



**SMALL CRAFT HARBOURS**

**KITAMAAT HARBOUR**

DRAWING LIST					
DRAWING NO.	DRAWING TITLE	REVISION			
		A	B	C	D
KM-FR-001	GENERAL ARRANGEMENT				
KM-FR-002	EXISTING FACILITIES AND DEMOLITION				
KM-FR-003	NEW FLOAT AND PILE PLAN				
KM-FR-004	PEDESTRIAN APPROACH MODIFICATION - DEMOLITION PLAN				
KM-FR-005	PEDESTRIAN APPROACH MODIFICATION - GANGWAY CONNECTION				
KM-FR-006	PILE MOORING BRACKET AND PILE DRIVING DETAIL				
KM-FR-007	2.743m WIDE STANDARD - FLOAT MODULE ASSEMBLY				
KM-FR-008	2.743m WIDE STANDARD ENDS - FLOAT MODULE ASSEMBLY				
KM-FR-009	FLOAT CONNECTION DETAILS AND WALKWAY TREAD DETAIL				
KM-FR-010	PILE MOORING BRACKET DETAILS				
KM-FR-011	ANODE INSTALLATION INSTRUCTIONS				
KM-FR-016	STANDARD GANGWAY - GENERAL ARRANGEMENT				
KM-FR-017	STANDARD GANGWAY - UPPER TRANSITION				
KM-EL-1 to KM-EL-8	ELECTRICAL DRAWINGS				
142220-1 to 142220-5	FIRE PROTECTION				

Revision/Revision	Description/Description	Date/Date

Client/client  
**Fisheries & Oceans Canada**  
**Small Craft Harbours Branch**  
**Pacific Division**  
 200 - 401 Burrard Street  
 Vancouver, Canada, V6C 3S4

Project title/Titre du projet  
**KITAMAAT HARBOUR**  
**FLOAT RECONSTRUCTION**

Approved by/Approuvé par  
 A.C.

Designed by/Concept par  
 S.L.

Drawn by/Dessiné par  
 WSL

PWGSC Project Manager/Administrateur de Projets TPSGC

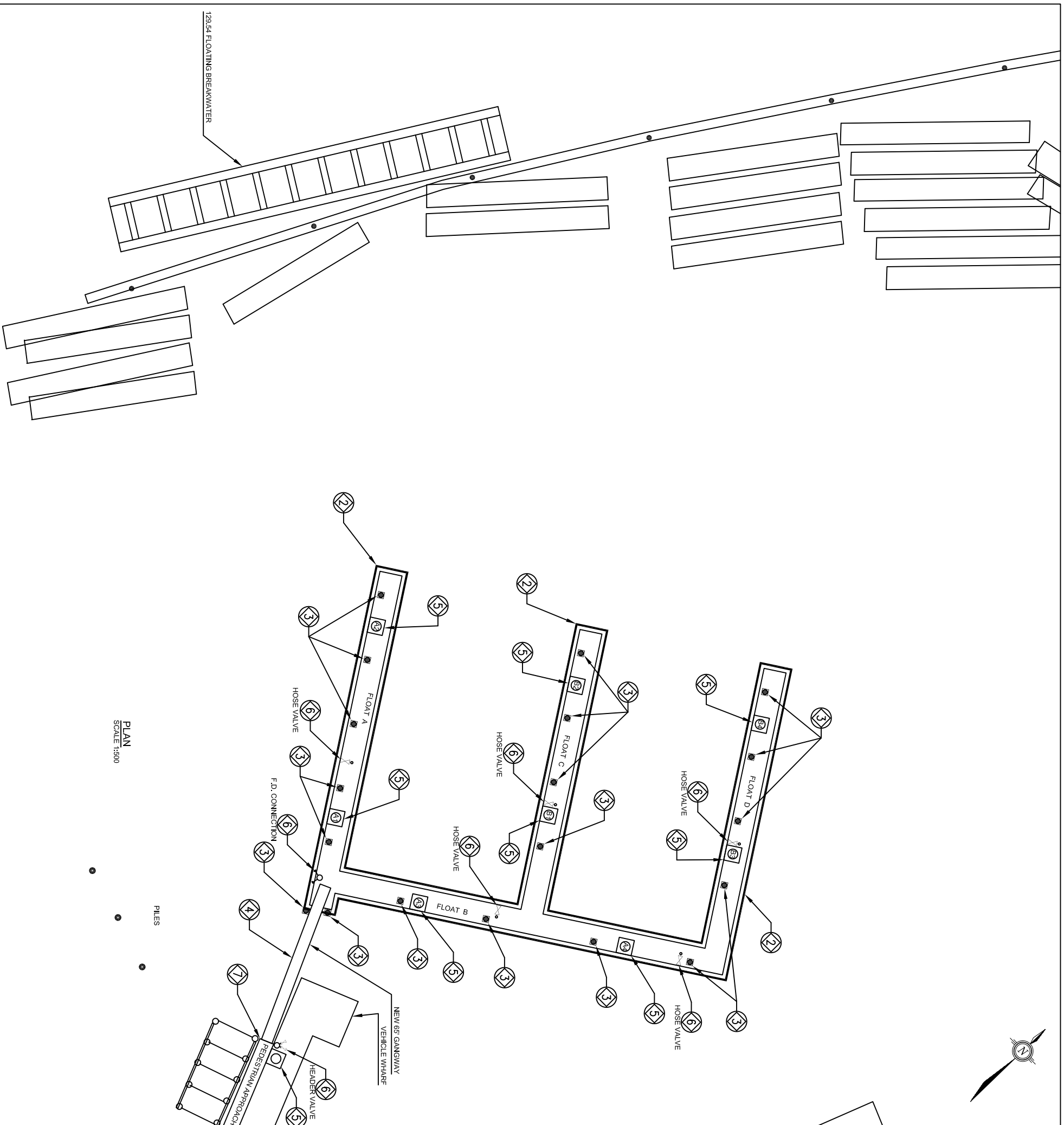
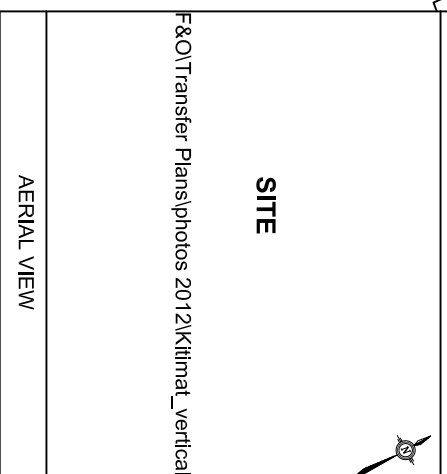
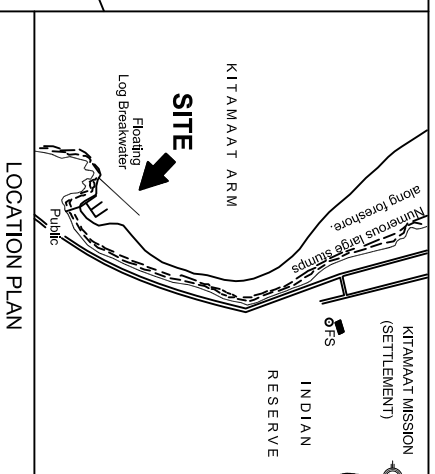
PWGSC, Architectural and Engineering Resources Manager/  
 Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client

Drawing title/Titre du dessin  
**DRAWING LIST**

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SITE

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**Pacific Division**

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W.S.L.

PWGC Project Manager/Administrateur du Projet TS9C

PWGC Architectural and Engineering Resources Manager/  
Ressources Architecturales et de Directeur d'ingénierie TS9C

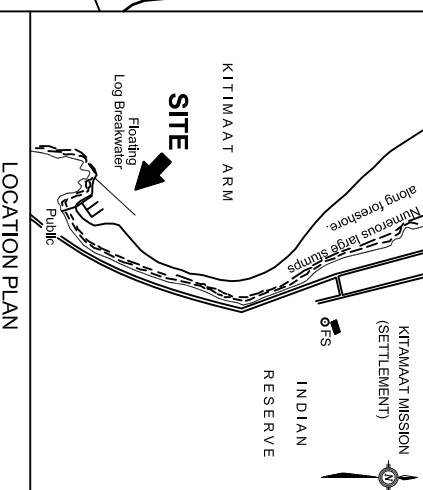
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**GENERAL ARRANGEMENT**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Revision no.
KM-FR	001	OF





LOCATION PLAN

**SITE**

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AERIAL VIEW

**LEGEND**

- ② REMOVE EXISTING FLOATS
- ③ REMOVE EXISTING PILE DOLPHINS
- ④ REMOVE EXISTING GANGWAY
- ⑤ REMOVE EXISTING ELECTRICAL SYSTEM
- ⑦ REMOVE SECTION OF PEDESTRIAN APPROACH

**KITAMAAT HARBOUR  
FLOAT RECONSTRUCTION**

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WSL

PWGC Project Manager/Administrateur de Projets TRSQC

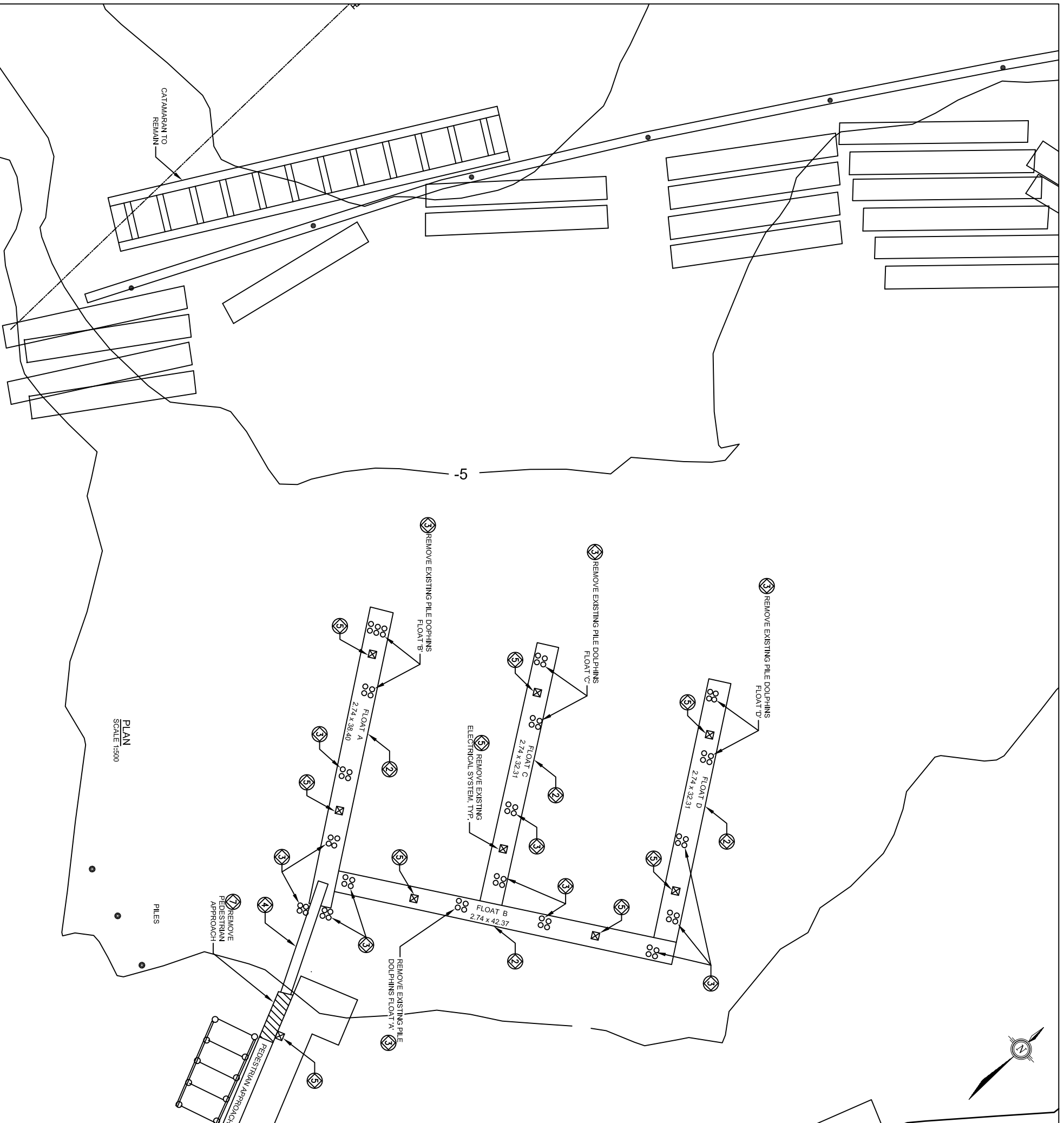
PWGC Architectural and Engineering Resources Manager/  
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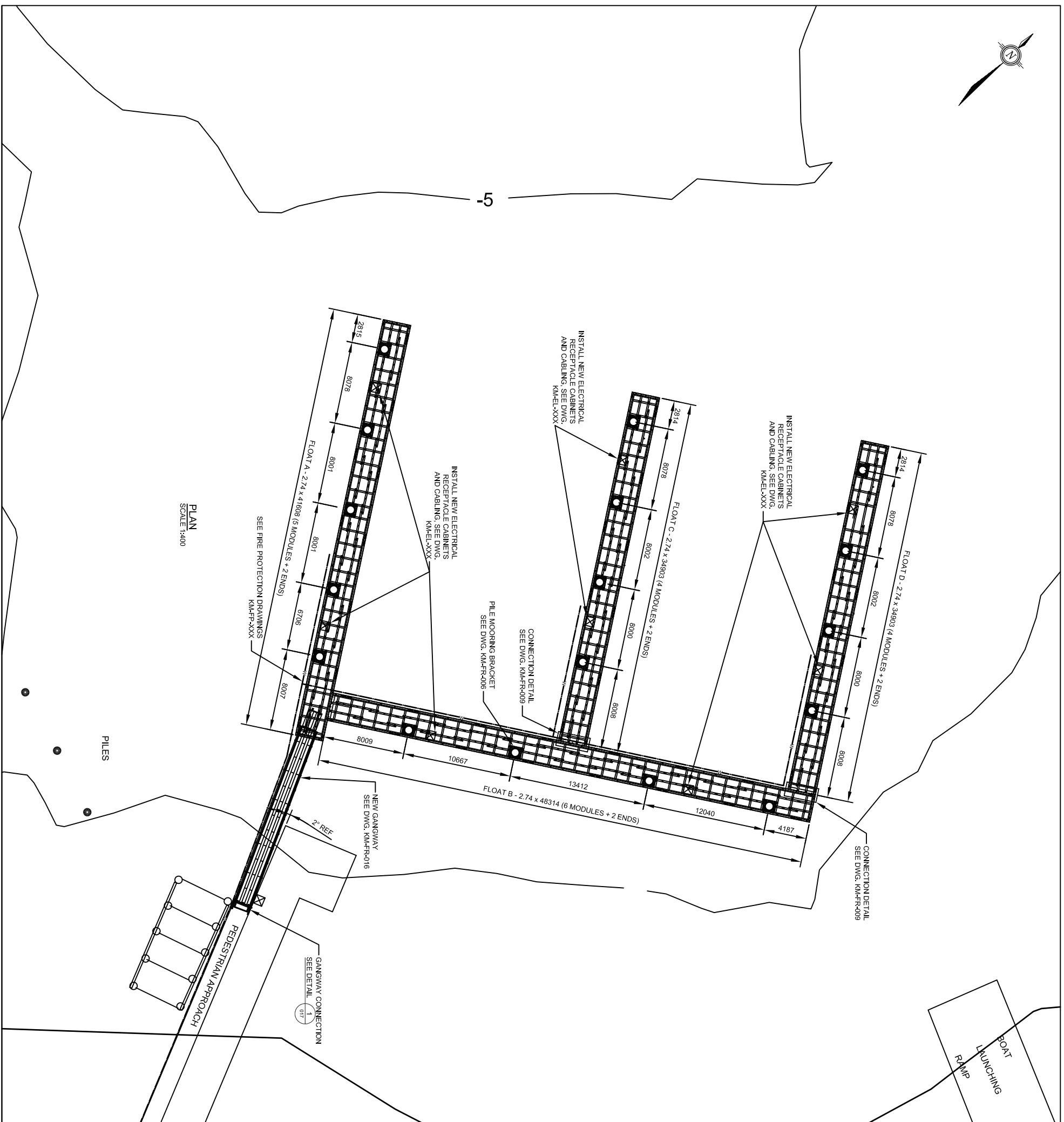
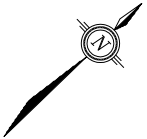
**EXISTING FACILITIES AND DEMOLITION**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Revision no.
KM-FR	002	OF



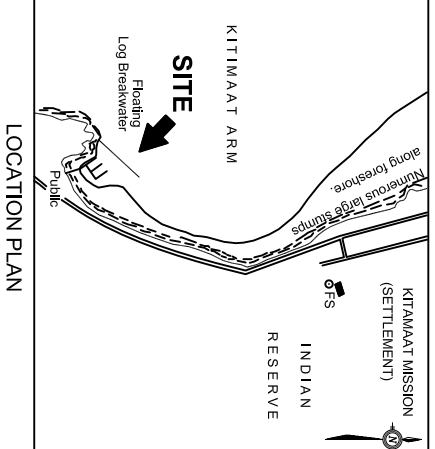
PLAN  
SCALE: 1:500





PLAN  
SCALE 1:400

PILES



SITE

AERIAL VIEW

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Revision / Client / client	Description / Description	Date / Date

Public Works and  
Government Services  
Canada

Travaux publics et  
Services gouvernementaux  
Canada

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

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**Small Craft Harbours Branch**  
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PWGC Architectural and Engineering Resources Manager/  
Ressources Architecturales et de Directeur d'ingénierie TS9C

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Drawing title/ Titre du dessin

