

# HARBOUR IMPROVEMENTS RONDEAU (ERIEAU)

RONDEAU (ERIEAU), ONTARIO

SMALL CRAFT HARBOURS  
 CENTRAL AND ARCTIC REGION



Riggs Engineering Ltd.  
 1240 Commissioners Rd. W, Suite 205  
 London, Ontario,  
 N6K 1C7  
 Tel: (519) 657-1040  
 Fax: (519) 657 8631  
 Website: www.riggsengineering.com

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

Stamp:



NOTES:

REVISIONS:	DATE:
0 ISSUED FOR TENDER	MAY 27, 2013

SCALE: AS NOTED	CLASS:
-----------------	--------

PROJECT: HARBOUR IMPROVEMENTS RONDEAU (ERIEAU)

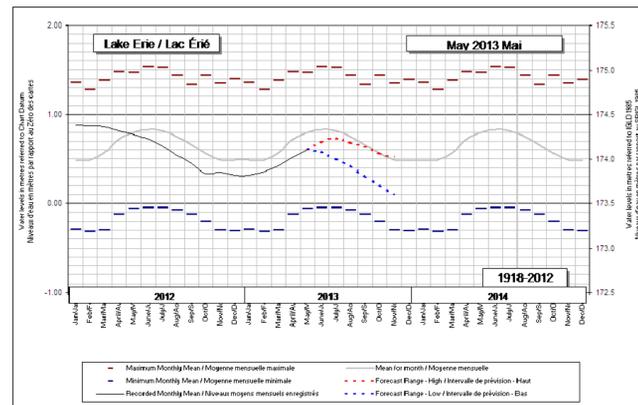
DESCRIPTION: WEST PIER EXISTING CONDITIONS AND REMOVALS

DRAWN: A.M	APPROVED: P.L.
