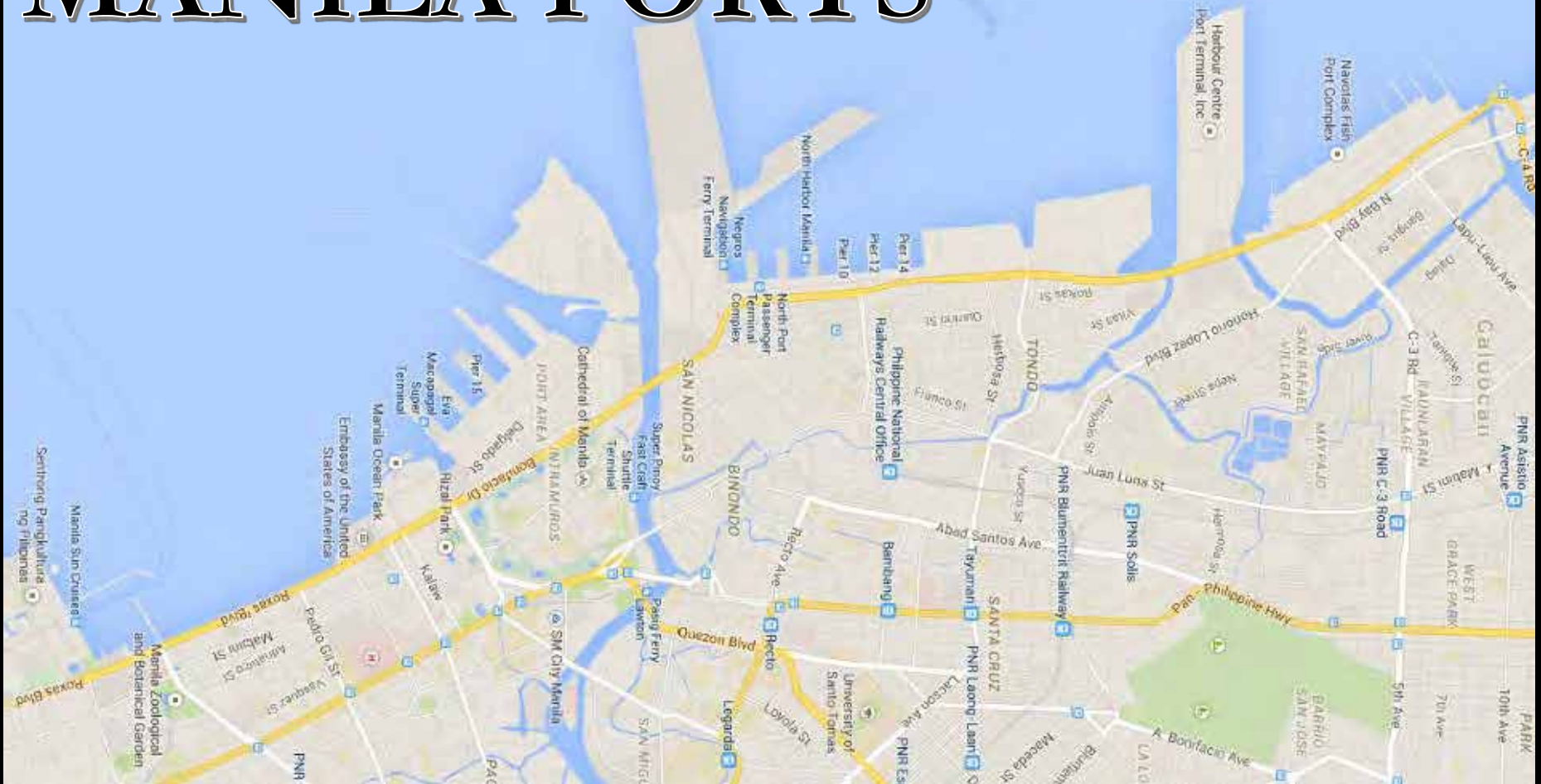




# **8th Philippine Ports and Shipping 2015 DEVELOPING MANILA'S MARITIME TRANSPORT GATEWAY**

Presented By:  
Manila North Harbour Port, Inc.

# MANILA PORTS



# Manila North Harbour Port, Inc.

- **Largest & fastest growing Maritime Gateway**
- **52.5 Hectare Port Facility**
- **5,200 meters of quay**
- **2M TEU yard capacity**
- **4,000 Vessel Calls per year**
- **1M TEU in 2014**
- **1.8M MT of Breakbulk in 2014**
- **1.2M Passengers in 2014**





# CHALLENGES:

- Passenger & Cargo Interaction
- Limited Port Facility
- Low Productivity
- Outdated CHE
- Manual Processing
- Domestic Trade Practice
- Informal Settlers & Illegal Occupants



# PRODUCTIVITY MEASURES

- Berth Productivity
- Yard Productivity
- Truck Turnaround Time
- Processing Time
- Container & Cargo Tracking





# MNHPI's COMMITMENT

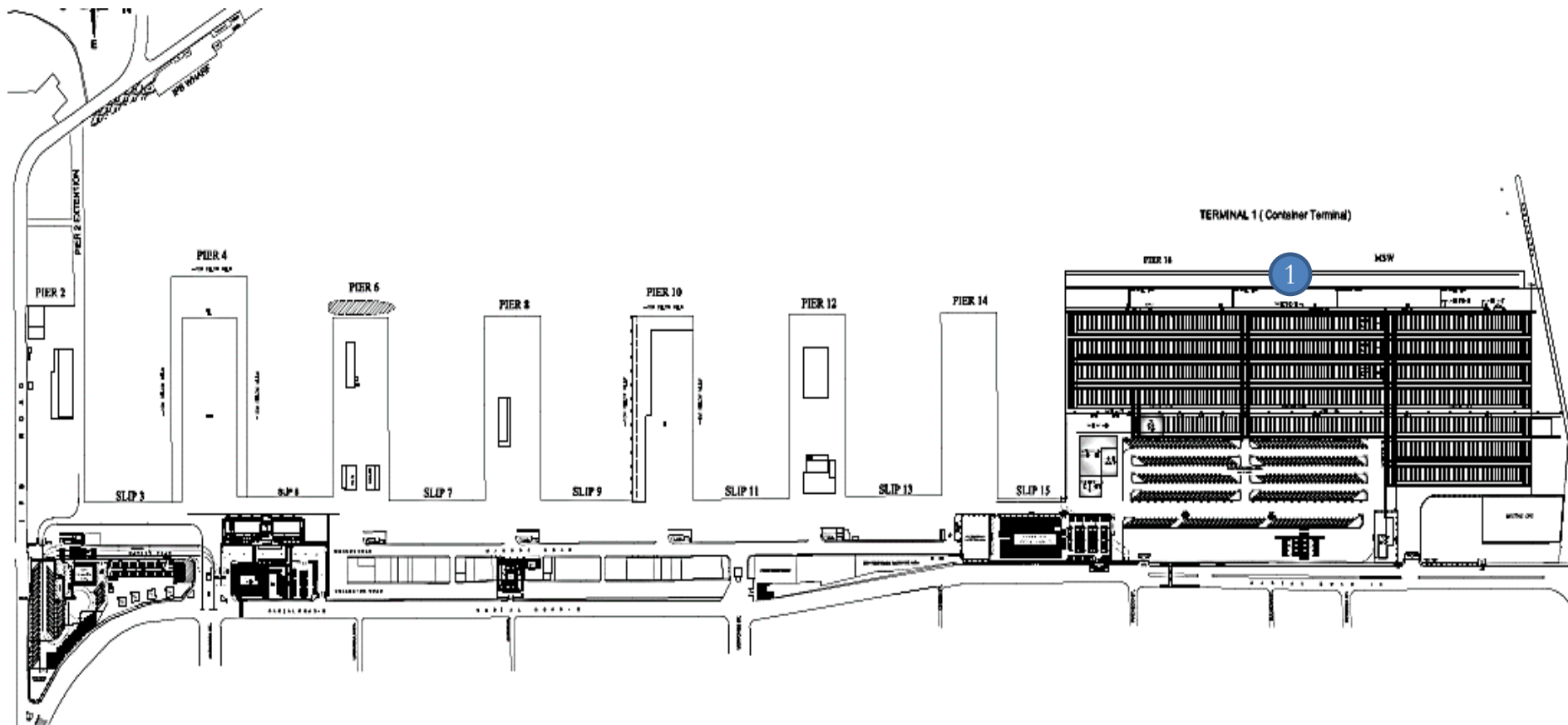
- Modern Port Facility
- Modern Cargo Handling Equipment
- IT Systems
- Best Practice
- Connecting the Port to Highway Networks



