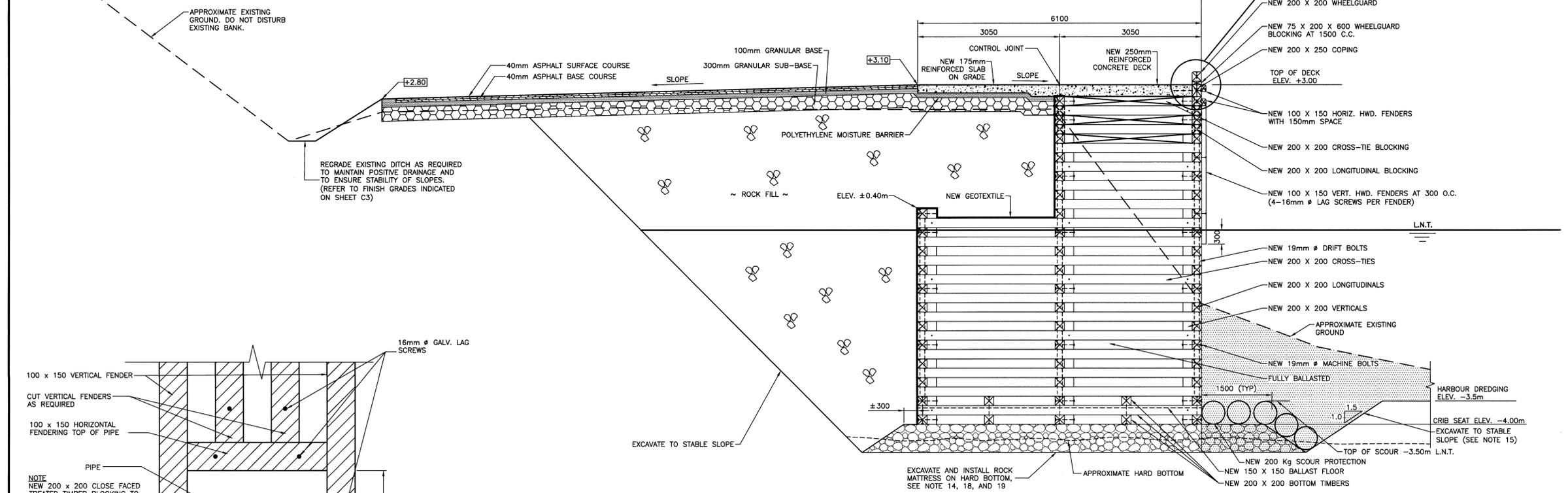


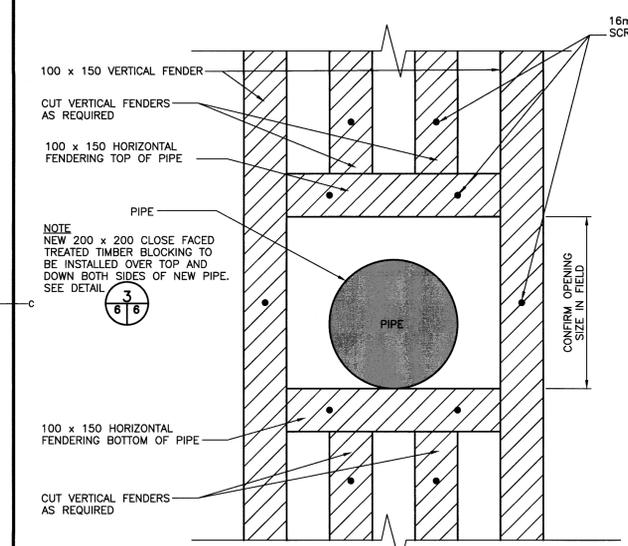
SMALL CRAFT HARBOURS



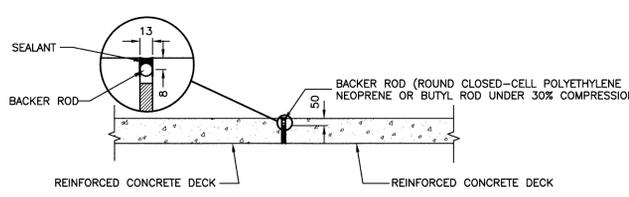
**GENERAL LEGEND:**  
 DENOTES PAY LIMITS FOR DREDGING  
 (SEE SECTION 35 20 23 - DREDGING)



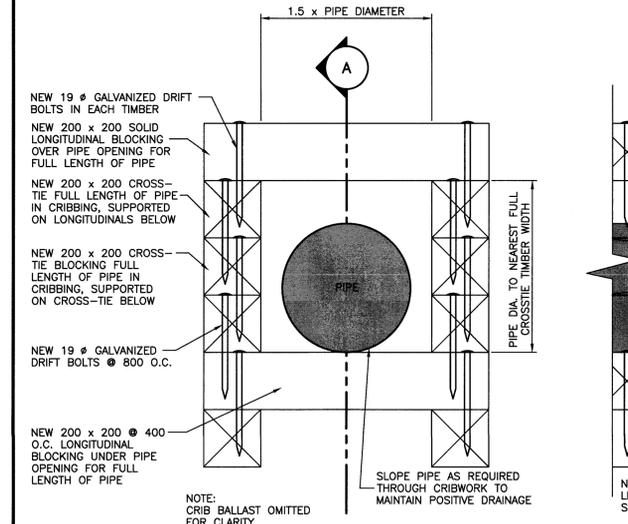
**1 NEW MARGINAL WHARF SECTION**  
 SCALE: 1:40  
 0m 1m 2m 3m 4m 5m