DATE: 2013-05-27	DATE: 2013-05-27

LOCATION: ERIEAU (RONDEAU BAY) ONTARIO

DRAWING NO.: MA-01	LOCATOR CODE: 720172
--------------------	----------------------

## WATER LEVEL CHART



CURRENT INFORMATION CAN BE FOUND AT: [http://www.waterlevels.gc.ca/C&A/bulletin\\_e.html](http://www.waterlevels.gc.ca/C&A/bulletin_e.html)

INFORMATION OBTAINED FROM MONTHLY WATER LEVEL BULLETIN GREAT LAKES AND MONTREAL HARBOUR CANADIAN HYDROGRAPHIC SERVICE.

## DRAWING INDEX:

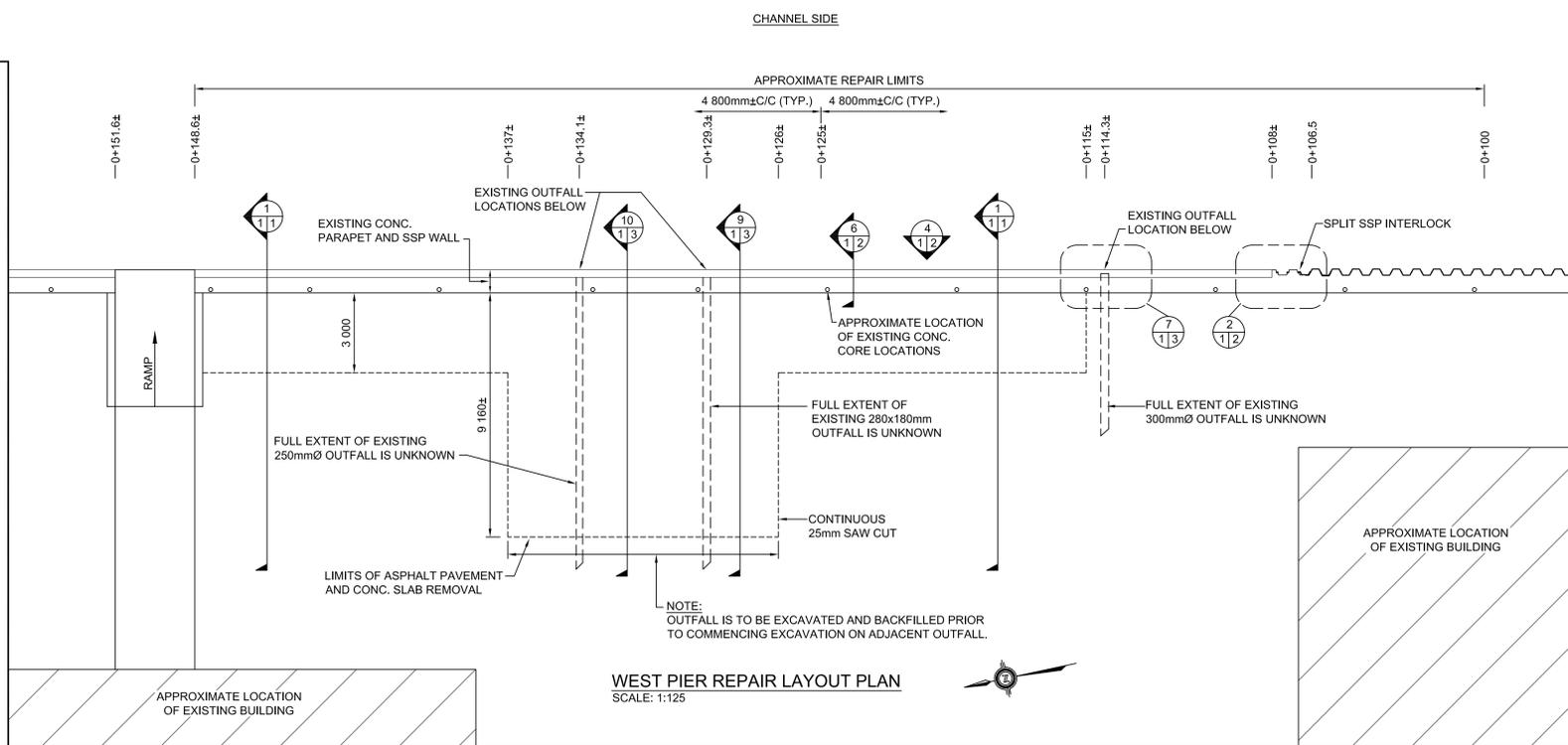
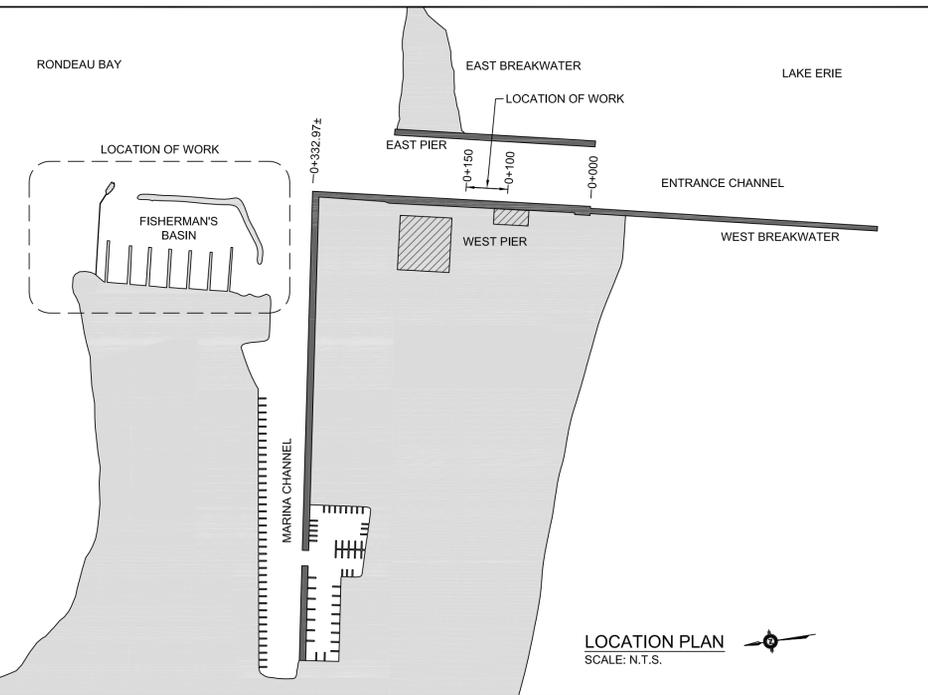
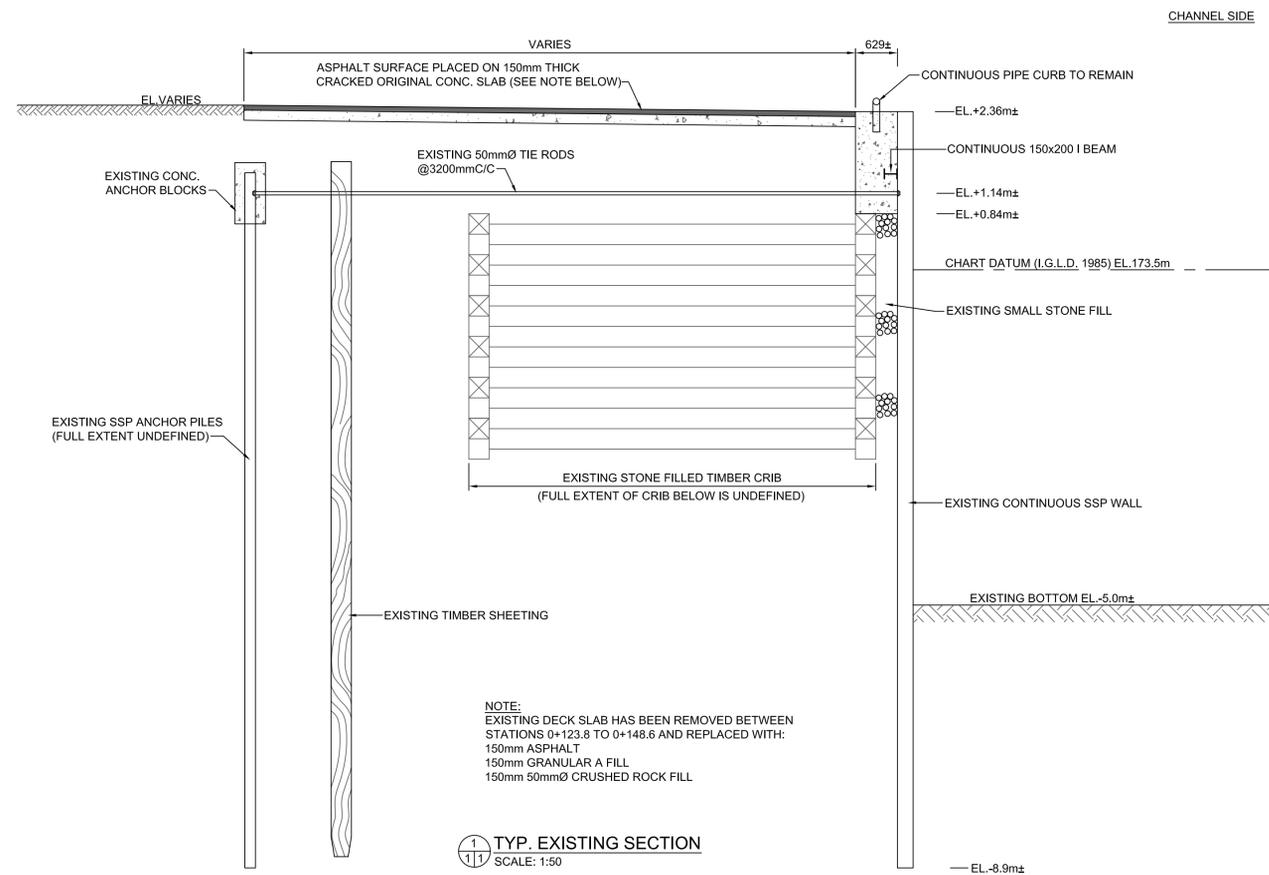
MA-01 - WEST PIER EXISTING CONDITIONS AND REMOVALS