# MNHPI Development Projects

## LEGEND:

1. Retrofitting Works and Installation of Crane Rails (MSW/Pier 16)







# CONTINUOUS QUAY LENGTH & SHIP-TO-SHORE CRANES







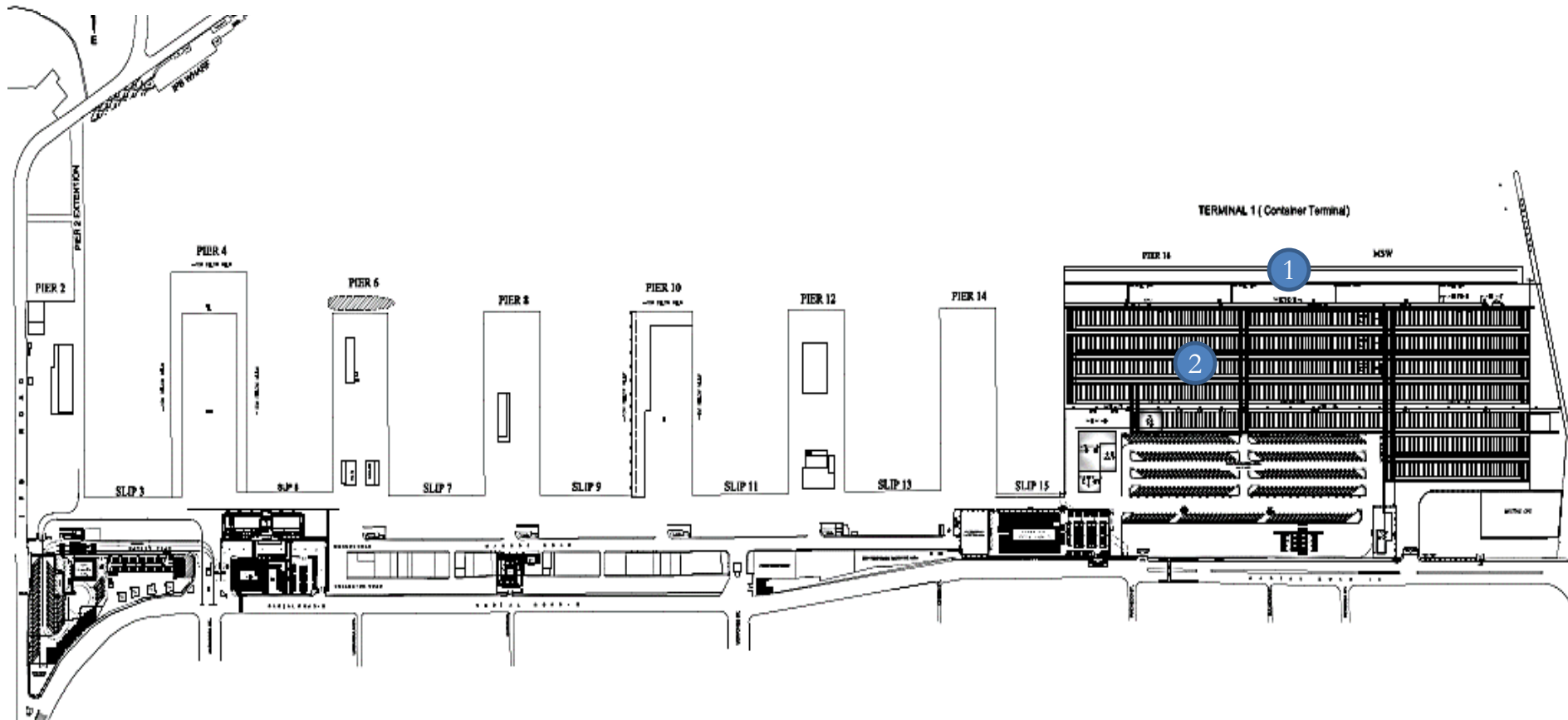
# CONTINUOUS QUAY LENGTH & SHIP-TO-SHORE CRANES



# MNHPI Development Projects

## LEGEND:

1. Retrofitting Works and Installation of Crane Rails (MSW/Pier 16)
2. Container Yard







# CONTAINER YARD







# CONTAINER YARD

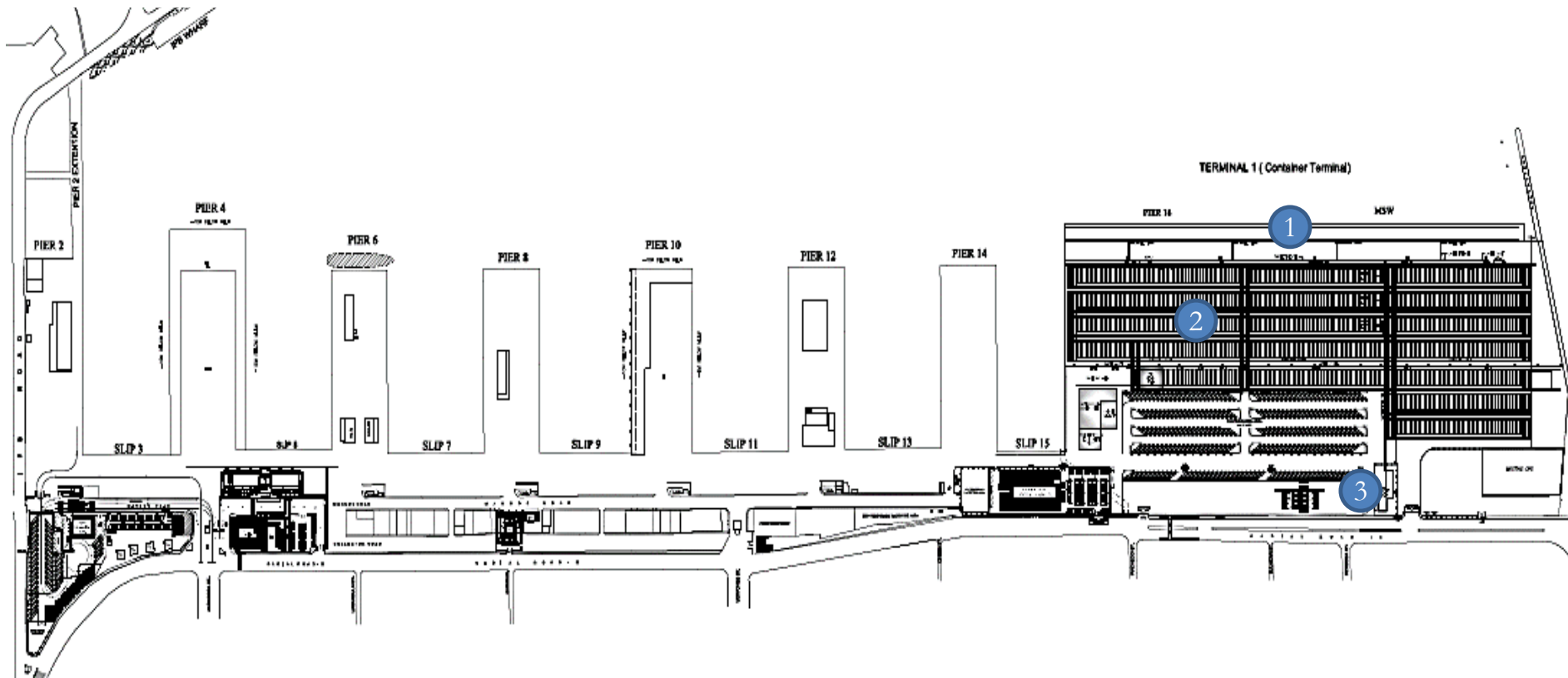




# MNHPI Development Projects

## LEGEND:

1. Retrofitting Works and Installation of Crane Rails (MSW/Pier 16)