**NEW FLOAT AND PILE PLAN**

Project No./No. du projet

**KM-FR**

Sheet/Feuille

**003**

OF

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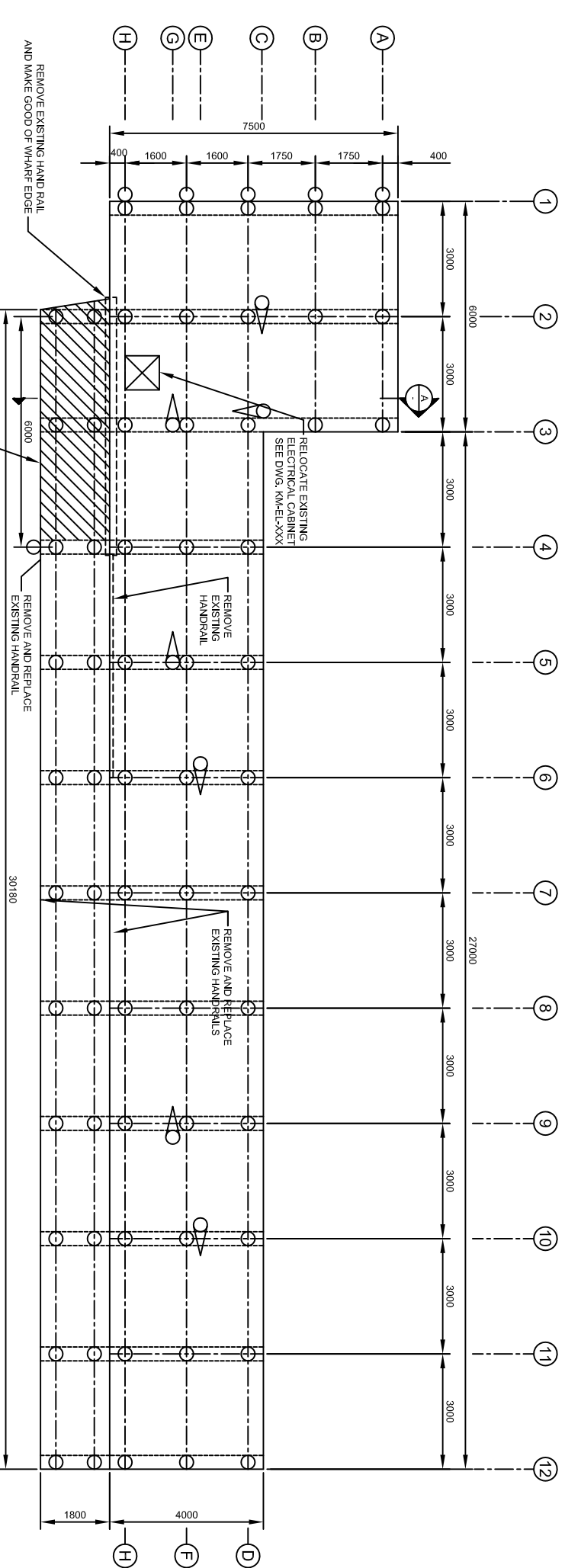
PWGC Project Manager/Administrateur de Projets TRSQC

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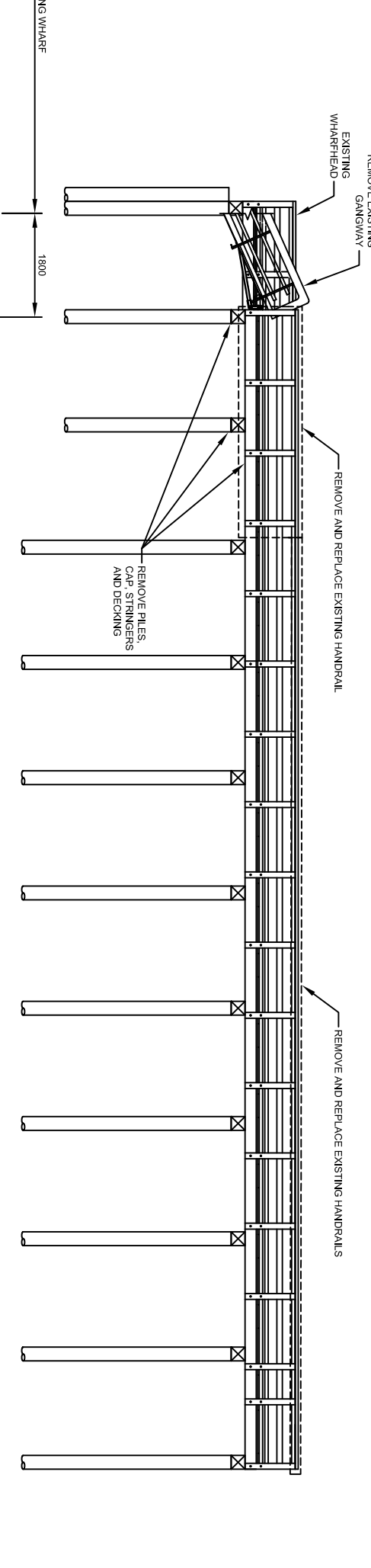
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Drawing title/Titre du dessin  
**PEDESTRIAN APPROACH MODIFICATION  
DEMOLITION PLAN**

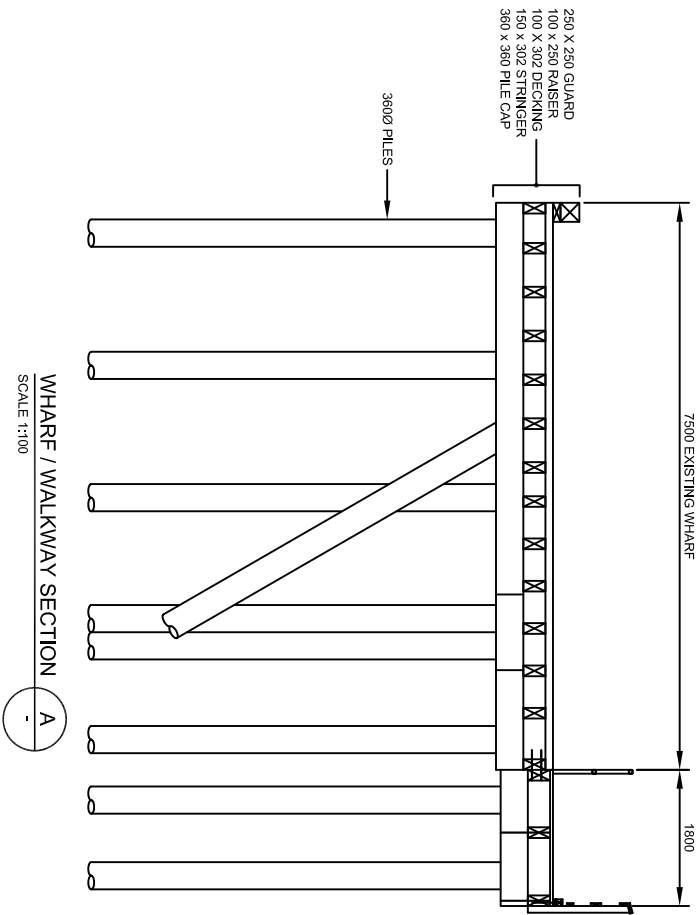
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**EXISTING WHARF - PLAN VIEW 1**  
SCALE 1:150



**EXISTING WHARF - PROFILE VIEW 2**  
SCALE 1:150



**WHARF / WALKWAY SECTION A**  
SCALE 1:100



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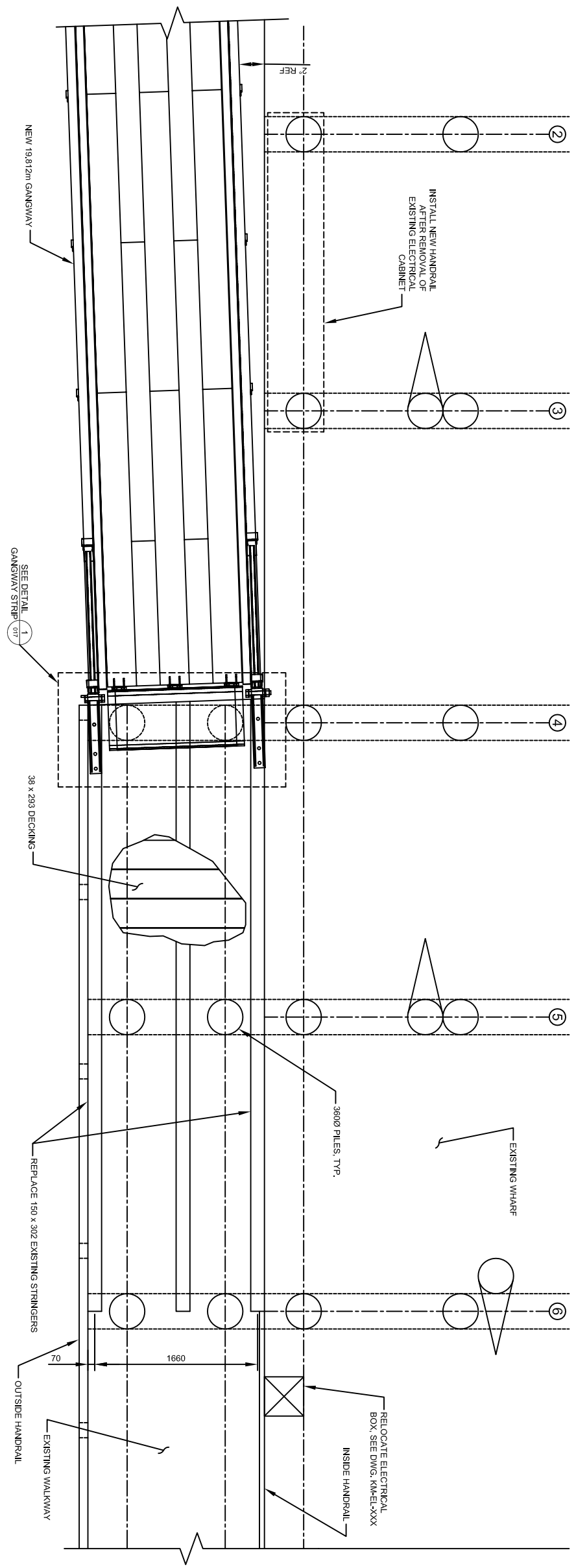
**KITAMAAT HARBOUR  
FLOAT RECONSTRUCTION**

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Designed by/Concepté par  
S.L.  
Drawn by/Dessiné par  
WSL

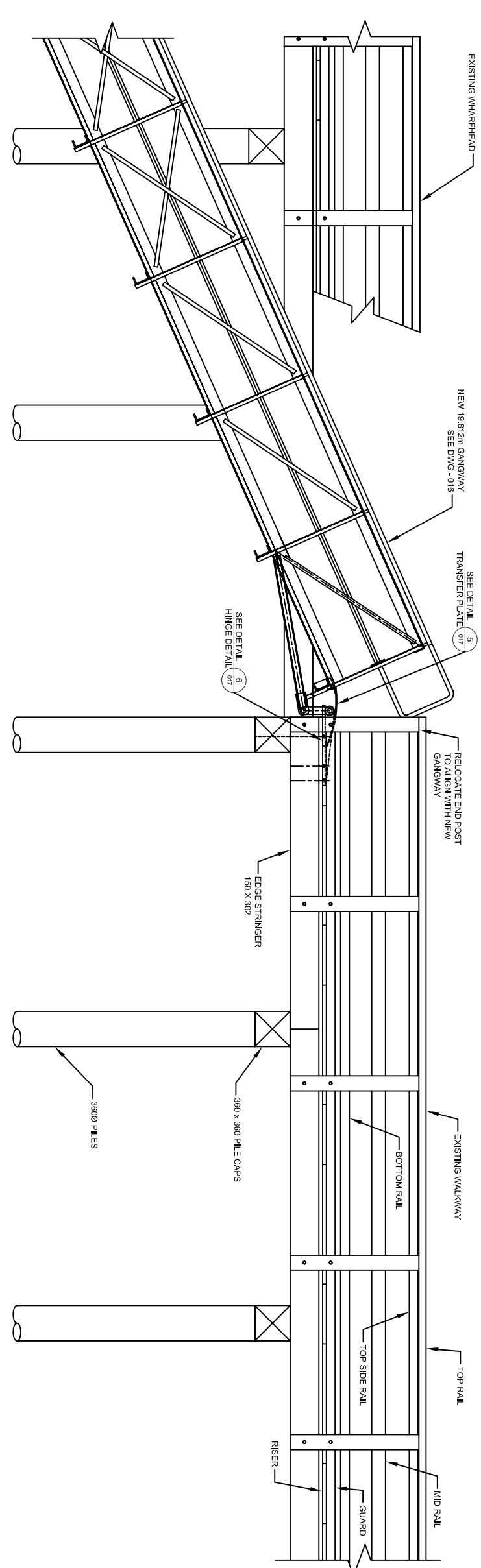
PWGC Project Manager/Administrateur de Projets TFSGC  
PWGC Architectural and Engineering Resources Manager/  
Ressources Architecturales et de Directeur d'ingénierie TFSGC

Client/client  
Drawing title/Titre du dessin  
**PEDESTRIAN APPROACH MODIFICATION  
GANGWAY CONNECTION**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Revision no.
KM-FR	005	OF



**PROPOSED WHARF - PLAN VIEW**  
SCALE: 1:30



**PROPOSED WHARF - PROFILE VIEW**  
SCALE: 1:30



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**Drawn by/Dessiné par**  
W.S.L.

**PMGC Project Manager/Administrateur de Projets Tpsoc**

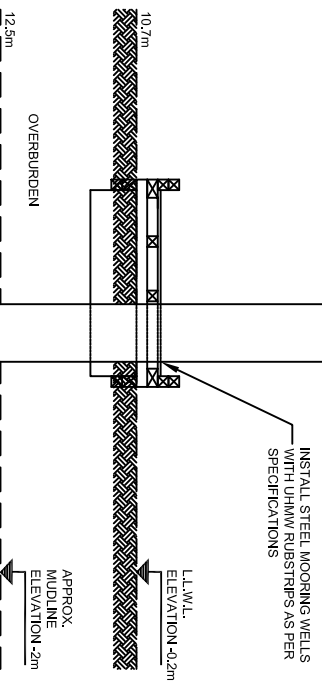
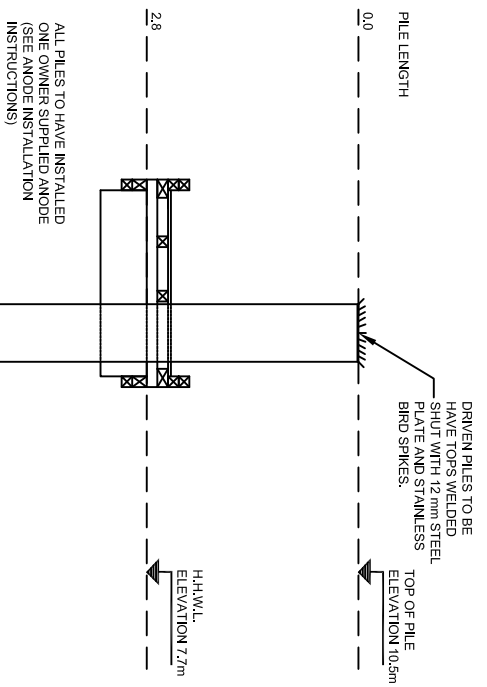
**PMGC Architectural and Engineering Resource Manager/  
Ressources Architecturales et de Génie Civil Tpsoc**

**Client/client**

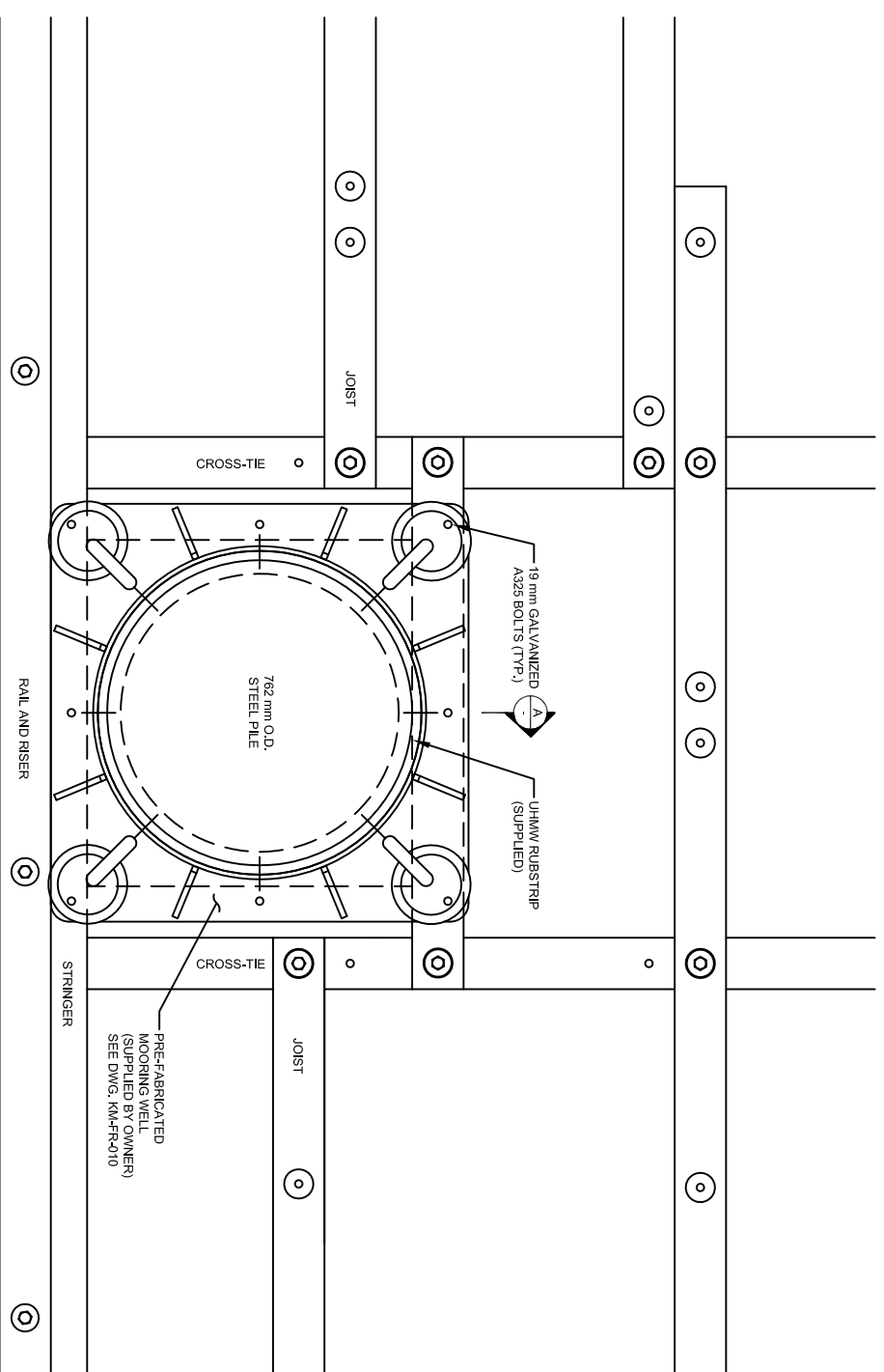
**Drawing Title/Titre du dessin**

**PILE MOORING BRACKET  
AND PILE DRIVING DETAIL**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
KM-FR	006	
	OF	



**SECTION A**  
SCALE 1:100



**MOORING WELL DETAIL (TYPICAL)**  
SCALE 1:30

TABLE: ROCK PENETRATION FOR 702 x 12.7 PIPE PILES	REQUIRED ADDITIONAL PENETRATION INTO BEDROCK
9 m OR MORE	NOT REQUIRED
8 m	0.4 m
7 m	0.8 m
6 m	1.2m
5 m	1.6 m
4 m	2.0 m
3 m OR LESS	2.4 m

- DRAWING NOTES**
- NOT AN AS-BUILT DRAWING, PRELIMINARY FOR DISCUSSION PURPOSES ONLY.
  - ALL DIMENSIONS ARE IN METRES.
  - ELEVATIONS ARE IN METRES, CHART DATUM.
  - FINAL PILE POSITIONS MAY VARY DEPENDING ON ACTUAL LOCATIONS OF CROSS-TIES, JOISTS, OTHER FLOAT COMPONENTS, AND DRIVING CONDITIONS.
  - CONTRACTOR TO ENSURE THAT PILES COME TO BEAR EVENLY AGAINST ALL MOORING WELLS.



