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ARCTIC BAY HARBOUR DEVELOPMENT

ARCTIC BAY, NUNAVUT

DRAWING NO.	DESCRIPTION
C01	COVER SHEET AND DRAWING LIST
C02	DESIGN CRITERIA AND GENERAL NOTES
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C05	GENERAL ARRANGEMENT
C10	DREDGE - PLAN
C11	DREDGE - SECTIONS
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C40	MISCELLANEOUS DETAILS
E45	UNDERGROUND CONDUIT LAYOUT AND DETAILS
E46	SINGLE LINE DIAGRAMS, SCHEDULES, AND PANEL LAYOUTS
F-1	2.4m x 6.7m PRINCIPAL FLOAT WHARF
F-2	1.2m x 6.1m FINGER FLOAT WHARF
F-3	CONNECTION DETAILS AND ANCHOR ATTACHMENT
F-4	FLOAT COVER PLATE DETAILS
F-5	FLOAT WHARF ANCHOR BRACKET ATTACHMENT DETAILS

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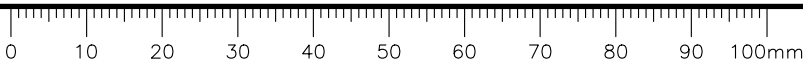
SMALL CRAFT HARBOURS
PORTS POUR PETITS BATEAUX

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317071-00037

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1	RE-ISSUED FOR TENDER	2024/12/18
0	ISSUED FOR TENDER	2022/02/22
Revision	Description	Date
Client	client	
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA 310 - 269 MAIN STREET WINNIPEG, MANITOBA, R3C 1B3		
Project title	Projet	
ARCTIC BAY, NUNAVUT		
ARCTIC BAY HARBOUR DEVELOPMENT		
Designed by	initial KM	Conçu par
KATIE MORRISON		
Drawn by	DS J	Dessiné par
JENNIFER COPPENDALE		
Approved by	DS CSM	Approuvé par
CHRIS MEISL		
PWSSC Project Manager	Administrateur de Projets TPSSC	
KENTON THIESSEN		
Drawing title	Titre du dessin	
COVER SHEET AND DRAWING LIST		
Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.110729.001	C01	1



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DESIGN CRITERIA:

1.0 DESIGN STANDARDS

1.1 STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT PORTIONS OF THE FOLLOWING CODES AND GUIDELINES:

NATIONAL BUILDING CODE OF CANADA 2015 (NBCC)
CANADIAN FOUNDATION ENGINEERING MANUAL (CFEM)
DESIGN OF STEEL STRUCTURES – CSA S16
DESIGN OF CONCRETE STRUCTURES – CSA A23.3

2.0 SERVICE LIFE AND MAINTENANCE

2.1 COMPONENTS OF THE WORK HAVE BEEN DESIGNED FOR A DESIGN SERVICE LIFE OF 40 YEARS, UNLESS NOTED OTHERWISE.

2.2 GRAVEL PAVEMENT SURFACES WILL EXPERIENCE LOCALIZED AREAS OF SETTLEMENT THAT WILL REQUIRE MAINTENANCE ON A REGULAR BASIS.

2.3 THE DESIGN SERVICE LIFE IS THE PERIOD FOR WHICH A STRUCTURE IS TO BE USED FOR ITS INTENDED PURPOSE WITH SCHEDULED INSPECTIONS AND MAINTENANCE BUT WITHOUT MAJOR REPAIR.

2.4 CORROSION ALLOWANCE:

ELEVATION	
2.0m TO 4.0m	6.5mm
-1.0m TO 2.0m	8.0mm
-5.0m TO -1.0m	7.5mm
-9.0m TO -5.0m	3.5mm
ZONES BACKFILLED BOTH SIDES	3.5mm
TIE-RODS	6.0mm (LOSS IN DIAMETER)

3.0 ENVIRONMENTAL LOADS AND EFFECTS

3.1 WIND SPEEDS (1 HR AVERAGE) BASED ON ENVIRONMENT CANADA WIND STATION DATA DURING THE OPEN WATER SEASON FOR MAJOR FETCH DIRECTIONS FOR ARCTIC BAY:

RETURN PERIOD:	50 YEARS
EAST:	65 KPH
SOUTHEAST:	90 KPH
SOUTH:	79 KPH
SOUTHWEST:	40 KPH

3.2 SNOW LOADS WERE OBTAINED FROM THE NBCC 2020 FOR ARCTIC BAY:

GROUND SNOW LOAD:	
Ss: 2.4 kPa	
Sr: 0.1 kPa	

3.3 RAINFALL DATA WAS OBTAINED FROM THE NBCC 2020 FOR ARCTIC BAY:

15 MINUTE:	3mm
ONE DAY (1/50):	38mm
ANNUAL RAIN (AVERAGE):	60mm
ANNUAL TOTAL PRECIPITATION (AVERAGE)	150mm

3.4 SEISMIC DATA WAS BASED ON INFORMATION PROVIDED BY NATURAL RESOURCES CANADA, 2015 NBCC SEISMIC HAZARD CALCULATIONS.

AVERAGE RETURN PERIOD IN YEARS:	1:2475
PROBABILITY OF EXCEEDANCE IN 50 YEARS:	2%
PGA	0.086
PGV:	0.069

4.0 MARINE CRITERIA

4.1 TIDE ELEVATIONS, REFERENCED TO CHART DATUM (CD), BASED ON 2020 CANADIAN HYDROGRAPHIC SERVICE (CHS) TIDAL RECORDS ARE AS FOLLOWS:

EXTREME HIGH WATER LEVEL (EHWL):	3.3m (ESTIMATED BASED ON RESOLUTE)
HIGHER HIGH WATER LEVEL, LARGE TIDE (HHWL):	3.0m
HIGHER HIGH WATER LEVEL, MEAN TIDE:	2.4m
MEAN WATER LEVEL (MWL):	1.5m
LOWER LOW WATER LEVEL, MEAN TIDE:	0.6m
LOWER LOW WATER LEVEL,LARGE TIDE (LLWL):	0.0m
EXTREME LOW WATER LEVEL (ELWL):	-0.4m (ESTIMATED BASED ON RESOLUTE)

4.2 WAVE CLIMATE:

RETURN PERIOD: 50 YEARS

SOUTHERLY WAVE	
SIGNIFICANT WAVE HEIGHT:	1.8m
PEAK WAVE PERIOD:	5.4s

NORTH-EASTERLY WAVE	
SIGNIFICANT WAVE HEIGHT:	0.8m
PEAK WAVE PERIOD:	3.1s

5.0 LOADING

5.1 UNIFORM AND STORAGE LOADS

WHARF AND SEALIFT LAYDOWN AREA: 25 kPa

5.2 VEHICLE LOADS: CL-625 HIGHWAY TRUCK

5.3 FIXED WHARF TIDAL LAG: 0.5m

6.0 GEOTECHNICAL INFORMATION

6.1 THE DESIGN OF THE STRUCTURES HAS BEEN BASED ON THE SITE INVESTIGATION AND TESTING PRESENTED IN ADVISIAN-IKPIARYUK REPORT 317071-00037-00-SS-REP-0001, REV. 0, DATED 22 NOVEMBER, 2021.

GENERAL NOTES:

1.0 GENERAL

1.1 DETAILED REQUIREMENTS FOR DESIGN (IF APPLICABLE), MATERIALS, FABRICATION, AND INSTALLATION ARE DESCRIBED IN THE SPECIFICATIONS. FOR CONVENIENCE, CERTAIN EXTRACTS ARE REPRODUCED BELOW. THE GENERAL NOTES DO NOT SUPERSEDE THE SPECIFICATIONS, IN THE EVENT OF A CONFLICT, NOTIFY THE DEPARTMENTAL REPRESENTATIVE.

1.2 DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE. ELEVATIONS ARE IN METRES AND ARE REFERENCED TO CHART DATUM.

1.3 EXISTING BASEPLAN IS DERIVED FROM THE FOLLOWING REFERENCE INFORMATION:

UNDERHILL GEOMATICS, LTD., TOPOGRAPHIC SURVEY FOR HARBOUR DEVELOPMENT, ARCTIC BAY, NUNAVUT BEING LOTS 392 AND 393 QUAD 048C/02, V20073-TOP-01-U-R0, DATED OCTOBER 9, 2020.

FRONTIER GEOSCIENCES LTD. BATHYMETRY SURVEY, DATED SEPTEMBER 2020.

2.0 PROJECT COORDINATE SYSTEM

2.1 THE PROJECT COORDINATE SYSTEM IS A UTM GRID SYSTEM IN ZONE 16 NORTH. THE HORIZONTAL DATUM IS NAD83 (CSRS)(2010). THE VERTICAL DATUM IS CGVD2013 WITH THE GEOID MODEL CGG2013A.

2.2 TO CONVERT FROM UTM TO GROUND:

DIVIDE THE NORTHING AND EASTING BY THE COMBINED SCALE FACTOR 0.999642735004 AT THE PROJECT ORIGIN (0,0). NOTE THAT ALL SIGNIFICANT FIGURES ARE REQUIRED WHEN APPLYING THE COMBINED SCALE FACTOR.

THE COMBINED SCALE FACTOR IS A PRODUCT OF A UTM FACTOR AND AN ELEVATION FACTOR. THE UTM FACTOR IS BASED ON THE EASTING AT MONUMENT 7038906 BEING 559732m. THE ELEVATION FACTOR IS BASED ON THE ELEVATION AT MONUMENT 7038906 BEING 14.739m.

2.3 PROJECT COORDINATE SYSTEM NOTES:

THE UTM COORDINATES AND ABSOLUTE ACCURACIES ACHIEVED ARE DERIVED FROM NATURAL RESOURCE CANADA'S PRECISE POINT POSITIONING (PPP) SERVICE VERSION 2.32.0 BASED ON A 23 HOUR OBSERVATION ON MONUMENT 1 BEGINNING ON SEPTEMBER 11, 2020.

THE DERIVED PPP COORDINATES FOR MONUMENT 1 ARE:

NORTHING:	8102670.814m
EASTING:	560303.216m
ELEVATION:	6.991m

2.4 VERTICAL DATUM

LOCAL TIDE AND CHART DATUM.
CHART DATUM IS 1.780m BELOW GEODETIC DATUM.

3.0 CONCRETE REINFORCING

3.1 REINFORCING STEEL SHALL BE BILLET-STEEL DEFORMED BARS TO CSA-G30.18 GRADE 400W (WELDABLE).

4.0 CONCRETE

4.1 CONCRETE SHALL BE EXPOSURE CLASS C-1 AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 35 MPa. FOR ADDITIONAL DESIGN PROPERTIES, SEE SPECIFICATIONS.

4.2 CONCRETE CLEAR COVER TO THE REINFORCEMENT SHALL BE 75mm, UNLESS NOTED OTHERWISE.

4.3 PROVIDE 25mm CHAMFERS ALONG ALL EXPOSED EDGES AND 25mm FILLETS AT RE-ENTRANT CORNERS, UNLESS NOTED OTHERWISE.

5.0 METAL FABRICATIONS

5.1 STRUCTURAL STEEL TO THE FOLLOWING GRADES, UNLESS NOTED OTHERWISE:

ROLLED HP AND W SECTIONS:	CSA G40.21 GRADE 350W
HOLLOW STRUCTURAL SECTIONS:	CSA G40.21 GRADE 350W, CLASS C
PLATES, AND SHAPES:	CSA G40.21 GRADE 300WT, CAT. 4
STRUCTURAL BOLTS, NUTS	
AND WASHERS:	ASTM F3125 GRADE A325, TYPE 1
TIE RODS:	CSA 30.18 517MPa
SHEET PILES:	ASTM A572 GRADE 60
TIMBER BOLTS:	ASTM A307

5.2 WELDING PRACTICE SHALL CONFORM TO CSA W59 AND BE MADE BY CWB QUALIFIED WELDERS.

5.3 HOT-DIP GALVANIZE ALL METAL FABRICATIONS, UNLESS NOTED OTHERWISE, TO ASTM A123/A123M GRADE 100, GALVANIZE ALL HARDWARE IN ACCORDANCE WITH ASTM A153/153M.

5.4 CONTRACTOR TO ENSURE FIT COMPATIBILITY OF CHAINS, SHACKLES, FITTINGS AND METAL FABRICATIONS.

5.5 THE CENTROID AXES OF ALL MEMBERS AT A JOINT SHALL MEET AT A COMMON POINT, UNLESS NOTED OTHERWISE.

5.6 MINIMUM FILLET WELD SIZE SHALL BE 6mm ALL AROUND UNLESS NOTED OTHERWISE, OR OTHERWISE RESTRICTED BY W59. WHERE JOINTS CANNOT BE SEAL WELDED, APPLY SEALANT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. SEALANT TYPE AND USE TO BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.

6.0 SAWN TIMBER

6.1 ALL TIMBER WORK SHALL CONFORM TO CSA 086.

6.2 PLATE WASHERS SHALL BE USED UNDER THE HEADS AND NUTS OF ALL BOLTS BEARING ON TIMBER. UNLESS NOTED OTHERWISE, THE SIZE OF WASHER SHALL BE AS FOLLOWS:

BOLT DIAMETER	WASHER SIZE
ø20 (19.1mm) [3/4"]	100x100x9.5
ø25 (25.4mm) [1"]	125x125x12.7
ø30 (31.8mm) [1 1/4"]	150x150x12.7

6.3 BULLRAIL TIMBER SHALL BE COAST DOUGLAS FIR, NO. 2 OR BETTER TO THE SIZES INDICATED ON THE DRAWINGS.

6.4 BULLRAIL TIMBER SHALL BE INCISED AND GIVEN AN ACZA SALT PRESERVATIVE TREATMENT TO A NET RETENTION OF 6.4 kg/m³.

6.5 PRESERVATIVE TREATMENT, INSPECTION, AND RE-TREATMENT OF HEAVY TIMBER SHALL BE IN ACCORDANCE WITH CSA 080 AND "BEST MANAGEMENT PRACTICES FOR THE USE OF PRESERVED WOOD IN AQUATIC AND SENSITIVE ENVIRONMENTS" PUBLISHED BY THE WESTERN WOOD PRESERVERS INSTITUTE.

6.6 TREAT ALL NEW BOLT HOLES WITH TWO SEPARATE COATS OF COPPER NAPHTHENATE (COPPER II) PRESERVATIVE AND DIP BOLTS IN PRESERVATIVE PRIOR TO INSTALLATION.

6.7 CUT ALL TIMBERS TO THE REQUIRED LENGTH AND SHAPE PRIOR TO TREATMENT. TREAT APPROVED FIELD CUTS WITH TWO SEPARATE COATS OF COPPER NAPHTHENATE (COPPER II) PRESERVATIVE TO THE APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.

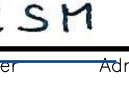
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Revision	Description	Date
Client		client

PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA

310 - 269 MAIN STREET
WINNIPEG, MANITOBA, R3C 1B3

Project title
ARCTIC BAY, NUNAVUT

ARCTIC BAY
HARBOUR DEVELOPMENT

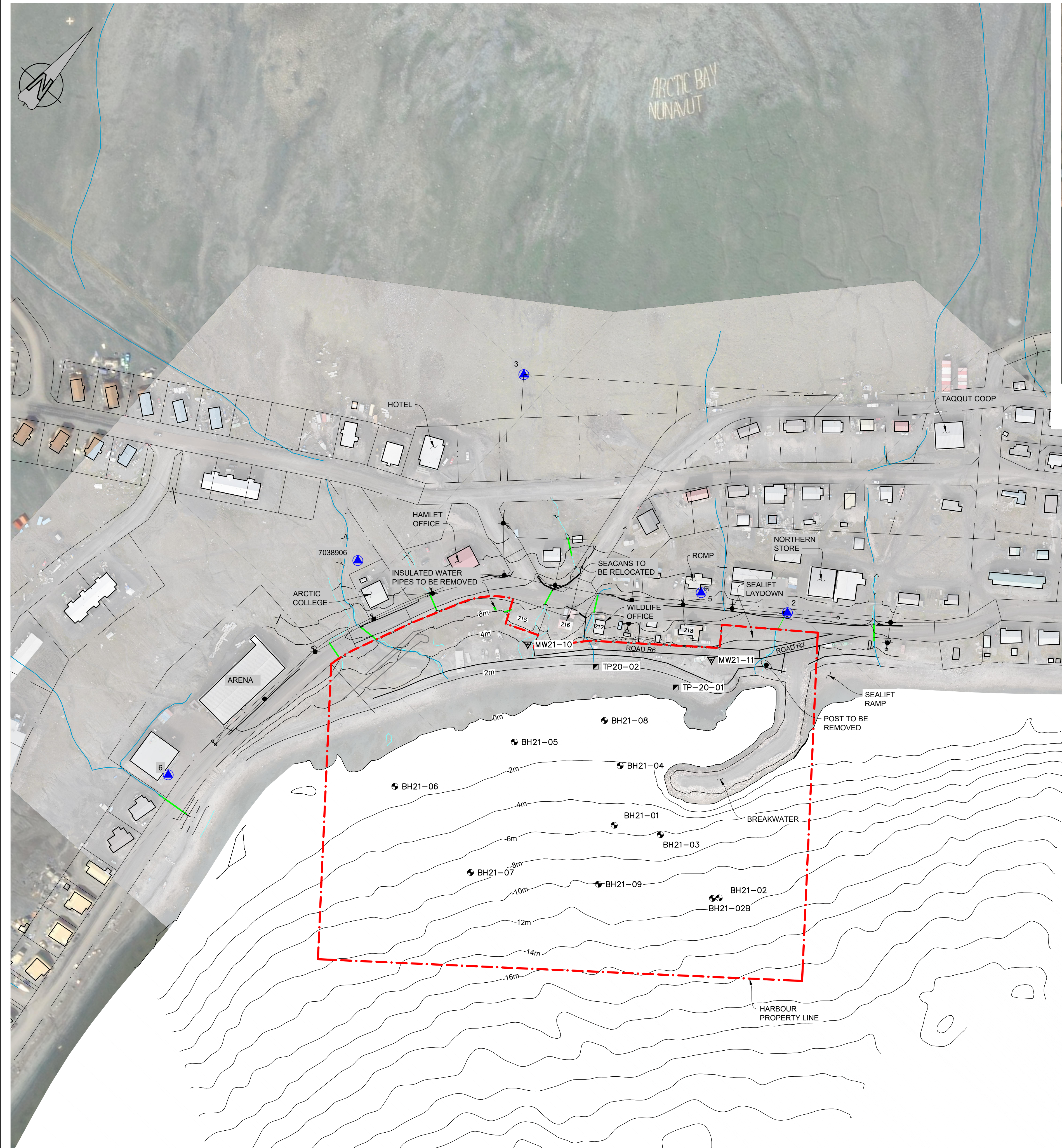
Designed by KATIE MORRISON	Conçu par 
Drawn by JENNIFER COPPENDALE	Dessiné par 
Approved by CHRIS MEISL	Approuvé par 

PWSSC Project Manager
KENTON THIESSEN

Drawing title
DESIGN CRITERIA
AND GENERAL NOTES

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.110729.001	C02	1

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PLAN
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KEY PLAN
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SMALL CRAFT HARBOURS
PORTS POUR PETITS BATEAUX

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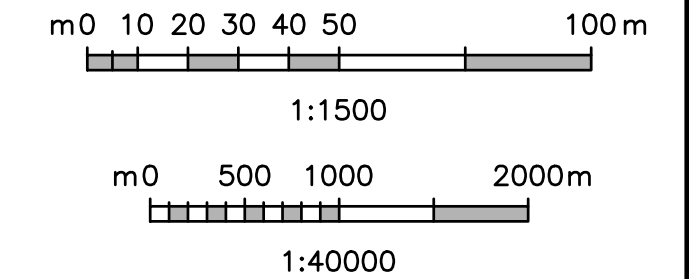
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LEGEND:

- MONUMENT
- POWER POLE
- CULVERT
- TEST PIT
- BOREHOLE
- MONITORING WELL
- PROJECT QUARRY

NOTES:

- FOR DESIGN CRITERIA AND GENERAL NOTES, SEE DWG. C02.
- ALL ELEVATIONS ARE REFERENCED TO HYDROGRAPHIC TIDE AND CHART DATUM, UNLESS NOTED OTHERWISE.



TEST LOCATION			
DESCRIPTION		NORTHING	EASTING
BOREHOLE	BH21-01	8105041.90	559993.40
	BH21-02	8105052.90	560083.30
	BH21-02B	8105049.40	560079.80
	BH21-03	8105058.70	560022.30
	BH21-04	8105076.30	559968.40
	BH21-05	8105038.90	559901.20
	BH21-06	8104959.00	559858.80
	BH21-07	8104949.10	559939.50
	BH21-08	8105092.80	559938.80
	BH21-09	8105003.20	560012.80
MONITORING WELL	MW21-10	8105096.90	559862.30
	MW21-11	8105175.40	559966.90
TEST PIT	TP20-01	8105144.00	559961.00
	TP20-02	8105117.30	559908.90

MONUMENTS					
MONUMENT NUMBER	NORTHING	EASTING	CGVD2013 EL. (m)	CHART DATUM EL. (m)	DESCRIPTION
1	8102670.814	560303.216	6.9910	8.7710	ROCK POST
2	8105236.181	559984.959	5.0650	6.8450	REBAR POST AB-CP1
3	8105237.995	559733.022	31.9060	33.6860	CAPPED POST X-CROSS
4	8105506.344	558627.705	131.7870	133.5670	ROCK POST
5	8105206.090	559929.814	7.6410	9.4210	PUNCH MARK
6	8104858.272	559733.267	6.2150	7.9950	PUNCH MARK
1001	8100689.086	563262.728	2.1250	3.9050	ROCK POST CHS BM1
7038906	8105061.206	559732.714	14.7390	16.5190	ROCK POST GN MARKER
7038931	8104063.408	559813.765	9.9160	11.6960	ROCK POST GN MARKER

Designed by
PAIGE CROMPTON

Conçu par

Drawn by
JENNIFER COPPENDALE

Dessiné par

Approved by
Harald Kullmann

Approuvé par

PWSSC Project Manager
KENTON THIESSEN

Administrateur de Projets TPSSC

Drawing title
EXISTING SITE PLAN

Titre du dessin

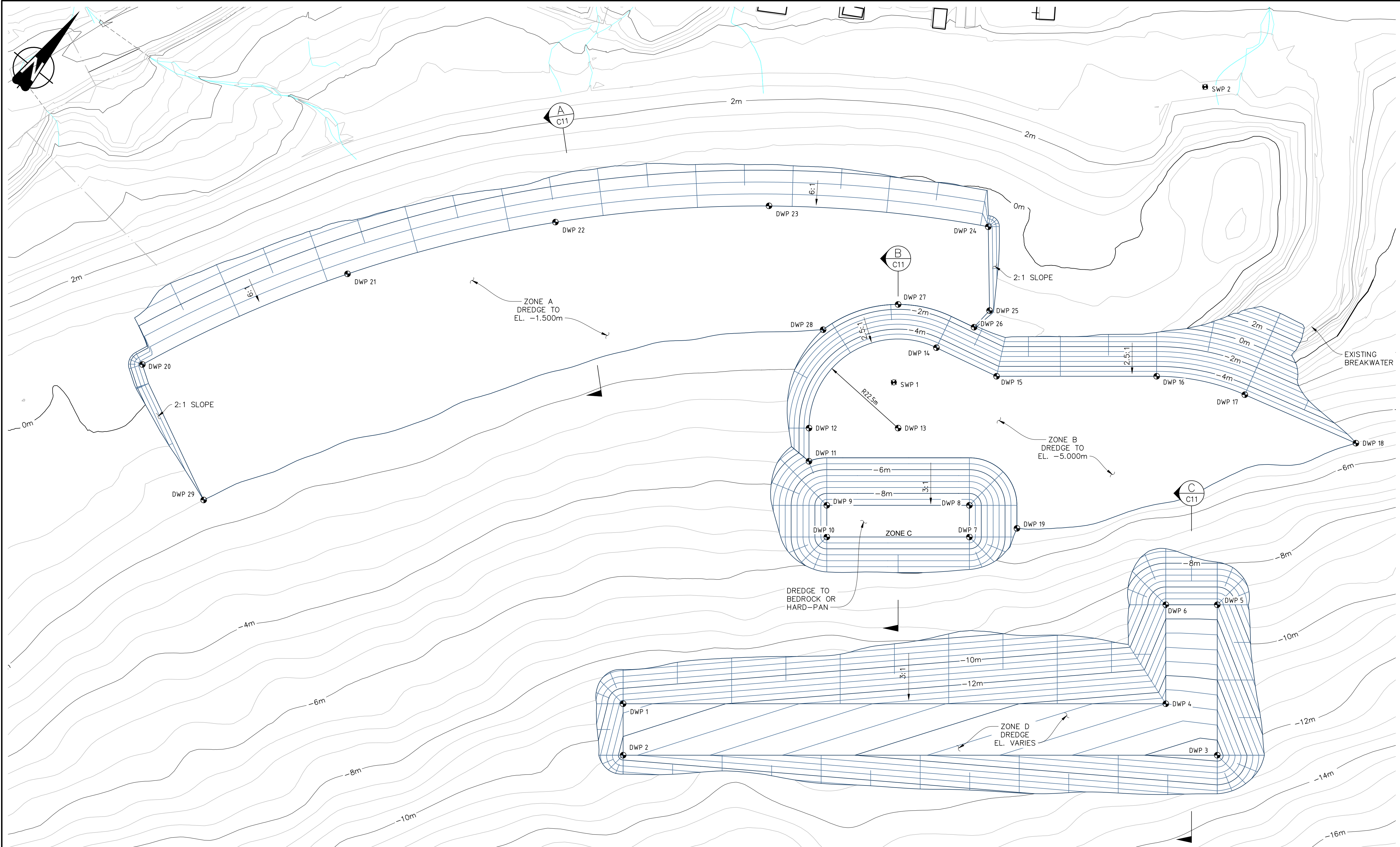
Project no./No. du projet
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Drawing no./No. du dessin
C03

Revision no.
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Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.110729.001	C05	0

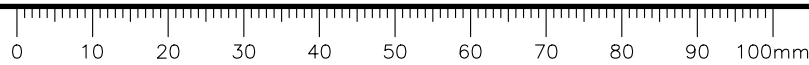
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PLAN
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WORKPOINT COORDINATES			
POINT #	NORTHING	EASTING	ELEVATION (m)
DWP 1	8104976.425	559975.295	-11.30
DWP 2	8104966.322	559983.476	-12.40
DWP 3	8105060.718	560100.050	-16.50
DWP 4	8105062.640	560081.766	-15.00
DWP 5	8105090.250	560076.136	-11.50
DWP 6	8105082.069	560066.033	-11.50
DWP 7	8105064.181	560016.724	BEDROCK
DWP 8	8105070.398	560011.690	BEDROCK
DWP 9	8105047.743	559983.712	BEDROCK
DWP 10	8105041.526	559988.746	BEDROCK
DWP 11	8105053.556	559973.214	-5.00
DWP 12	8105060.066	559967.943	-5.00
DWP 13	8105074.225	559985.429	-5.00
DWP 14	8105096.009	559980.158	-5.00
DWP 15	8105100.039	559996.507	-5.00
DWP 16	8105125.477	560027.922	-5.00

WORKPOINT COORDINATES			
POINT #	NORTHING	EASTING	ELEVATION (m)
DWP 17	8105135.868	560048.139	-5.00
DWP 18	8105143.997	560077.643	-5.00
DWP 19	8105073.420	560024.684	-5.00
DWP 20	8104966.645	559827.038	-1.50
DWP 21	8105017.028	559852.879	-1.50
DWP 22	8105060.230	559885.449	-1.50
DWP 23	8105097.348	559924.768	-1.50
DWP 24	8105128.075	559971.110	-1.50
DWP 25	8105111.820	559984.698	-1.50
DWP 26	8105106.096	559984.292	-1.50
DWP 27	8105098.509	559965.765	-1.50
DWP 28	8105081.622	559955.067	-1.50
DWP 29	8104949.789	559860.067	-1.50
SWP 1	8105082.516	559977.316	N/A
SWP 2	8105189.995	559991.429	N/A



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SMALL CRAFT HARBOURS
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LEGEND:

DWP XX

DREDGE WORKPOINT

SWP XX

SPECIAL WORKPOINT

NOTES:

1. FOR DESIGN CRITERIA AND GENERAL NOTES, SEE DWG. C02.

2. ALL ELEVATIONS ARE REFERENCED TO HYDROGRAPHIC TIDE AND CHART DATUM.

3. FOR WORK ASSOCIATED WITH SWP1 AND SWP2, REFER TO SPECIFICATION 35 20 23.

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ISSUED FOR TENDER

2022/02/22

Revision

Description

Date

Client

client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

310 - 269 MAIN STREET
WINNIPEG, MANITOBA, R3C 1B3

Project title

Projet

ARCTIC BAY, NUNAVUT

ARCTIC BAY HARBOUR DEVELOPMENT

Designed by

Conçu par

PAIGE CROMPTON

Drawn by

Dessiné par

JENNIFER COPPENDALE

Approved by

Approuvé par

HARALD KULLMANN

PWSSC Project Manager

Administrateur de Projets TPSSC

KENTON THIESSEN

Drawing title

Titre du dessin

DREDGE PLAN

Project no./No. du projet

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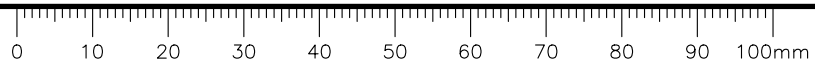
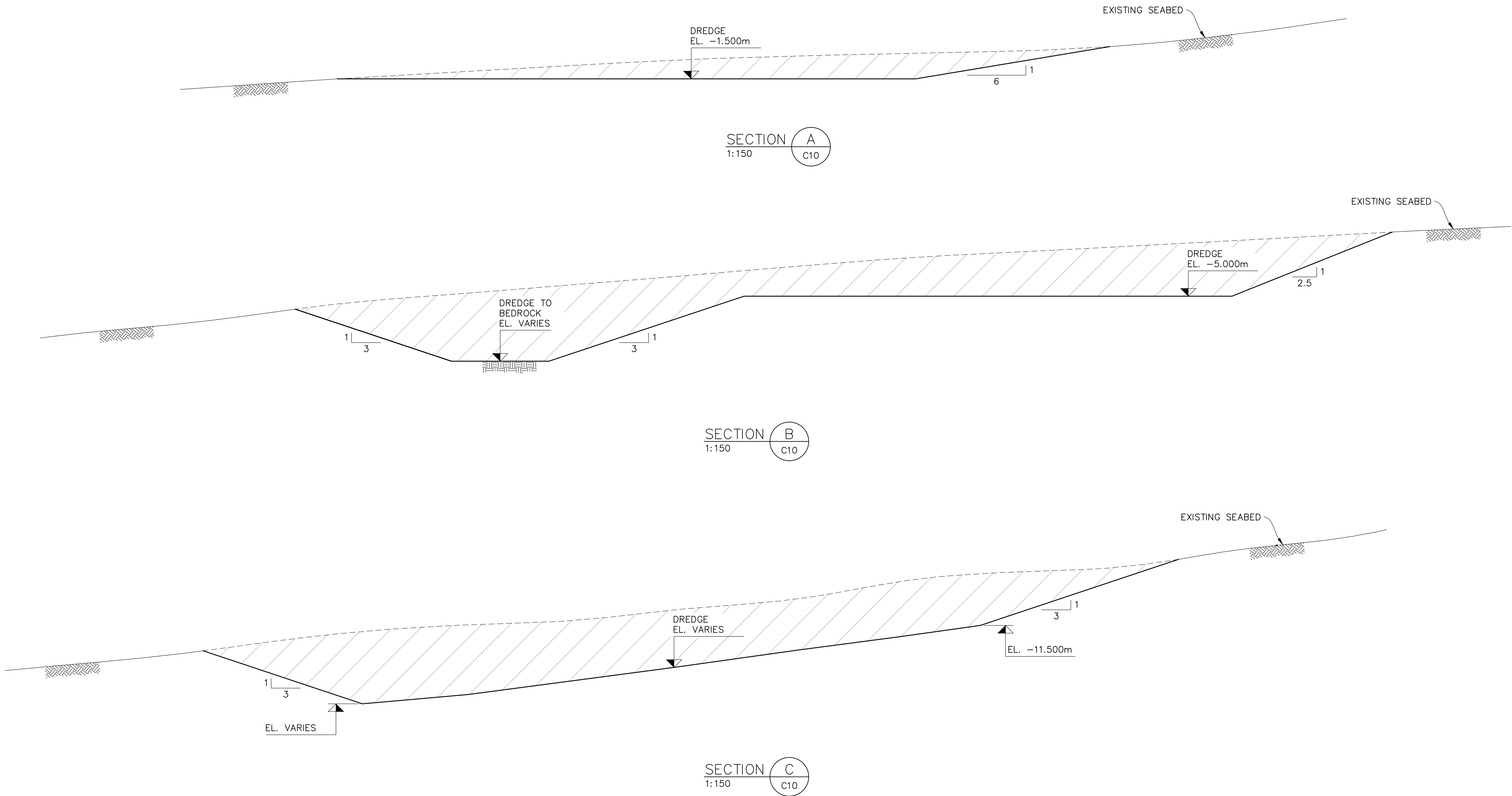
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NOTES:

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1:150

Revision	Description	Date
0	ISSUED FOR TENDER	2022/02/22

Client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

310 - 269 MAIN STREET
WINNIPEG, MANITOBA, R3C 1B3

Project title

ARCTIC BAY, NUNAVUT

ARCTIC BAY HARBOUR DEVELOPMENT

Designed by

PAIGE CROMPTON

Drawn by

JENNIFER COPPENDALE

Approved by

HARALD KULLMANN

PWSSC Project Manager

KENTON THIESSEN

Conçu par

Dessiné par

Approuvé par

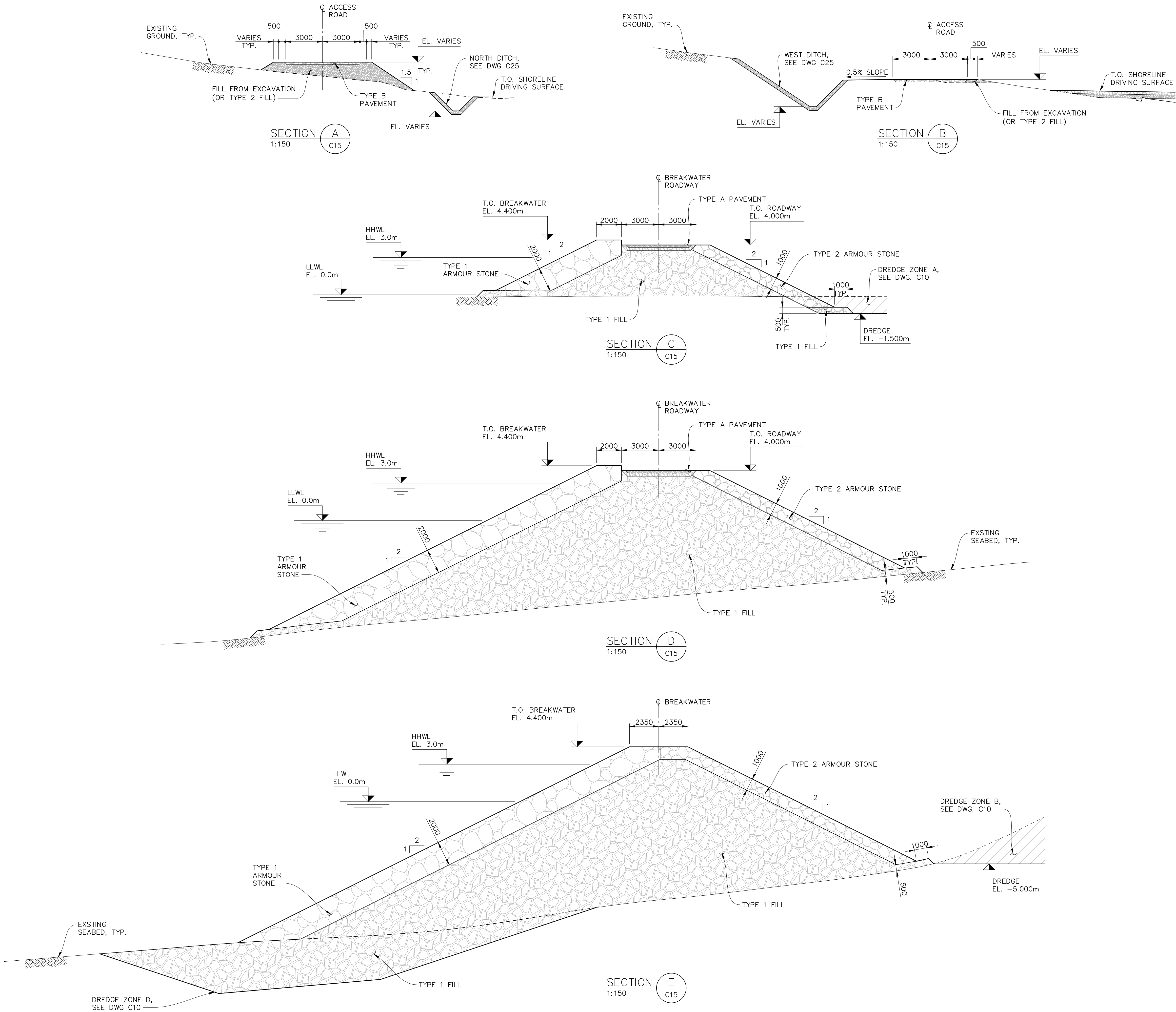
Administrateur de Projets TPSSC

Titre du dessin

DREDGE SECTIONS

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.110729.001	C11	0

Filename: U:\WP\R\317071\00037_PWGS_ArcBay\CES\11_Drawings\15_L_and_E\02_Marine\B-110729-001-C16.dwg
Last Saved: Feb. 24/22 11:03am Plotted: Feb. 24/22



Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES

Western Region

SERVICES IMMOBILIERS

Région de l'ouest

Fisheries and Oceans Canada

Pêches et Océans Canada

SMALL CRAFT HARBOURS

PORTS POUR PETITS BATEAUX

Advisian

إكسپرایک سروسز لیمیٹد

317071-00037

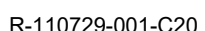
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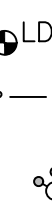
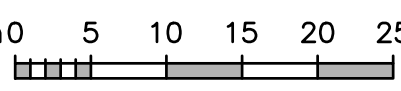
NOTES:

1. FOR DESIGN CRITERIA AND GENERAL NOTES, SEE DWG. C02.
2. ALL ELEVATIONS ARE REFERENCED TO HYDROGRAPHIC TIDE AND CHART DATUM.
3. FOR PAVEMENT DETAILS, SEE DWG C26.

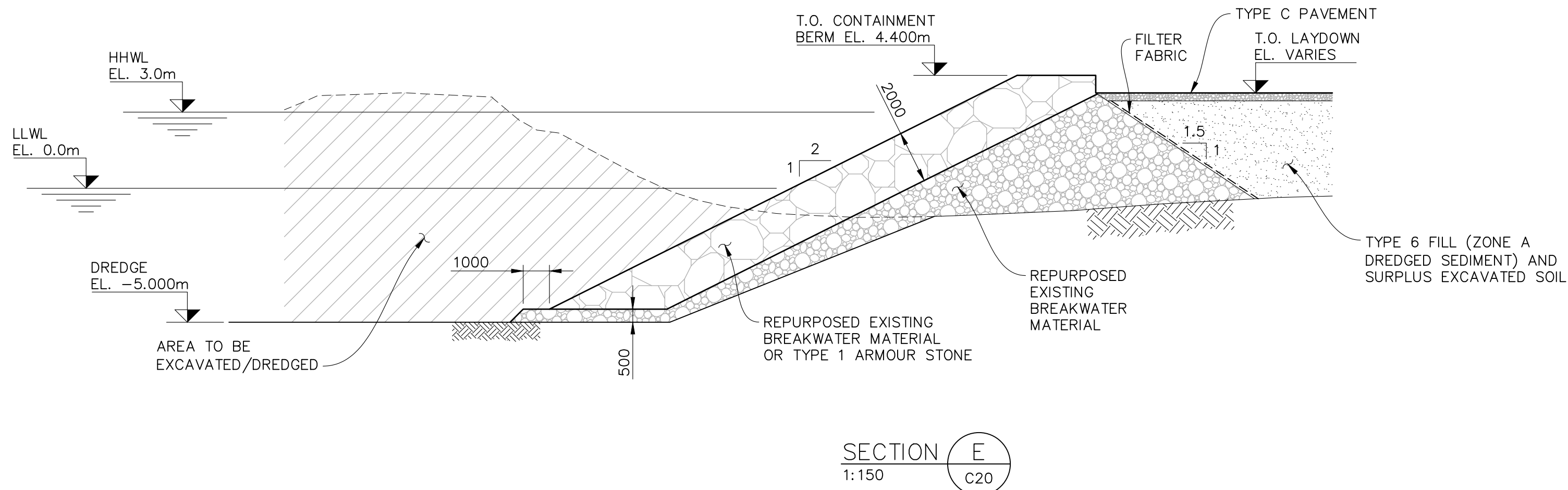
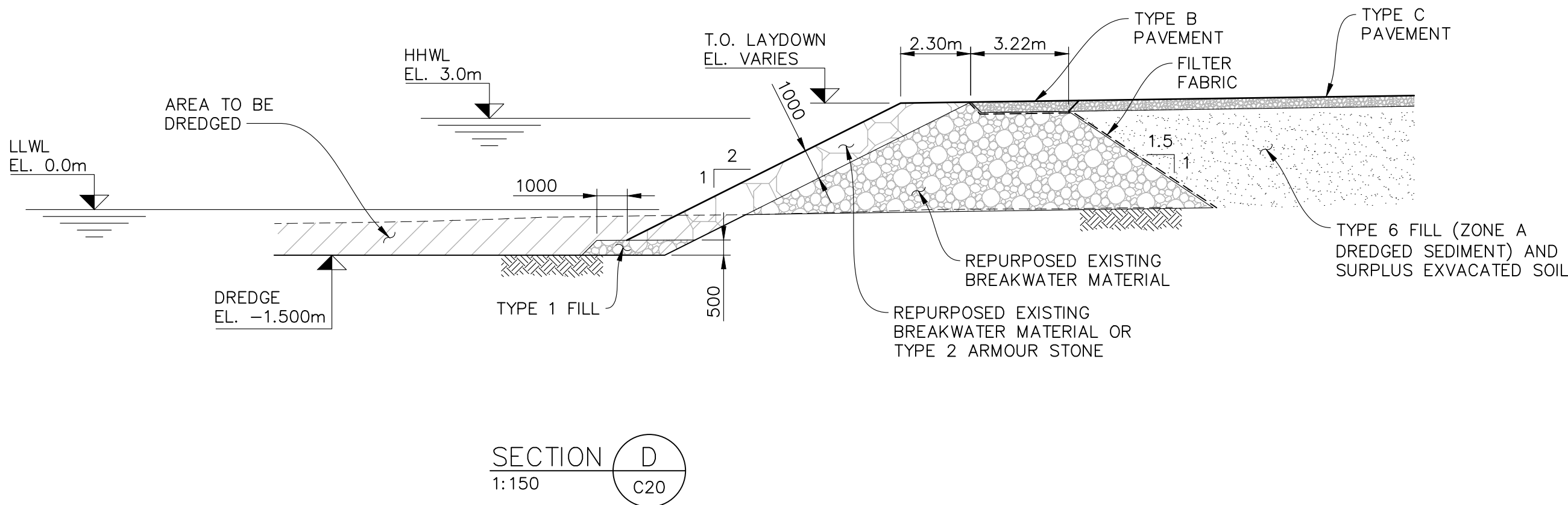
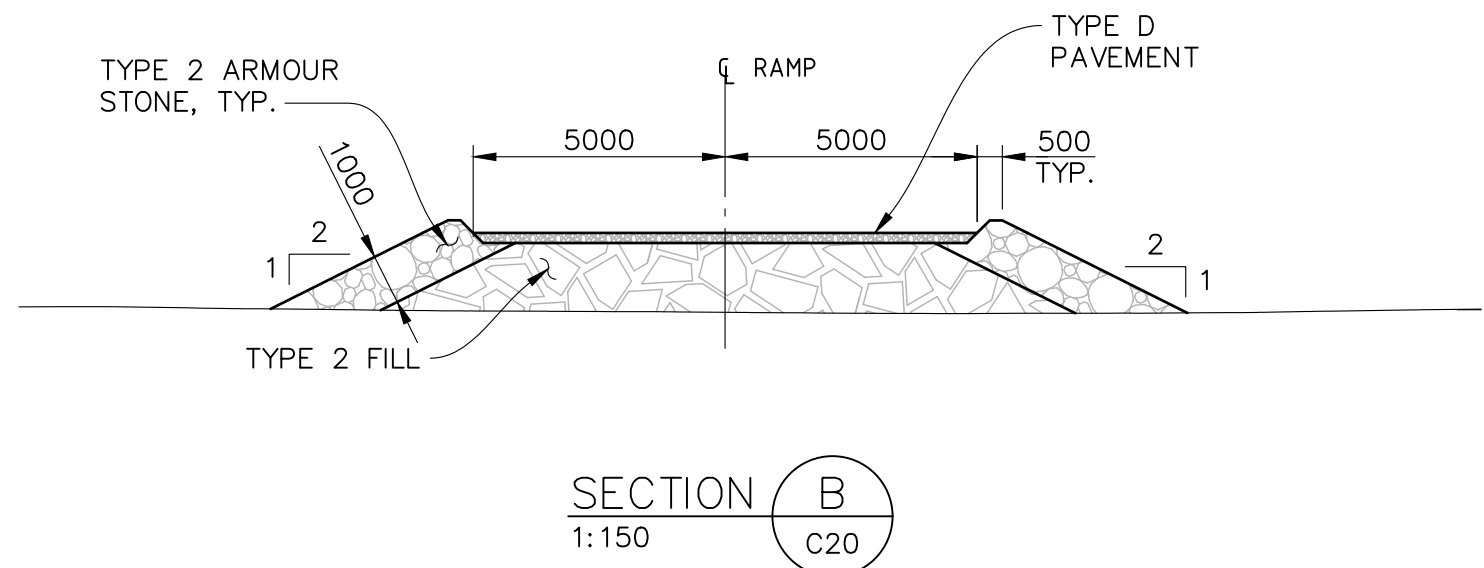
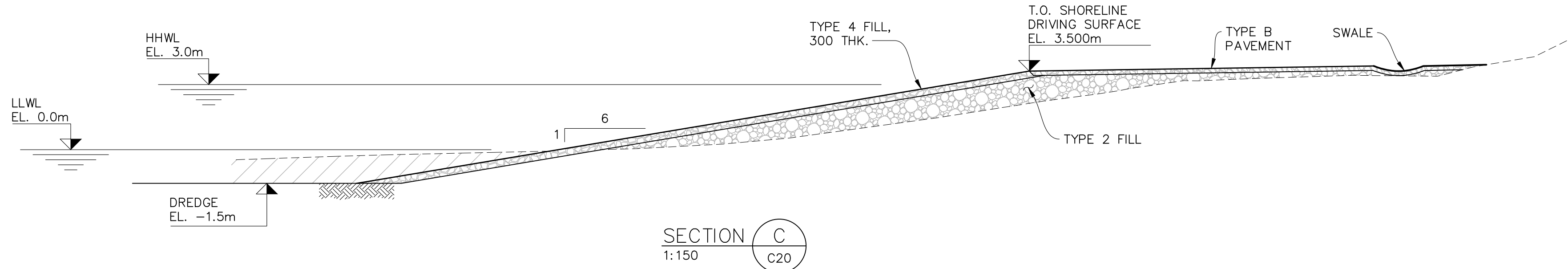
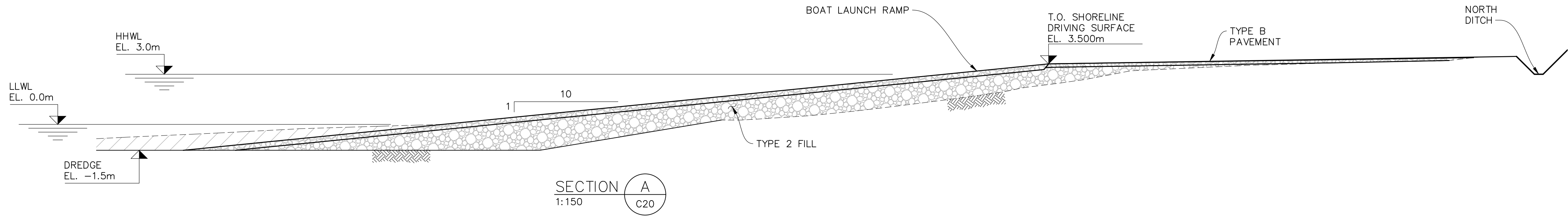
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1:150

0	ISSUED FOR TENDER	2022/02/22
Revision	Description	Date
Client		client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA 310 - 269 MAIN STREET WINNIPEG, MANITOBA, R3C 1B3		
Project title	Projet	
ARCTIC BAY, NUNAVUT		
ARCTIC BAY HARBOUR DEVELOPMENT		
Designed by	Conçu par	
PAIGE CROMPTON		
Drawn by	Dessiné par	
JENNIFER COPPENDALE		
Approved by	Approuvé par	
HARALD KULLMANN		
PWGSC Project Manager	Administrateur de Projets IPSOC	
KENTON THIESSEN		
Drawing title	Titre du dessin	
ACCESS ROAD AND BREAKWATER SECTIONS		
Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.110729.001	C16	0

PWGSC - A1 - 841X594

	Public Works and Government Services Canada	Travaux publics et Services gouvernementaux Canada
REAL PROPERTY SERVICES Western Region SERVICES IMMOBILIERS Région de l'ouest		
	Fisheries and Oceans Canada	Pêches et Océans Canada
	SMALL CRAFT HARBOURS TPSC pour petits bateaux PORTS POUR PETITS BATEAUX	
 ᐱᐱᐱᐱᐱᐱ ᐱᐱᐱᐱᐱᐱ Ikpriaryuk Services Ltd. 317071-00037  THIS DRAWING IS PREPARED FOR THE USE OF THE CONTRACTUAL CUSTOMER OF WORLEY CANADA SERVICES LTD. AND WORLEY CANADA SERVICES LTD. ASSUMES NO LIABILITY TO ANY OTHER PARTY FOR ANY REPRESENTATIONS CONTAINED IN THIS DRAWING.		
LEGEND:  LD XX  POWER LINES  PROPOSED POWER POLE AND LIGHTING (TO BE CONFIRMED BY QEC)  MW21-XX  LLWL (0.0m)  HHWL (3.0m) LAYDOWN WORKPOINT MONITORING WELL NOTES: - FOR DESIGN CRITERIA AND GENERAL NOTES, SEE DWG. C02. - ALL ELEVATIONS ARE REFERENCED TO HYDROGRAPHIC TIDE AND CHART DATUM. - FOR MONITORING WELLS, LOWER MW21-10 AND RAISE MW21-11 (REFER TO SPECIFICATION 31 23 23), SEE DWG. C03 FOR COORDINATES.  1:500		
0	ISSUED FOR TENDER	2022/02/22
Revision	Description	Date
Client	client	
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA 310 - 269 MAIN STREET WINNIPEG, MANITOBA, R3C 1B3		
Project title	Project	
ARCTIC BAY, NUNAVUT ARCTIC BAY HARBOUR DEVELOPMENT		
Designed by		Conçu par
PAIGE CROMPTON		
Drawn by		Dessiné par
JENNIFER COPPENDALE		
Approved by		Approuvé par
ARALD KULLMANN		
PWSC Project Manager		Administrateur de Projets TPSGC
KENTON THIESSEN		
Drawing title	Titre du dessin	
LAYDOWN, SHORELINE AND LAUNCH RAMP PLAN		
Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.110729.001	C20	0

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Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

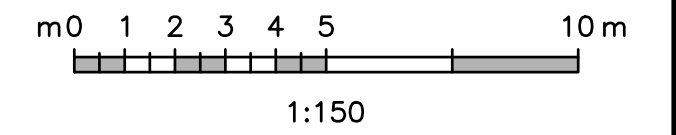
REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

Fisheries and Oceans Canada
Pêches et Océans Canada

SMALL CRAFT HARBOURS
PORTS POUR PETITS BATEAUX

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- NOTES:
- FOR DESIGN CRITERIA AND GENERAL NOTES, SEE DWG. C02.
 - FOR PAVEMENT DETAILS, SEE DWG C26.



Revision	Description	Date
0	ISSUED FOR TENDER	2022/02/22

Client: client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

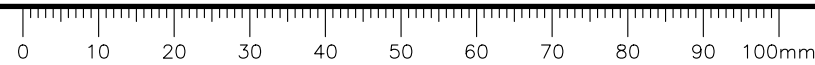
310 - 269 MAIN STREET
WINNIPEG, MANITOBA, R3C 1B3

Project title: ARCTIC BAY, NUNAVUT

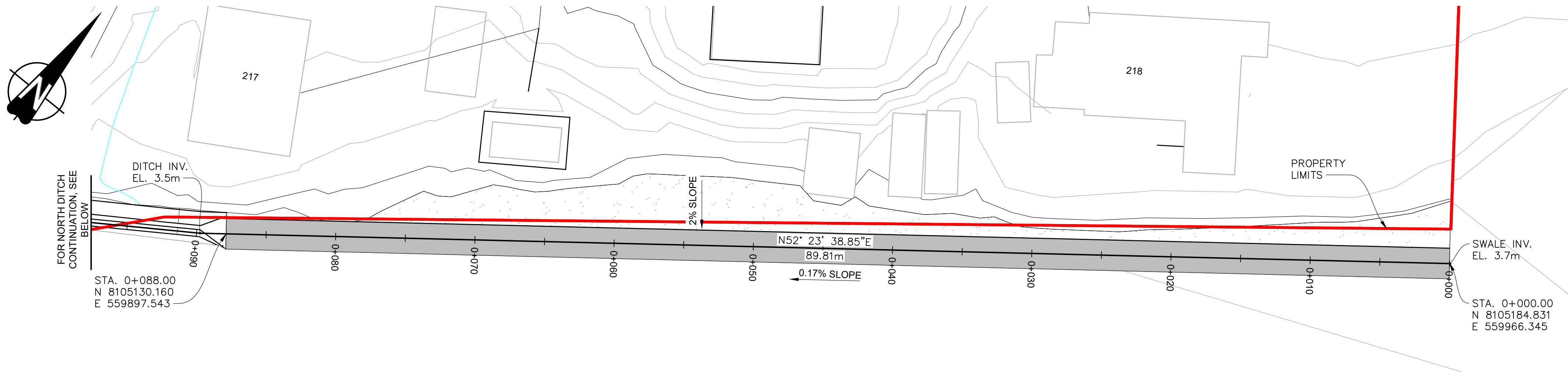
ARCTIC BAY HARBOUR DEVELOPMENT

Designed by: PAIGE CROMPTON
Drawn by: JENNIFER COPPENDALE
Approved by: HARALD KULLMANN
PWSSC Project Manager: KENTON THIESSEN
Drawing title: LAYDOWN, SHORELINE AND LAUNCH RAMP SECTIONS

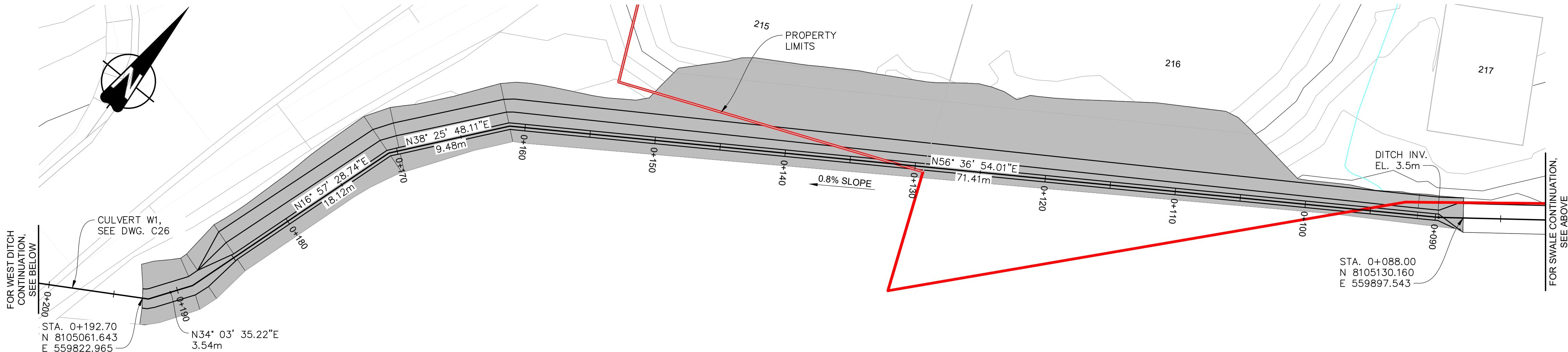
Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.110729.001	C21	0



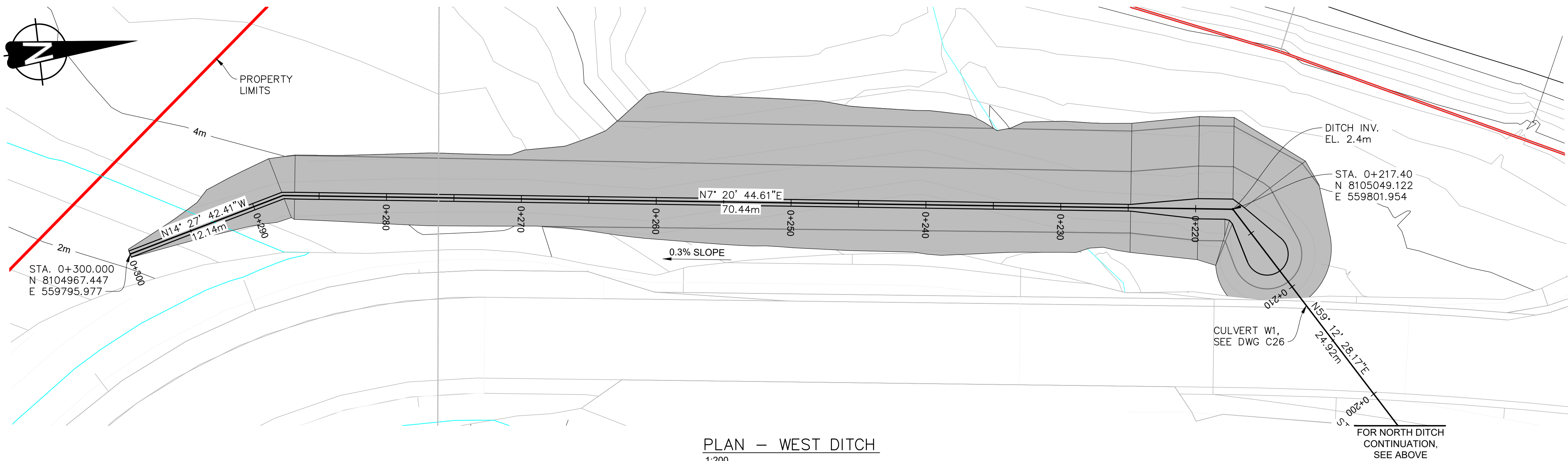
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Last Saved: Dec. 06/24 10:50am. Plotted: Dec. 6/24



PLAN – SWALE
1:200



PLAN – NORTH DITCH
1:200



PLAN – WEST DITCH
1:200



Public Works and
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Canada

Travaux publics et
Services gouvernementaux
Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest



Fisheries and Oceans
Canada

Pêches et Océans
Canada

SMALL CRAFT HARBOURS
PORTS POUR PETITS BATEAUX



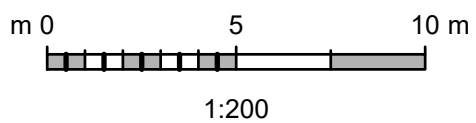
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NOTES:

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- ALL ELEVATIONS ARE REFERENCED TO HYDROGRAPHIC TIDE AND CHART DATUM.