2. Container Yard
3. Power Center





*Power house building*



*Generator Sets*



*Transformers*



*Switchgear*

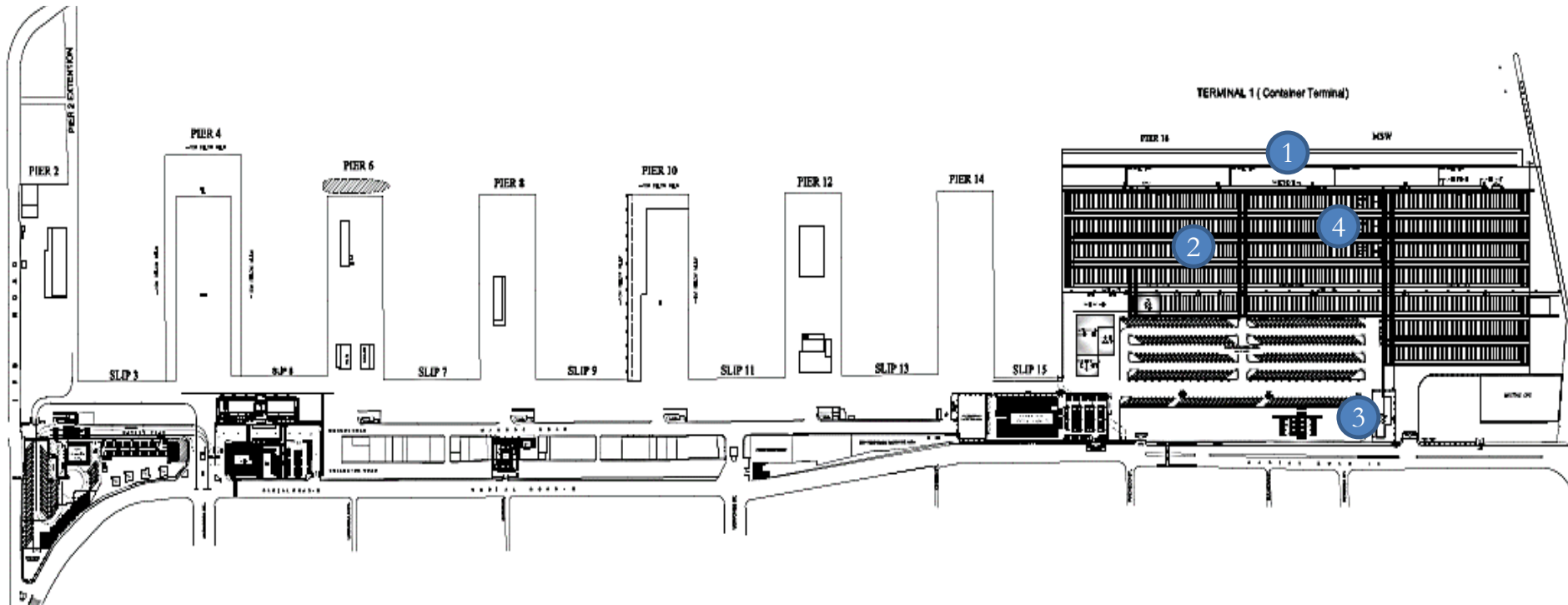




# MNHPI Development Projects

## LEGEND:

1. Retrofitting Works and Installation of Crane Rails (MSW/Pier 16)
2. Container Yard
3. Power Center
4. Reefer Plugs





# REEFER PLUGS

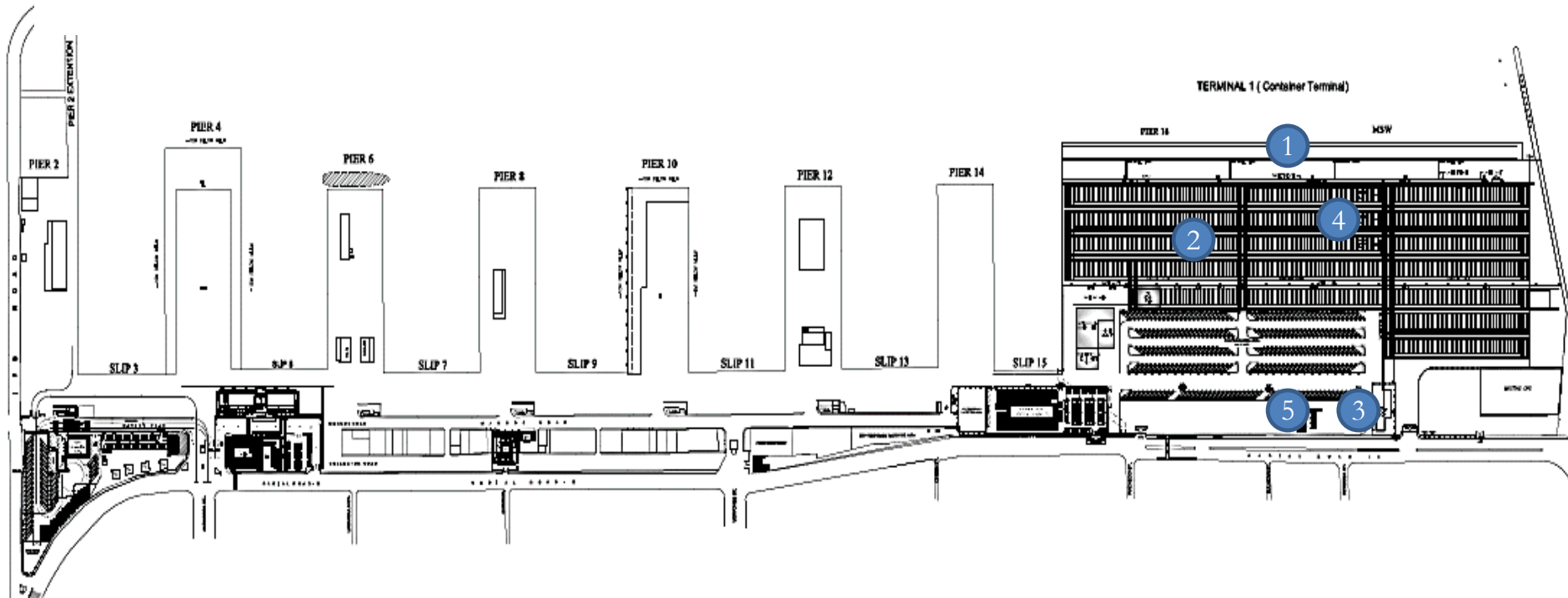




# MNHPI Development Projects

## LEGEND:

1. Retrofitting Works and Installation of Crane Rails (MSW/Pier 16)
2. Container Yard
3. Power Center
4. Reefer Plugs
5. Weighbridges





