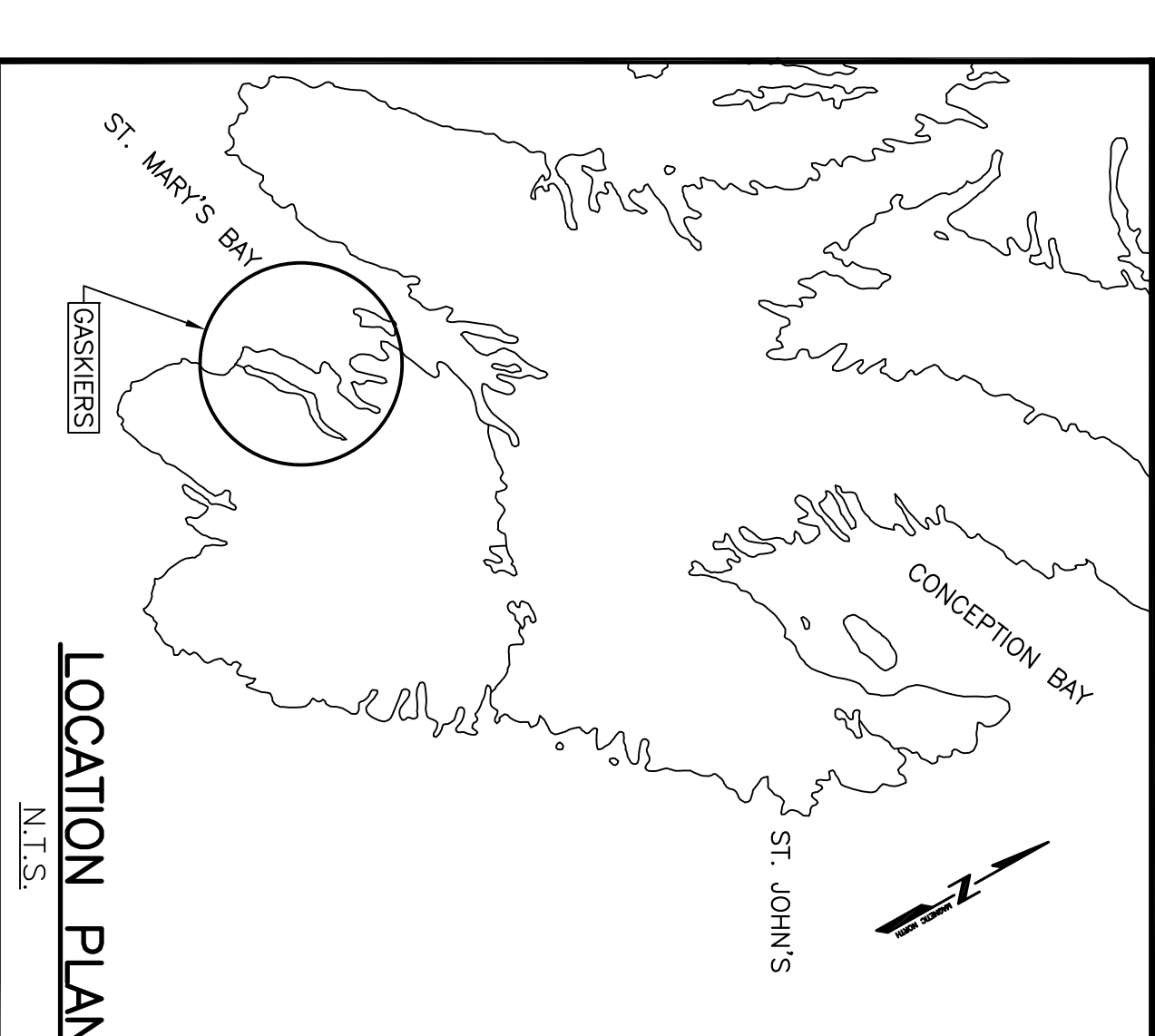