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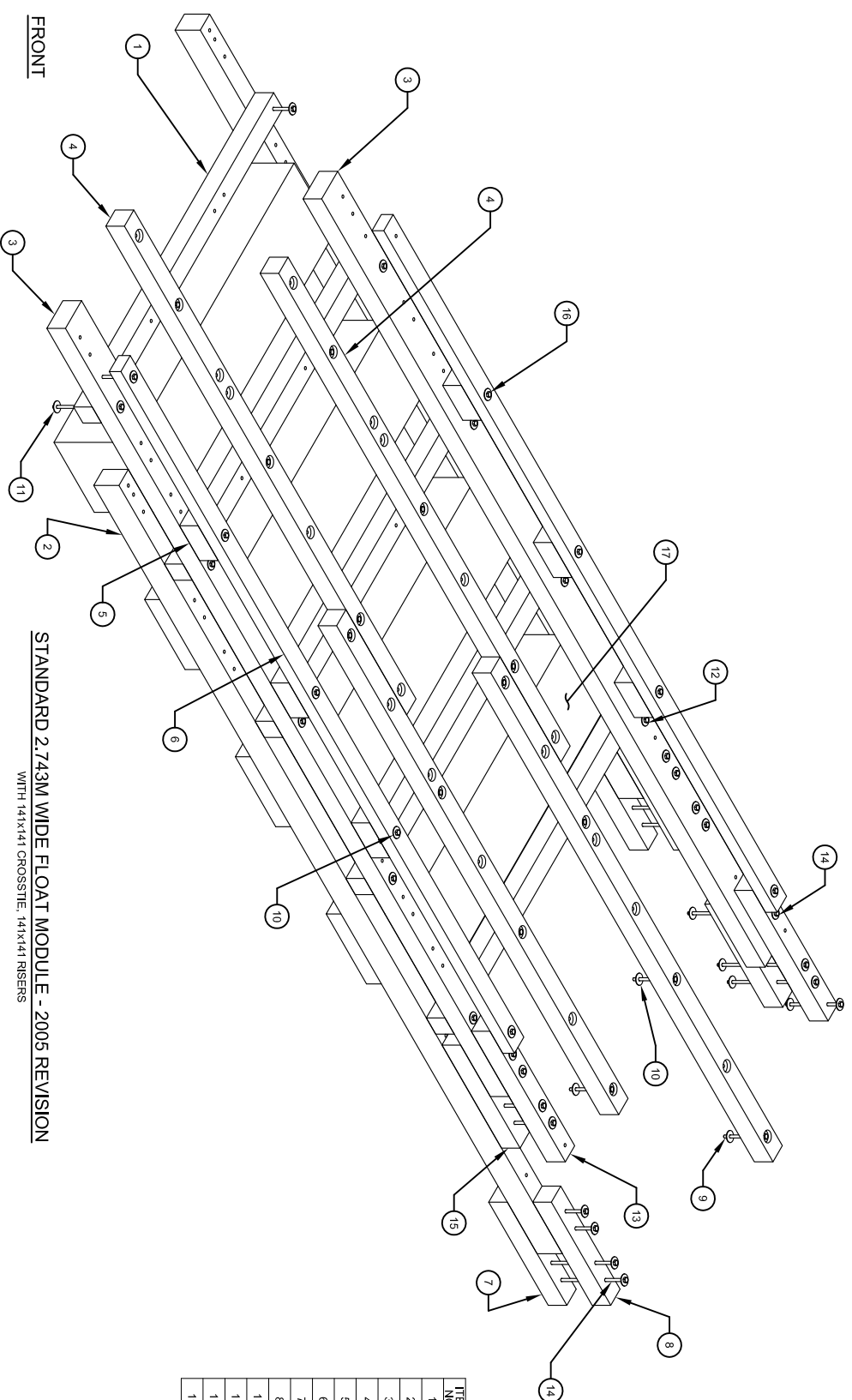
Drawing title/Titre du dessin

**2.743m WIDE STANDARD  
FLOAT MODULE ASSEMBLY**

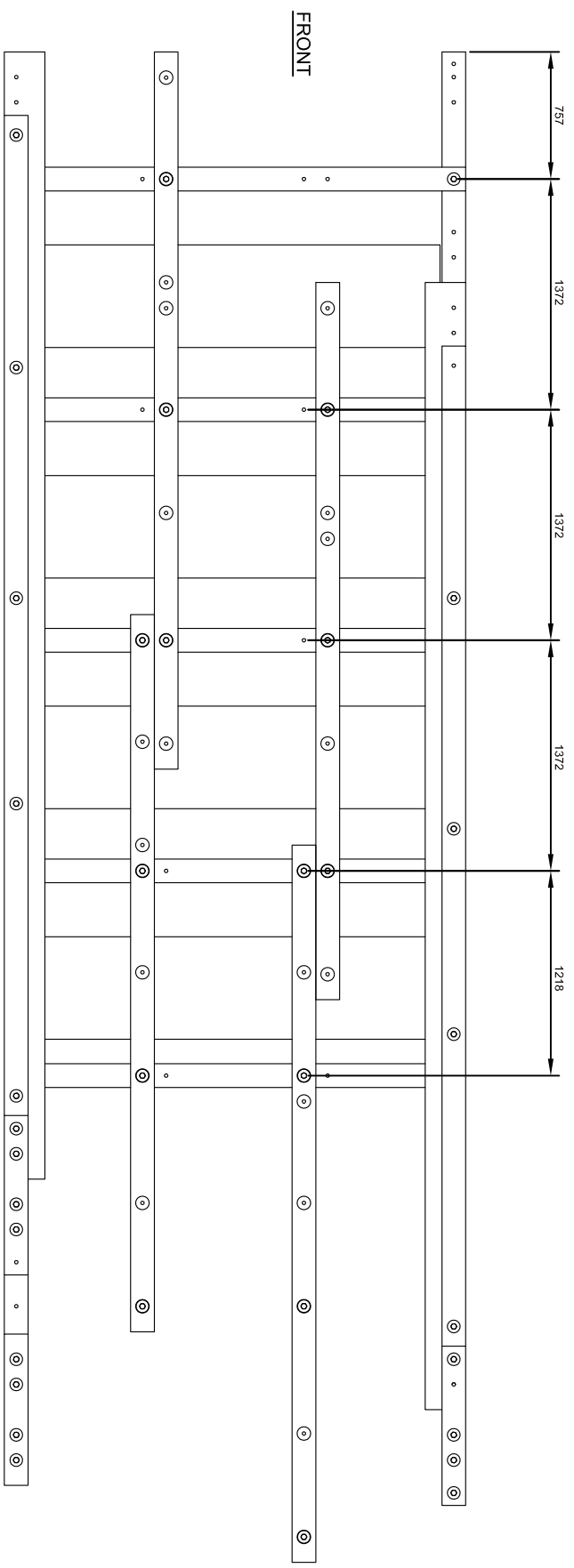
Project No./No. du projet

**KM-FR 007**

Revision no./La Revision no. OF



**FRONT**  
**STANDARD 2.743M WIDE FLOAT MODULE - 2005 REVISION**  
WITH 14x14x141 RISERS



**FRONT**

ITEM NO.	QTY.	TIMBER MEMBER	DESCRIPTION	MATERIAL
1	5	CROSS TIES	(6x6) 141 X 141 X 2743 LG	14 LB CREOSOTE TREATMENT #1 BTR FIR
2	2	FLANGE	(6x6) 141 X 191 X 6706 LG	14 LB CREOSOTE TREATMENT #1 BTR FIR
3	2	STRINGER	(6x10) 141 X 241 X 6706 LG	14 LB CREOSOTE TREATMENT #1 BTR FIR
4	4	JOISTS	(6x6) 141 X 141 X 4267 LG	14 LB CREOSOTE TREATMENT #1 BTR FIR
5	6	RISER	(6x6) 141 X 141 X 305 LG	ACZA
6	2	RAIL	(4x6) 89 X 141 X 5950 LG	ACZA
7	2	LOWER FLANGE SPLICE	(6x6) 141 X 141 X 900 LG	14 LB CREOSOTE TREATMENT #1 BTR FIR
8	2	UPPER FLANGE SPLICE	(6x6) 141 X 141 X 900 LG	14 LB CREOSOTE TREATMENT #1 BTR FIR
13	2	UPPER STRINGER SPLICE	(6x6) 141 X 141 X 1140 LG	ACZA
15	2	LOWER STRINGER SPLICE	(6x6) 141 X 141 X 900 LG.	14 LB CREOSOTE TREATMENT #1 BTR FIR
17	5	FOAM BUOYANCY BILLET	610 X 597 X 2438 LG.	
19	28	DECK PLANKS	(12x2) 305 X 38 X 2440 LG	ACZA

**TIMBER MEMBERS**

ITEM NO.	QTY.	HARDWARE
9	14	HEX BOLT 19 x 300mm
10	98	WASHERS 19 DIA.
11	49	HEX NUT 19mm DIA.
12	10	HEX BOLT 19 x 500mm
14	15	HEX BOLT 19 x 600mm
16	10	HEX BOLT 19 x 400mm
20	192	100mm GALVANIZED SPIRAL NAILS

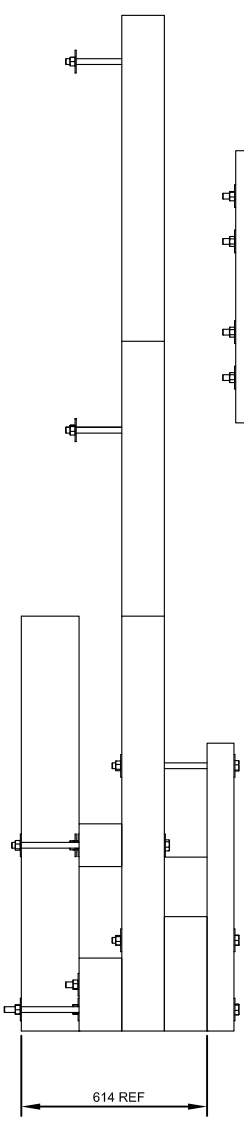
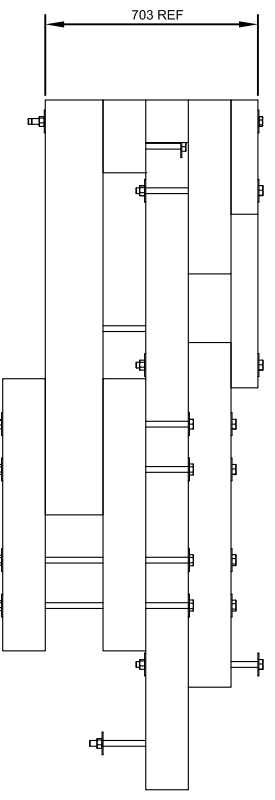
**HARDWARE REQUIREMENTS**

**PLAN VIEW**

SCALE 1:40



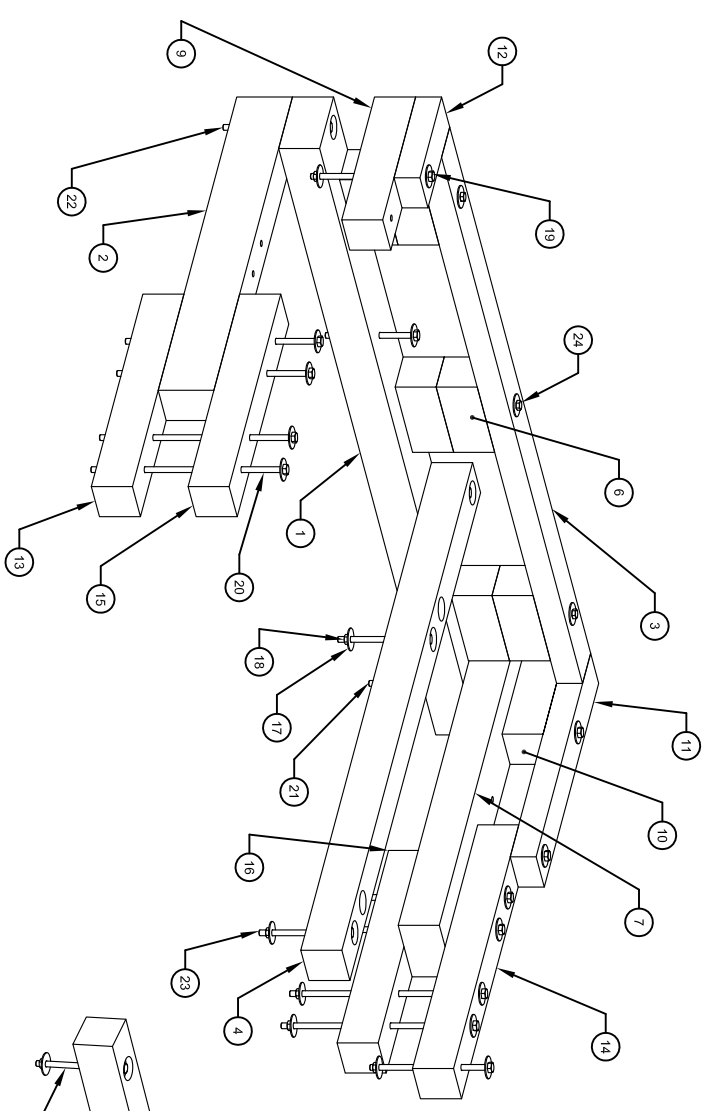




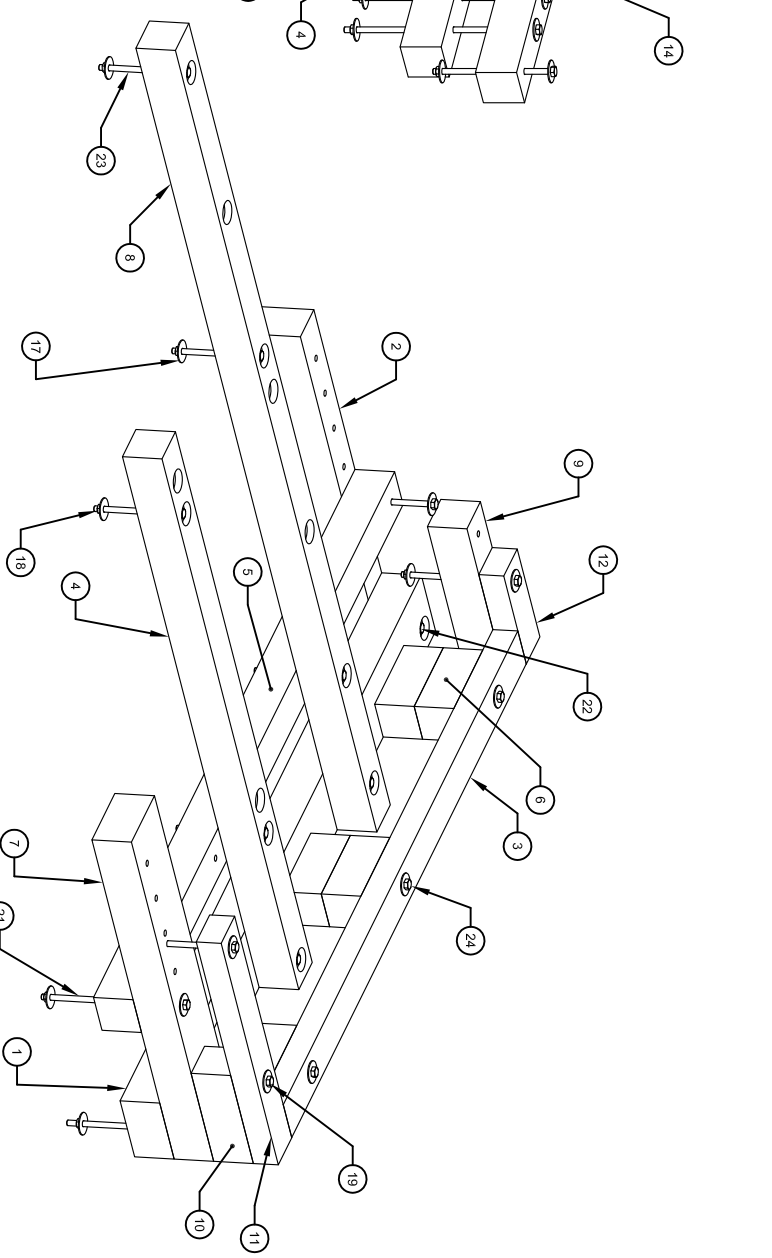
ITEM NO.	QTY.	TIMBER MEMBER	DESCRIPTION	MATERIAL
1	2	END CROSSSTIE	(6x10) 141 x 241 x 2743 LG.	14 LB. CREOSOTE TREATMENT #1 BTR-FIR
2	2	FLANGE END	(6x8) 141 x 191 x 1372 LG.	14 LB. CREOSOTE TREATMENT #1 BTR-FIR
3	2	END RAIL	(4x6) 89 x 141 x 2461 LG.	ACZA
4	2	JOIST END 'B'	(6x6) 141 x 141 x 2281 LG.	14 LB. CREOSOTE TREATMENT #1 BTR-FIR
5	1	STANDARD CROSSSTIE	(6x6) 141 x 141 x 2743 LG.	14 LB. CREOSOTE TREATMENT #1 BTR-FIR
6	12	END BLOCK	(6x6) 141 x 141 x 305 LG.	ACZA
7	2	STRINGER END	(6x10) 141 x 241 x 1372 LG.	14 LB. CREOSOTE TREATMENT #1 BTR-FIR
8	1	MODIFIED JOIST	(6x6) 141 x 141 x 3359 LG.	14 LB. CREOSOTE TREATMENT #1 BTR-FIR
9	2	SPACER END 'B'	(6x6) 141 x 141 x 575 LG.	ACZA
10	2	SPACER END	(6x6) 141 x 141 x 378 LG.	ACZA
11	2	RAIL END	(4x6) 89 x 141 x 952 LG.	ACZA
12	2	RAIL END 'B'	(4x6) 89 x 141 x 378 LG.	ACZA
13	1	LOWER STRINGER SPLICE	(6x6) 141 x 141 x 900 LG.	14 LB. CREOSOTE TREATMENT #1 BTR-FIR
14	1	UPPER STRINGER SPLICE	(6x6) 141 x 141 x 1140 LG.	ACZA
15	1	UPPER FLANGE SPLICE	(6x6) 141 x 141 x 900 LG.	14 LB. CREOSOTE TREATMENT #1 BTR-FIR
16	1	LOWER STRINGER SPLICE	(6x6) 141 x 141 x 900 LG.	14 LB. CREOSOTE TREATMENT #1 BTR-FIR

