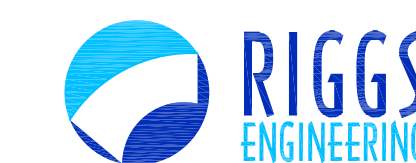
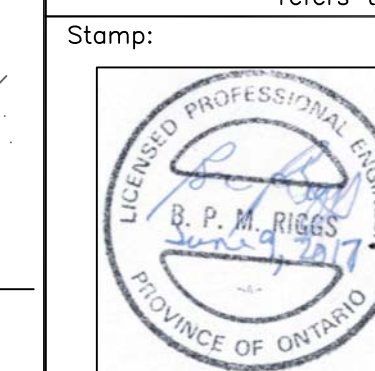


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 Website: www.riggsengineering.com

- 1 Detail No.
- 2 drawing no. - where detail required refers to MA-
- 3 drawing no. - where detailed refers to MA-



NOTES:

REVISIONS:	DATE:

SCALE: AS NOTED CLASS:

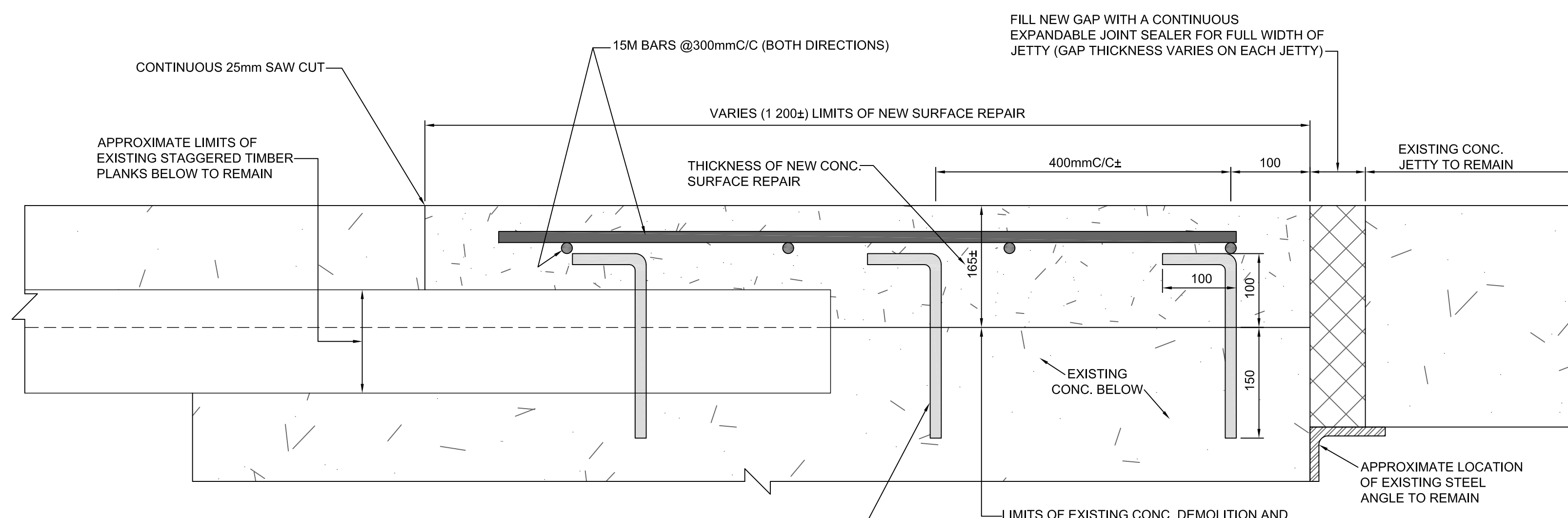
PROJECT:
**FISHERMEN'S BASIN
 JETTY REHABILITATION**

DESCRIPTION:
TYP. DETAILS

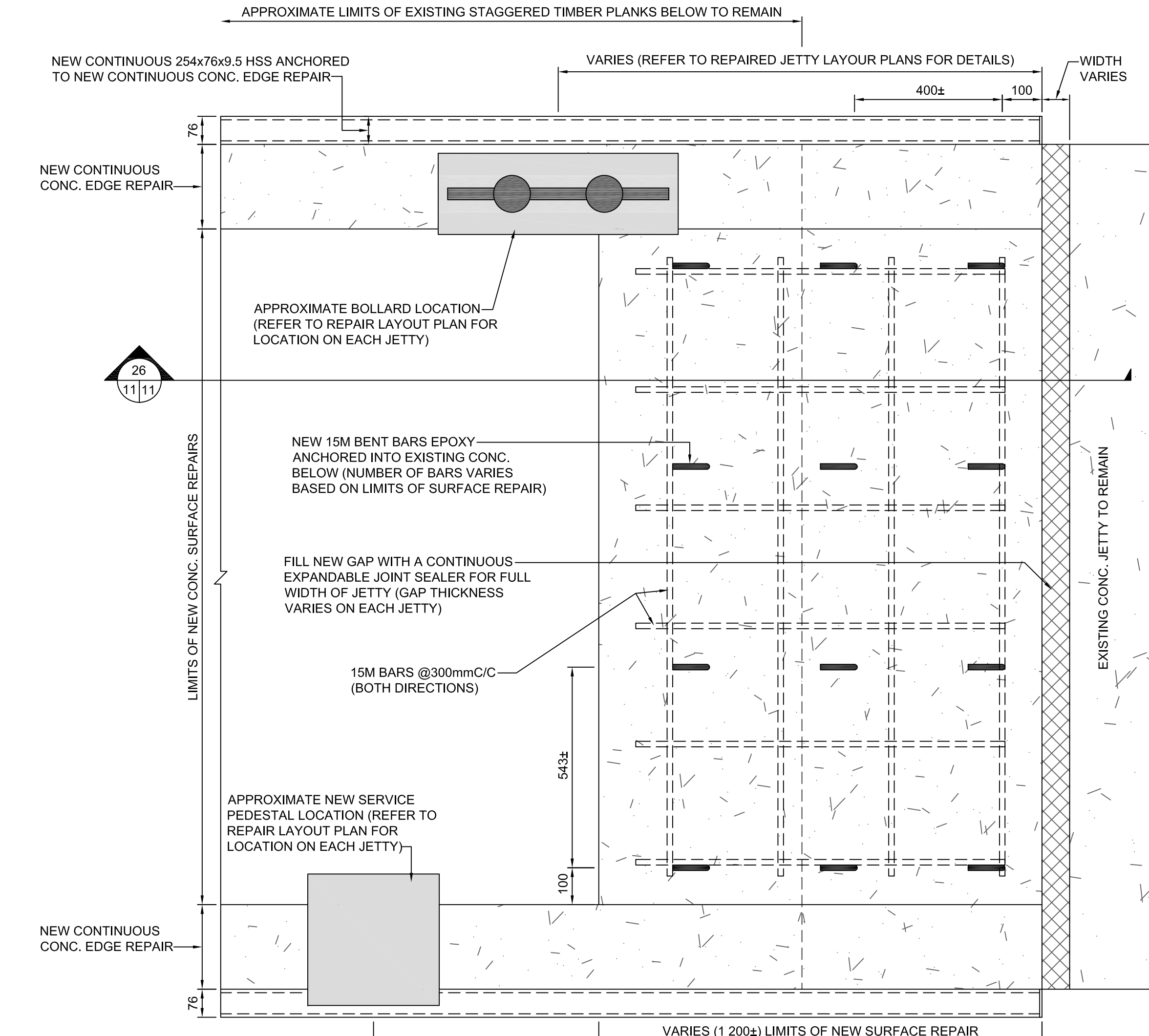
DRAWN: A.M	APPROVED: B.R.
DATE: 2016-03-31	DATE: 2016-03-31

LOCATION:
**PORT DOVER
 ONTARIO**

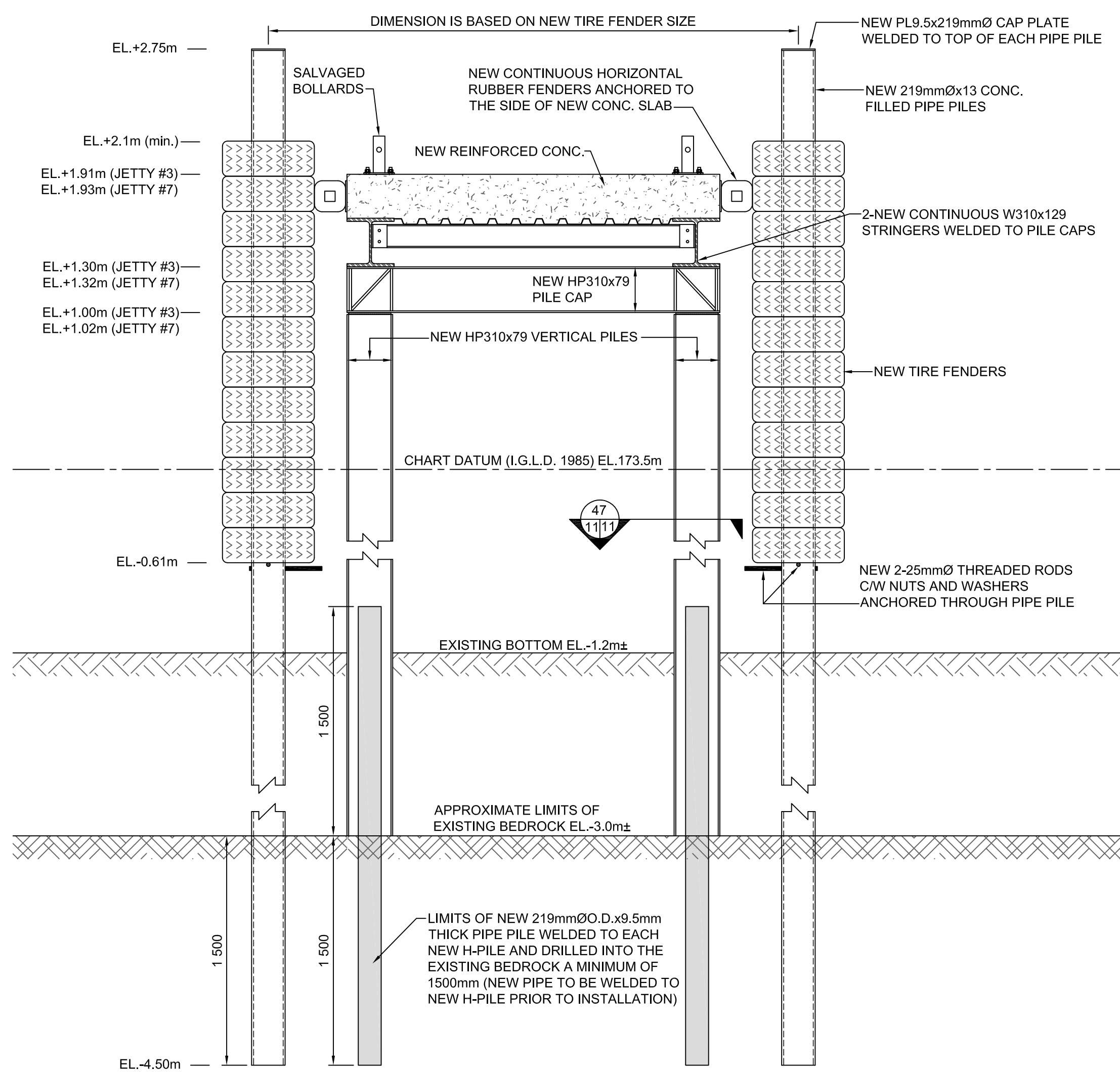
DRAWING NO.: MA-11	LOCATOR CODE: 140433-001
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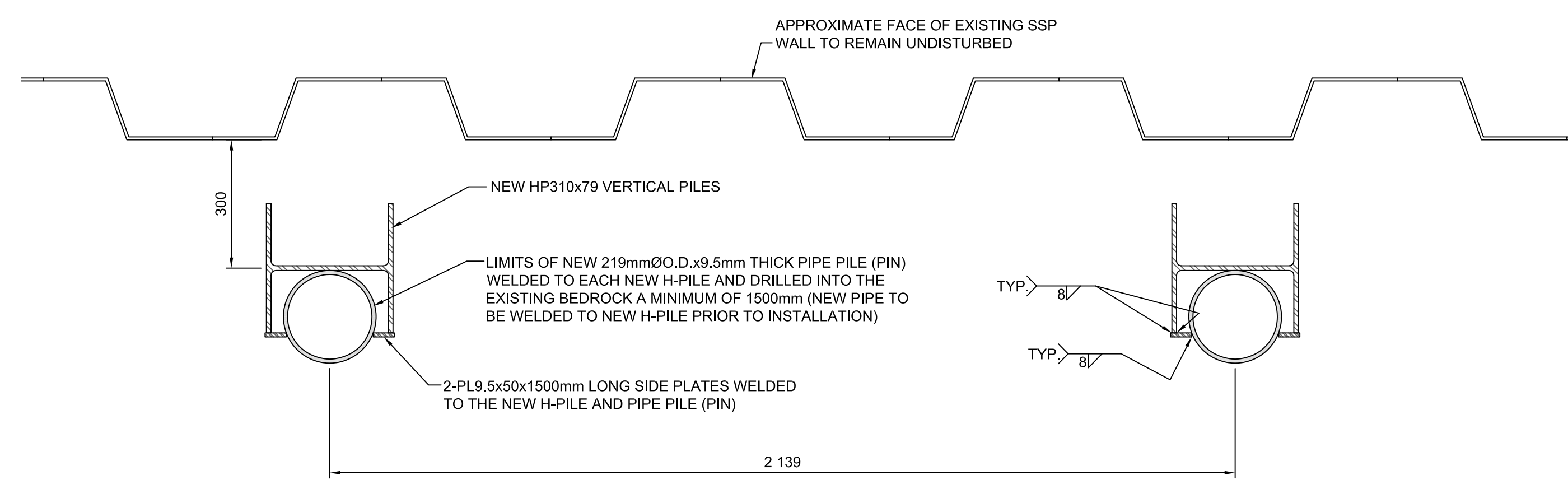
26
 11/11
TYP. CONC. SURFACE REPAIR DETAIL (JETTY 2,4,6)
 SCALE: 1:5