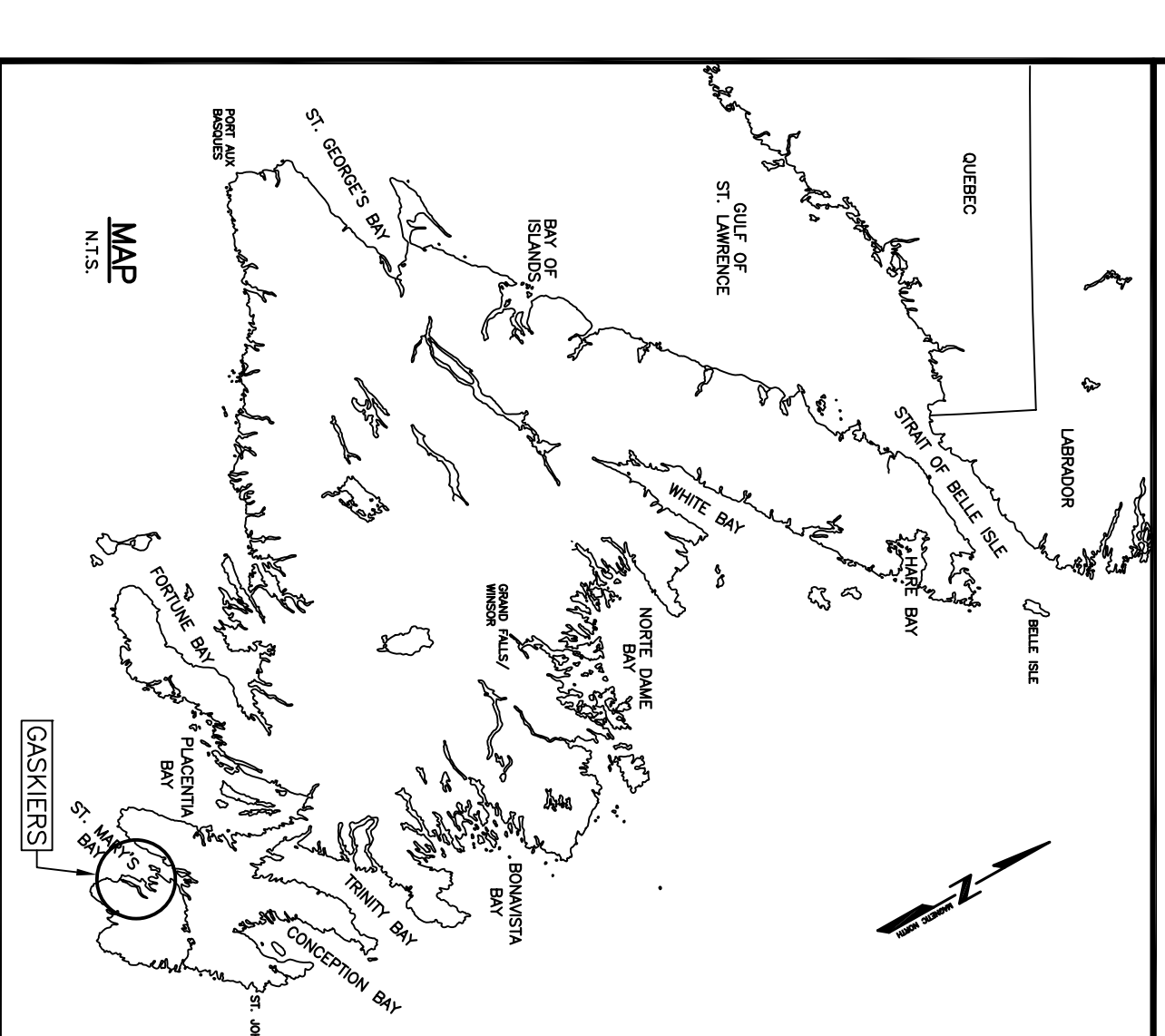


