435-2563; FAX NO. 435-5426

ENGR. JOSE MAR. G. GENCIANA
CIVIL ENGINEER
PRC NO. : 0108108 — VALIDITY : 2021
PTR NO. : 1214798 — DATE : 01.02.2021
PLACE : — TIN : 127-857-284

PROJECT TITLE:

WAREHOUSE

LOCATION:

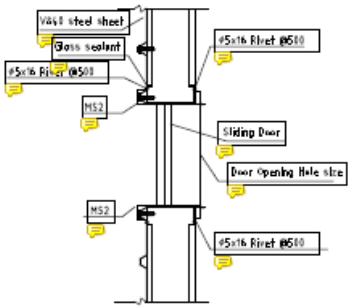
APPROVED BY:

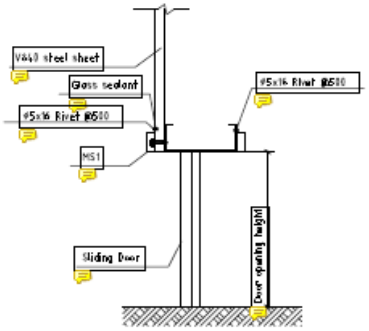
JOSEPH T. TAN
PRESIDENT
OWNER

SHT. CONTENTS:

GABLE WALL EDGE COVER
WALL PANEL BOTTOM CLOSING EDGE COVER
GABLE WALL EDGE COVER ANGLE STEEL

DESIGNED BY :	PROJECT NO. :
DRAWN BY :	SHEET NO. :
CHECKED BY :	S 14.0
REVISION NO. :	
SCALE	
DATE : AUGUST 16, 2019	SSS / REV. : -





REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL
PUERTO PRINCESA

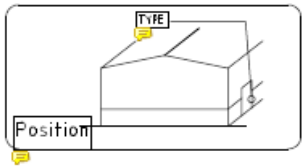
RECOMMENDING APPROVAL:

HEAD ARCHITECTURAL SECTION — DATE

APPROVED:

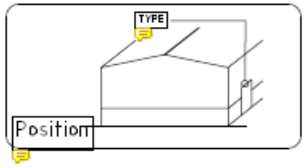
BUILDING OFFICIAL — DATE

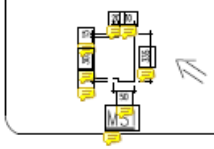
Outer door edge closing node



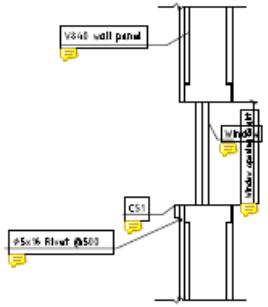
Length	Qty	Position
2400mm	1pcs	Door slides closing edge

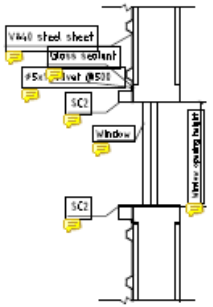
Above door edge closing node





Length	Qty	Position
2400mm	1pcs	Edge above the big door
900mm	1pcs	Edge above the small door





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AS-BUILT	ESTIMATE
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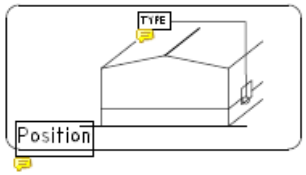
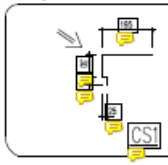
REV: — DATE: MAR. 01, 2021

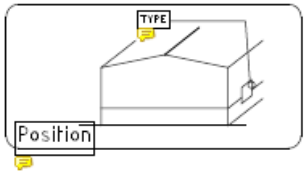
Window bottom edge node

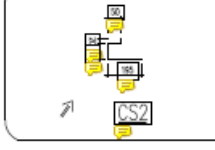




Length	Qty	Position
2400mm	1pcs	Window bottom edge

Window side closing edge





Length	Qty	Position
1600mm	1pcs	Window left and right

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TEL. NO. 435-1567, FAX NO. 435-5426

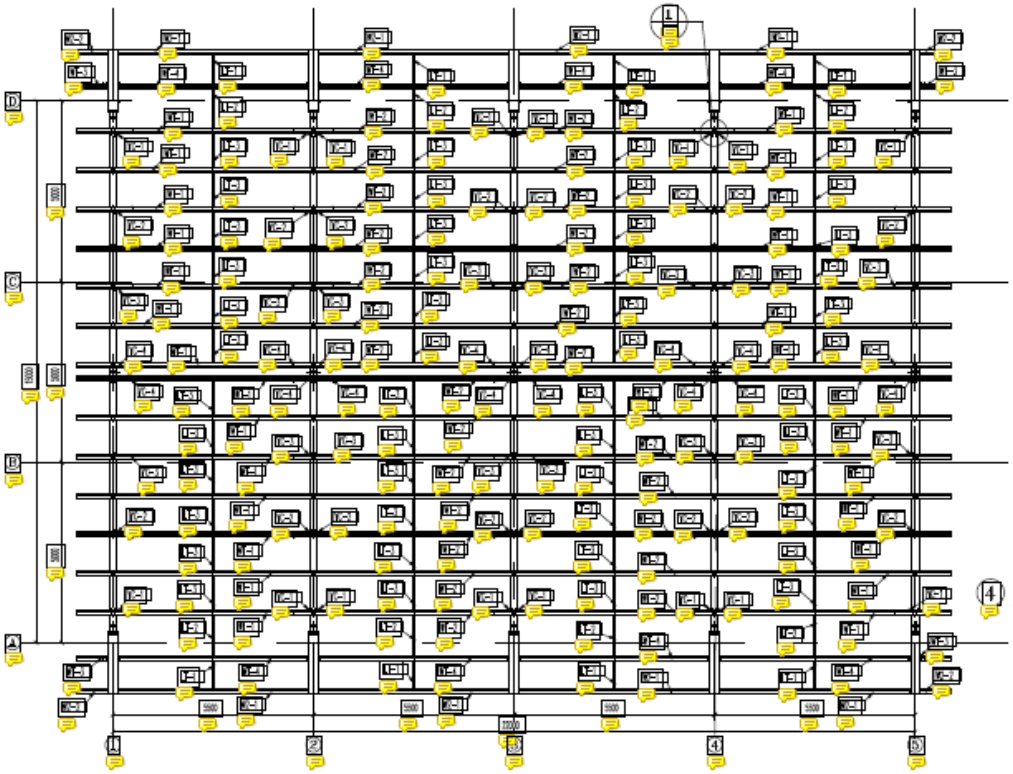
ENGR. JOSE MAR. G. GENCIANA
CIVIL ENGINEER
PRC NO. 0082808 — VALIDITY: 2021
PTR NO. 2774790 — DATE: 02-08-2021
PLACE: — TIN: 417-627-224