25
 6/8/11
TYP. CONC. SURFACE REPAIR DETAIL (JETTY 2,4,6)
 SCALE: 1:10

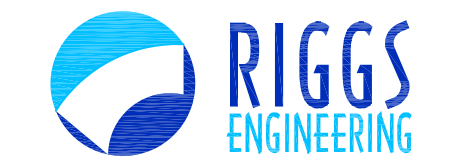


46
 8/11
TYP. SECTION OF REPAIRED JETTY #3 & 7
 SCALE: 1:25



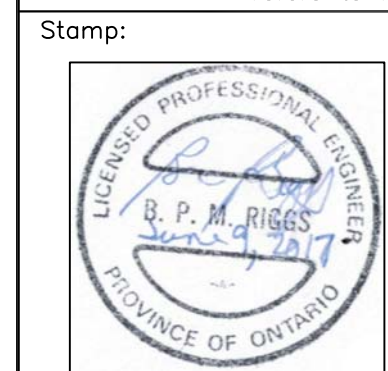
47
 11/11
TYP. SECTION OF H-PILE PIN CONNECTION (JETTY 3 & 7)
 SCALE: 1:10

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- 3 drawing no. - where detailed refers to MA-



NOTES:

REVISIONS:	DATE:

SCALE: AS NOTED CLASS:

PROJECT:
**FISHERMEN'S BASIN
 JETTY REHABILITATION**

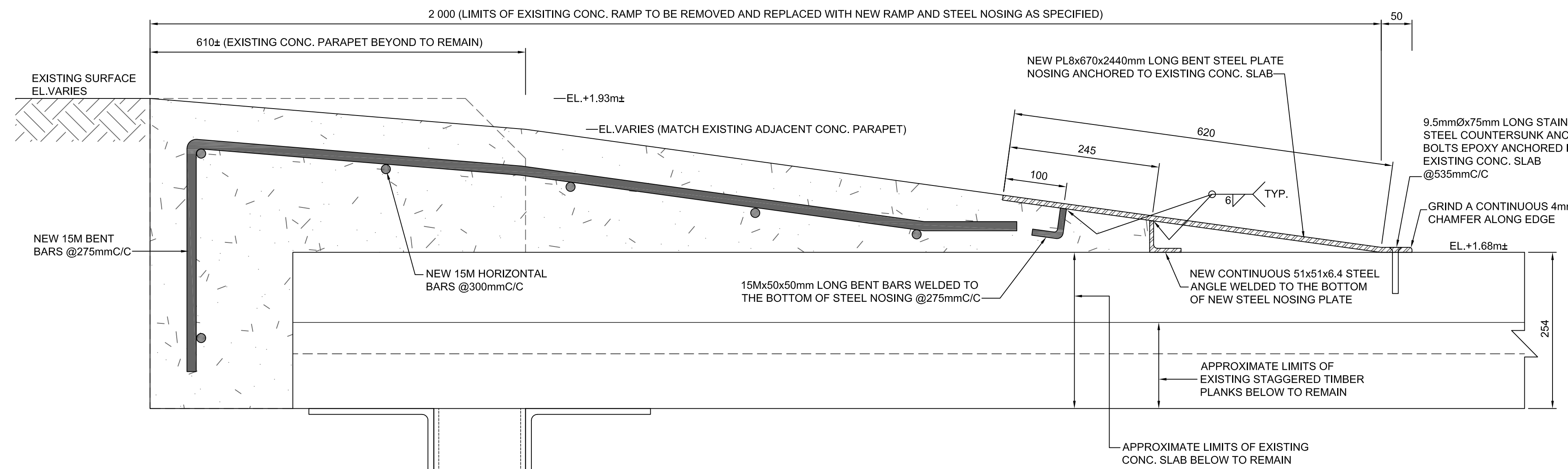
DESCRIPTION:
TYP. DETAILS

DRAWN: **A.M** APPROVED: **B.R.**

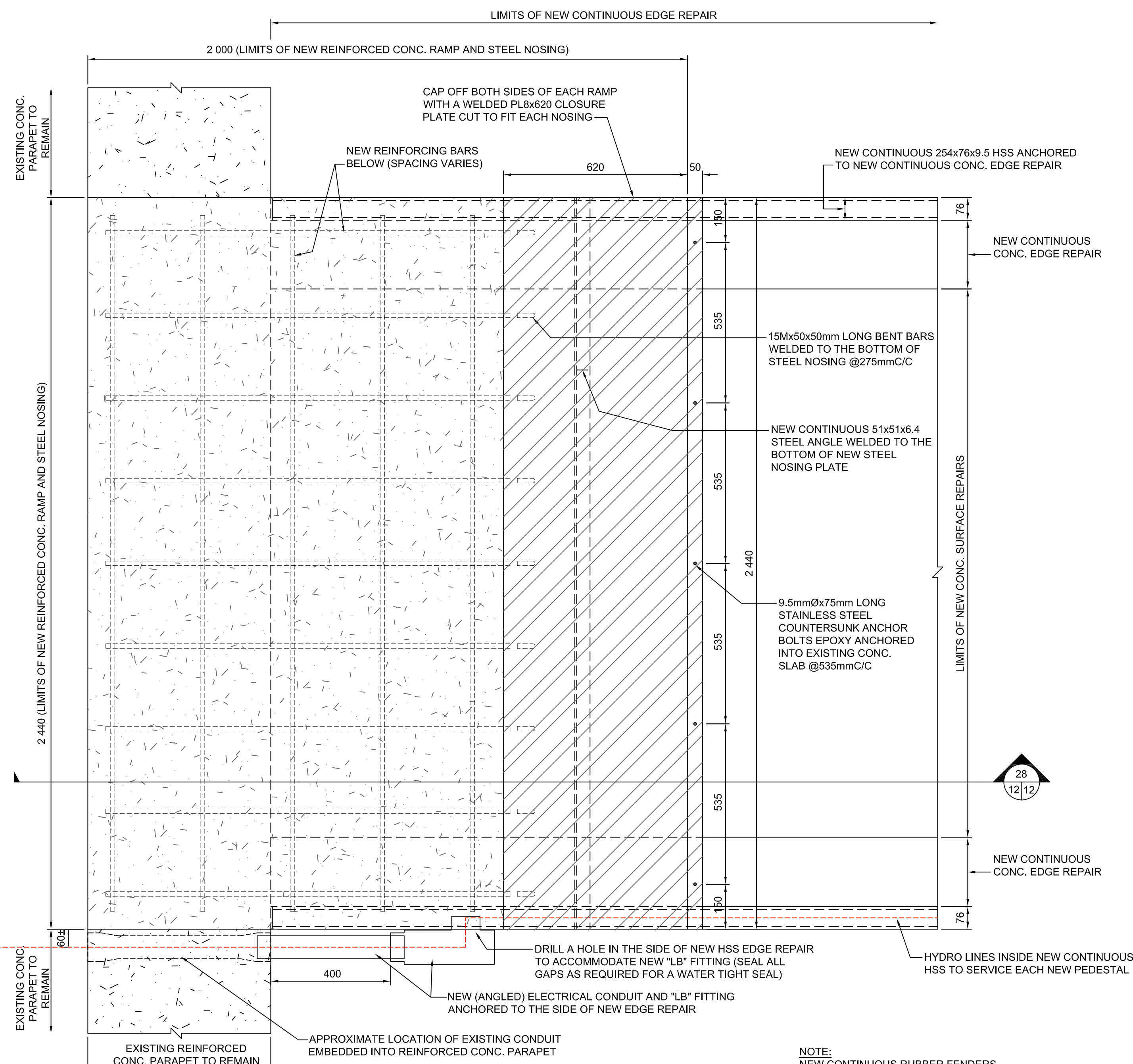
DATE: **2016-03-31** DATE: **2016-03-31**

LOCATION:
**PORT DOVER
 ONTARIO**

DRAWING NO.: **MA-12** LOCATOR CODE: **140433-001**



28 TYP. CONC. RAMP REPAIR DETAIL (JETTY 2,4,6)
 SCALE: 1:5



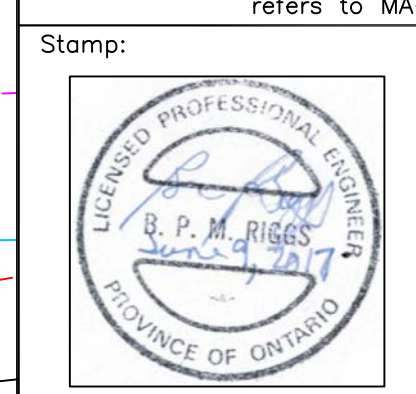
27 TYP. CONC. RAMP REPAIR DETAIL (JETTY 2,4,6)
 SCALE: 1:10

SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION

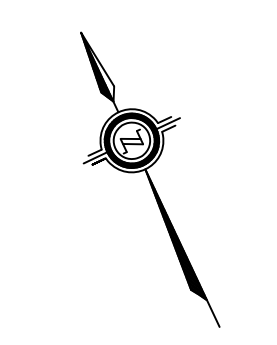


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NOTES:



REVISIONS:	DATE:

SCALE: AS NOTED CLASS:

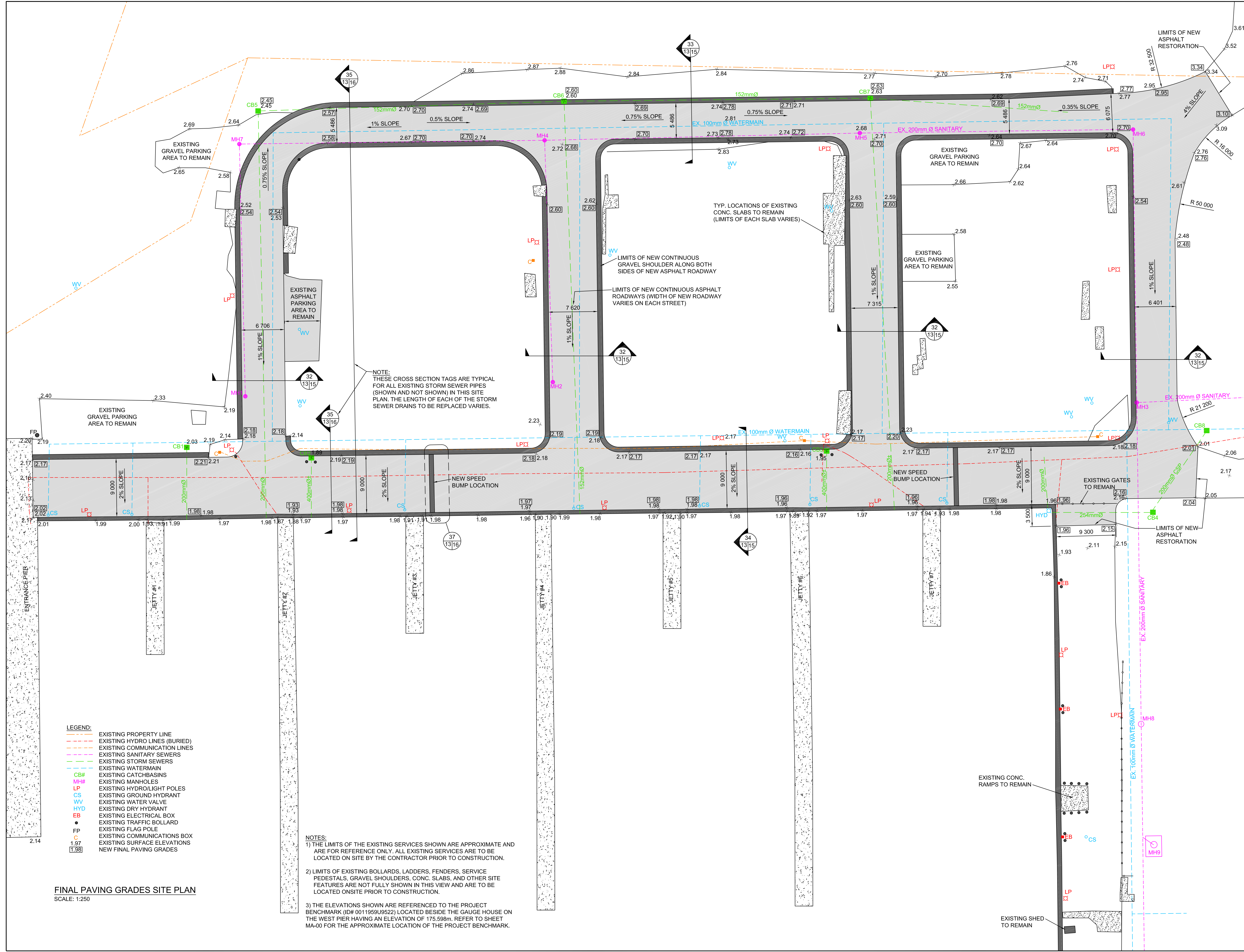
PROJECT:
**FISHERMEN'S BASIN
JETTY REHABILITATION**

DESCRIPTION:
**SITE PLAN OF NEW ASPHALT
AND SERVICE REPAIRS**

DRAWN: A.M	APPROVED: B.R.
DATE: 2016-03-31	DATE: 2016-03-31

LOCATION:
**PORT DOVER
ONTARIO**

DRAWING NO.: MA-13	LOCATOR CODE: 140433-001
------------------------------	------------------------------------

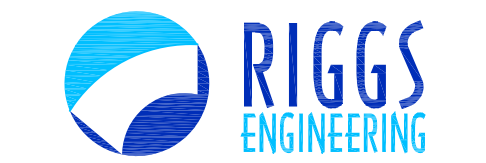


- LEGEND:**
- EXISTING PROPERTY LINE
 - EXISTING HYDRO LINES (BURIED)
 - EXISTING COMMUNICATION LINES
 - EXISTING SANITARY SEWERS
 - EXISTING STORM SEWERS
 - EXISTING WATERMAIN
 - CB# EXISTING CATCHBASINS
 - MH# EXISTING MANHOLES
 - LP EXISTING HYDRO/LIGHT POLES
 - CS EXISTING GROUND HYDRANT
 - WV EXISTING WATER VALVE
 - HYD EXISTING DRY HYDRANT
 - EB EXISTING ELECTRICAL BOX
 - EXISTING TRAFFIC BOLLARD
 - EXISTING FLAG POLE
 - EXISTING COMMUNICATIONS BOX
 - 1.97 EXISTING SURFACE ELEVATIONS
 - 1.98 NEW FINAL PAVING GRADES

