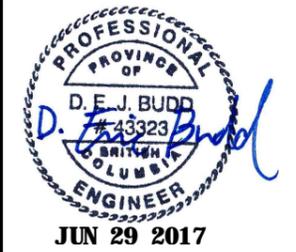
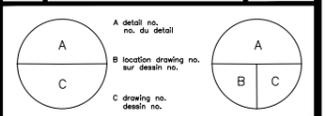


Opitsat Small Craft Harbour Electrical Upgrade 2017



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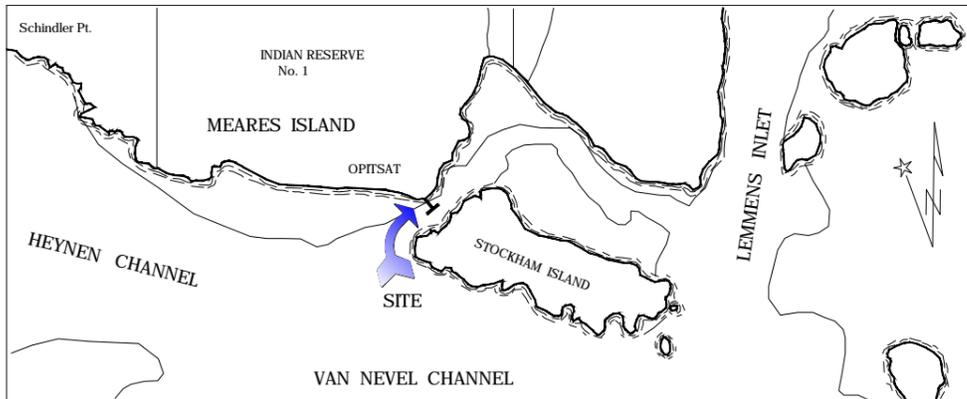
B	ISSUED FOR TENDER	30 JUN 2017
A	PRELIMINARY DESIGN REVIEW	30 MAR 2017



project
OPITSAT SCH
MEARES ISLAND, BC
ELECTRICAL UPGRADE

drawing
TITLE SHEET

designed	ADAM BEHIELS	concu
date	MARCH 2017	
drawn	COLIN FAIR	dessin
date	MARCH 2017	
approved	—	approuvé
date	—	
tender	—	Submission
PWOSC Project Manager	Administrateur de projets TPSCC	
project no.	F1571-165118	no. du projet
drawing no.	EO	no. du dessin



LOCATION CHART

DESCRIPTION

A. The structures are located at the First Nation Village of Opitsat on Meares Island near Tofino, B.C.

Latitude: 49° 10' 23" N
Longitude: 126° 54' 45" W

B. The structures consist of four floats with trestle approach to shore. The floats are pontoon-type, moored with creosoted piles, and mooring chain.

C. The structures are approached directly from a path in the village.

D. There is no equipment on the structures.

E. These structures are in order for public use.

F. Limiting Loads:

Approach 500 kg/m²

Floats 125 Kg/m²

No vehicles permitted.

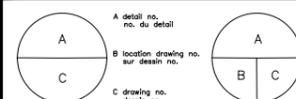
Contract Drawings	
No.	Sheet Title
E0	Title Sheet
E1	Power Plan
E2	Single Line Diagram
E3	Grounding Diagram
E4	Electrical Service
E5	Cabinet & Equipment Mounting Details
E6	Receptacle Cabinet Details

Reference Drawings	
No.	Sheet Title
AK15-001	Al umi num Ki osk
AK15-002	Al umi num Ki osk
AK15-003	Al umi num Ki osk
AK15-004	Al umi num Ki osk
AK15-005	Al umi num Ki osk
CE45R14	Steel Std. Round Pole, 14 FT



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project
OPITSAT SCH
MEARES ISLAND, BC
ELECTRICAL UPGRADE

drawing desin

POWER PLAN

designed ADAM BEHIELS concu

date MARCH 2017

drown COLIN FAIR dessine

date MARCH 2017

approved — approuve

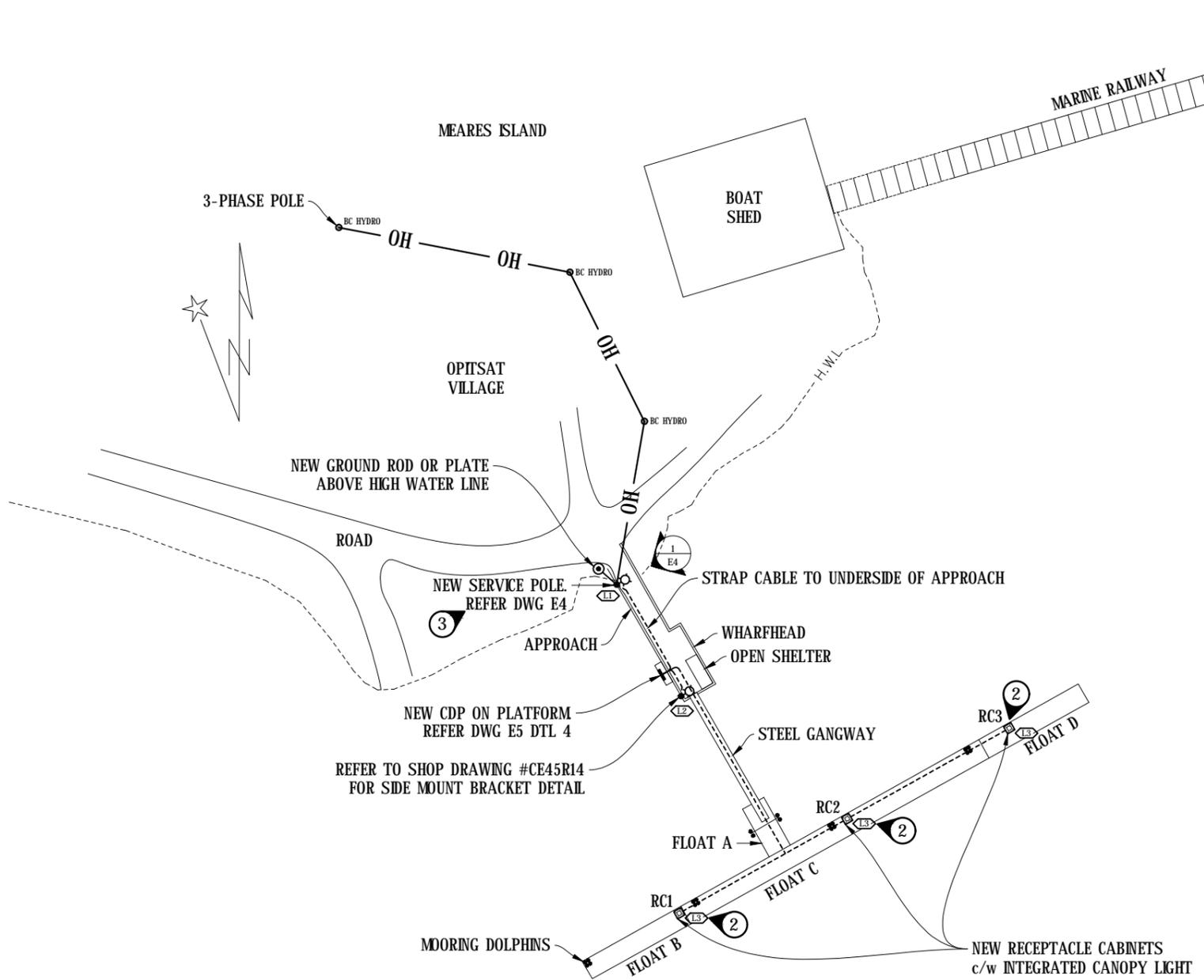
date —

tender — Soumission

PWOSC Project Manager Administrateur de projets TPWSC

project no. F1571-165118 no. du projet

drawing no. E1 no. du dessin



KEYNOTES ①

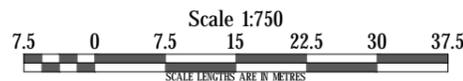
1. ALL WORK SHOWN NEW THIS CONTRACT.
2. ALL CABINET CANOPY LIGHTS ON SAME CIRCUIT AS POLE LIGHTS TO ALLOW FOR COMMON PHOTO CONTROL. REFER TO SINGLE LINE DIAGRAM DWG E2.
3. CONTRACTOR TO INSTALL NEW SERVICE POLE & METER BASE UNDER THIS CONTRACT. CONTRACTOR TO COORDINATE INSTALLATION WITH BC HYDRO.

SITE PLAN SYMBOL LEGEND

- POLE-MOUNTED LUMNAIRE. L# DENOTES LUMNAIRE TYPE. REFER TO LUMNAIRE SCHEDULE.
- ◊ L# LUMNAIRE TYPE. REFER TO SCHEDULE BELOW.
- ☐ RC# POWER RECEPTACLE CABINET (RC#) w/ TYPE L3 CANOPY LIGHT c/w FOUR (4) 15A RECEPTACLES & FOUR (4) 30A RECEPTACLES. REFER NOTE 1.
- CABLES FASTENED TO UNDERSIDE OF DECK STRUCTURE.

LUMNAIRE & POLE SCHEDULE

TYPE	POLE HEIGHT	POLE MFR & CATALOGUE NUMBER	LUMNAIRE DESCRIPTION	MFR.	MODEL	CATALOGUE NUMBER
◊ L1	—' MOUNTED TO HORIZONTAL SURFACE OF DECK	REFER DWG E4	73W, 120-277V, 8800lm, 3000K CCT, DISTRIBUTION TYPE 2, INTEGRAL INFRARED MOTION RESPONSE, BIRD DETERRENT, SLIPFITTER MOUNT	PHILIPS GARDCO	ECOFORM ECF-S	ECF-S-32L-700-WW-G2-SF-2-UNV-IMR3-MGY c/w ECF-BD-G2 & ECF-SF-G2-MGY
◊ L2	14' c/w SIDE-MOUNT BRACKET	REFER DWG #CE45R14 FOR POLE & BRACKET	73W, 120-277V, 8800lm, 3000K CCT, DISTRIBUTION TYPE 2, INTEGRAL INFRARED MOTION RESPONSE, BIRD DETERRENT, SLIPFITTER MOUNT	PHILIPS GARDCO	ECOFORM ECF-S	ECF-S-32L-700-WW-G2-SF-2-UNV-IMR3-MGY c/w ECF-BD-G2 & ECF-SF-G2-MGY
◊ L3	N/A (MOUNTED IN RCPT CABINETS)	N/A	36W, 120-277V, 4400lm, 3000K CCT, DISTRIBUTION TYPE 1R, INTEGRAL INFRARED MOTION RESPONSE	PHILIPS GARDCO	7200	G3-MRCP-1R-700-WW-G2-UNV-MGY



① **POWER PLAN**



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project: OPITSAT SCH
MEARES ISLAND, BC
ELECTRICAL UPGRADE

