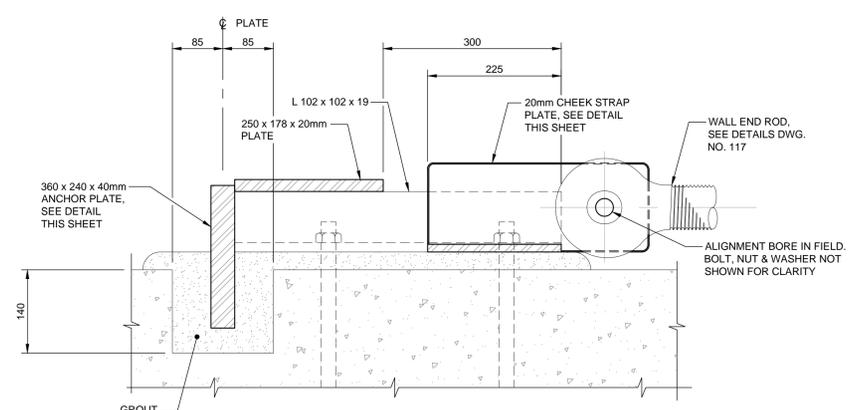
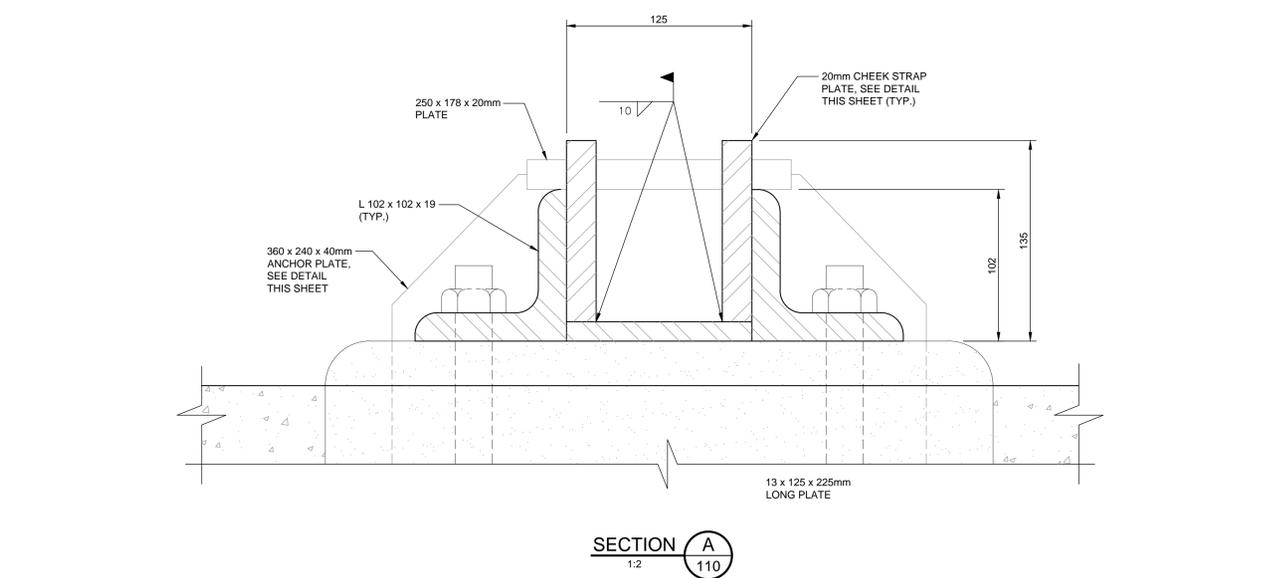
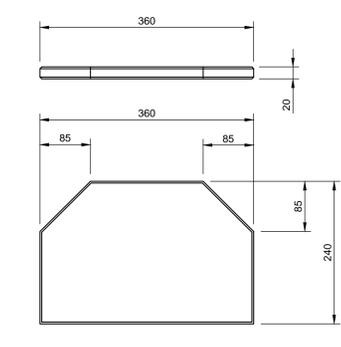