MA-02 - WEST PIER REPAIR DETAILS

MA-03 - WEAT PIER OUTFALL REPAIR DETAILS

MA-04 - FISHERMAN'S BASIN EXISTING CONDITIONS AND REMOVALS

MA-05 - FISHERMAN'S BASIN TYP. DETAILS

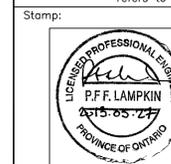


SMALL CRAFT HARBOURS  
 CENTRAL AND ARCTIC REGION



Riggs Engineering Ltd.  
 1240 Commissioners Rd. W, Suite 205  
 London, Ontario,  
 N6K 1C7  
 Tel: (519) 657-1040  
 Fax: (519) 657 8631  
 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:
0 ISSUED FOR TENDER	MAY 27, 2013

SCALE: AS NOTED CLASS:

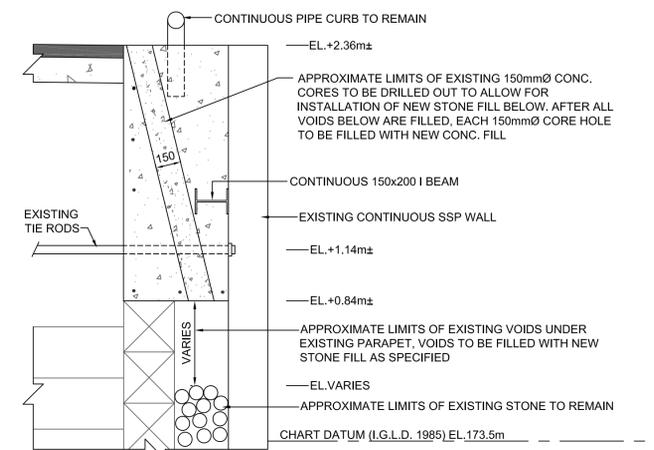
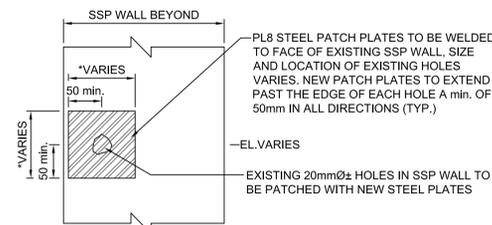
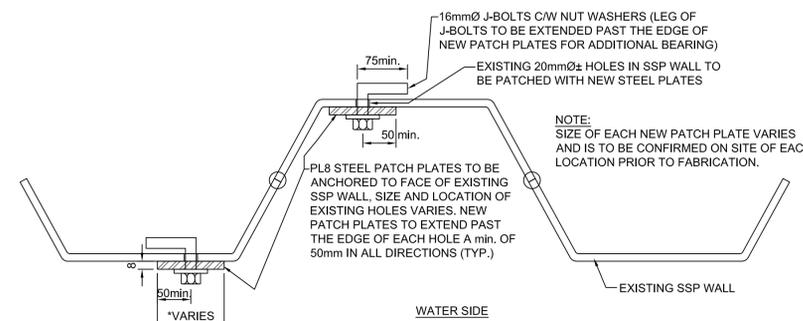
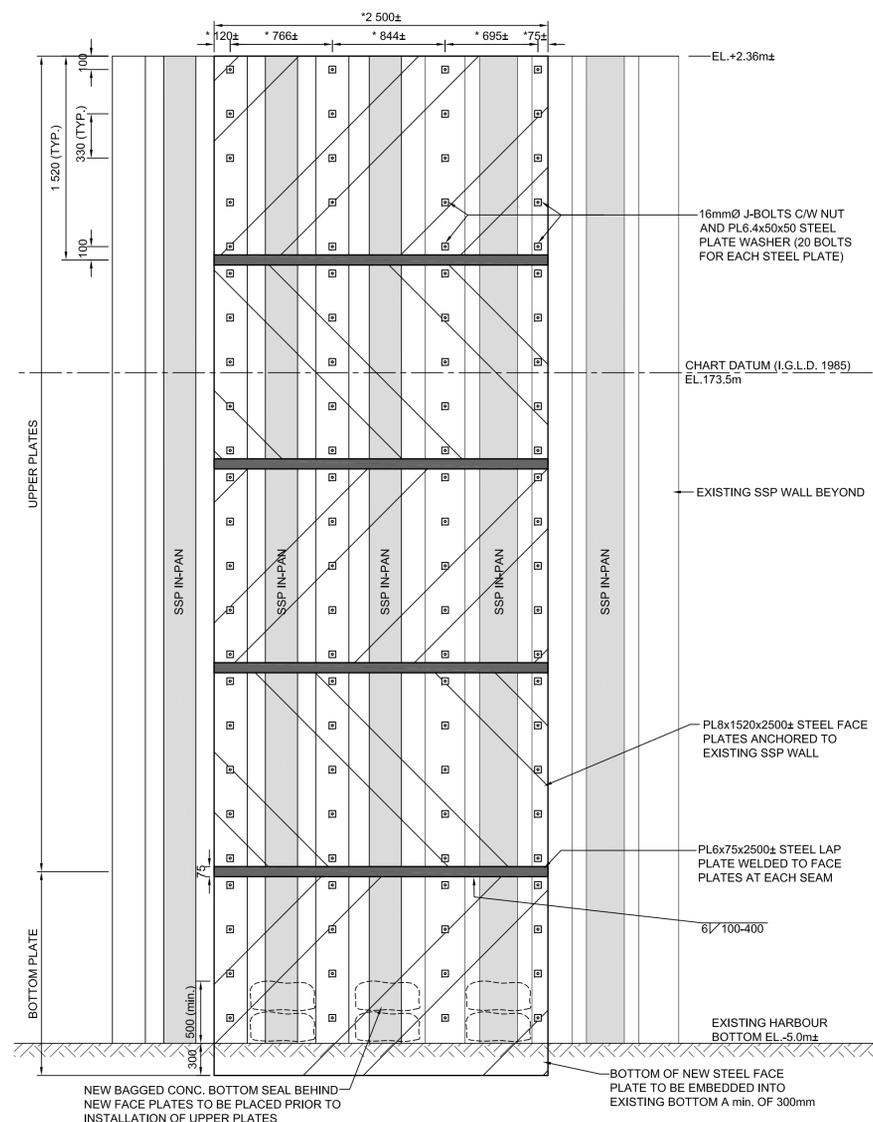
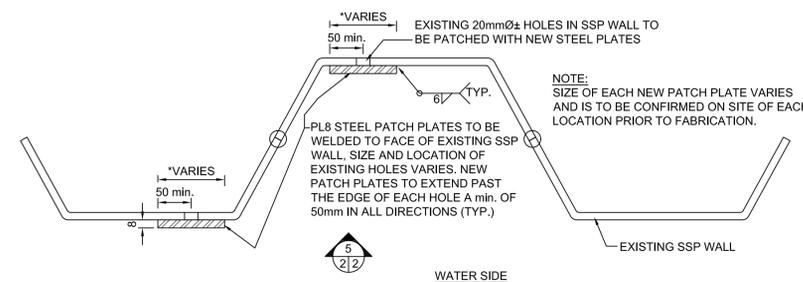
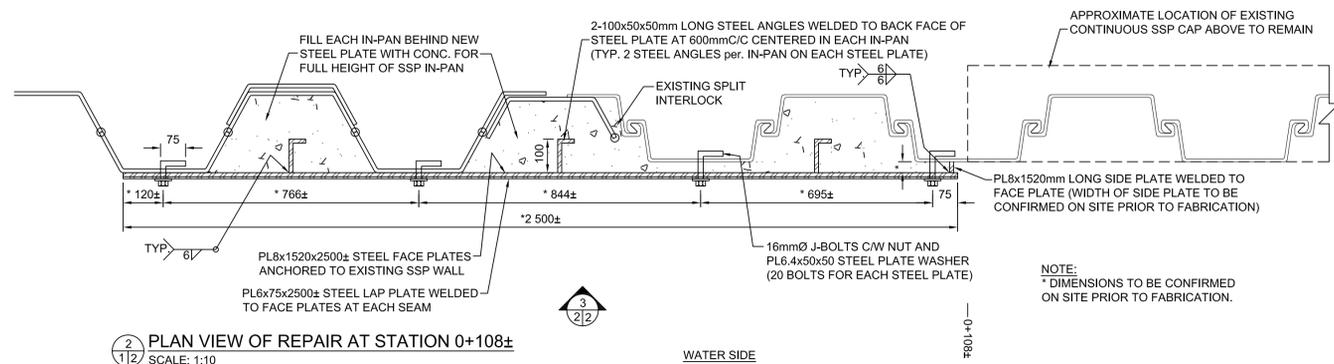
PROJECT:  
**HARBOUR IMPROVEMENTS  
 RONDEAU (ERIEAU)**

DESCRIPTION:  
**WEST PIER REPAIR  
 DETAILS**

DRAWN: <b>A.M</b>	APPROVED: <b>P.L.</b>
DATE: <b>2013-05-27</b>	DATE: <b>2013-05-27</b>

LOCATOR:  
**ERIEAU (RONDEAU BAY)  
 ONTARIO**

DRAWING NO.: <b>MA-02</b>	LOCATOR CODE: <b>720172</b>
------------------------------	--------------------------------



NOTE:  
 1) \* DIMENSIONS TO BE CONFIRMED ON SITE PRIOR TO FABRICATION.  
 2) STEEL ANGLES WELDED TO BACK OF NEW STEEL FACE PLATES ARE NOT SHOWN IN THIS VIEW.