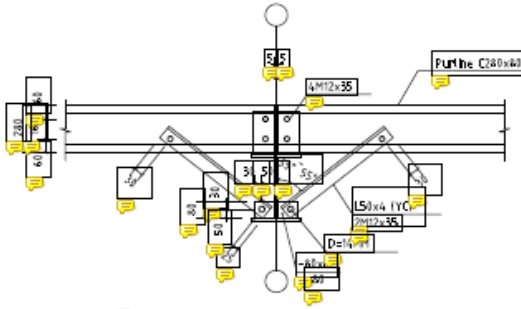
PROJECT TITLE:
WAREHOUSE
LOCATION:

APPROVED BY:
JOSEPH T. TAN
PRESIDENT
OWNER

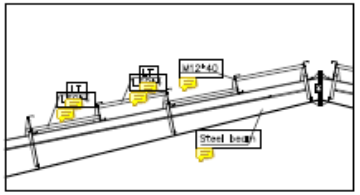
SHT. CONTENTS:
OUTER DOOR EDGE CLOSING NODE
ABOVE DOOR EDGE CLOSING NODE
WINDOW BOTTOM EDGE NODE
WINDOW SIDE CLOSING EDGE

DESIGNED BY :	PROJECT NO. :
DRAWN BY :	SHEET NO. :
CHECKED BY :	S 15.0
REVISION NO. :	
SCALE	
DATE : AUGUST 16, 2019	255 / REV. -

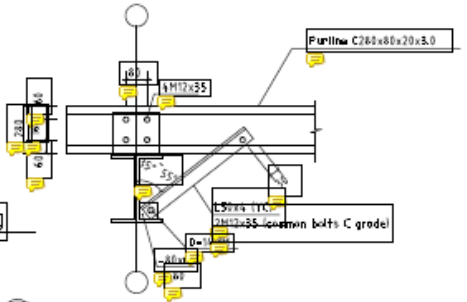




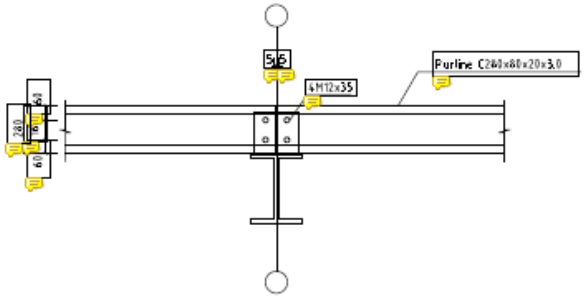
1 Roof Knee- Bracing



4 Roof Brace Installation node drawing



3 Roof Knee- Bracing



2 Roof Purlin

Component list

Type	NO.	Dimension(mm)	Material
Roof purlin	WT-*	C280*80*20*3.0	Q235B
Brace	LT-*	L50*4.0	Q235B
Angle steel	YC-*	L50*4.0	Q235B

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL
PUERTO PRINCESA

RECOMMENDING APPROVAL:

HEAD ARCHITECTURAL SECTION — DATE

APPROVED:

BUILDING OFFICIAL — DATE

THIS DRAWING IS ISSUED FOR:

- [ ] AS-BUILT
- [ ] BIDDING
- [x] BUILDING PERMIT
- [x] CONSTRUCTION
- [ ] ESTIMATE
- [ ] FABRICATION
- [ ] OWNER'S APPROVAL
- [ ] PRESENTATION

REV: — DATE: MAR. 01, 2021

PREPARED BY THE OFFICE OF:

Qingdao Nai Gang Industry and Trade Co., Ltd.

JECO DEVELOPMENT CORPORATION
LACSON ST. EXT, MAGKAYSAY AVENUE, BRGY. TACULING, BACOLOD CITY, NEG.OCC.
TEL. NO. 435-1567, FAX NO. 435-5420

ENGR. JOSE MAR. G. GENCIANA
CIVIL ENGINEER
PRC NO. : 040000 — VALIDITY: 2021
PTR NO. : 0774780 — DATE: 01.04.2021
PLACE: — TIN: 417-260-000

PROJECT TITLE: WAREHOUSE

LOCATION:

APPROVED BY: JOSEPH T. TAN, PRESIDENT, OWNER

SHT. CONTENTS: ROOF KNEE- BRACING; ROOF PURLIN; ROOF BRACE INSTALLATION NODE DRAWING; COMPONENT LIST

DESIGNED BY :	PROJECT NO. :
DRAWN BY :	SHEET NO. :
CHECKED BY :	S 8.0
REVISION NO. :	
SCALE	
DATE : AUGUST 16, 2019	SIS / REV. : -