- NOTES:**
- 1) THE LIMITS OF THE EXISTING SERVICES SHOWN ARE APPROXIMATE AND ARE FOR REFERENCE ONLY. ALL EXISTING SERVICES ARE TO BE LOCATED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 - 2) LIMITS OF EXISTING BOLLARDS, LADDERS, FENDERS, SERVICE PEDESTALS, GRAVEL SHOULDERS, CONC. SLABS, AND OTHER SITE FEATURES ARE NOT FULLY SHOWN IN THIS VIEW AND ARE TO BE LOCATED ONSITE PRIOR TO CONSTRUCTION.
 - 3) THE ELEVATIONS SHOWN ARE REFERENCED TO THE PROJECT BENCHMARK (ID# 00119509522) LOCATED BESIDE THE GAUGE HOUSE ON THE WEST PIER HAVING AN ELEVATION OF 175.598m. REFER TO SHEET MA-00 FOR THE APPROXIMATE LOCATION OF THE PROJECT BENCHMARK.

FINAL PAVING GRADES SITE PLAN
SCALE: 1:250

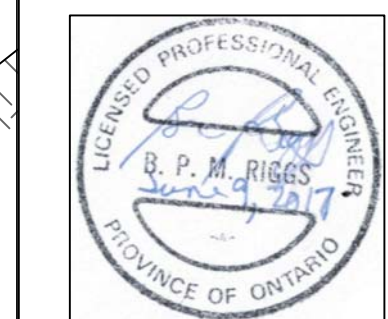
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- 2 drawing no. - where detail required refers to MA-
- 3 drawing no. - where detailed refers to MA-

Stamp:



NOTES:

REVISIONS:	DATE:

SCALE: AS NOTED CLASS:

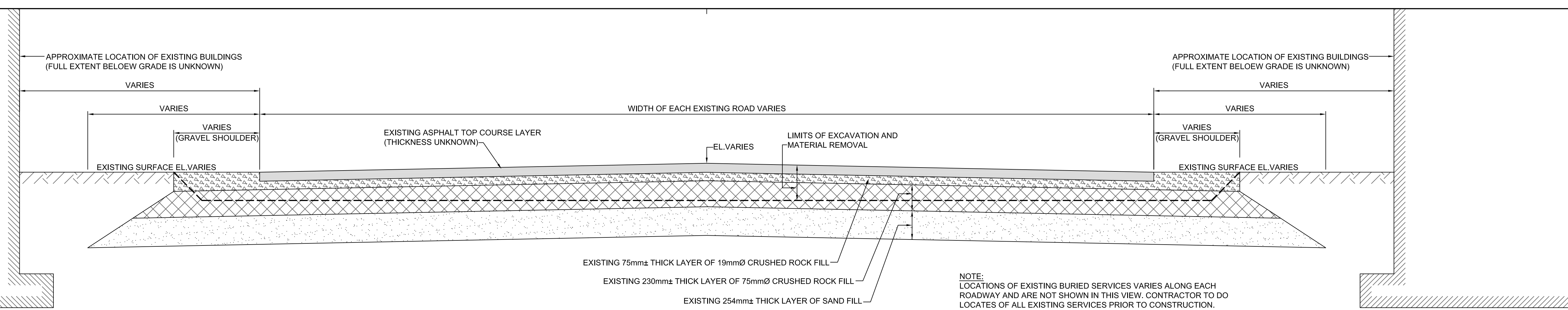
PROJECT:
**FISHERMEN'S BASIN
 JETTY REHABILITATION**

DESCRIPTION:
**TYP. SECTIONS OF EXISTING
 PAVING CONDITIONS**

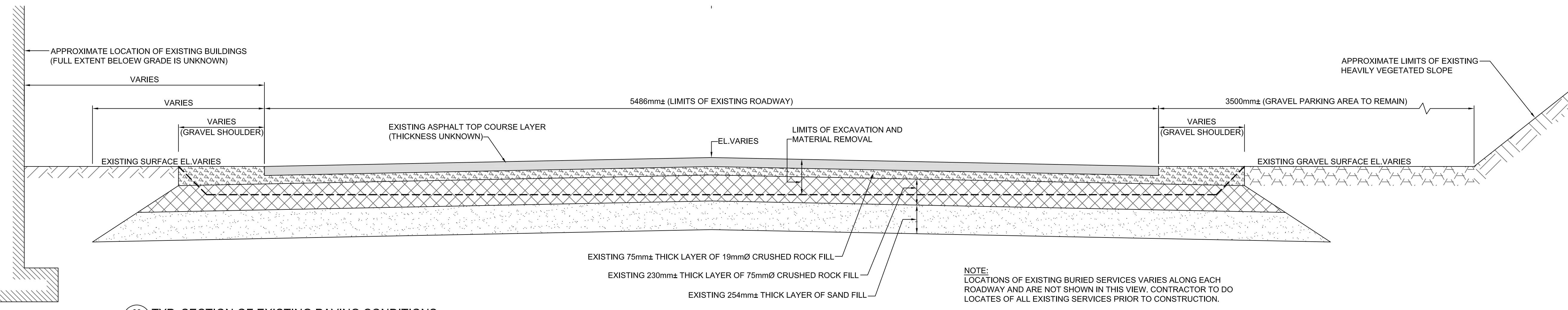
DRAWN: A.M	APPROVED: B.R.
DATE: 2016-03-31	DATE: 2016-03-31

LOCATION:
**PORT DOVER
 ONTARIO**

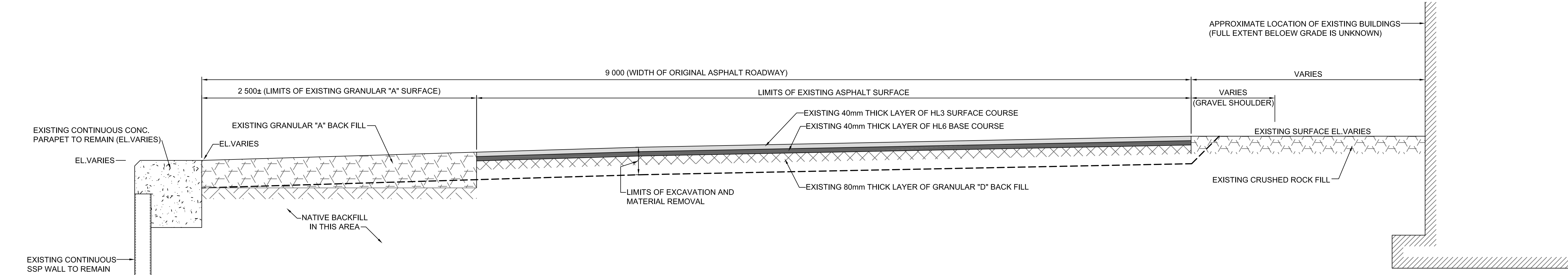
DRAWING NO.: MA-14	LOCATOR CODE: 140433-001
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29 TYP. SECTION OF EXISTING PAVING CONDITIONS
 SCALE: 1:20



30 TYP. SECTION OF EXISTING PAVING CONDITIONS
 SCALE: 1:20



31 TYP. SECTION OF EXISTING PAVING CONDITIONS ALONG DOCK WALL
 SCALE: 1:20

NOTE:
 LOCATIONS OF EXISTING BURIED SERVICES VARIES ALONG EACH ROADWAY AND ARE NOT SHOWN IN THIS VIEW. CONTRACTOR TO DO LOCATES OF ALL EXISTING SERVICES PRIOR TO CONSTRUCTION.

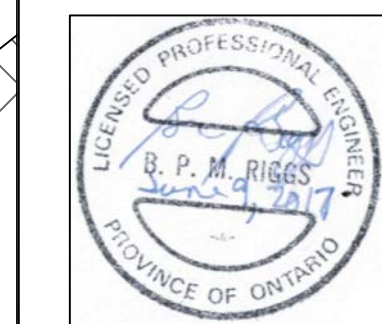
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- 3 drawing no. - where detailed refers to MA-

Stamp:



NOTES:

REVISIONS:	DATE:

SCALE: **AS NOTED** CLASS:

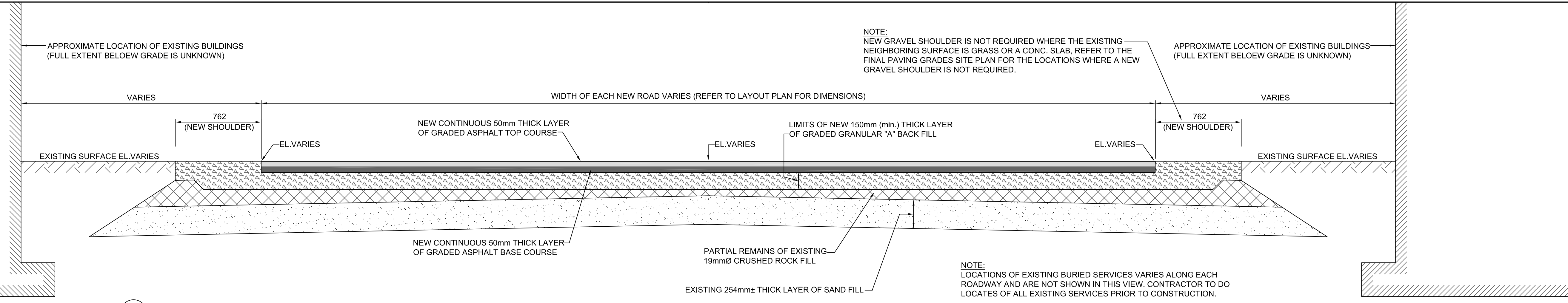
PROJECT:
**FISHERMEN'S BASIN
 JETTY REHABILITATION**

DESCRIPTION:
**TYP. SECTIONS OF
 NEW PAVING**

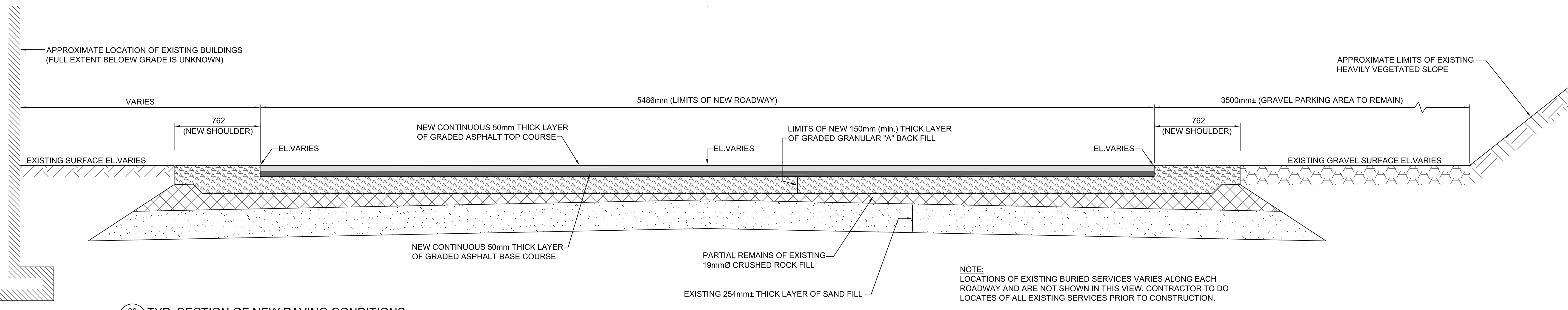
DRAWN: A.M	APPROVED: B.R.
DATE: 2016-03-31	DATE: 2016-03-31