FISHERIES AND OCEANS
CANADA

SMALL CRAFT HARBOURS

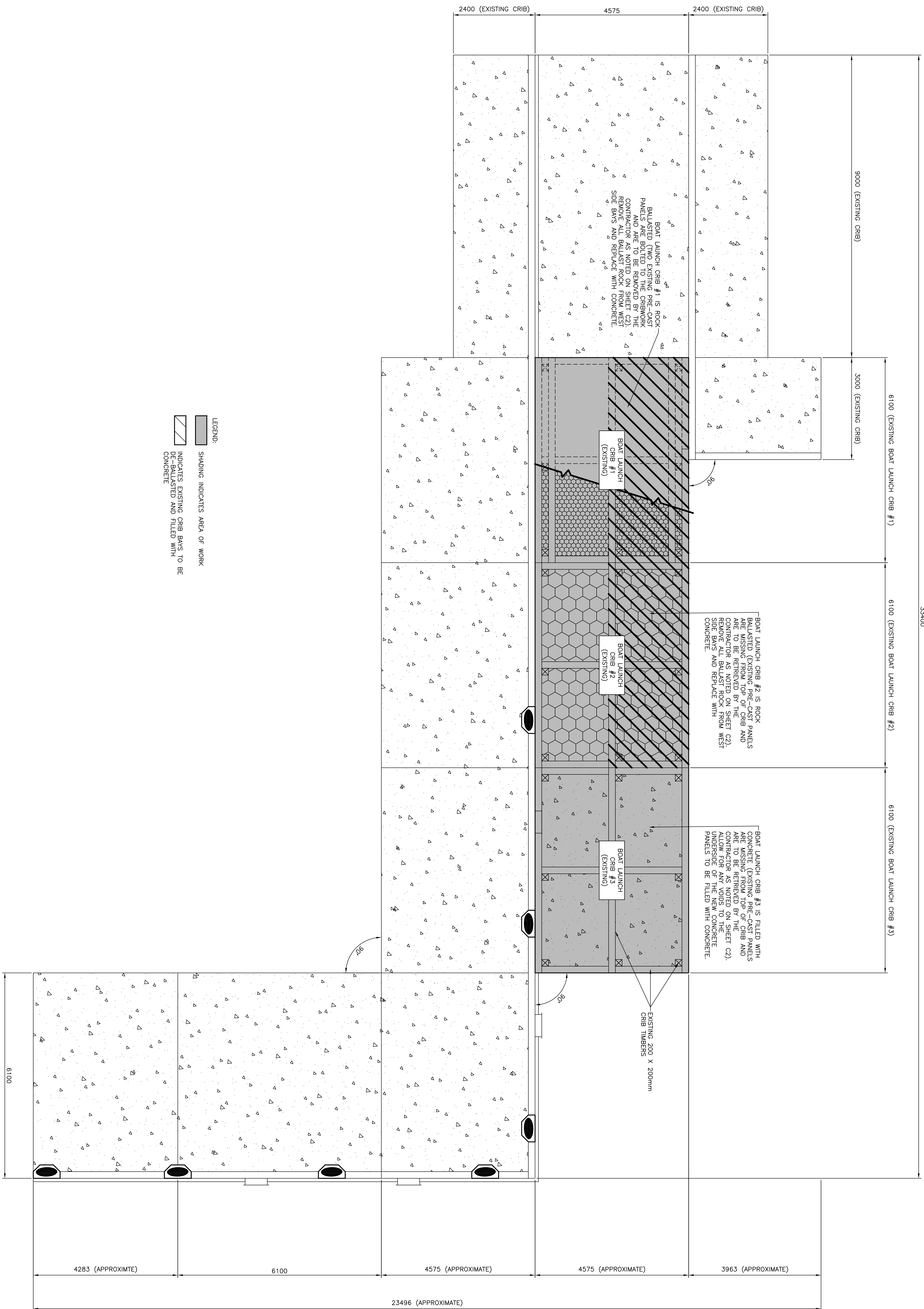


LAUNCHWAY REPAIRS
GASKIERS
NEWFOUNDLAND AND LABRADOR

PROJECT No. 722344-001
ISSUED FOR TENDER

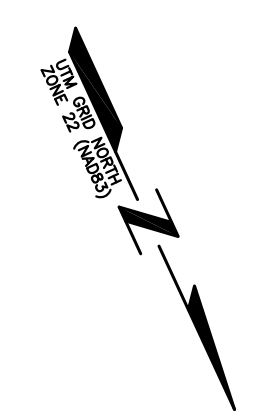
LIST OF DRAWINGS:

- | | | | |
|----|----|---|---------------------------------|
| C1 | OF | 5 | SOUNDING AND TOPOGRAPHIC SURVEY |
| C2 | OF | 5 | DEMOLITION PLAN |
| C3 | OF | 5 | EXISTING CRIB LAYOUT |
| C4 | OF | 5 | SECTION AND ELEVATION |
| C5 | OF | 5 | DETAILS |



LEGEND:

- SHADING INDICATES AREA OF WORK
- INDICATES EXISTING CRIB BAYS TO BE DE-BALLASTED AND FILLED WITH CONCRETE



Small Craft Harbours

Province of Newfoundland
Permit Holder
This Permit Allows
APN ENGINEERING INC.