**3 ELEVATION OF REPAIR AT STATION 0+108±**  
 SCALE: 1:25

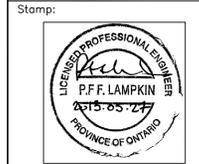
2/2

SMALL CRAFT HARBOURS  
 CENTRAL AND ARCTIC REGION



Riggs Engineering Ltd.  
 1240 Commissioners Rd. W., Suite 205  
 London, Ontario,  
 N6K 1C7  
 Tel: (519) 657-1040  
 Fax: (519) 657 8631  
 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:
0 ISSUED FOR TENDER	MAY 27, 2013

SCALE: AS NOTED CLASS:

PROJECT:  
 HARBOUR IMPROVEMENTS  
 RONDEAU (ERIEAU)

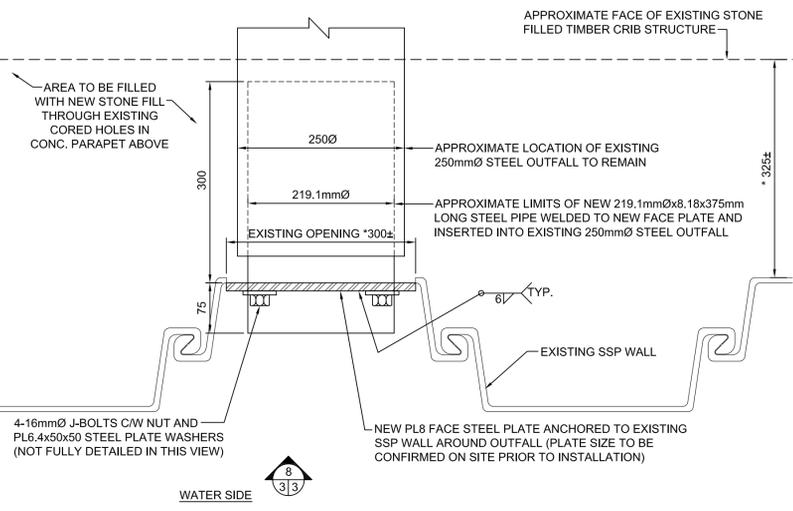
DESCRIPTION:  
 WEST PIER OUTFALL  
 REPAIR DETAILS

DRAWN: A.M APPROVED: P.L.

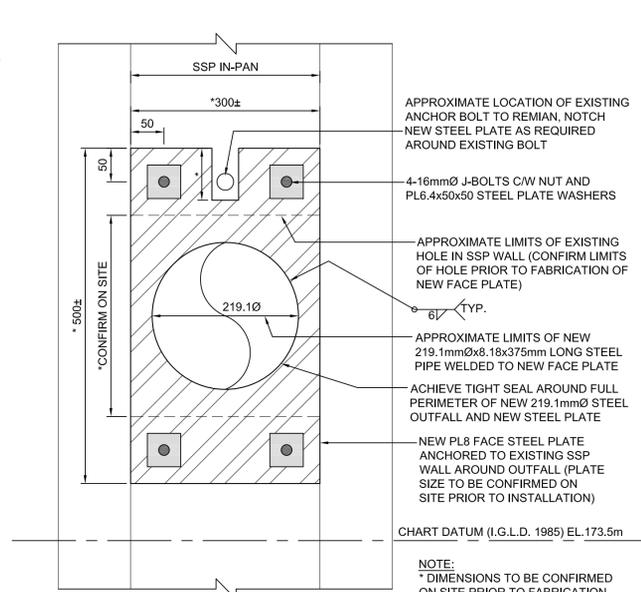
DATE: 2013-05-27 DATE: 2013-05-27

LOCATION:  
 ERIEAU (RONDEAU BAY)  
 ONTARIO

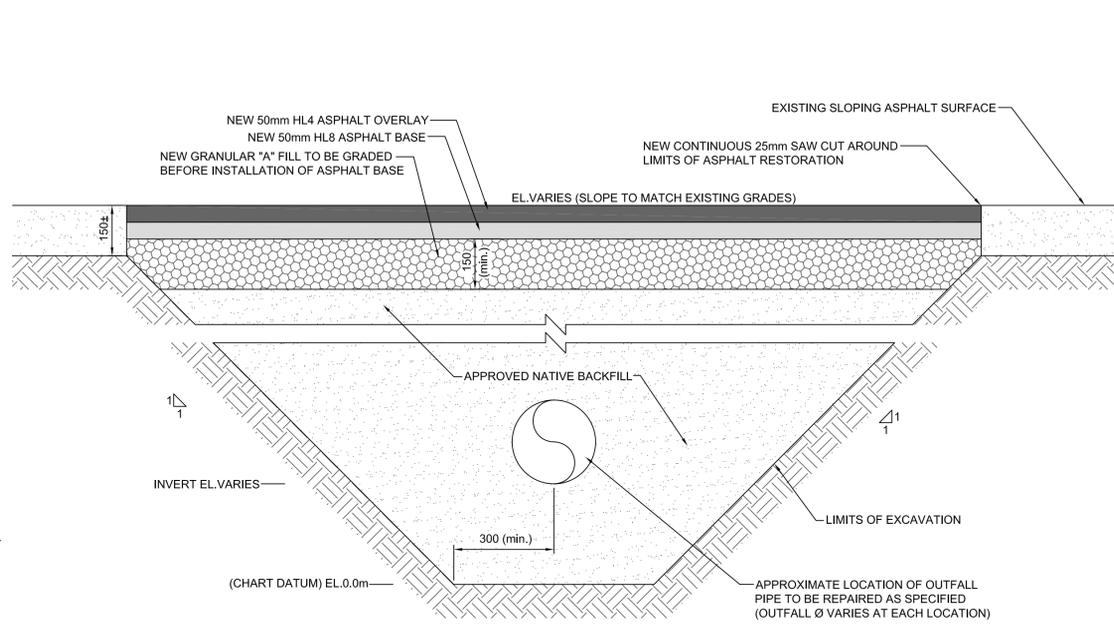
DRAWING NO.: MA-03 LOCATOR CODE: 720172



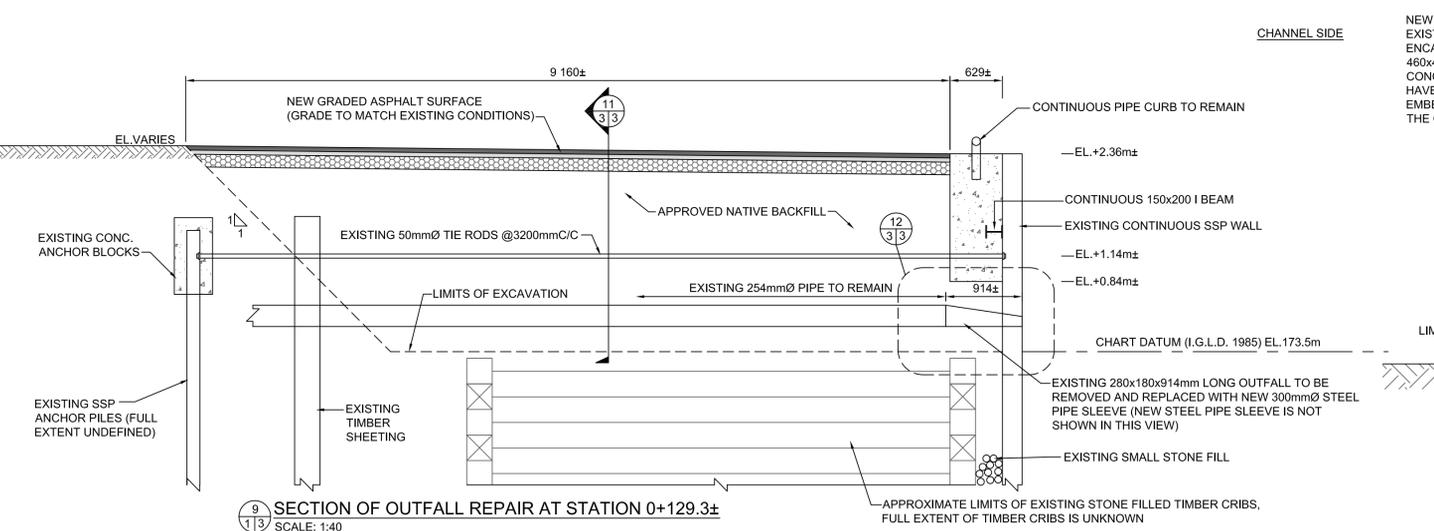
7 PLAN VIEW OF OUTFALL REPAIR AT STATION 0+114.3±  
 SCALE: 1:5