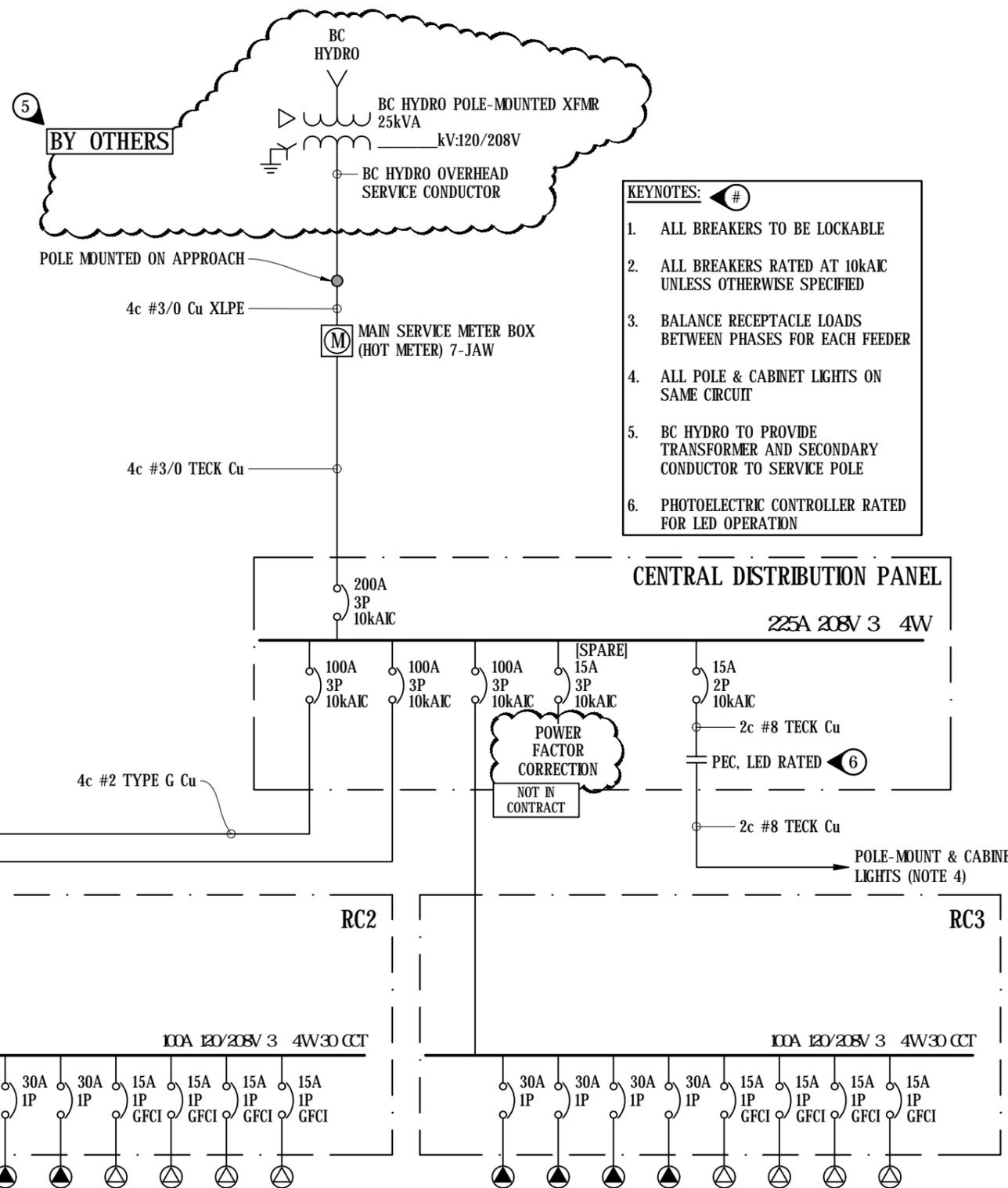
drawing: SINGLE LINE DIAGRAM

designed	ADAM BEHIELS	conçu
date	MARCH 2017	
drawn	COLIN FAIR	dessiné
date	MARCH 2017	
approved		approuvé
date		

Tender: PWOSC Project Manager / Administrateur de projets TPSCC

project no.: F1571-165118 / no. du projet

drawing no.: E2 / no. du dessin



REFER TO DWG E3
FOR GROUNDING

- KEYNOTES:**
- ALL BREAKERS TO BE LOCKABLE
 - ALL BREAKERS RATED AT 10kAIC UNLESS OTHERWISE SPECIFIED
 - BALANCE RECEPTACLE LOADS BETWEEN PHASES FOR EACH FEEDER
 - ALL POLE & CABINET LIGHTS ON SAME CIRCUIT
 - BC HYDRO TO PROVIDE TRANSFORMER AND SECONDARY CONDUCTOR TO SERVICE POLE
 - PHOTOELECTRIC CONTROLLER RATED FOR LED OPERATION

RECEPTACLE LEGEND

- ▲ 30A LOCKING RECEPTACLE (L5-30R)
- △ 15A LOCKING RECEPTACLE (L5-15R)

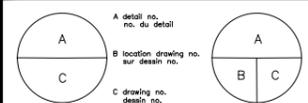
1 SINGLE LINE DIAGRAM

File: X:\282 Fisheries & oceans canada\282-07 opitsat harbour electrical upgrade\06 drawings\Opitsat Electrical.dwg Plot Time: Jun 30, 2017 - 9:56am User: colinfair



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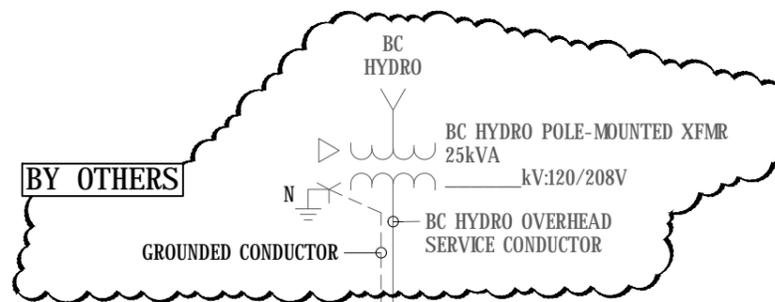
project
OPITSAT SCH
MEARES ISLAND, BC
ELECTRICAL UPGRADE

drawing
GROUNDING DIAGRAM

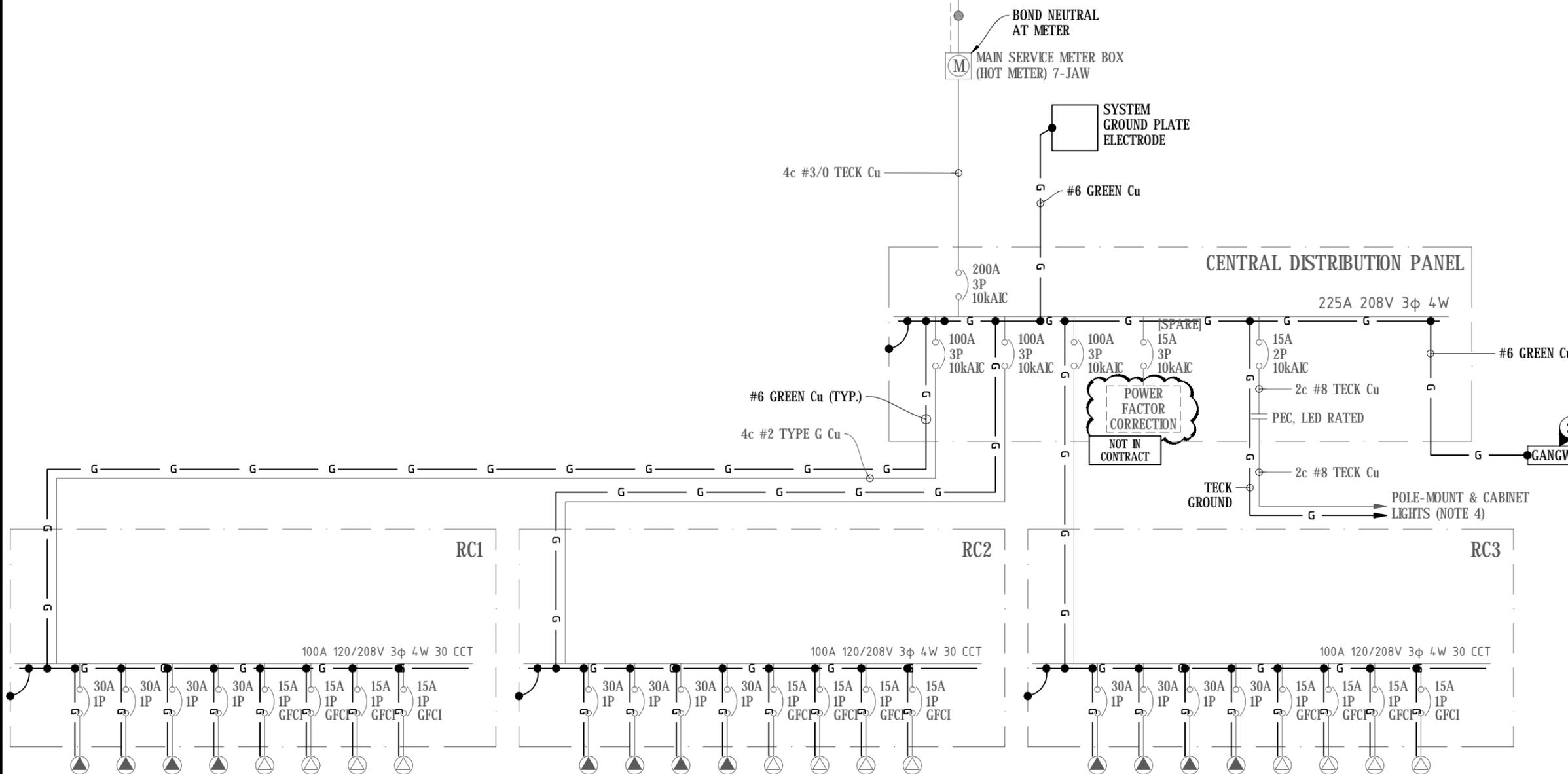
designed	ADAM BEHIELS	conçu
date	MARCH 2017	
drawn	COLIN FAIR	dessiné
date	MARCH 2017	
approved	—	approuvé
date	—	
tender	—	Submission
PWOSC Project Manager	Administrateur de projets TPSC	

project no.
F1571-165118
no. du projet

drawing no.
E3
no. du dessin



- GROUNDING KEYNOTES:** #
- BOND ALL ENCLOSURES BACK TO SYSTEM GROUND
 - BOND GANGWAY TO SYSTEM GROUND



POWER FACTOR CORRECTION
NOT IN CONTRACT

- RECEPTACLE LEGEND**
- 30A LOCKING RECEPTACLE (L5-30R)
 - 15A LOCKING RECEPTACLE (L5-15R)

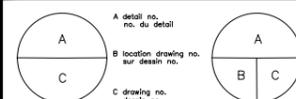
1 GROUNDING DIAGRAM

File: X:\282 - Fisheries & oceans canada\282-07 opitsat harbour electrical upgrade\06 drawings\Opitsat Electrical.dwg Plot Time: Jun 30, 2017 - 9:46am User: colinfair