LOCATION:
**PORT DOVER
 ONTARIO**

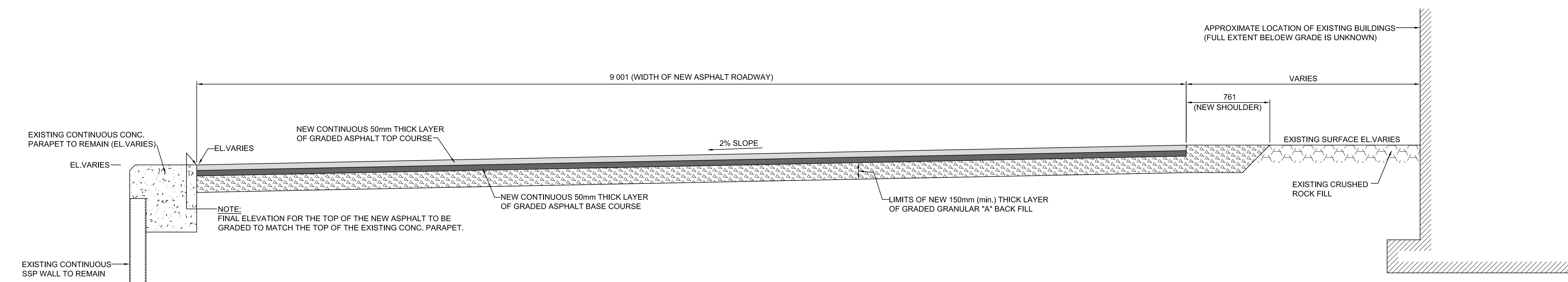
DRAWING NO.: MA-15	LOCATOR CODE: 140433-001
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32 TYP. SECTION OF NEW PAVING CONDITIONS
 SCALE: 1:20



33 TYP. SECTION OF NEW PAVING CONDITIONS
 SCALE: 1:20



34 TYP. SECTION OF NEW PAVING CONDITIONS ALONG DOCK WALL
 SCALE: 1:20

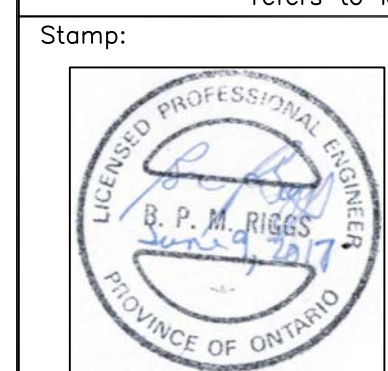
NOTE:
 LOCATIONS OF EXISTING BURIED SERVICES VARIES ALONG EACH ROADWAY AND ARE NOT SHOWN IN THIS VIEW. CONTRACTOR TO DO LOCATES OF ALL EXISTING SERVICES PRIOR TO CONSTRUCTION.

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- 3 drawing no. - where detailed refers to MA-



NOTES:

REVISIONS:	DATE:

SCALE: AS NOTED CLASS:

PROJECT: FISHERMEN'S BASIN JETTY REHABILITATION

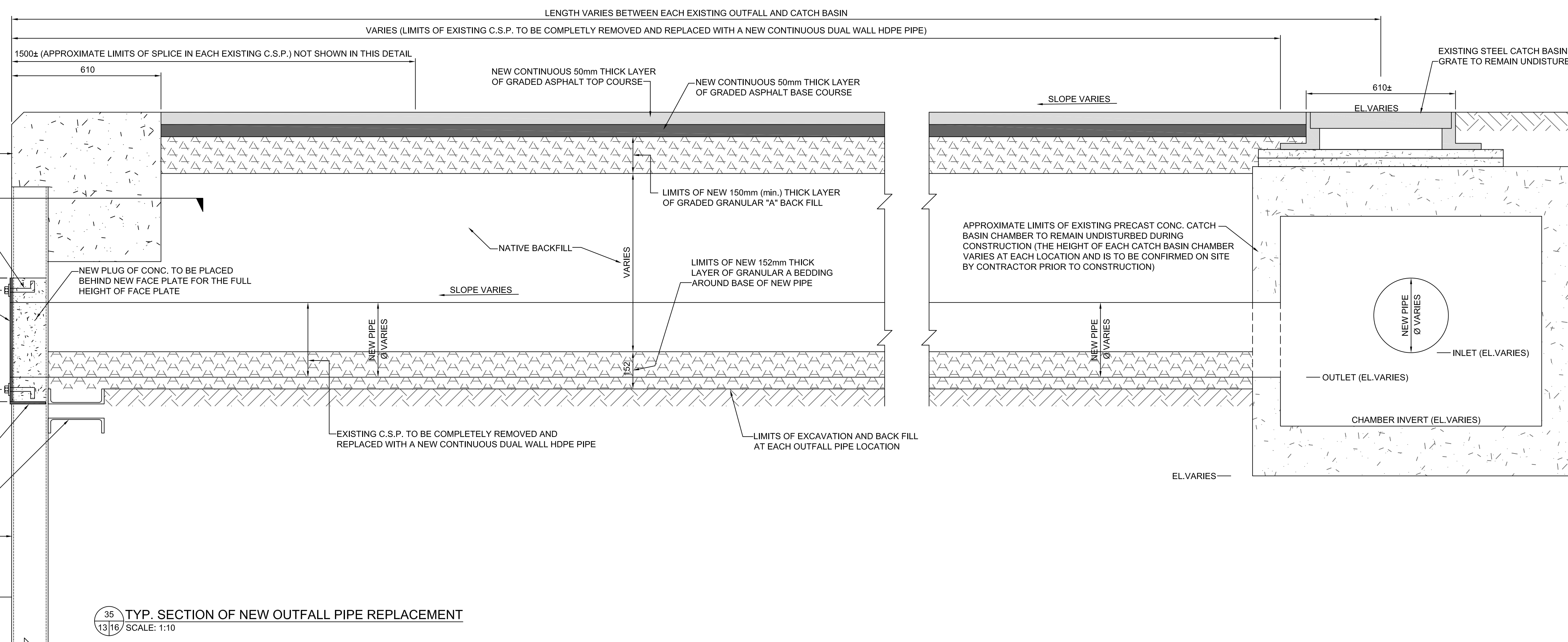
DESCRIPTION: TYP. STORM SEWER REPAIR DETAILS

DRAWN: A.M APPROVED: B.R.

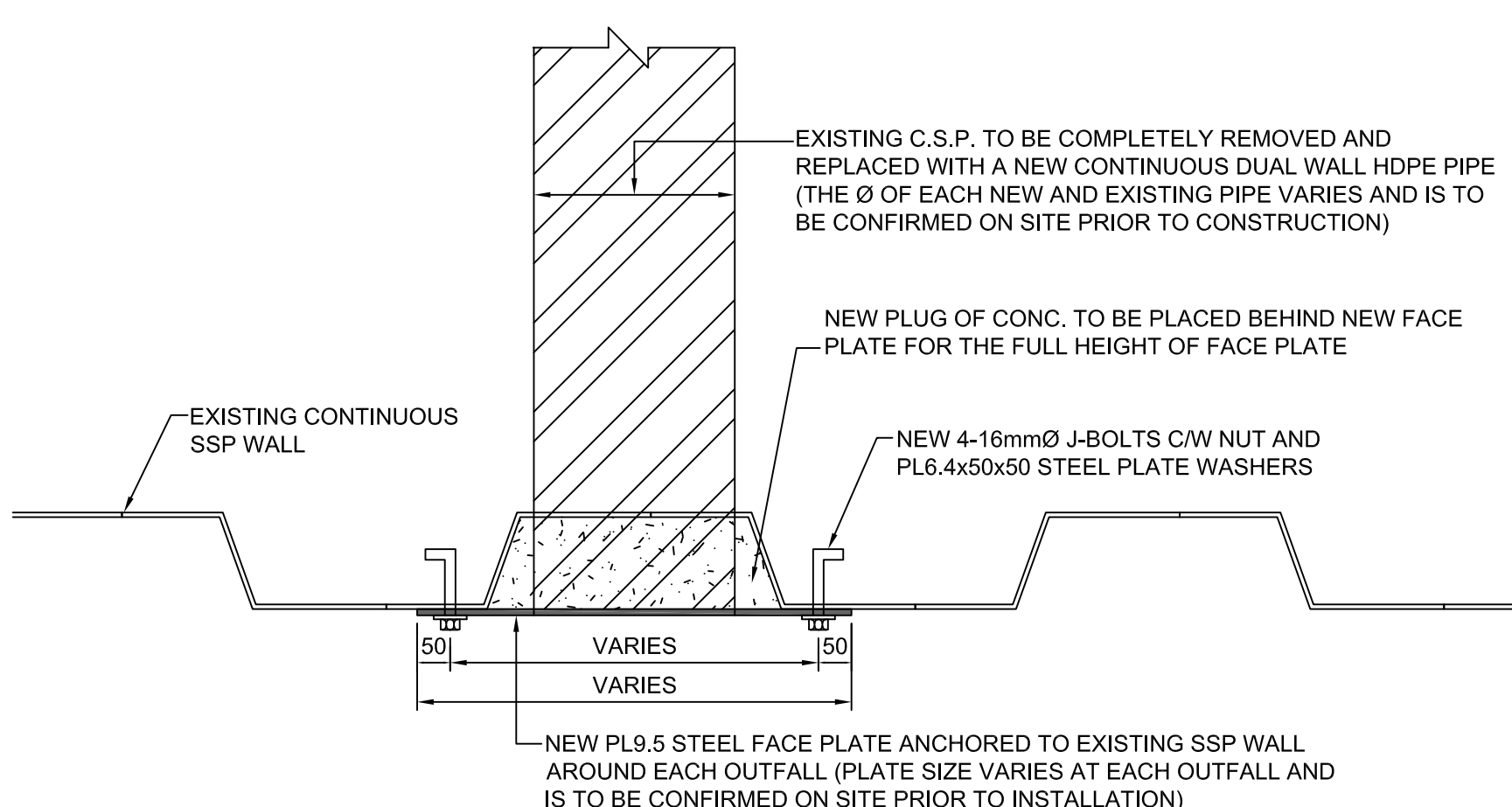
DATE: 2016-03-31 DATE: 2016-03-31

LOCATION: PORT DOVER ONTARIO

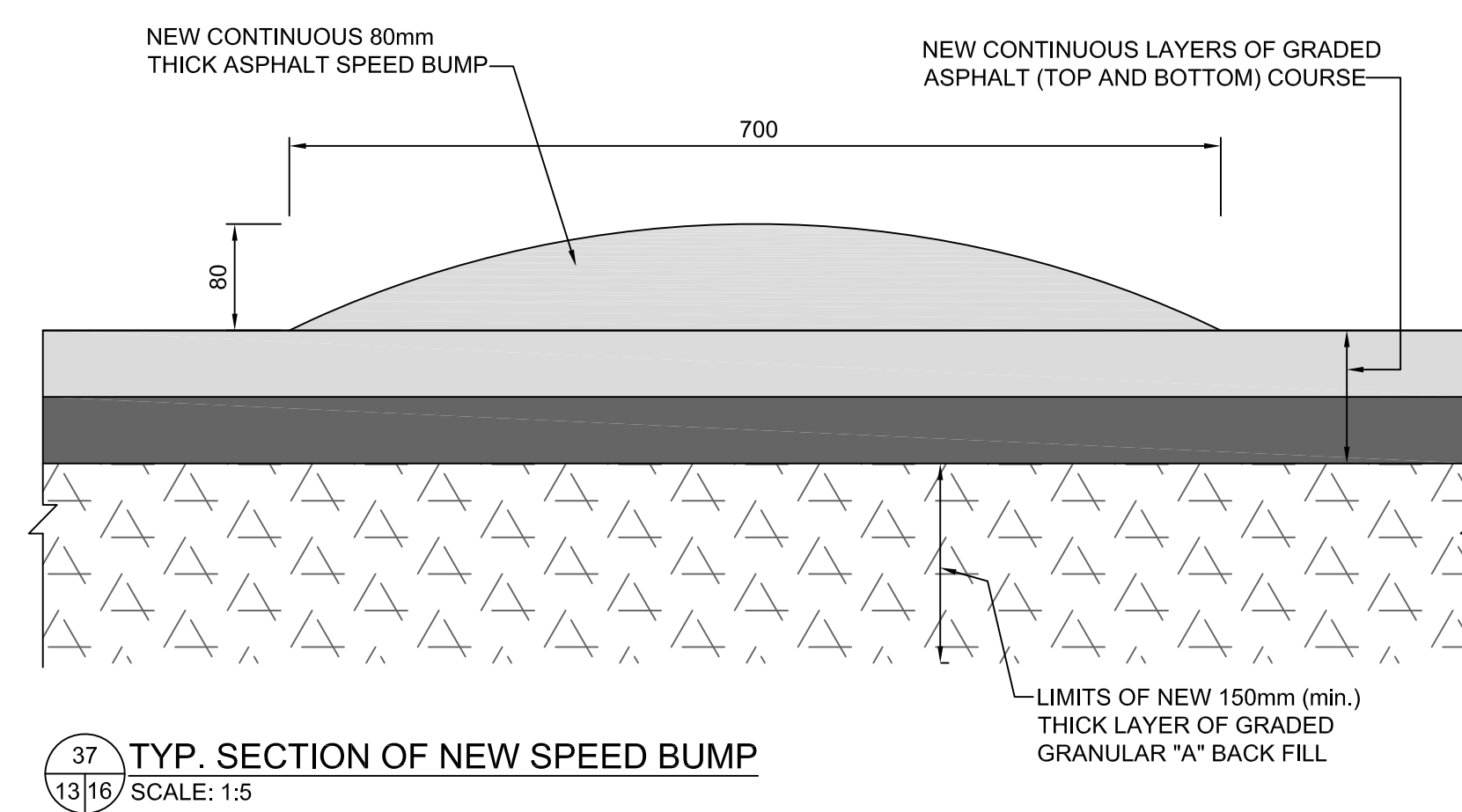
DRAWING NO.: MA-16 LOCATOR CODE: 140433-001