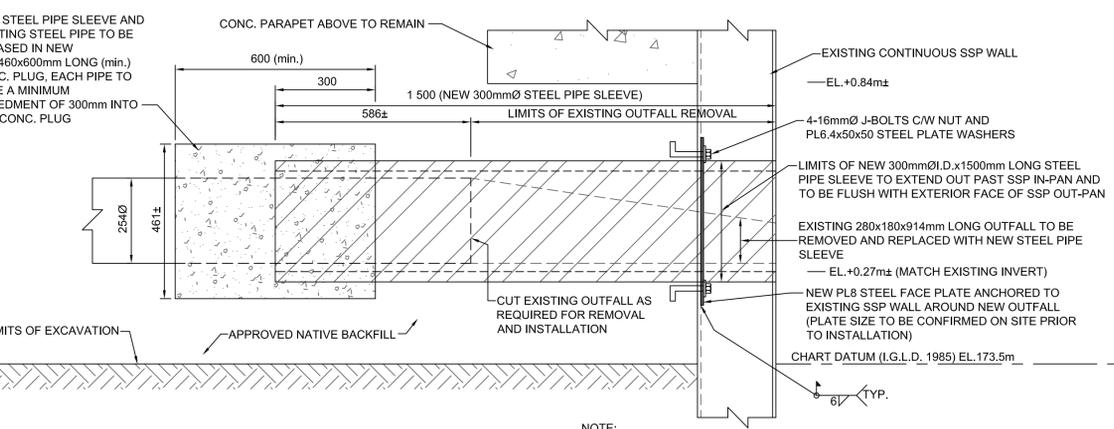
8 ELEVATION OF OUTFALL REPAIR AT STATION 0+114.3±  
 SCALE: 1:5



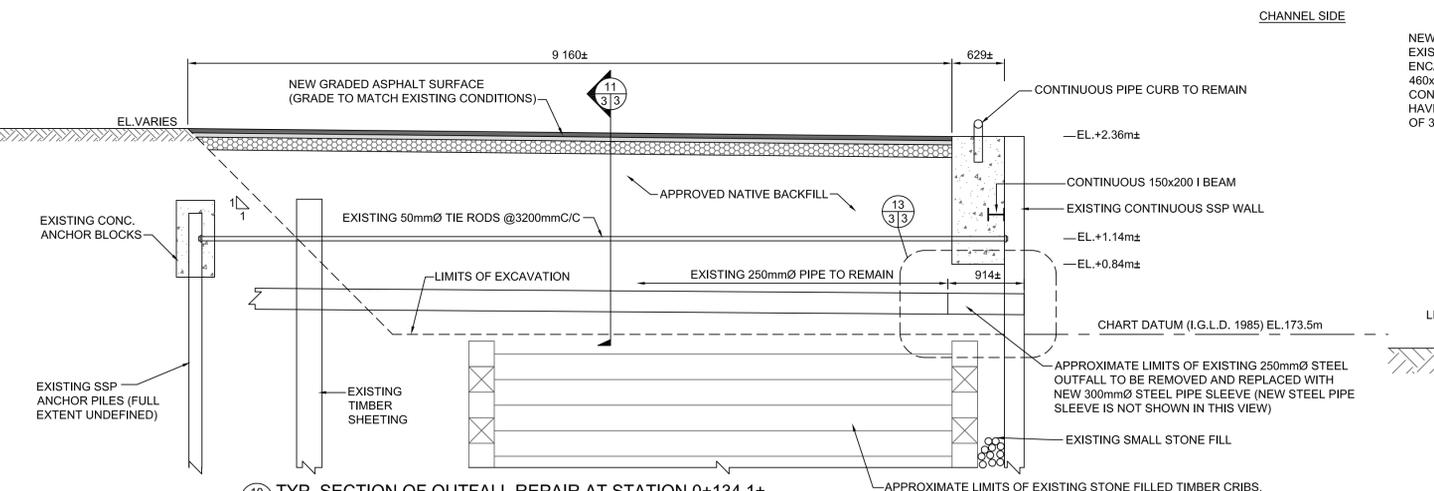
11 TYP. ASPHALT RESTORATION DETAIL FOR OUTFALL EXCAVATIONS  
 SCALE: 1:10



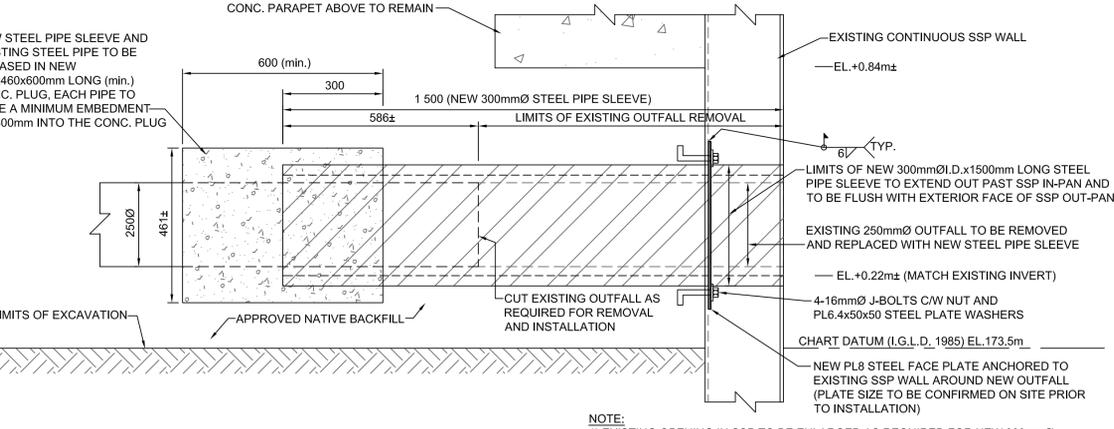
9 SECTION OF OUTFALL REPAIR AT STATION 0+129.3±  
 SCALE: 1:40



12 DETAIL OF OUTFALL REPAIR AT STATION 0+129.3±  
 SCALE: 1:10



10 TYP. SECTION OF OUTFALL REPAIR AT STATION 0+134.1±  
 SCALE: 1:40



13 DETAIL OF OUTFALL REPAIR AT STATION 0+134.1±  
 SCALE: 1:10

NOTE:  
 1) EXISTING OPENING IN SSP TO BE ENLARGED AS REQUIRED FOR NEW 300mmØ STEEL PIPE SLEEVE.  
 2) ANY GAPS BETWEEN NEW STEEL PIPE SLEEVE AND EXISTING SSP WALL ARE TO BE COMPLETELY SEALED WITH NEW STEEL FACE PLATE ANCHORED TO EXISTING SSP WALL. SIZE AND LOCATION OF EACH PL8 FACE PLATE MAY VARY AND WILL BE BASED ON ACTUAL MEASUREMENTS. PROVIDE SHOP DRAWINGS TO ENGINEER PRIOR TO REPAIRING EACH OUTFALL.