**HARDWARE REQUIREMENTS**

ITEM NO.	QTY.	DESCRIPTION
17	76	WASHER 19mm DIA.
18	38	HEX NUT 19mm DIA.
19	7	HEX BOLT 19 x 406mm
20	8	HEX BOLT 19 x 660mm
21	4	HEX BOLT 19 x 506mm
22	2	HEX BOLT 19 x 356mm
23	11	HEX BOLT 19 x 300mm
24	6	HEX BOLT 19 x 557mm



2.743m WIDE STANDARD BACK END MODULE



2.743m WIDE STANDARD FRONT END MODULE

2.743m WIDE END FLOAT MODULES  
SCALE 1:25

**DO NOT SCALE DRAWINGS**

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**Pacific Division**  
200 - 401 Burrard Street  
Vancouver, Canada, V6C 3S4

**KITAMAAT HARBOUR**  
**FLOAT RECONSTRUCTION**

Project title/Titre du projet	
Approved by/Approve par A.C.	
Designed by/Concept par S.L.	
Drawn by/Dessiné par WSL	
PWGC Project Manager/Administrateur de Projets TRSOC	
PWGC Architectural and Engineering Resource Manager/ Ressources Architecturales et de Directeur d'ingénierie TRSOC	
Client/client	
Drawing title/Titre du dessin	

**2.743m WIDE STANDARD ENDS**  
**FLOAT MODULE ASSEMBLY**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Revision no.
KM-FR	008	
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**FLOAT CONNECTION DETAILS AND  
WALKWAY TREAD DETAIL**

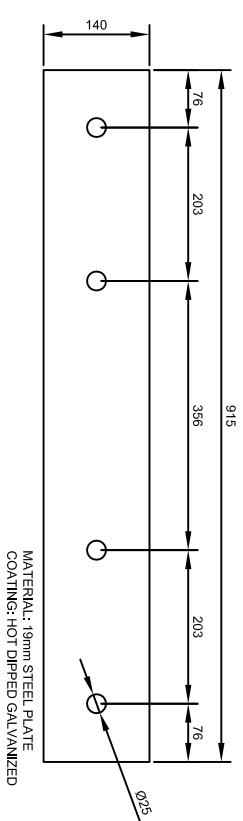
Project No./No. du projet

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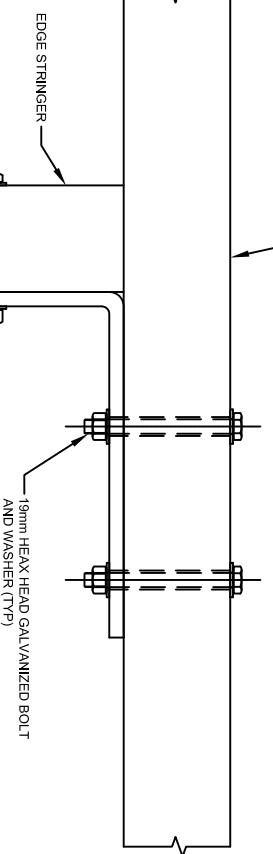
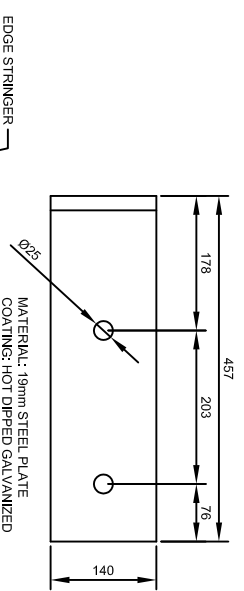
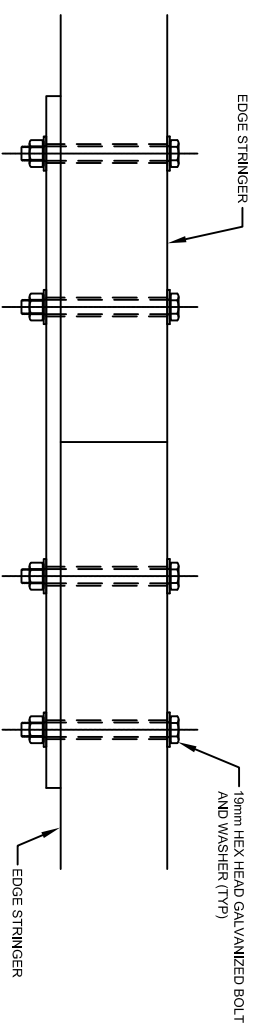
KM-FR 009

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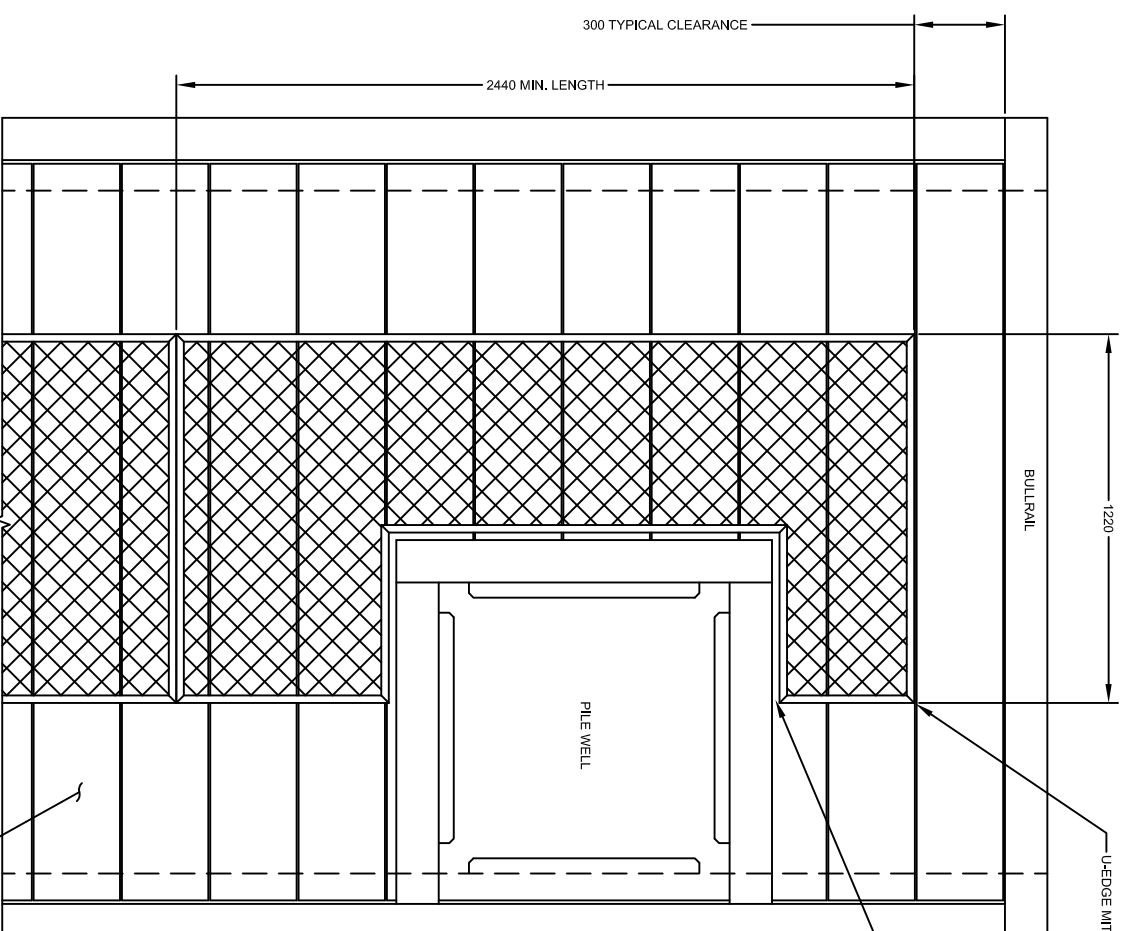
Revision no./  
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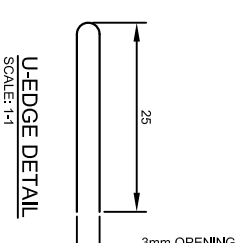
FLOAT CONNECTOR: STRAIGHT  
SCALE: 1-10



FLOAT CONNECTOR: ANGLED  
SCALE: 1-10



PLAN VIEW WALKWAY TREAD LAYOUT (TYPICAL)  
SCALE: 1-50



U-EDGE DETAIL  
SCALE: 1-1

- NOTES:
1. WALKWAY TREAD INSTALLED DOWN CENTRE OF FLOAT AS SHOWN.
  2. TREAD MATERIAL TO BE CUT TO CONFORM TO SURFACE MOUNTED ITEMS SUCH AS PILE WELLS, ELECTRICAL RECEPTACLE CABINETS, ETC.
  3. U-EDGING TO BE INSTALLED OVER ALL EXPOSED EDGES OF WIRE MESH WITH CORNERS MITRED AT 45 DEGREES.
  4. U-EDGING TO BE PRE-DRILLED AND FASTENED WITH #4 STAINLESS PAN HEAD WOOD SCREWS, 38mm (1 1/2" LONG).
  5. FASTENERS TO HAVE A MAXIMUM SPACING OF 500mm WITH TWO (2) CONNECTION POINTS AT EACH CORNER.

WALKWAY TREAD MATERIAL:  
1-1/2" #9 AMICO FLATTENED EXPANDED METAL MESH (CARBON STEEL) OR EQUIVALENT.

U-EDGING MATERIAL: 18 GAUGE #401 METALUART OR EQUIVALENT WITH DIMENSIONS SHOWN.

LEAVE MINIMUM 25mm CLEARANCE FROM PILE WELLS AND OTHER SURFACE MOUNTED ITEMS

BULLRIP

300 TYPICAL CLEARANCE

2440 MIN. LENGTH

PILE WELL

U-EDGE MITRED AT 45° ANGLE ON CORNERS

INSTALL OWNER SUPPLIED DECKING THAT IS BUNDLED TO FLOAT



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200 - 401 Burrard Street  
Vancouver, Canada, V6C 3S4

Project title/Titre du projet

**KITAMAAT HARBOUR  
FLOAT RECONSTRUCTION**

Approved by/Approuvé par  
A.C.

Designed by/Concepté par  
S.L.

Drawn by/Dessiné par  
W.S.L.

PWGC Project Manager/Administrateur du Projet TSQC

PWGC Architectural and Engineering Resources Manager/  
Ressources Architecturales et de Directeur d'ingénierie TSQC

Client/client

Drawing title/Titre du dessin

**PILE MOORING BRACKET DETAILS**

Project No./No. du projet

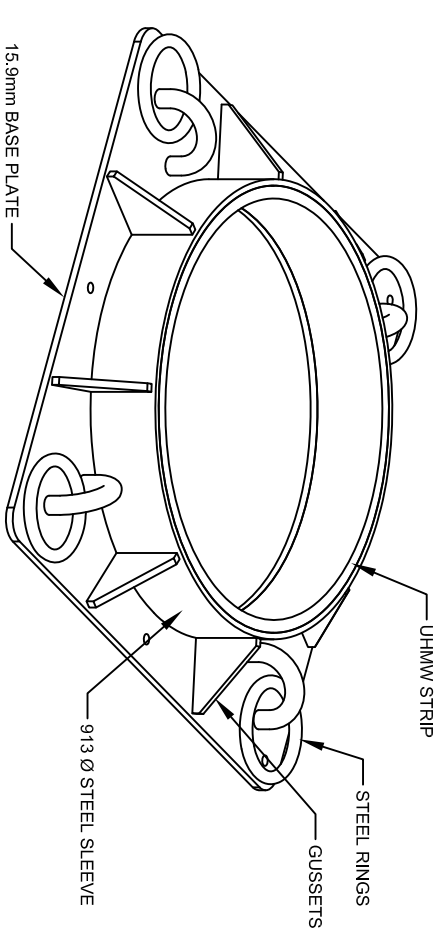
KM-FR

Sheet/Feuille

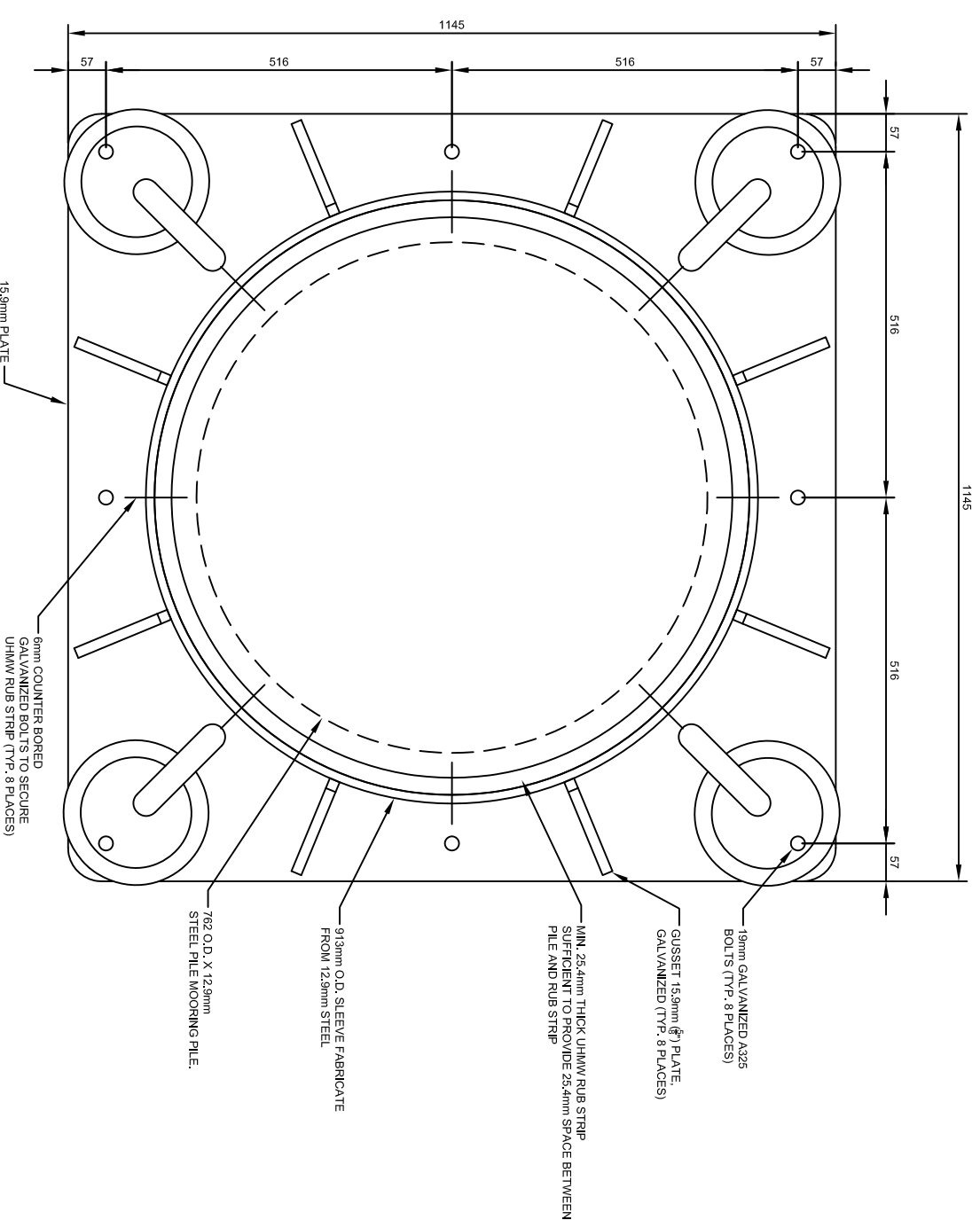
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Revision no./  
La Revision no.

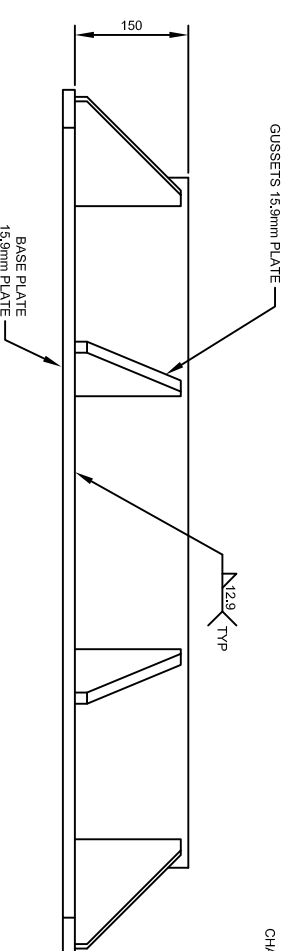
- NOTES:**
1. ASSEMBLY IS TO BE A36 STEEL GALVANIZED TO Z02/F17 UNLESS OTHERWISE NOTED.
  2. 152mm x 26mm RUB STRIPS TO BE HEAT MOLDED TO INSIDE OF PIPE AND ATTACHED WITH SCREWS THROUGH COUNTER SUNK 53mm HOLES
  3. 2030 WELDED RING MADE FROM 250 STEEL ROD TO BE PLACED INSIDE MOORING HOOP.
  4. CHAMFER UHMW RUB STRIP AT TOP AND BOTTOM EDGES AT PILE-RUB STRIP INTERFACE.