**WEIGHBRIDGES**

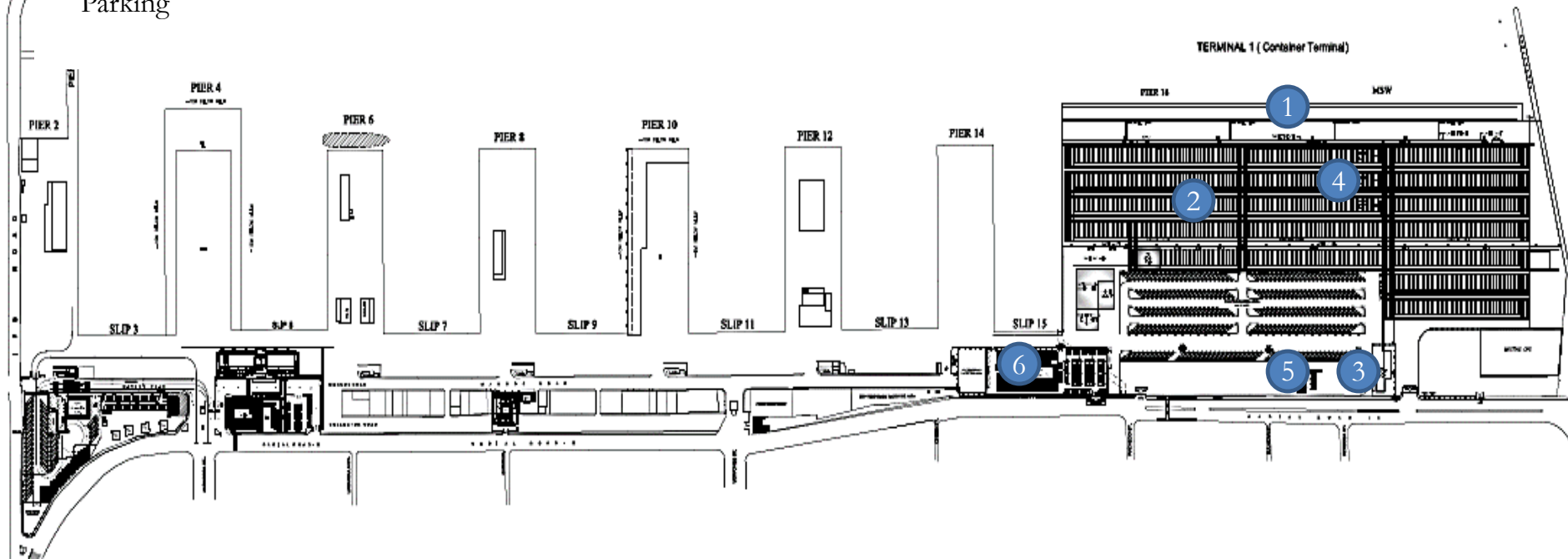




# MNHPI Development Projects

## LEGEND:

1. Retrofitting Works and Installation of Crane Rails (MSW/Pier 16)
2. Container Yard
3. Power Center
4. Reefer Plugs
5. Weighbridges
6. Operations Center & Truck Parking





# ONE STOP PROCESSING CENTER







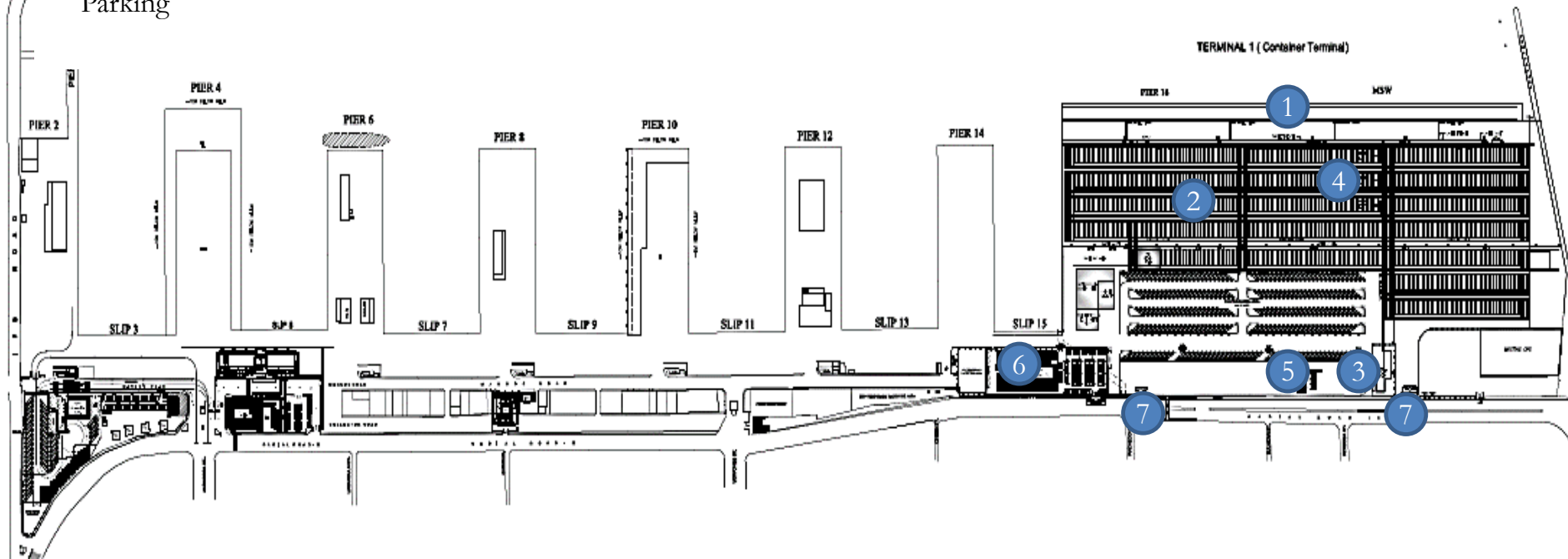
# ONE STOP PROCESSING CENTER



# MNHPI Development Projects

## LEGEND:

1. Retrofitting Works and Installation of Crane Rails (MSW/Pier 16)
2. Container Yard
3. Power Center
4. Reefer Plugs
5. Weighbridges
6. Operations Center & Truck Parking
7. Entry & Exit Gates







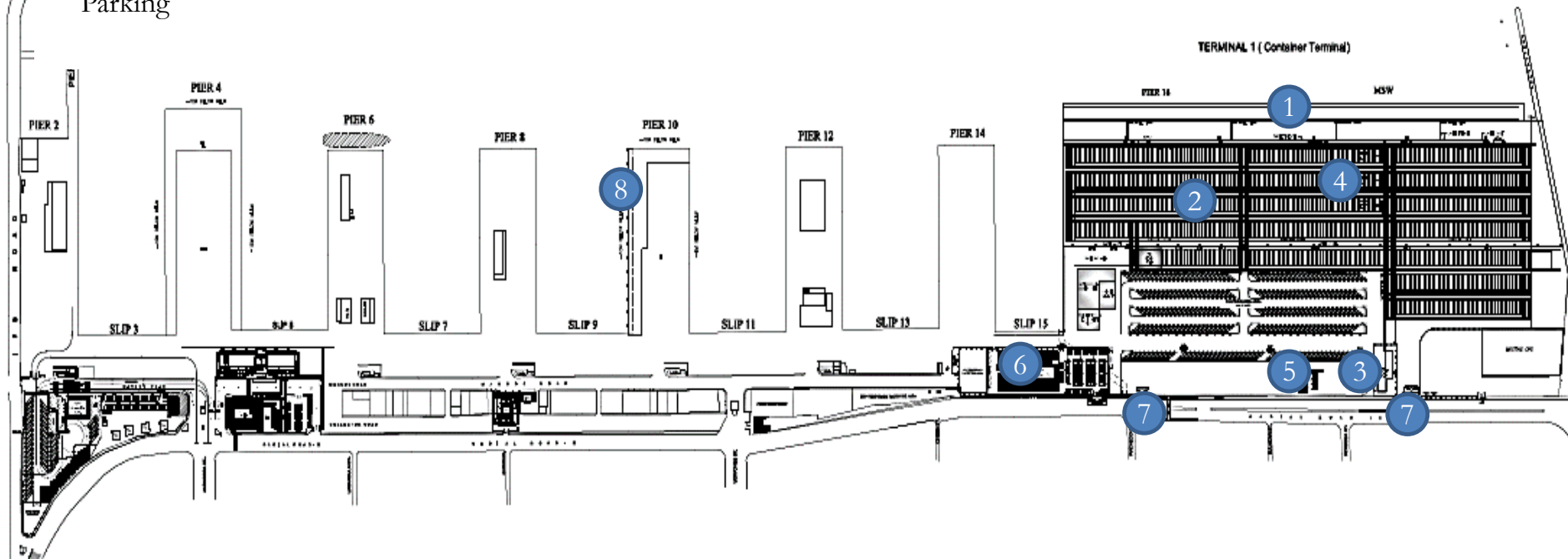




# MNHPI Development Projects

## LEGEND:

- |   |   |
|---|---|
| 1. Retrofitting Works and Installation of Crane Rails (MSW/Pier 16) | 7. Entry & Exit Gates   |
| 2. Container Yard   | 8. Pier 10-South Side Bulkhead and Rehabilitation of Pavement |
| 3. Power Center   |   |
| 4. Reefer Plugs   |   |
| 5. Weighbridges   |   |
| 6. Operations Center & Truck Parking                                |   |