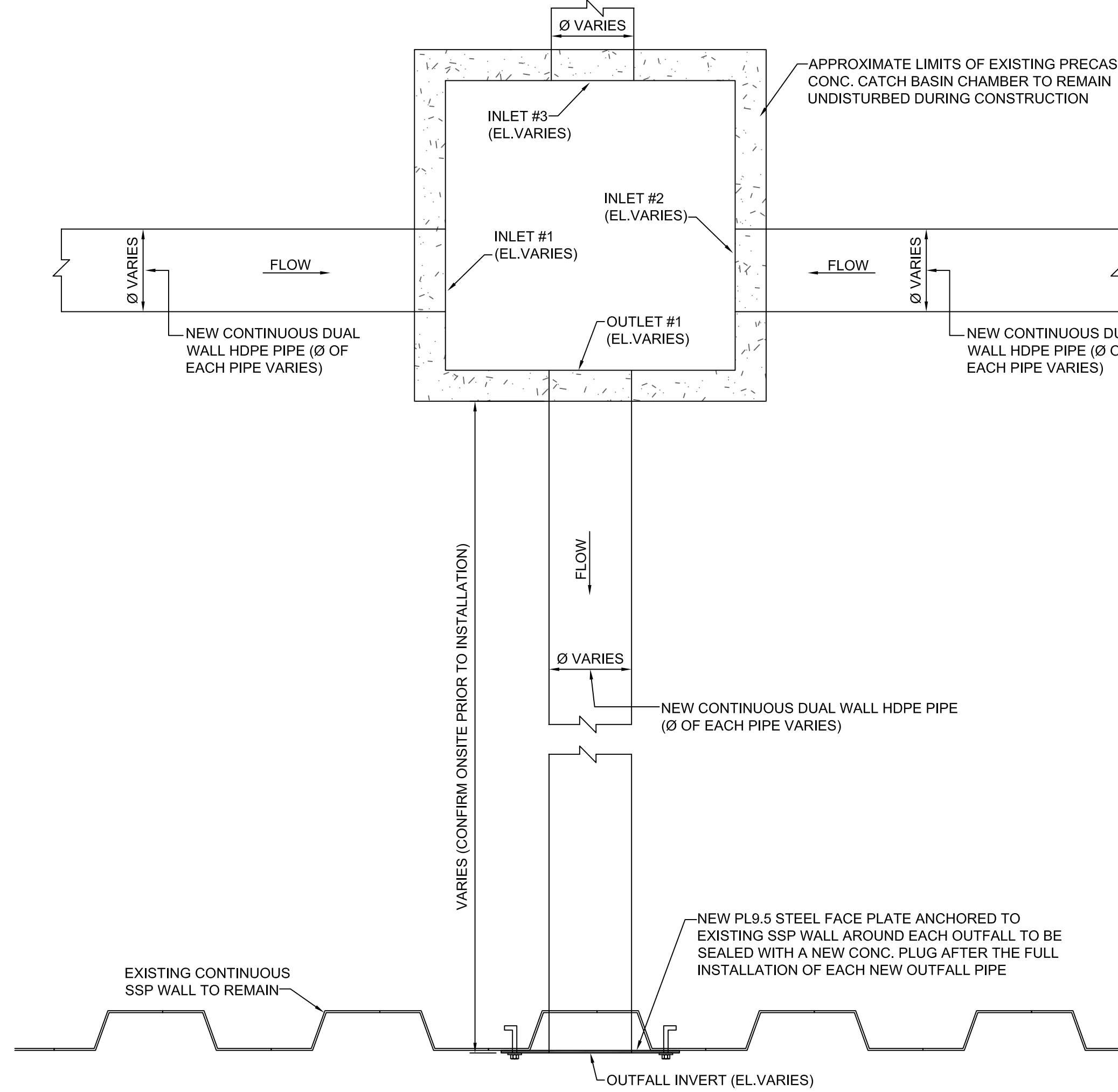
35 TYP. SECTION OF NEW OUTFALL PIPE REPLACEMENT
 SCALE: 1:10



36 TYP. OUTFALL PIPE REPAIR PLAN DETAIL (FISHERMENS BASIN)
 SCALE: 1:10



37 TYP. SECTION OF NEW SPEED BUMP
 SCALE: 1:5



CONFIGURATION LAYOUT OF NEW OUTFALL PIPE REPAIRS AND INVERT SCHEDULE REFERENCE
 SCALE: 1:15

DRAINAGE INVERT ELEVATION SCHEDULE								
ITEM ID	EXISTING TOP OF CATCH BASIN GRATE	INVERT ELEVATIONS (m)					CHAMBER INVERT ELEVATIONS	
		INLET #1	INLET #2	INLET #3	OUTLET #1	OUTFALL INVERT		
EXISTING CATCH BASIN	CB1	+2.05	n/a	n/a	n/a	+1.21	+0.90	+0.80
	CB2	+1.91	n/a	n/a	+0.71	+0.91	+0.83	+0.51±
	CB3	+1.95	n/a	n/a	+0.65	+0.90	+0.83	+0.35
	CB4	+1.79	+1.10	+1.09	n/a	+1.14	+0.99	UNKNOWN
	CB5	+2.44	n/a	+1.83	n/a	+1.74	+1.12	+0.78
	CB6	+2.59	+1.52	+1.56	n/a	+1.49	+1.13	+0.80
	CB7	+2.64	+1.79	+1.81	n/a	+1.79	+0.86	+0.84
	CB8	+1.48	n/a	n/a	n/a	+1.15	+1.09	+0.18
	CB9	UNKNOWN	n/a	n/a	n/a	n/a	+1.06	UNKNOWN

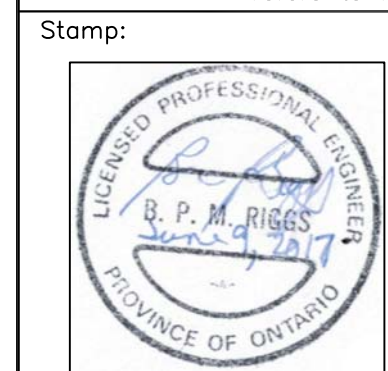
- NOTES:
- 1) ALL ELEVATIONS SHOWN ARE RELATIVE TO THE PROJECT BENCHMARK.
 - 2) EXISTING PIPE DIAMETERS ARE NOT SHOWN IN THIS SCHEDULE, REFER TO REFERENCE PLANS FOR APPROXIMATE EXISTING PIPE DIAMETERS.
 - 3) ALL SPECIFIED PIPE DIAMETERS SHOWN ON THE SITE PLANS ARE INSIDE DIAMETERS (I.D.).
 - 4) THE LOCATION OF CB9 IS NOT SHOWN IN THESE DRAWINGS AND WAS UNABLE TO BE LOCATED IN THE FIELD.

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NOTES:

REVISIONS:	DATE:

SCALE: AS NOTED CLASS:

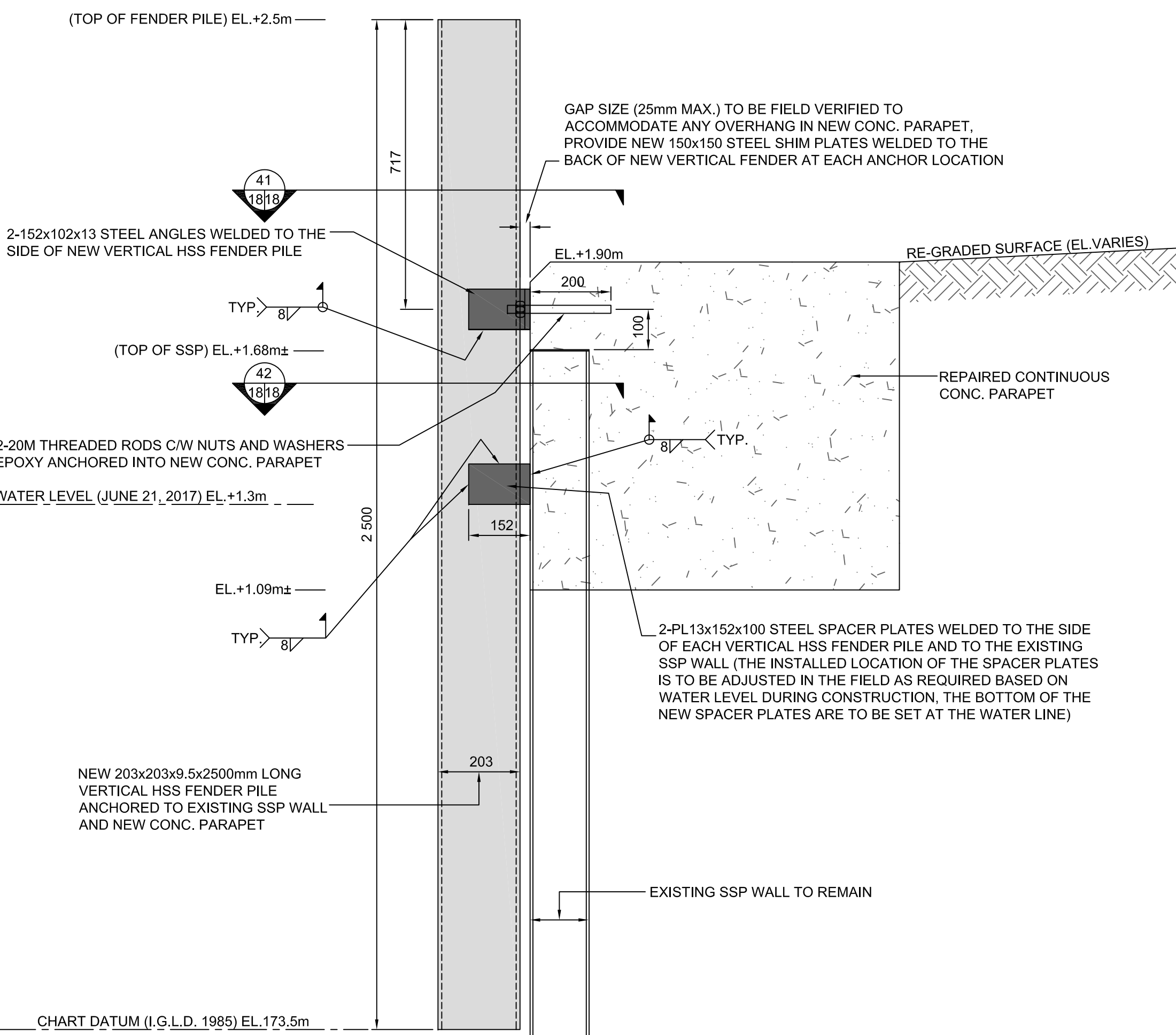
PROJECT: FISHERMEN'S BASIN JETTY REHABILITATION

DESCRIPTION: TYP. FENDER DETAILS (EAST WALL)

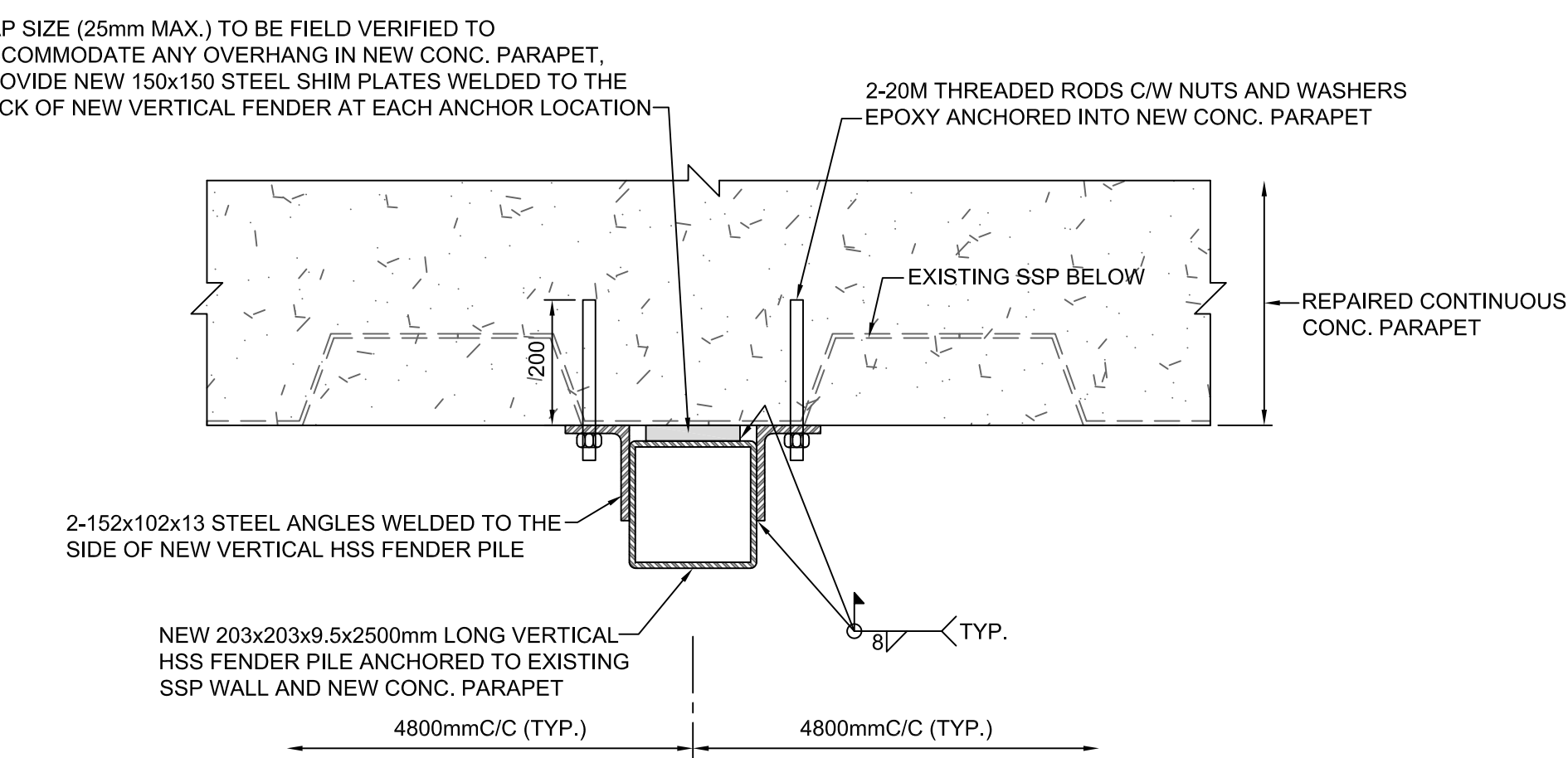
DRAWN: A.M	APPROVED: B.R.
DATE: 2016-03-31	DATE: 2016-03-31