Revision	Description	Date
2	RE-ISSUED FOR TENDER	2024/12/06
1	ISSUED FOR CLIENT REVIEW	2024/11/15
0	ISSUED FOR TENDER	2022/02/22

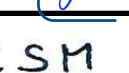
Client: client

**PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA**

310 - 269 MAIN STREET
WINNIPEG, MANITOBA, R3C 1B3

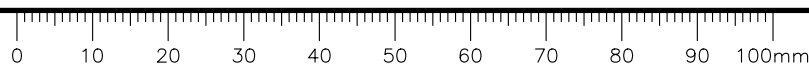
Project title: ARCTIC BAY, NUNAVUT

**ARCTIC BAY
HARBOUR DEVELOPMENT**

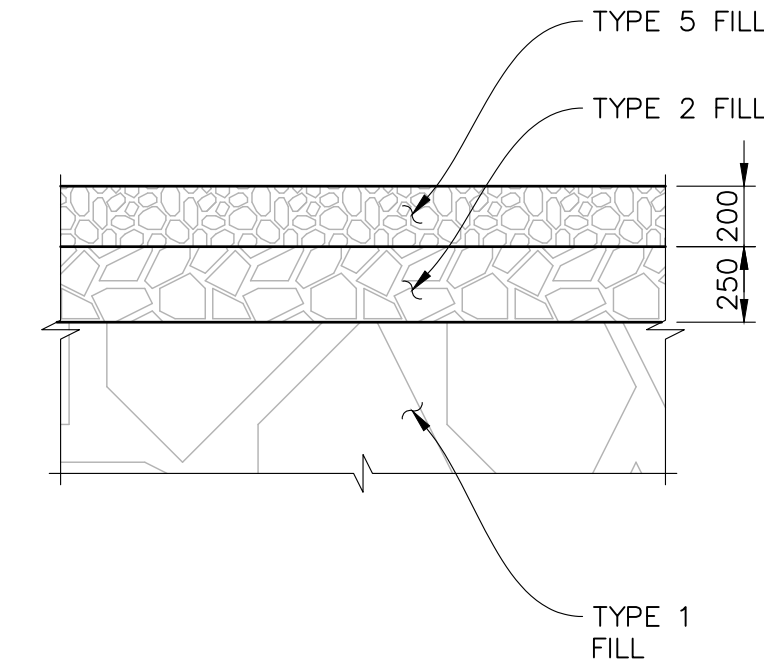
Designed by ANDRE DRATWA	Conçu par 
Drawn by JENNIFER COPPENDALE	Dessiné par 
Approved by CHRIS MEISL	Approuvé par 
PWSSC Project Manager / Administrateur de Projets TPSSC KENTON THIESSEN	

Drawing title: **DRAINAGE AND EARTHWORKS
DITCHES AND SWALE
PLAN**

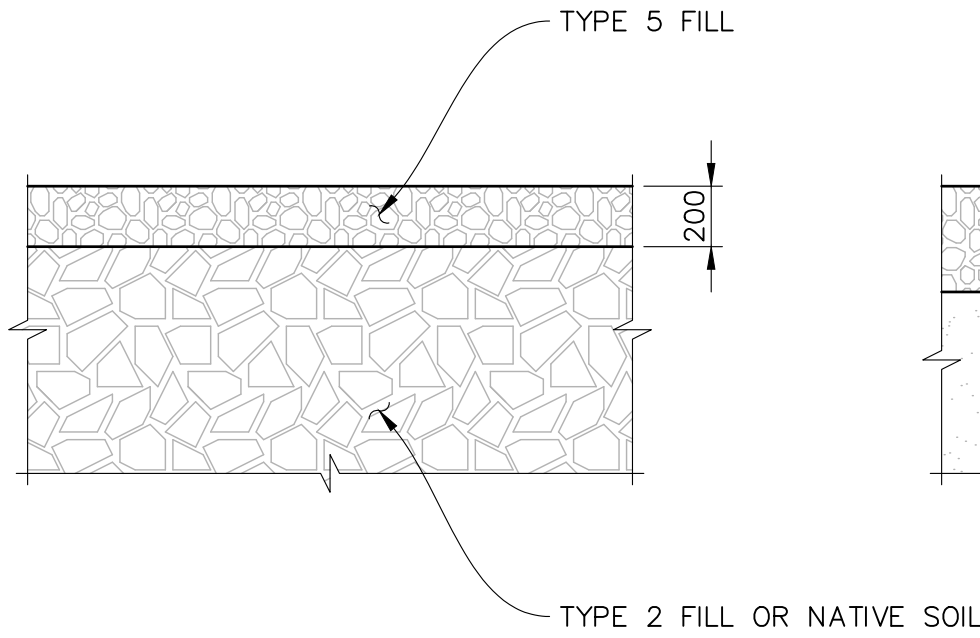
Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.110729.001	C25	2



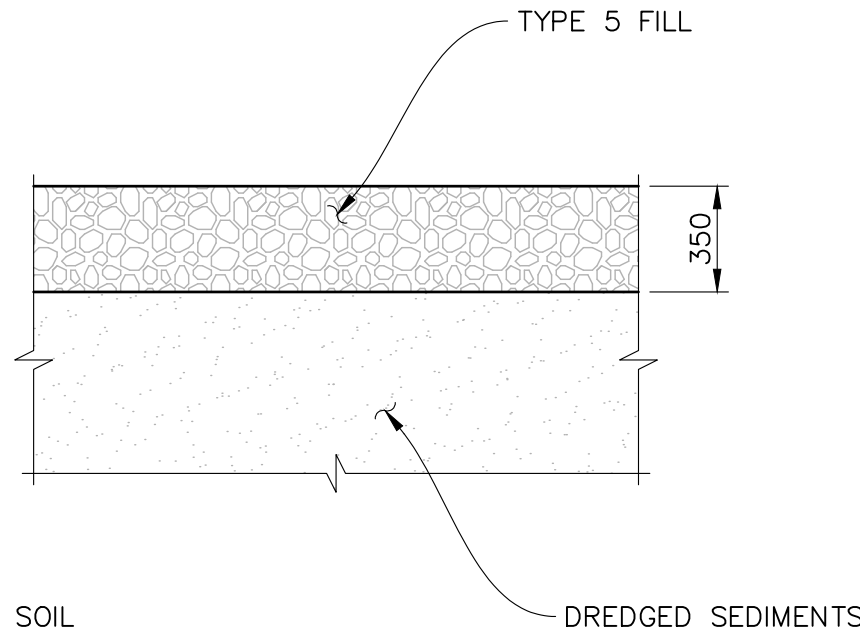
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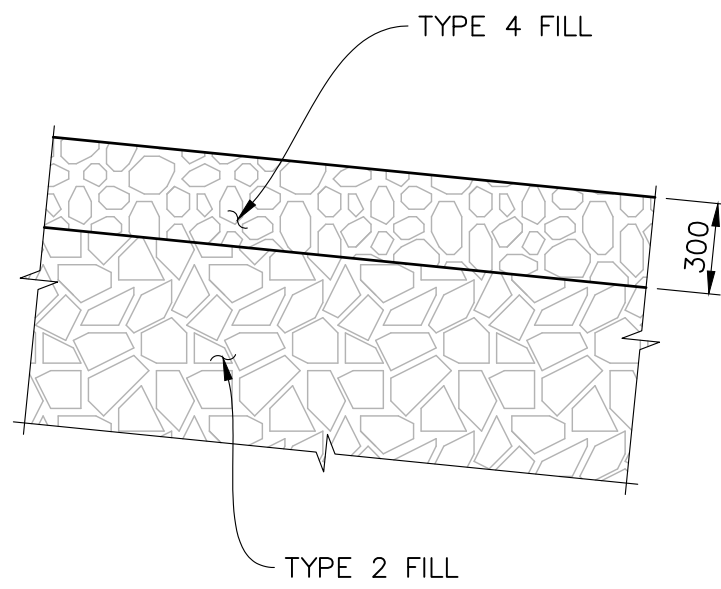
TYPE A PAVEMENT
1:25



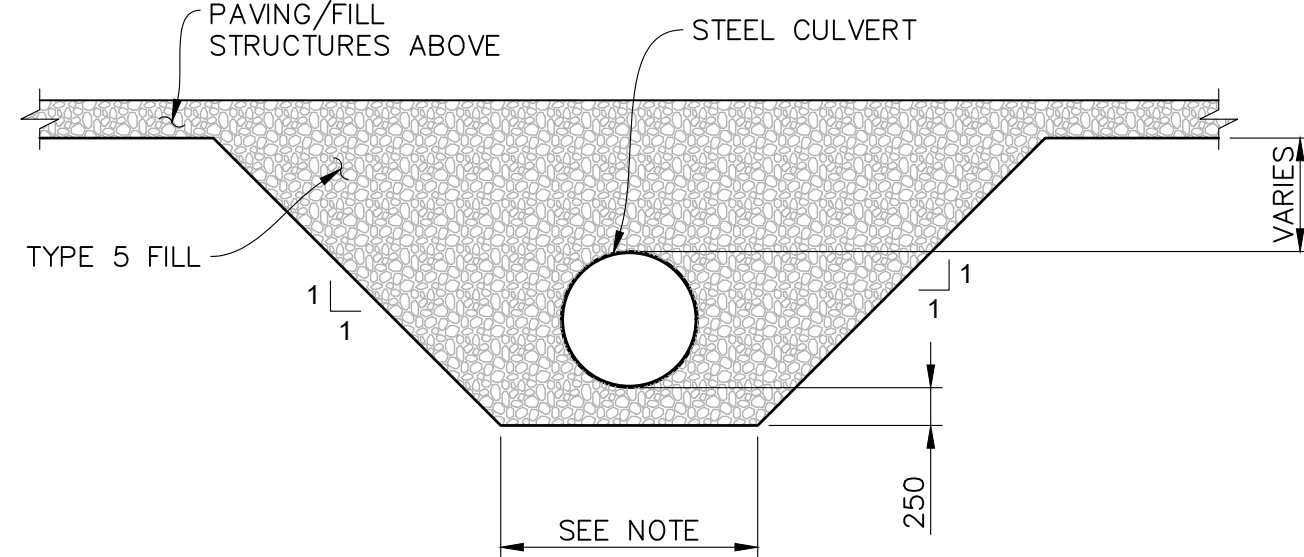
TYPE B PAVEMENT
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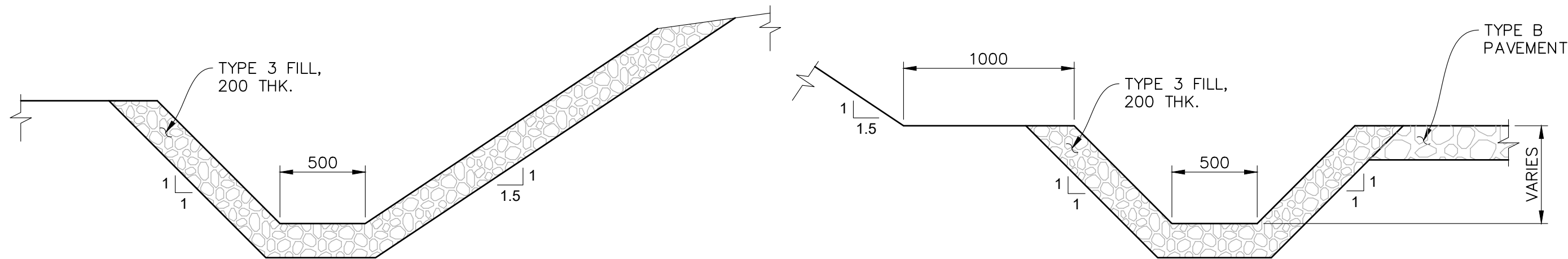
TYPE C PAVEMENT
1:25



TYPE D PAVEMENT
1:25

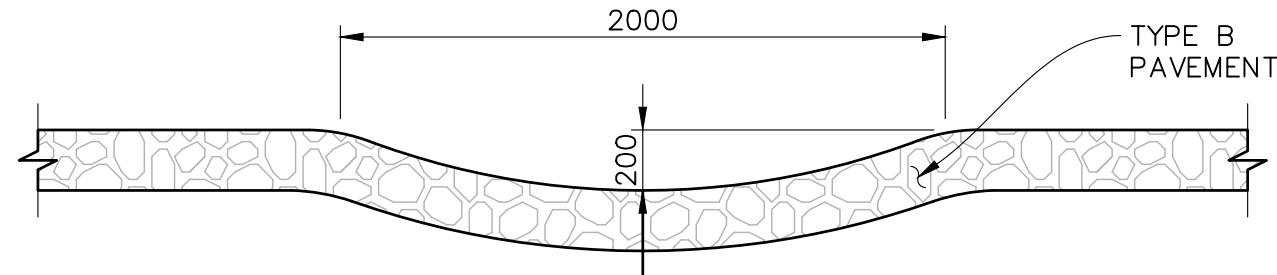


CULVERTS
1:50
NOTE:
1700 FOR 900Ø CULVERT
1000 FOR 600Ø CULVERT

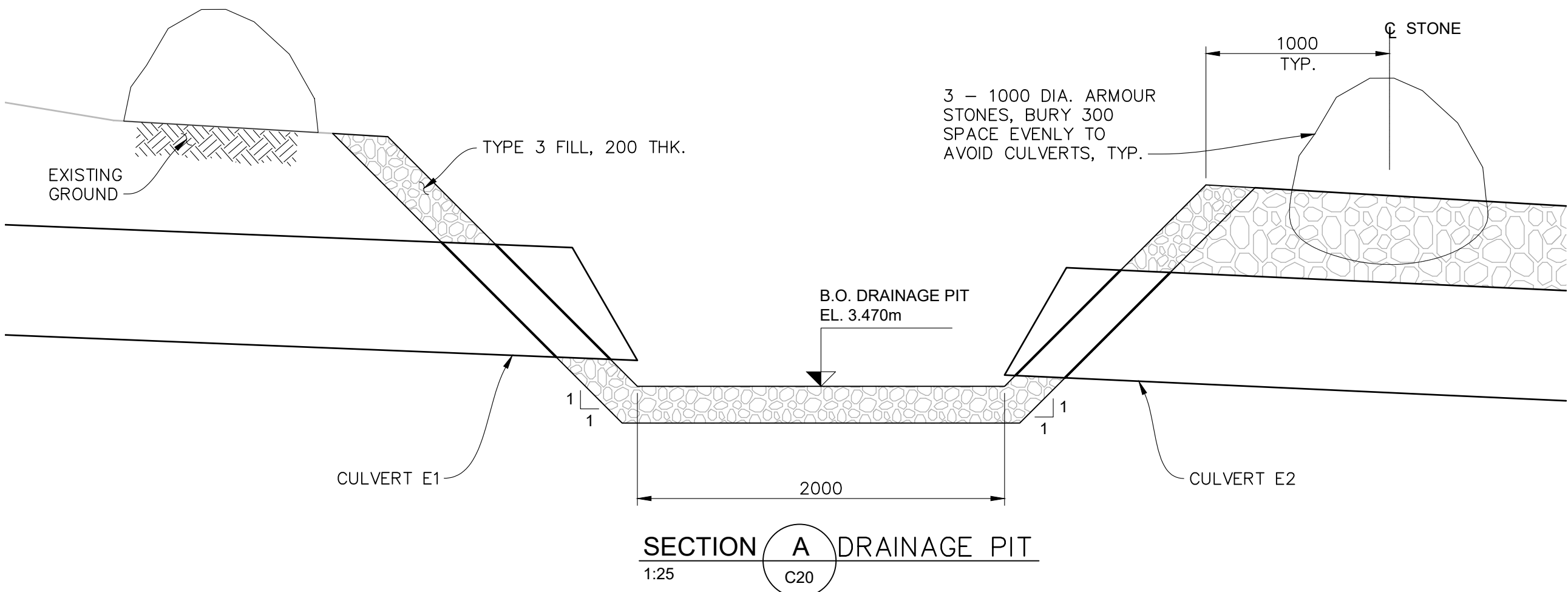


WEST DITCH (LOOKING SOUTH)
1:25
NOTES:
1. INCREASE TYPE 3 LAYER TO 600mm THK. STA. 0+205 TO 0+225
2. WIDEN BASE OF DITCH TO 1500, STA. 0+212 TO 0+217

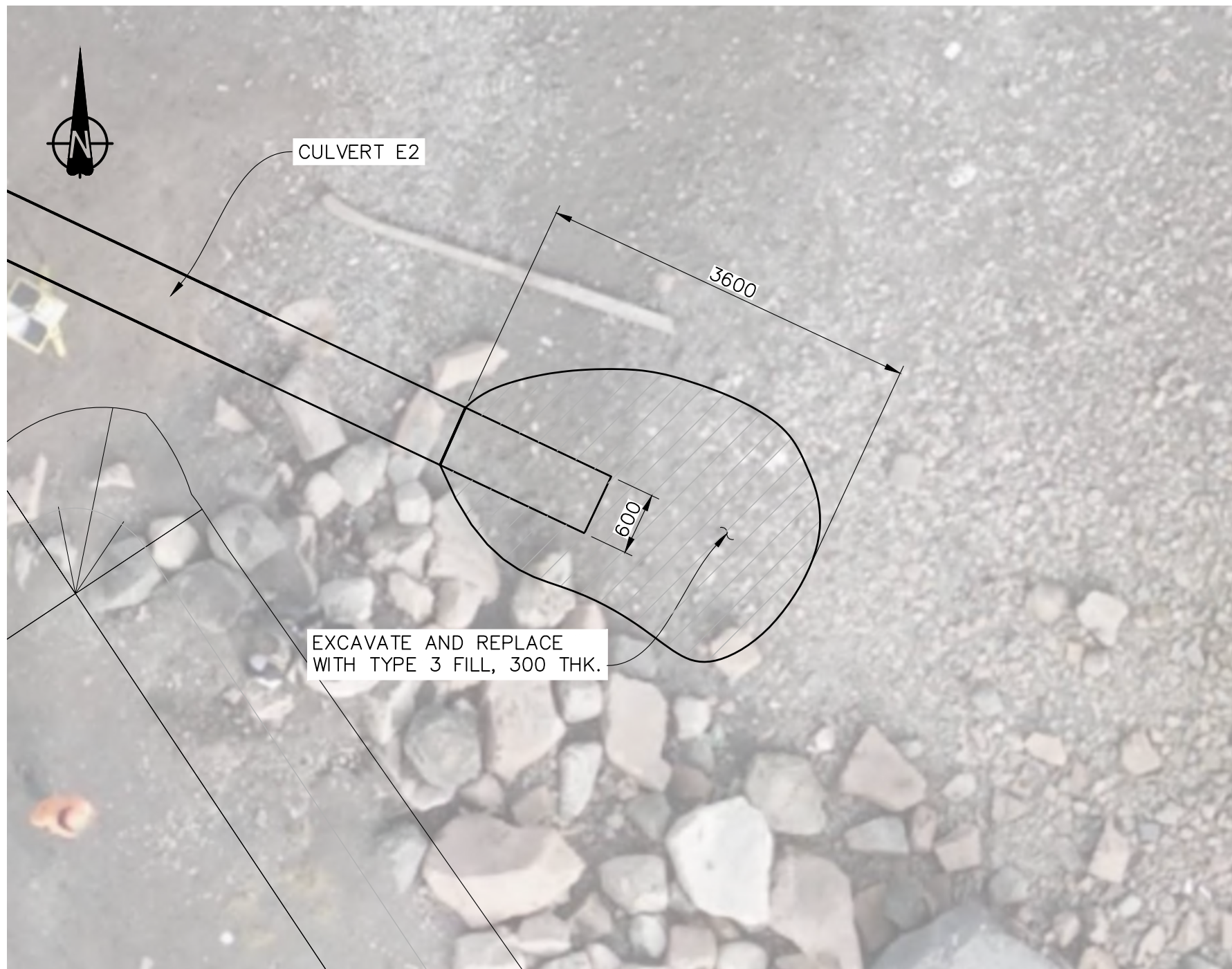
NORTH DITCH (LOOKING EAST)
1:25
NOTES:
1. WIDEN BASE OF DITCH TO 1500, STA. 0+188 TO 0+192



SWALE
1:25



SECTION A DRAINAGE PIT
1:25



DETAIL 1
1:50
C26

CULVERT SCHEDULE						
CULVERT	PIPE	INVERT	NORTHING	EASTING	INVERT EL. (m)	LENGTH (m)
E1	610 DIA. CORRUGATED STEEL PIPE	INLET	8105232.29	599985.43	4.27	16.3 ±
		OUTLET	8105226.74	560001.07	3.61	
E2	600 DIA. x 9.5 STEEL PIPE	INLET	8105225.71	560003.58	3.15	26 ±
		OUTLET	8105216.39	560023.29	2.45	
W1	914 DIA. x 9.5 STEEL PIPE	INLET	8105061.88	559823.36	2.70	21 ±
		OUTLET	8105050.42	559804.14	2.505	

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

Fisheries and Oceans Canada
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SMALL CRAFT HARBOURS
PORTS POUR PETITS BATEAUX

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307071-00037
307071-00037
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NOTES:
1. FOR DESIGN CRITERIA AND GENERAL NOTES, SEE DWG. C02.
2. ALL ELEVATIONS ARE REFERENCED TO HYDROGRAPHIC TIDE AND CHART DATUM.

mm 0 500 1000 1500 mm

1:25

mm 0 500 1000 2500 mm

1:50

2	RE-ISSUED FOR TENDER	2024/12/06
1	ISSUED FOR CLIENT REVIEW	2024/11/15
0	ISSUED FOR TENDER	2022/02/22

Revision	Description	Date
Client		client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

310 - 269 MAIN STREET
WINNIPEG, MANITOBA, R3C 1B3

Project title

ARCTIC BAY, NUNAVUT

Project

ARCTIC BAY HARBOUR DEVELOPMENT

Designed by
ANDRE DRATWA

Drawn by
JENNIFER COPPENDALE

Approved by
CHRIS MEISL

PWSSC Project Manager
KENTON THIESSEN

Conçu par

Dessiné par

Approuvé par

Administrateur de Projets TPSSC

CSM

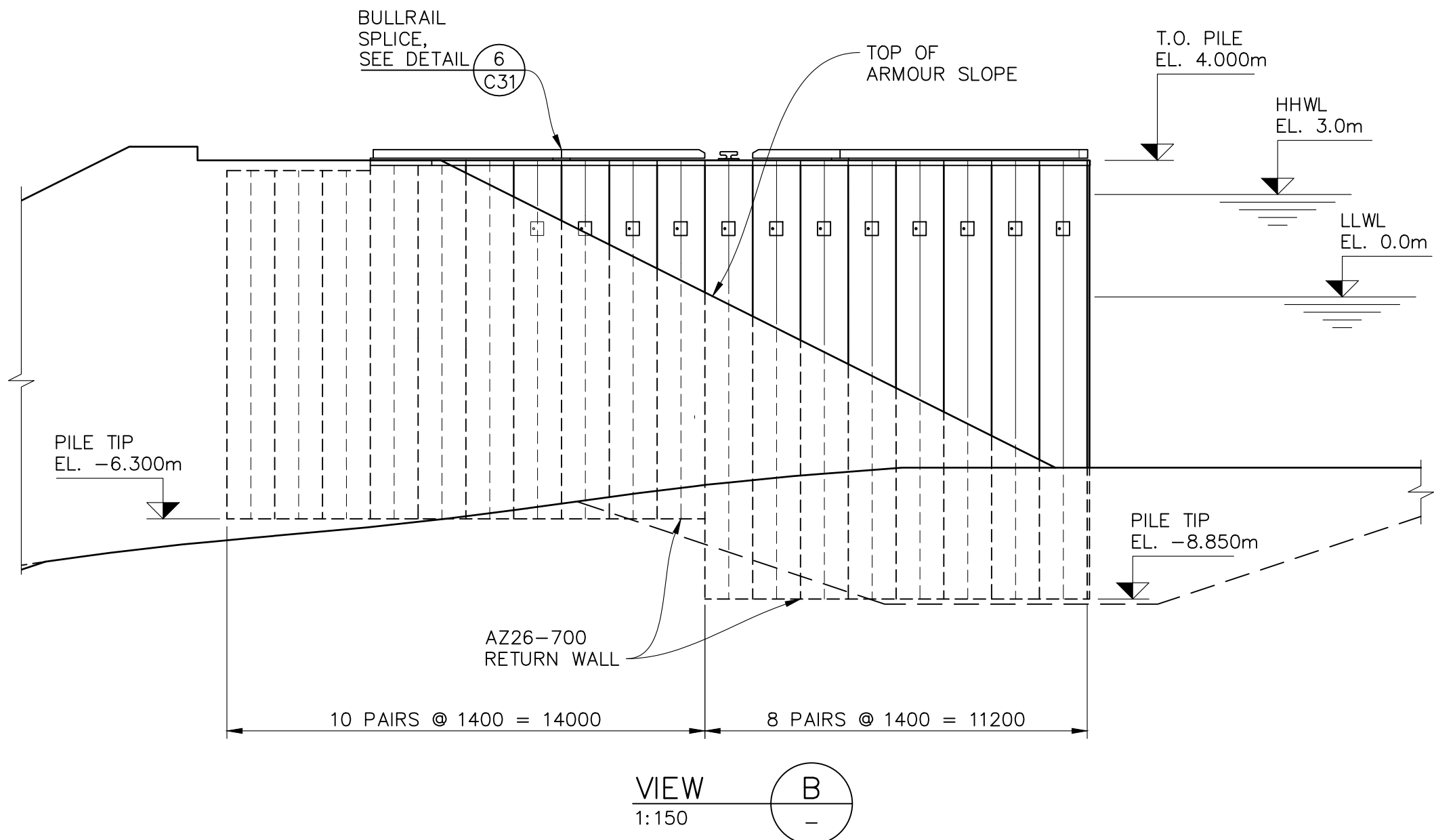
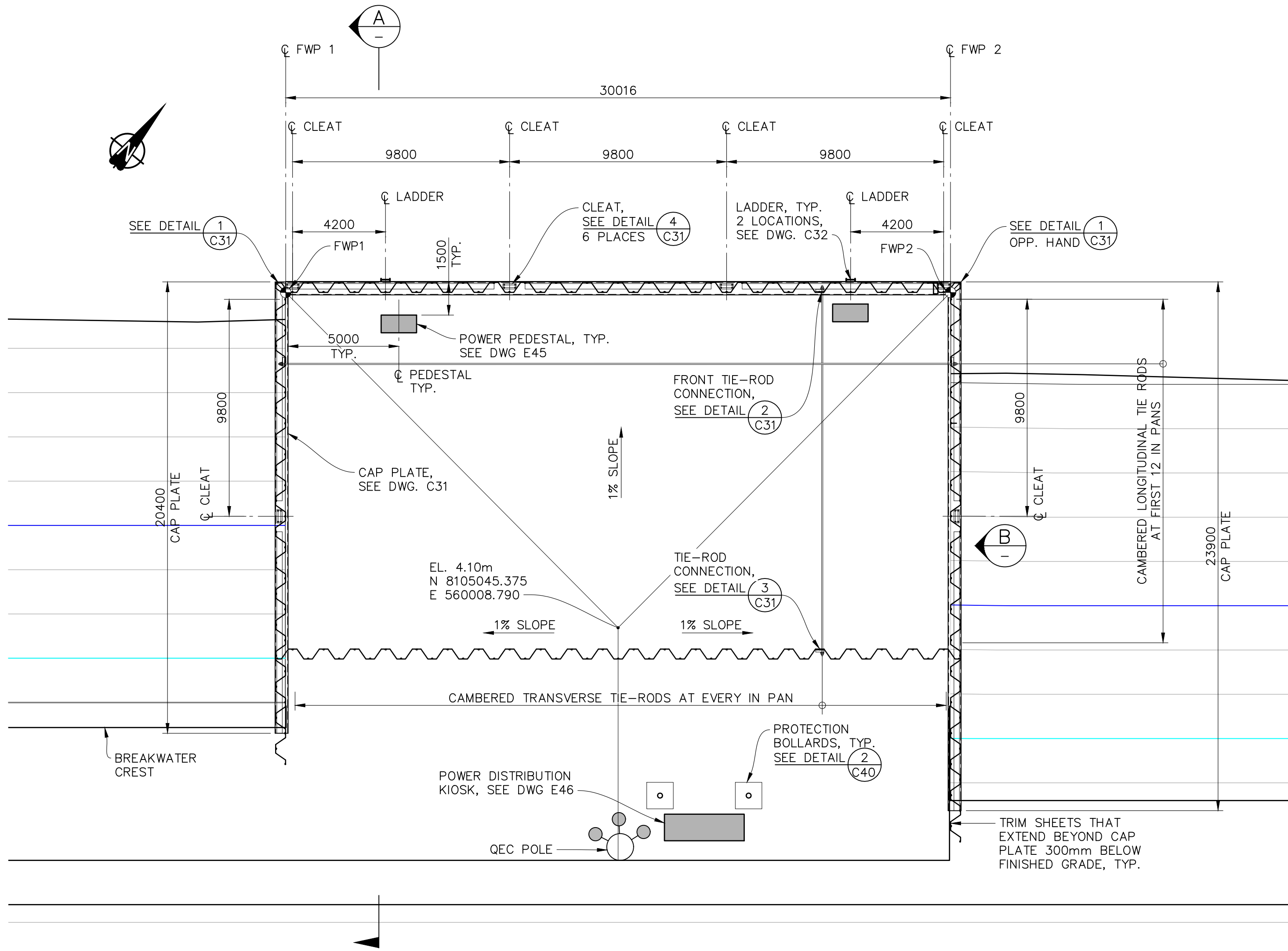
Drawing title

DRAINAGE AND EARTHWORKS DETAILS

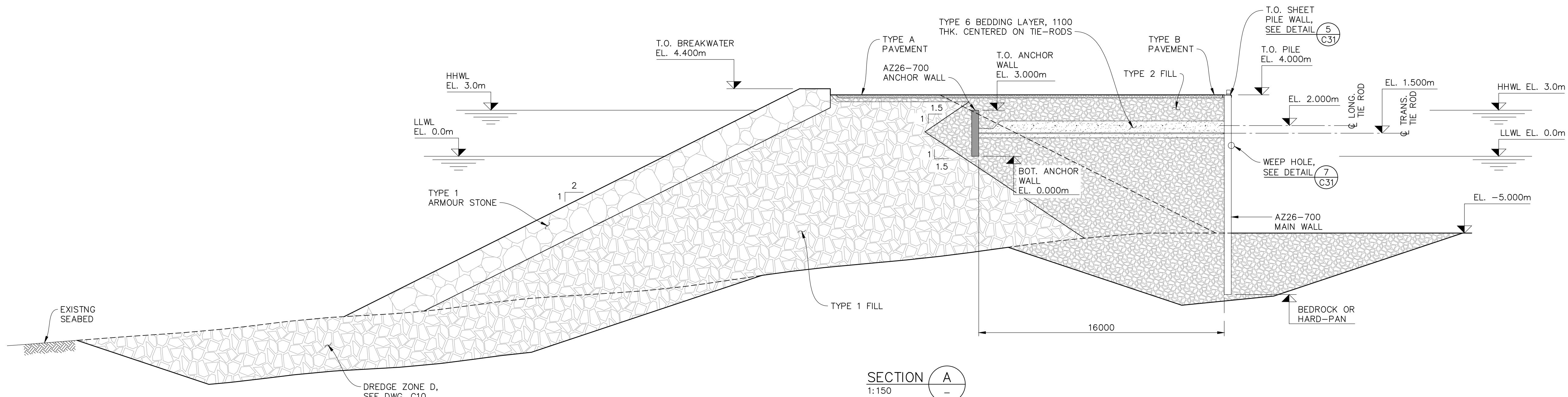
Titre du dessin

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.110729.001	C26	2

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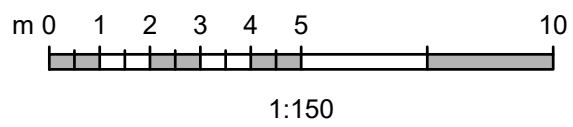


FIXED WHARF WORKPOINTS		
FIXED WHARF POINT	NORTHING	EASTING
FWP1	8105047.699	559987.597
FWP2	8105066.589	560010.924



NOTES:

- FOR DESIGN CRITERIA AND GENERAL NOTES, SEE DWG. C02.
- ALL ELEVATIONS ARE REFERENCED TO HYDROGRAPHIC TIDE AND CHART DATUM.
- FOR PAVEMENT DETAILS, SEE DWG C26.
- SEE SPECIFICATIONS FOR FILL SEQUENCE.