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project
OPITSAT SCH
MEARES ISLAND, BC
ELECTRICAL UPGRADE

drawing
ELECTRICAL SERVICE

designed ADAM BEHIELS concu

date MARCH 2017

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date MARCH 2017

approved — approve

date —

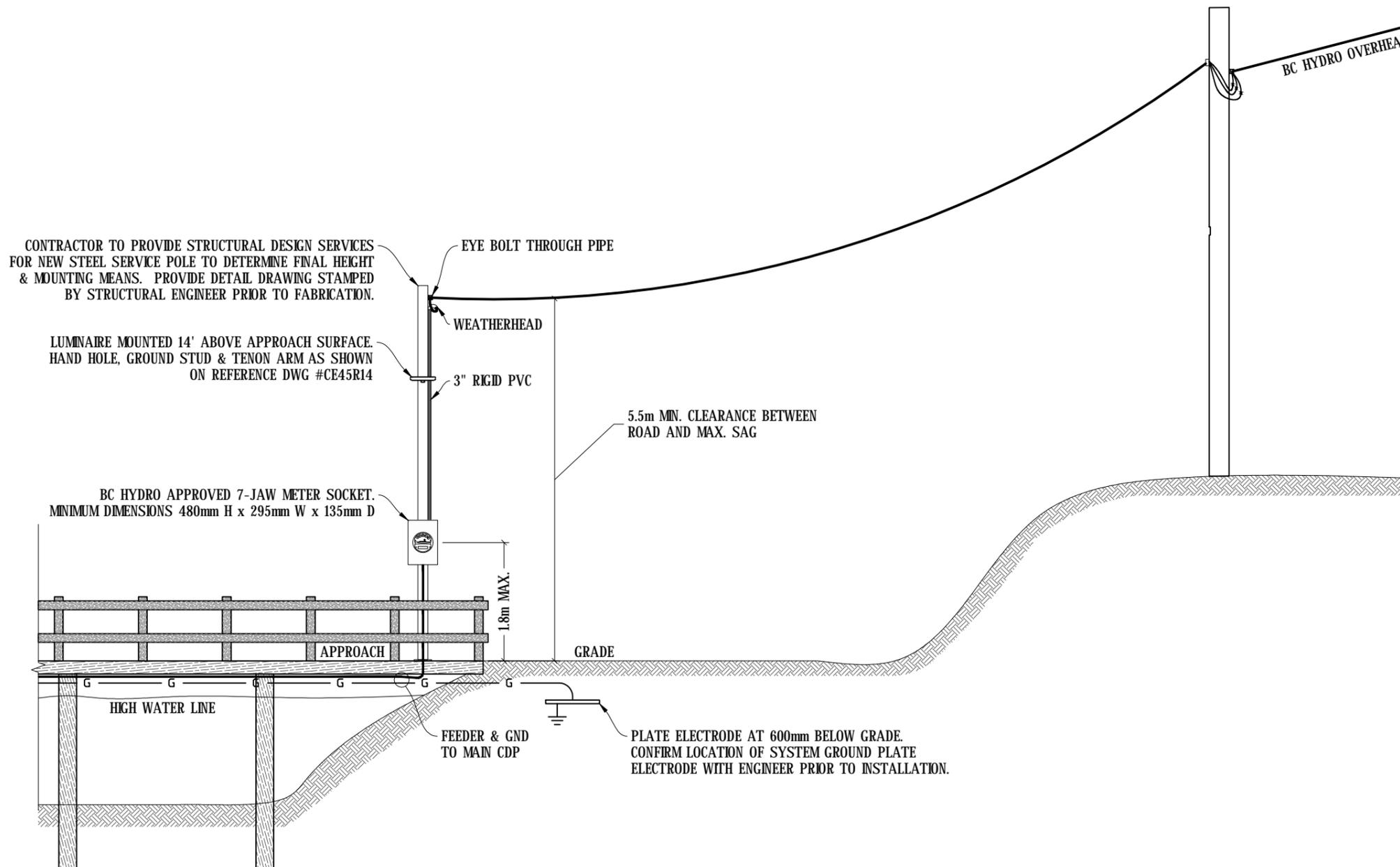
tender — Soumission

PWSC Project Manager Administrateur de projets TPSC

project no. F1571-165118 no. du projet

drawing no. E4 no. du dessin

NOTES
1. BC HYDRO TO PROVIDE UPSTREAM TRANSFORMER AND OVERHEAD CONDUCTOR TO NEW SERICE POLE. COORDINATE CONNECTION & ENERGIZATION WITH BC HYDRO

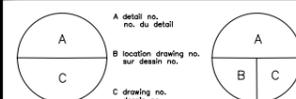


1 SERVICE POLE DETAILS - ELEVATION VIEW LOOKING WEST

Scale: NTS

File: X:\282 fisheries & oceans canada\F282-R07 opitsat harbour electrical upgrade\06 drawings\Opitsat Electrical.dwg Plot Time: Jun 30, 2017 - 9:46am User: colin.fair

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project
OPITSAT SCH
MEARES ISLAND, BC
ELECTRICAL UPGRADE
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drawing
desin

CABINET & EQUIPMENT MOUNTING DETAILS
—
—

designed ADAM BEHIELS concu

date MARCH 2017

drown COLIN FAIR dessine

date MARCH 2017

approved — approuve

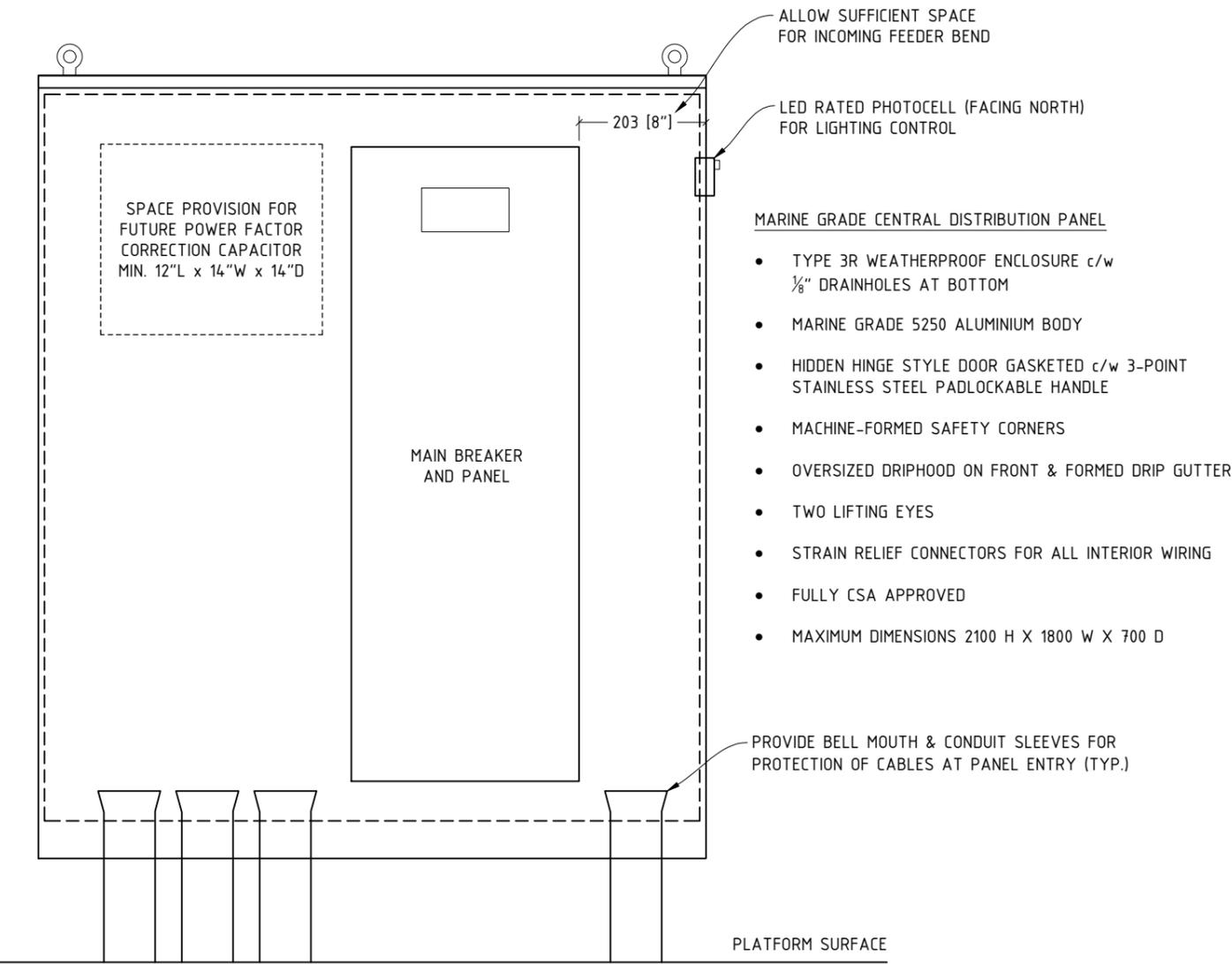
date —

tender — Soumission

PWOSC Project Manager Administrateur de projets TPSCC

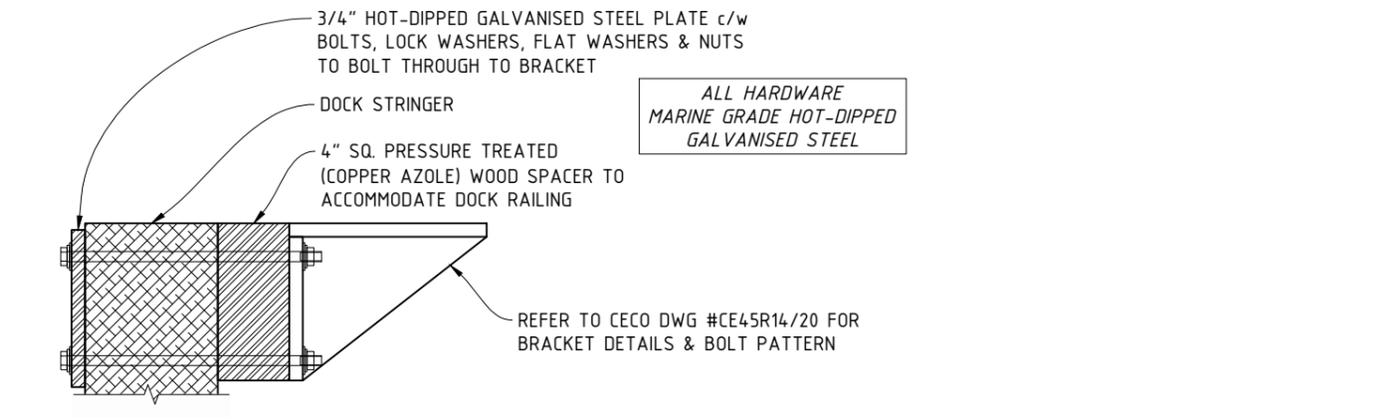
project no. F1571-165118 no. du projet

drawing no. E5 no. du dessin



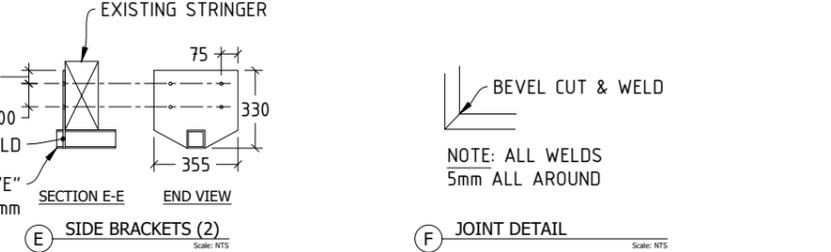
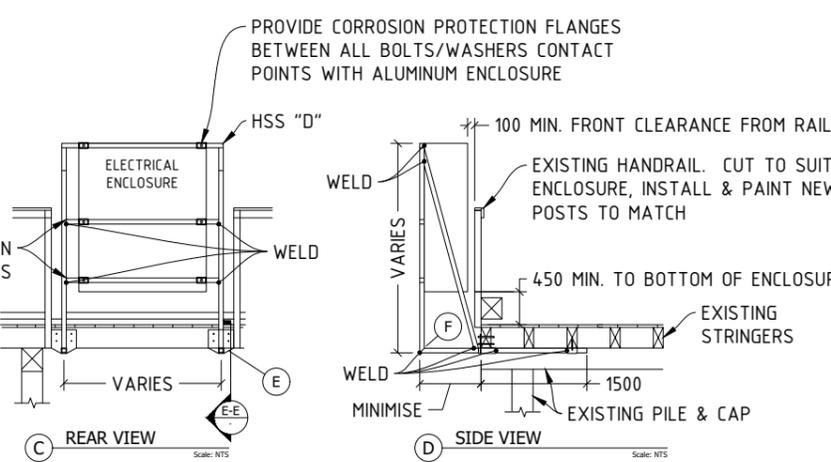
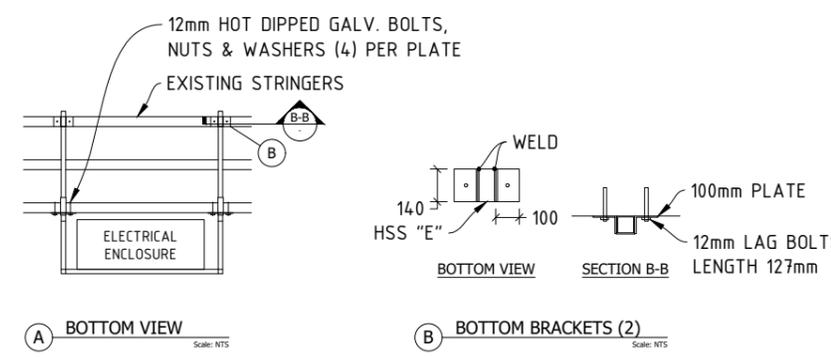
1 CENTRAL DISTRIBUTION PANEL - FRONT VIEW (LESS DOOR FOR CLARITY)
Scale: NTS