SMALL CRAFT HARBOURS  
 CENTRAL AND ARCTIC REGION



Riggs Engineering Ltd.  
 1240 Commissioners Rd. W, Suite 205  
 London, Ontario, N6K 1C7  
 Tel: (519) 657-1040  
 Fax: (519) 657 8631  
 Website: www.riggsengineering.com

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

Stamp:



LEGEND:

- HP ○ EXISTING HYDRO POLE
- LS ○ EXISTING LIGHT STANDARD
- DP □ EXISTING DISTRIBUTION PANEL
- EXISTING CHAINLINK FENCE

REVISIONS:	DATE:
0 ISSUED FOR TENDER	MAY 27, 2013

SCALE: AS NOTED	CLASS:
-----------------	--------

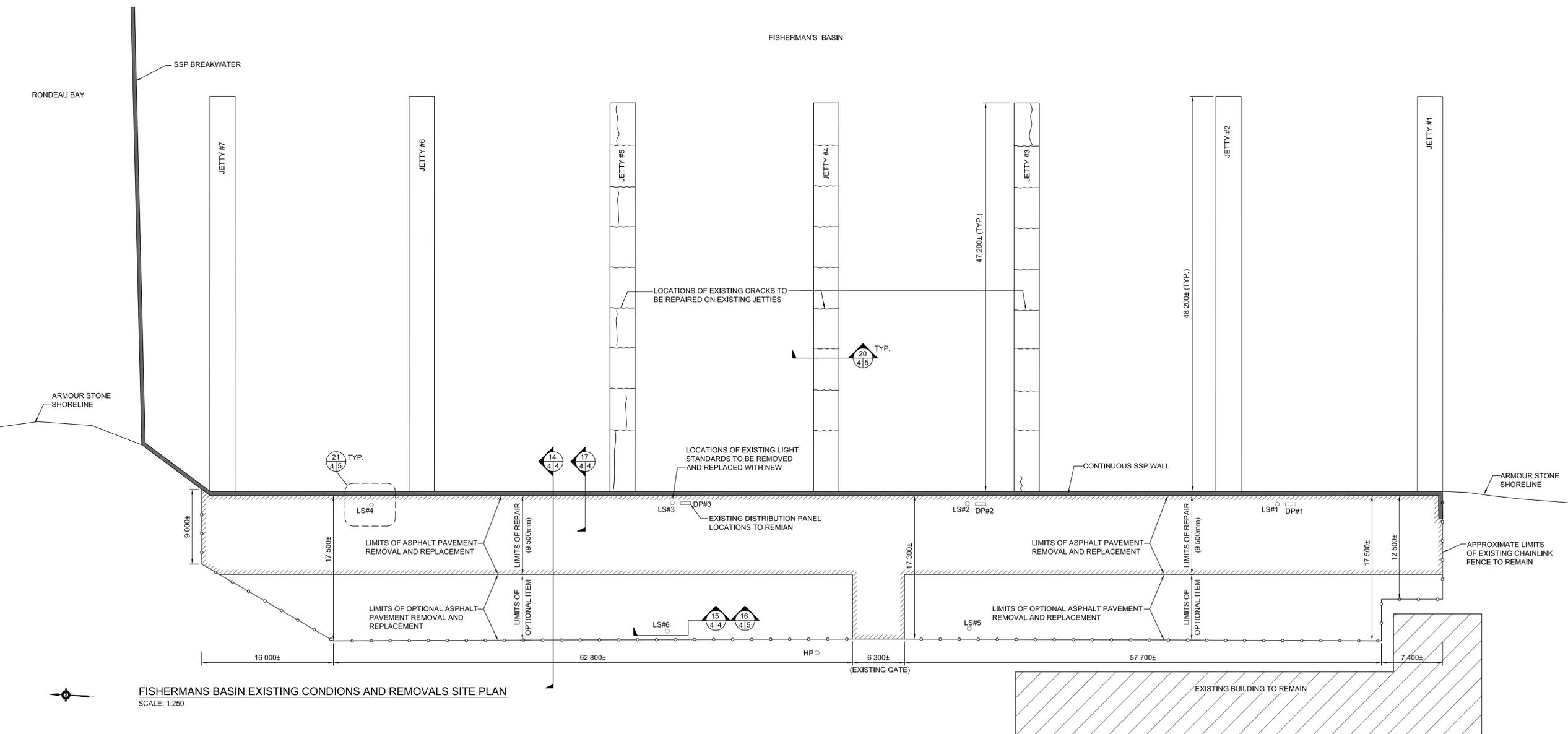
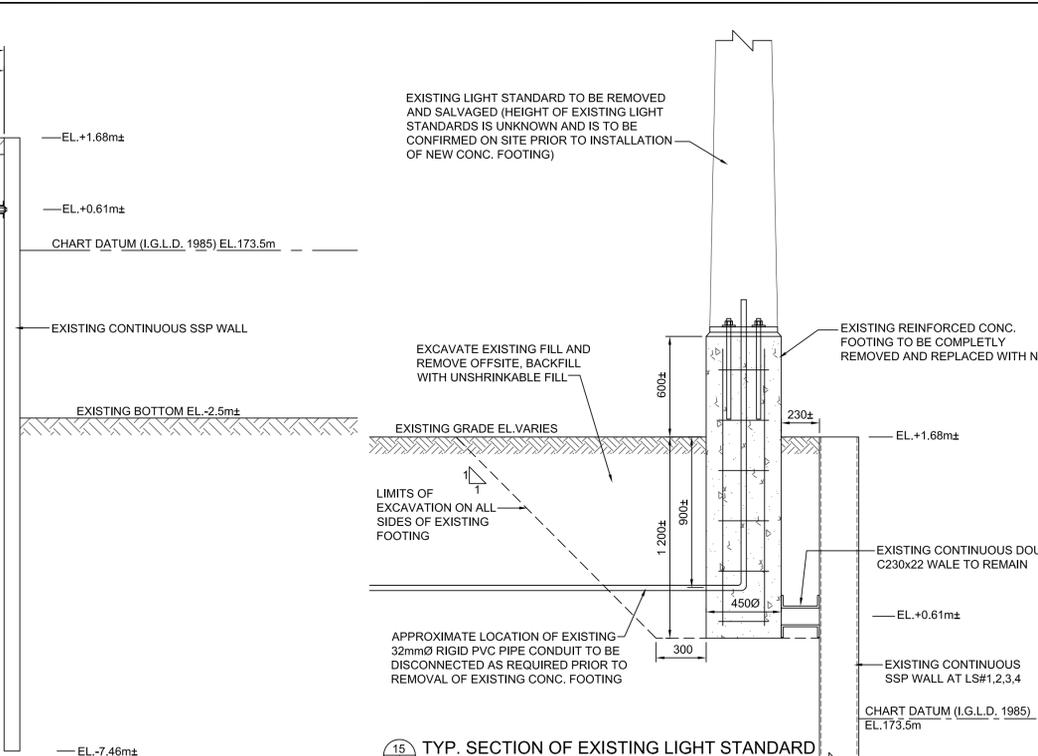
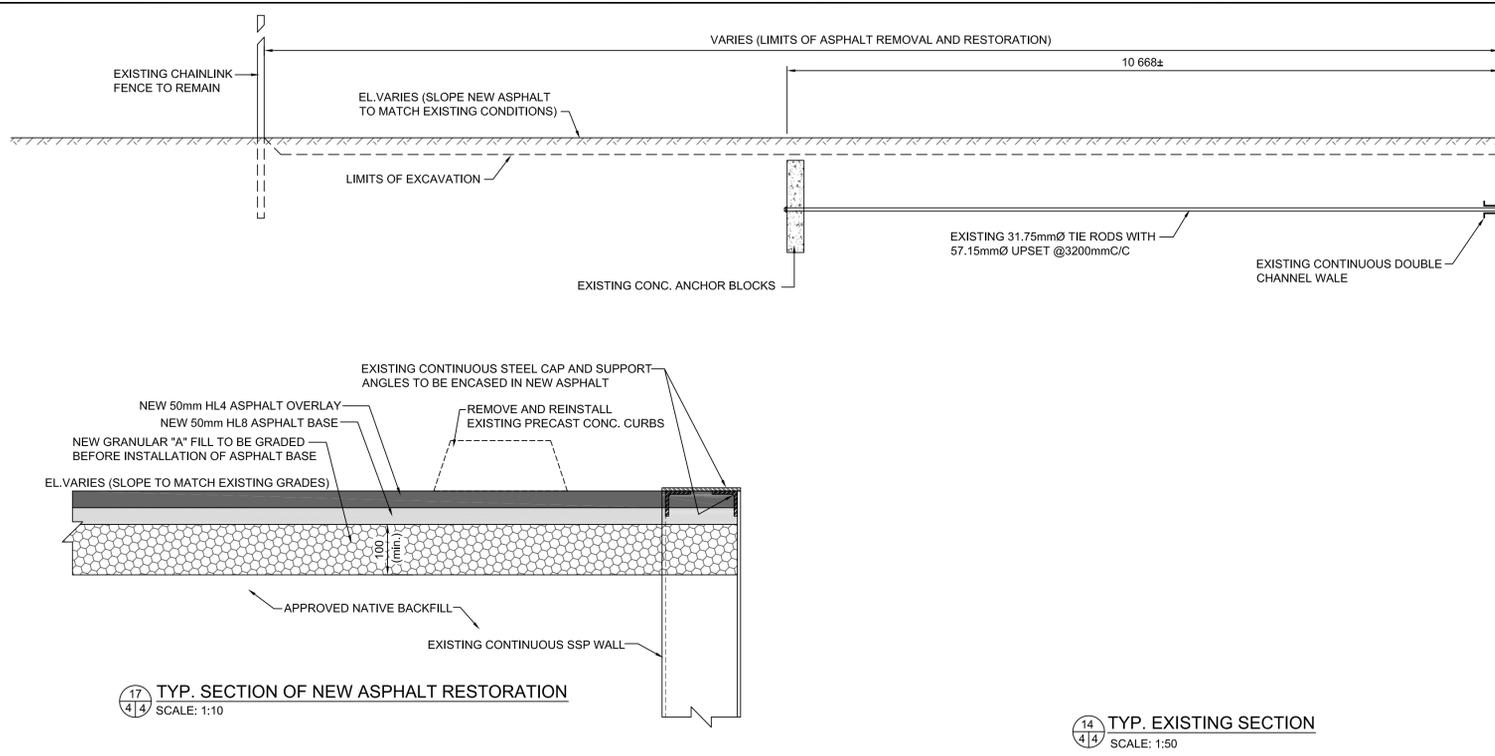
PROJECT:  
**HARBOUR IMPROVEMENTS  
 RONDEAU (ERIEAU)**