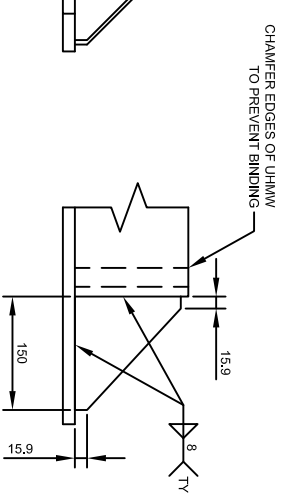
**MOORING BRACKET**  
SCALE: 1-20



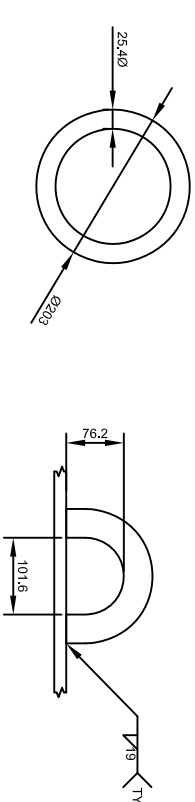
**PILE MOORING BRACKET - PLAN VIEW**  
SCALE: 1-10



**PILE MOORING BRACKET - SIDE VIEW**  
SCALE: 1-10



**PILE MOORING BRACKET - GUSSET DETAIL**  
SCALE: 1-10



**PILE MOORING BRACKET - RING DETAIL**  
SCALE: 1-10

**DO NOT SCALE DRAWINGS**

Revision/Modification	Description	Date/Date

**Client/client**  
Fisheries & Oceans Canada  
Small Craft Harbours Branch  
Pacific Division  
200 - 401 Burrard Street  
Vancouver, Canada, V6C 3S4

**Project title/Titre du projet**

**KITAMAAT HARBOUR  
FLOAT RECONSTRUCTION**

**Approved by/Approuvé par**  
A.C.

**Designed by/Concepté par**  
S.L.

**Drawn by/Dessiné par**  
W.S.L.

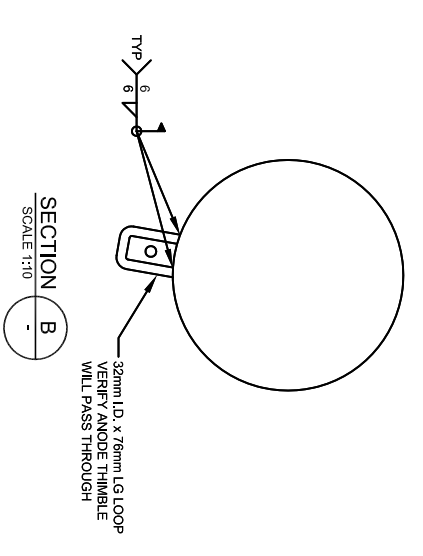
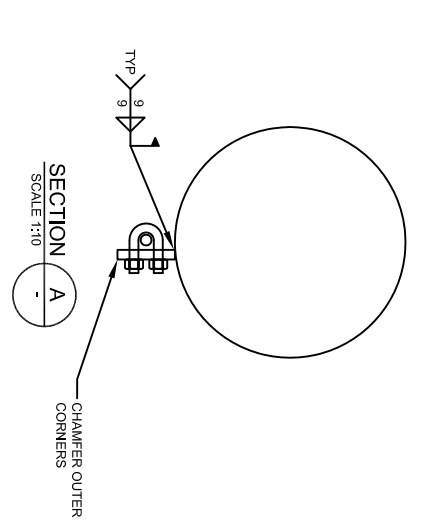
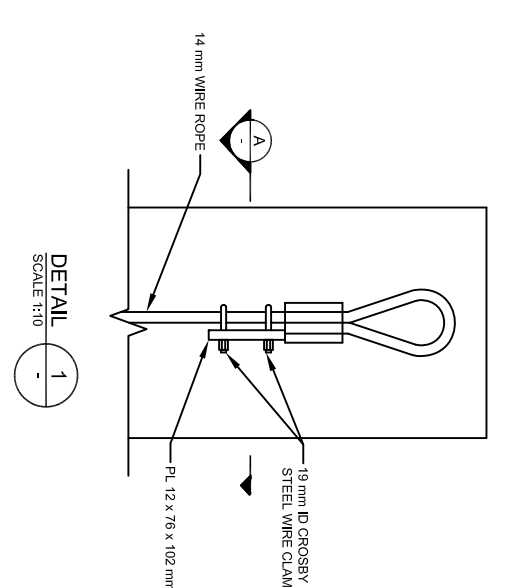
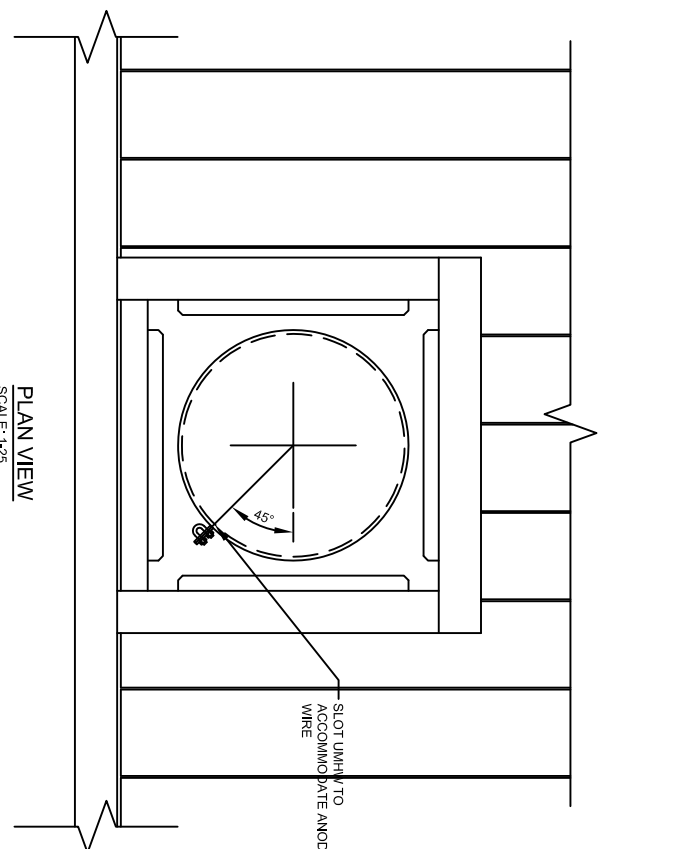
**PWGC Project Manager/Administrateur de Projets TRSQC**

**PWGC Architectural and Engineering Resources Manager/Responsable Architectural et de Directeur d'ingénierie TRSQC**

**Client/client**

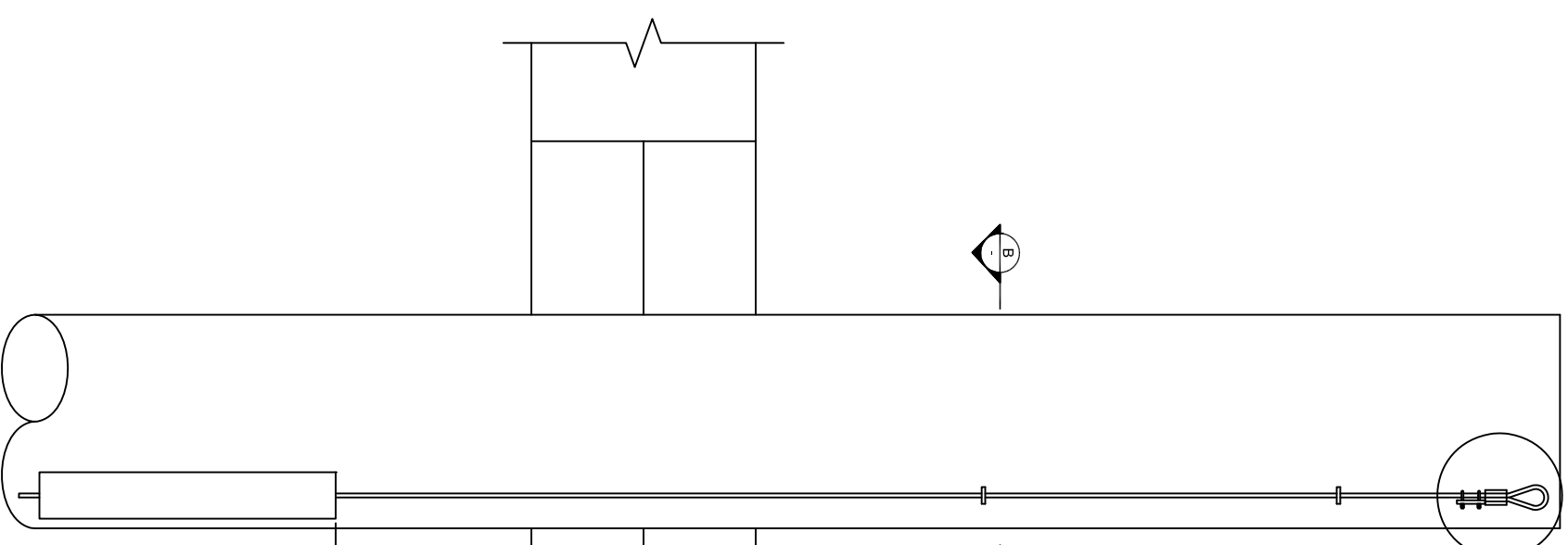
**ANODE INSTALLATION  
INSTRUCTIONS**

<b>Project No./No. du projet</b>	<b>Sheet/Feuille</b>	<b>Revision no./La Revision no.</b>
KM-FR	011	OF



MIN. 600 mm OR 2 FT. FROM BOTTOM OF PONTOON TO TOP OF ANODE AT LW

**ELEVATION VIEW**  
SCALE: 1:25



**DO NOT SCALE DRAWINGS**

Revision/ Client/Client	Description/Description	Date/Date

**Fisheries & Oceans Canada**  
**Small Craft Harbours Branch**  
**Pacific Division**  
200 - 401 Burrard Street  
Vancouver, Canada, V6C 3S4

Project title/Titre du projet

**KITAMAAT HARBOUR  
FLOAT RECONSTRUCTION**

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Drawn by/Dessiné par  
W.S.L.

PWGC Project Manager/Administrateur de Projets TRSQC

PWGC Architectural and Engineering Resources Manager/  
Ressources Architecturales et de Directeur d'Ingénierie TRSQC

Client/Client

Drawing title/Titre du dessin

**STANDARD GANGWAY  
GENERAL ARRANGEMENT**

Project No./No. du projet  
KM-FR

Sheet/Feuille  
016

Revision no./  
La Revision no.  
OF

GALV. STEEL DIAMOND-GRIP DECKING 51 mm  
DEEP, 266 mm (12 GAUGE), 241 (9 1/2") AND 298 mm  
(11 3/4") WIDE x 3048 LONG. STAGGER DECKING  
WIDTHS. BOLT TO FLOOR BEAMS WITH  
2 - 410 mm (3/8") BOLTS/CONTACT PLANK.  
BOLTS TO BE TIGHTENED TO DEVELOP FRICTION  
BETWEEN PLANKS AND FLOORBEAMS

CONNECT PLANK WEBS WITH 1-#12x14  
GALV. SHEET METAL SCREW AT MID-SPAN

COVER HINGES WITH FLASHING  
SEE DETAIL 1  
020

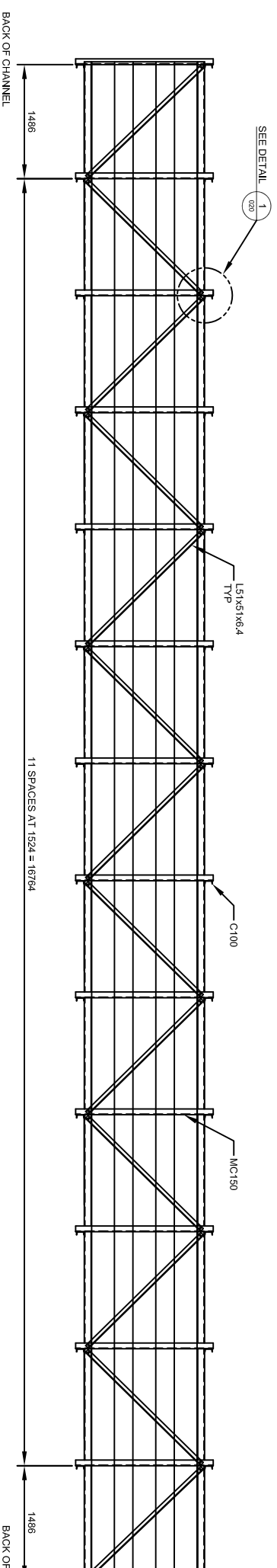
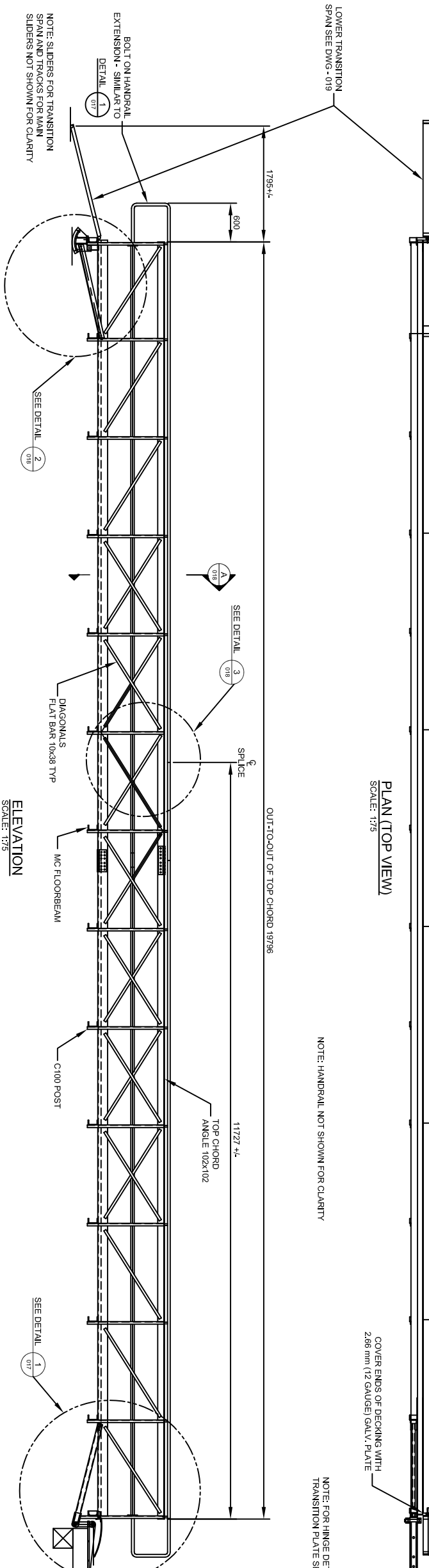
COVER ENDS OF DECKING WITH  
266 mm (12 GAUGE) GALV. PLATE

**PLAN (TOP VIEW)**

SCALE: 1/75

NOTE: HANDRAIL NOT SHOWN FOR CLARITY

NOTE: FOR HINGE DETAILS AND  
TRANSITION PLATE SEE DWG-017



**DO NOT SCALE DRAWINGS**

Revision/ Révision	Description/Description	Date/Date

**Fisheries & Oceans Canada**  
**Small Craft Harbours Branch**  
**Pacific Division**  
  
200 - 401 Burrard Street  
Vancouver, Canada, V6C 3S4

Project title/ Titre du projet

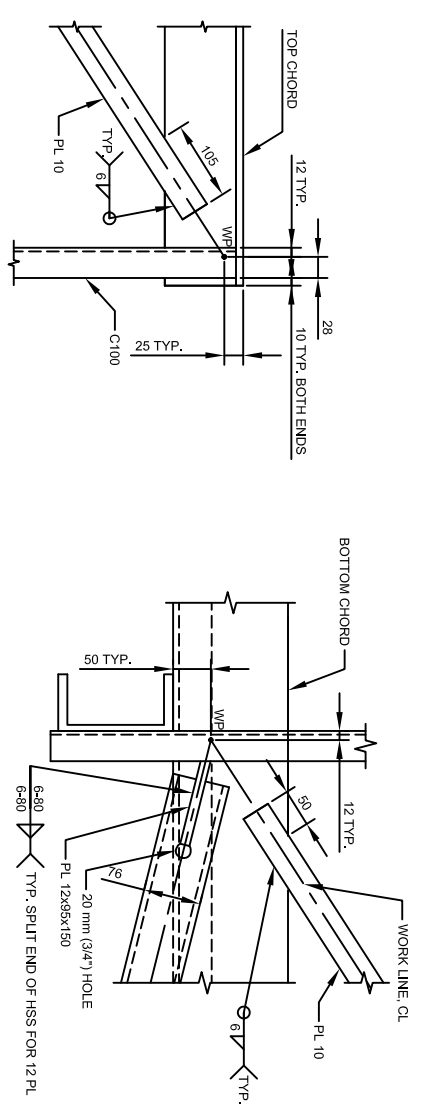
**KITAMAAT HARBOUR**  
**FLOAT RECONSTRUCTION**

Approved by/ Approuvé par  
A.C.  
Designed by/ Concepté par  
S.L.  
Drawn by/ Dessiné par  
WSL

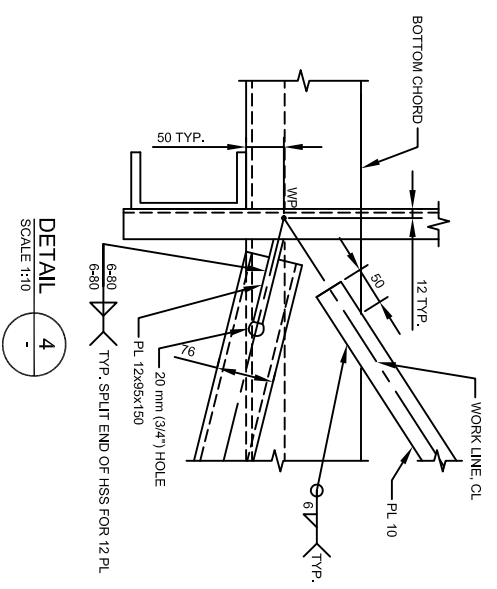
PWGC Project Manager/ Administrateur du projet TTSOC  
  
