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Project Management Initials: Designer: Checked: Approved:

DATE: 2017/05/17 - 4:11pm
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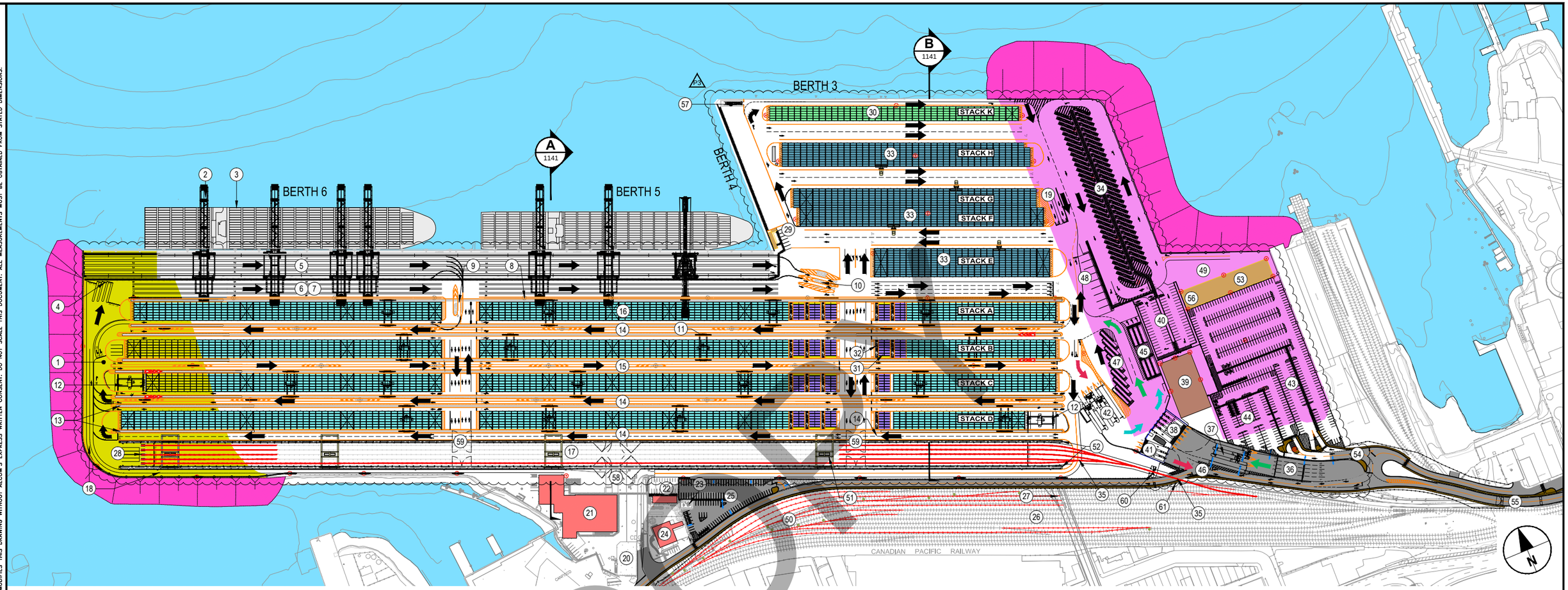

FUTURE EXPANSION SITE PLAN - PROPOSED DESIGN

1:4000

0 50 100 m
Scale 1:4000

KEYNOTES

1. TERMINAL EXPANSION AREA
2. 24.4M GAUGE QUAY CRANES, TYP
3. CONTAINER SHIP, TYP
4. QUAY ACCESS POINT
5. 4 LOAD LANES UNDER QUAY CRANE
6. HATCH COVER LAYDOWN AREA
7. LOAD / CIRCULATION LANE(S)
8. HIGH MAST LIGHT POLE, TYP
9. RPM (SINGLE)
10. RPM (DOUBLE)
11. 26.4M GAUGE RTG (7 WIDE), TYP
12. RTG MAINTENANCE AREA
13. CONCRETE RTG RUNWAYS, TYP
14. LOAD AND BYPASS LANES
15. RETURN LANES
16. GROUNDED RTG STACKS (7 WIDE), TYP
17. INTERMODAL YARD - 5 WORKING TRACKS
18. TERMINAL CIRCULATION LANES
19. RELOCATED FUEL STATIONS
20. WASHDOWN AREA
21. CSSF BUILDING
22. CMS BUILDING
23. ELECTRICAL TRANSFORMER
24. MISSION TO SEAFARERS
25. EMPLOYEE PARKING (CSSF)
26. CNR WATERFRONT YARD
27. HEATLEY AVE. OVERPASS
28. RAIL STOPS (PROPOSED)
29. CBL BUILDING
30. GROUNDED EMPTY STACKS
31. GROUNDED REEFER STACKS
32. REEFER ACCESS TOWER, TYP
33. GROUNDED TOP PICK STACKS
34. ITV PARKING (63 STALLS TOTAL)
35. AT-GRADE RAIL CROSSING
36. TERMINAL ENTRY
37. PRE-IN GATE - 3 LANES (2 STANDARD, 1 EXCEPTION)
38. MAIN IN GATES - 5 LANES (4 STANDARD, 1 EXCEPTION)
39. CONTAINER OPERATIONS FACILITY
40. TERMINAL SERVICE VEHICLE PARKING
41. MAIN OUT GATE - 3 LANES (2 STANDARD, 1 EXCEPTION)
42. PRE-OUT GATE - 4 LANES (3 STANDARD, 1 EXCEPTION)
43. LONG SHORE TERMINAL PARKING (417 STALLS) — P2
44. STAFF PARKING (153 STALLS)
45. TROUBLE PARKING (6 SPOTS)
46. TERMINAL EXIT
47. TRUCK STAGING AREA (9 SPOTS)
48. CHE PARKING
49. EAST TERMINAL FILL AREA
50. PROPOSED RAIL YARD MODIFICATIONS
51. 26.5M GAUGE RMG (SINGLE CANTILEVER), TYP
52. RMG CRANE RAILS IN CONCRETE RUNWAYS WITH STOPS AT EACH END
53. CONTAINER MAINTENANCE WAREHOUSE (CMW)
54. EMPLOYEE PARKING ENTRANCE
55. CENTENNIAL ROAD OVERPASS (PROPOSED)
56. GARBAGE AND RECYCLING AREA (PROPOSED)
57. SPILL TRAILER SHELTER (PROPOSED)
58. MAINTENANCE ACCESS GATES (PROPOSED)
59. RTG PASS THROUGH GATES (PROPOSED)
60. RAIL OCR (PROPOSED)
61. RAIL GATE ACCESS PEDESTAL (PROPOSED)