REGISTERED PROFESSIONAL ENGINEER
NIELL C. BIRCH
PROVINCE OF NEWFOUNDLAND & LABRADOR
REGISTRATION NO. 1115
ISSUED 2019

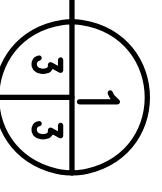
By practice Professional Engineering
No. 1115
Permit No. as issued by Approval #20202
which is valid for the year 2020.

NOTES:
1. ALL ELEVATIONS ARE IN METRES
UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE IN MILLIMETRES
UNLESS OTHERWISE NOTED.

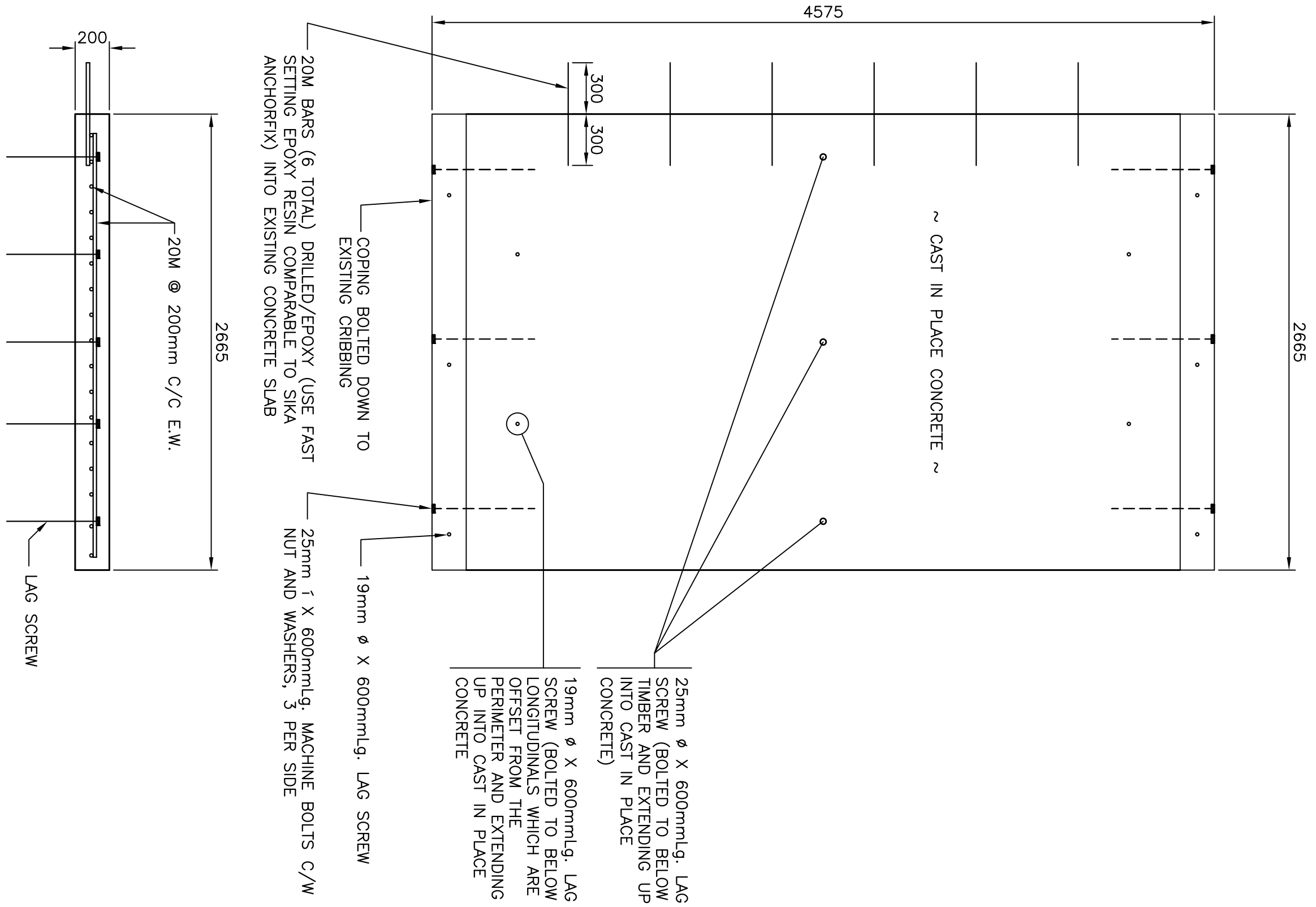
designing	design
EXISTING CRIB LAYOUT	
designed N.H.	scale
date JUN 24, 2020	
drawn P.H.	designed
date JUN 24, 2020	approved
approved	
Project Manager	no. du projet
722344-001	
no. du dessin	
C3	