PWGC Architectural and Engineering Resources Manager/  
Ressources Architecturales et de Directeur d'ingénierie TTSOC

Client/client  
  
Drawing title/ Titre du dessin  
  
**STANDARD GANGWAY**  
**UPPER TRANSITION**

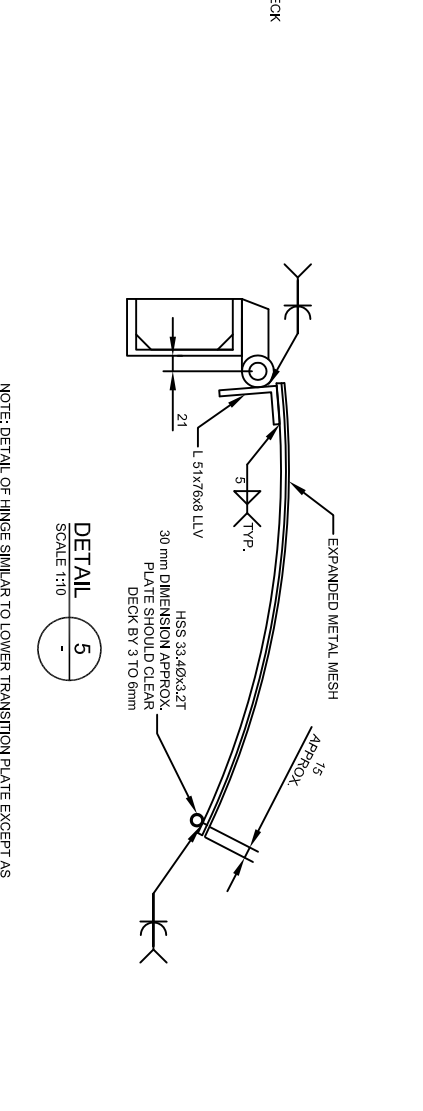
Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
KM-FR	017	OF



DETAIL 3  
SCALE 1:10

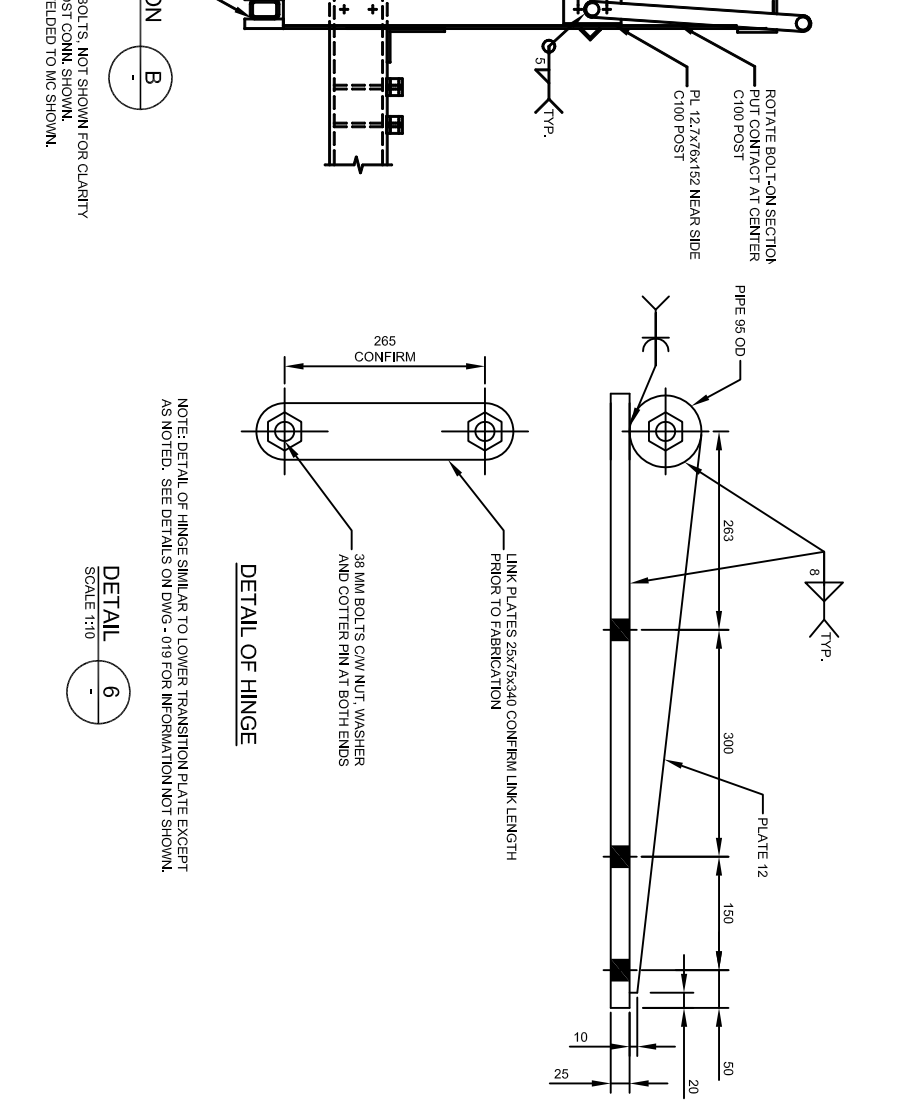


DETAIL 4  
SCALE 1:10



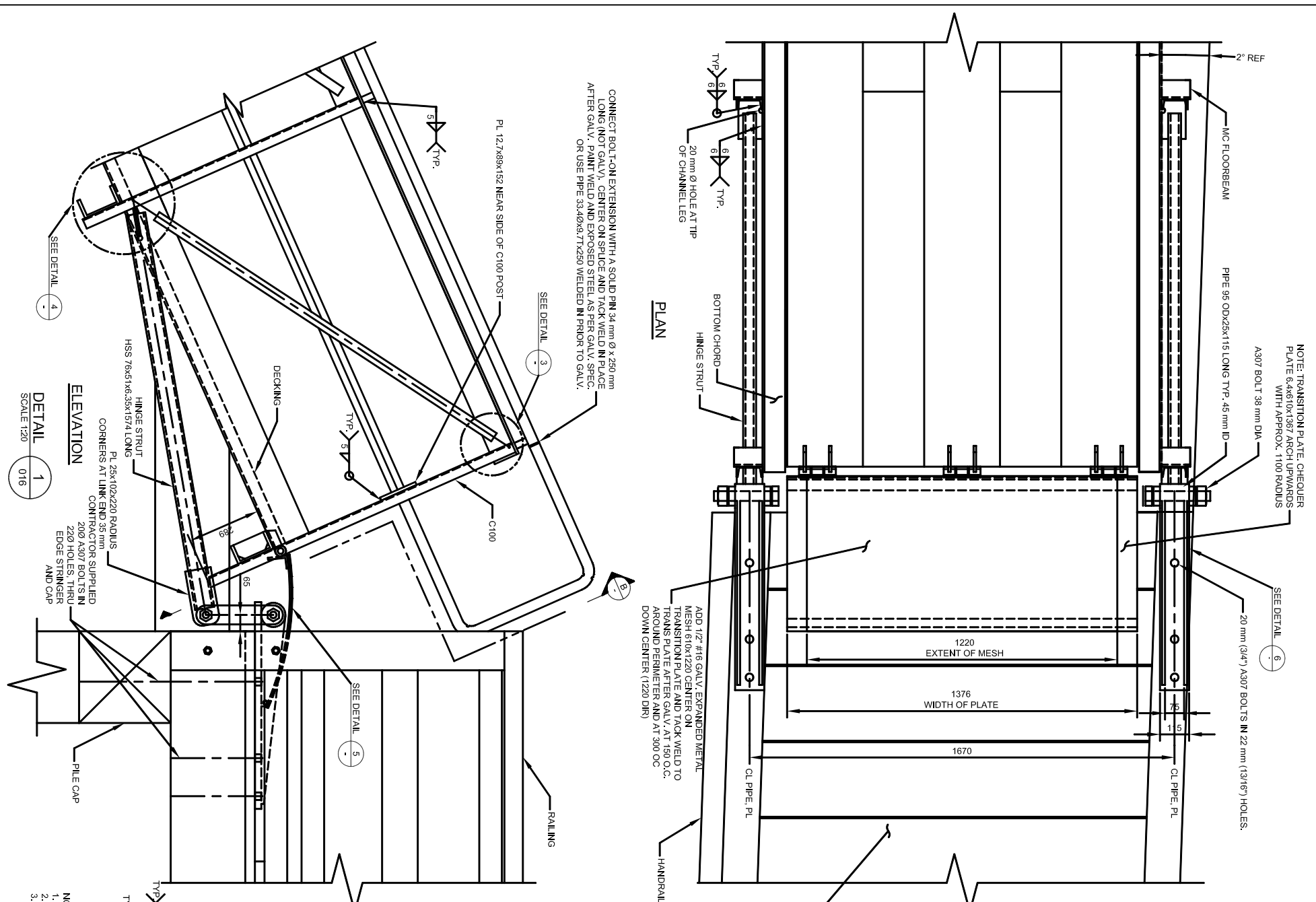
DETAIL 5  
SCALE 1:10

NOTE: DETAIL OF HINGE SIMILAR TO LOWER TRANSITION PLATE EXCEPT AS NOTED. SEE DETAILS ON SHEET 4 FOR INFORMATION NOT SHOWN.



ELEVATION  
SCALE 1:20

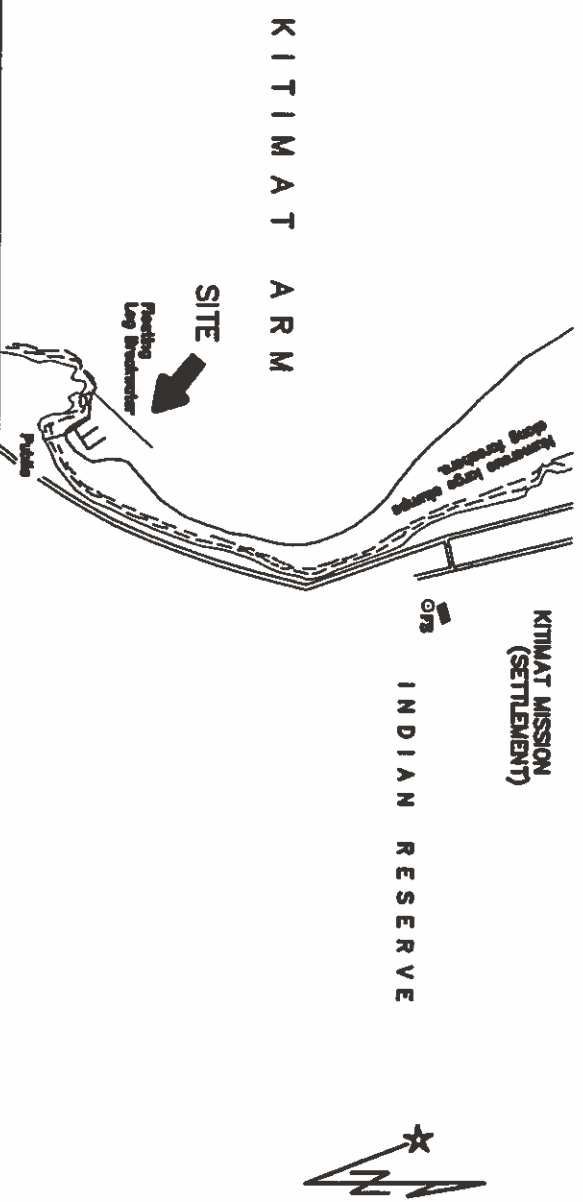
SECTION B  
SCALE 1:20



PLAN  
SCALE 1:20

CONNECT BOLT-TION EXTENSION WITH A SOLID PIN 34 mm Ø x 250 mm LONG (NOT GALV.). CENTER ON SPLICE AND TACK WELD IN PLACE AFTER GALV. PAINT WELD AND EXPOSED STEEL AS PER GALV. SPEC. OR USE PIPE 33.40x3.2T x 250 WELDED IN PRIOR TO GALV.





**NOTES:**

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS.

**DESIGN CRITERIA:**

1. NFPA 307, "STANDARD FOR THE CONSTRUCTION AND FIRE PROTECTION OF MARINE TERMINALS, PIERS, AND WHARVES."

**AUTHORITIES:**

1. LOCAL HARBOUR AUTHORITY.
2. DEPARTMENT OF FISHERIES AND OCEANS, SMALL CRAFT HARBOURS BRANCH.
3. LOCAL FIRE DEPARTMENT.

2. NFPA 303, "FIRE PROTECTION STANDARD FOR MARINAS AND BOATYARDS."

PRESSURE LOSSES FROM APPROACH FIRE DEPARTMENT CONNECTION TO FLOAT END HOSE VALVE:

100 USGPM	20 PSI
150 USGPM	35 PSI

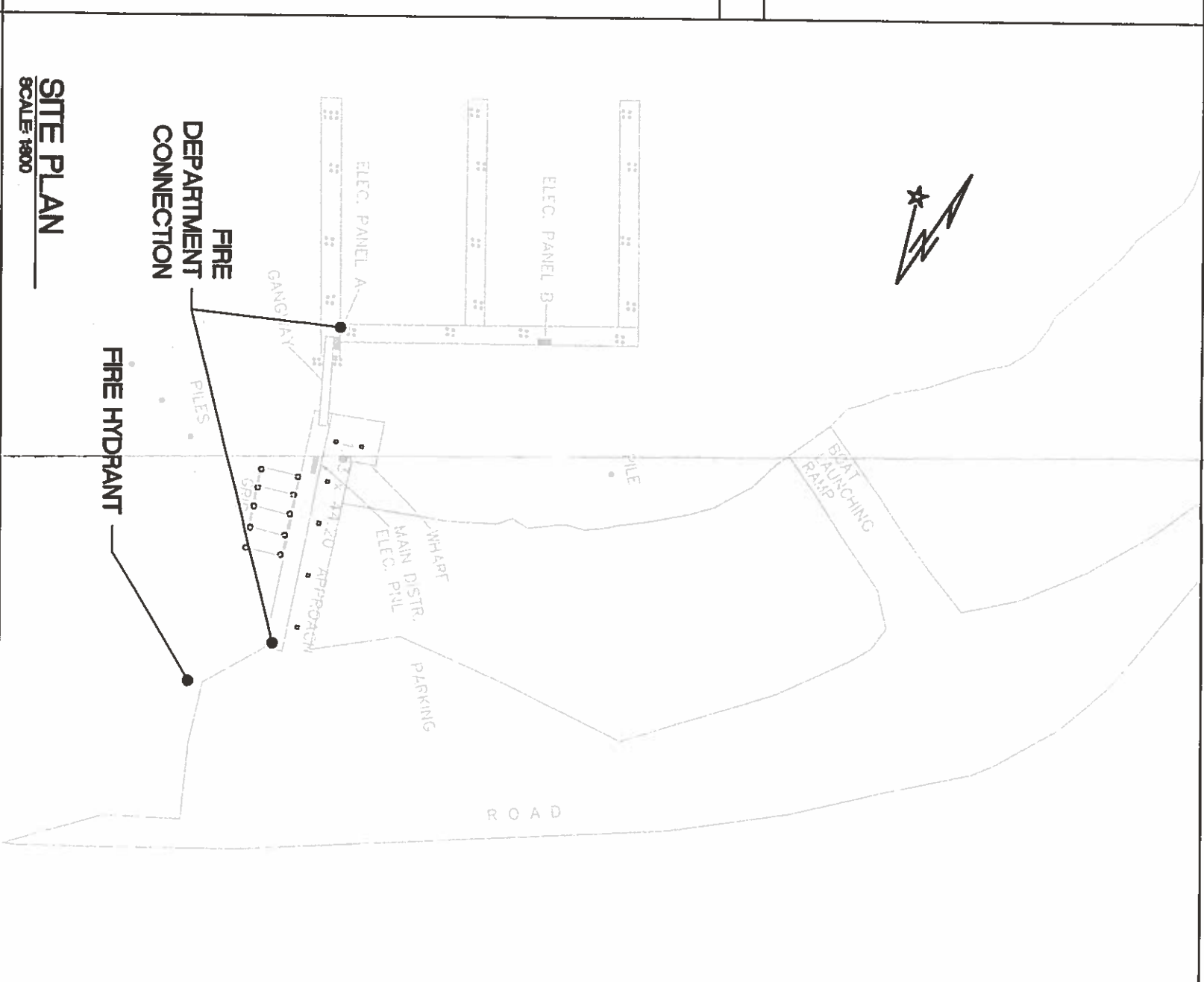
**PROJECT SCOPE:**

1. INSTALLATION OF FIRE LINE ON APPROACH.



**GBA**

GAGE-BABCOCK & ASSOCIATES LTD.  
ENGINEERS CONSULTANTS FIRE PROTECTION SAFETY SECURITY  
228 - 1195 WEST BROADWAY  
VANCOUVER, BRITISH COLUMBIA  
CANADA V6B 3X5  
TEL: (604) 732-8761  
FAX: (604) 732-1277  
EMAIL: info@gbacan.com