LEGEND

GROUNDED RTG STACKS
EXISTING 2,240 TGS
EXPANSION (WEST) 512 TGS
EXPANSION (EAST) 672 TGS
TOTAL 3,424 TGS

GROUNDED RTG REEFER STACKS
112 FGS (224 TGS)

GROUNDED TOP PICK STACKS
1356 TGS

GROUNDED EMPTY STACKS
240 TGS

TOTAL TERMINAL 5,272 TGS

GROUNDED EMPTY WALK THROUGH STACKS
14 FGS (28 TGS)

BUILDINGS (EXISTING)
BUILDINGS (NEW)
WEST TERMINAL EXPANSION AREA 3.0 HECTARES±
EAST TERMINAL FILL AREA 1.0 HECTARES±
CONTAINER OPERATIONS FACILITY
ENTRY TRAFFIC FLOW
EXIT TRAFFIC FLOW
TERMINAL TRAFFIC FLOW
TROUBLE PARKING FLOW
PROPOSED RAIL 5 TANGENT TRACKS @ 945M (3,100 LF) 4,725M (15,500 LF) TOTAL
PROPOSED RAIL (CN RAILYARD)

EXISTING HIGH MAST LIGHT POLE
NEW OR RELOCATED HIGH MAST LIGHT POLE AND / OR OTHER NEW SITE LIGHTING

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No.	Date	REVISION	Dr'n	Ch'd
P3	2017-05-17	REVISED FOR RFP	JR	NS
P2	2017-04-28	ISSUED FOR RFP	JR	NS
P1	2017-04-04	FIRST ISSUE	JR	NS

PRELIMINARY
2017-05-17
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Klohn Crippen Berger
PBX ENGINEERING

LEAD CONSULTANT
AECOM

DP WORLD Vancouver

PORT of vancouver

DESIGN BY	NS
DRAWN BY	JR
APPROVED	NS
DATE	2017-04-28
SCALE	AS NOTED
PMV SITE	32-481

CENTERM EXPANSION PROJECT
REFERENCE CONCEPT DESIGN
TERMINAL SITE PLAN
PROPOSED LAYOUT

SIZE B | DWG. 32-481-1101 | SHEET 1 of 1 | REV. P3

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No.	Date	REVISION	Dr'n	Ch'd

DRAFT

2017-06-23

FOR INFORMATION ONLY

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PBX ENGINEERING

LEAD CONSULTANT
AECOM

DP WORLD Vancouver

PORT of vancouver

DESIGN BY	AY
DRAWN BY	AY
APPROVED	CM
DATE	2017-06-23
SCALE	1:800
PMV SITE	32-481

SOUTH SHORE ACCESS PROJECT
REFERENCE CONCEPT DESIGN
CANFISCO PARKING ARRANGEMENT

SIZE	DWG.	SHEET	REV.
B	2017-06-23-SSAP-SK-ACL-001	1 of 1	

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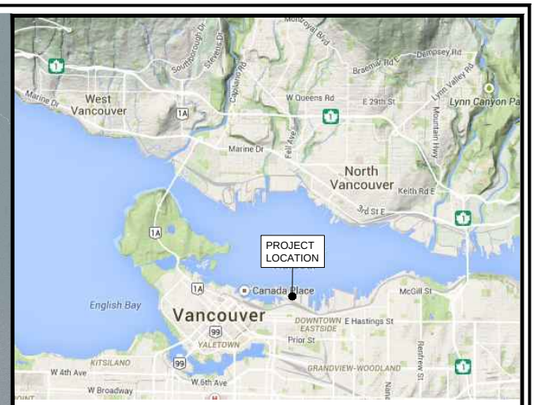

LEGEND

- CENTERM CONTAINER TERMINAL
- WATERFRONT ROAD AREA
- CENTENNIAL ROAD AREA
- RAIL YARD AREA
- NAVIGATIONAL DREDGE AREA

No.	Date	REVISION	Dr'n	Ch'd
P6	2016/10/17	Issued For PER Application	FS	NS
P5	2016/04/08	Issued For PER Application	FS	CM

DATE: 2016/11/07 - 11:33am
PATH: P:\60476305\900-Work\910-CAD\25-SKETCHES\PER Application Drawings\\PER-32-481-101.dwg