Revision	Description	Date
2	RE-ISSUED FOR TENDER	2024/12/06
1	ISSUED FOR CLIENT REVIEW	2024/11/15
0	ISSUED FOR TENDER	2022/02/28

Client: client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
310 - 269 MAIN STREET
WINNIPEG, MANITOBA, R3C 1B3

Project title: ARCTIC BAY, NUNAVUT

ARCTIC BAY HARBOUR DEVELOPMENT

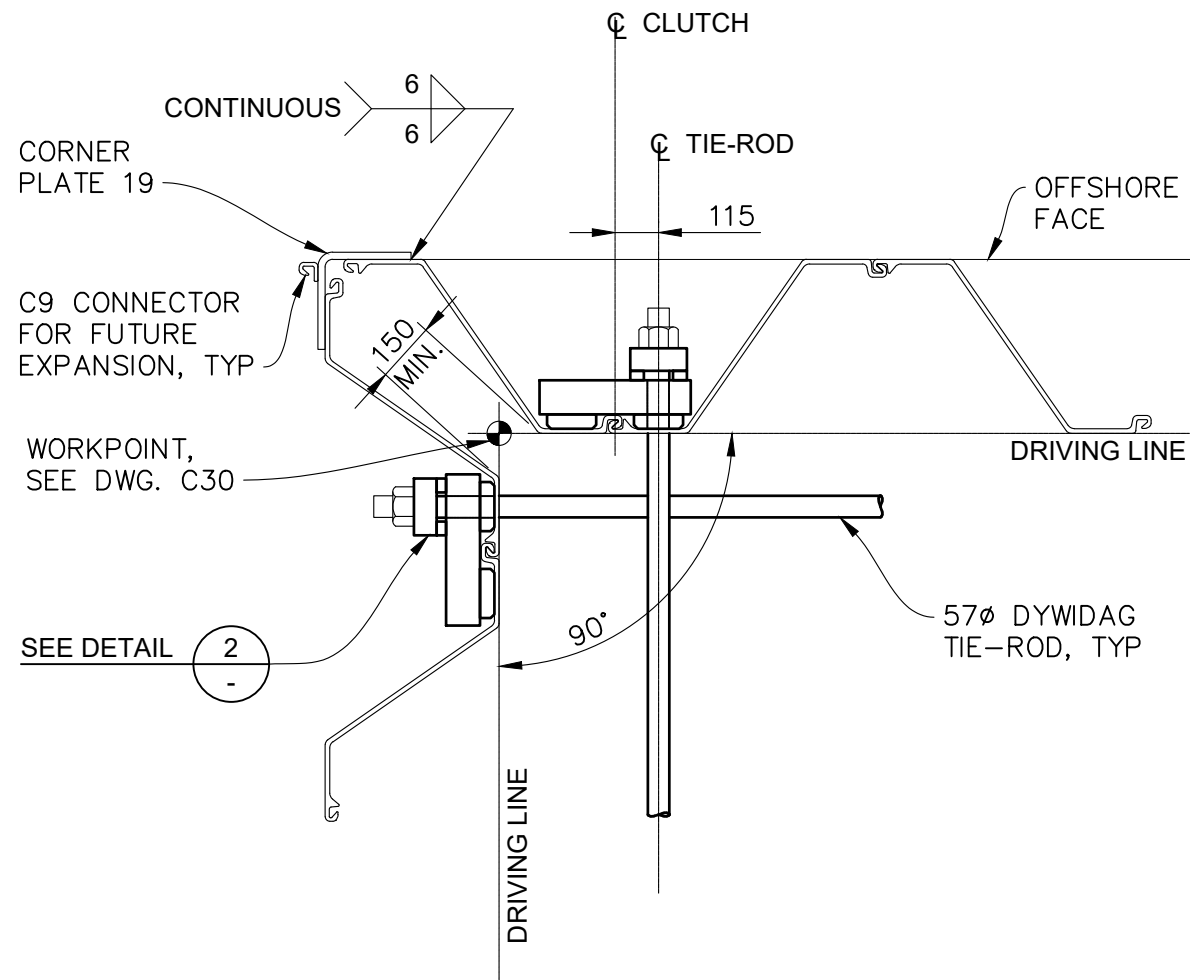
Designed by: KATIE MORRISON
Drawn by: JENNIFER COPPENDALE
Approved by: CHRIS MEISL
PWSCC Project Manager: KENTON THIESSEN

Conçu par: KATIE MORRISON
Dessiné par: JENNIFER COPPENDALE
Approuvé par: CHRIS MEISL
Administrateur de Projets TPSCC: KENTON THIESSEN

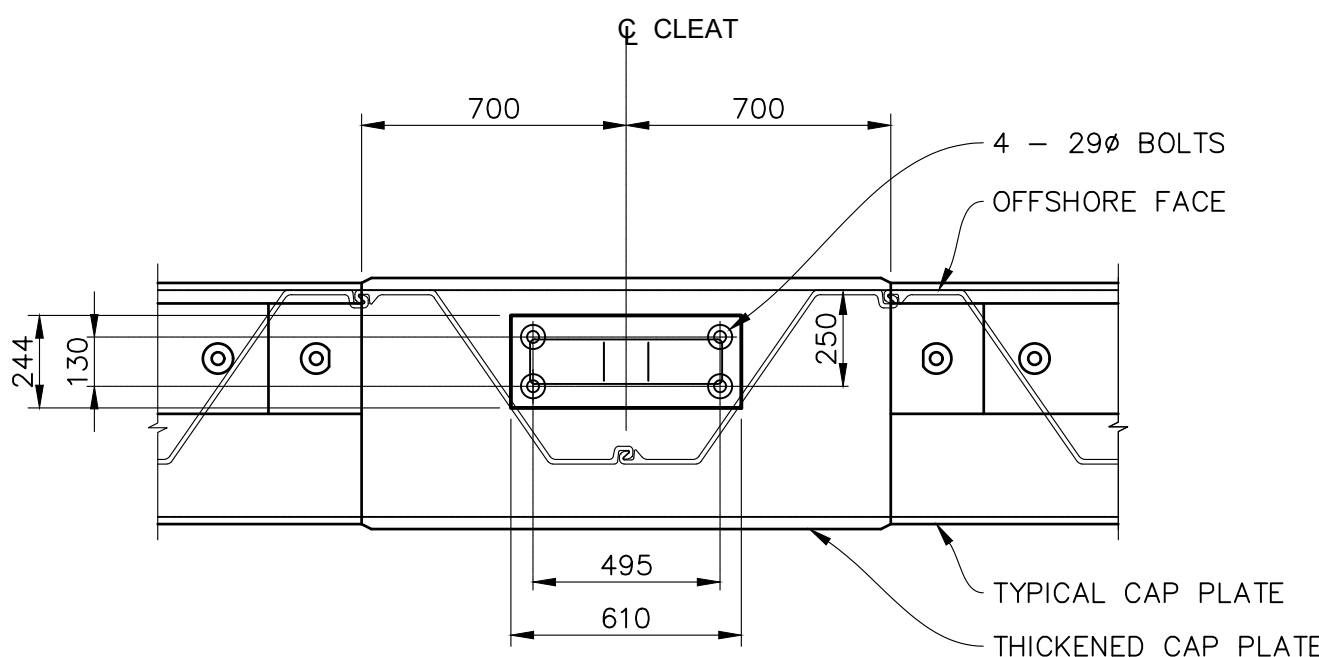
Drawing title: WHARF PLAN AND SECTIONS

Project no./No. du projet: R.110729.001
Drawing no./No. du dessin: C30
Revision no.: 2

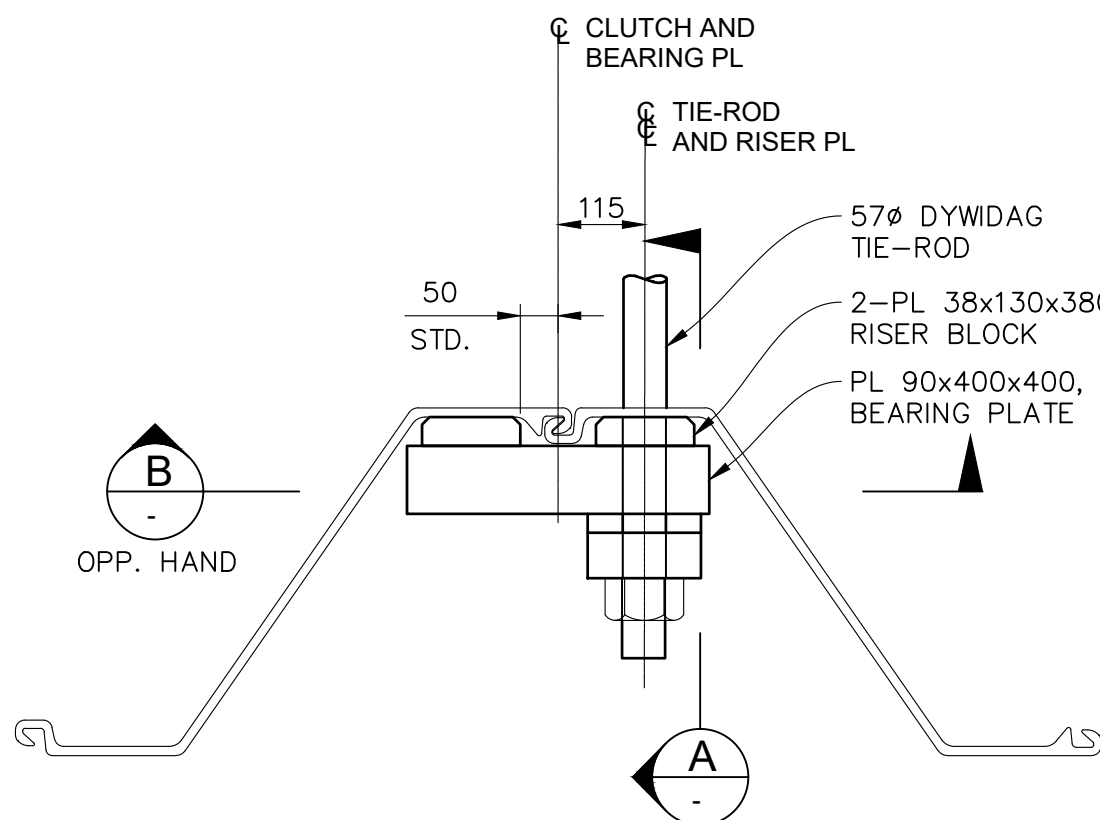
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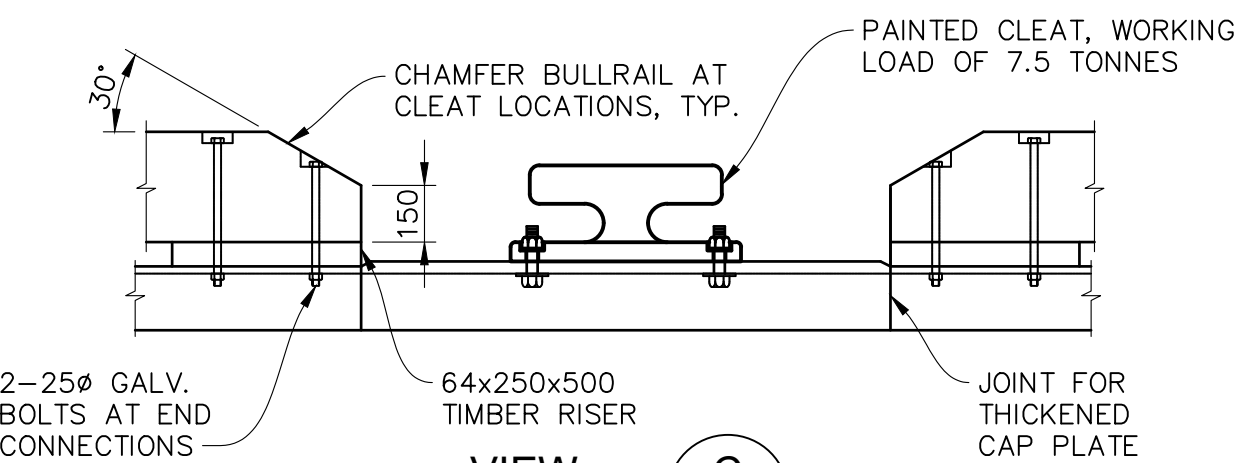
DETAIL 1
1:20
C30
NOTE: FUTURE EXTENSION INTERLOCK OPPOSITE HAND AT OPPOSITE CORNER.



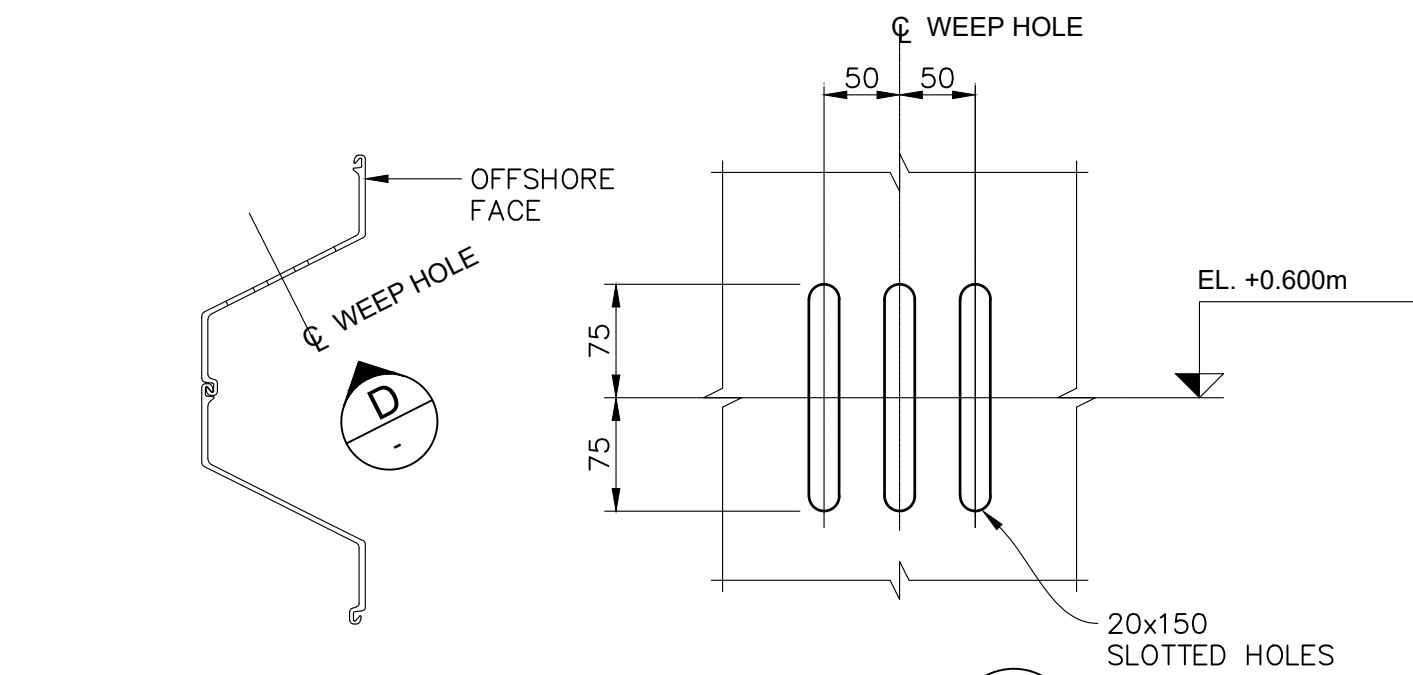
DETAIL 2
1:10
C30
NOTE: CONTRACTOR TO ENSURE FIT COMPATIBILITY OF BEARING AND RISER PLATE ON SHEET PILE PROFILE.



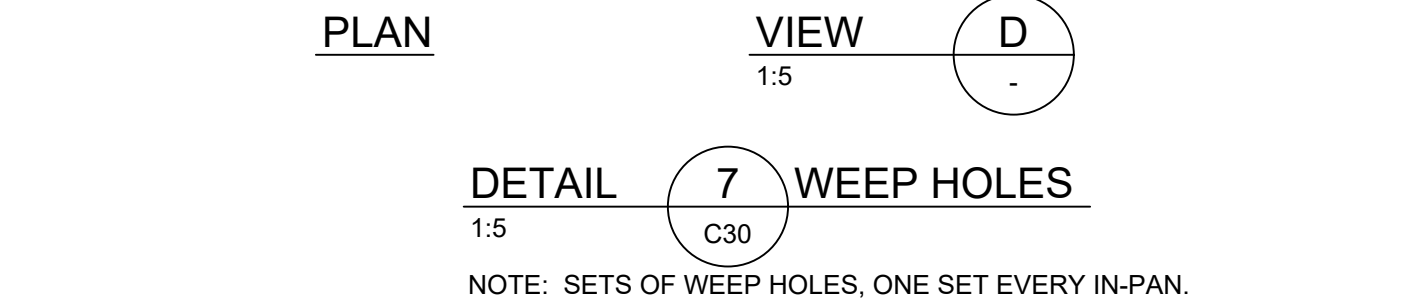
DETAIL 3
1:10
C30
NOTE: CONTRACTOR TO ENSURE FIT COMPATIBILITY OF BEARING AND RISER PLATE ON SHEET PILE PROFILE.



DETAIL 4
1:20
C30
NOTE: CONTRACTOR TO ENSURE FIT COMPATIBILITY OF BEARING AND RISER PLATE ON SHEET PILE PROFILE.



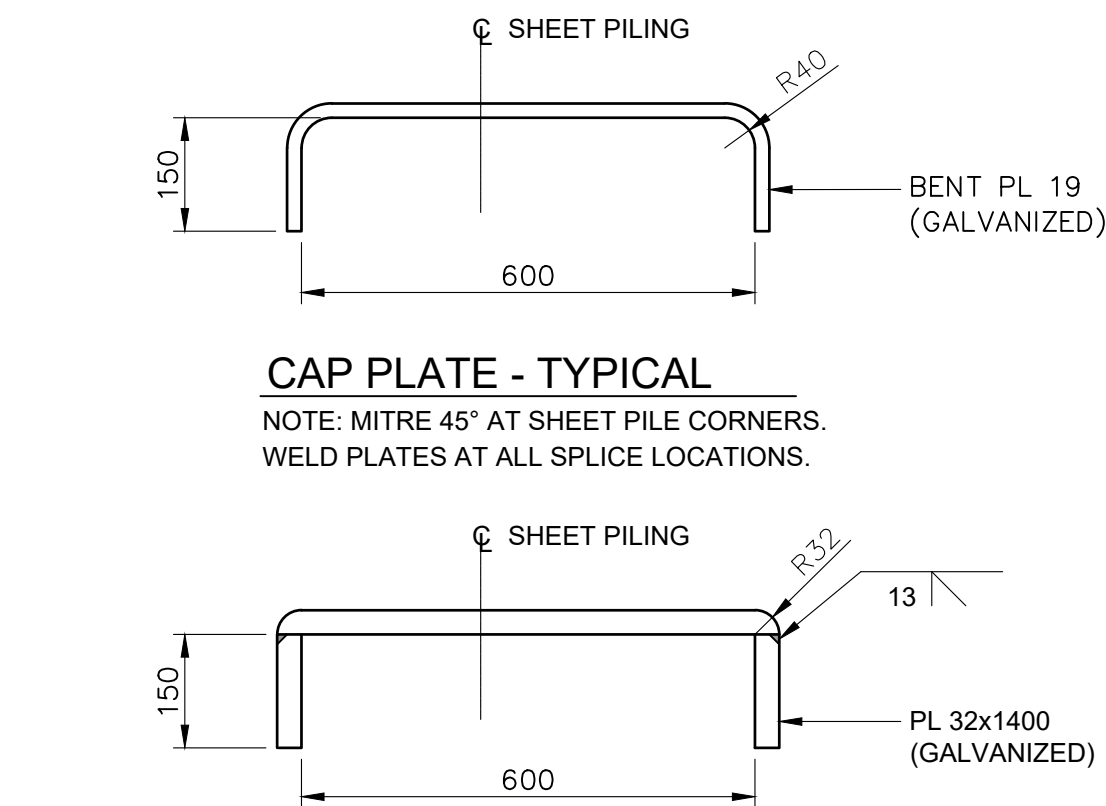
DETAIL 5
1:20
C30
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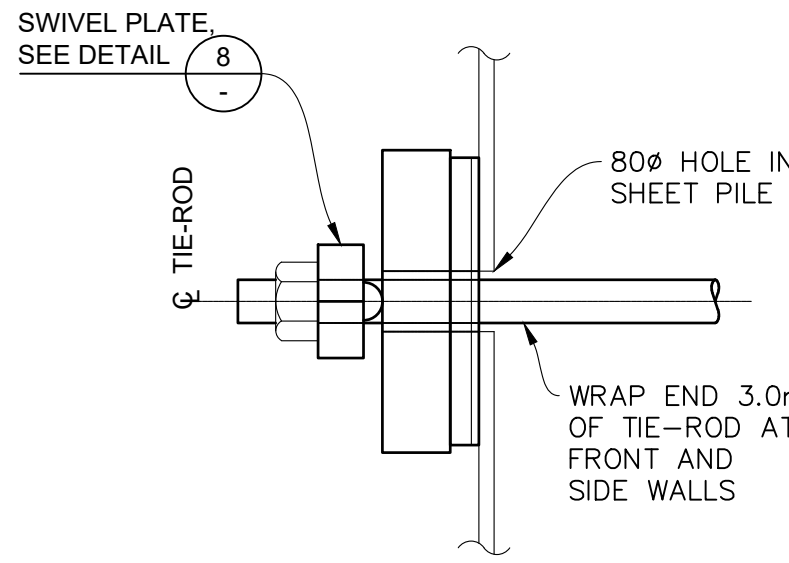
DETAIL 6
1:20
C30
NOTE: CONTRACTOR TO ENSURE FIT COMPATIBILITY OF BEARING AND RISER PLATE ON SHEET PILE PROFILE.



DETAIL 7
1:5
C30
NOTE: SETS OF WEEP HOLES, ONE SET EVERY IN-PAN.

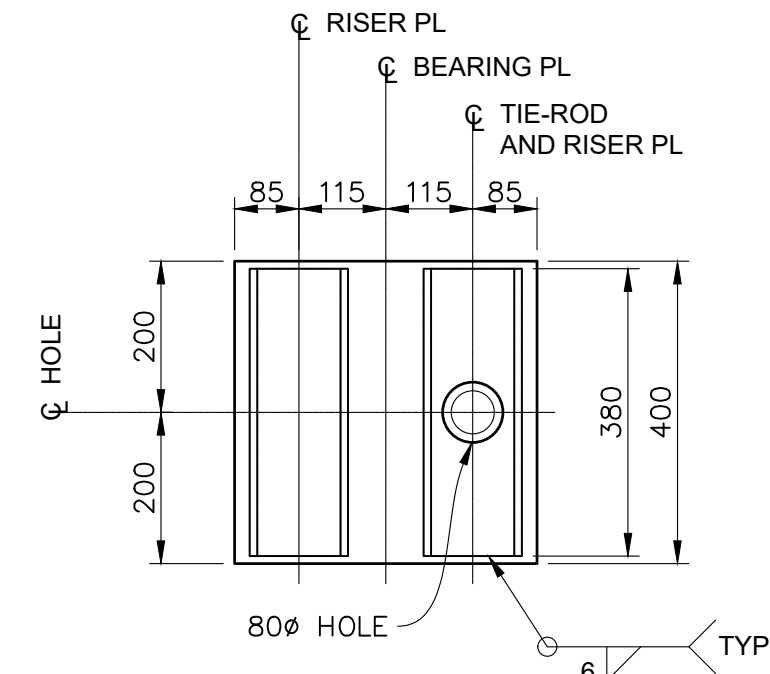


DETAIL 8
1:10
C30
NOTE: SEAL WELD ENDS OF ROUND BAR

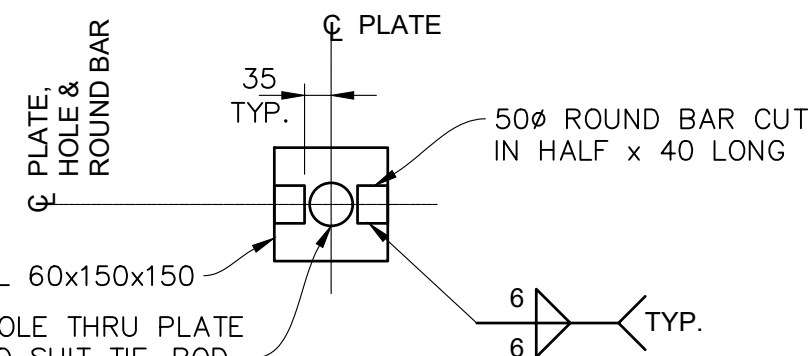


DETAIL 9
1:5
C30
NOTE: CONTRACTOR TO ENSURE FIT COMPATIBILITY OF BEARING AND RISER PLATE ON SHEET PILE PROFILE.

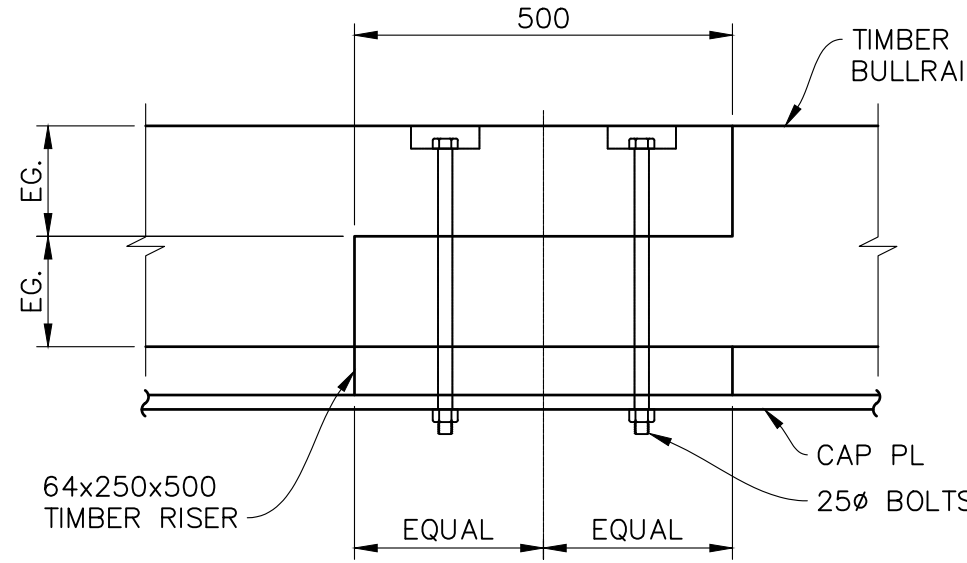
SECTION A
1:10
C30
NOTE: CONTRACTOR TO ENSURE FIT COMPATIBILITY OF BEARING AND RISER PLATE ON SHEET PILE PROFILE.



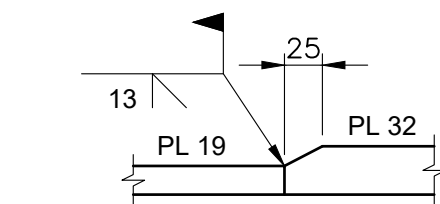
SECTION B
1:10
C30
NOTE: CONTRACTOR TO ENSURE FIT COMPATIBILITY OF BEARING AND RISER PLATE ON SHEET PILE PROFILE.



DETAIL 8
1:10
C30
NOTE: SEAL WELD ENDS OF ROUND BAR



DETAIL 9
1:5
C30
NOTE: CONTRACTOR TO ENSURE FIT COMPATIBILITY OF BEARING AND RISER PLATE ON SHEET PILE PROFILE.



DETAIL 9
1:5
C30
NOTE: CONTRACTOR TO ENSURE FIT COMPATIBILITY OF BEARING AND RISER PLATE ON SHEET PILE PROFILE.

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

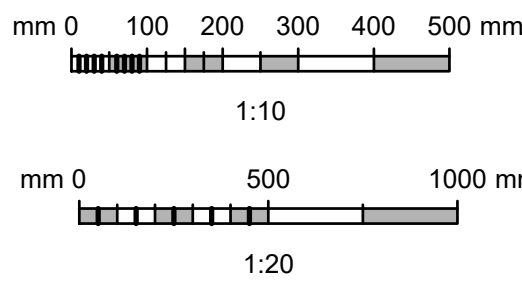
REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS
PORTS POUR PETITS BATEAUX

Advisian
317071-00037
317071-00037
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- NOTES:
- FOR DESIGN CRITERIA AND GENERAL NOTES, SEE DWG. C02.
 - ALL ELEVATIONS ARE REFERENCED TO HYDROGRAPHIC TIDE AND CHART DATUM.
 - PROVIDE INTERLOCK AT CORNER PILES, FULL LENGTH, BOTH CORNERS.