- MARINE GRADE CENTRAL DISTRIBUTION PANEL**
- TYPE 3R WEATHERPROOF ENCLOSURE c/w 1/8" DRAINHOLES AT BOTTOM
 - MARINE GRADE 5250 ALUMINIUM BODY
 - HIDDEN HINGE STYLE DOOR GASKETED c/w 3-POINT STAINLESS STEEL PADLOCKABLE HANDLE
 - MACHINE-FORMED SAFETY CORNERS
 - OVERSIZED DRIPHOOD ON FRONT & FORMED DRIP GUTTER
 - TWO LIFTING EYES
 - STRAIN RELIEF CONNECTORS FOR ALL INTERIOR WIRING
 - FULLY CSA APPROVED
 - MAXIMUM DIMENSIONS 2100 H X 1800 W X 700 D



2 SIDE-MOUNT LIGHT POLE BRACKET MOUNTING DETAIL
Scale: NTS

NOTES:
1. REFER TO PLAN DRAWING E1 FOR APPROXIMATE LOCATION OF CDP. CONFIRM FINAL LOCATION WITH ENGINEER PRIOR TO ROUGH-IN.



- NOTES:**
1. ALL BOLT HOLES 14mm ϕ
 2. ALL WELDS 5mm ALL AROUND
 3. CAP ALL ENDS
 4. ALL STEEL SURFACES TO BE HOT DIPPED GALVANISED. MARINE GRADE 5250 ALUMINIUM OF EQUAL STRENGTH MAY BE USED.

CDP SUPPORT PLATFORM DETAIL IS SHOWN AS A GUIDE ONLY. CONTRACTOR TO PROVIDE STRUCTURAL DESIGN SERVICES FOR NEW CDP SUPPORT TO DETERMINE MATERIAL REQUIREMENTS & MOUNTING MEANS. PROVIDE DETAIL DRAWING STAMPED BY STRUCTURAL ENGINEER PRIOR TO FABRICATION.

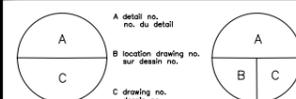
3 CDP SUPPORT PLATFORM DETAIL
Scale: NTS

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project
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MEARES ISLAND, BC
ELECTRICAL UPGRADE
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—

drawing desin

RECEPTACLE CABINET
DETAILS
—
—

designed	ADAM BEHIELS	concu
date	MARCH 2017	
drawn	COLIN FAIR	desine
date	MARCH 2017	
approved	—	approve
date	—	
tender	—	Submission

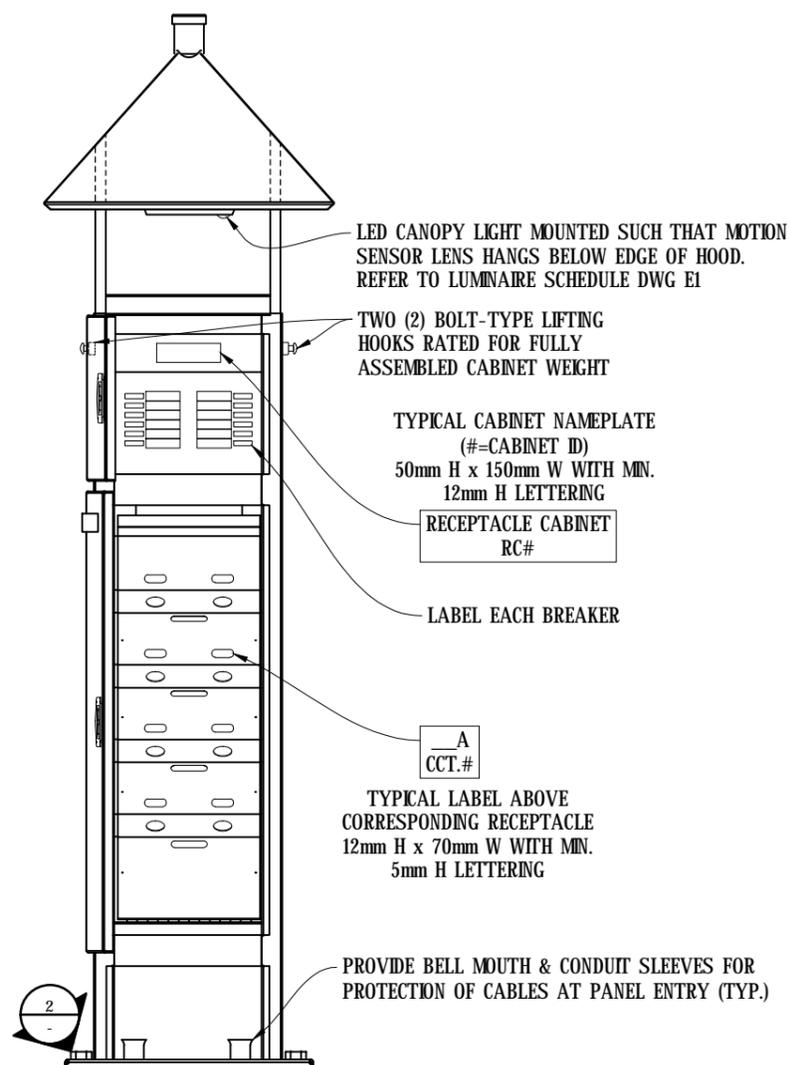
PWOSC Project Manager / Administrateur de projets TPSCC

project no. / no. du projet
F1571-165118

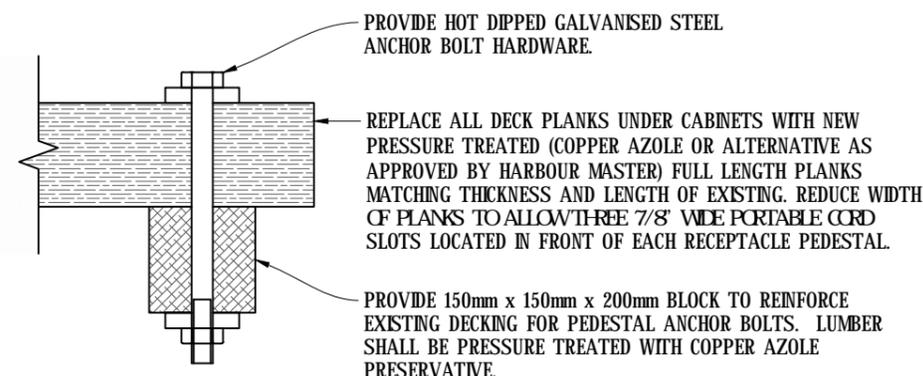
drawing no. / no. du desin
E6

GENERAL NOTES:

1. PROVIDE PANEL SCHEDULE IN EACH PEDESTAL. PROVIDE NEW LABELLING AT MAIN PANEL.
2. CONTRACTOR TO DETERMINE WHERE EXTRA FLOATATION WILL BE REQUIRED TO BALANCE THE FLOAT FREE BOARD AND REPORT TO CONSULTANT. FLOTATION UNIT WILL BE SUPPLIED BY OWNER.
3. ALL LABELS TO BE 1/8" THICK PHENOLIC LAMINATE SHEET (LAMICOID) OR LASER ENGRAVED METAL, MECHANICALLY FASTENED TO ENCLOSURE AS SHOWN.
4. ALL ENCLOSURES TO INCLUDE MINIMUM ONE DRAINHOLE LARGE ENOUGH TO ALLOW CONDENSATION OR INGRESSED WATER TO DRAIN FASTER THAN IT CAN ACCUMULATE.
5. ROOF SECTION TO BE WELDED TO ENCLOSURE. MANUFACTURER TO INSTALL LUMNAIRE CONDUCTORS INTERNALLY THROUGH ROOF SUPPORTS.
6. ALL CABINET LOCKS TO BE KEYED THE SAME.
7. PROVIDE STRAIN RELIEF CONNECTORS TO SUPPORT ALL INTERIOR WIRING.
8. REFER TO PLAN DRAWING E1 FOR APPROXIMATE LOCATION OF RECEPTACLE CABINETS.
- 8.1. CONFIRM FINAL LOCATION WITH ENGINEER PRIOR TO ROUGH-IN.