# PIER 10 REHABILITATION

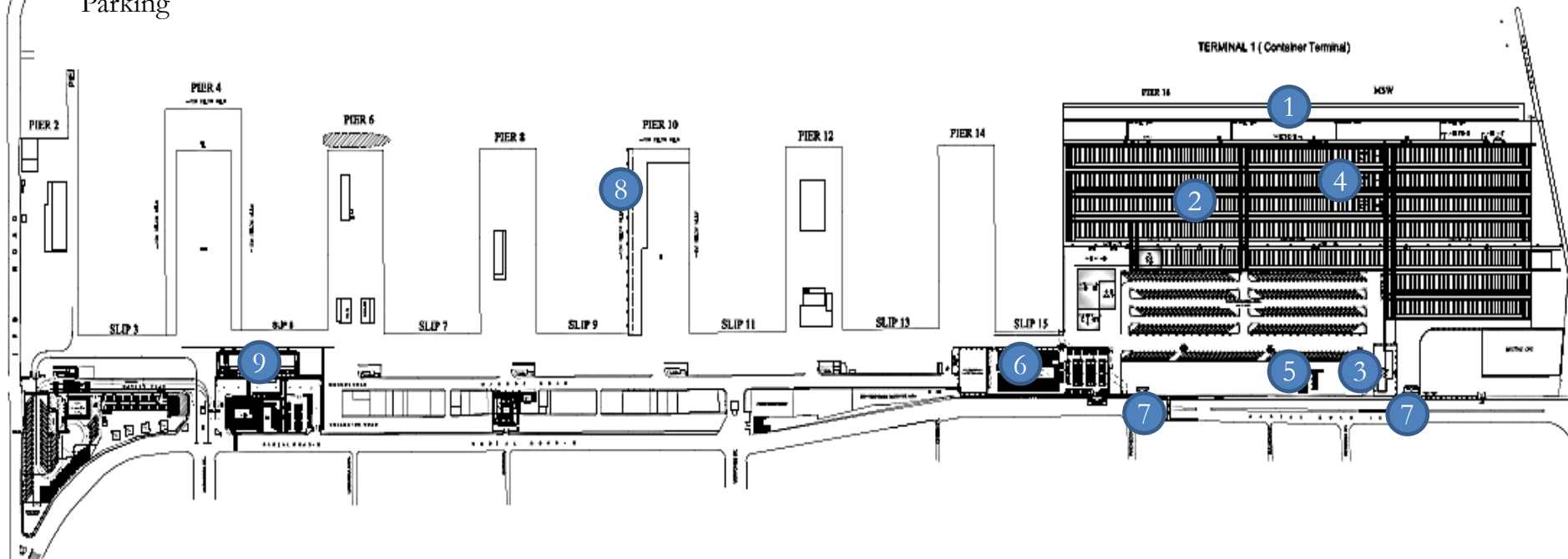


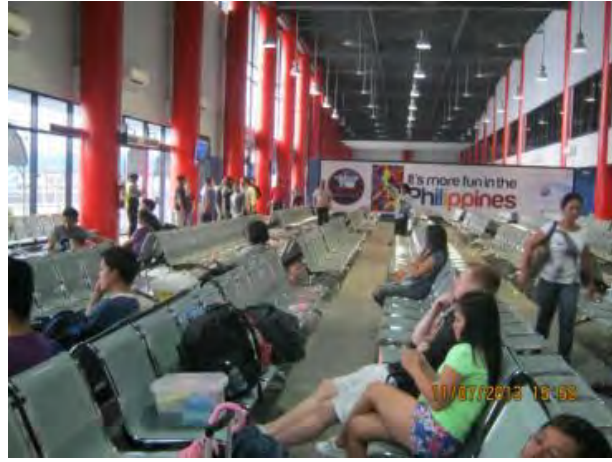


# MNHPI Development Projects

## LEGEND:

- |   |   |
|---|---|
| 1. Retrofitting Works and Installation of Crane Rails (MSW/Pier 16) | 7. Entry & Exit Gates   |
| 2. Container Yard   | 8. Pier 10-South Side Bulkhead and Rehabilitation of Pavement |
| 3. Power Center   | 9. Consolidated Passenger Terminal Complex                    |
| 4. Reefer Plugs   |   |
| 5. Weighbridges   |   |
| 6. Operations Center & Truck Parking                                |   |



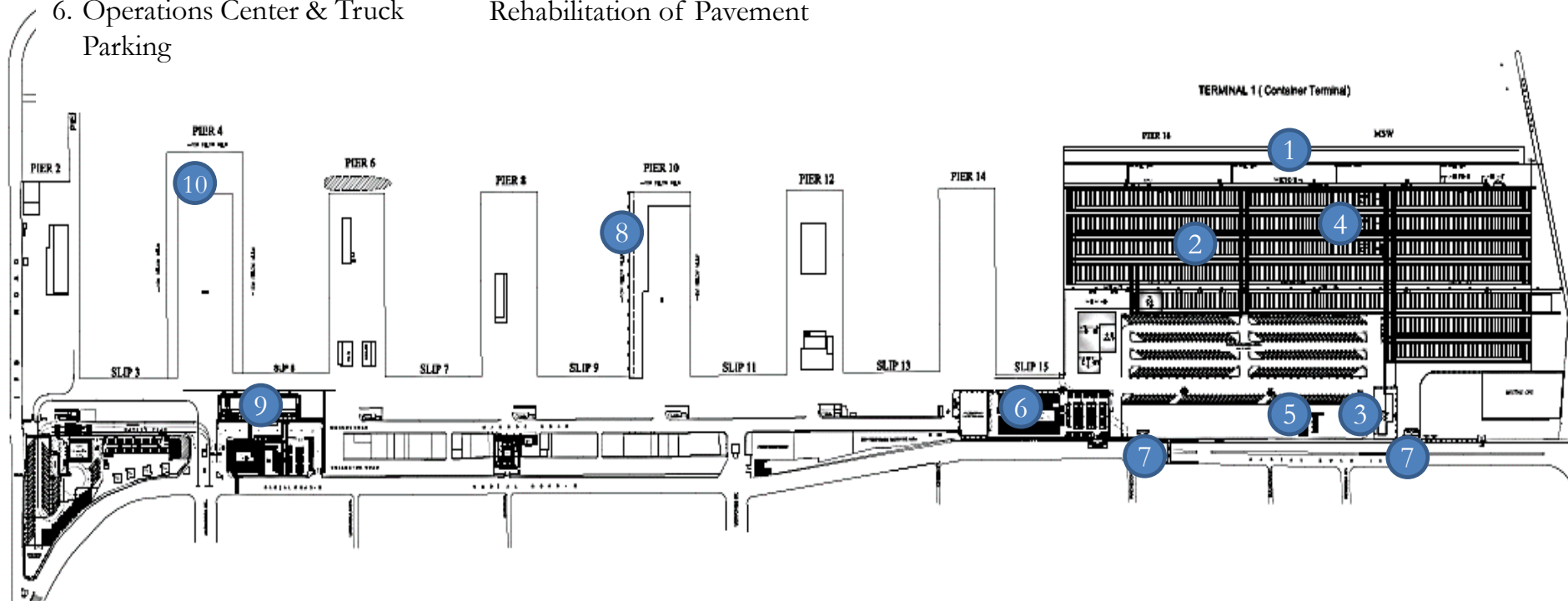




# MNHPI Development Projects

*LEGEND:*

- |   |   |
|---|---|
| 1. Retrofitting Works and Installation of Crane Rails (MSW/Pier 16) | 7. Entry & Exit Gates   |
| 2. Container Yard   | 8. Pier 10-South Side Bulkhead and Rehabilitation of Pavement |
| 3. Power Center   | 9. Consolidated Passenger Terminal Complex                    |
| 4. Reefer Plugs   | 10. Pier 4 Bulkhead and Rehabilitation of Pavement            |
| 5. Weighbridges   |   |
| 6. Operations Center & Truck Parking                                |   |