LOCATION: PORT DOVER ONTARIO

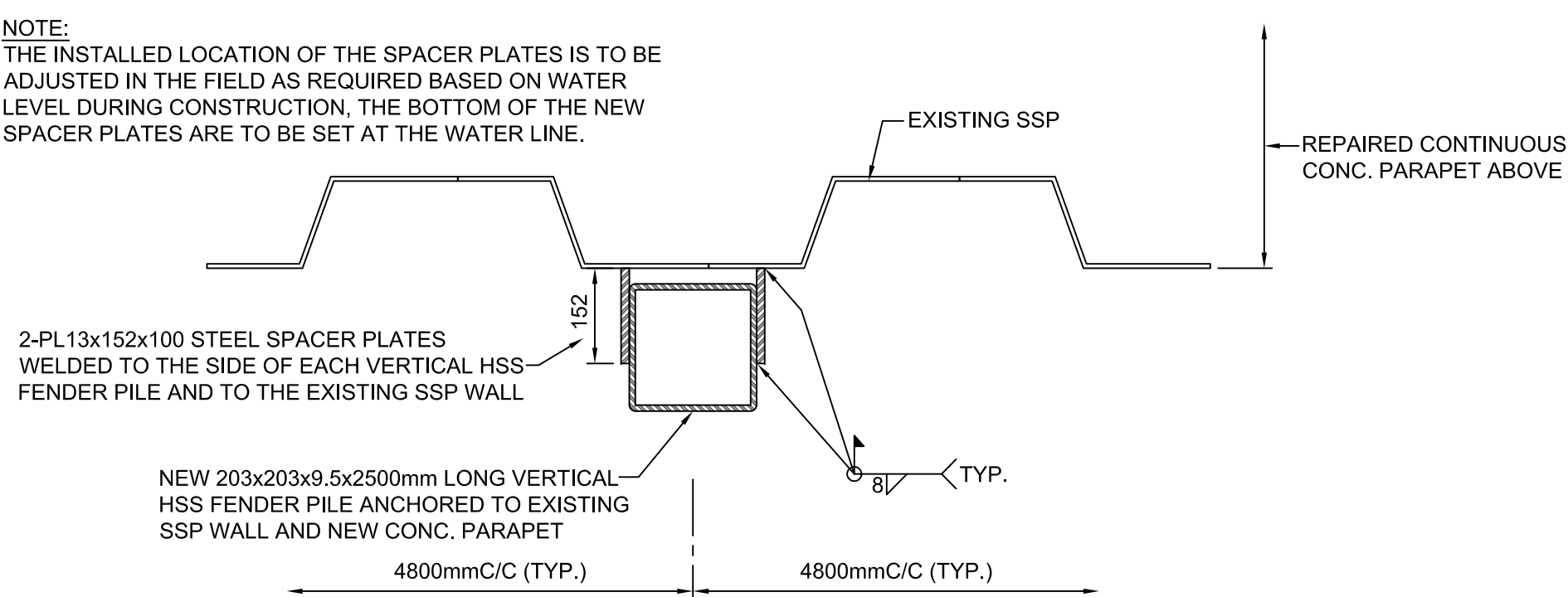
DRAWING NO.: MA-18	LOCATOR CODE: 140433-001
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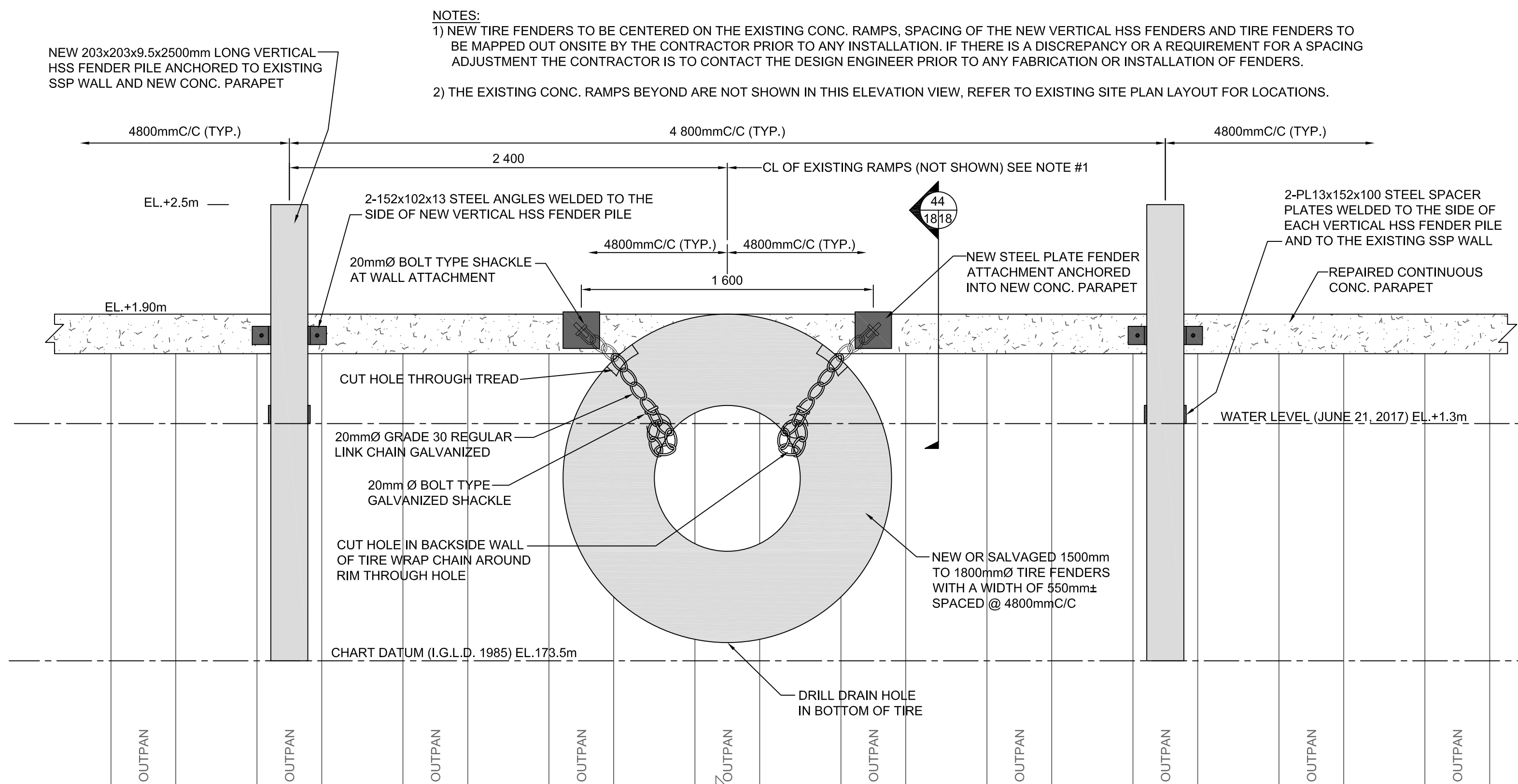
40 TYP. SECTION OF NEW VERTICAL FENDER (EAST WALL)
 SCALE: 1:10



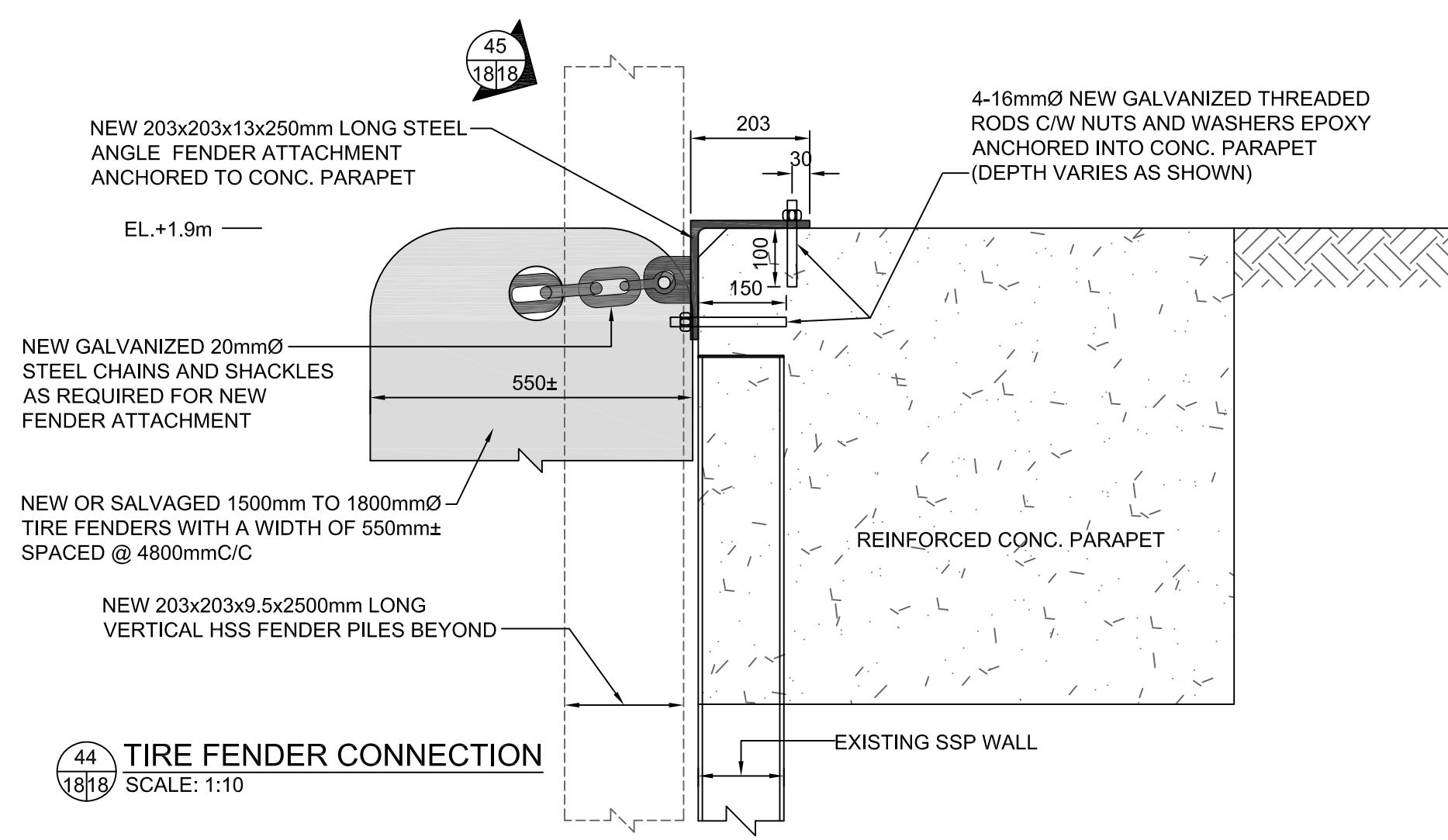
41 NEW VERTICAL FENDER TO CONC. PARAPET CONNECTION DETAIL (EAST WALL)
 SCALE: 1:10