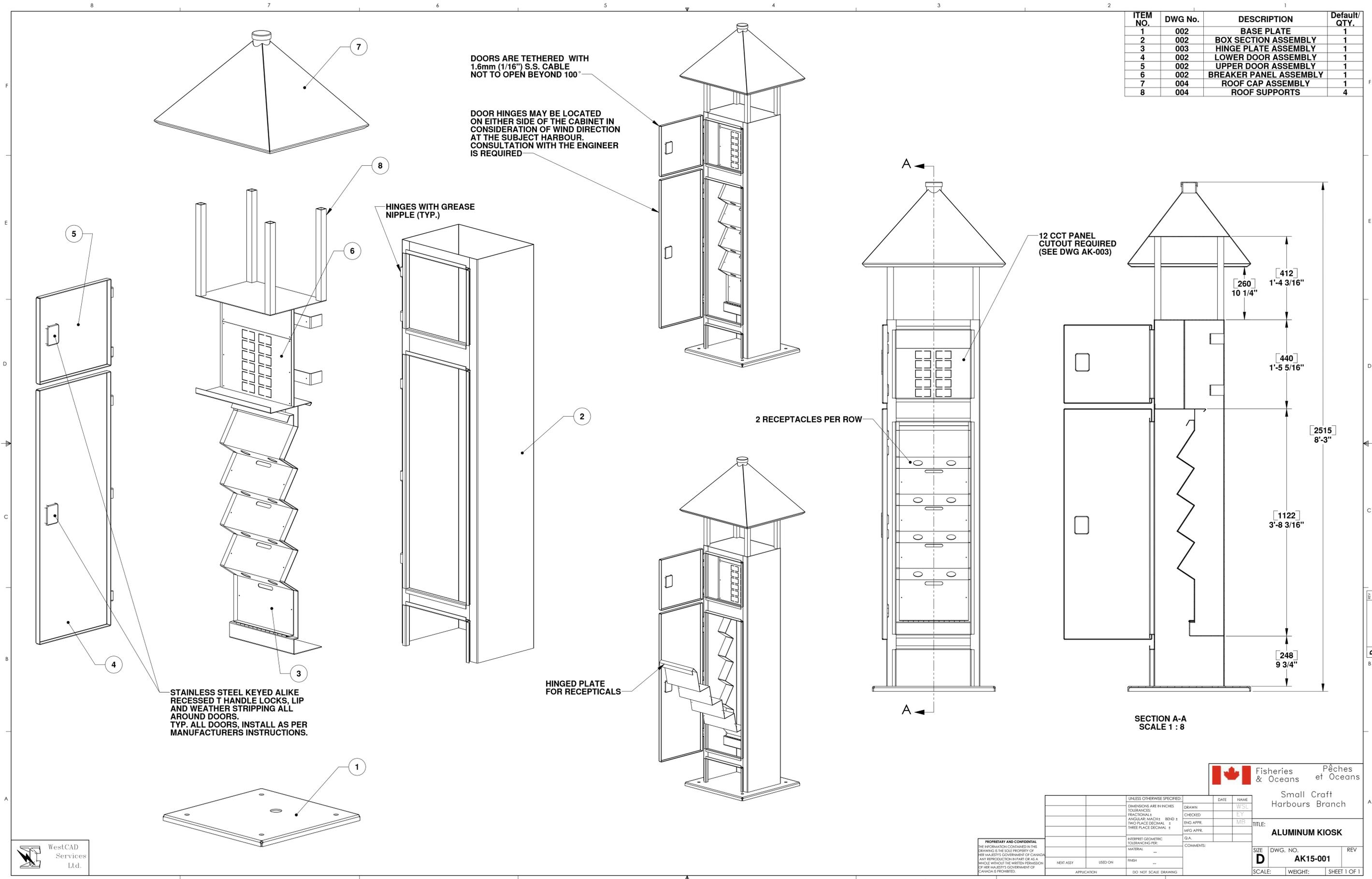


1 RECEPTACLE CABINET (RC#) - FRONT VIEW (TYP)
Scale: NTS



2 ANCHOR BOLT DETAIL (TYP)
Scale: NTS

ITEM NO.	DWG No.	DESCRIPTION	Default/ QTY.
1	002	BASE PLATE	1
2	002	BOX SECTION ASSEMBLY	1
3	003	HINGE PLATE ASSEMBLY	1
4	002	LOWER DOOR ASSEMBLY	1
5	002	UPPER DOOR ASSEMBLY	1
6	002	BREAKER PANEL ASSEMBLY	1
7	004	ROOF CAP ASSEMBLY	1
8	004	ROOF SUPPORTS	4

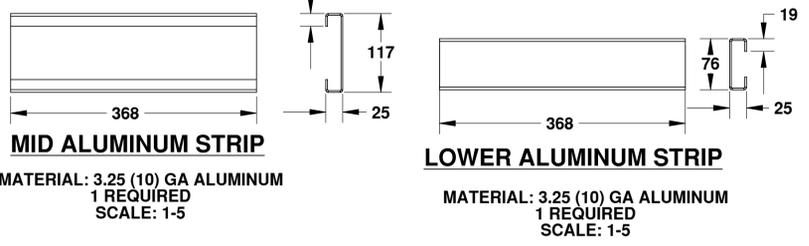
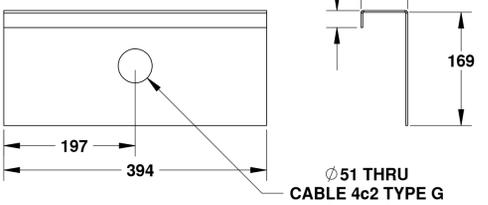
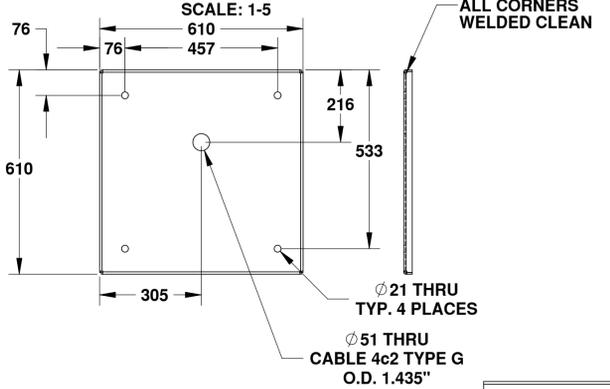
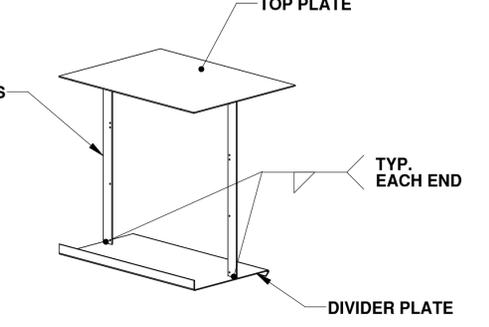
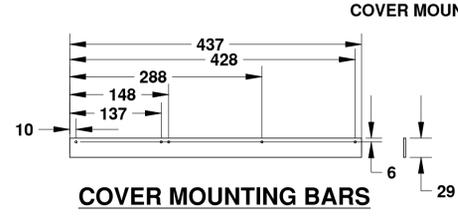
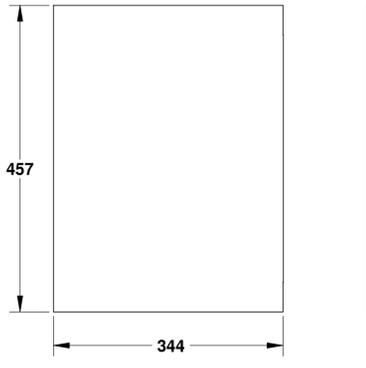
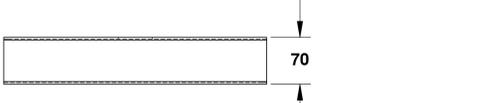
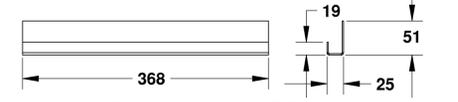
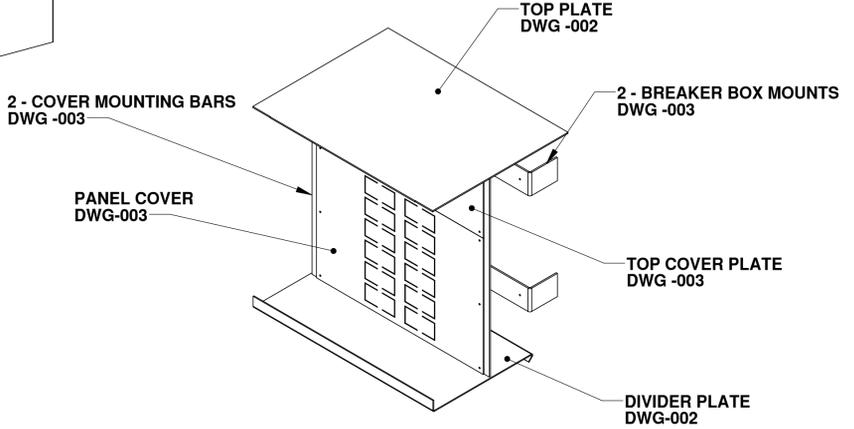
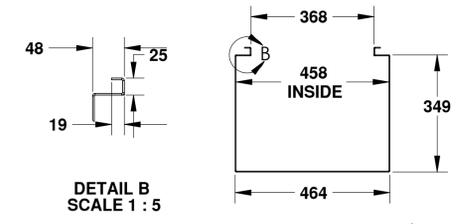
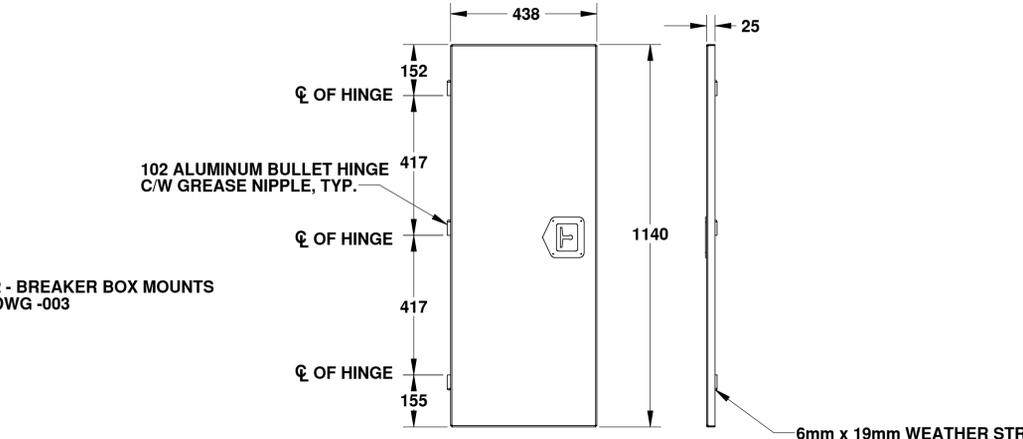
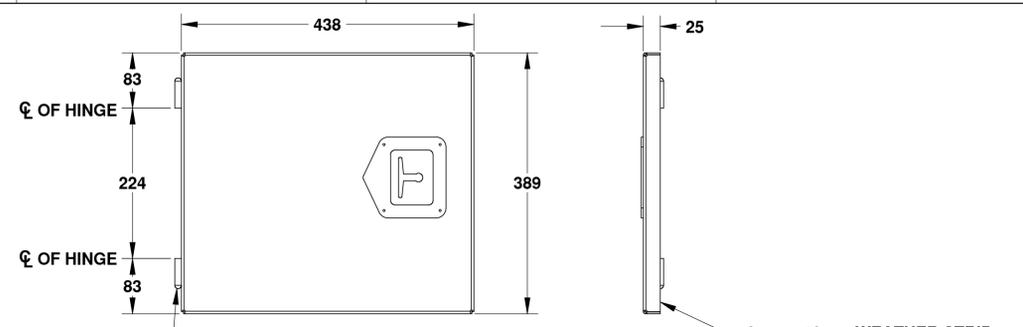
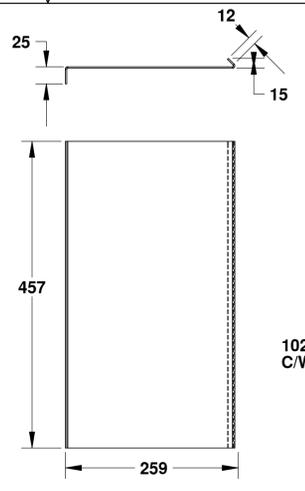
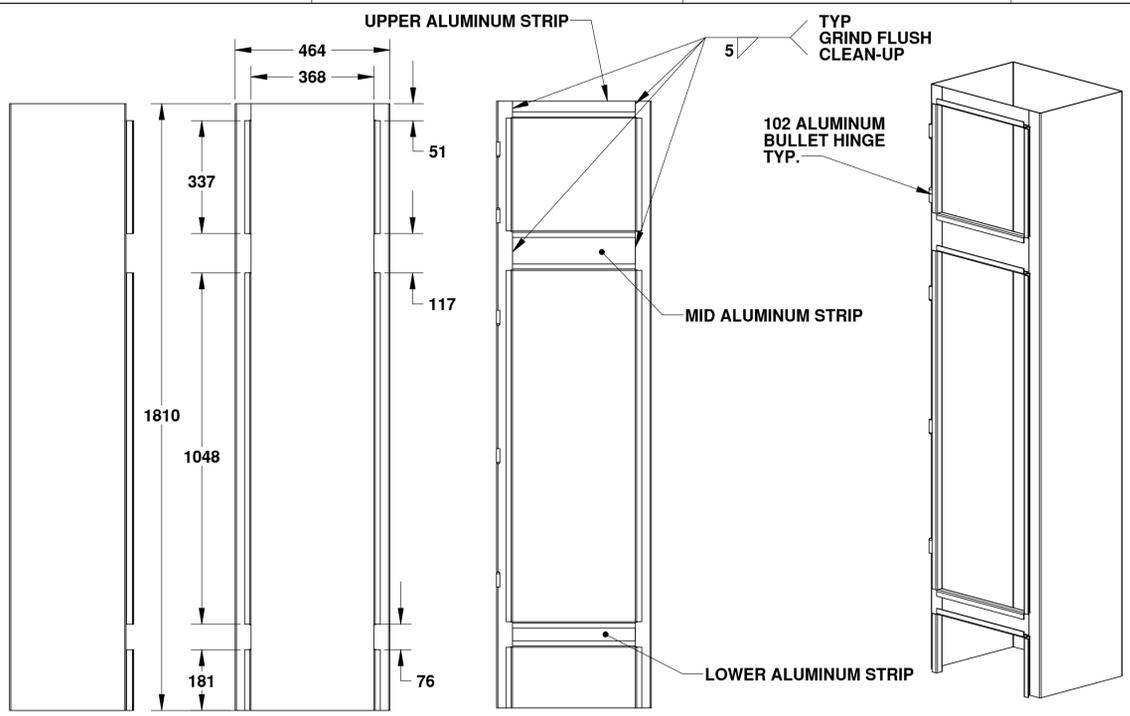


