



Bangkok Port

Redevelopment Project



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Phatthawut Kanokwannakhon

Port Engineer, Bangkok Port, Port Authority of Thailand

Experience

Port Authority of Thailand

- Port Engineer, Bangkok Port (2018-Present)
- General Administration Officer, Bangkok Port (2016-2018)
- Second Engineer, Marine Department (2010-2012)

Royal Thai Navy

- Second Engineer, Mine Squadron (2007-2010)

Course

APEC-Antwerp/Flanders Port Training Center

Port Facilities Security Seminar

Japan International Cooperation Agency (JICA)

Seminar on Port Facility Security for ASEAN

Education

Royal Thai Naval Academy

Bachelor's degree, Marine Engineering · (2003 - 2006)

Armed Forces Academy Preparatory School

High School, Science Math Steam · (2001 - 2002)

Bangkok Port

- Bangkok Port, one of the important ports of the country which plays an important role in the development of an efficient logistics system and connect the country's economic growth.
- Bangkok Port is located in Bangkok. Thailand's capital, the economic center, is surrounded by important industrial and consumer resources.
- The development of Bangkok Port has implemented the Automated Port System in accordance with the government policy by driving with innovation and modern technology.

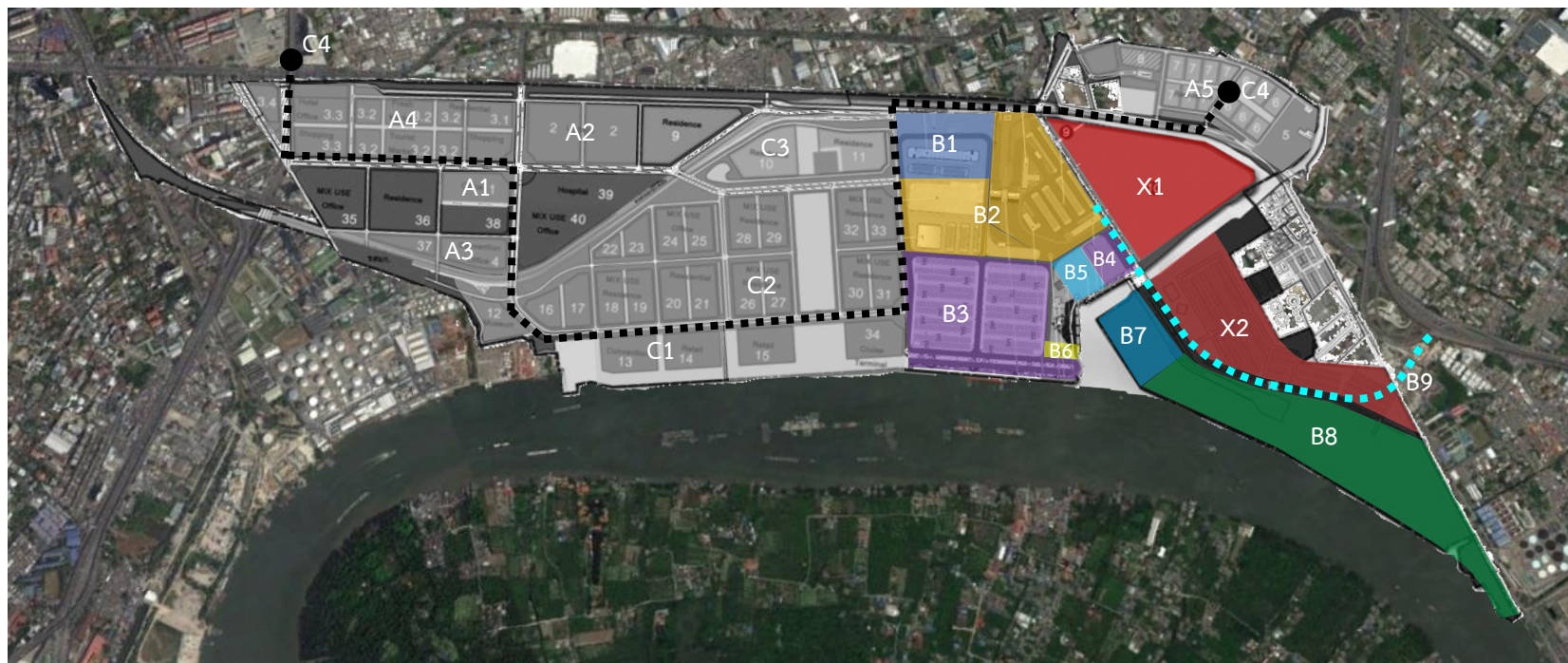


Land Use