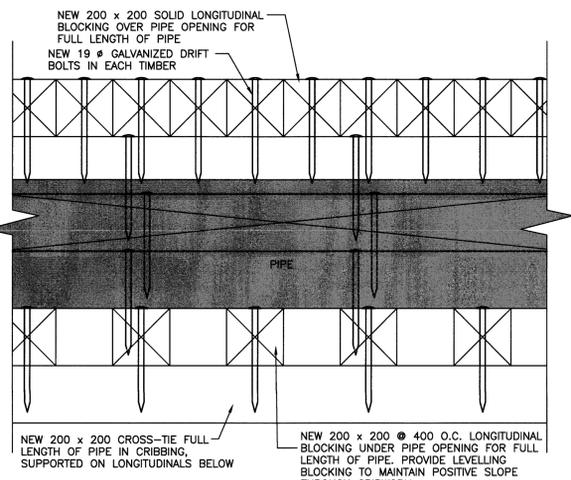
**2 PIPING THROUGH FENDERING DETAIL**  
 SCALE: 1:10  
 0m 100 200 300 400 500 600 700 800 900 1000mm



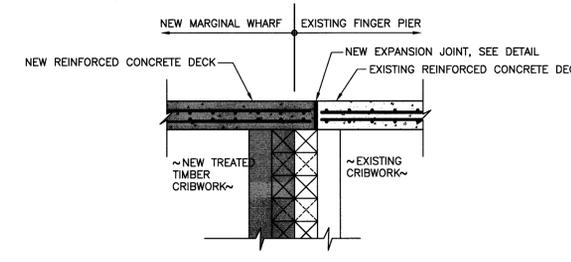
**6 EXPANSION JOINT DETAIL**  
 SCALE: 1:20  
 0m 500mm 1000mm 1500mm 2000mm 2500mm



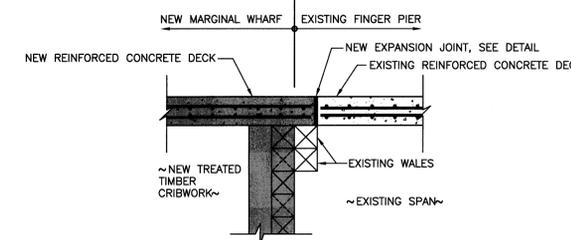
**3 PIPING THROUGH CRIBWORK DETAIL**  
 SCALE: 1:10  
 0m 100 200 300 400 500 600 700 800 900 1000mm



SECTION "A"