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UNLESS OTHERWISE SPECIFIED:		DATE	NAME
DIMENSIONS ARE IN INCHES	DRAWN		W.S.L.
TOLERANCES:	CHECKED		E.Y.
FRACTIONAL: ±	ENG APPR.		M.S.
ANGULAR: MATCH BEND ±	MFG APPR.		
TWO PLACE DECIMAL: ±			
THREE PLACE DECIMAL: ±			
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
MATERIAL:	COMMENTS:		
FINISH:			
NEXT ASSY:	DO NOT SCALE DRAWING		
USED ON:			
APPLICATION:			



Small Craft Harbours Branch
ALUMINUM KIOSK
 DWG. NO. **AK15-001**
 SCALE: WEIGHT: SHEET 1 OF 1



NOTE:
 FOR ALUMINUM SHEET FLATTEN LAYOUTS
 SEE DWG. AK15-005

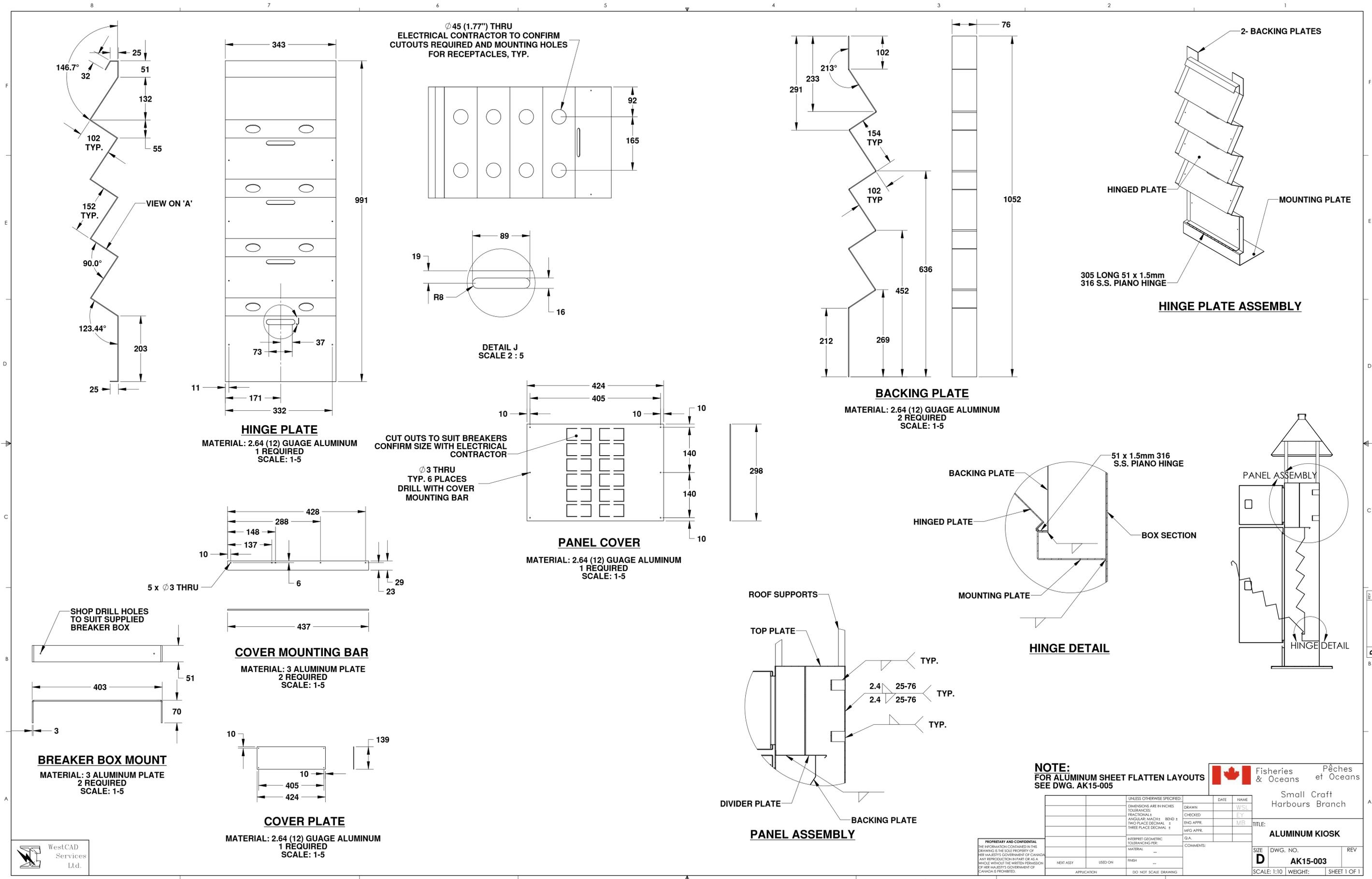
Fisheries & Oceans / Pêches et Océans
 Small Craft Harbours Branch

UNLESS OTHERWISE SPECIFIED:	DATE	NAME
DIMENSIONS ARE IN INCHES		WSL
TOLERANCES:		EY
FRACTIONAL: 1/16	DRAWN	
ANGULAR: MAX 1/2 BEND 1/2	CHECKED	
TWO PLACE DECIMAL: ±	ENG APPR.	MB
THREE PLACE DECIMAL: ±	MFG APPR.	
INTERPRET GEOMETRIC TOLERANCING PER:	O.A.	
MATERIAL: --	COMMENTS:	
FINISH: --		
NEXT ASSY:	APPLICATION:	DO NOT SCALE DRAWING
USED ON:		

SIZE	DWG. NO.	REV
D	AK15-002	
SCALE: 1:10	WEIGHT:	SHEET 1 OF 1



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Ø 45 (1.77") THRU
ELECTRICAL CONTRACTOR TO CONFIRM
CUTOUTS REQUIRED AND MOUNTING HOLES
FOR RECEPTACLES, TYP.

DETAIL J
SCALE 2 : 5

BACKING PLATE
MATERIAL: 2.64 (12) GAUGE ALUMINUM
2 REQUIRED
SCALE: 1-5

HINGE PLATE
MATERIAL: 2.64 (12) GAUGE ALUMINUM
1 REQUIRED
SCALE: 1-5

PANEL COVER
MATERIAL: 2.64 (12) GAUGE ALUMINUM
1 REQUIRED
SCALE: 1-5

COVER MOUNTING BAR
MATERIAL: 3 ALUMINUM PLATE
2 REQUIRED
SCALE: 1-5

BREAKER BOX MOUNT
MATERIAL: 3 ALUMINUM PLATE
2 REQUIRED
SCALE: 1-5

COVER PLATE
MATERIAL: 2.64 (12) GAUGE ALUMINUM
1 REQUIRED
SCALE: 1-5

NOTE:
FOR ALUMINUM SHEET FLATTEN LAYOUTS
SEE DWG. AK15-005



Small Craft
Harbours Branch

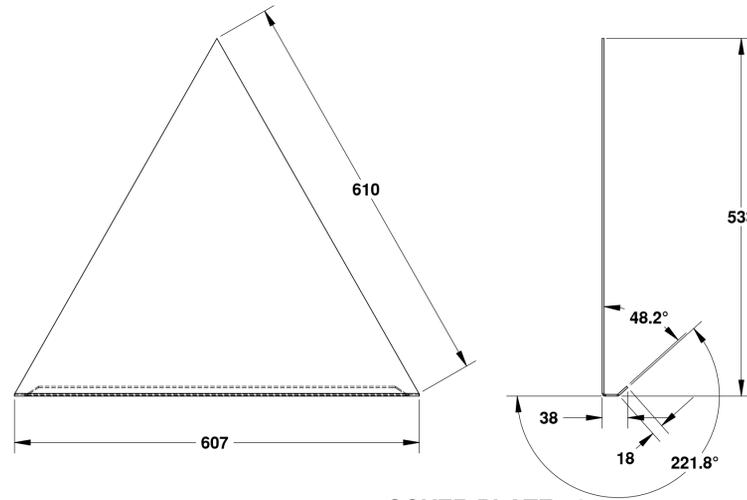
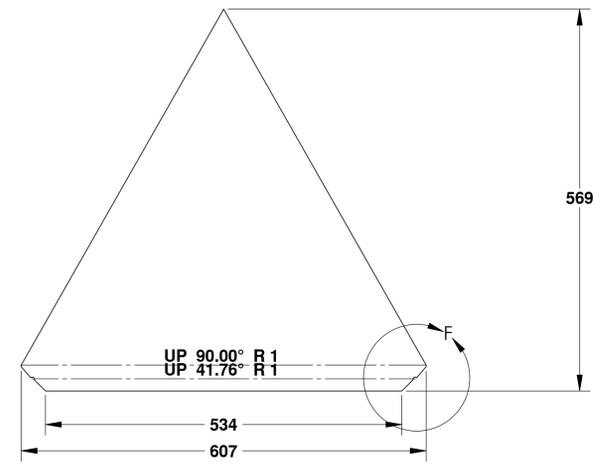
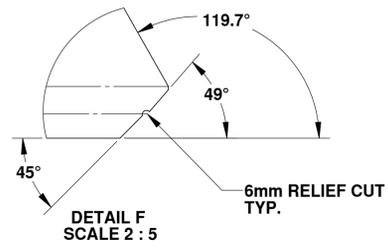
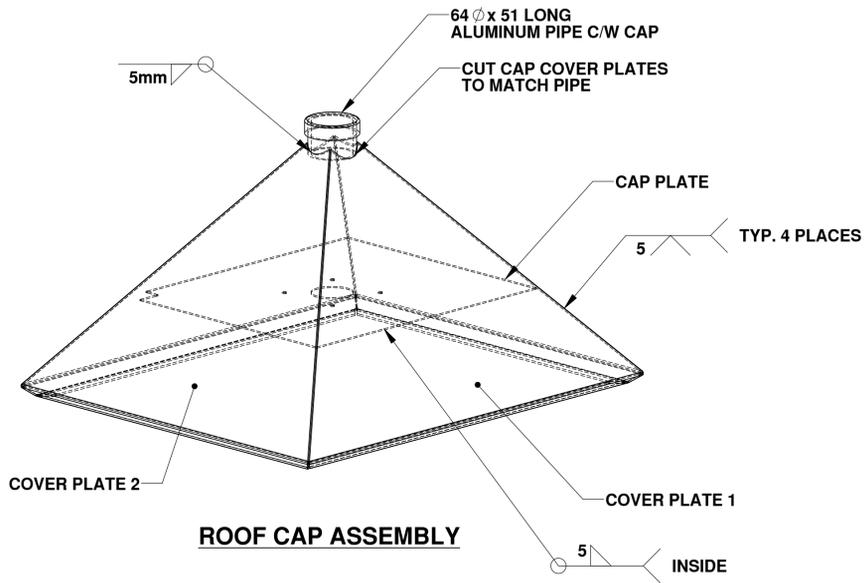
ALUMINUM KIOSK