# PIER 4 REHABILITATION

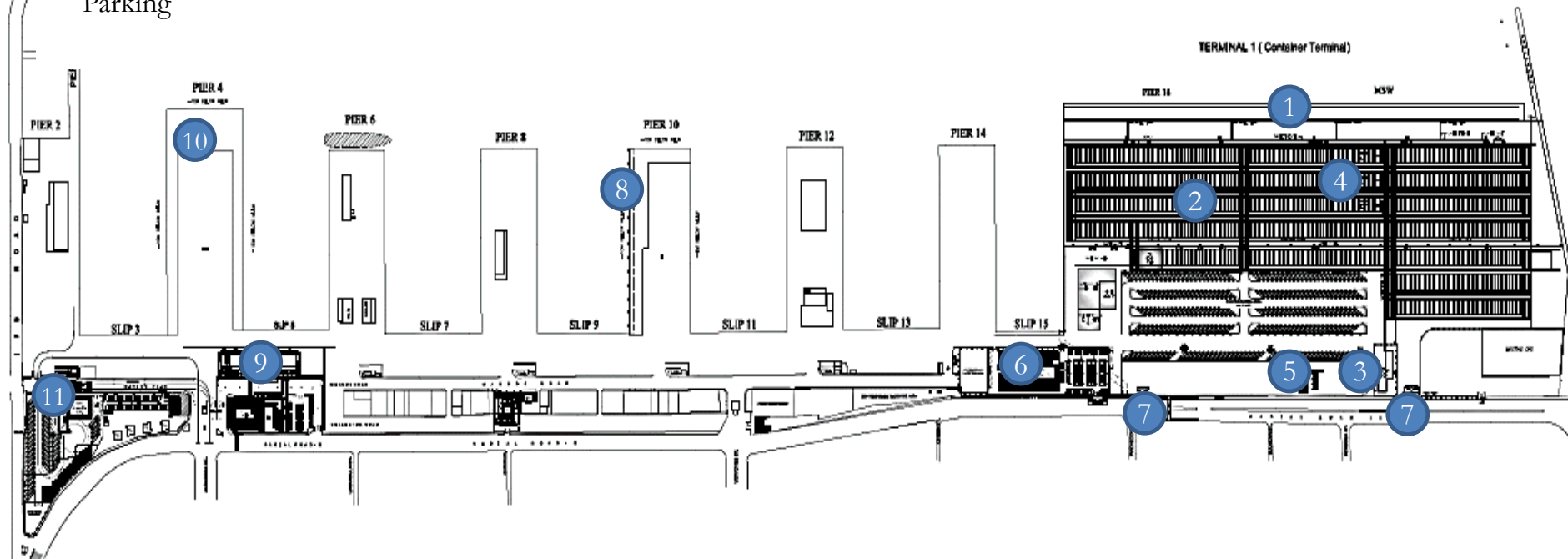




# MNHPI Development Projects

*LEGEND:*

- |   |   |  |
|---|---|--|
| 1. Retrofitting Works and Installation of Crane Rails (MSW/Pier 16) | 7. Entry & Exit Gates   | 11. Ropax Terminal & Triangle Area development |
| 2. Container Yard   | 8. Pier 10-South Side Bulkhead and Rehabilitation of Pavement |  |
| 3. Power Center   | 9. Consolidated Passenger Terminal Complex                    |  |
| 4. Reefer Plugs   | 10. Pier 4 Bulkhead and Rehabilitation of Pavement            |  |
| 5. Weighbridges   |   |  |
| 6. Operations Center & Truck Parking                                |   |  |



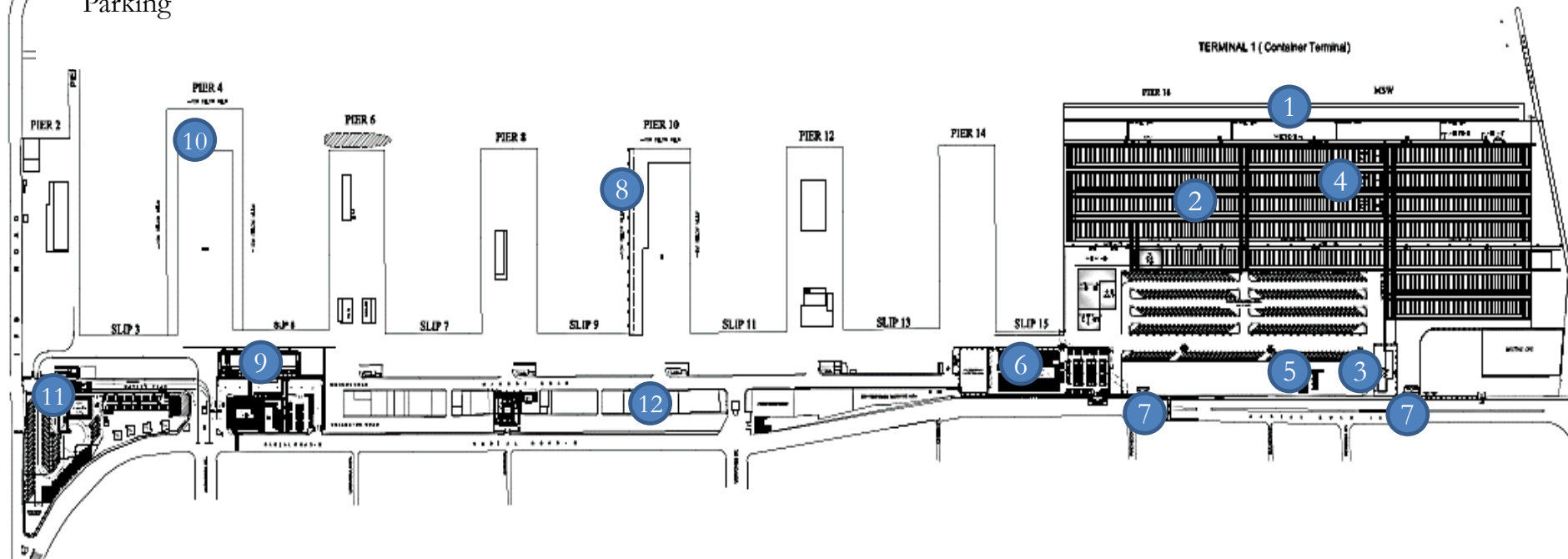




# MNHPI Development Projects

*LEGEND:*

- |   |   |  |
|---|---|--|
| 1. Retrofitting Works and Installation of Crane Rails (MSW/Pier 16) | 7. Entry & Exit Gates   | 11. Ropax Terminal & Triangle Area development |
| 2. Container Yard   | 8. Pier 10-South Side Bulkhead and Rehabilitation of Pavement | 12. New Hiring hall                            |
| 3. Power Center   | 9. Consolidated Passenger Terminal Complex                    |  |
| 4. Reefer Plugs   | 10. Pier 4 Bulkhead and Rehabilitation of Pavement            |  |
| 5. Weighbridges   |   |  |
| 6. Operations Center & Truck Parking                                |   |  |