- Bangkok Port (Core Business Zone) is also necessary as a ship and cargo service for Bangkok and nearby, the largest consumer source of the country, which reduces the overall cost of transportation.
- Commercial Zone focuses on the development of business areas.
- Bangkok Modern Port City's urban development area focuses on the development of a large-scale business city in the country. The new tourism hub links water tourism



Conceptual Design



กลุ่มการพัฒนาพื้นที่ A

- A1 อาคารศูนย์ธุรกิจพาณิชย์ (Maritime Business Center)
- A2 ศูนย์โลจิสติกส์และกระจายสินค้า
- A3 อาคารสำนักงาน (Office Building)
- A4 ศูนย์การค้าธุรกิจทันสมัยครบวงจร
- A5 ที่อยู่อาศัยทดแทนชุมชนแออัดและสำนักงานเขตคลองเตย/สถานีตำรวจท่าเรือ

กลุ่มการพัฒนาพื้นที่ B

- B1 Exported Container Freight Station
- B2 BKP Distribution Center
 - Vertical W.H. & Free Zone
 - Truck Terminal
 - BKP One Stop Service
 - BKP Head Quarter
 - Empty Container Yard
 - X-Ray Center
 - Main Gate System

- B3 BKP West Container Terminal
- B4 Incident Command Center
- B5 Maintenance Service Center
- B6 Harbor Service
- B7 Barge Transfer
- B8 BKP East Container Terminal
- B9 Express Way Ramp

Area Development Group C

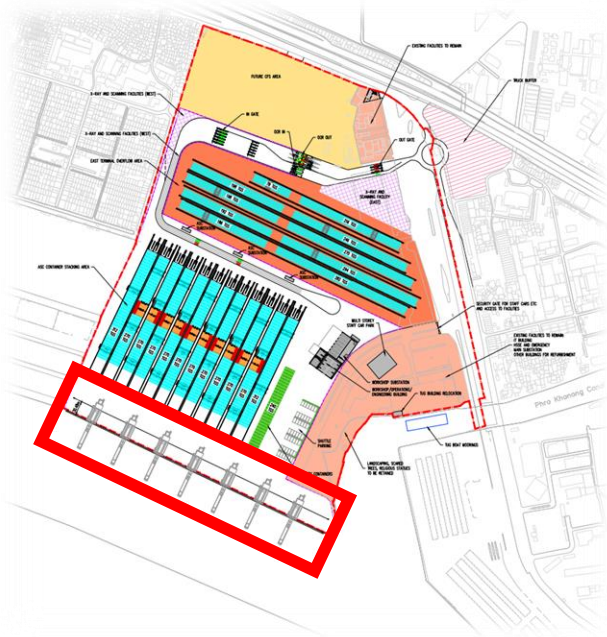
- C1 Passenger Terminal
- C2 Modern Port City Phase 1
- C3 Modern Port City Phase 2
- C4 Monorail

Future development Area X

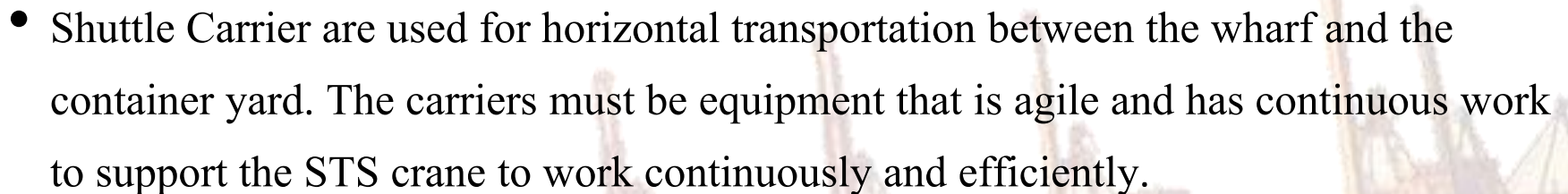
- X1 Reserved Area 1
- X2 Reserved Area 2