**4 EXISTING FINGER PIER CRIB TIE-IN DETAIL**  
 SCALE: 1:25  
 0m 500mm 1000mm 1500mm 2000mm 2500mm



**5 EXISTING FINGER PIER SPAN TIE-IN DETAIL**  
 SCALE: 1:25  
 0m 500mm 1000mm 1500mm 2000mm 2500mm

**GENERAL NOTES:**

- ALL DIMENSIONS IN MILLIMETRES.
- ALL ELEVATIONS IN METRES.
- DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS AS SHOWN.
- MINIMUM CONCRETE STRENGTH 35 MPa @ 28 DAYS.
- REINFORCING STEEL YIELD STRENGTH 400 MPa.
- REINFORCING STEEL SPECIFICATIONS SHALL CONFORM TO A23.3, LATEST EDITION, AND AS INDICATED BELOW:  
 A.) STRUCTURAL DECK:  
 - 20M = 700mm LAP  
 - 15M = 500mm LAP  
 B.) ALL OTHER AREAS:  
 - 20M = 850mm LAP  
 - 15M = 650mm LAP
- ALL REBAR TO HAVE MIN. COVER OF 75mm UNLESS OTHERWISE NOTED.
- ALL MACHINE BOLTS TO BE 19mm DIAMETER (GALVANIZED), UNLESS OTHERWISE NOTED.
- ALL DRIFT BOLTS TO BE 19mm DIAMETER (GALVANIZED), AS NOTED ON DRAWINGS.
- ALL TIMBER TO BE TREATED TO CSA 080, LATEST EDITION, UNLESS OTHERWISE NOTED.
- REINFORCED CONCRETE DECK IS DESIGNED IN ACCORDANCE WITH THE CANADIAN HIGHWAY BRIDGE CODE, 2010 EDITION, AND BASED ON THE CL-625 TRUCK AND ASSOCIATED DYNAMIC LOAD ALLOWANCE AND LANE LOAD.
- GALVANIZING WILL CONFORM TO ASTM A123/A123M-09, LATEST EDITION.
- ALL LAG SCREWS TO BE GALVANIZED AND SIZED AS PER FOLLOWING:  
 LADDER UPRIGHTS - 19mm  
 FENDERING - 16mm
- IN AREAS WHERE THE HARD BOTTOM ELEVATION IS HIGHER THAN -4.0m, CONTRACTOR SHALL EXCAVATE TO ESTABLISH A FLAT SURFACE AND INSTALL CRIBS ON HARD BOTTOM TO THE ELEVATION INDICATED. SCRIBE CRIBS TO A PREPARED FLAT BOTTOM IF NECESSARY TO ENSURE FULL SUPPORT IS PROVIDED UNDER THE BEARING TIMBERS. IF GEOTECHNICAL CONDITIONS DIFFER FROM THOSE INDICATED, ADVISE DEPARTMENTAL REPRESENTATIVE IMMEDIATELY.
- CONTRACTOR TO EXCAVATE/DREDGE IN SUCH A MANNER AS TO ENSURE STABILITY OF SLOPES PRIOR TO AND DURING CRIB CONSTRUCTION. DREDGE LIMIT SLOPES SHOWN FOR MEASUREMENT FOR PAYMENT PURPOSES ONLY.
- ROCK SCOUR PROTECTION TO EXTEND A MAXIMUM OF 0.5m ABOVE CRIBSEAT ELEVATION.
- ALL DREDGING MEASURED UNDER SECTION 35 20 23 - DREDGING, SHALL BE MEASURED FOR PAYMENT PURPOSES BASED ON DREDGE SLOPES 1:5H:1V, EXCEPT IN ROCK, WHICH SHALL BE 1H:4V, BASED ON THE OUTER DREDGE BOUNDARIES INDICATED.
- ROCK MATTRESS SHALL NOT BE LESS THAN 600mm THICK IN ANY LOCATION. CONTRACTOR TO EXCAVATE AS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PLACE ROCK MATTRESS/CRIBWORK ON HARD BOTTOM. THE CONTRACTOR SHALL DEMONSTRATE THROUGH THE USE OF EXCAVATION/DREDGING EQUIPMENT OR OTHER MEANS, THAT SUFFICIENT MATERIAL HAS BEEN REMOVED TO ENSURE ROCK MATTRESS/CRIBWORK WILL COME TO REST ON HARD BOTTOM. ONCE THE CONTRACTOR HAS DETERMINED THAT HARD BOTTOM HAS BEEN ACHIEVED THROUGH EXCAVATION/DREDGING EQUIPMENT, THE CONTRACTOR SHALL THOROUGHLY PROBE THE AREA IN A MINIMUM 1.0m X 1.0m GRID TO CONFIRM THAT ALL LOOSE AND SOFT UNSOUND SOILS HAVE BEEN REMOVED TO HARD BOTTOM. ALL PROBING ACTIVITIES TO BE COMPLETED BY DIVERS USING A 15mm Ø X 2000mm STEEL ROD DRIVEN WITH A 2.5kg HAMMER. UNLESS OTHERWISE DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE, HARD BOTTOM IS ACHIEVED WHEN THE PROBE CANNOT PENETRATE MORE THAN 400mm INTO THE UNDERLYING SOILS. WITHIN THE FOOTPRINT OF THE AREA TO RECEIVE ROCK MATTRESS/CRIBWORK, ALL WORK TO BE OVERSEEN BY THE ONSITE INSPECTOR. IF THE PROBE PENETRATIONS EXCEED 400mm, THEN THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTINUE EXCAVATING/DREDGING TO A DEPTH WHICH HARD BOTTOM IS REACHED AND RE-PROBE TO ACHIEVE THE REQUIREMENTS NOTED ABOVE. THE CONTRACTOR AND THE DEPARTMENTAL REPRESENTATIVE SHALL AGREE ON SITE AS TO WHEN THE DEPTHS REQUIRED TO REACH HARD BOTTOM ARE MET.

PROVINCE OF NEWFOUNDLAND AND LABRADOR  
 PERMIT HOLDER  
 This Permit Allows  
**Meridian Engineering Inc.**  
 Member No. 04378  
 To practice Professional Engineering  
 in Newfoundland and Labrador.  
 Permit No. as issued by PEG - 201453  
 which is valid for the year 2016.



revision	description	date
E	ISSUED FOR TENDER	16/09/11
D	ISSUED FOR FINAL REVIEW	16/09/13
C	ISSUED FOR 99% REVIEW	16/08/08
B	ISSUED FOR 66% REVIEW	16/05/18
A	ISSUED FOR 33% REVIEW	16/04/14

**WHARF CONSTRUCTION FERMEUSE, NL**

**MARGINAL SECTIONS AND DETAILS**

designed C. FISHER concs  
 date APRIL, 2016  
 drawn R. SNOW desine  
 date APRIL, 2016  
 approved \_\_\_\_\_ approve  
 date \_\_\_\_\_  
 DFO Project Manager Administrateur de projets MPO  
 project number 721920 no. du projet  
 drawing no. C6 OF 11 no. du dessin