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PBX ENGINEERING

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AECOM

DP WORLD Vancouver

PORT of vancouver

DESIGN BY	FS
DRAWN BY	FS
APPROVED	NS
DATE	2016-04-08
SCALE	AS NOTED
PMV SITE	32-481

CENTERM EXPANSION PROJECT
PROJECT OVERVIEW
LOCATION PLAN

SIZE	DWG.	SHEET	REV.
D	32-481-101	1 of 1	P6

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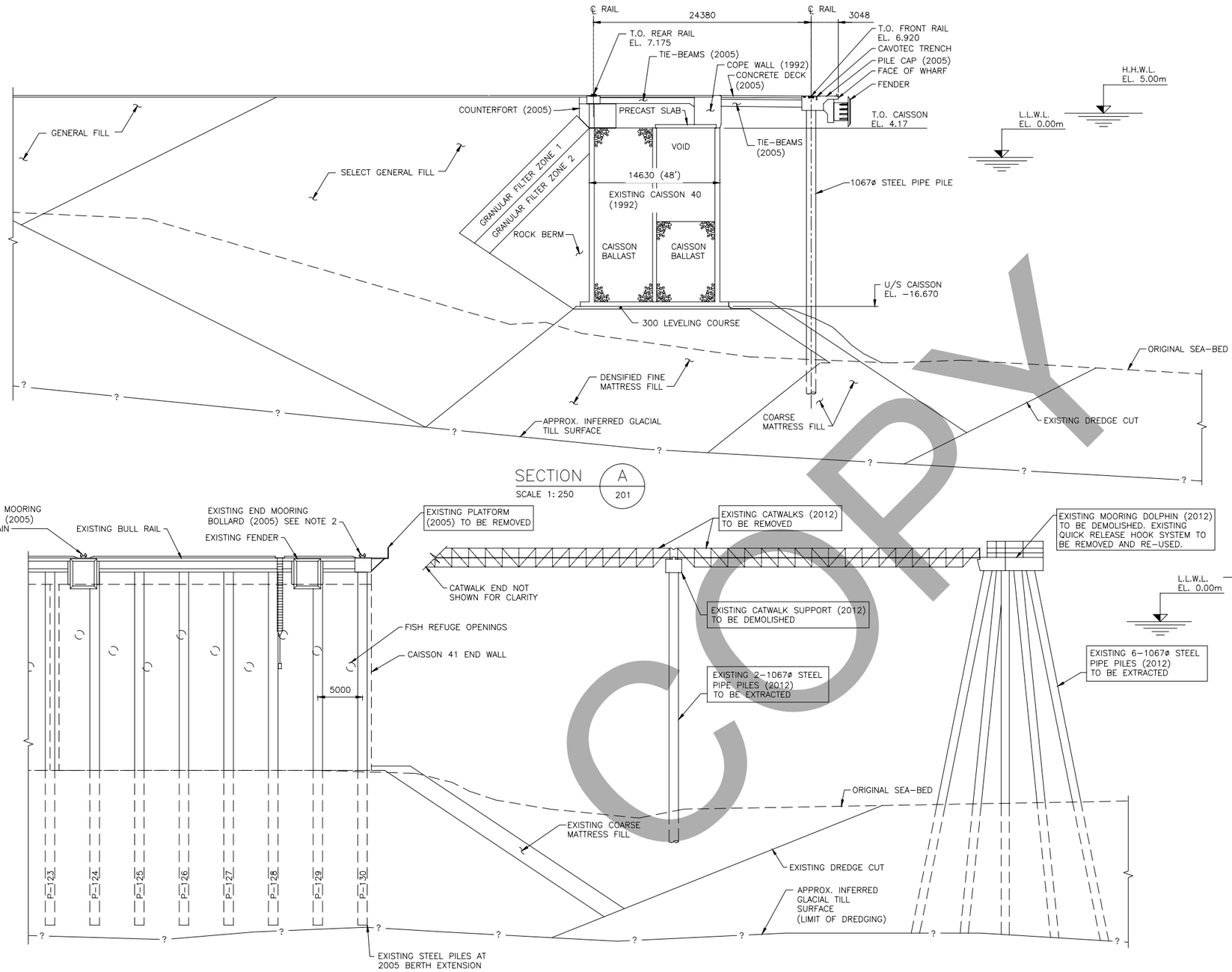

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REFERENCE DRAWINGS:

1. CWMM CENTERM – EXTENSION TO WEST AS–BUILT DRAWINGS, NOV. 20, 1992.
2. SANDWELL CENTERM REDEVELOPMENT PROJECT PHASE 2 PART N: BERTH EXTENSION RECORD DRAWINGS, MAY 18, 2007.
3. AUSENCO BERTH 6 WEST MOORING DOLPHIN RECORD DRAWINGS, JUNE 27, 2013.

NOTES:

1. ELEVATIONS ARE REDUCED TO CHS CHART DATUM WHICH IS 2.975m BELOW GEODETIC DATUM.
2. STRUCTURAL RETROFIT WOULD BE REQUIRED IF THIS BOLLARD REMAINS IN PLACE BECAUSE OF CAVOTEC TRENCH EXTENSION.

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No.	Date	REVISION	Dr'n	Ch'd
P5	2016/09/14	ISSUED FOR PER APPLICATION	K.V.	G.C.