SIZE DWG. NO. REV
D AK15-003
SCALE: 1:10 WEIGHT: SHEET 1 OF 1

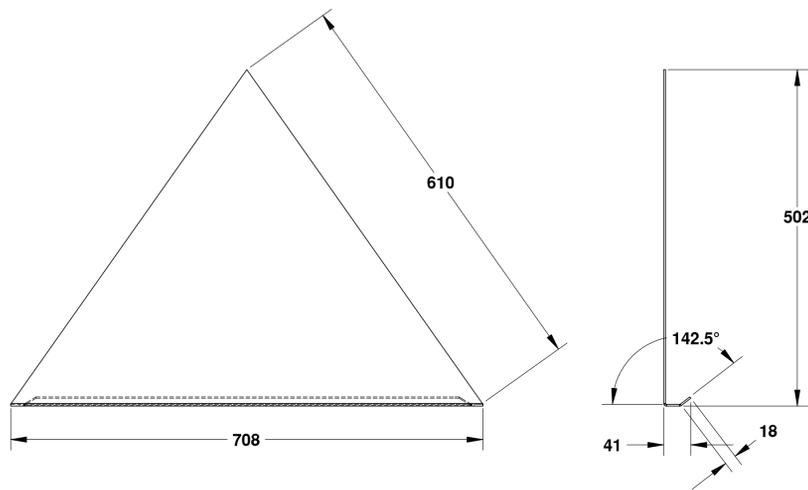
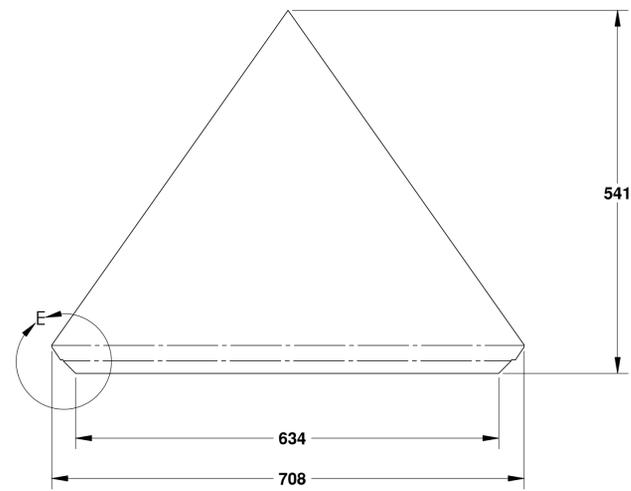
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DIMENSIONS ARE IN INCHES	TOLERANCES:	DRAWN	W/SL
FRACTIONAL: ±	ANGULAR: MATCH BEND ±	CHECKED	EY
TWO PLACE DECIMAL: ±	THREE PLACE DECIMAL: ±	ENG APPR.	M/B
		MFG APPR.	
INTERPRET GEOMETRIC TOLERANCING PER:		Q.A.	
MATERIAL: --		COMMENTS:	
FINISH: --			
NEXT ASSY:	USED ON:		
APPLICATION:	DO NOT SCALE DRAWING		

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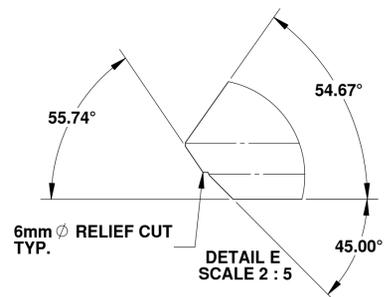
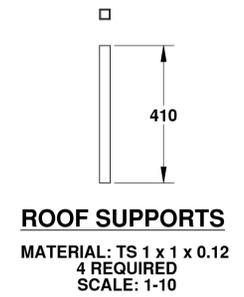
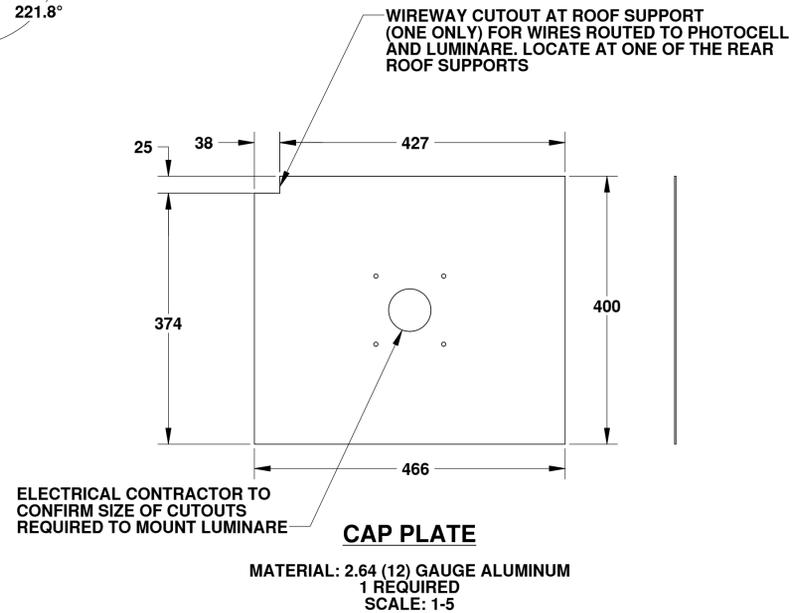




COVER PLATE - 2
 MATERIAL: 3.25 (10) GAUGE ALUMINUM
 2 REQUIRED
 SCALE: 1-5



COVER PLATE-1
 MATERIAL: 3.25 (10) GAUGE ALUMINUM
 2 REQUIRED
 SCALE: 1-5

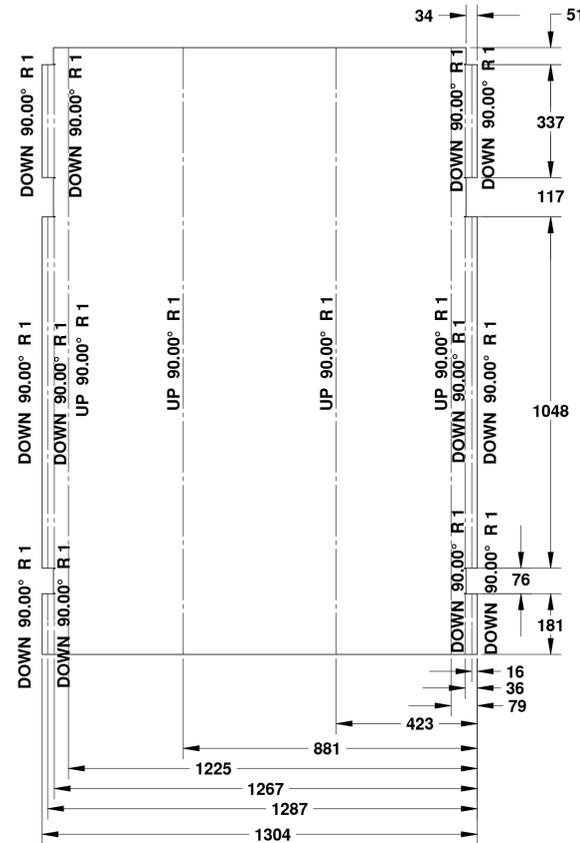


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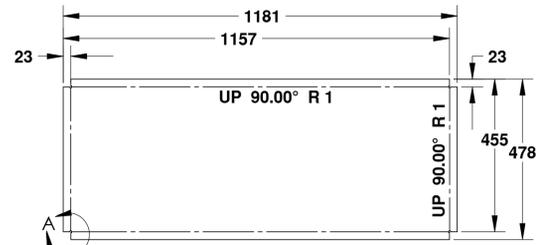
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TOLERANCES:	CHECKED		EY
FRACTIONAL: ±	ENG APPR.		MB
ANGULAR: MATCH BEND ±	MFG APPR.		
TWO PLACE DECIMAL: ±			
THREE PLACE DECIMAL: ±			
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
MATERIAL: --	COMMENTS:		
FINISH: --			
NEXT ASSY:			
USED ON:			
APPLICATION:	DO NOT SCALE DRAWING		

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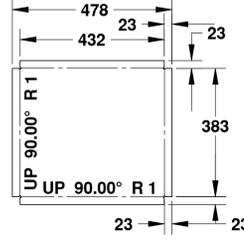
TITLE: ALUMINUM KIOSK		
SIZE: D	DWG. NO.: AK15-004	REV
SCALE: 1:10	WEIGHT:	SHEET 1 OF 1