Revision	Description	Date
3	RE-ISSUED FOR TENDER (FRENCH UPDATE ONLY)	2025-05-01
2	RE-ISSUED FOR TENDER	2024-12-08
1	ISSUED FOR CLIENT REVIEW	2024/11/15
0	ISSUED FOR TENDER	2022/12/08

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

310 - 269 MAIN STREET
WINNIPEG, MANITOBA, R3C 1B3

Project title
ARCTIC BAY, NUNAVUT

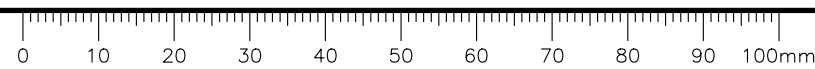
ARCTIC BAY HARBOUR DEVELOPMENT

Designed by
ANDRE DRATWA
Drawn by
JENNIFER COPPENDALE
Approved by
CHRIS MEISL
PWSSC Project Manager
KENTON THIESSEN

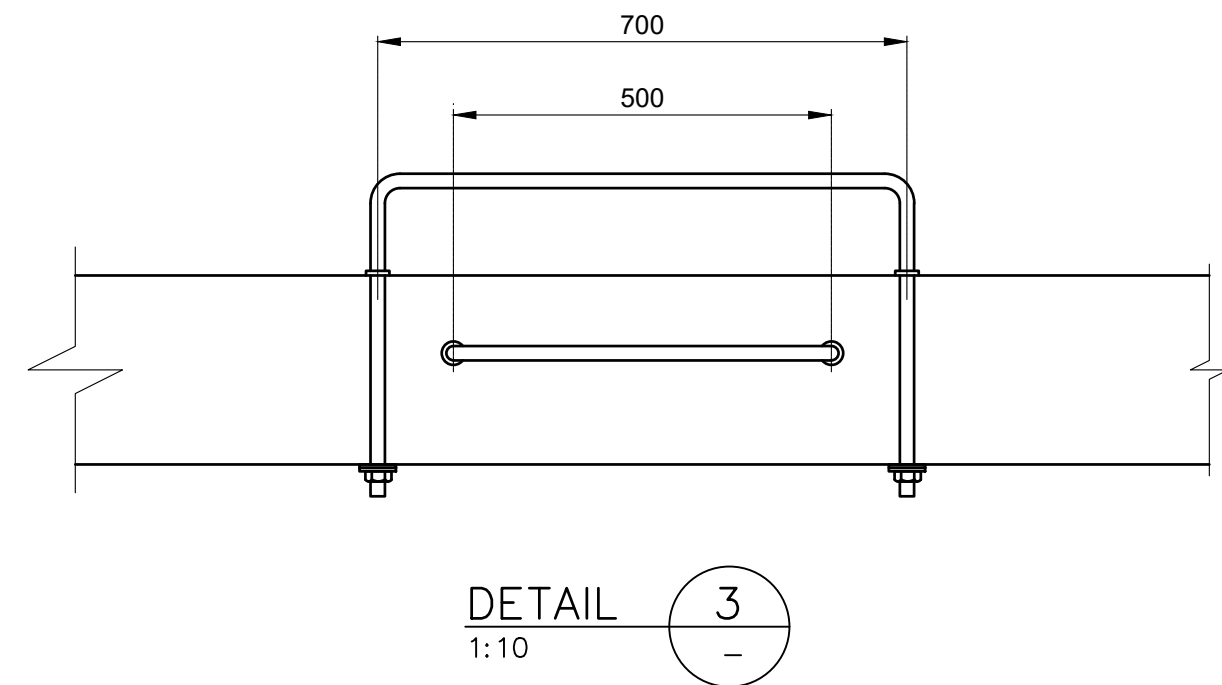
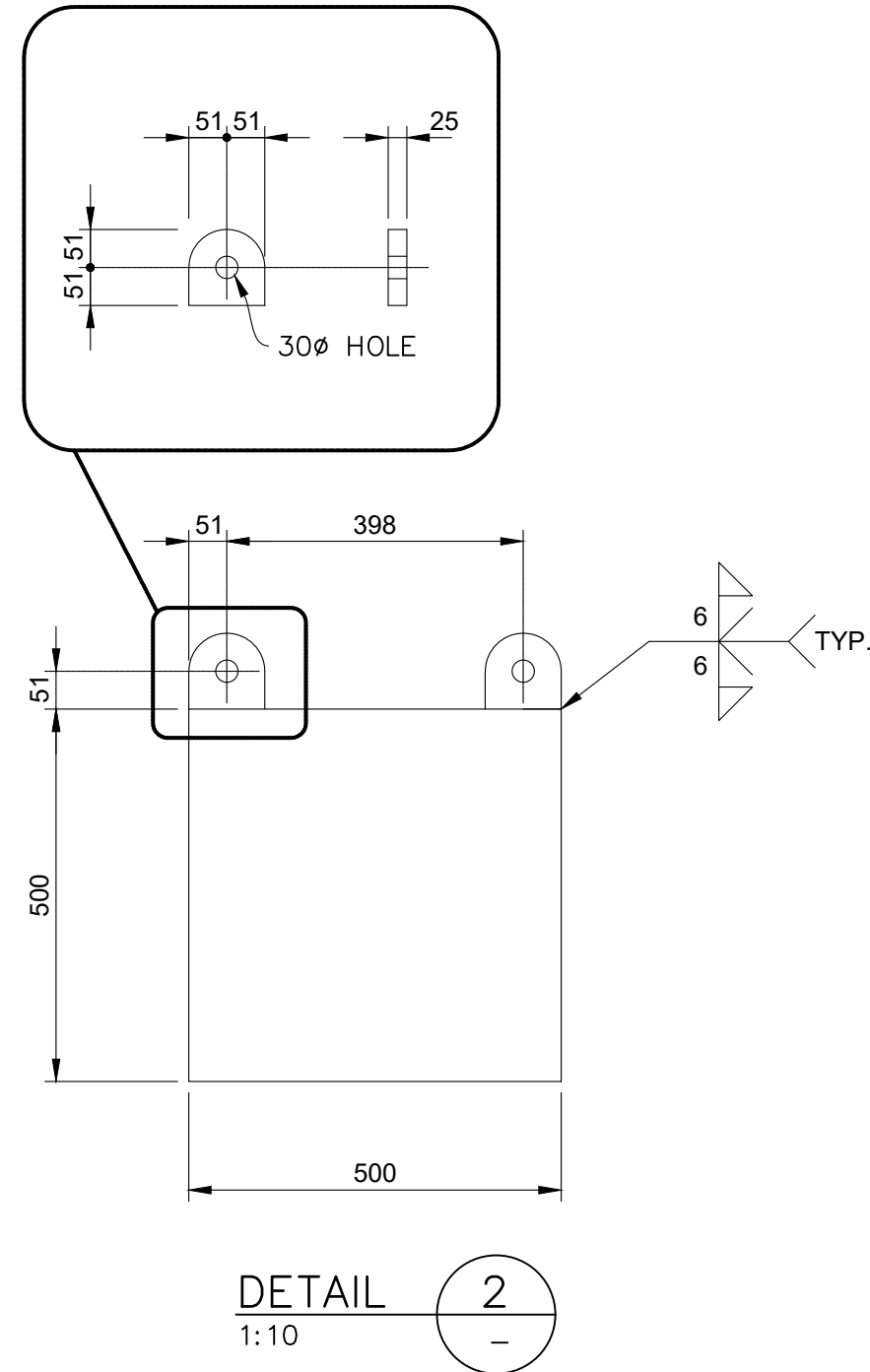
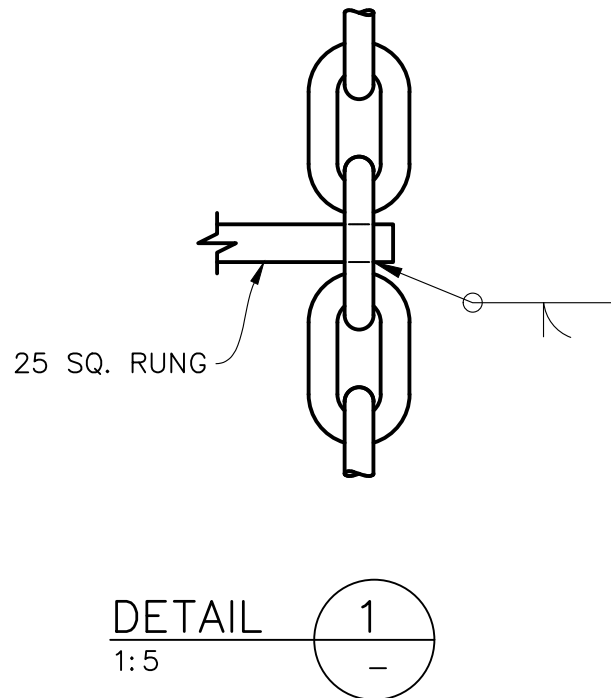
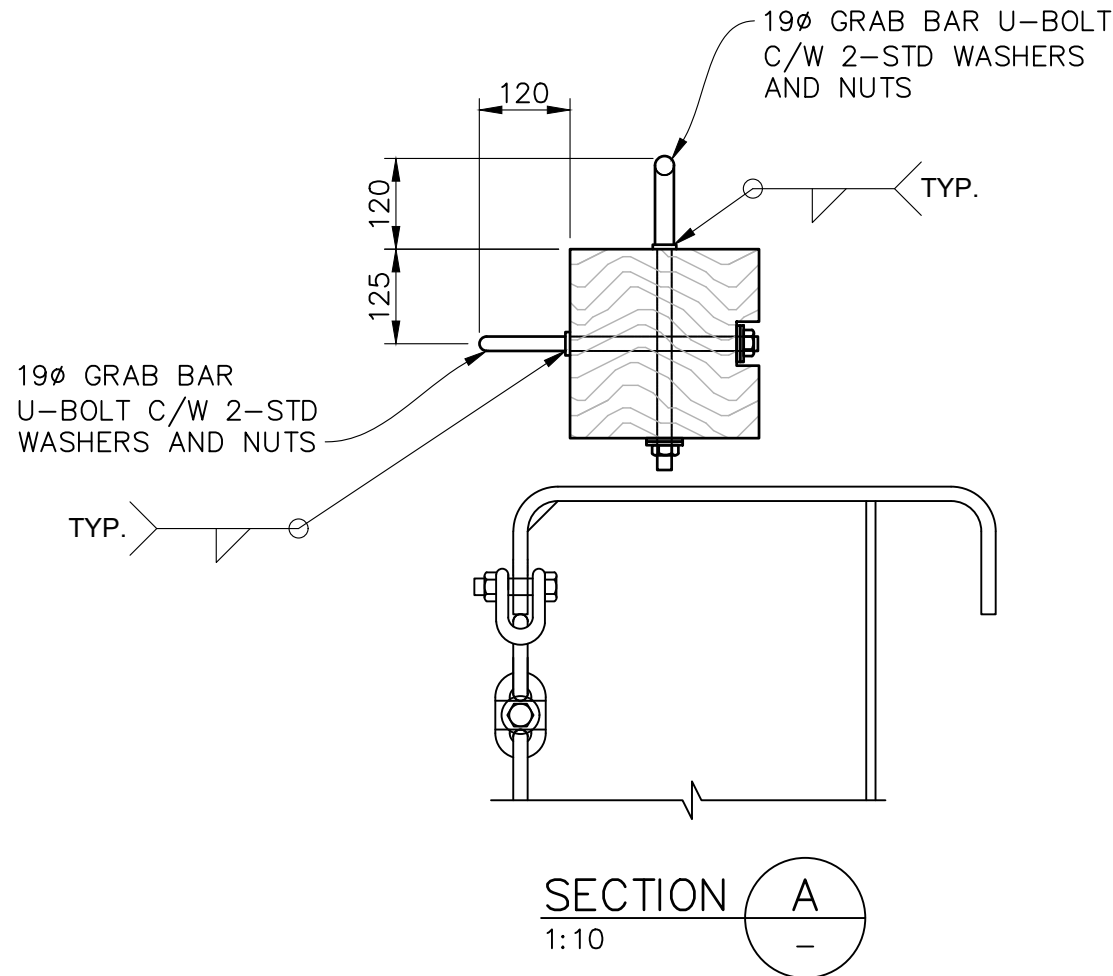
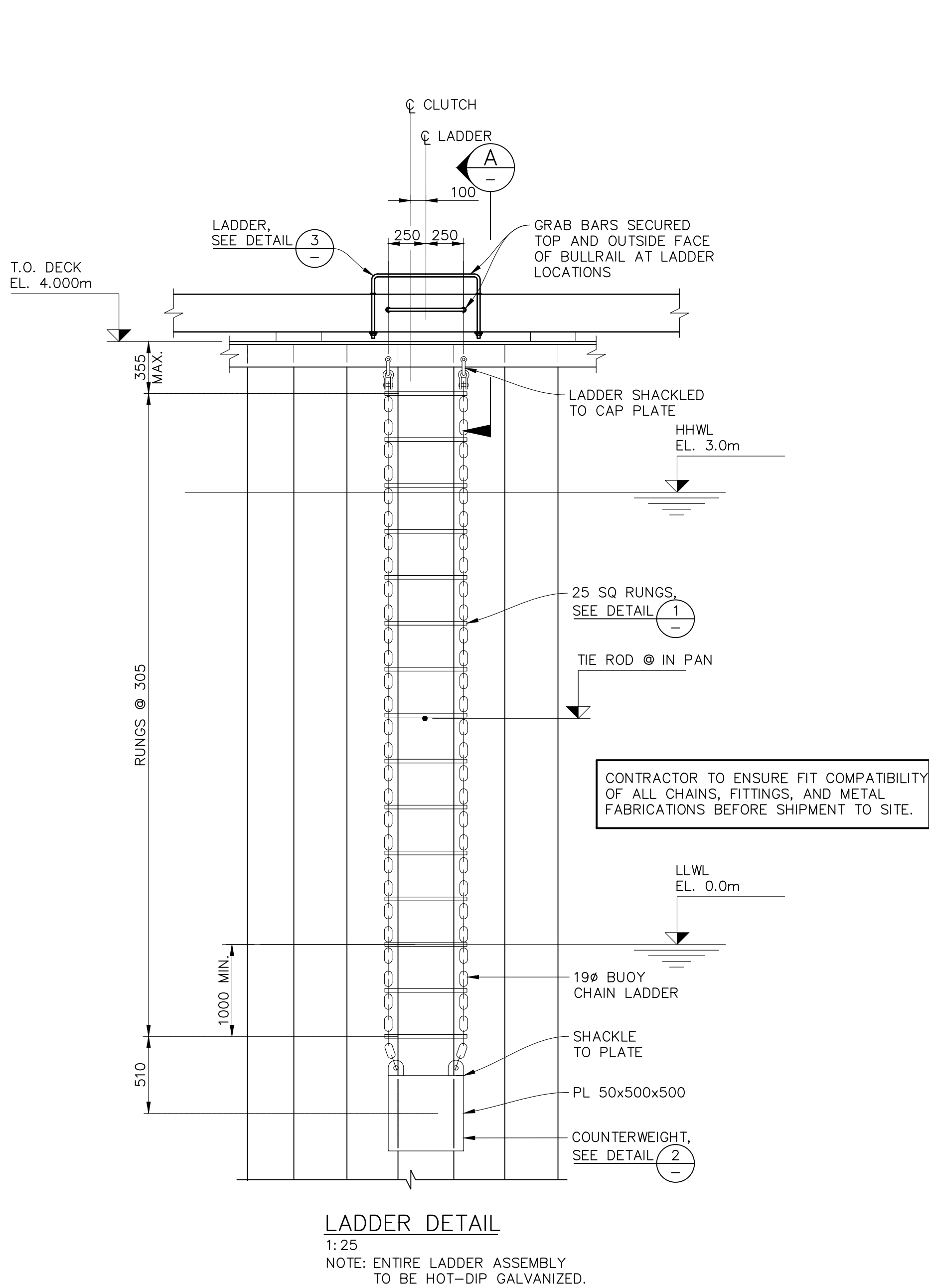
Conçu par
Dessiné par
Approuvé par
Administrateur de Projets TPSSC

Drawing title
WHARF DETAILS SHEET 1

Project no./No. du projet
R.110729.001
Drawing no./No. du dessin
C31
Revision no.
3



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NOTES:

- FOR DESIGN CRITERIA AND GENERAL NOTES, SEE DWG. C02.
- ALL ELEVATIONS ARE REFERENCED TO HYDROGRAPHIC TIDE AND CHART DATUM.

mm 0 50 100 250 mm

1:5

mm 0 100 200 300 400 500 mm

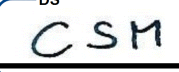
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mm 0 500 1000 mm

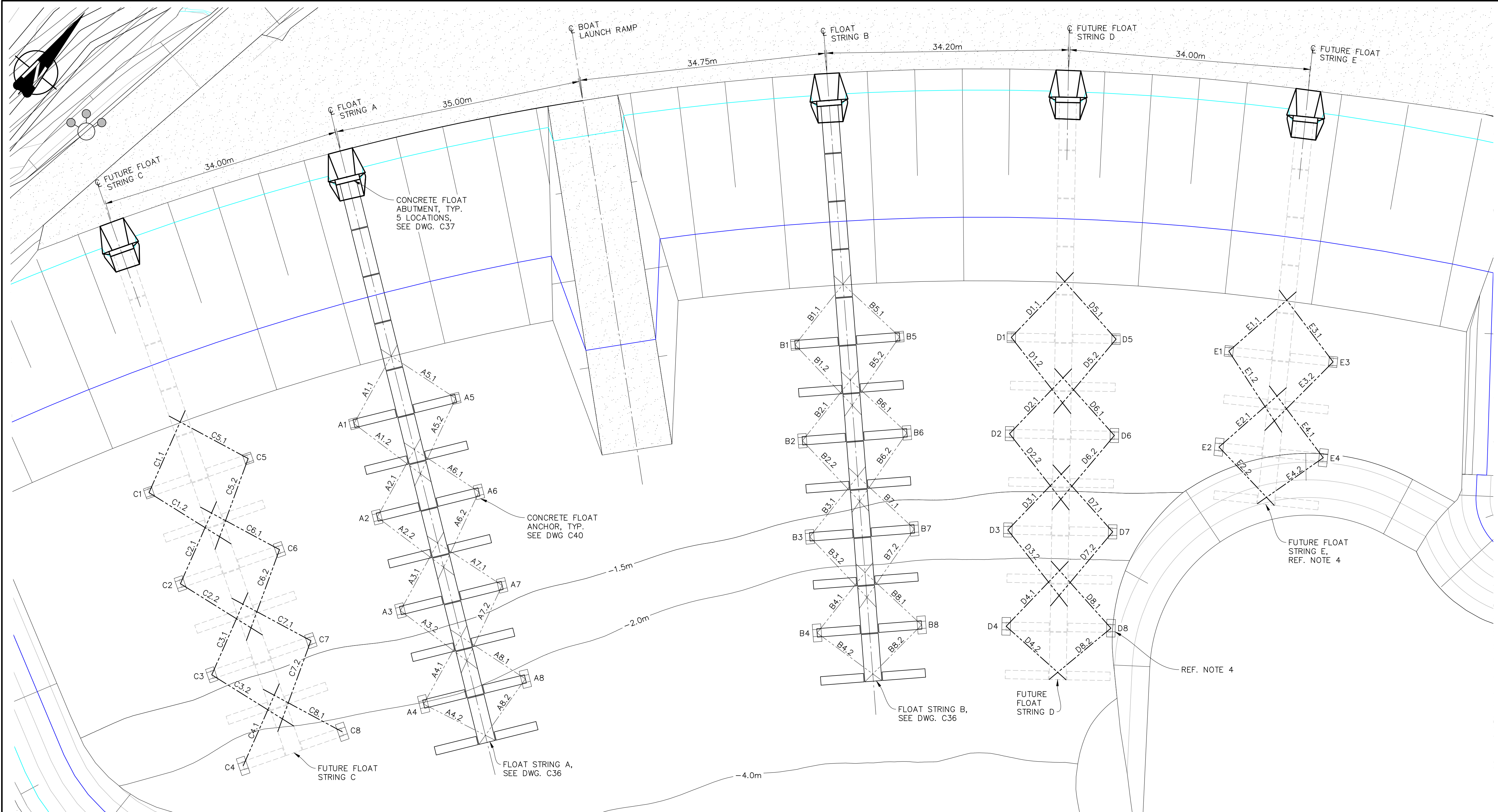
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mm 0 500 1000 1500 mm

1:25

2	RE-ISSUED FOR TENDER	2024/12/06
1	ISSUED FOR CLIENT REVIEW	2024/11/15
0	ISSUED FOR TENDER	2022/02/22
Revision	Description	Date
Client		client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA 310 - 269 MAIN STREET WINNIPEG, MANITOBA, R3C 1B3		
Project title	Project	
ARCTIC BAY, NUNAVUT		
ARCTIC BAY HARBOUR DEVELOPMENT		
Designed by	DESIGNED KATIE MORRISON 	Conçu par
Drawn by	DRAWN JENNIFER COPPENDALE 	Dessiné par
Approved by	APPROVED CHRIS MEISL 	Approuvé par
PWSSC Project Manager / Administrateur de Projets TPSSC KENTON THIESSEN		
Drawing title	Titre du dessin	
WHARF DETAILS SHEET 2		
Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.110729.001	C32	2

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Last Saved: Dec. 06/24 11:53am Plotted: Dec. 6/24



PLAN
1:300

FLOAT ANCHOR/CHAIN SCHEDULE						
FLOAT ANCHOR	NORTHING	EASTING	ANCHOR TYPE, (DWG. C40)	MUDLINE EL. (m) AT ANCHOR	CHAINS	ESTIMATED CHAIN LENGTH (m)
A1	8105010.870	559860.907	1	-1.50	A1.1 A1.2	13.5
A2	8105003.167	559872.163	2	-1.50	A2.1 A2.2	13.5
A3	8104995.463	559883.420	2	-1.50	A3.1 A3.2	13.5
A4	8104987.760	559894.676	3	-2.01	A4.1 A4.2	12.3
A5	8105030.151	559870.298	1	-1.50	A5.1 A5.2	13.5
A6	8105015.413	559880.544	2	-1.50	A6.1 A6.2	13.5
A7	8105007.710	559891.801	2	-1.50	A7.1 A7.2	13.5
A8	8105000.007	559903.057	3	-2.11	A8.1 A8.2	12.3
B1	8105060.729	559900.126	1	-1.50	B1.1 B1.2	13.5
B2	8105051.260	559909.944	2	-1.50	B2.1 B2.2	13.5
B3	8105041.791	559919.762	2	-1.68	B3.1 B3.2	13.6
B4	8105032.322	559929.579	3	-2.58	B4.1 B4.2	12.5
B5	8105071.411	559910.428	1	-1.50	B5.1 B5.2	13.5
B6	8105061.942	559920.246	2	-1.5	B6.1 B6.2	13.5
B7	8105052.473	559930.064	2	-1.73	B7.1 B7.2	13.6
B8	8105043.004	559939.881	3	-2.66	B8.1 B8.2	12.6

FLOAT ANCHOR/CHAIN SCHEDULE						
FLOAT ANCHOR	NORTHING	EASTING	ANCHOR TYPE, (DWG. C40)	MUDLINE EL. (m) AT ANCHOR	CHAINS	ESTIMATED CHAIN LENGTH (m)
C1	8104984.284	559845.725	1	-1.50	C1.1 C1.2	13.5
C2	8104977.601	559857.616	2	-1.50	C2.1 C2.2	13.5
C3	8104970.919	559869.508	2	-1.50	C3.1 C3.2	13.5
C4	8104964.237	559881.399	3	-2.23	C4.1	12.4
C5	8104997.221	559852.995	1	-1.50	C5.1 C5.2	13.5
C6	8104990.539	559864.886	2	-1.50	C6.1 C6.2	13.5
C7	8104983.857	559876.778	2	-1.50	C7.1 C7.2	13.5
C8	8104977.174	559888.669	3	-2.10	C8.1	12.3
D1	8105081.860	559922.293	1	-1.50	D1.1 D1.2	13.5
D2	8105071.510	559931.178	2	-1.50	D2.1 D2.2	13.5
D3	8105061.161	559940.063	2	-1.79	D3.1 D3.2	13.6
D4	8105050.812	8105050.812	3	-2.65	D4.1 D4.2	12.6
D5	8105091.526	559933.553	1	-1.50	D5.1 D5.2	13.5
D6	8105081.177	559942.438	2	-1.50	D6.1 D6.2	13.5
D7	8105070.828	559951.323	2	-1.81	D7.1 D7.2	13.6
D8	8105060.478	559960.208	3	-2.61	D8.1 D8.2	12.5
E1	8105100.866	559946.606	1	-1.50	E1.1 E1.2	13.5
E2	8105089.803	559954.584	3	-1.50	E2.1 E2.2	12.0
E3	8105109.547	559958.642	1	-1.50	E3.1 E3.2	13.5
E4	8105098.484	559966.621	3	-1.72	E4.1 E4.2	12.0

FLOATS AND ANCHOR NOTES:

- SUPPLY AND INSTALL ALL FLOAT ANCHORS AND ABUTMENTS FOR IN-SCOPE AND FUTURE FLOATS.
- INSTALL FLOAT ANCHORS FLUSH WITH DESIGN DREDGE LEVEL. BACKFILL TO BURY PERIMETER.
- TOLERANCE OF FLOAT ANCHORS SHALL BE $\pm 0.3\text{m}$ FOR PLAN POSITION, $+0.0\text{m}$ AND -0.3m FOR ELEVATION.
- ALL CHAIN TO BE 16mm DIAMETER GALVANIZED MOORING CHAIN WITH MINIMUM BREAKING STRENGTH = 70 kN.
- SUPPLY ALL INSTALLED CHAINS WITH LENGTH, 2m LONGER THAN TABLE LENGTH.
- SUPPLY CONNECTING SHACKLES TO COMPLETE SYSTEM SETUP, PLUS RESERVE OF 100% SPARE SHACKLES TO BE SINGLE-NUT ANCHOR SHACKLES, C/W SS COTTER PIN. CONTRACTOR TO INSURE FIT COMPATIBILITY OF ALL CHAINS FITTINGS AND METAL FABRICATIONS BEFORE SHIPMENT TO SITE.
- SUPPLY SPARE 200m CHAIN IN ONE LENGTH, COMPLETE WITH 20 SPARE SHACKLES. STORE IN CRATE ON SITE IN FINAL LOCATION AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE. STORE RESERVE SHACKLES AND ANY CUT-OFF CHAIN WITH SPARES.
- INSTALLING AND CONNECTING FLOAT MOORING CHAINS:
 - PROVIDE AS-BUILT LOCATION AND ELEVATION OF FLOAT ANCHORS TO THE DEPARTMENTAL REPRESENTATIVE
 - CONFIRM CHAIN CONNECTING LENGTHS REQUIRED FOR INSTALLATION
 - MARK CHAINS AT 0.5m INTERVALS FROM 9m TO END OF CHAIN
 - INSTALL SHACKLE AT "ESTIMATED LENGTH"
 - ASSEMBLE FLOATS FROM ABUTMENT TO FIRST MOORING CONNECTION AND LOOSELY CONNECT CHAINS
 - AT TIDE OF 0.5m ABOVE CHART DATUM, TENSION (TO BE CONFIRMED BY DEPARTMENTAL REPRESENTATIVE). RECORD CHAIN CONNECTING POSITION
 - ASSEMBLE REMAINING FLOATS AND MOORING CHAINS AND TENSION AS ABOVE
 - RECORD FLOAT FREEBOARD AT HIGH AND LOW TIDE OVER TWO SUCCESSIVE TIDE CYCLES OF MEAN OR GREATER RANGE TIDE
 - ADJUST MOORING CHAINS IF DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE
 - MOORING CHAINS TO BE TIGHT AT EXTREME WATER LEVEL

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

Fisheries and Oceans Canada
Pêches et Océans Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

SMALL CRAFT HARBOURS
PORTS POUR PETITS BATEAUX

Advisian
إكسپلایر سروسز لیمیٹد
Ikpiaryuk Services Ltd.

317071-00037
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LEGEND:

— LLWL (0.0m)
— HHWL (3.0m)

NOTES:

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- ALL ELEVATIONS ARE REFERENCED TO HYDROGRAPHIC TIDE AND CHART DATUM.
- FOR DETAILS OF FLOATS, REFER TO DFO REFERENCE DRAWINGS.
- POSITION OF FLOAT ANCHORS D8, E1 TO E4, AND ABUTMENT FOR FLOAT STRING E TO BE CONFIRMED BY DEPARTMENTAL REPRESENTATIVE ONCE AS-BUILT DREDGE SLOPES HAVE BEEN CONFIRMED.