Klohn Crippen Berger
PBX ENGINEERING

LEAD CONSULTANT
AECOM

DP WORLD Vancouver

PORT of vancouver

DESIGN BY	G.B.A.C./K.G.
DRAWN BY	A.R.
APPROVED	G.B.A.C.
DATE	2014–12–12
SCALE	AS NOTED
PMV SITE	32–481

CENTERM EXPANSION PROJECT
WESTERN EXPANSION
EXISTING WHARF AND TERMINAL
DEMOLITION SECTIONS

SIZE	DWG.	SHEET	REV.
D	32–481–202	1 of 1	P5

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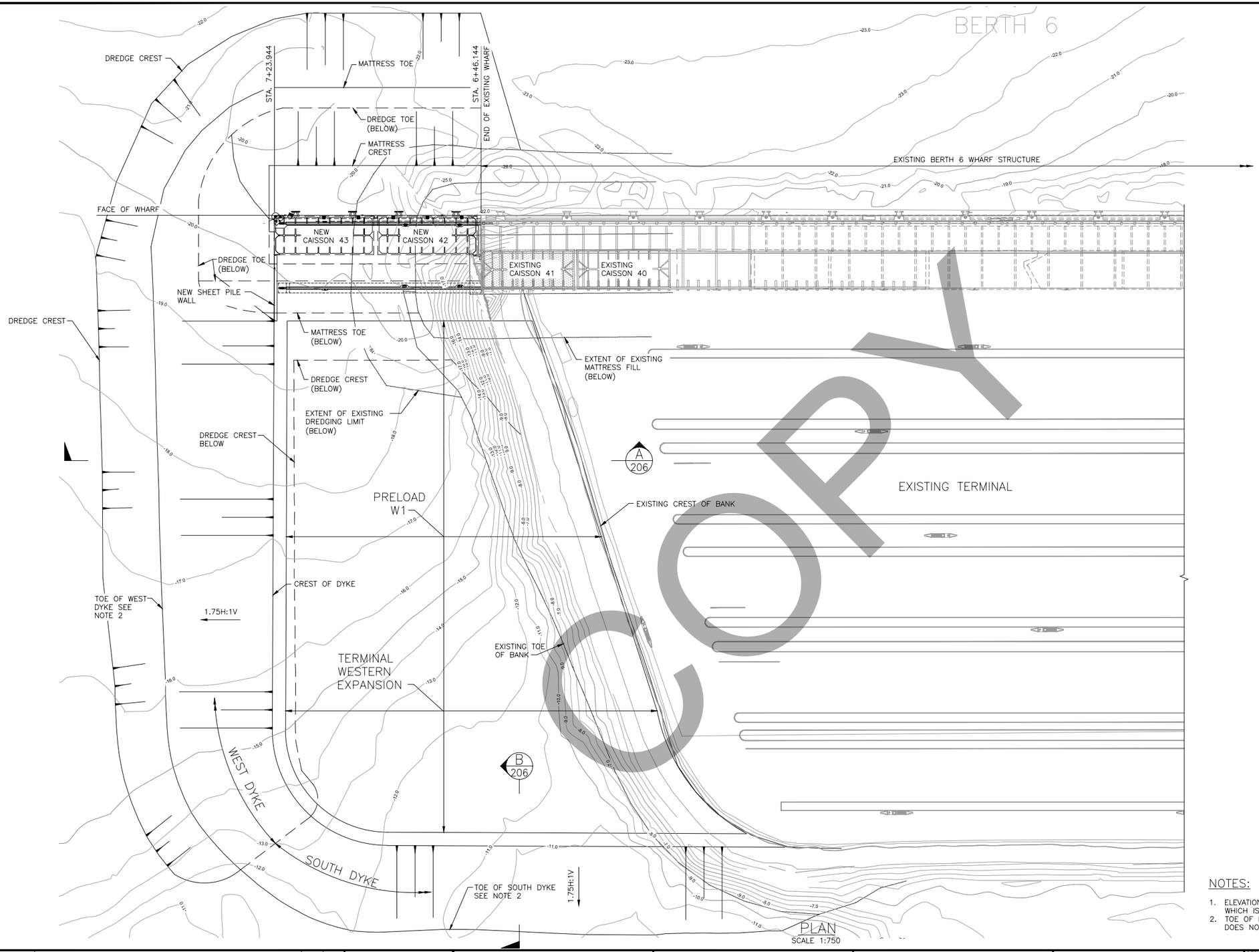

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PBX ENGINEERING

LEAD CONSULTANT
AECOM

DP WORLD Vancouver

PORT of vancouver

DESIGN BY	G.B.A.C./K.G.
DRAWN BY	A.R.
APPROVED	G.B.A.C.
DATE	2014-12-12
SCALE	AS NOTED
PMV SITE	32-481

CENTERM EXPANSION PROJECT
WESTERN EXPANSION
TERMINAL – PLAN

SIZE	DWG.	SHEET	REV.
D	32-481-203	1 of 1	P5

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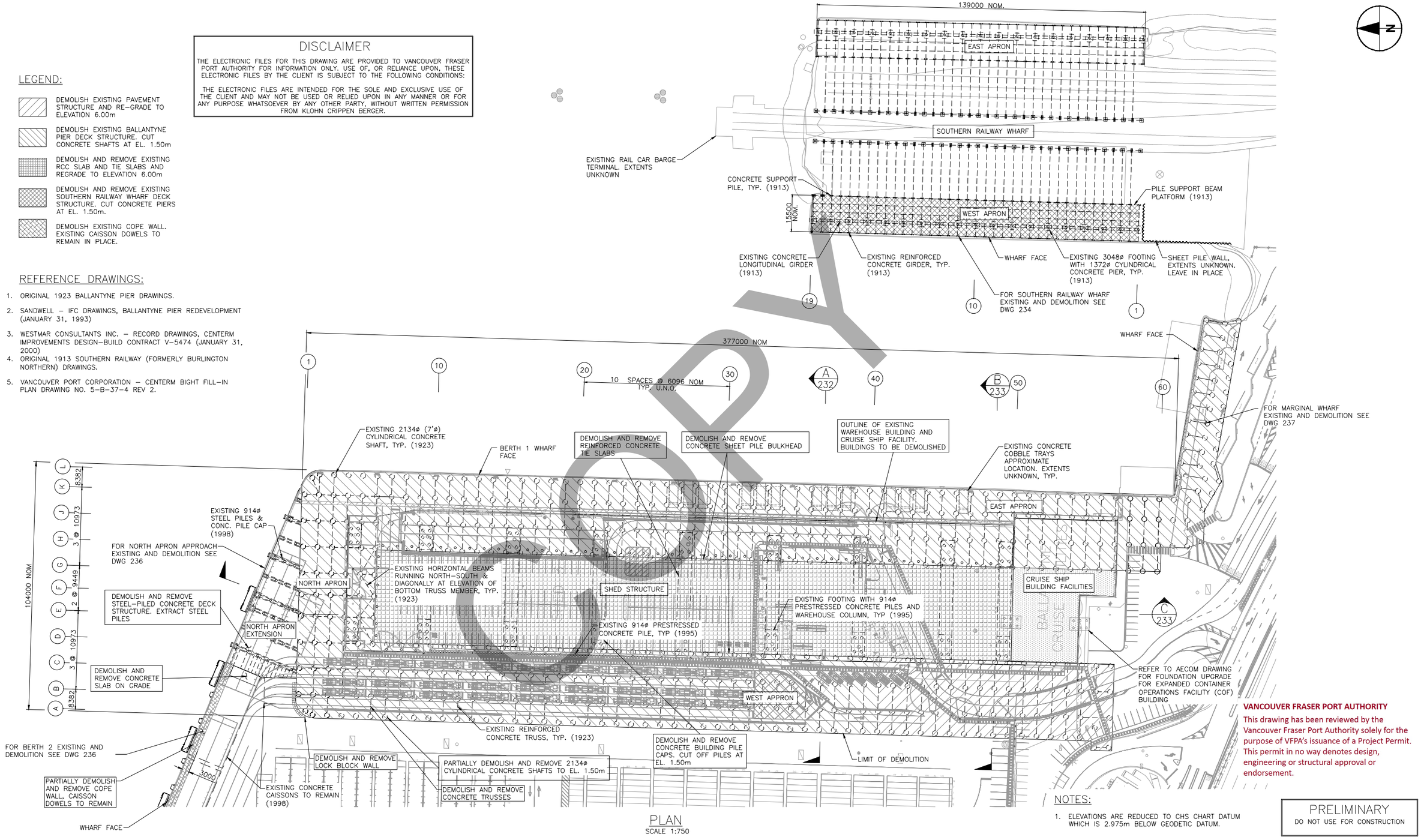
LEGEND:

- DEMOLISH EXISTING PAVEMENT STRUCTURE AND RE-GRADE TO ELEVATION 6.00m
- DEMOLISH EXISTING BALLANTYNE PIER DECK STRUCTURE. CUT CONCRETE SHAFTS AT EL. 1.50m
- DEMOLISH AND REMOVE EXISTING RCC SLAB AND TIE SLABS AND REGRADE TO ELEVATION 6.00m
- DEMOLISH AND REMOVE EXISTING SOUTHERN RAILWAY WHARF DECK STRUCTURE. CUT CONCRETE PIERS AT EL. 1.50m.
- DEMOLISH EXISTING COPE WALL. EXISTING CAISSON DOWELS TO REMAIN IN PLACE.

REFERENCE DRAWINGS:

1. ORIGINAL 1923 BALLANTYNE PIER DRAWINGS.
2. SANDWELL – IFC DRAWINGS, BALLANTYNE PIER REDEVELOPMENT (JANUARY 31, 1993)
3. WESTMAR CONSULTANTS INC. – RECORD DRAWINGS, CENTERM IMPROVEMENTS DESIGN-BUILD CONTRACT V-5474 (JANUARY 31, 2000)
4. ORIGINAL 1913 SOUTHERN RAILWAY (FORMERLY BURLINGTON NORTHERN) DRAWINGS.
5. VANCOUVER PORT CORPORATION – CENTERM BIGHT FILL-IN PLAN DRAWING NO. 5-B-37-4 REV 2.



PLAN
SCALE 1:750

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PATH: \\int.klohn.com\ProjData\P\VCR\P09948A01 PMV-AECOM Centerm Expansion\400 Drawings\Project & Environmental Review - 2016\\32-481-231 E EXT EXISTING PIER & DEMOLITION PLAN DRAFT.dwg

No.	Date	REVISION	Dr'n	Ch'd
P5	2016/09/14	ISSUED FOR PER APPLICATION	K.V.	G.C.

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AECOM

DP WORLD Vancouver

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DESIGN BY	G.B.A.C./K.G.
DRAWN BY	A.R.
APPROVED	G.B.A.C.
DATE	2014-12-12
SCALE	AS NOTED
PMV SITE	32-481

CENTERM EXPANSION PROJECT
EASTERN EXPANSION
EXISTING BALLANTYNE PIER
DEMOLITION PLAN

SIZE	DWG.	SHEET	REV.
D	32-481-231	1 of 1	P5

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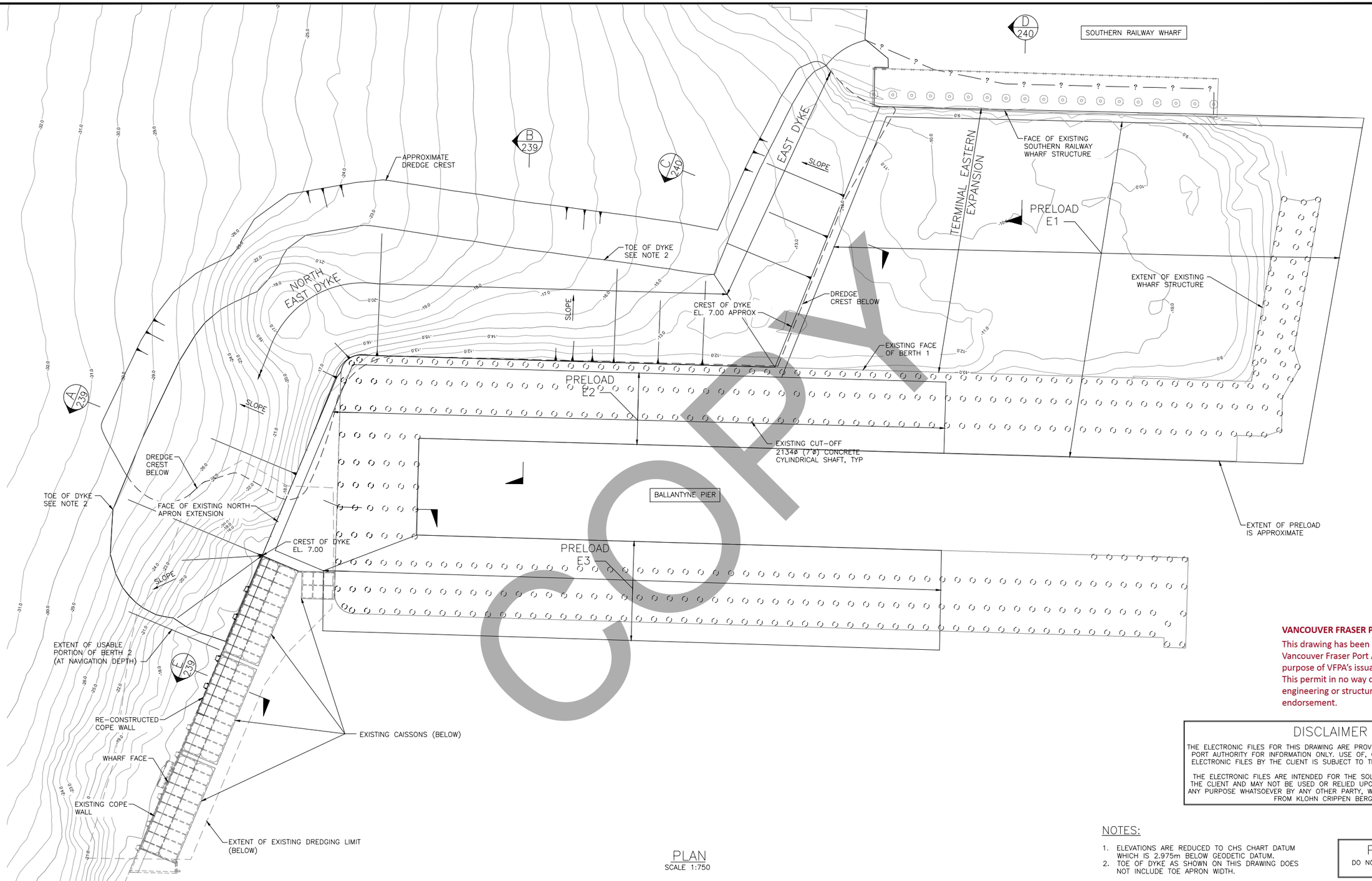

PLAN
SCALE 1:750

COPY

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2. TOE OF DYKE AS SHOWN ON THIS DRAWING DOES NOT INCLUDE TOE APRON WIDTH.