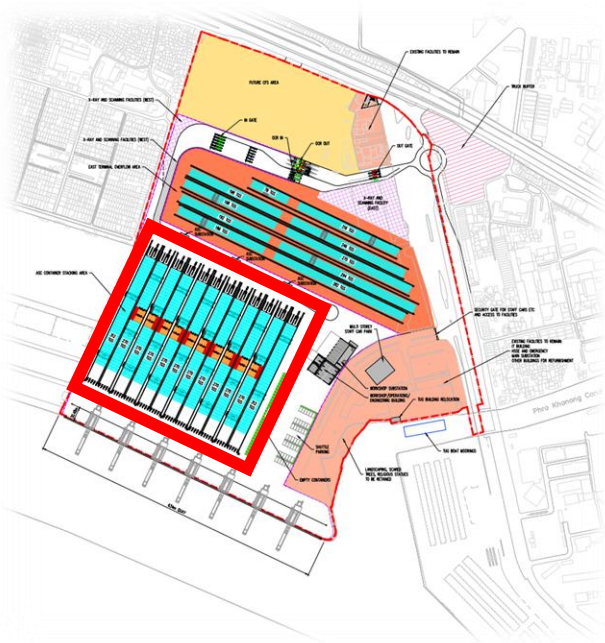
Full Electrical – Ship to Shore Crane



- Ship to Shore (STS) Crane is used to lift the container between the vessel and the shore must be a reliable device due to the use of over 95% of the service life. The STS-100% electric type is used to reduce CO₂ emissions.

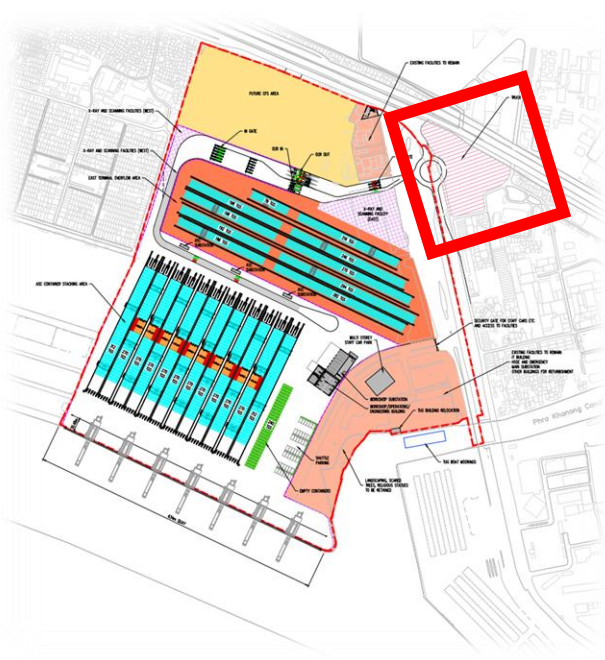


Full Electrical – Automatic Stacking Crane



- Automatic Stacking Crane (ASC) is used for vertical transportation. Which is used for receive/deliver containers between Shuttle Carrier and trucks.
- Using of ASC can reduce CO₂ emission, as well as eliminating the need for electricity for lighting in the container yard due to automated system.

Truck Buffer Zone, VBS & Express Way Ramp



- Due to traffic problems from container trucks that entry to the Bangkok Port, there is a development to connect the Bangkok Port to the expressway directly and including the truck buffer zone. With the development of both physical and Vehicle Booking System (VBS)
- Reduce the traffic problems of personal cars and trucks in CO₂ emissions due to traffic jams. Able to manage truck trips efficiently and shorten the waiting time for receiving containers in the port.