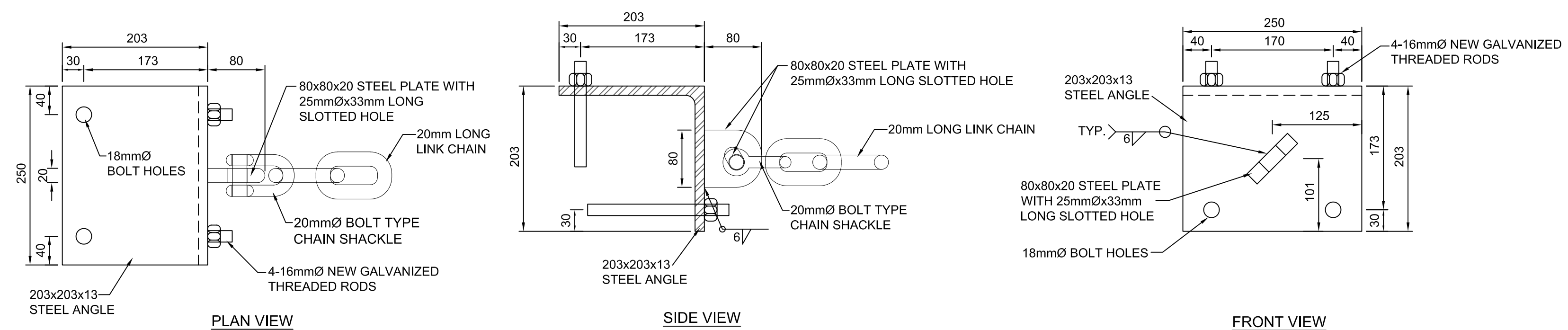
42 NEW VERTICAL FENDER TO SSP WALL CONNECTION DETAIL (EAST WALL)
 SCALE: 1:10



43 TYP. ELEVATION VIEW OF NEW TIRE FENDER (EAST WALL)
 SCALE: 1:20



44 TIRE FENDER CONNECTION
 SCALE: 1:10



45 STEEL ANGLE FENDER ATTACHMENT DETAIL
 SCALE: 1:5

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Stamp:



NOTES:

REVISIONS:	DATE:

SCALE: AS NOTED CLASS:

PROJECT:
**FISHERMEN'S BASIN
JETTY REHABILITATION**

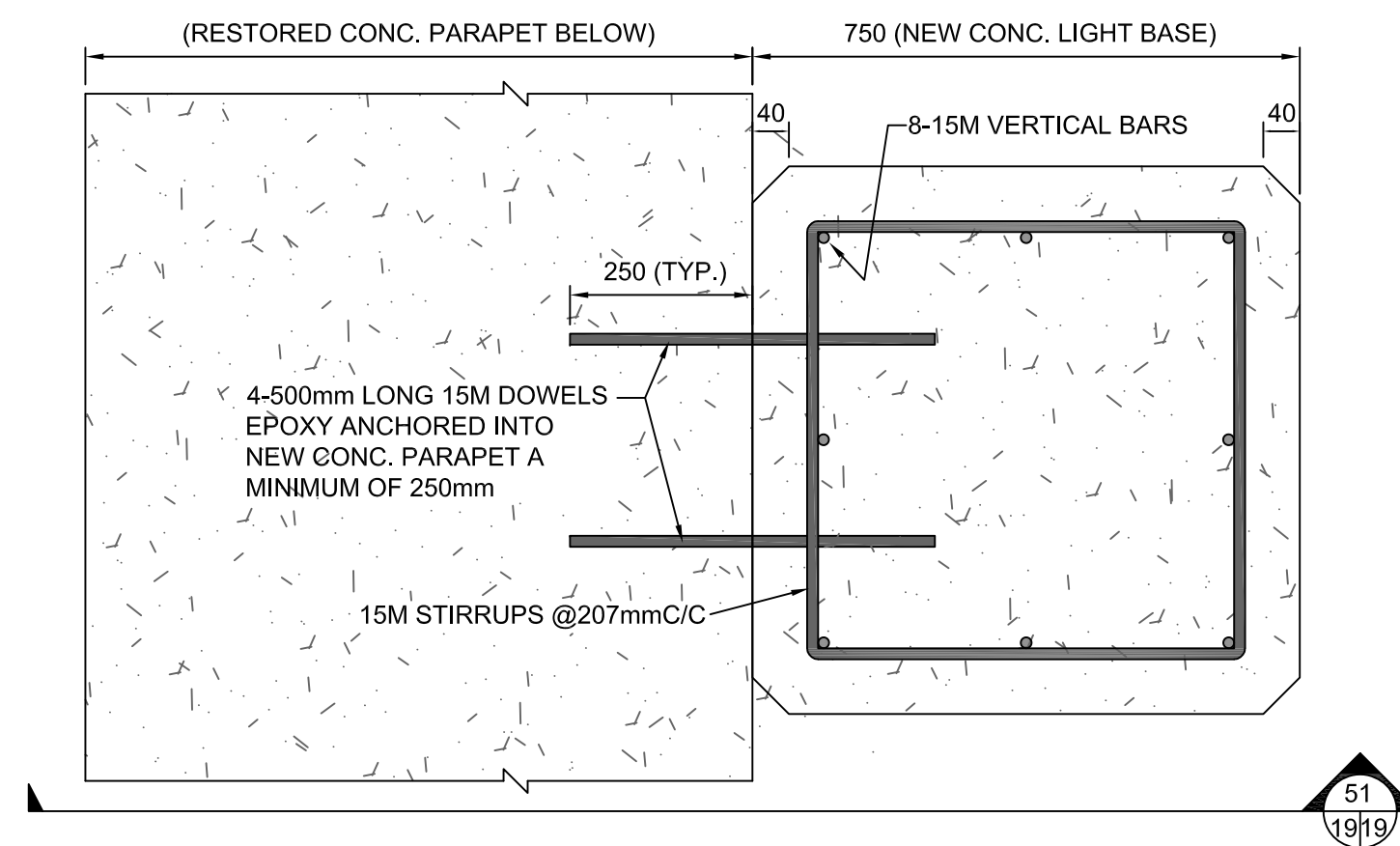
DESCRIPTION:
**TYP. LIGHT BASE DETAILS
(EAST WALL)**

DRAWN: **A.M** APPROVED: **B.R.**

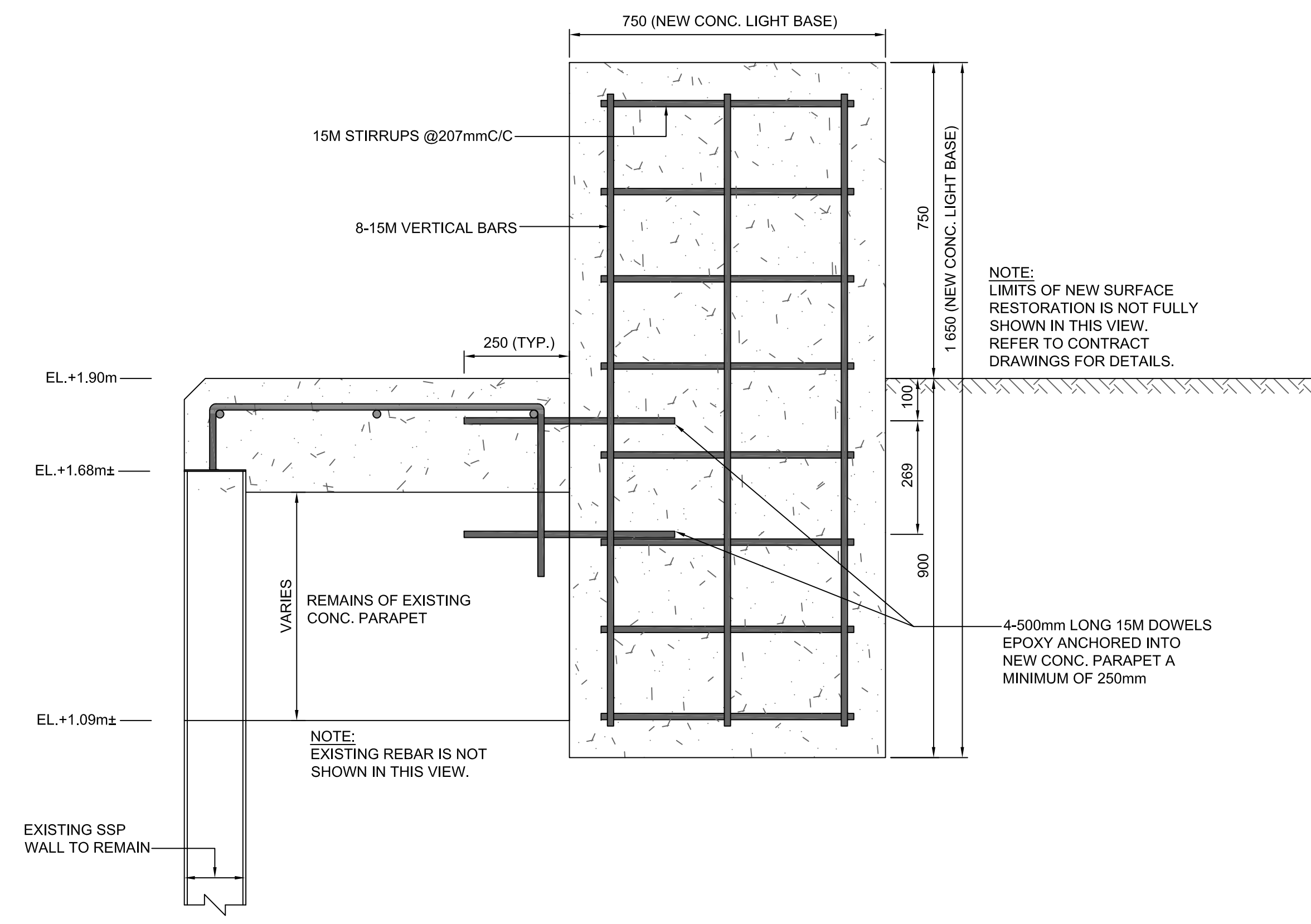
DATE: **2016-03-31** DATE: **2016-03-31**

LOCATION:
**PORT DOVER
ONTARIO**

DRAWING NO.: **MA-19** LOCATOR CODE: **140433-001**



50
17/19 TYP. SECTION OF NEW CONC. BASE FOR LIGHT POLE (EAST WALL)
SCALE: 1:10



51
19/19 TYP. SECTION OF NEW CONC. BASE FOR LIGHT POLE (EAST WALL)
SCALE: 1:10



- 1 Detail No.
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- 3 drawing no. - where detailed refers to MA-

Stamp:

NOTES:

REVISIONS:	DATE:

SCALE: AS NOTED	CLASS:
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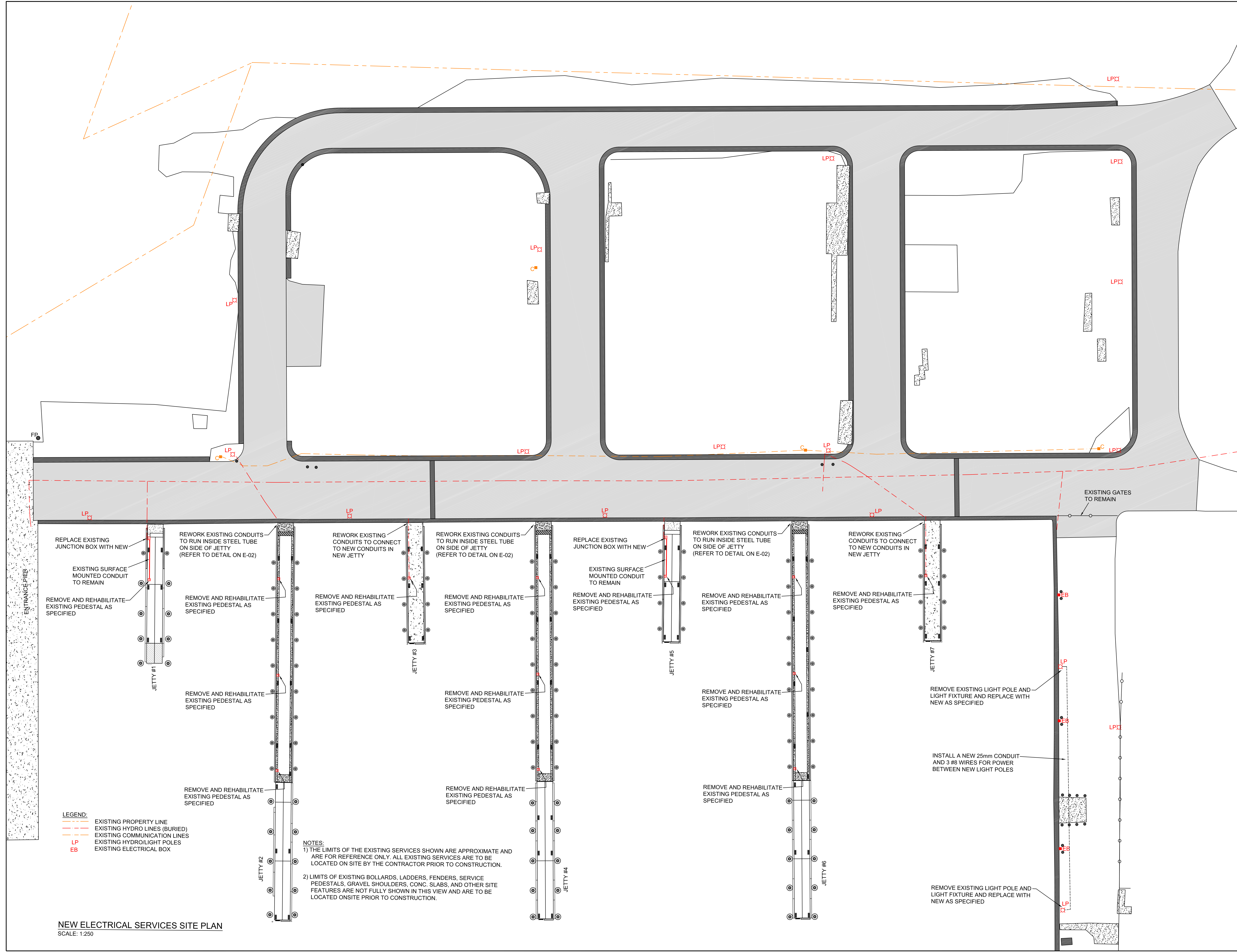
PROJECT:
**FISHERMEN'S BASIN
JETTY REHABILITATION**