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No.	Date	REVISION	Dr'n	Ch'd
P5	2016/09/14	ISSUED FOR PER APPLICATION	K.V.	G.C.

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AECOM

DP WORLD Vancouver

PORT of vancouver

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DRAWN BY	AR
APPROVED	G.B.A.C.
DATE	2014-12-12
SCALE	AS NOTED
PMV SITE	32-481

CENTERM EXPANSION PROJECT
EASTERN EXPANSION
TERMINAL – PLAN

SIZE	DWG.	SHEET	REV.
D	32-481-238	1 of 1	P5

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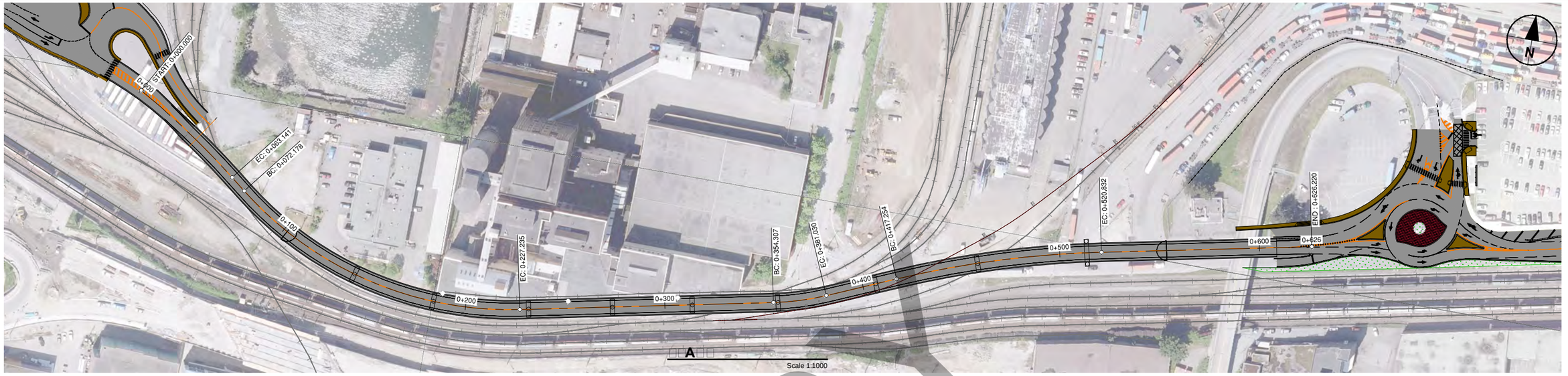

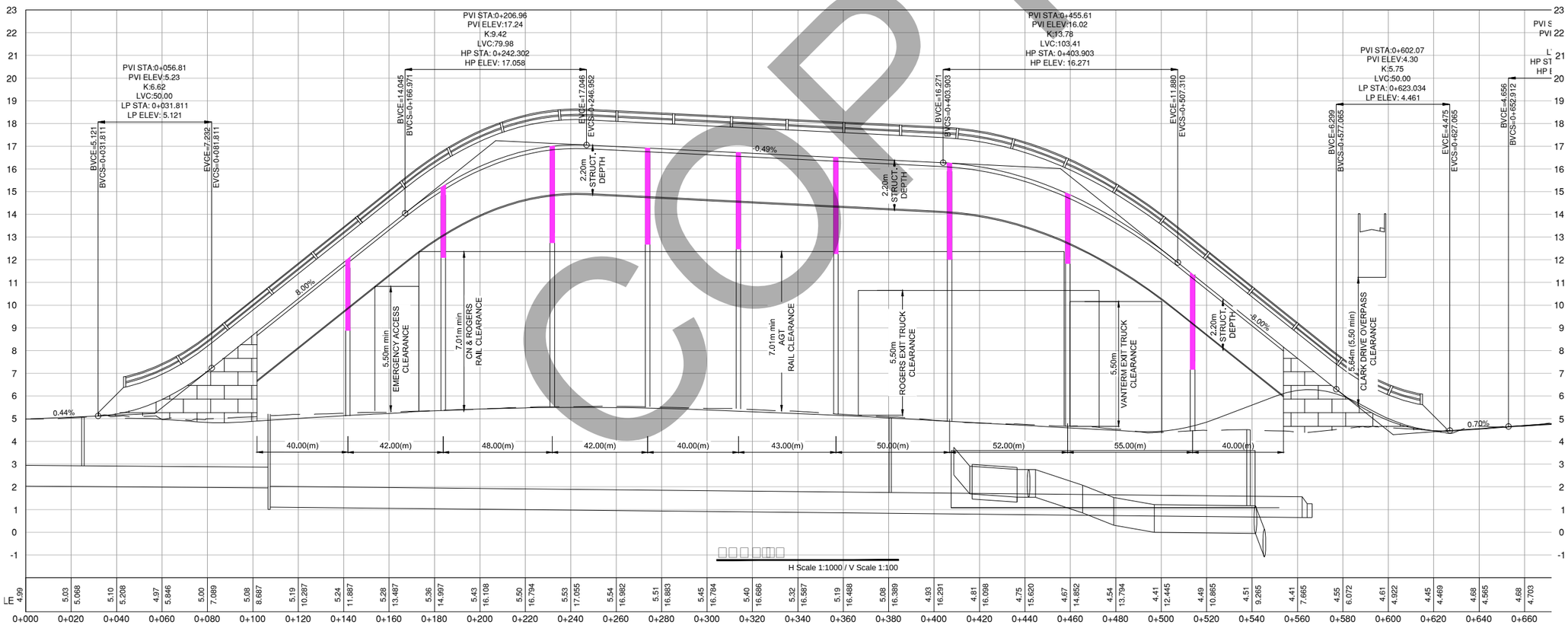

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0 2.5 5 m
VERTICAL SCALE 1:100