Perspective of the New Hiring Hall

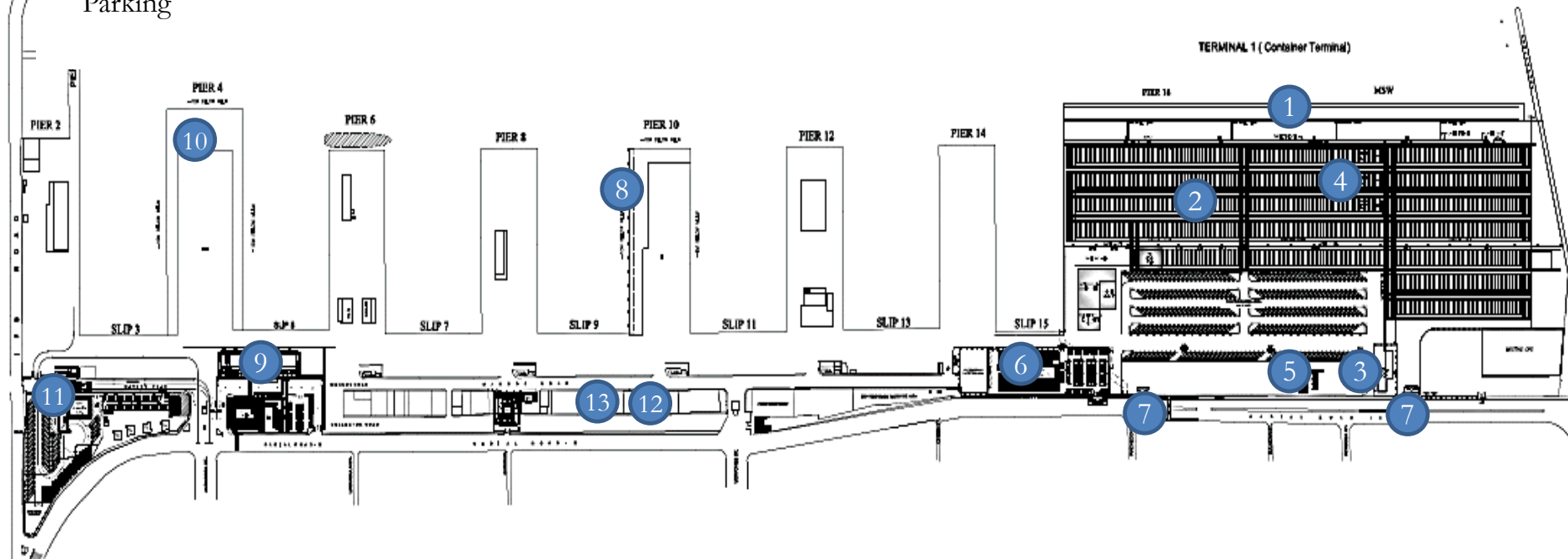




# MNHPI Development Projects

*LEGEND:*

- |   |   |  |
|---|---|--|
| 1. Retrofitting Works and Installation of Crane Rails (MSW/Pier 16) | 7. Entry & Exit Gates   | 11. Ropax Terminal & Triangle Area development |
| 2. Container Yard   | 8. Pier 10-South Side Bulkhead and Rehabilitation of Pavement | 12. New Hiring hall                            |
| 3. Power Center   | 9. Consolidated Passenger Terminal Complex                    | 13. New Bahay Silungan                         |
| 4. Reefer Plugs   | 10. Pier 4 Bulkhead and Rehabilitation of Pavement            |  |
| 5. Weighbridges   |   |  |
| 6. Operations Center & Truck Parking                                |   |  |





Perspective of the New Bahay Silungan

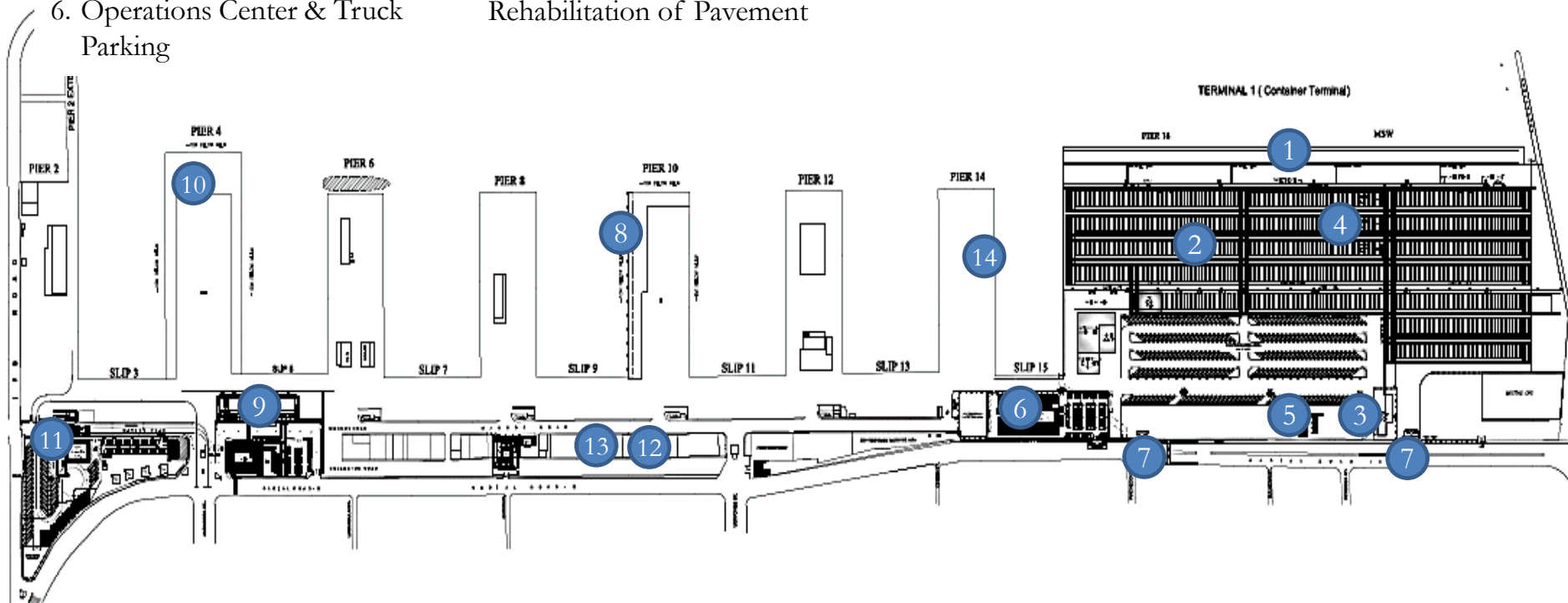




# MNHPI Development Projects

## LEGEND:

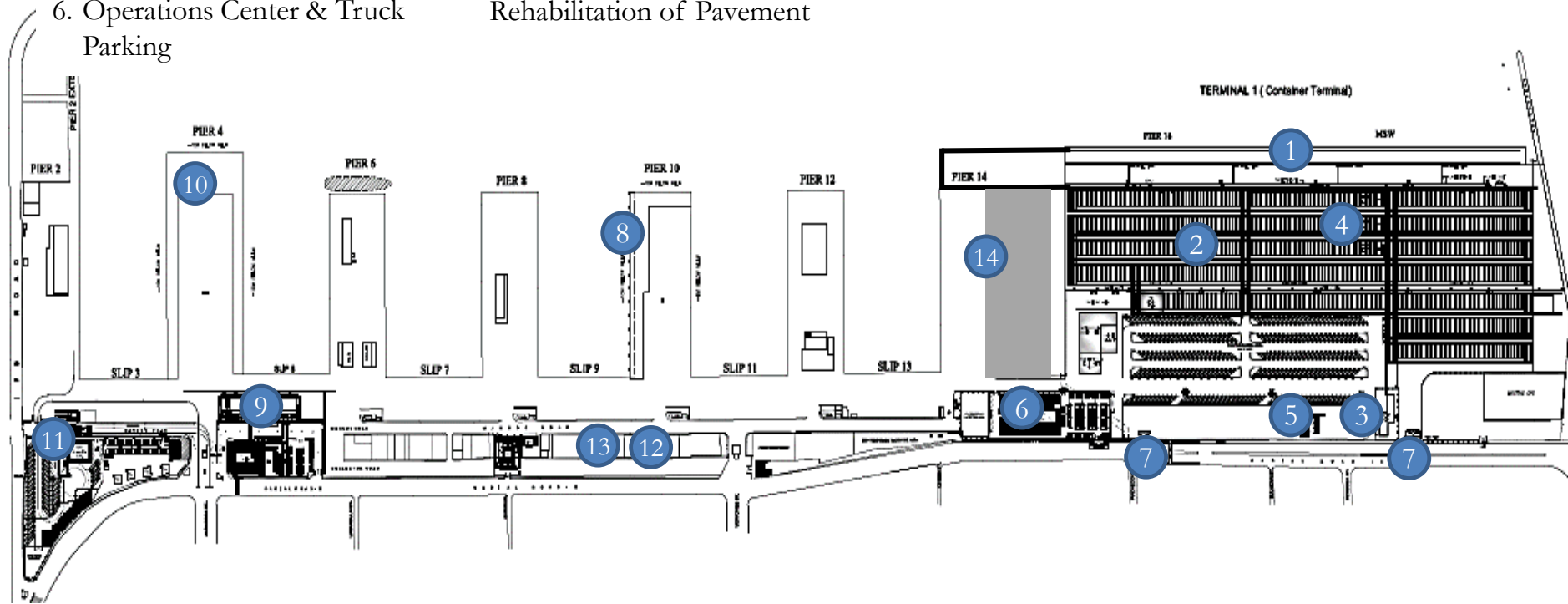
- |   |   |   |
|---|---|---|
| 1. Retrofitting Works and Installation of Crane Rails (MSW/Pier 16) | 7. Entry & Exit Gates   | 11. Ropax Terminal & Triangle Area development      |
| 2. Container Yard   | 8. Pier 10-South Side Bulkhead and Rehabilitation of Pavement | 12. New Hiring hall                                 |
| 3. Power Center   | 9. Consolidated Passenger Terminal Complex                    | 13. New Bahay Silungan                              |
| 4. Reefer Plugs   | 10. Pier 4 Bulkhead and Rehabilitation of Pavement            | 14. Front Wharf Pier 16-14 & Reclamation of Slip 15 |
| 5. Weighbridges   |   |   |
| 6. Operations Center & Truck Parking                                |   |   |