TITLE: FIRE LINE

SCALE: AS NOTED

FILE NO.: 142220-1

DRAWN BY: AKT

DATE PRINTED: NOV 19, 2014

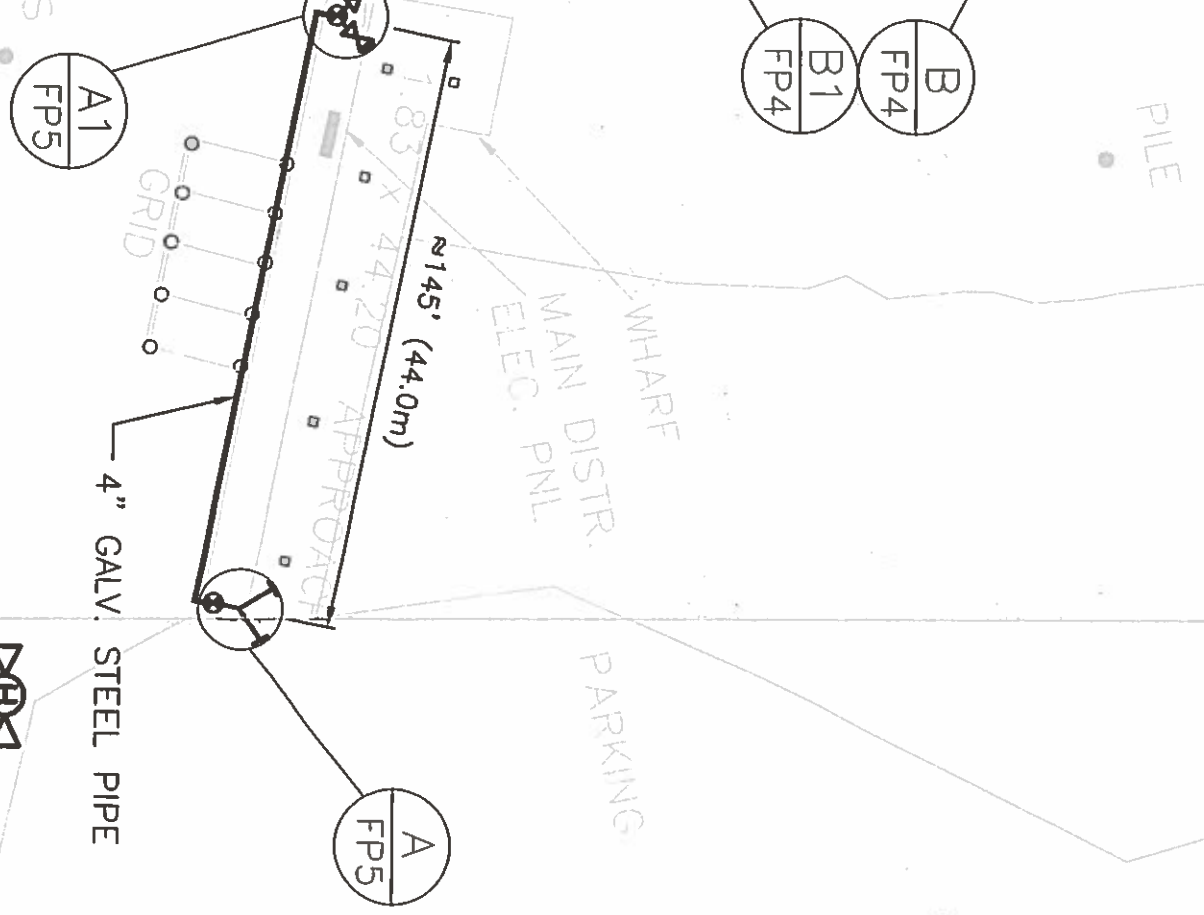
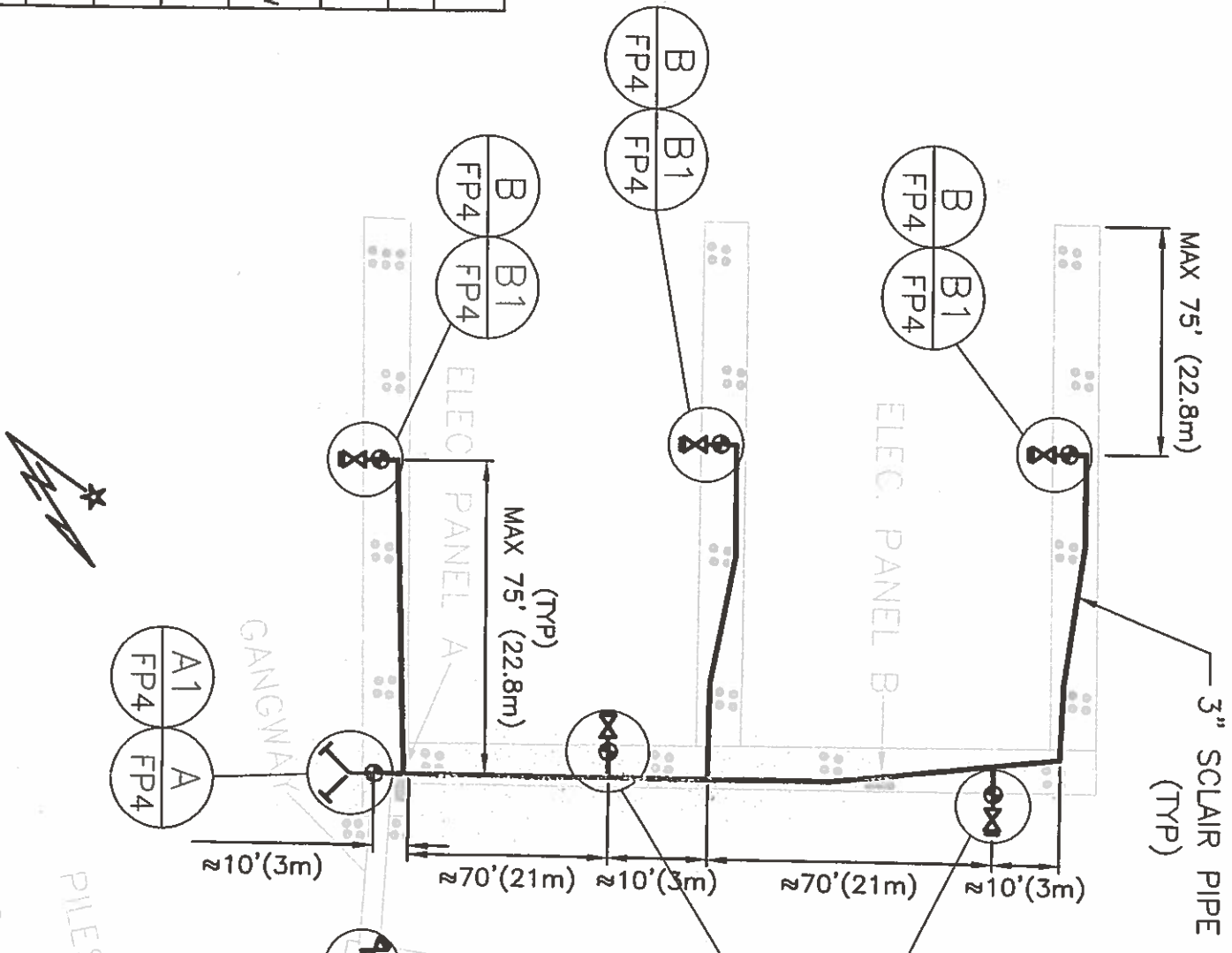
CHECKED BY: GM

SHEET: FP 1 OF: 5

REVIEWED BY: GM

REV. DATE: -

LEGEND	
SYMBOL	DESCRIPTION
	2 1/2" HOSE VALVE C/W CAP
	4" X 2 1/2" X 2 1/2" FIRE DEPARTMENT CONNECTION C/W CAPS
	RISER
	PIPE HANGER
	4X SWAY BRACING
	2X SWAY BRACING
	FIRE LINE
	EXISTING FIRE HYDRANT
	4" X 2 1/2" X 2 1/2" HEADER C/W 2 1/2" HOSE VALVES



**FLOAT FIRE LINE**  
SCALE: 1/8"=1'-0"

PROJECT: KITIMAT, SMALL CRAFT HARBOUR FLOATS

TITLE: FIRE LINE

SCALE: AS NOTED

DRAWN BY: AKT

CHECKED BY: GM

REVIEWED BY: GM

FILE NO.: 142220-1

DATE PRINTED: NOV 19, 2014

SHEET: FP 2 OF 5 REVISION: -

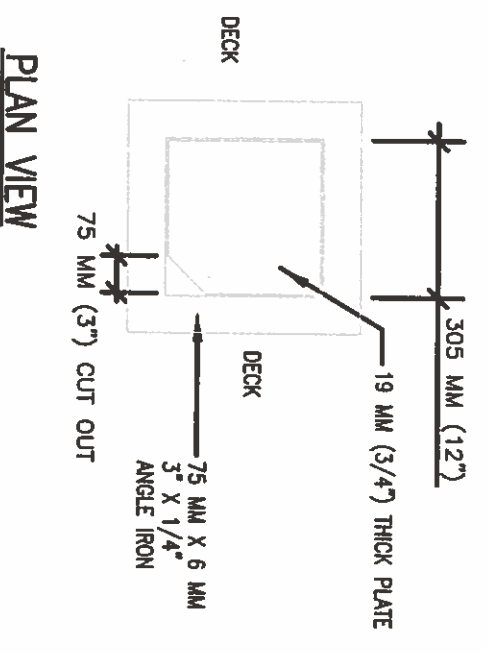
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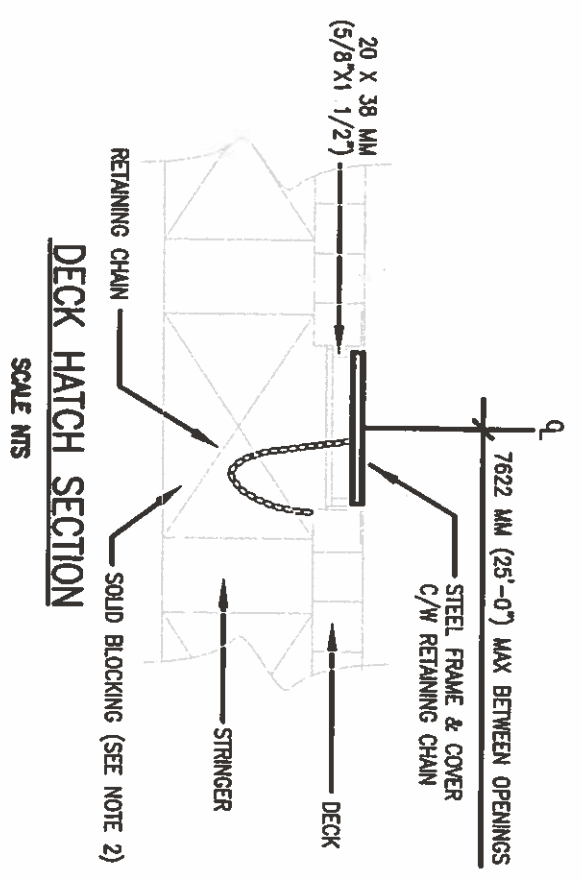
**GAGE-BABCOCK & ASSOCIATES LTD.**  
ENGINEERS CONSULTANTS FIRE PROTECTION SAFETY SECURITY

228 - 1195 WEST BROADWAY  
VANCOUVER, BRITISH COLUMBIA  
CANADA V6H 3X5  
TEL (604) 732-3761  
FAX (604) 732-1277  
EMAIL: info@gbacan.com