DESCRIPTION:
**SITE PLAN OF NEW
ELECTRICAL WORK**

DRAWN: TT	APPROVED: TT
DATE: 2016-03-31	DATE: 2016-03-31

LOCATION:
**PORT DOVER
ONTARIO**

DRAWING NO.: E-01	LOCATOR CODE: 140433-001
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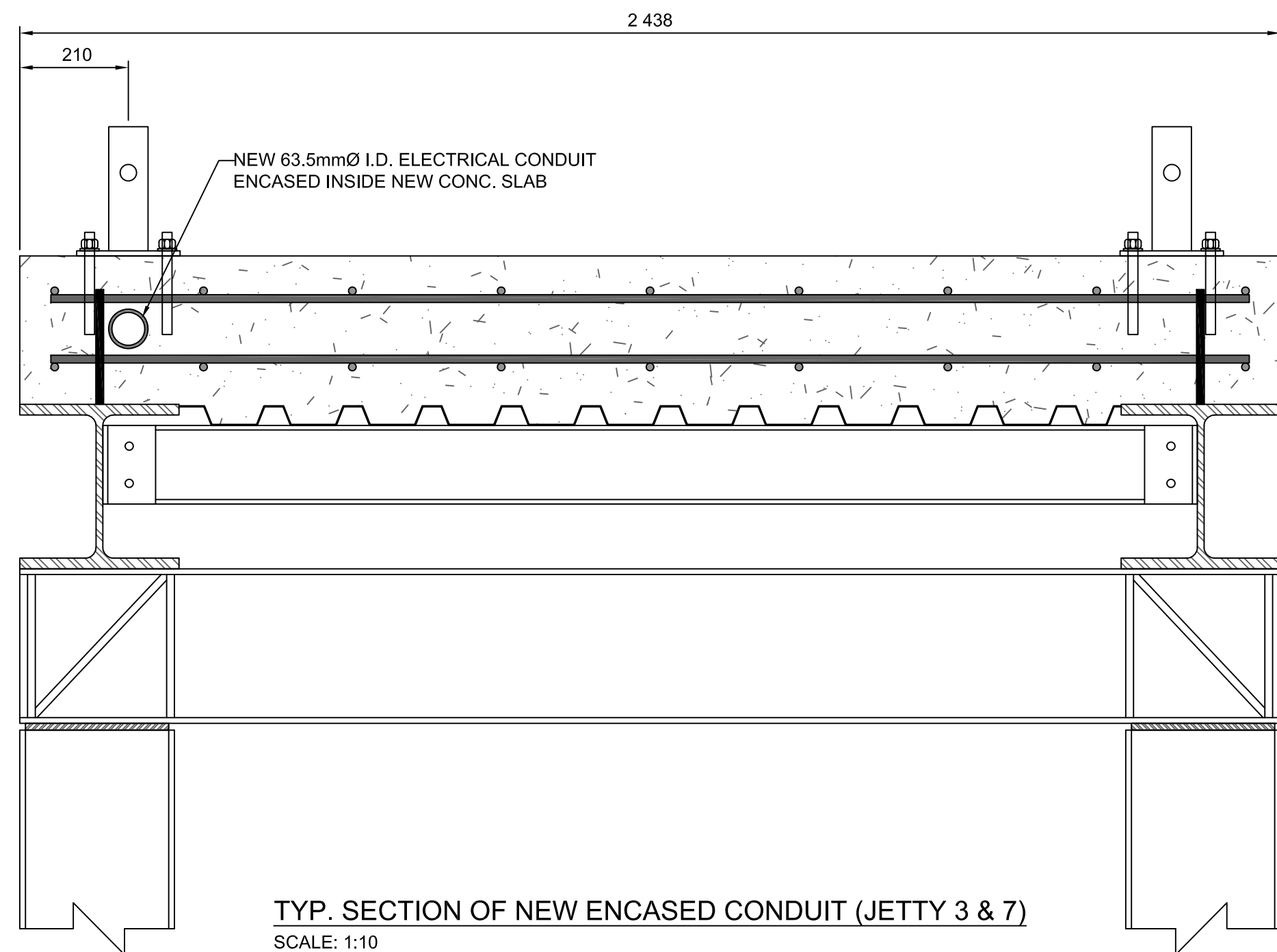


LEGEND:
 - - - EXISTING PROPERTY LINE
 - - - EXISTING HYDRO LINES (BURIED)
 - - - EXISTING COMMUNICATION LINES
 LP EXISTING HYDRO/LIGHT POLES
 EB EXISTING ELECTRICAL BOX

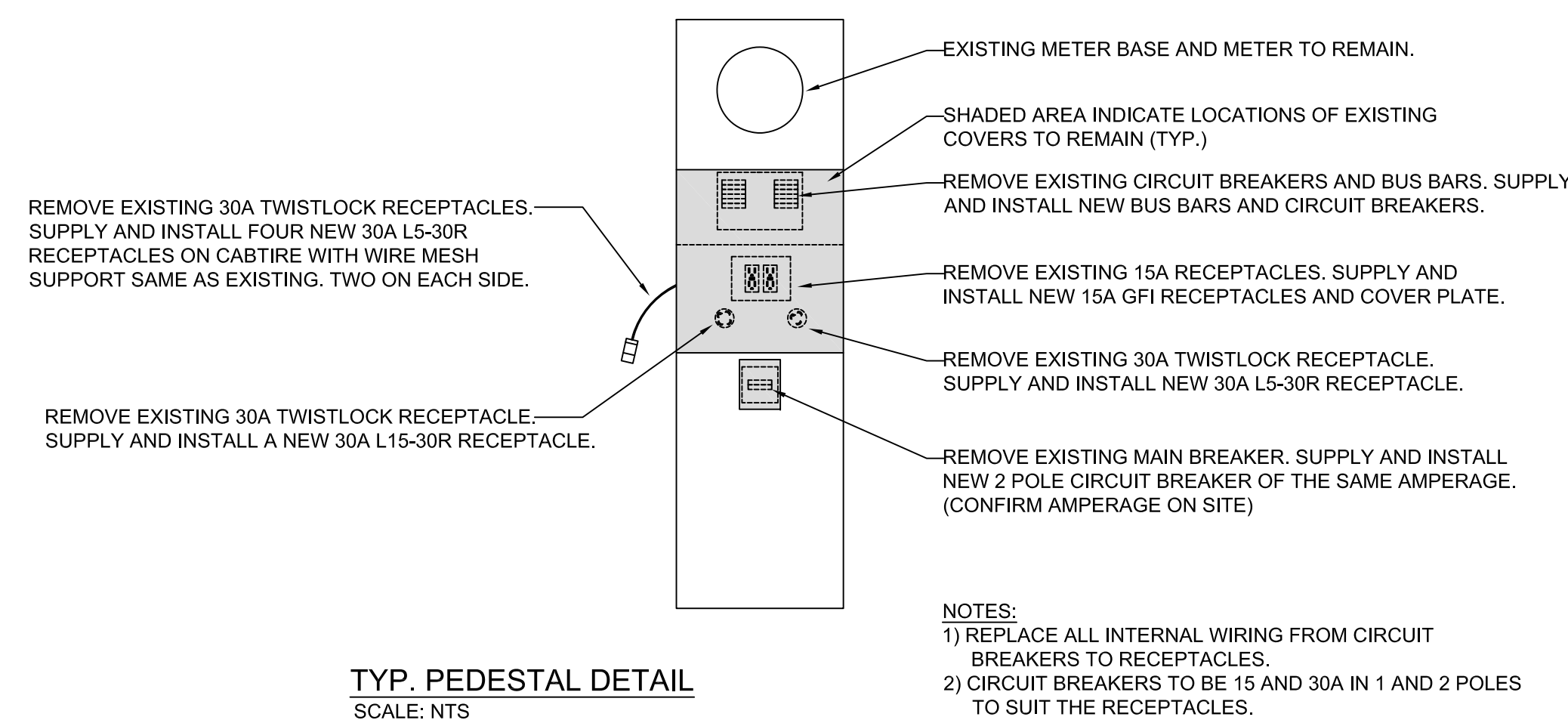
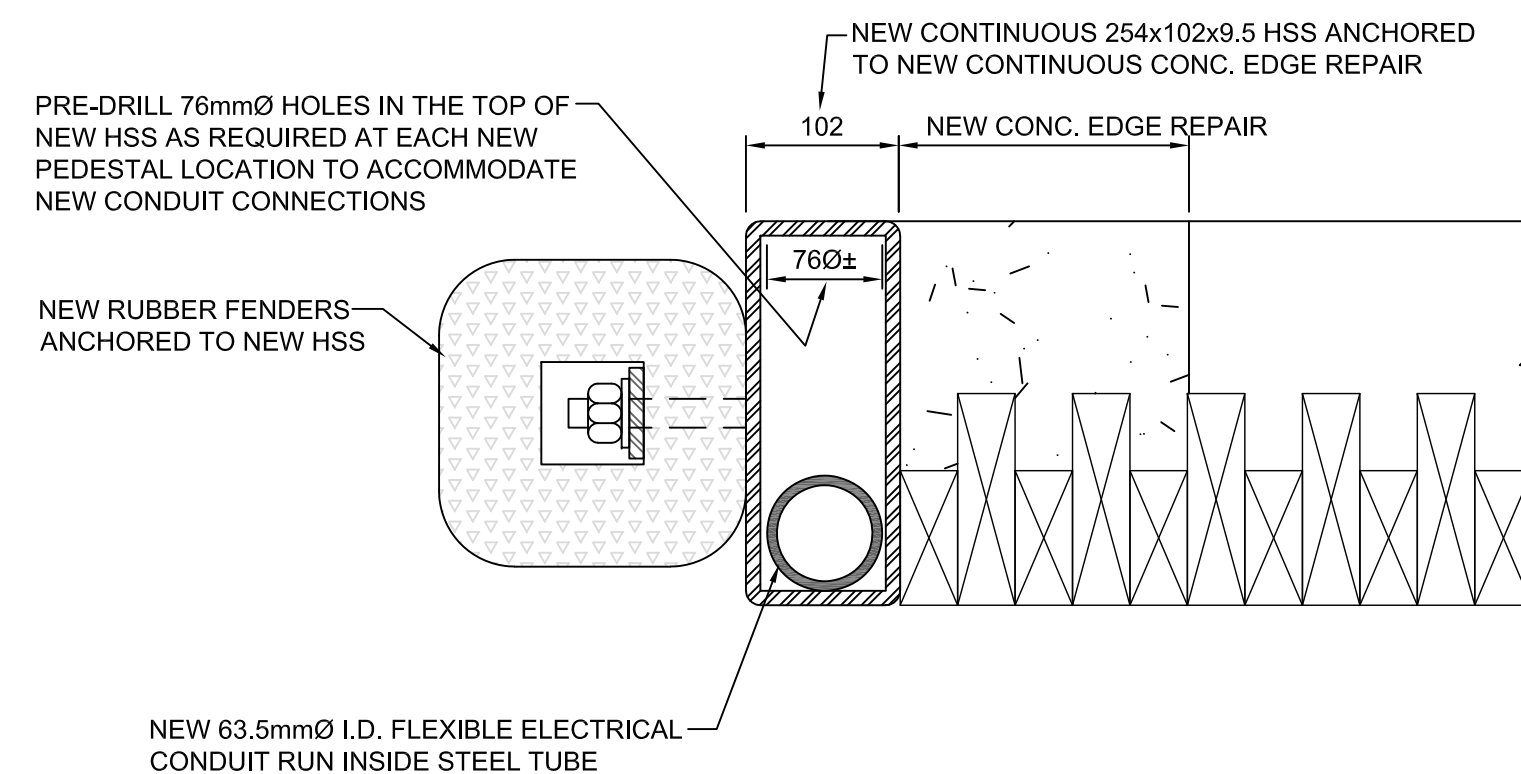
NOTES:
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 2) LIMITS OF EXISTING BOLLARDS, LADDERS, FENDERS, SERVICE PEDESTALS, GRAVEL SHOULDERS, CONC. SLABS, AND OTHER SITE FEATURES ARE NOT FULLY SHOWN IN THIS VIEW AND ARE TO BE LOCATED ONSITE PRIOR TO CONSTRUCTION.

NEW ELECTRICAL SERVICES SITE PLAN
SCALE: 1:250

WEST SIDE



EAST SIDE



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- 3 drawing no. - where detailed refers to MA-

Stamp:

NOTES:

REVISIONS:	DATE:

SCALE: AS NOTED CLASS:

PROJECT:
FISHERMEN'S BASIN JETTY REHABILITATION

DESCRIPTION:
TYP. ELECTRICAL DETAILS

DRAWN: TT APPROVED: TT

DATE: 2016-03-31 DATE: 2016-03-31

LOCATION:
PORT DOVER ONTARIO

DRAWING NO.: E-02 LOCATOR CODE: 140433-001