0 5 10 15m
1:300

2	RE-ISSUED FOR TENDER	2024/12/06
1	ISSUED FOR CLIENT REVIEW	2024/11/25
0	ISSUED FOR TENDER	2022/02/22

Revision Description Date

Client client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

310 - 269 MAIN STREET
WINNIPEG, MANITOBA, R3C 1B3

Project title
ARCTIC BAY, NUNAVUT

ARCTIC BAY HARBOUR DEVELOPMENT

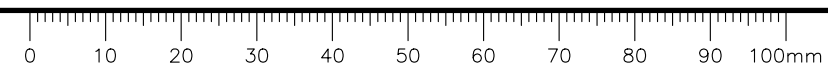
Designed by **KATIE MORRISON** Conçu par **KM**
Drawn by **JENNIFER COPPENDALE** Dessiné par **JC**
Approved by **CHRIS MEISL** Approuvé par **CSM**
PWSCC Project Manager / Administrateur de Projets TPSCC
KENTON THIESSEN

Drawing title
SMALL CRAFT FLOATS PLAN AND ANCHOR LAYOUT

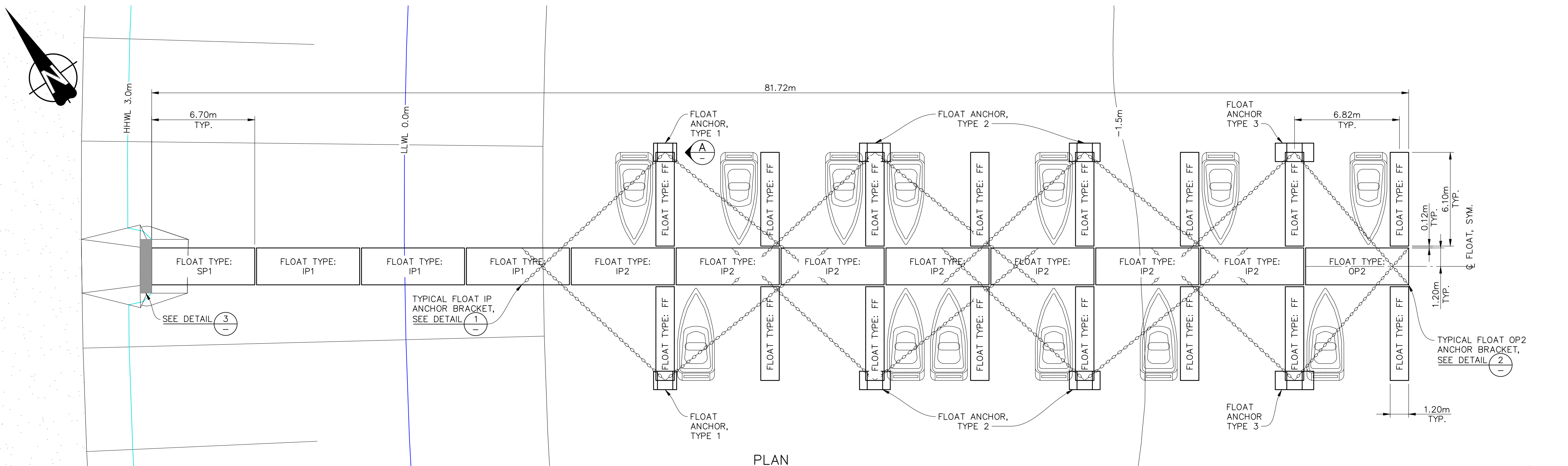
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R.110729.001

Drawing no./No. du dessin
C35

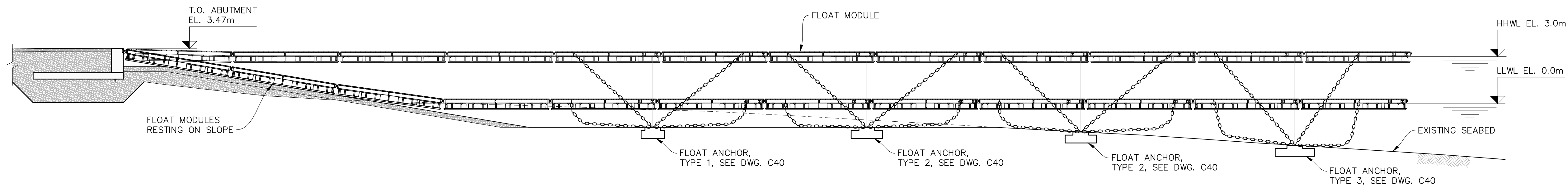
Revision no.
2



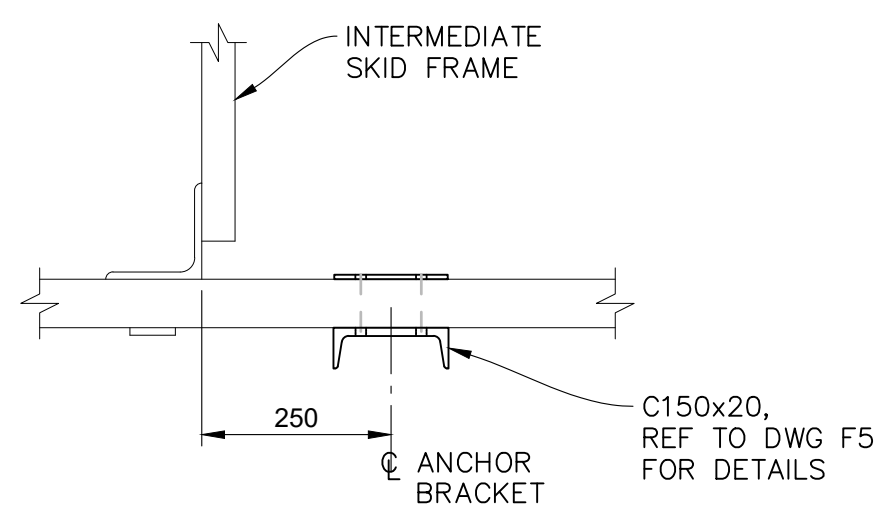
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Last Saved: Dec. 06/24 11:56am Plotted: Dec. 6/24



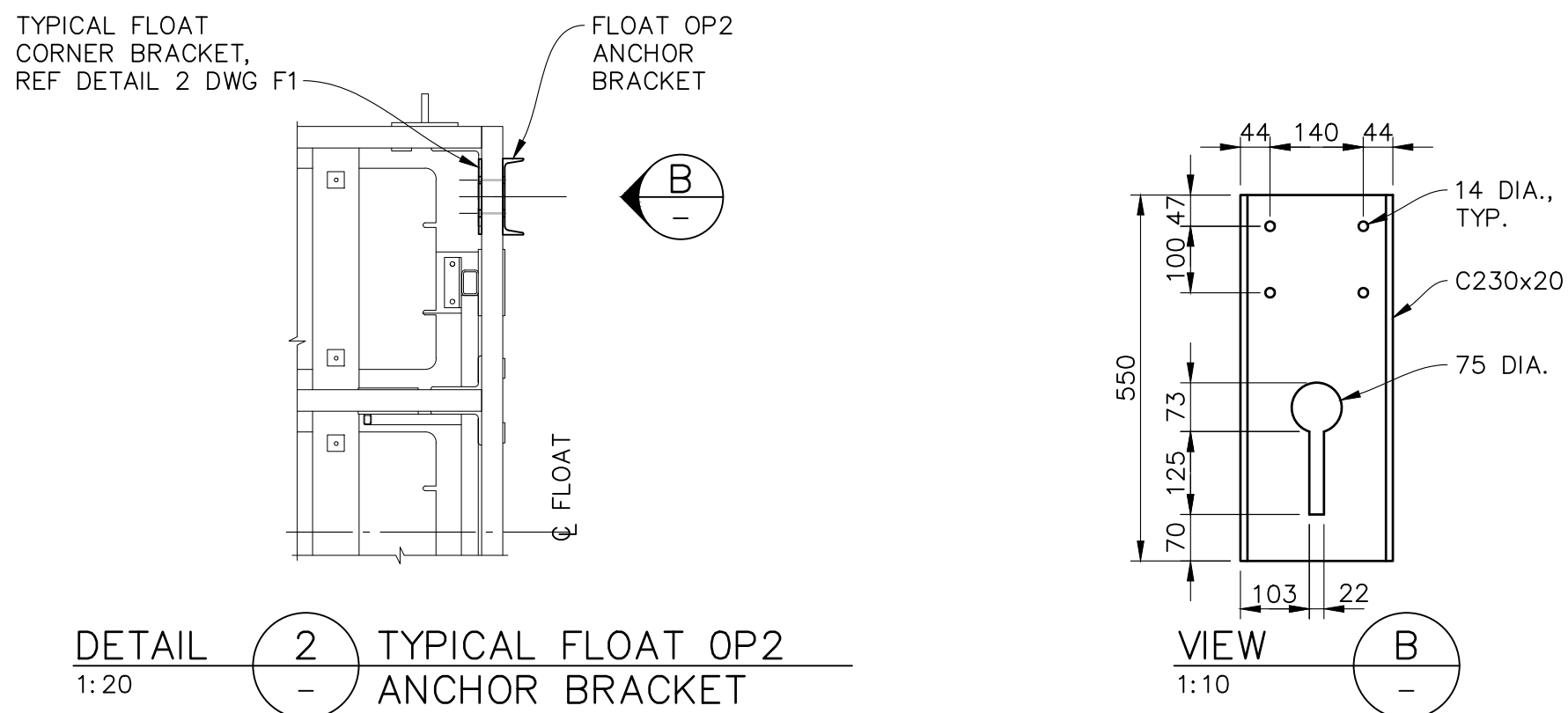
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1:150



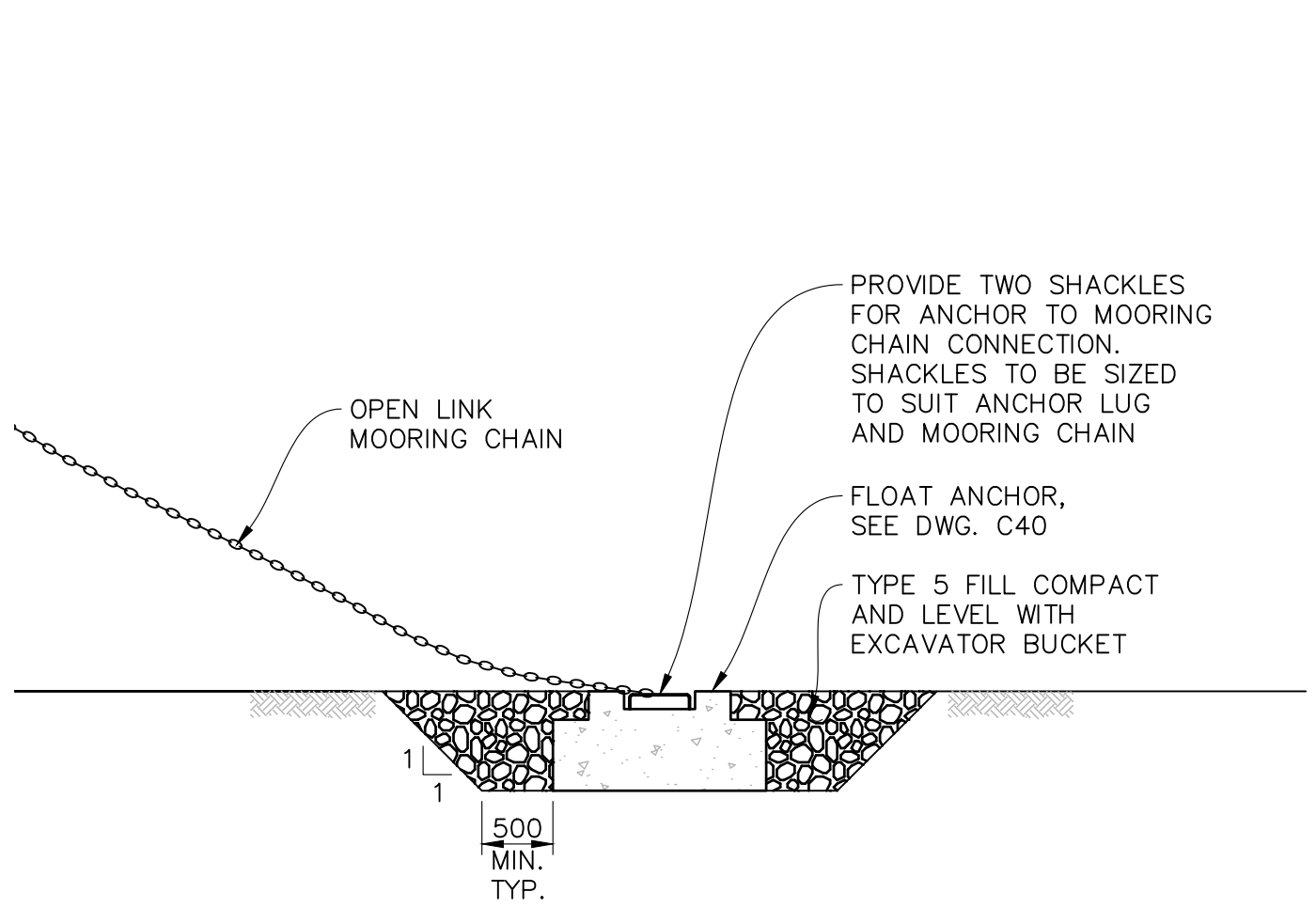
ELEVATION
1:150



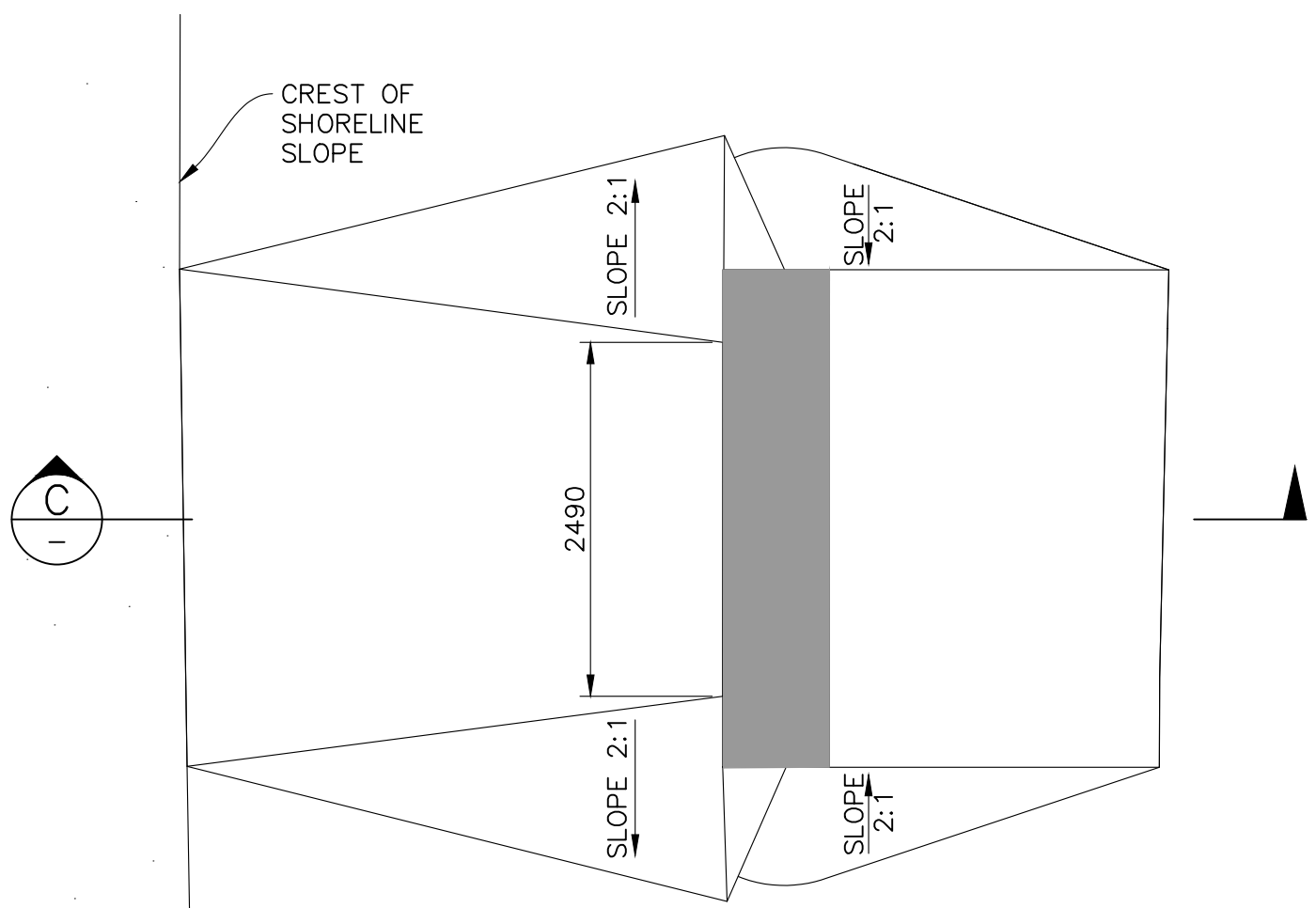
DETAIL 1
1:10
TYPICAL FLOAT IP ANCHOR
BRACKET LOCATION



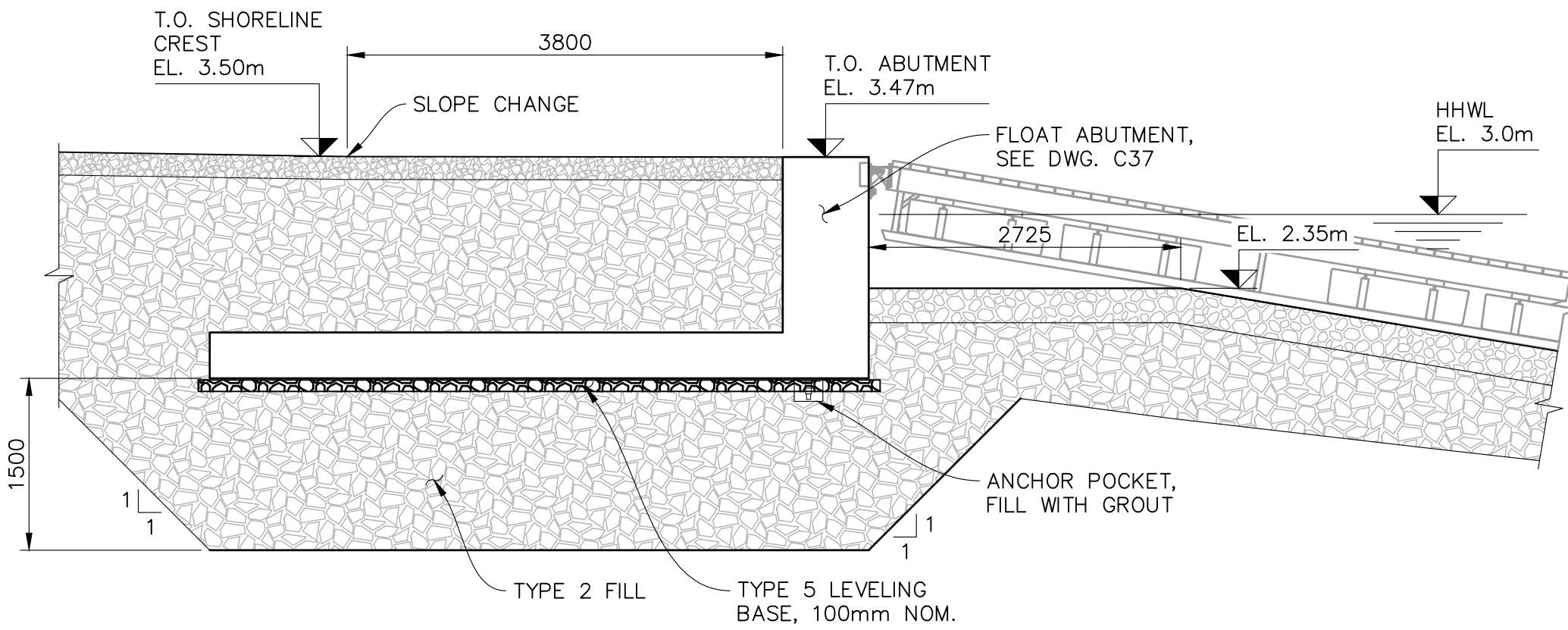
DETAIL 2
1:20
TYPICAL FLOAT OP2
ANCHOR BRACKET
LOCATION AND DETAILS



VIEW A
1:50
NOTE: FLOAT ANCHOR TYPE 1 SHOWN.



DETAIL 3
1:50
ABUTMENT PLAN
NOTE: FLOATS NOT SHOWN FOR CLARITY.



SECTION C
1:50
NOTE: FLOAT COVER PLATE NOT SHOWN FOR CLARITY.

Public Works and Government Services Canada
REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

Fisheries and Oceans Canada
Pêches et Océans Canada
SMALL CRAFT HARBOURS
PORTS POUR PETITS BATEAUX

Advisian **إكسپریٹ سروسز**
Ikpiaryuk Services Ltd.
317071-00037
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NOTES:

- FOR DESIGN CRITERIA AND GENERAL NOTES, SEE DWG. C02.
- ALL ELEVATIONS ARE REFERENCED TO HYDROGRAPHIC TIDE AND CHART DATUM.
- FOR DETAILS OF FLOATS, REFER TO DFO REFERENCE DRAWINGS.
- SUPPLY SP1 FLOAT WITH HINGE, SEE DETAIL 3, DWG. C37.
- SHACKLE TO BE PROVIDED AT MOORING CHAIN TO ANCHOR BRACKET CONNECTION.

mm0 100 200 300 400 500mm
1:10

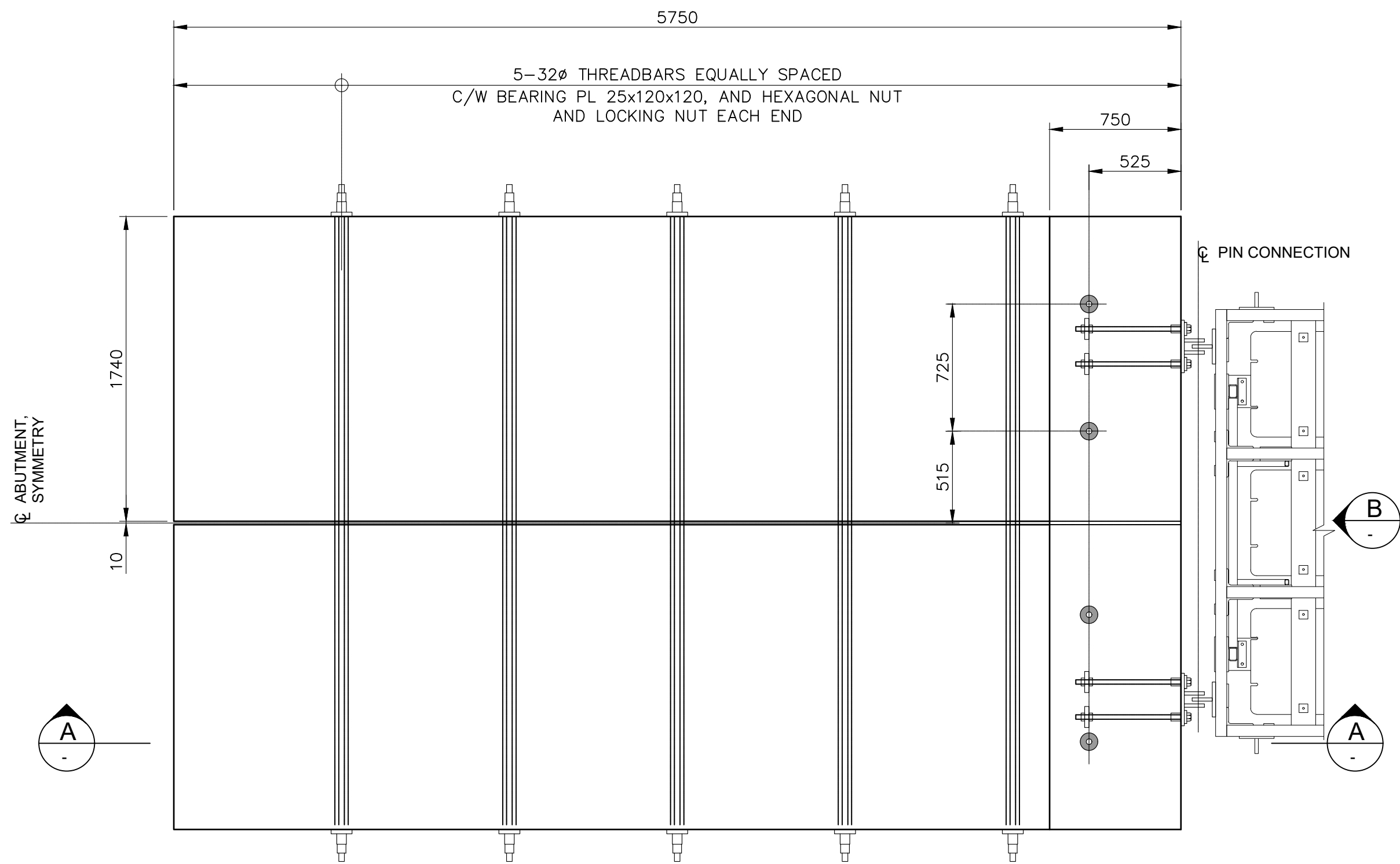
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mm0 500 1000 2500mm
1:50

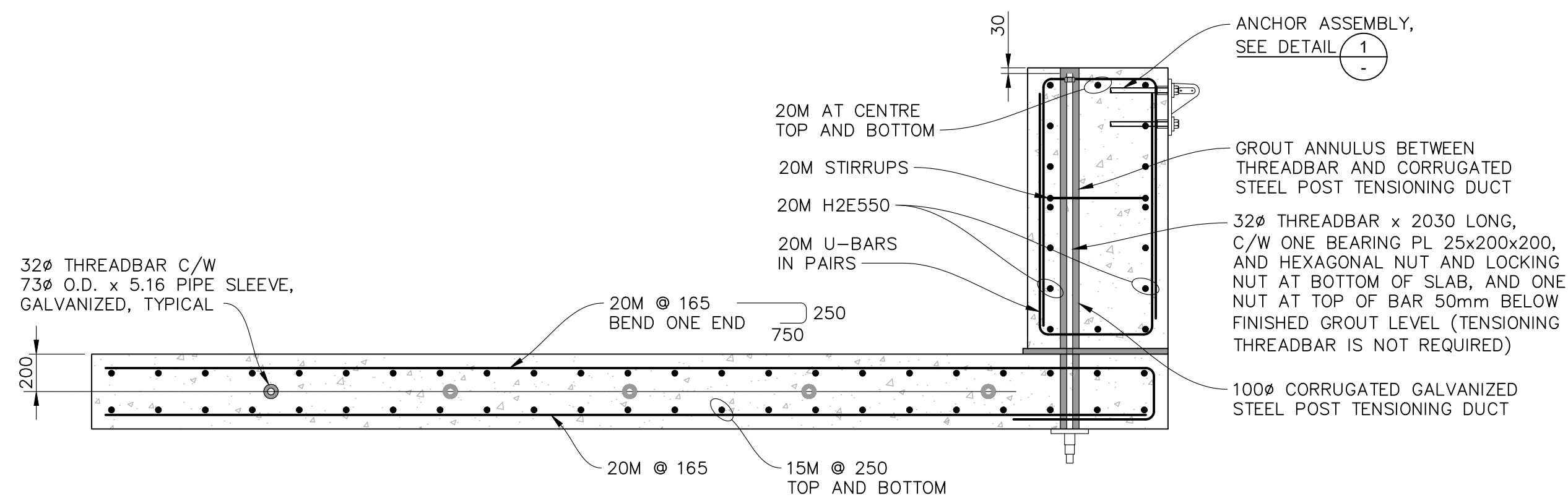
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2	RE-ISSUED FOR TENDER (GENERAL REVISION)	2024/12/06
1	ISSUED FOR CLIENT REVIEW	2024/11/25
0	ISSUED FOR TENDER	2022/02/22
Revision	Description	Date
Client		client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA 310 - 269 MAIN STREET WINNIPEG, MANITOBA, R3C 1B3		
Project title	Projet	
ARCTIC BAY, NUNAVUT		
ARCTIC BAY HARBOUR DEVELOPMENT		
Designed by	DESIGNED KATIE MORRISON Signature	Conçu par
Drawn by	DRAWN JENNIFER COPPENDALE Signature	Dessiné par
Approved by	APPROVED CHRIS MEISL Signature	Approuvé par
PWGSC Project Manager	ADMINISTRATEUR DE PROJETS KENTON THIESSEN	Administrateur de Projets IPWGC
Drawing title	Titre du dessin	
SMALL CRAFT FLOATS SECTIONS AND DETAILS		
Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.110729.001	C36	2

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Last Saved: Dec. 06/24 12:14pm Plotted: Dec. 6/24

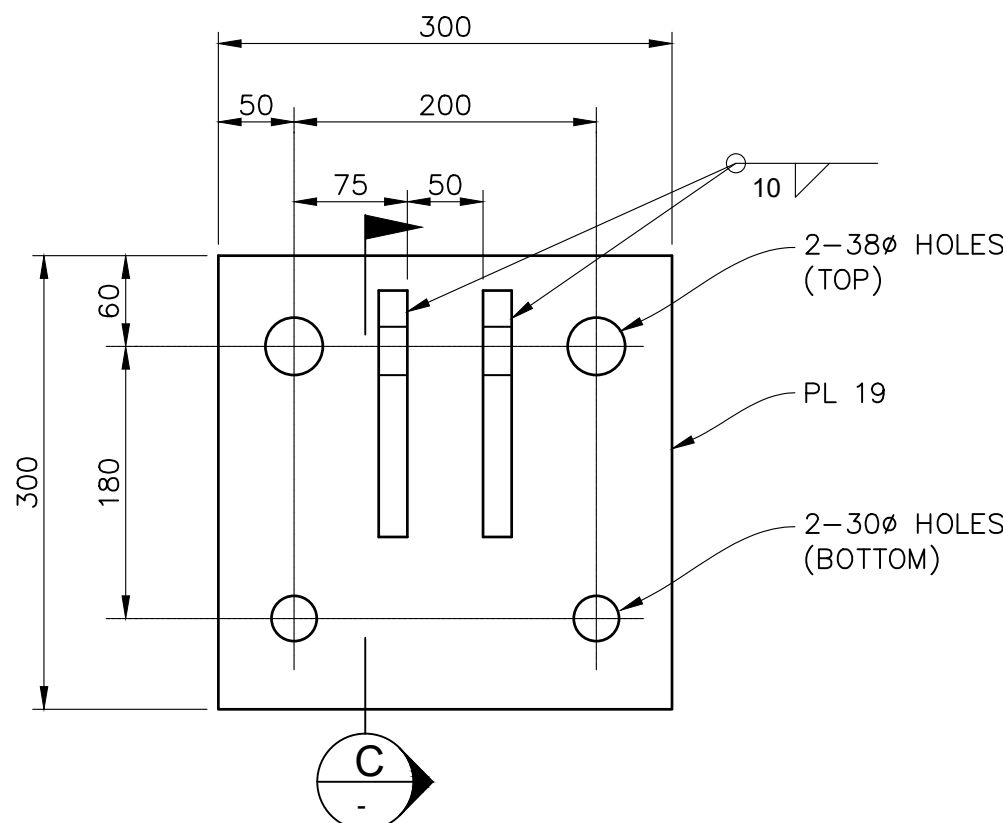


PLAN - FLOAT ABUTMENT
1:25



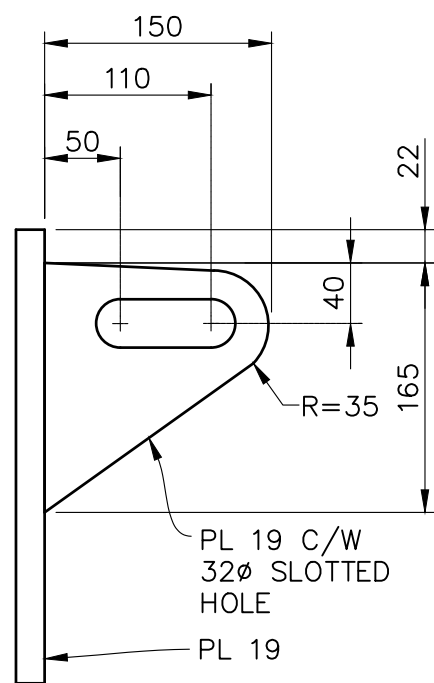
SECTION A
1:25

NOTE: EXCAVATE HOLE 250 DIA. x 200 DEEP, FOR BOTTOM ANCHOR FILL
WITH GROUT PRIOR TO FOOTING PLACEMENT.