PLAN

SCALE : N.T.S.

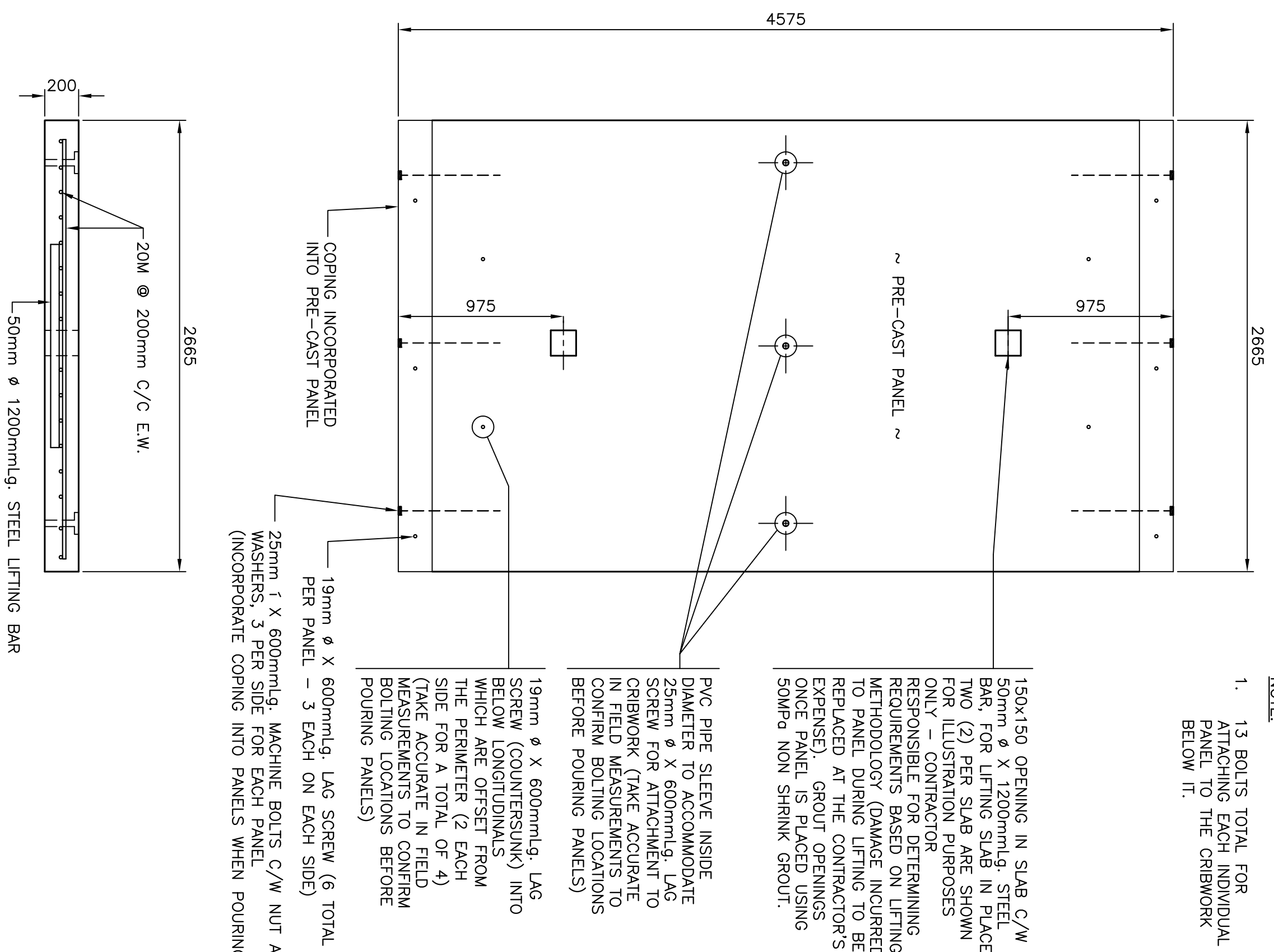
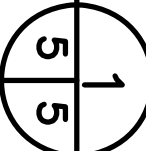