DESCRIPTION:  
**FISHERMANS BASIN  
 EXISTING CONDITIONS  
 AND REMOVALS**

DRAWN: A.M	APPROVED: P.L.
DATE: 2013-05-27	DATE: 2013-05-27

LOCATION:  
**ERIEAU (RONDEAU BAY)  
 ONTARIO**

DRAWING NO.: MA-04	LOCATOR CODE: 720172
--------------------	----------------------

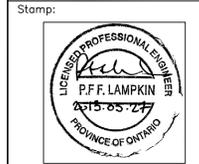


SMALL CRAFT HARBOURS  
 CENTRAL AND ARCTIC REGION



Riggs Engineering Ltd.  
 1240 Commissioners Rd. W, Suite 205  
 London, Ontario,  
 N6K 1C7  
 Tel: (519) 657-1040  
 Fax: (519) 657 8631  
 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:
0 ISSUED FOR TENDER	MAY 27, 2013

SCALE: AS NOTED CLASS:

PROJECT:  
**HARBOUR IMPROVEMENTS  
 RONDEAU (ERIEAU)**

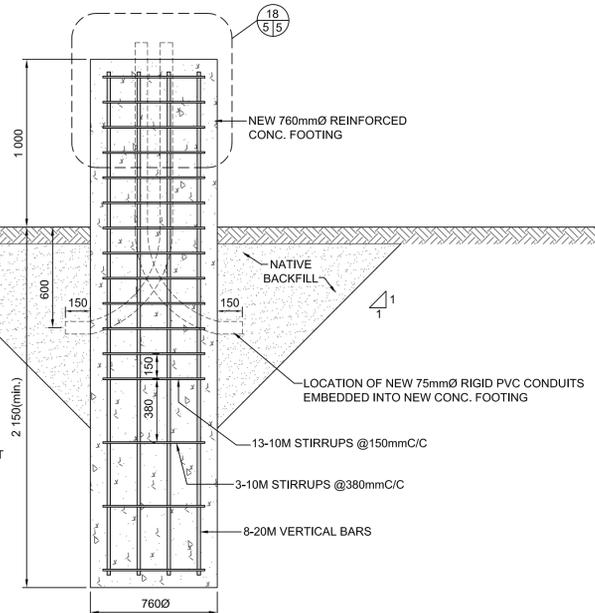
DESCRIPTION:  
**FISHERMANS BASIN  
 TYP. DETAILS**

DRAWN: <b>A.M</b>	APPROVED: <b>P.L.</b>
DATE: <b>2013-05-27</b>	DATE: <b>2013-05-27</b>

LOCATION:  
**ERIEAU (RONDEAU BAY)  
 ONTARIO**

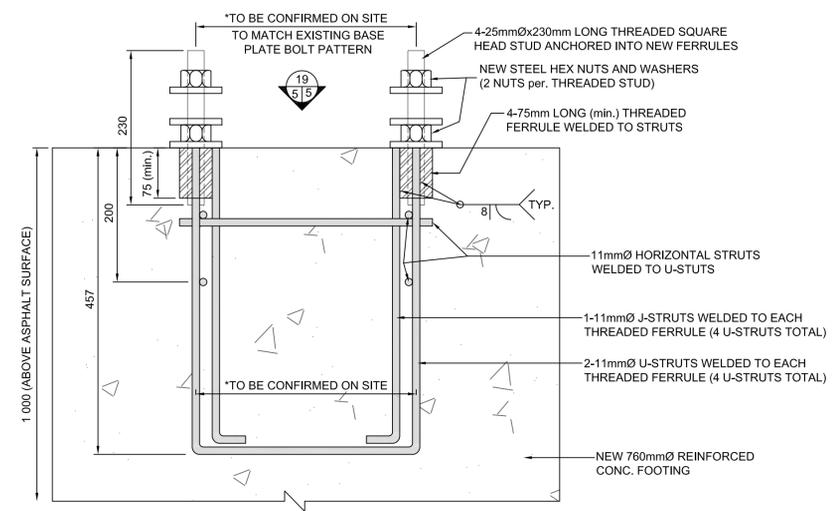
DRAWING NO.: <b>MA-05</b>	LOCATOR CODE: <b>720172</b>
------------------------------	--------------------------------

NOTE:  
 1) SALVAGED LIGHT STANDARD IS NOT SHOWN IN THIS DETAIL (HEIGHT OF EXISTING LIGHT STANDARDS IS UNKNOWN AND IS TO BE CONFIRMED ON SITE PRIOR TO INSTALLATION OF NEW CONC. FOOTING)  
 2) NEW ANCHOR ASSEMBLY IS NOT SHOWN IN THIS DETAIL.