PLAN - EMBEDDED ANCHORAGE LAYOUT
1:10
(WEST SIDE SHOWN, EAST SIDE OPPOSITE HAND)



NOTES:
1) WELDS NOT SHOWN IN THIS VIEW.
2) ALIGNMENT BORE HOLES (Ø50 mm +1.0 mm / -0 mm) TO BE FIELD DRILLED IN CHEEK STRAPS TO SUIT EXACT FIELD LOCATION OF HOLES IN WALL END EYELET BARS.



NOTES:
1) MATERIAL - AISI 4340 ALLOY STEEL.
2) PAINT - WELDABLE PRE-PRIMER.
3) EDGES TO HAVE 3 mm CHAMFER AS SHOWN.
4) QUANTITY OF FOUR (4) REQUIRED.

GENERAL NOTES:
ALLOY STEEL AISI 4340 QUENCHED AND TEMPERED TO ACHIEVE THE FOLLOWING PROPERTIES:

1. MINIMUM YIELD: 689 MPa.
2. TENSILE STRENGTH: 862 MPa TO 965 MPa.
3. CHARPY IMPACT: AT -29 DEGREES CELCIUS, AVERAGE OF THREE TESTS, MINIMUM 27 JOULES WITH ALL INDIVIDUAL TESTS ABOVE 20 JOULES.
4. FERRITIC GRAIN STRUCTURE.
5. SUBMIT ALL DATA BEFORE PURCHASE.

ALLOY STEEL FOR WALL END BOLT AND NUT
AISI 4340 QUENCHED AND TEMPERED TO ACHIEVE THE FOLLOWING PROPERTIES:

1. MINIMUM YIELD: 825 MPa.
2. TENSILE STRENGTH: 931 MPa TO 1000 MPa.
3. ALL OTHER PROPERTIES SAME AS ABOVE.

No.	Description	Rev. By / Des. Par	Date
1	ISSUED FOR TENDER	DMR	JULY 2015

NOTE:
Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

A Detail number
Numéro du détail

B Location dwg. number
Numéro sur dessin

Project title / Titre du projet

**RIDEAU CANAL
BLACK RAPIDS LOCK 13
UPGRADES 2015**

Drawing title / Titre du dessin

**LOWER GATE
TOP ANCHORAGE &
CYLINDER PIT DETAILS IV**

Drawn by / Dessiné par
DAVID ROWAN

Designed by / Conçu par
**LUC BÉRIALTY, P.Eng.
CZESLAW CUDOWSKI, P.Eng.**

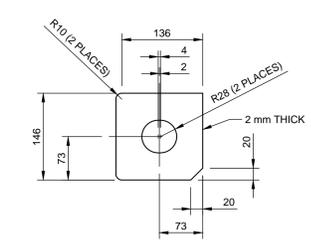
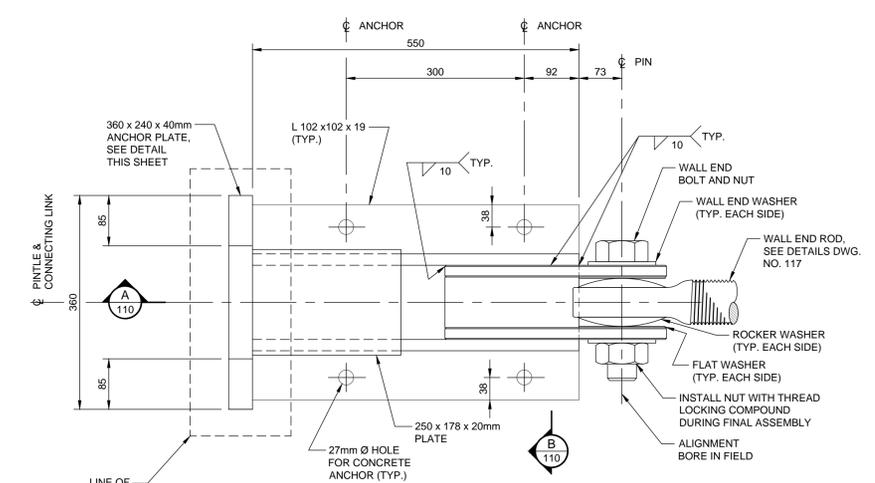
Approved by / Approuvé par
LUC BÉRIALTY, P.Eng.