C3



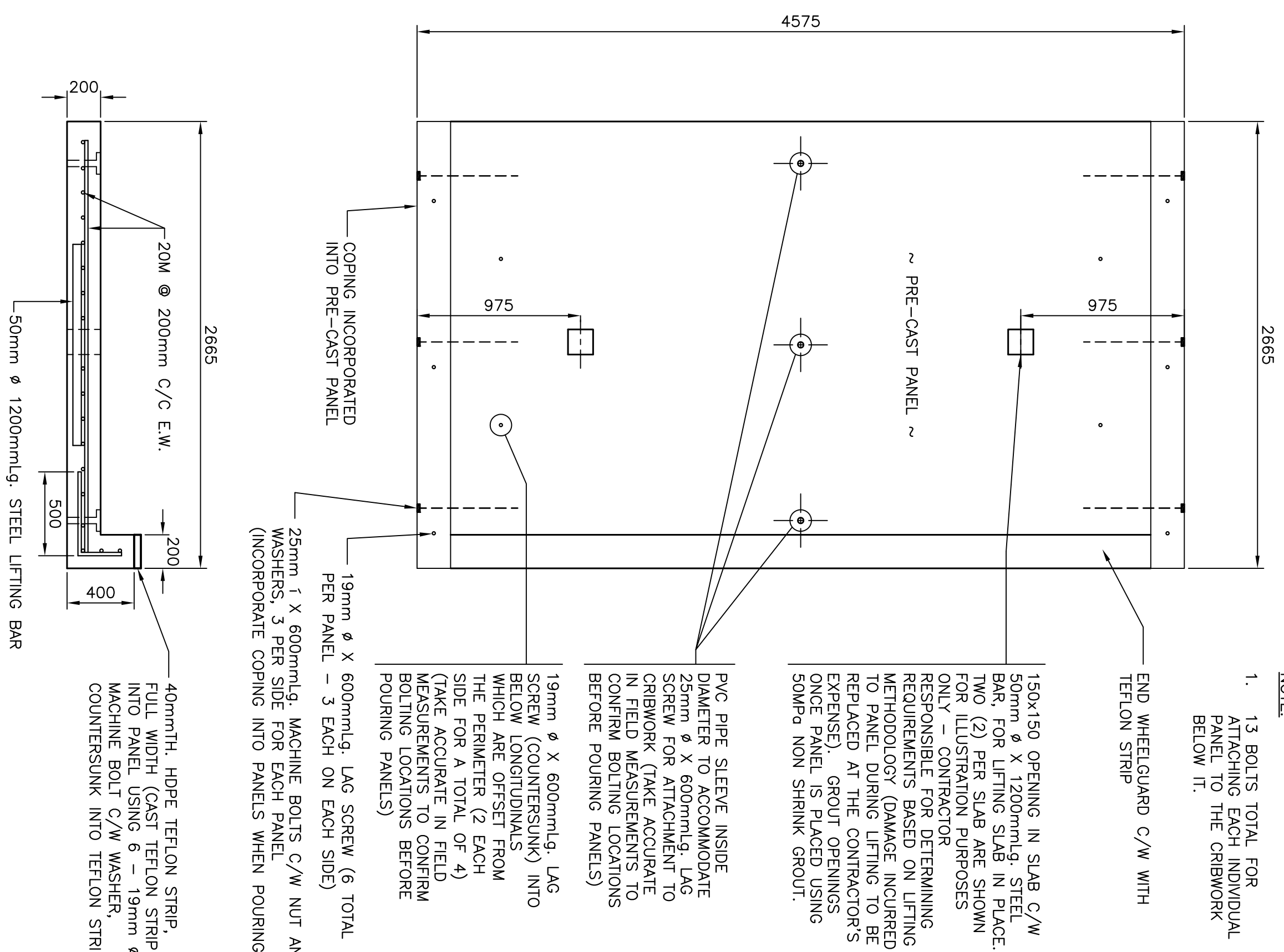
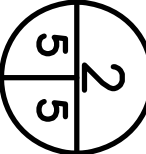
CAST IN PLACE SECTION AT APPROACH