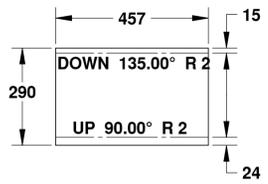
BOX SECTION
SCALE: 1-10



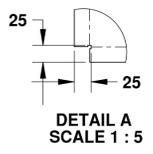
LOWER DOOR
SCALE: 1-10



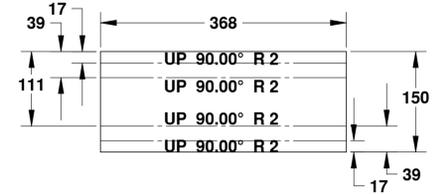
UPPER DOOR
SCALE: 1-10



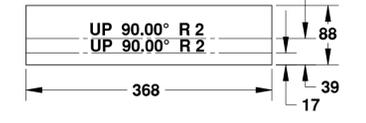
DIVIDER PLATE
SCALE: 1-10



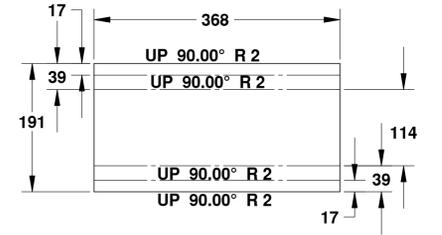
DETAIL A
SCALE 1 : 5



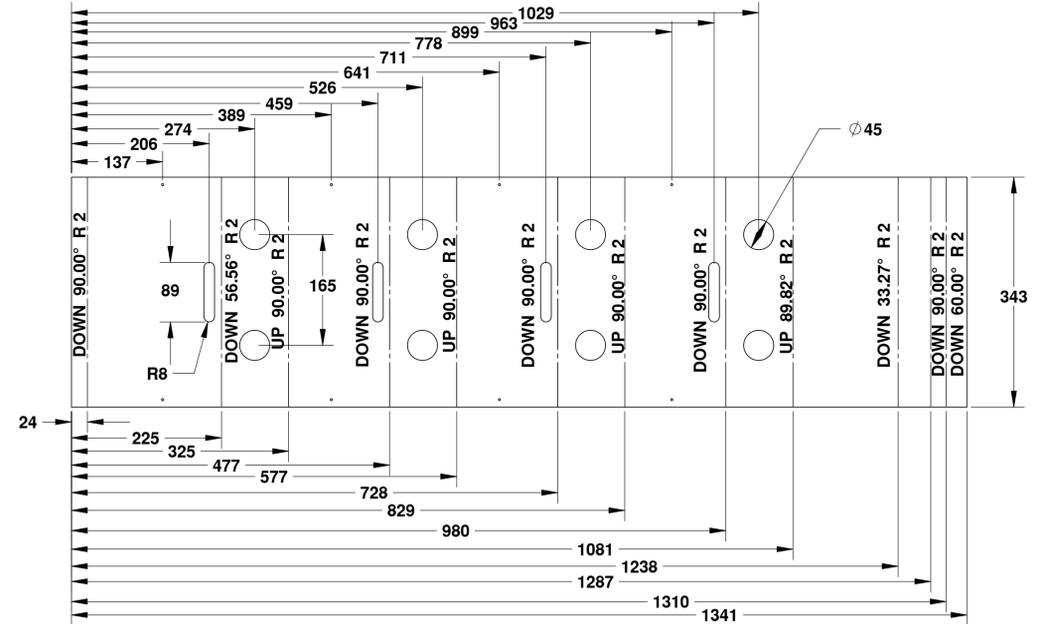
LOWER ALUMINUM STRIP
SCALE: 1-5



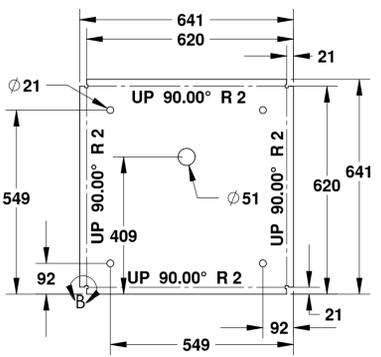
UPPER ALUMINUM STRIP
SCALE: 1-5



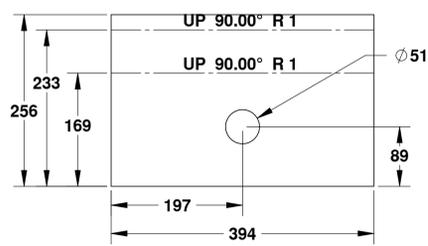
MID ALUMINUM STRIP
SCALE: 1-5



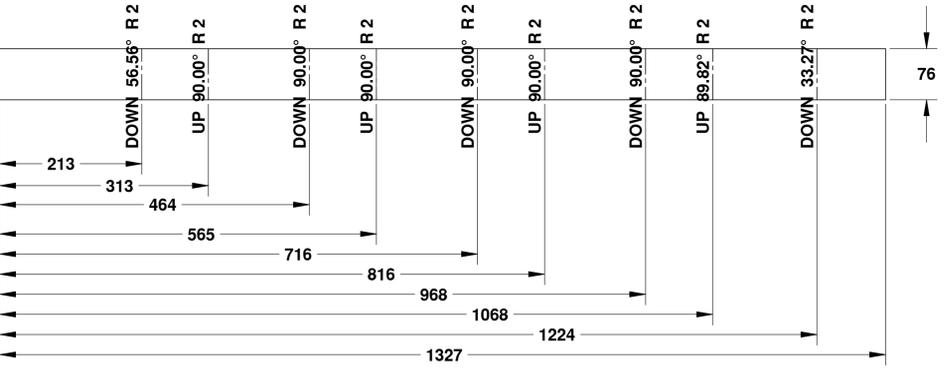
HINGE PLATE
SCALE: 1-5



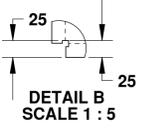
BASE PLATE
SCALE: 1-10



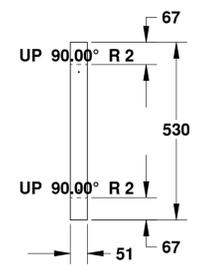
MOUNTING PLATE
SCALE: 1-5



BACKING PLATE
SCALE: 1-5



DETAIL B
SCALE 1 : 5



BREAKER BOX MOUNTS
SCALE: 1-10

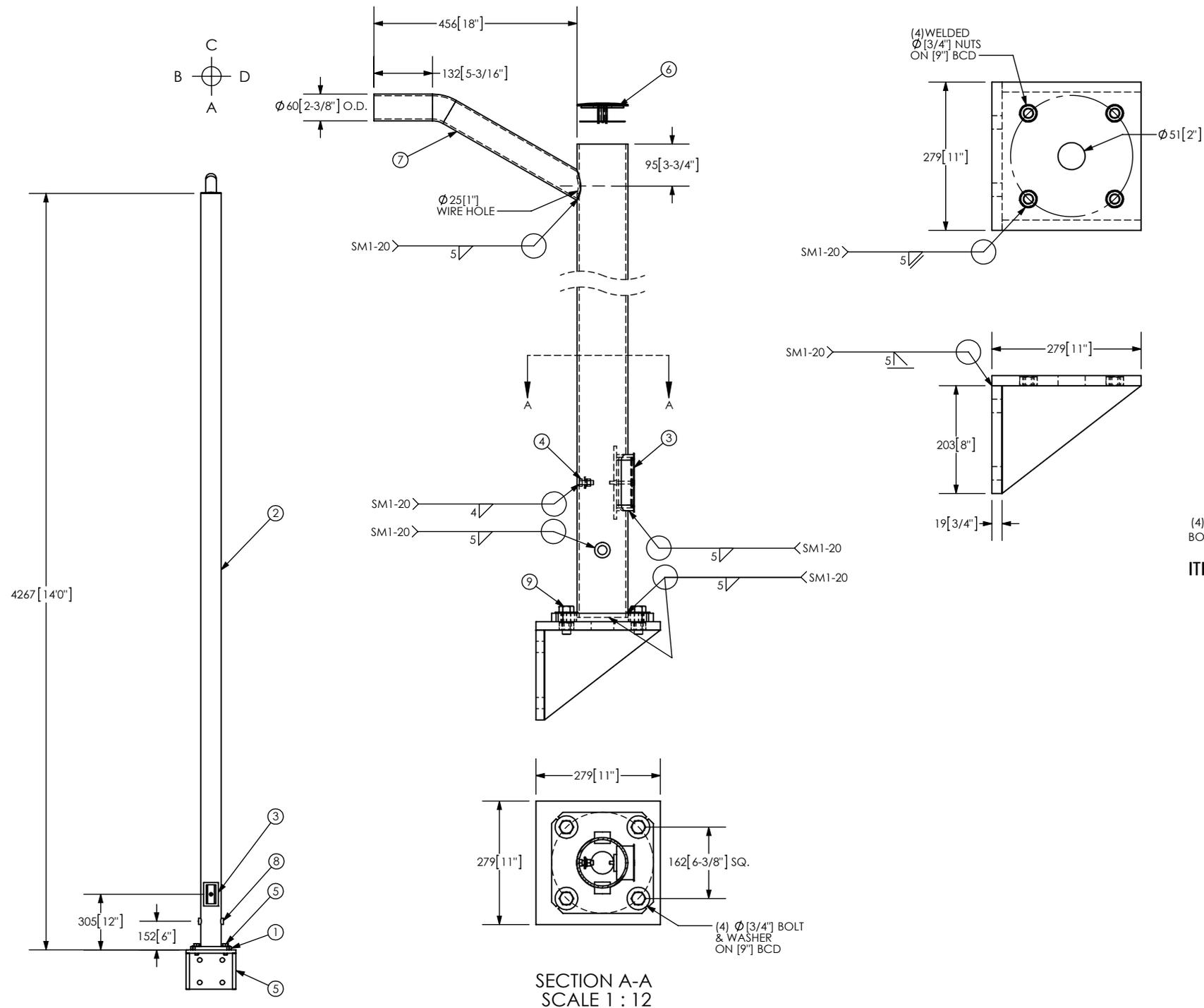
 Fisheries & Oceans / Pêches et Océans
Small Craft Harbours Branch

UNLESS OTHERWISE SPECIFIED:		DATE	NAME
DIMENSIONS ARE IN INCHES	DRAWN		WSL
TOLERANCES:	CHECKED		EY
FRACTIONAL: 1/16	ENG APPR.		MB
ANGULAR: MATCH BEND ±	MFG APPR.		
TWO PLACE DECIMAL ±			
THREE PLACE DECIMAL ±			
INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:		
MATERIAL:	O.A.		
FINISH:	---		
NEXT ASSY:	USED ON:	FINISH:	
APPLICATION:	DO NOT SCALE DRAWING		

TITLE: ALUMINUM KIOSK		
SIZE: D	DWG. NO.: AK15-005	REV:
SCALE: 1:10	WEIGHT:	SHEET 1 OF 1

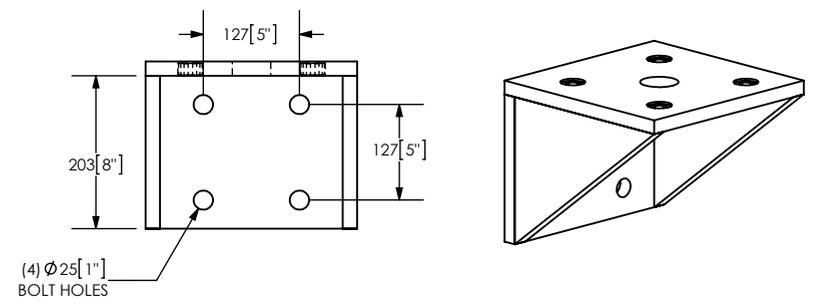
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ITEM	QTY.	DESCRIPTION	MATERIAL
1	1	SQ. BASE PLATE [9"] x [3/4"] PL.	44W
2	1	STD. STEEL [4"] PIPE, [4.5"] O.D. X [0.188"] WALL, [14'] LG.	50W
3	1	HANDHOLE ASS'Y [5"] X [3"] X [1/4"] X [1-3/4"] LG. C/W COVER	44W
4	1	GROUNDSTUD [3/8"] NC X [1"] LG. C/W NUT & WASHER	PLATED
5	1	BRACKET [3/4"] PL. c/w (4) Ø [3/4"] NUT WELDED	44W
6	1	ROUND POLE CAP Ø [4-1/2"]	PP
7	1	Ø [2-3/8"] O.D. FIXTURE ARM, [0.188"] WALL, [18"] LG., LOC. "C"	50W
8	2	#3000 [3/4"] HALF COUPLING	STEEL
9	4	Ø [3/4"] X [2"] LG. BOLT	GR.5

NOTE : i POLE FINISH HDG.
 ii (3) CE45R14 , (1) CE45R20.



ITEM 5 - SIDE-MOUNT BRACKET DETAIL
(FOR 14' POLES)

NOTE: ALL BRACKETS, BOLTS & FASTENERS TO BE MARINE GRADE HOT DIPPED GALVANISED

THIS DRAWING IS PROPERTY OF CECO POLES & STRUCTURES INC.		
WORK ORDER NO. *	PURCHASE ORDER NO. *	PAGE 1/1
 POLES & STRUCTURES INC. 5110-56th AVENUE S.E. CALGARY, ALBERTA T: 403 279 0530 F: 403 279 0531 EMAIL: info@cecopoles.ca		
DRAWN BY BM	TITLE STEEL STD. ROUND POLE, 14 FT.	
DATE APR. 08/2016		
APPR. BY	CUSTOMER / JOB HARBOUR WALKWAY/LSW LIGHTING/ RELUMEN ENGINEERING	
SCALE NTS	REV. NO. B	DWG. NO. CE45R14
QUANTITY 4		