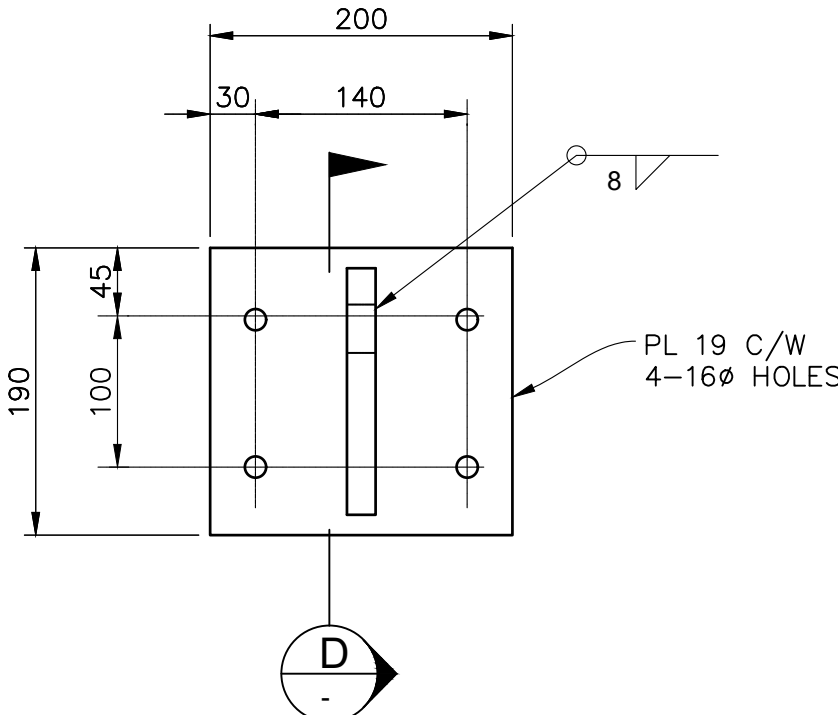


DETAIL 2 ABUTMENT BRACKET
1:5

NOTE: FOR FLOAT TO ABUTMENT CONNECTION,
PROVIDE 300 x 140 LONG GALVANIZED,
MACHINED BOLT, H.D. COTTER PIN, AND
2-10 THICK UHMW BUSHINGS, TYPICAL AT
EACH BRACKET.

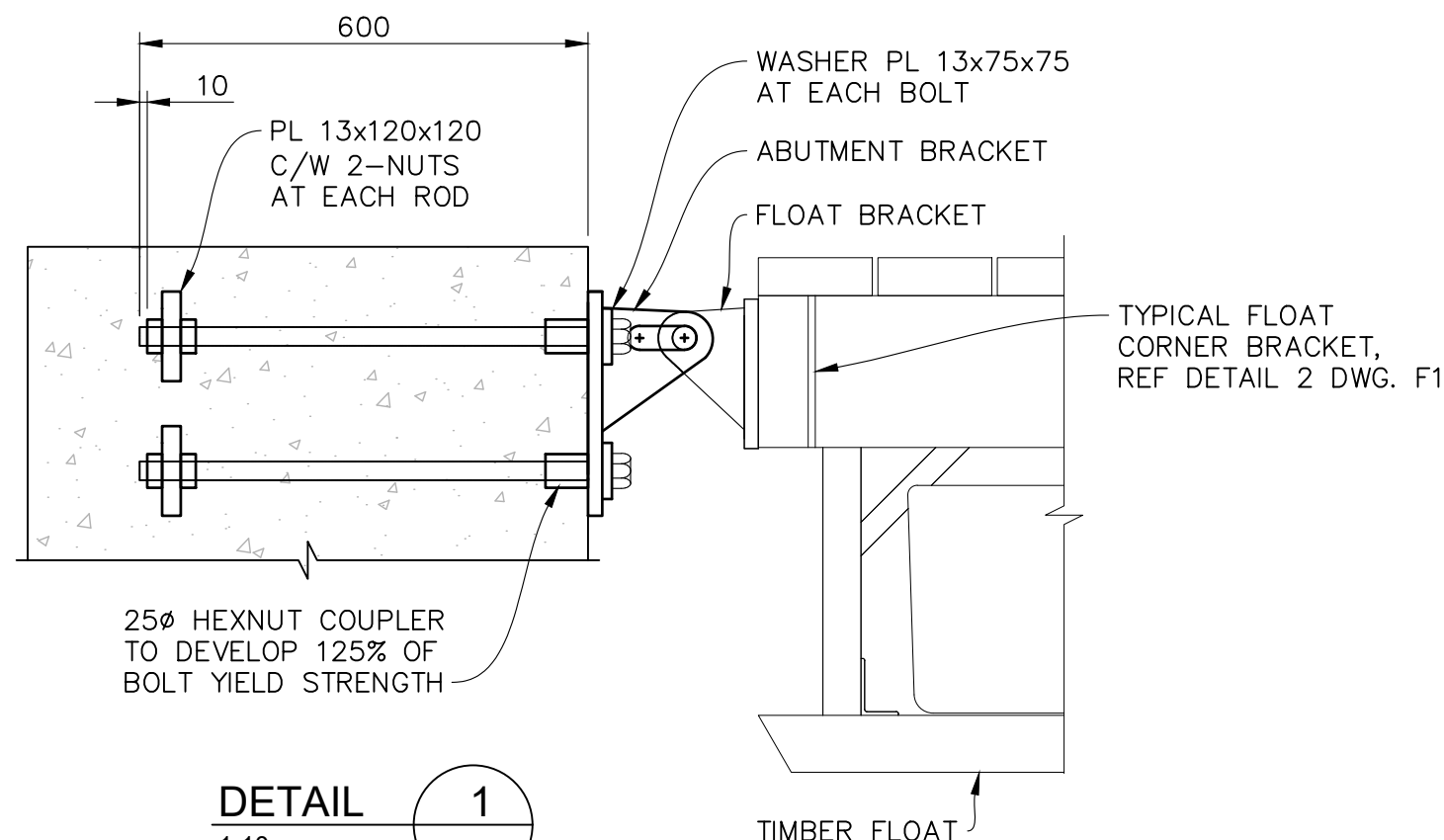
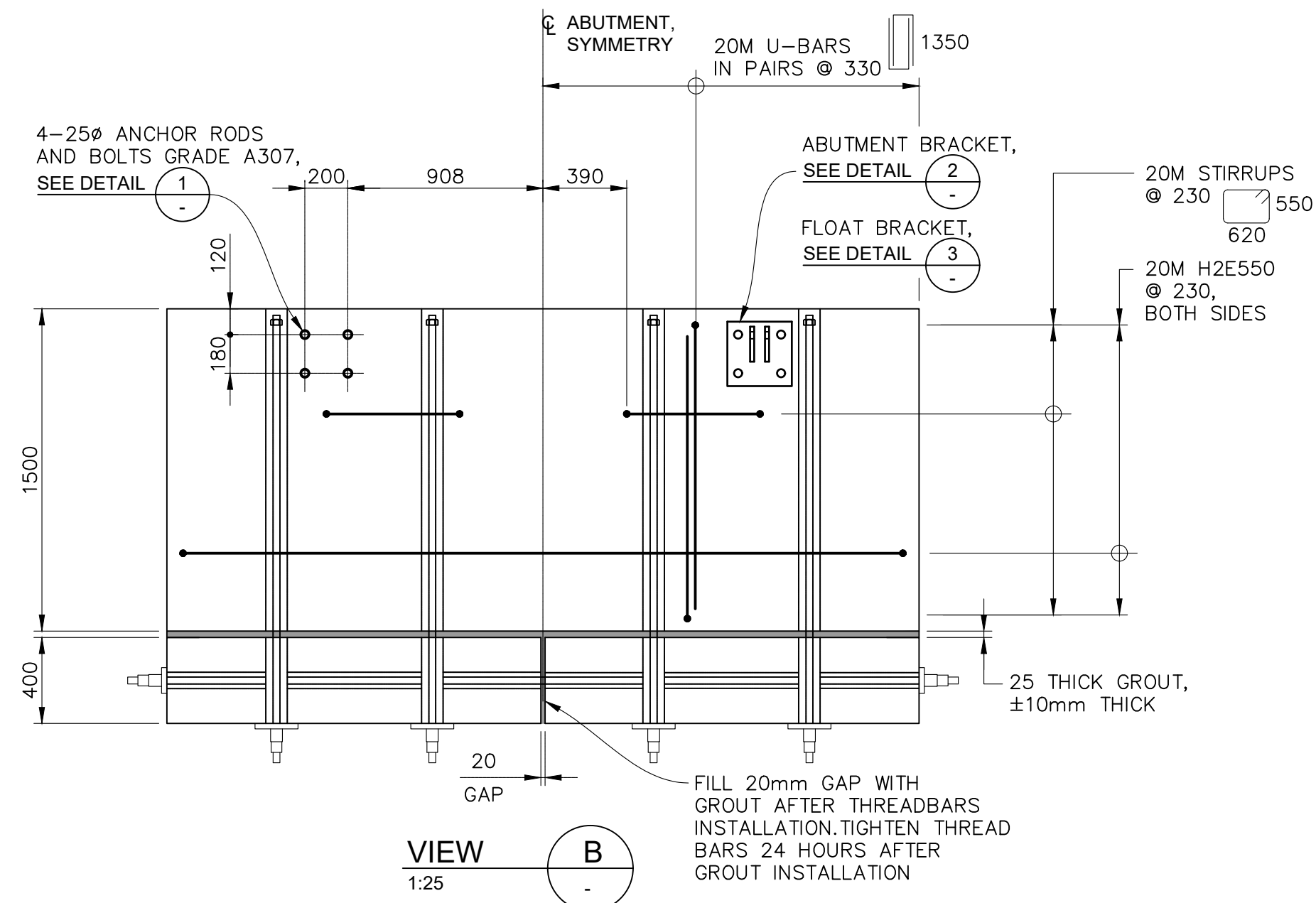


SECTION C
1:5



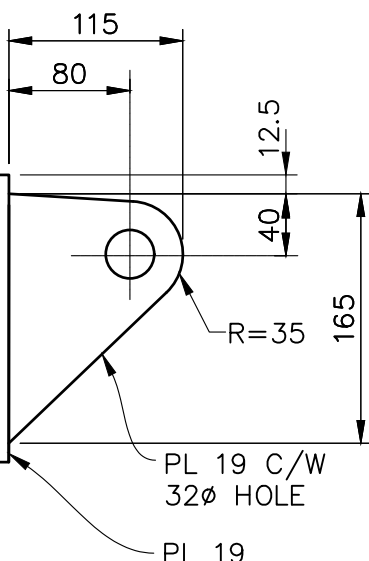
DETAIL 3 FLOAT BRACKET
1:5

NOTE: THIS DETAIL APPLIES TO FLOAT SP1
AT ABUTMENT HINGE ONLY.



DETAIL 1
1:10

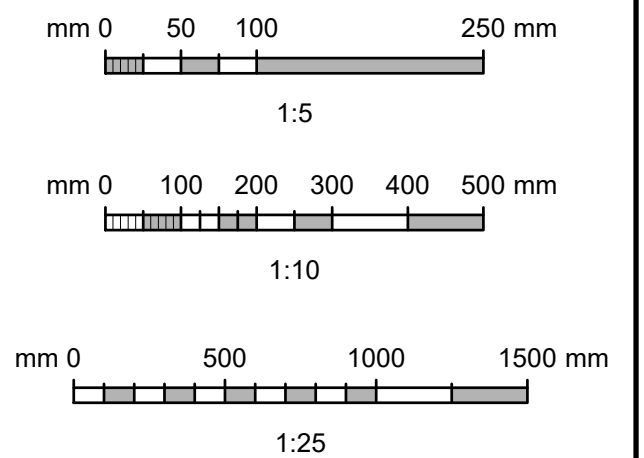
NOTE: FLOAT COVER PLATE NOT
SHOWN FOR CLARITY.



SECTION D
1:5

NOTES:

- FOR DESIGN CRITERIA AND GENERAL NOTES,
SEE DWG. C02.
- ALL ELEVATIONS ARE REFERENCED TO
HYDROGRAPHIC TIDE AND CHART DATUM.
- CONTRACTOR TO PROVIDE LIFTING
HARDWARE. REMOVE HARDWARE AT TOP OF
UPSTAND AND GROUT POCKET TO ACHIEVE
SMOOTH SURFACE WITH NO TRIP HAZARDS.



Revision	Description	Date
2	RE-ISSUED FOR TENDER	2024/12/06
1	ISSUED FOR CLIENT REVIEW	2024/11/25
0	ISSUED FOR TENDER	2022/02/22

Client client

**PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA**

310 - 269 MAIN STREET
WINNIPEG, MANITOBA, R3C 1B3

Project title
ARCTIC BAY, NUNAVUT

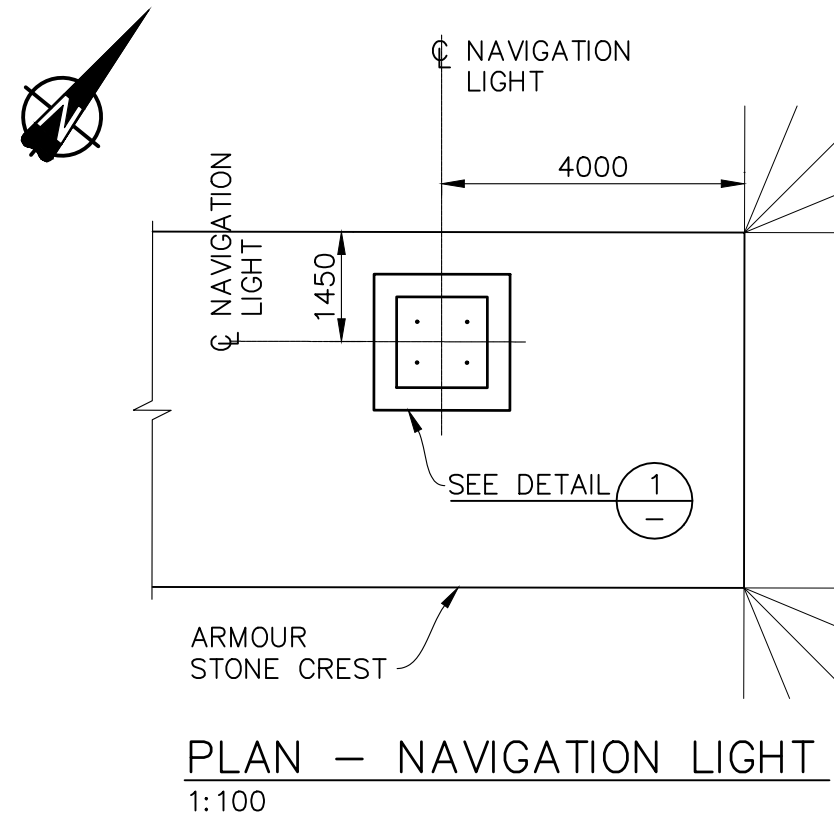
Project
**ARCTIC BAY
HARBOUR DEVELOPMENT**

Designed by KATIE MORRISON	Conçu par KM
Drawn by JENNIFER COPPENDALE	Dessiné par JC
Approved by CHRIS MEISL	Approuvé par CSM
PWSSC Project Manager KENTON THIESSEN	Administrateur de Projets TPSSC

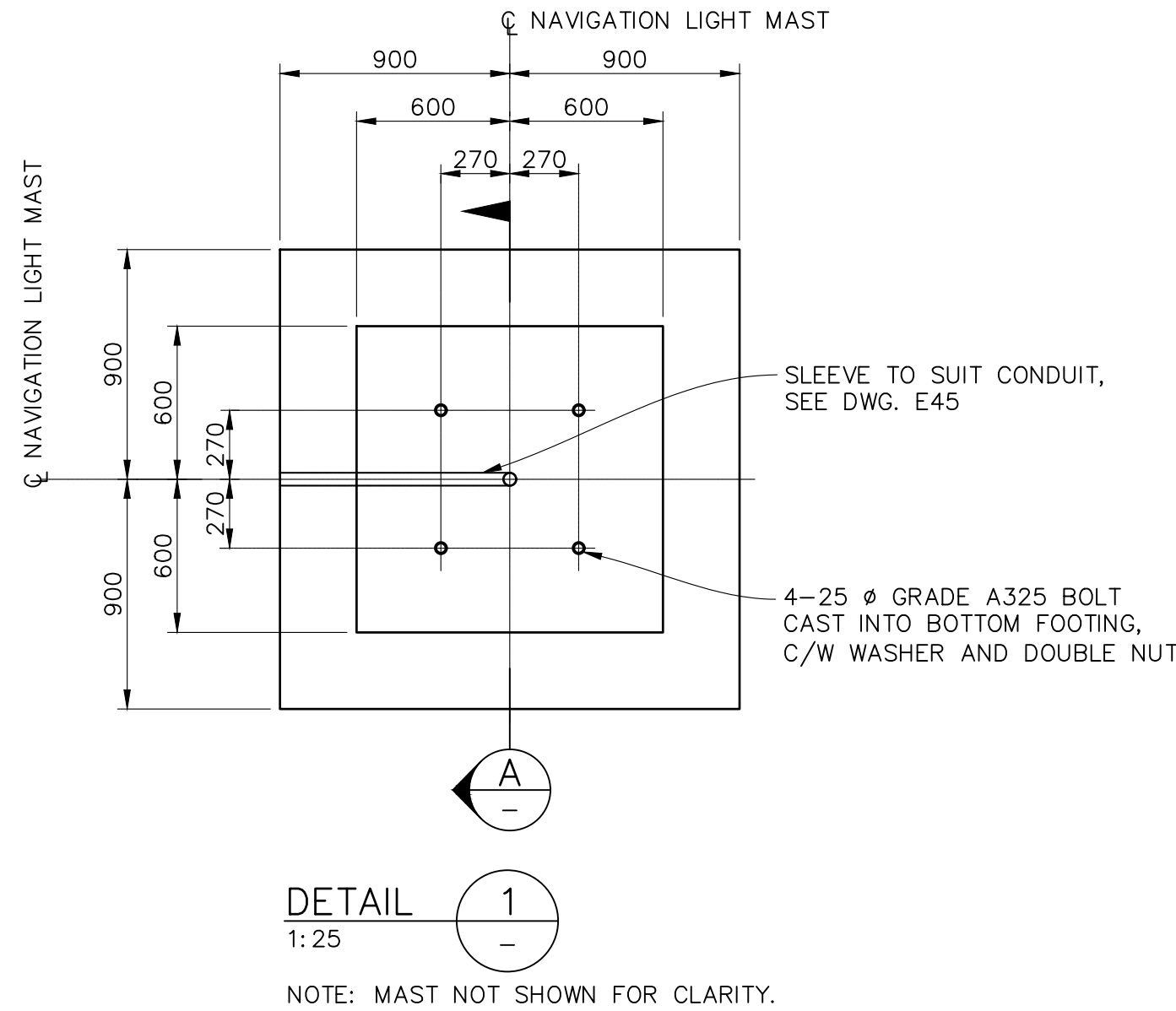
Drawing title
**SMALL CRAFT FLOATS
ABUTMENT DETAILS**

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.110729.001	C37	2

Filename: U:\WR\317071\00037_PWGS_ArcBay\CES\11_Drawings\15_L_and_E\02_Marine\R-110729-001-C40.dwg
Last Saved: Dec. 06/24 12:19pm Plotted: Dec. 6/24

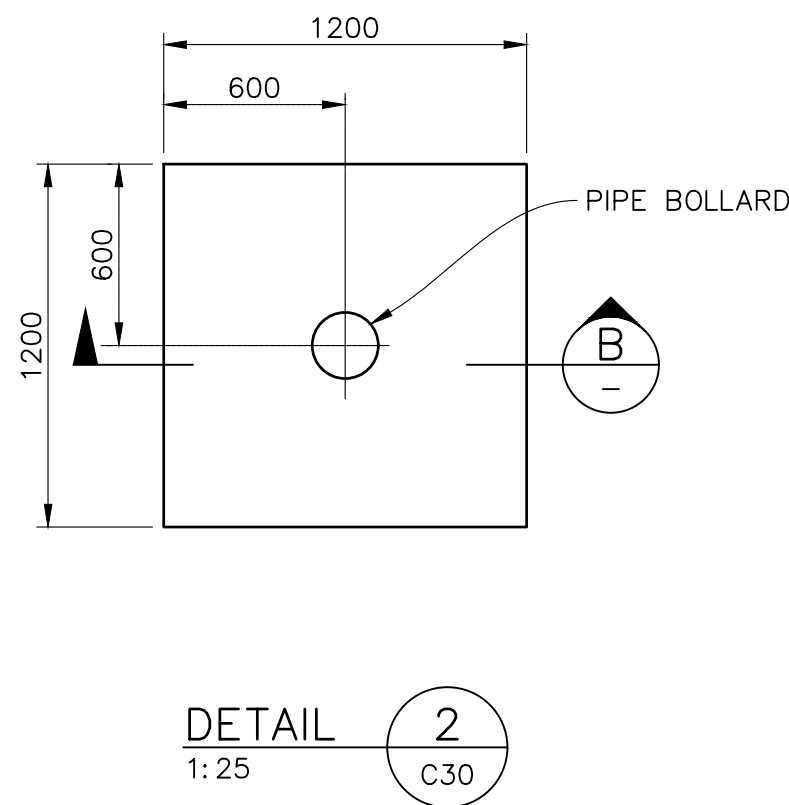


PLAN - NAVIGATION LIGHT
1:100

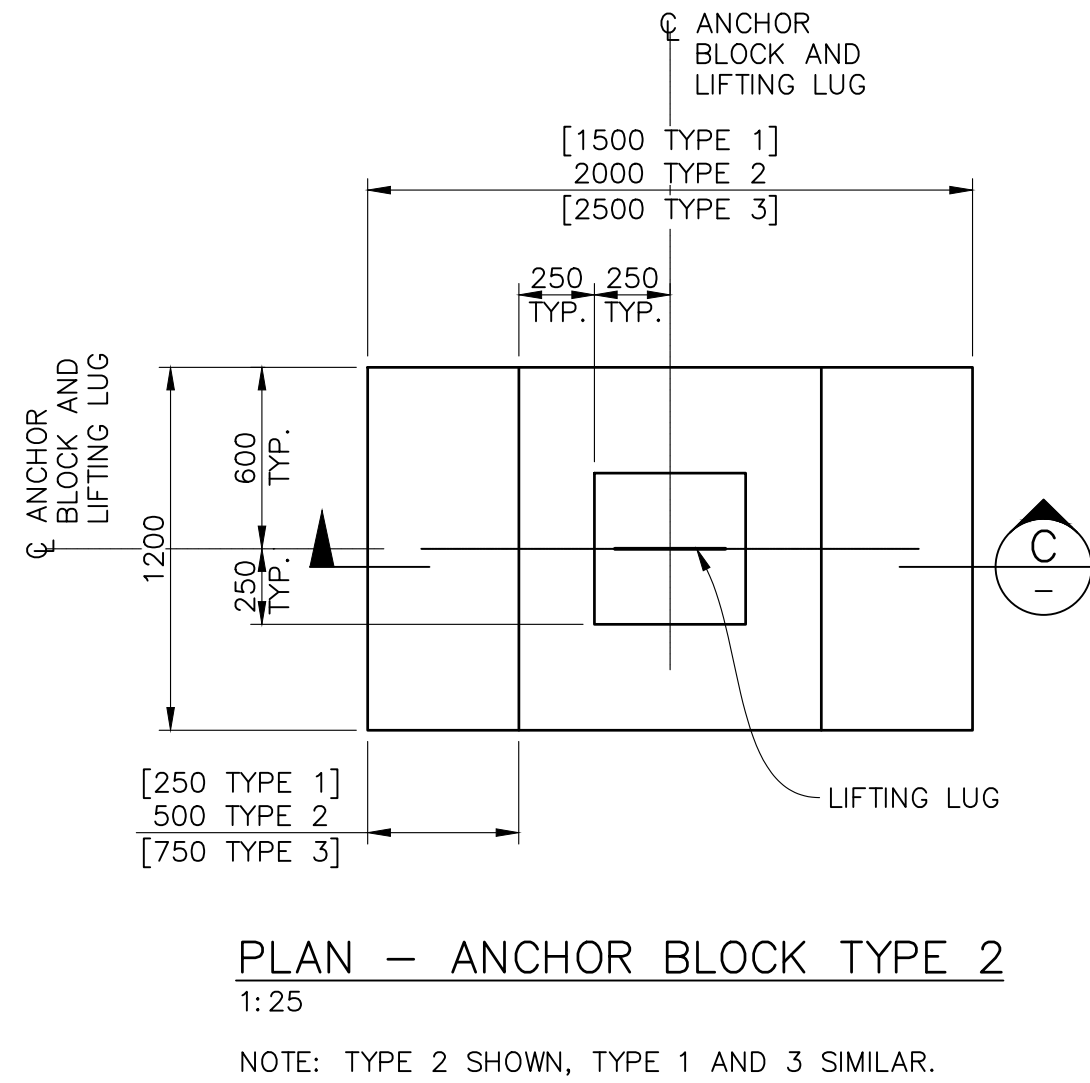


DETAIL 1
1:25

NOTE: MAST NOT SHOWN FOR CLARITY.

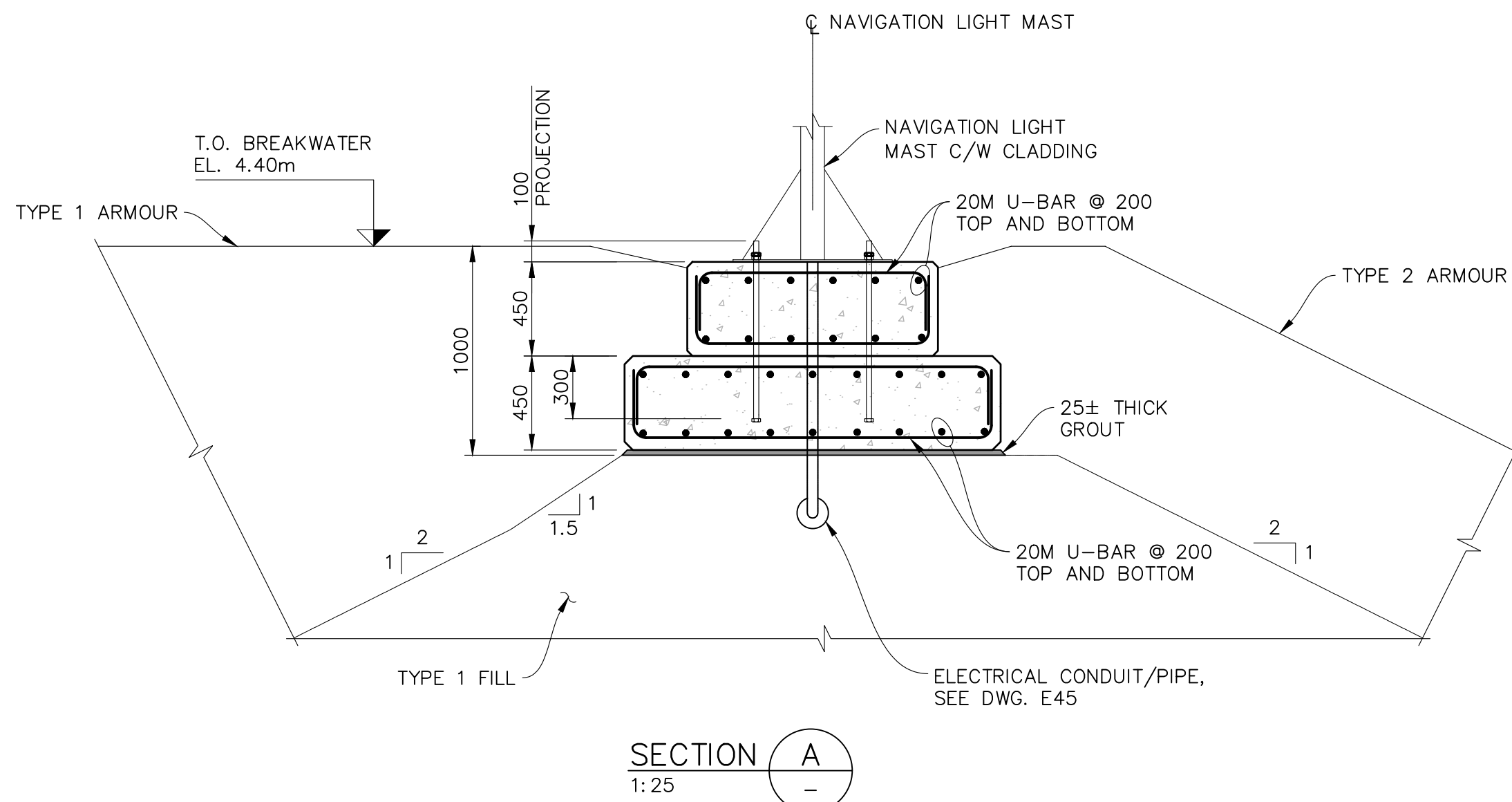


DETAIL 2
1:25

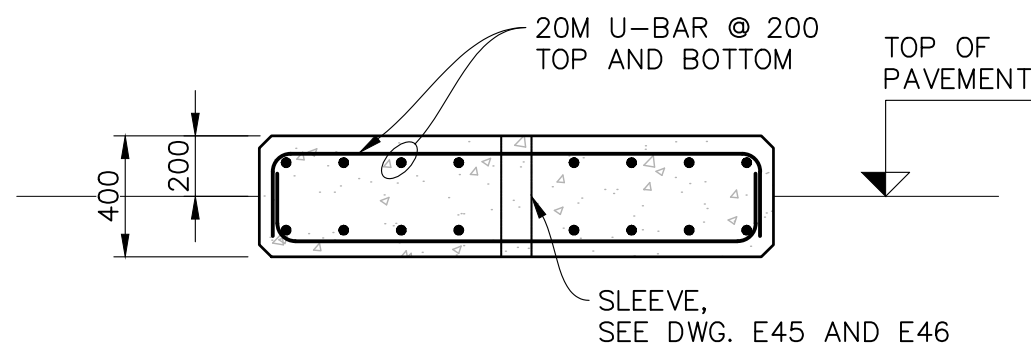


PLAN - ANCHOR BLOCK TYPE 2
1:25

NOTE: TYPE 2 SHOWN, TYPE 1 AND 3 SIMILAR.