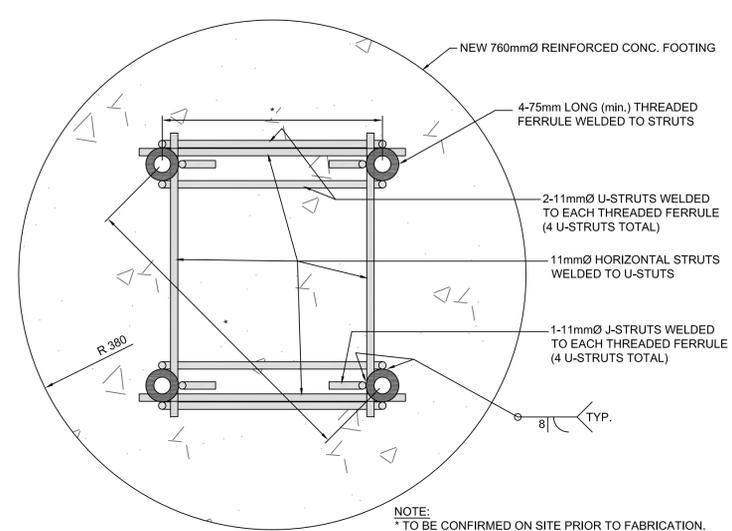


NOTE:  
 EXISTING 32mm RIGID PVC PIPE CONDUIT TO BE CONNECTED TO NEW 75mm RIGID PVC CONDUIT AS SPECIFIED (EXISTING CONDUIT IS NOT SHOWN IN THIS DETAIL)

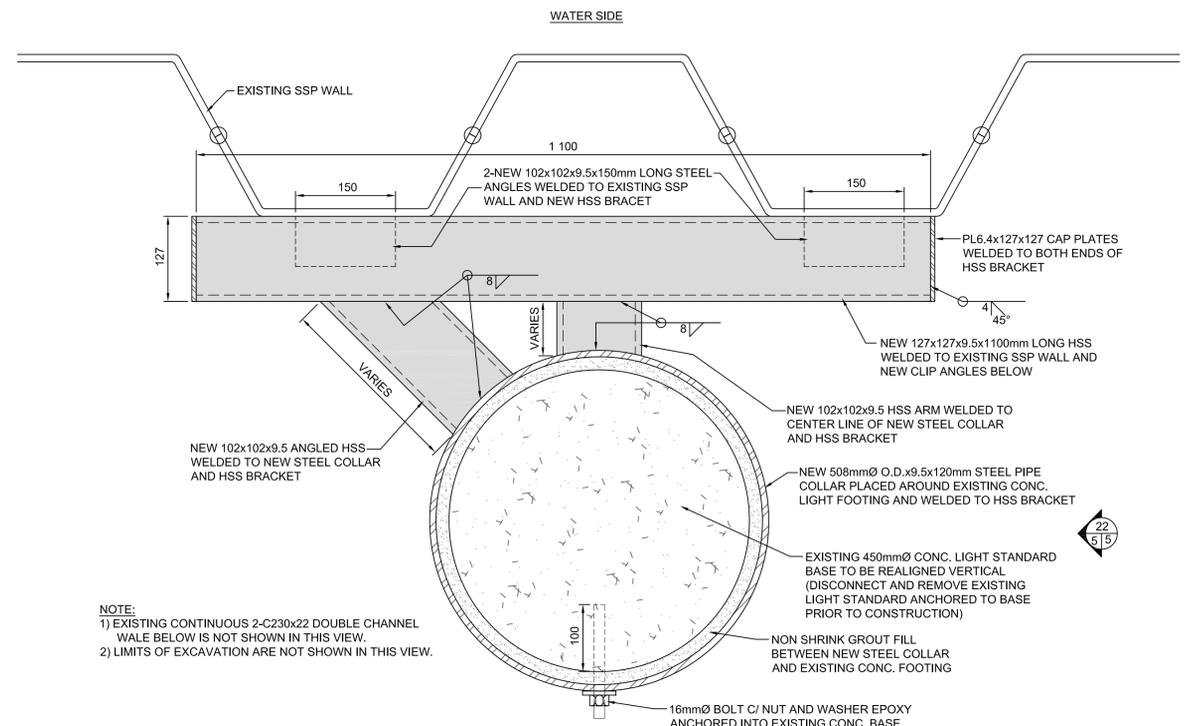
16 OPTIONAL ITEM @ LS#5 AND #6 TYP. SECTION OF NEW LIGHT STANDARD CONC. PEDESTAL  
 SCALE: 1:20



18 TYP. DETAIL OF NEW ANCHOR ASSEMBLY  
 SCALE: 1:5

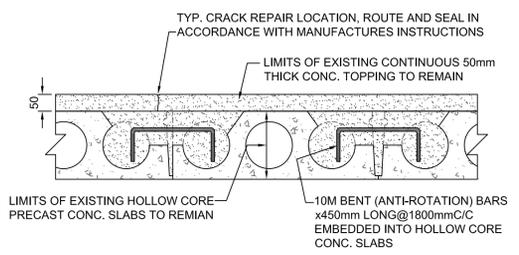


19 TYP. PLAN DETAIL OF NEW ANCHOR ASSEMBLY  
 SCALE: 1:5

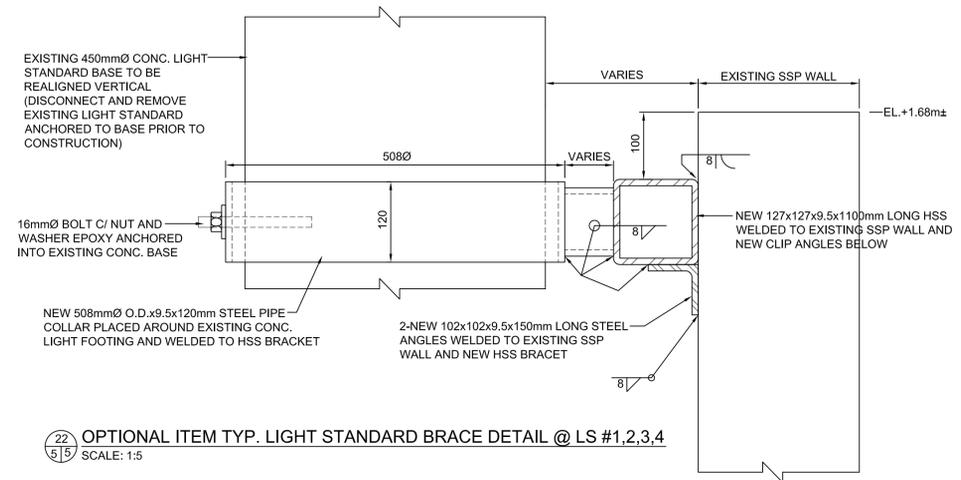


NOTE:  
 1) EXISTING CONTINUOUS 2-C230x22 DOUBLE CHANNEL WALE BELOW IS NOT SHOWN IN THIS VIEW.  
 2) LIMITS OF EXCAVATION ARE NOT SHOWN IN THIS VIEW.

21 OPTIONAL ITEM TYP. LIGHT STANDARD BRACE @ LS #1,2,3,4  
 SCALE: 1:5



20 TYP. SECTION @ CRACK REPAIRS  
 SCALE: 1:10



22 OPTIONAL ITEM TYP. LIGHT STANDARD BRACE DETAIL @ LS #1,2,3,4  
 SCALE: 1:5