0 25 50 m
HORIZONTAL SCALE 1:1000

No.	Date	REVISION	Dr'n	Ch'd
P5	2016/10/17	Issued For PER Application	FS	NS
P4	2016/09/14	Issued For PER Application	FS	CM

Klohn Crippen Berger
PBX ENGINEERING

LEAD CONSULTANT
AECOM

DP WORLD Vancouver

PORT of vancouver

DESIGN BY	JR
DRAWN BY	JR
APPROVED	NS
DATE	2016-04-08
SCALE	AS NOTED
PMV SITE	

SOUTH SHORE ACCESS PROJECT
REFERENCE CONCEPT DESIGN
CENTENNIAL ROAD OVERPASS
PLAN AND PROFILE

SIZE	DWG.	SHEET	REV.
D	32-481-530	1 of 2	P5

DATE: 2016/10/17 - 3:46pm
PATH: P:\60476505\900-Work\910-CAD\25-SKETCHES\PER Application Drawings\PER-32-481-530.dwg

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PATH: P:\60476505\900-Work\910-CAD\25-SKETCHES\PER Application Drawings\\PER-32-481-532.dwg

REMOVE EXISTING BUILDING

RETAIN EXISTING ROAD NETWORK AT ROGERS ST. C/W CWS

ACCESS TO AGT

RELOCATED VANTERM WEST RAIL SPUR

RELOCATE HARBOUR WEST INTERCEPTOR

DRIVEWAY LETDOWN FOR EXISTING PARKING

CLARK DRIVE VACS TO BE RETAINED

CHAINLINK FENCE

BC: 0+354.307

EC: 0+381.030

BC: 0+417.254

EC: 0+450.922

BC: 0+626.220

END: 0+629.602

EC: 0+634.412

0+626

BC: 0+666.656

BC: 0+675.084

EC: 0+692.725

0+700

CANADIAN

N

LAN

Scale 1:500

VANCOUVER FRASER PORT AUTHORITY

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0 12.5 25 m
1:500

No.	Date	REVISION	Dr'n	Ch'd
P5	2016/10/17	Issued For PER Application	FS	NS
P4	2016/09/14	Issued For PER Application	FS	CM

Klohn Crippen Berger
PBX ENGINEERING

LEAD CONSULTANT
AECOM

DP WORLD Vancouver

PORT of vancouver

DESIGN BY	JR
DRAWN BY	JR
APPROVED	NS
DATE	2016-04-08
SCALE	AS NOTED
PMV SITE	32-481

SOUTH SHORE ACCESS PROJECT
CENTENNIAL ROAD OVERPASS
LAYOUT AT CLARK DRIVE

SIZE	DWG.	SHEET	REV.
D	32-481-532	1 of 1	P5

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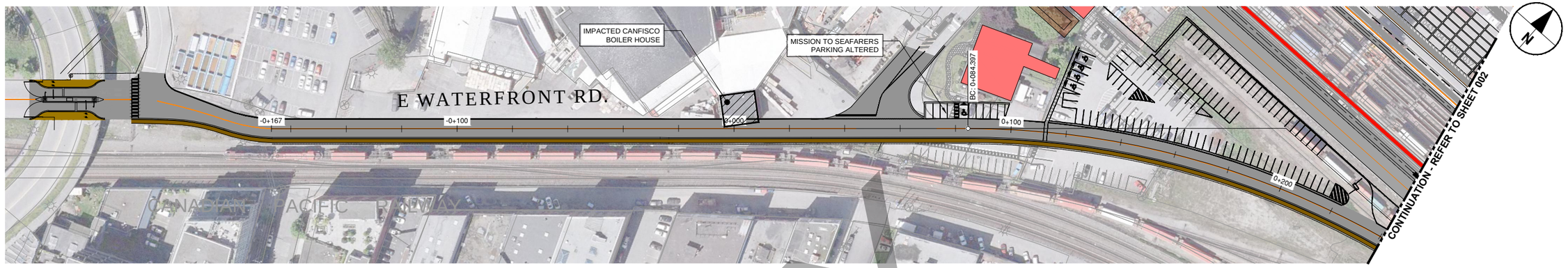
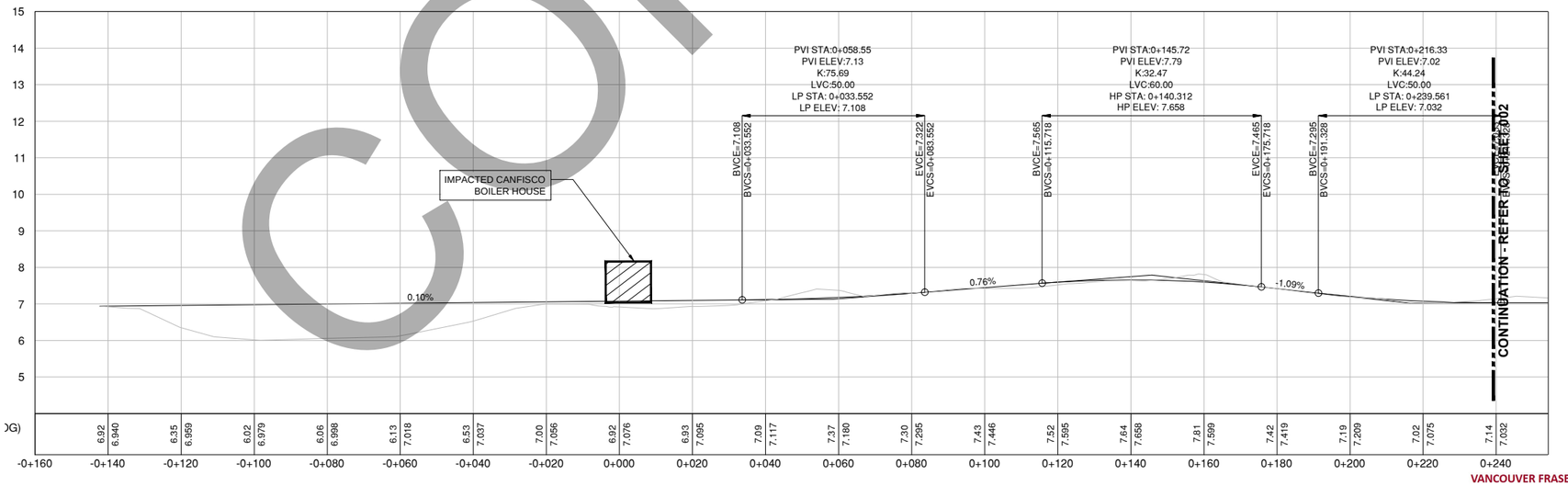