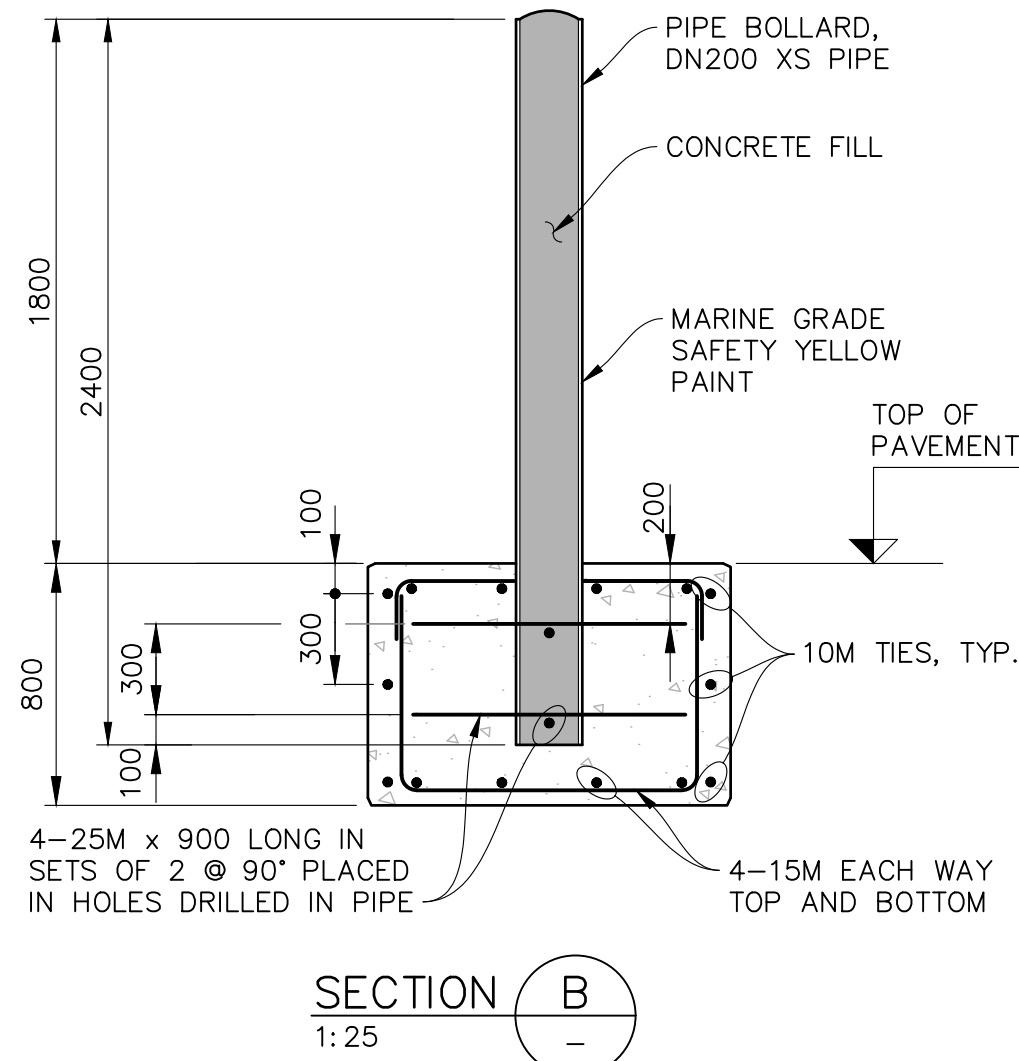


SECTION A
1:25

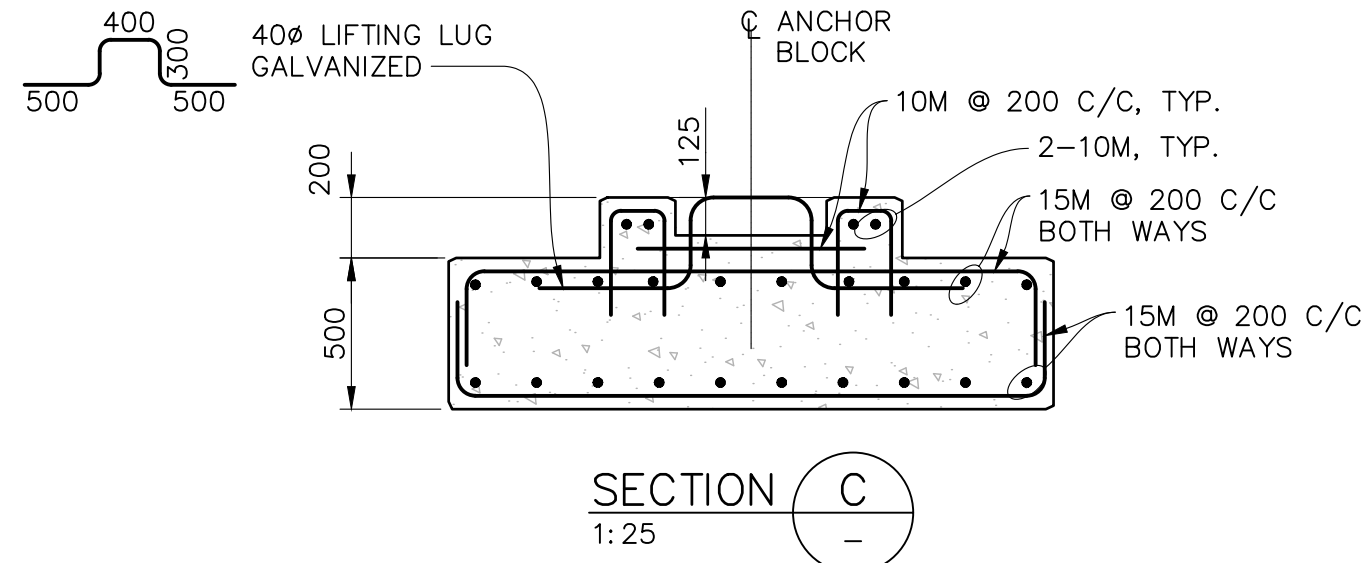


FOOTING FOR KIOSK AND PEDESTALS
1:25

- NOTES:
1. KIOSK FOOTING DIMENSIONS: 1200x3600x400 DEEP
 2. PEDESTAL FOOTING DIMENSIONS: 800x1600x400 DEEP
 3. DIMENSIONS TO BE FINALIZED ON FINAL CABINET DIMENSIONS.



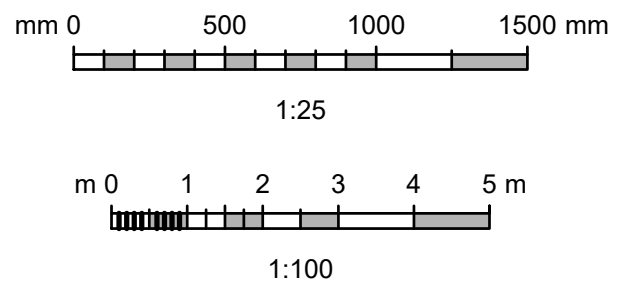
SECTION B
1:25



SECTION C
1:25

NOTES:

1. FOR DESIGN CRITERIA AND GENERAL NOTES, SEE DWG. C02.
2. ALL ELEVATIONS ARE REFERENCED TO HYDROGRAPHIC TIDE AND CHART DATUM.
3. CONTRACTOR TO PROVIDE LIFTING HARDWARE.
4. 25mm CHAMFER ON ALL CONCRETE EDGES.



Revision	Description	Date
2	RE-ISSUED FOR TENDER (GENERAL REVISION)	2024/12/06
1	ISSUED FOR CLIENT REVIEW	2024/11/25
0	ISSUED FOR TENDER	2022/02/22

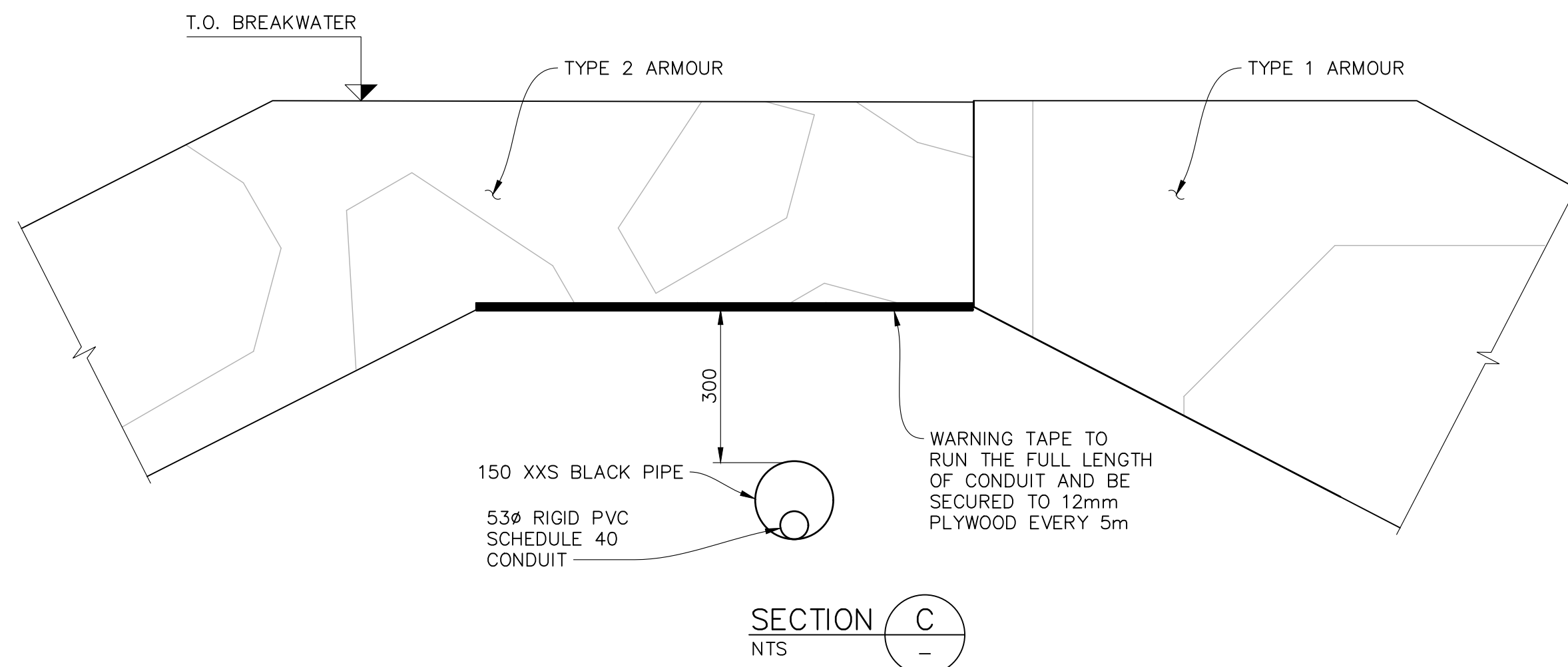
Client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
310 - 269 MAIN STREET
WINNIPEG, MANITOBA, R3C 1B3

Project title
ARCTIC BAY, NUNAVUT
ARCTIC BAY HARBOUR DEVELOPMENT

Designed by
KATIE MORISSON
Drawn by
JENNIFER COPPENDALE
Approved by
CHRIS MEISL
PWSSC Project Manager
KENTON THIESSEN

Drawing title
MISCELLANEOUS DETAILS

Project no./No. du projet
R.110729.001
Drawing no./No. du dessin
C40
Revision no.
2



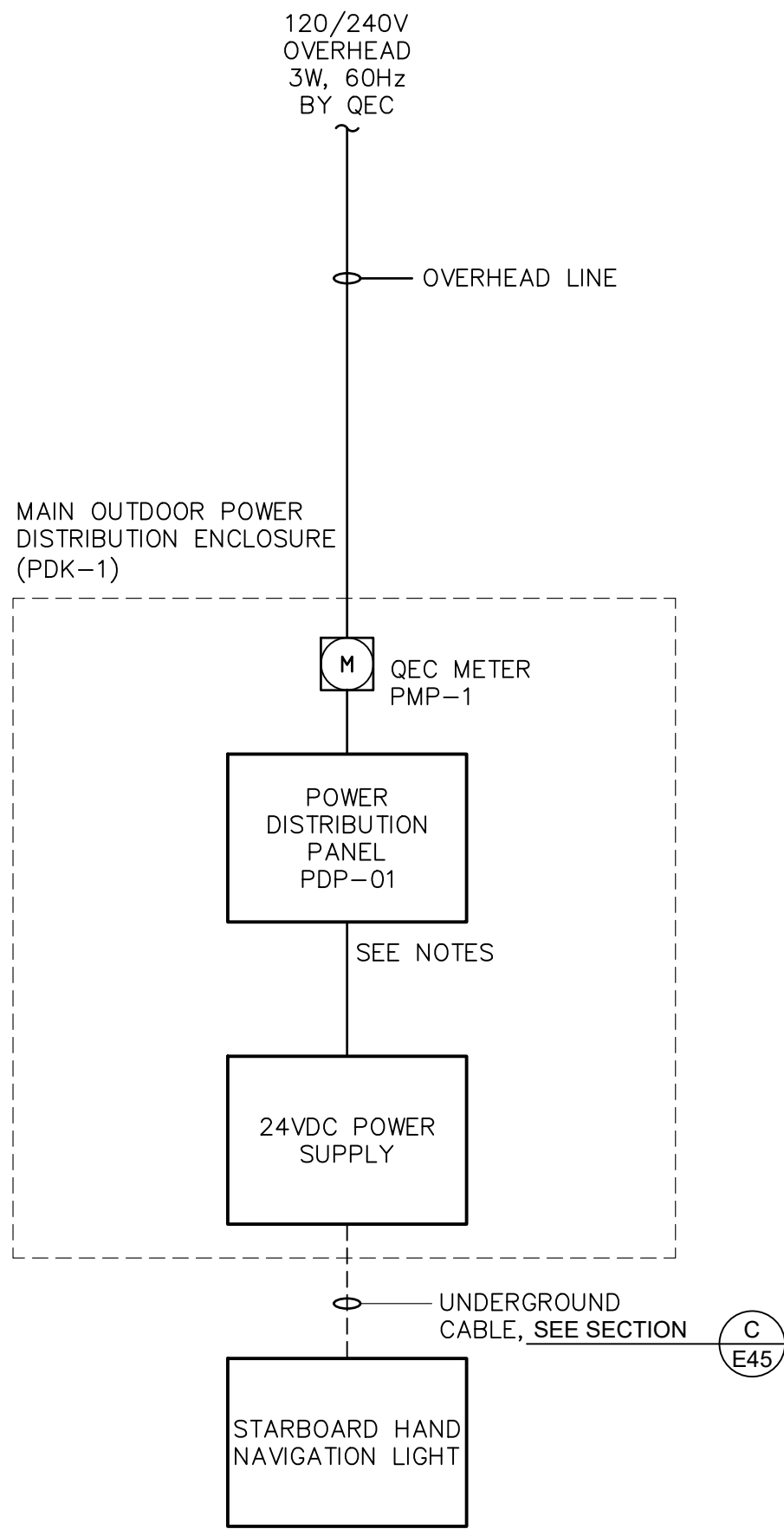
NOTE: ALL FASTENERS TO BE SS316.

Filename: U:\WR\317071\00037_PWGS_ArcBay\CES\11_Drawings\03_Elec\R-110729-001-E46.dwg
Last Saved: Dec. 06/22 4:07pm Plotted: Dec. 0/22

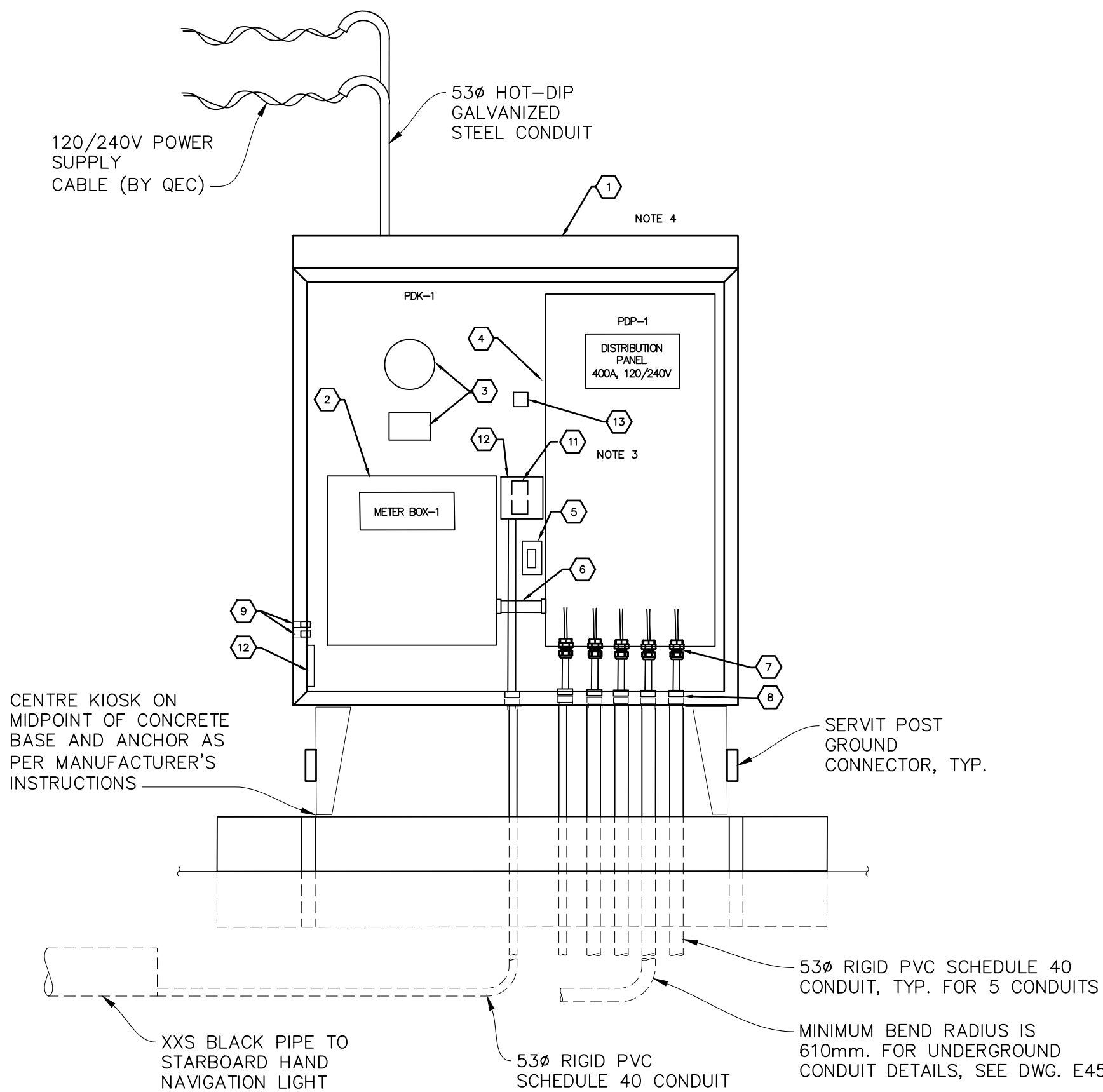
LOAD (W)	DESCRIPTION	BRKR. AMPS.	CIRCUIT NUMBER	BRKR. AMPS.	DESCRIPTION	LOAD (W)
24000	PEDESTAL 1 100A RECEPTACLE	GFCI 100	1	GFCI 100	PEDESTAL 2 100A RECEPTACLE	24000
			3			
			5			
7200	PEDESTAL 1 30A RECEPTACLE	GFCI 30	7	GFCI 30	PEDESTAL 2 30A RECEPTACLE	7200
			9			
1800	PEDESTAL 1 15A RECEPTACLE	GFCI 15	11	GFCI 15	PEDESTAL 2 15A RECEPTACLE	1800
360	RECEPTACLE INSIDE PDK-1	GFCI 15	13	20	HEATER	1500
64	24VDC POWER SUPPLY	GFCI 15	15	15	CHS-1	360
360	CHS-2	GFCI 15	17	15	CHS-3	360
TOTAL DEMAND LOAD = 67 kW (303A)						
400A DISTRIBUTION PANEL PDP-01 120/240V, 1 PHASE						
G ———● NOTE 5 N ———●						

CABLE SCHEDULE									
ITEM	WHERE NO.	FROM	TO	NO. OF CONDUCTOR	CONDUCTOR SIZE	CABLE INSULATION	VOLTAGE	TYPE	CONDUIT NO.
1	PDP1-PEDESTAL1-P1	PDP-1	PEDESTAL-1 100A RECEPTACLE	3	2 AWG	600 V	240 VAC	RW 90	CP-1
2	PDP1-PEDESTAL1-P2	PDP-1	PEDESTAL-1 30A RECEPTACLE	3	8 AWG	600 V	240 VAC	RW 90	CP-1
3	PDP1-PEDESTAL1-P3	PDP-1	PEDESTAL-1 15A RECEPTACLE	3	8 AWG	600 V	120 VAC	RW 90	CP-1
4	BONDING WIRE	PDP-1	PEDESTAL-1 BODY	1	2 AWG	600 V		RW 90	CP-1
5	PDP1-PEDESTAL2-P1	PDP-1	PEDESTAL-2 100A RECEPTACLE	3	2 AWG	600 V	240 VAC	RW 90	CP-2
6	PDP1-PEDESTAL2-P2	PDP-1	PEDESTAL-2 30A RECEPTACLE	3	8 AWG	600 V	240 VAC	RW 90	CP-2
7	PDP1-PEDESTAL2-P3	PDP-1	PEDESTAL-2 15A RECEPTACLE	3	8 AWG	600 V	120 VAC	RW 90	CP-2
8	BONDING WIRE	PDP-1	PEDESTAL-2 BODY	1	2 AWG	600 V		RW 90	CP-2
9	PDP1-NAV1-P1	PDP-1	STARBOARD HAND NAVIGATION LIGHT	3	10 AWG	300 V	24 VDC	RW 90	CP-3

PDK-1 AND PDP-1 BILL OF MATERIALS		
ITEM	QTY.	DESCRIPTION
1	1	WATERSHED LOCKABLE HEATED ENCLOSURE, INSULATED FROM INSIDE, CSA TYP 4X STAINLESS STEEL 316, 1575 (62") H x 1600 (63") W x 457 (18") D, C/W BACKPLATE 1422 (56") H x 1422 (56") W
2	1	METER CABINET 610 (24") x 610 (24") x 254 (10"), SINGLE HINGED DOOR, C/W BACKPLATE
3	1	METER AND METERING COMPONENTS (SUPPLIED AND INSTALLED BY QEC)
4	1	DISTRIBUTION PANEL 400A, 120/240V. SEE PANEL SCHEDULE FOR SIZE AND TYPE OF EACH BREAKER
5	1	HEAVY DUTY DUPLEX RECEPTACLE, 15A, 125V, 2-POLE 3WIRE, MARINE RATED C/W SINGLE GANG ENCLOSURE
6	1	53mm HOT-DIPPED GALVANIZED STEEL CONDUIT
7	A/R	CABLE CONNECETOR
8	A/R	CONDUIT CONNECTOR
9	2	PRESSURE COMPENSATION PLUG 12.7 (½")
10	1	24 VDC, 7.5A POWER SUPPLY, SUITABLE FOR LOW TEMPERATURE ENVIRONMENT
11	1	INSULATED ENCLOSURE 150 (6") H x 150 (6") W x 150 (6") D, CSA TYPE 3R
12	1	FAN HEATER, MIN 600W, 120VAC, 60 Hz, OPERATING TEMPERATURE -45°C TO 30°C
13	1	THERMOSTAT, FUNCTION RANGE: -30°C TO 30°C, AUTOMATIC RESET, CONTACT 20A AT 120VAC, 60 Hz

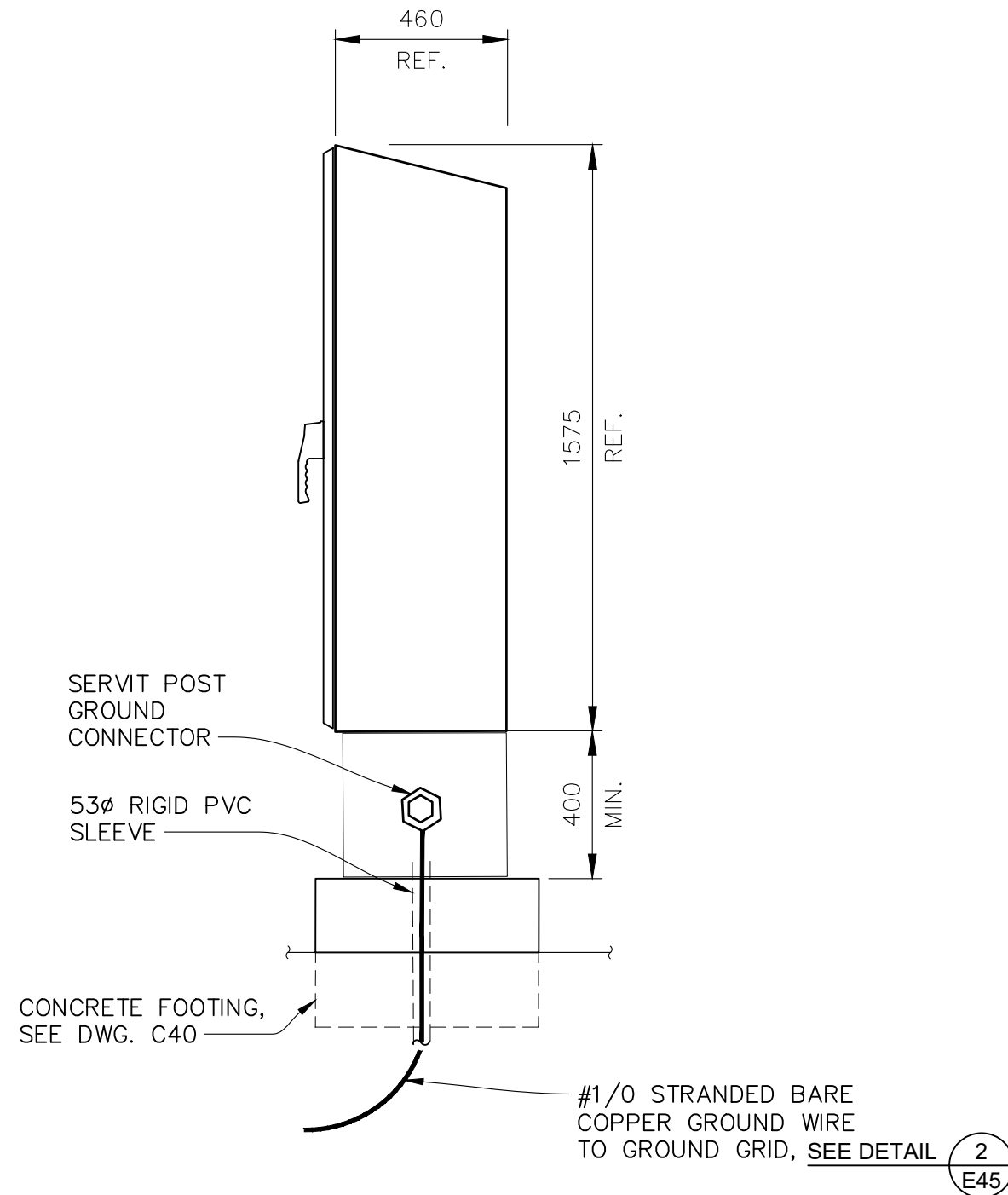


SINGLE LINE DIAGRAM - MAIN DISTRIBUTION PANEL
NTS



FRONT VIEW

MAIN CABINET AT FIXED WHARF
NTS



END VIEW

NOTES:

- FOR INFORMATION ABOUT THE REST OF THE PANEL BOARD LOADS, REFER TO THE PANEL SCHEDULE AND CABLE SCHEDULE.
- NAVIGATION LIGHT TO BE INSTALLED BY CCG.
- THERMOSTAT SHALL BE SET AT -10°C.
- PROVIDE INSULATED CABINET WALLS AND DOORS FOR PDK-1.
- PROVIDE 120V THIN BREAKERS TO ALLOW ADDITIONAL SIX 15A SPARE BREAKERS.

1	ISSUED FOR TENDER	2022/12/06
Revision	Description	Date
Client		client

PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA

310 - 269 MAIN STREET
WINNIPEG, MANITOBA, R3C 1B3

Project title ARCTIC BAY, NUNAVUT
Projet

ARCTIC BAY
HARBOUR DEVELOPMENT

Designed by EBRAHIM MANESH
Conçu par

Drawn by EBRAHIM MANESH
Dessiné par

Approved by HARALD KULLMANN
Approuvé par

PWSSC Project Manager KENTON THIESSEN
Administrateur de Projets TPSSC

Drawing title SINGLE LINE DIAGRAMS, SCHEDULES AND PANEL LAYOUTS
Titre du dessin

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.110729.001	E46	1