# MNHPI Development Projects

*LEGEND:*

- |   |   |   |
|---|---|---|
| 1. Retrofitting Works and Installation of Crane Rails (MSW/Pier 16) | 7. Entry & Exit Gates   | 11. Ropax Terminal & Triangle Area development      |
| 2. Container Yard   | 8. Pier 10-South Side Bulkhead and Rehabilitation of Pavement | 12. New Hiring hall                                 |
| 3. Power Center   | 9. Consolidated Passenger Terminal Complex                    | 13. New Bahay Silungan                              |
| 4. Reefer Plugs   | 10. Pier 4 Bulkhead and Rehabilitation of Pavement            | 14. Front Wharf Pier 16-14 & Reclamation of Slip 15 |
| 5. Weighbridges   |   |   |
| 6. Operations Center & Truck Parking                                |   |   |







# MODERN TERMINAL EQUIPMENT



- N4 as MNHPI's Terminal Operating Systems (TOS)
- Enhance operational visibility and control
- 1<sup>st</sup> Domestic Terminal to employ N4 as TOS globally
- Beneficial to the shipping industry, shippers, consignees, truck operators & other stake holders





Measure	Berth Staytime	Ship Exchange (IB+OB)	Berth Productivity (moves/hr)
	LOLO - SS	LOLO - SS	LOLO - SS
Range (Min~Max)	38.7 hrs to 94.5 hrs	94 boxes to 450 boxes	1.2 bmph to 10.7 bmph
Average	63.2 hrs	303 boxes	6.4 bmph

Measure	Berth Staytime	Ship Exchange (IB+OB)	Berth Productivity (moves/hr)
	RORO	RORO	RORO
Range (Min~Max)	24.5 hrs to 72.0 hrs	193 boxes to 410 boxes	6.1 bmph to 9.2 bmph
Average	48.9 hrs	289 boxes	7.2 bmph

Measure	Berth Staytime	Ship Exchange (IB+OB)	Berth Productivity (moves/hr)
	LOLO - QC	LOLO - QC	LOLO - QC
Majority	16.5 hrs to 44.1 hrs	181 boxes to 480 boxes	10 bmph to 15 bmph
Others	18 hrs to 24 hrs	750 boxes	35 bmph to 40 bmph





- Similar Advances & Developments on major ports
- Complement the rapid movement of goods

OUTPORT COMPLEMENT







- Batangas
- Iloilo
- Bacolod
- Cebu
- Dumaguete
- Cagayan de Oro
- Davao
- General Santos
- Zamboanga
- Others

# OUTPORT COMPLEMENT



# ROAD INFRASTRUCTURE

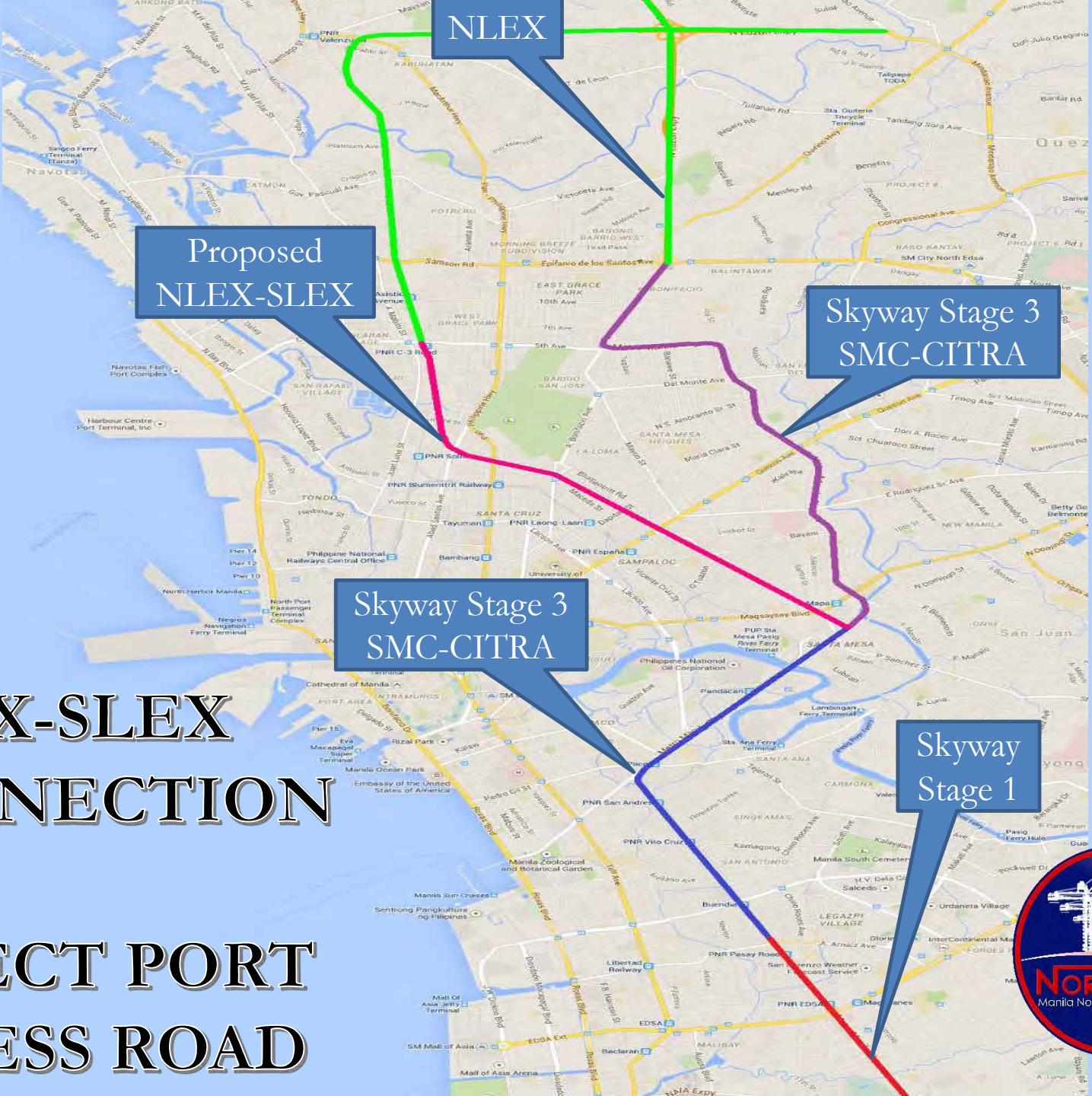
- No direct port access road
- Slow movement of goods
- Contributes to port congestion





- Continuing to work with government – PPA, BOC, DPWH, DTI along with private sectors:
  - Improve processes
  - Enhance infrastructures (Road/Rail)
  - Inland Clearance Depots
  - Expedite connector elevated road connections to the port
  - Employ technology/systems (Truck Management Systems)





NLEX

Proposed  
NLEX-SLEX

Skyway Stage 3  
SMC-CITRA

Skyway Stage 3  
SMC-CITRA

Skyway  
Stage 1

# NLEX-SLEX CONNECTION and DIRECT PORT ACCESS ROAD





# SUMMARY

- Manila will continue to be the maritime transport gateway for the Philippines
- Continue to work with the various government sectors to expedite road infrastructure projects, establishment of inland clearance depots and explore the potential for reviving rail connections to the port and truck management systems
- Encourage government to expedite modernization of outports so as to complement productivity levels of Manila



**NORTH PORT**  
Manila North Harbour Port, Inc.