Drawing Date / Date du dessin
JUNE 2015

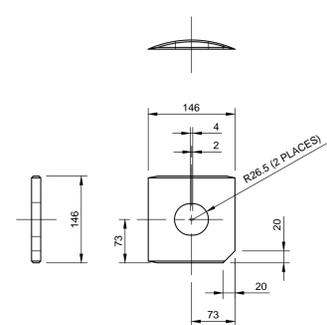
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PWGS Project Number / Numéro du projet TPSGC
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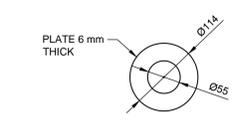
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11 of 21



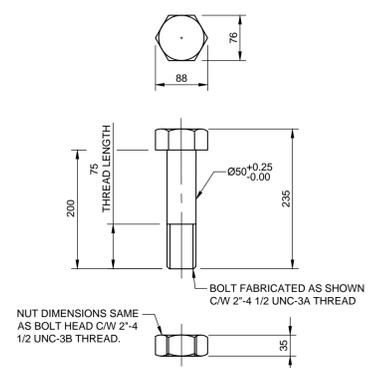
NOTES:
1) MATERIAL - UHMWPE, OIL FILLED.
2) EDGES TO BE GROUND SMOOTH AND FREE OF BURRS.
3) QUANTITY OF TEN (10) REQUIRED.



NOTES:
1) MATERIAL - UHMWPE, OIL FILLED.
2) EDGES TO HAVE 3 mm CHAMFER AS SHOWN.
3) QUANTITY OF TEN (10) REQUIRED - FIVE (5) AS SHOWN AND FIVE (5) OPPOSITE HAND.

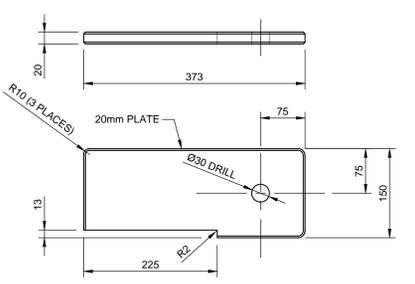


NOTES:
1) MATERIAL - MILD STEEL.
2) PAINT - BLACK.
3) EDGES TO BE GROUND SMOOTH AND FREE OF BURRS.
4) QUANTITY OF TWENTY (20) REQUIRED.



NOTES:
1) MATERIAL - STRONGER AISI 4340 ALLOY STEEL.
2) PRIMER AND ALKYD ON BOLT HEAD AND NUT ONLY DO NOT PAINT THREADS OR MACHINED LENGTH.
3) CHAMFER 3 mm AS SHOWN (3 PLACES).
4) QUANTITY OF TEN (10) REQUIRED.
5) STRONGER MATERIAL THAN OTHER STEEL PARTS. SEE GENERAL NOTES

WALL END NUT AND BOLT DETAIL
1:5



NOTES:
1) MATERIAL - AISI 4340 ALLOY STEEL.
2) PAINT - WELDABLE PRE-PRIMER (DO NOT PAINT INSIDE OF HOLE).
3) EDGES TO HAVE 3 mm CHAMFER AS SHOWN.
4) ALIGNMENT BORE HOLE IN FIELD TO FINAL Ø55.0 DIAMETER.
5) QUANTITY OF EIGHT (8) REQUIRED.

EMBEDDED ANCHORAGE ASSEMBLY DETAILS