SCALE : 1:25
0mm 500mm 1000m 1500m 2000m 2500m



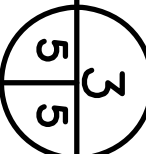
PRE-CAST CONCRETE PANEL - TYPE '12' (5 REQUIRED)

SCALE : 1:25
0mm 500mm 1000m 1500m 2000m 2500m



PRE-CAST CONCRETE PANEL - TYPE '11' (1 REQUIRED)

SCALE : 1:25
0mm 500mm 1000m 1500m 2000m 2500m



NOTE:
1. 13 BOLTS TOTAL FOR ATTACHING EACH INDIVIDUAL PANEL TO THE CRIBWORK BELOW IT.

150x150 OPENING IN SLAB C/W 50mm ϕ X 1200mm LG STEEL W/ 2 (2) PER SLAB ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY - CONTRACTOR RESPONSIBLE FOR DETERMINING RESISTANCE BASED ON LIFTING METHODOLOGY (DAMAGE INCURRED TO PANEL DURING LIFTING TO BE REPLACED AT THE CONTRACTOR'S EXPENSE). GROUT OPENINGS SHALL BE FILLER GROUT USING 50M ϕ NON SHRINK GROUT.

PVC PIPE SLEEVE INSIDE W/ 19mm ϕ X 600mm LG SCREW FOR ATTACHMENT TO CRIBWORK (TAKE ACCURATE IN FIELD MEASUREMENTS TO PRECAST PANELS) BEFORE POURING PANELS)

19mm ϕ X 600mm LG SCREW (COUNTERSUNK) INTO BELOW LONGITUDINALS WHICH ARE OFFSET FROM THE FORM (SEE DETAIL OF SIDE VIEW) (TAKE ACCURATE IN FIELD MEASUREMENTS TO CONFIRM BOLTING LOCATIONS BEFORE POURING PANELS)

25mm T X 600mm LG MACHINE BOLTS C/W NUT AND WASHERS, 3 PER SIDE (INCORPORATE COPING INTO PANELS WHEN POURING)

NOTE:
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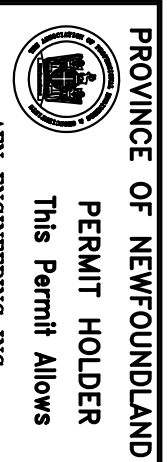
19mm ϕ X 600mm LG SCREW (COUNTERSUNK) INTO BELOW LONGITUDINALS WHICH ARE OFFSET FROM THE FORM (SEE DETAIL OF SIDE VIEW) (TAKE ACCURATE IN FIELD MEASUREMENTS TO CONFIRM BOLTING LOCATIONS BEFORE POURING PANELS)

25mm T X 600mm LG MACHINE BOLTS C/W NUT AND WASHERS, 3 PER SIDE (INCORPORATE COPING INTO PANELS WHEN POURING)



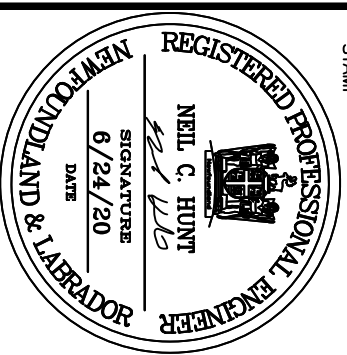
SMALL CRAFT HARBOURS

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2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.



PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
This Permit Allows
APN ENGINEERING INC.

By Practice Professional Engineering License No. 1115
Permit No. as Issued by APN 20202
which is valid for the year 2020



Author	ISSUED FOR TENDER	6/24/20
Checker	ISSUED FOR REVIEW	6/12/20
Project	LAUNCHWAY REPAIRS GASKIERS, NL	

DETAILS

designed N.H.	scale
date JUN 24, 2020	
drawn P.H.	designed
date JUN 24, 2020	approved
Project Manager	no. of project
722344-001	
no. of sheets	
CS	