0 18.75 37.5 m
1:750

PLAN
1:750



PROFILE
Vertical 1:75
Horizontal 1:750

0 18.75 37.5 m H=1:750
0 1.875 3.75 V=1:75

COPY

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Klohn Crippen Berger
PBX ENGINEERING

LEAD CONSULTANT
AECOM

DP WORLD Vancouver

PORT of vancouver

DESIGN BY	JR
DRAWN BY	JR
APPROVED	NS
DATE	2016-08-15
SCALE	AS NOTED
PMV SITE	32-481

SOUTH SHORE ACCESS PROJECT
WATERFRONT ROAD
PLAN AND PROFILE

SIZE D | DWG. 32-481-522 | SHEET 1 of 2 | REV. P5

DATE: 2016/10/18 - 8:56am
PATH: F:\60476305\900-Work\910-CAD\25-SKETCHES\PER Application Drawings\PER-32-481-522.dwg

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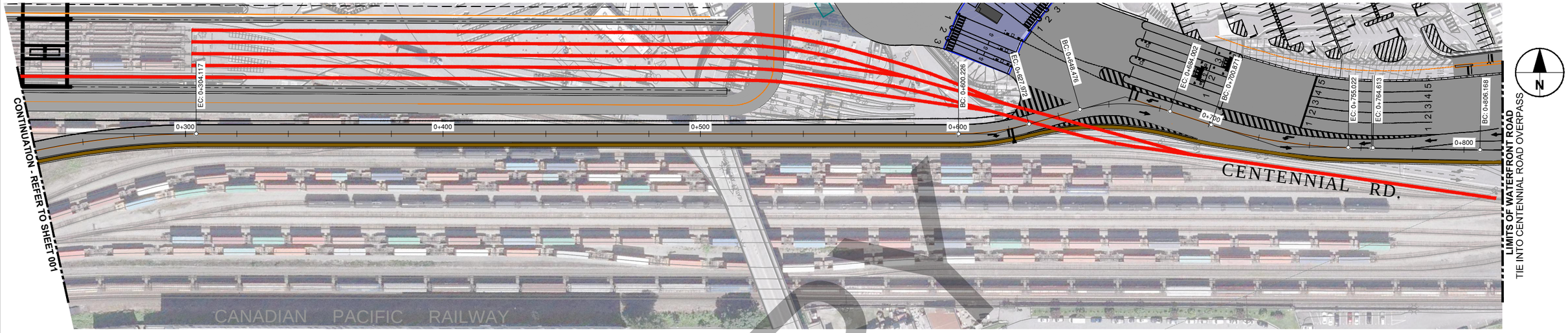
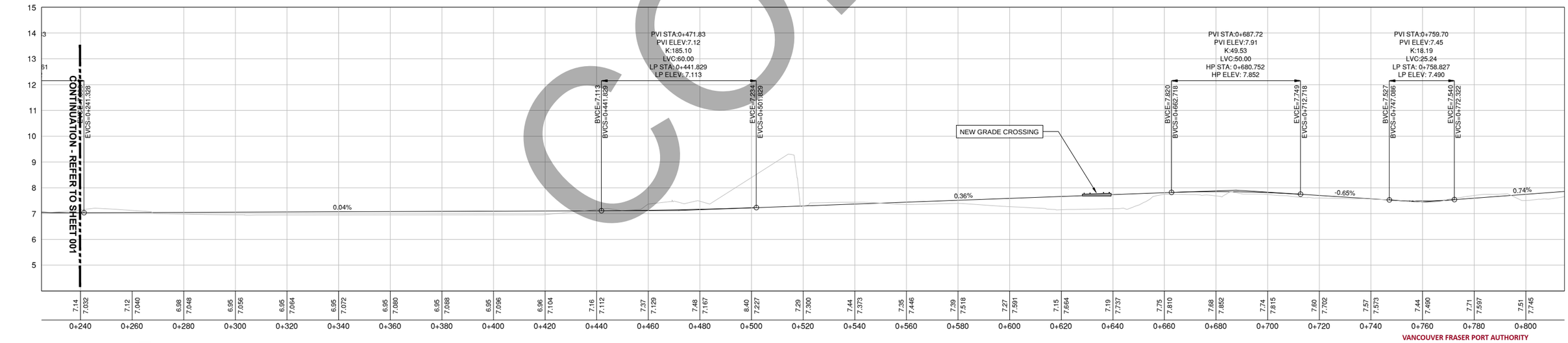


0 18.75 37.5 m
1:750

PLAN
1:750



0 18.75 37.5 m H=1:750
0 1.875 3.75 V=1:75

PROFILE
Vertical 1:75
Horizontal 1:750

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DESIGN BY	JR
DRAWN BY	JR
APPROVED	NS
DATE	2016-08-15
SCALE	AS NOTED
PMV SITE	32-481

SOUTH SHORE ACCESS PROJECT
WATERFRONT ROAD
PLAN AND PROFILE

SIZE	DWG.	SHEET	REV.
D	32-481-522	2 of 2	P5

DATE: 2016/10/18 - 8:57am
PATH: F:\60476305\900-Work\910-CAD\25-SKETCHES\PER Application Drawings\PER-32-481-522.dwg