PLAN VIEW

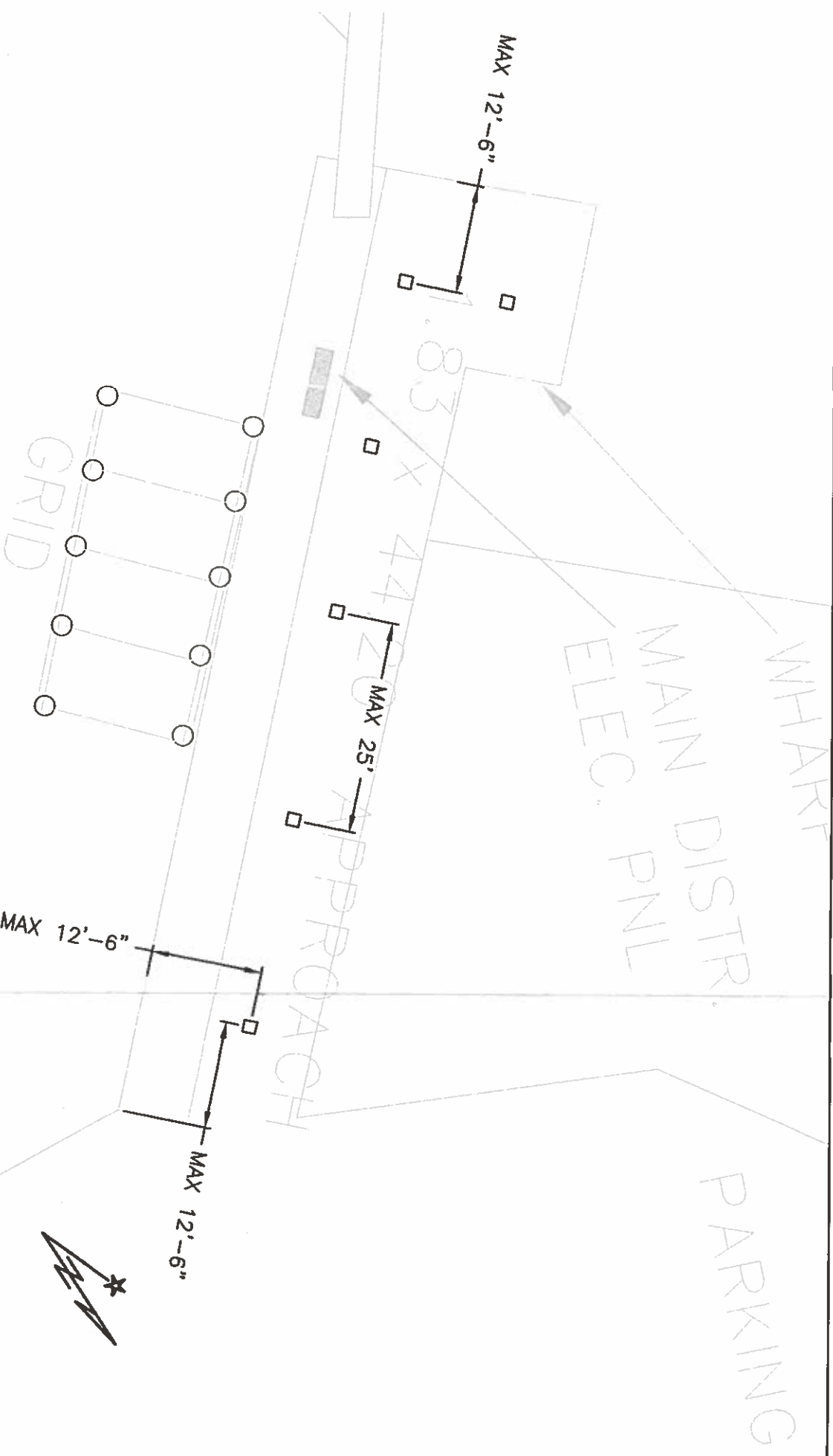


DECK HATCH SECTION

SCALE NTS

LEGEND	
SYMBOL	DESCRIPTION
□	DECK HATCH

PILES



**APPROACH FIRE LINE**  
SCALE 1:600

PROJECT: KITIMAT, SMALL CRAFT HARBOUR FLOATS

TITLE: FIRE LINE

SCALE: AS NOTED

DRAWN BY: AKT

CHECKED BY: GM

REVIEWED BY: GM

FILE NO.: 142220-1

DATE PRINTED: NOV 19, 2014

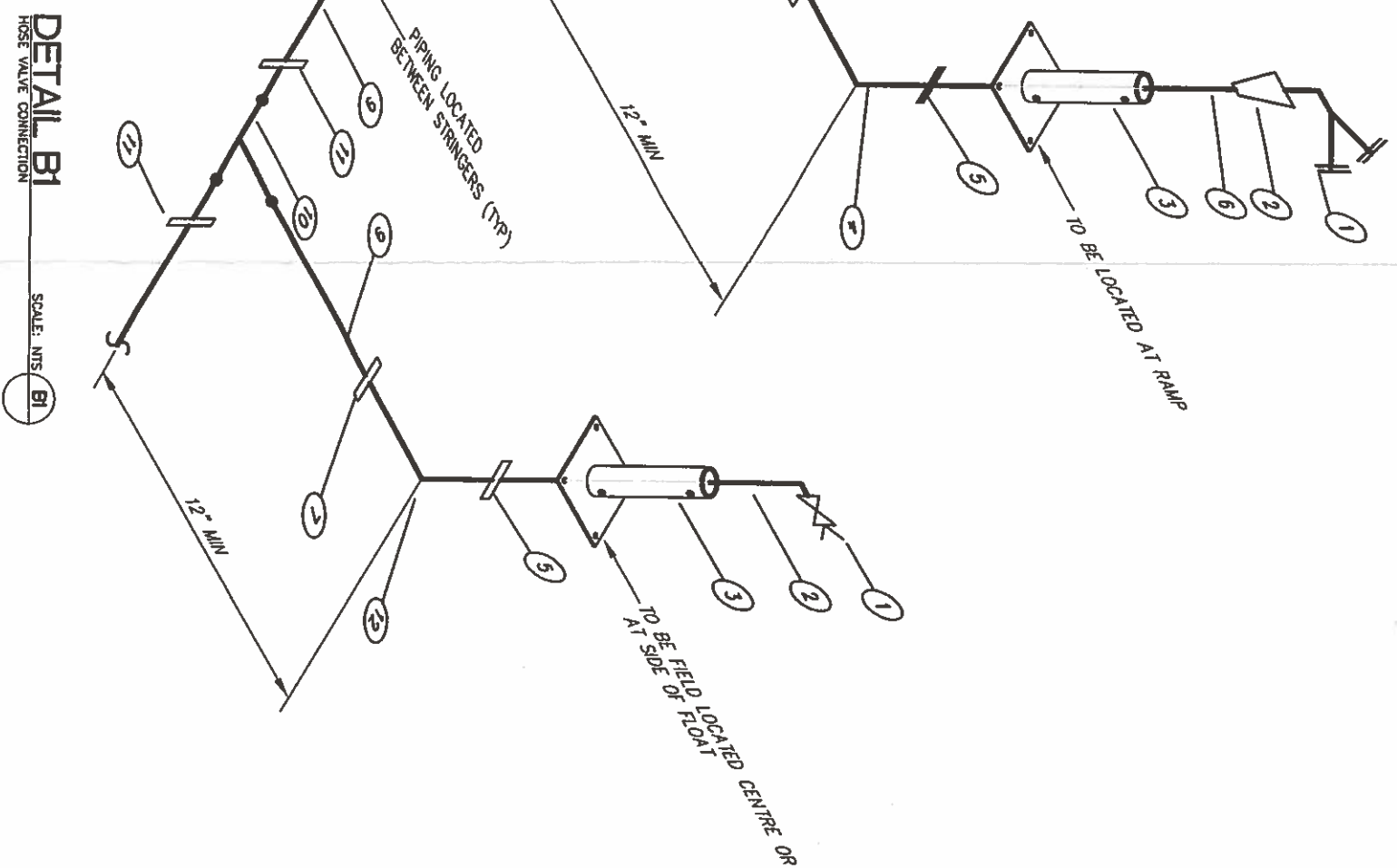
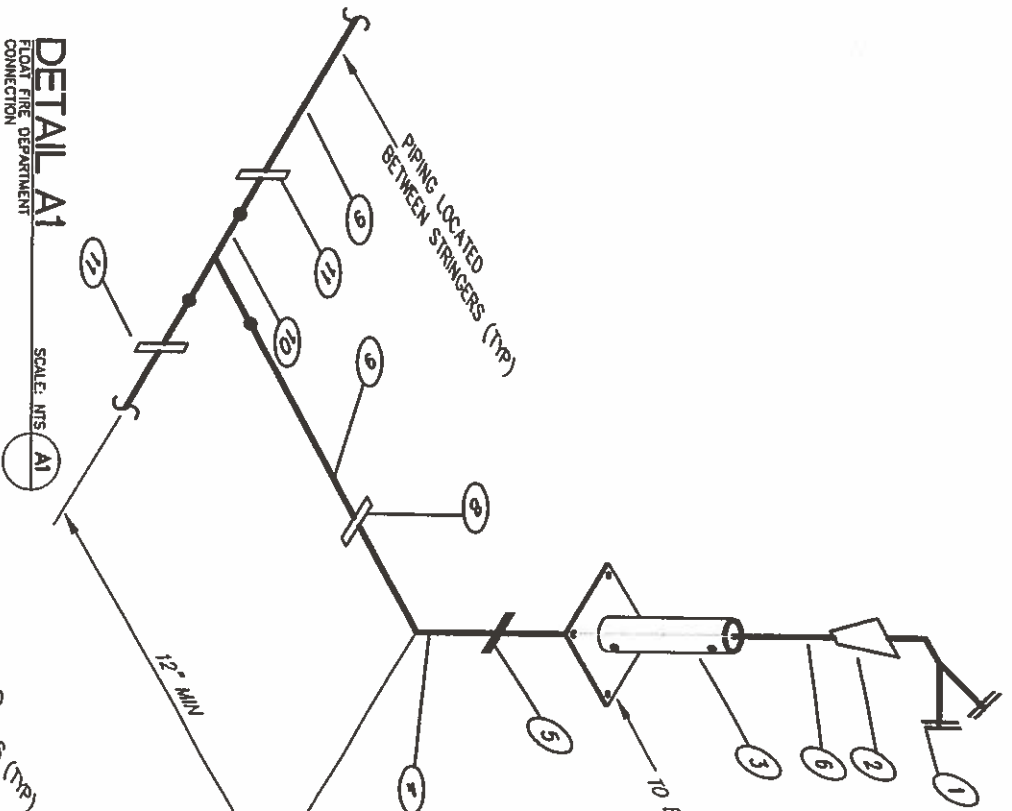
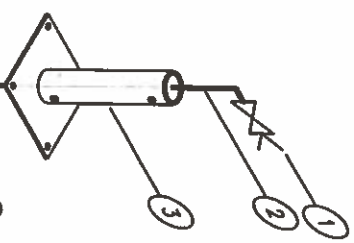
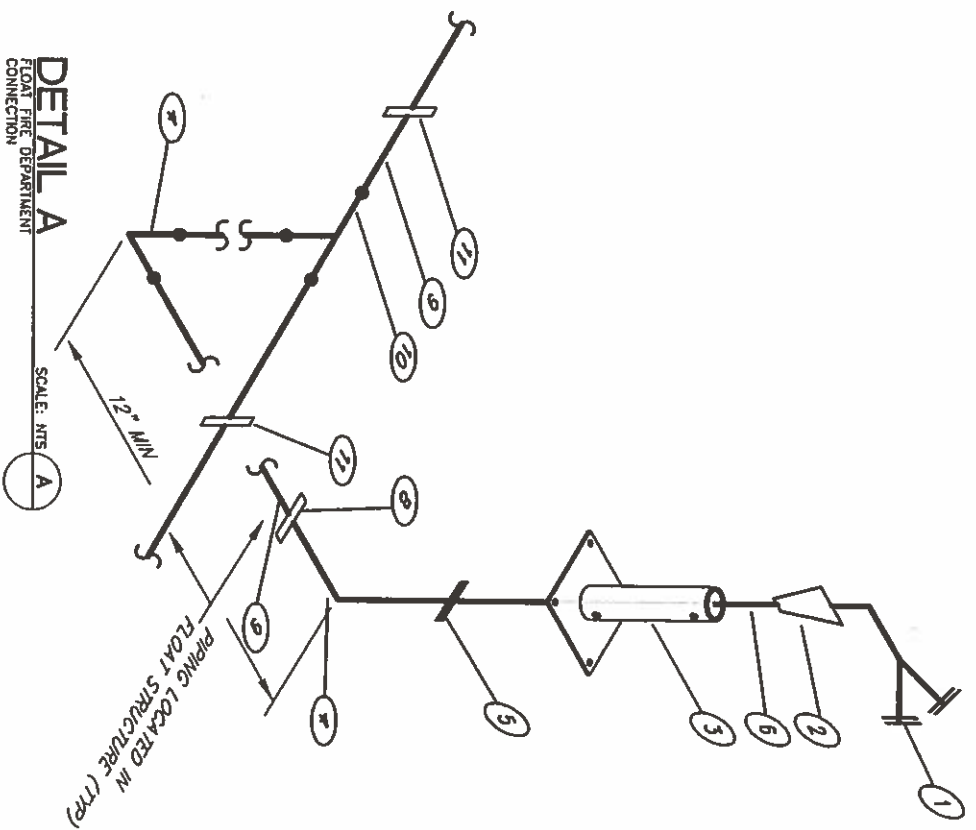
SHEET: FP 3 OF: 5

REVISION: -



**GAGE-BABCOCK & ASSOCIATES LTD.**  
ENGINEERS CONSULTANTS FIRE PROTECTION SAFETY SECURITY

228 - 1196 WEST BROADWAY  
VANCOUVER, BRITISH COLUMBIA  
CANADA V6B 3T5  
TEL (604) 732-3751  
FAX (604) 732-1277  
EMAIL: info@gbacan.com



- LEGEND (DETAIL "A & A1")**
- 4 x 2 1/2" x 2 1/2" FIRE DEPARTMENT CONNECTION C/W CAPS
  - 4 x 3" GALV. HEX BUSHING
  - PIPE STAND c/w 3/8" x 12" x 12" GALVANIZED STEEL PLATE
  - 3" SCLAIR ELBOW
  - 3" GALV. GROOVED COUPLING
  - 3" DIA. SCH. 40 GALV. PIPE
  - 3" GALV. 90° GROOVED ELBOW
  - 3" GALV. SCLAIR X GROOVED COUPLING
  - 3" SCLAIR PIPE (D-9 TYP)
  - 3" SCLAIR TEE
  - 3" GALV. SCLAIR COUPLING
  - FOR END PIECE USE 3" GALV. SCLAIR X GROOVED COUPLING C/W 3" GALV. GROOVED PLUG

- LEGEND (DETAIL "B & B1")**
- 2 1/2" HOSE VALVE C/W CAPS
  - 2 1/2" DIA GALV. SCH40 PIPE (NPT X GROOVE)
  - PIPE STAND C/W 3/8" x 12" x 12" GALVANIZED STEEL PLATE
  - 3" GALV. GROOVED COUPLING
  - 3" x 2 1/2" GALV. GROOVED COUPLING
  - 
  - 3" GALV. SCLAIR X GROOVED COUPLING
  - 3" SCLAIR ELBOW
  - 3" SCLAIR PIPE (D-9 TYP)
  - 3" SCLAIR TEE
  - 3" GALV. SCLAIR COUPLING. FOR END PIECE USE 3" GALV. SCLAIR X GROOVED COUPLING C/W 3" GALV. GROOVED PLUG
  - 3" GALV. GROOVED ELBOW

- NOTE:**
- FASTEN RISERS TO TOP OF RAILING
  - FASTEN FIRELINE TO TOP OF BULL RAIL



**GAGE-BABCOCK & ASSOCIATES LTD.**

ENGINEERS CONSULTANTS FIRE PROTECTION SAFETY SECURITY  
 228 - 1196 WEST BROADWAY  
 VANCOUVER, BRITISH COLUMBIA  
 CANADA V6H 3K5

TEL (604) 732-3751  
 FAX (604) 732-1277  
 EMAIL: info@gbacan.com

PROJECT: KITMAT, SMALL CRAFT HARBOUR FLOATS

TITLE: FIRE LINE

SCALE: AS NOTED

DRAWN BY: AKT

CHECKED BY: GM

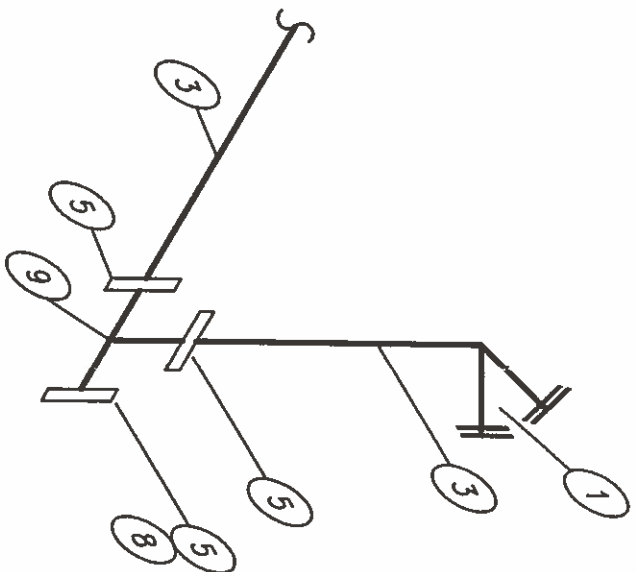
REVIEWED BY: GM

FILE NO.: 142220-1

DATE PRINTED: NOV 19, 2014

SHEET: FP 4 OF: 5 REVISION: -

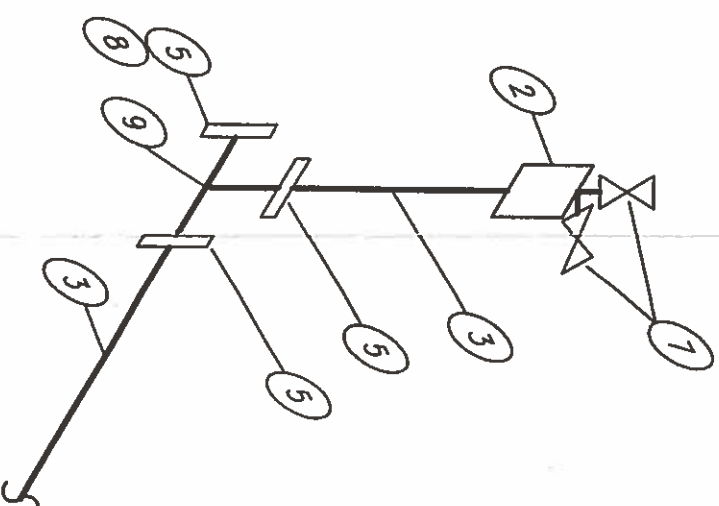
REV. DATE: -



DETAIL A

SCALE: NTS A

- LEGEND (DETAIL "A & A1)
1. 4" x 2 1/2" x 2 1/2" FIRE DEPARTMENT CONNECTION C/W CAPS
  2. 4" x 2 1/2" x 2 1/2" HEADER
  3. 4" DIAMETER SCHEDULE 40 GALVANIZED PIPE
  4. 2 1/2" DIAMETER SCHEDULE 40 GALVANIZED PIPE
  5. 4" GALVANIZED GROOVED COUPLING
  6. 4" x 2 1/2" GALVANIZED GROOVED COUPLING
  7. 2 1/2" HOSE VALVE C/W CAPS
  8. 4" GALVANIZED CAP
  9. 4" GALVANIZED TEE



DETAIL A1

SCALE: NTS A1

PROJECT: KITIMAT, SMALL CRAFT HARBOUR FLOATS

TITLE: FIRE LINE

SCALE: AS NOTED

FILE NO.: 142220-1

DRAWN BY: AKT

DATE PRINTED: NOV 19, 2014

CHECKED BY: GM

SHEET: FP 5 OF: 5 REVISION: -

REVIEWED BY: GM

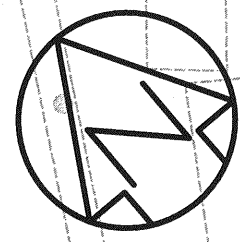
REV. DATE: -



**GBA**

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ENGINEERS CONSULTANTS FIRE PROTECTION SAFETY SECURITY  
228 - 1196 WEST BROADWAY  
VANCOUVER, BRITISH COLUMBIA  
CANADA V6H 3X5

TEL (604) 732-3761  
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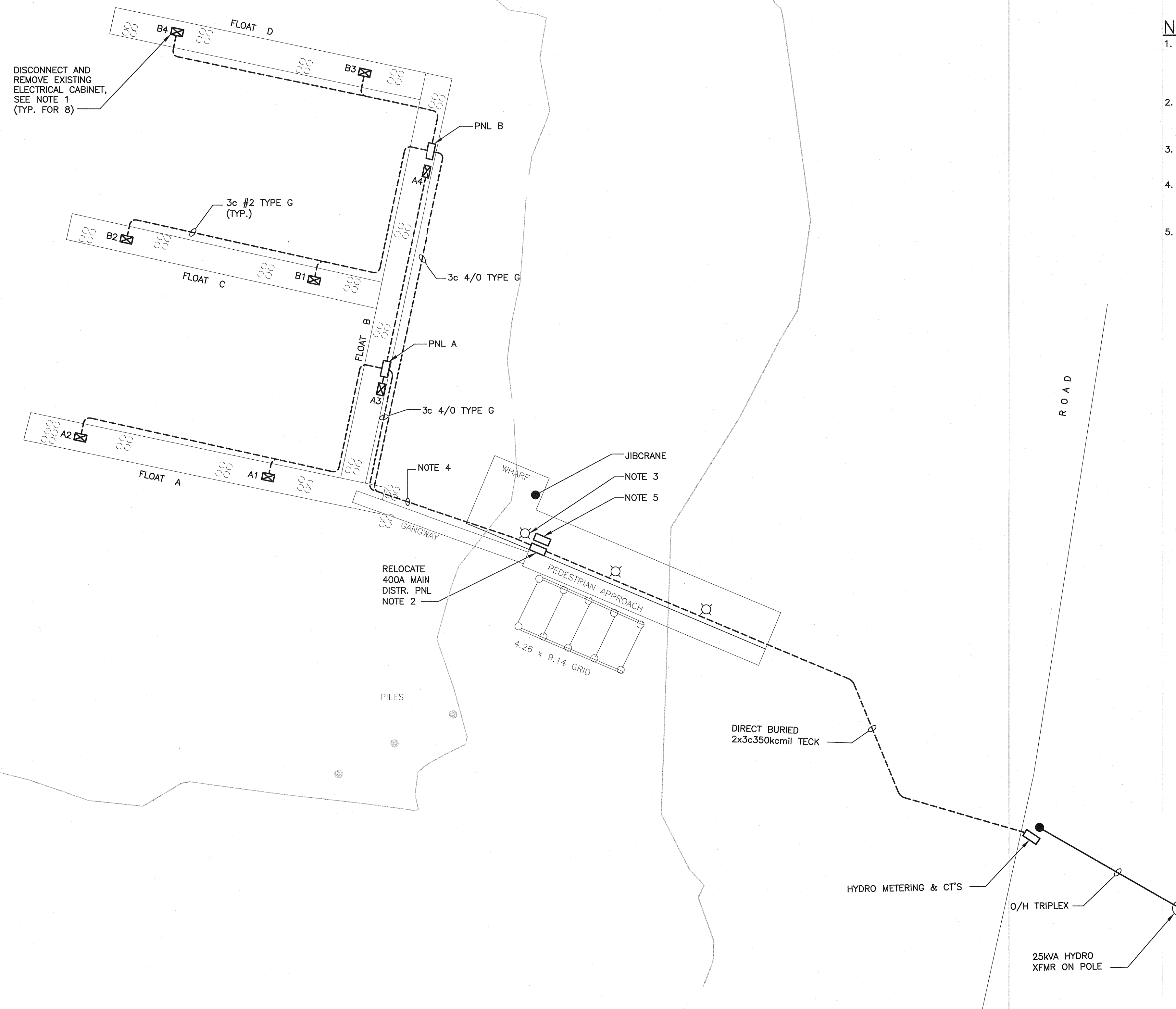


**LEGEND**

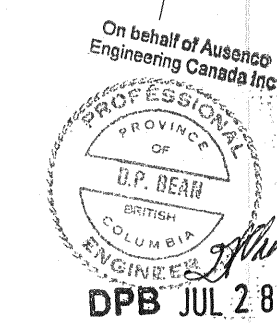
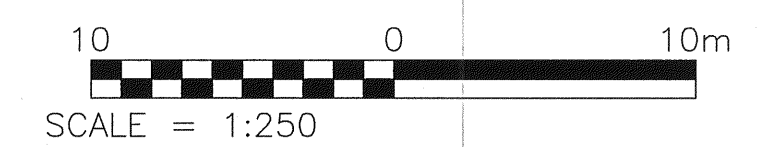
- ☒ RECEPTACLE CABINET c/w LIGHT
- ⊗ EXISTING POLE MOUNTED LIGHT
- ELECTRICAL PANEL ENCLOSURE

**NOTES:**

1. EIGHT NEW RECEPTACLE CABINETS SUPPLIED BY CONTRACTOR FULLY ASSEMBLED AND INSTALLED TO MATCH EXISTING LOCATIONS. EIGHT OLD RECEPTACLE CABINETS SHALL REMAIN THE PROPERTY OF SMALL CRAFT HARBOURS. FOR DETAILS, SEE REF. DWG. KM-EL-003.
2. REMOVE MAIN DISTRIBUTION PANEL AND SUPPORT FRAME AND RELOCATE APPROX. 6 METRES SOUTH TO MATCH LENGTHEND GANGWAY. SEE DWG. KM-EL-003 FOR CABLES AND DETAILS.
3. REMOVE AND RELOCATE LIGHTING POLE TO NEW LOCATION TO MATCH MAIN DISTRIBUTION PANEL.
4. INSTALL NEW 103mm RPVC CONDUIT ALONG GANGWAY. ROUTE CABLES TO FLOAT PANELS A & B WITH SLACK FOR GANGWAY MOVEMENT. SECURE CABLE SLACK AT BOTTOM OF GANGWAY USING KELLEMS GRIPS.
5. REMOVE JIB CRANE CONTROL PANELS TEMPORARILY DURING CONSTRUCTION OF NEW GANGWAY AND RE-INSTALL IN APPROX. SAME LOCATION.



**HARBOUR PLAN**



**Ausenco**  
**FISHERIES AND OCEANS CANADA**  
 SMALL CRAFT HARBOURS

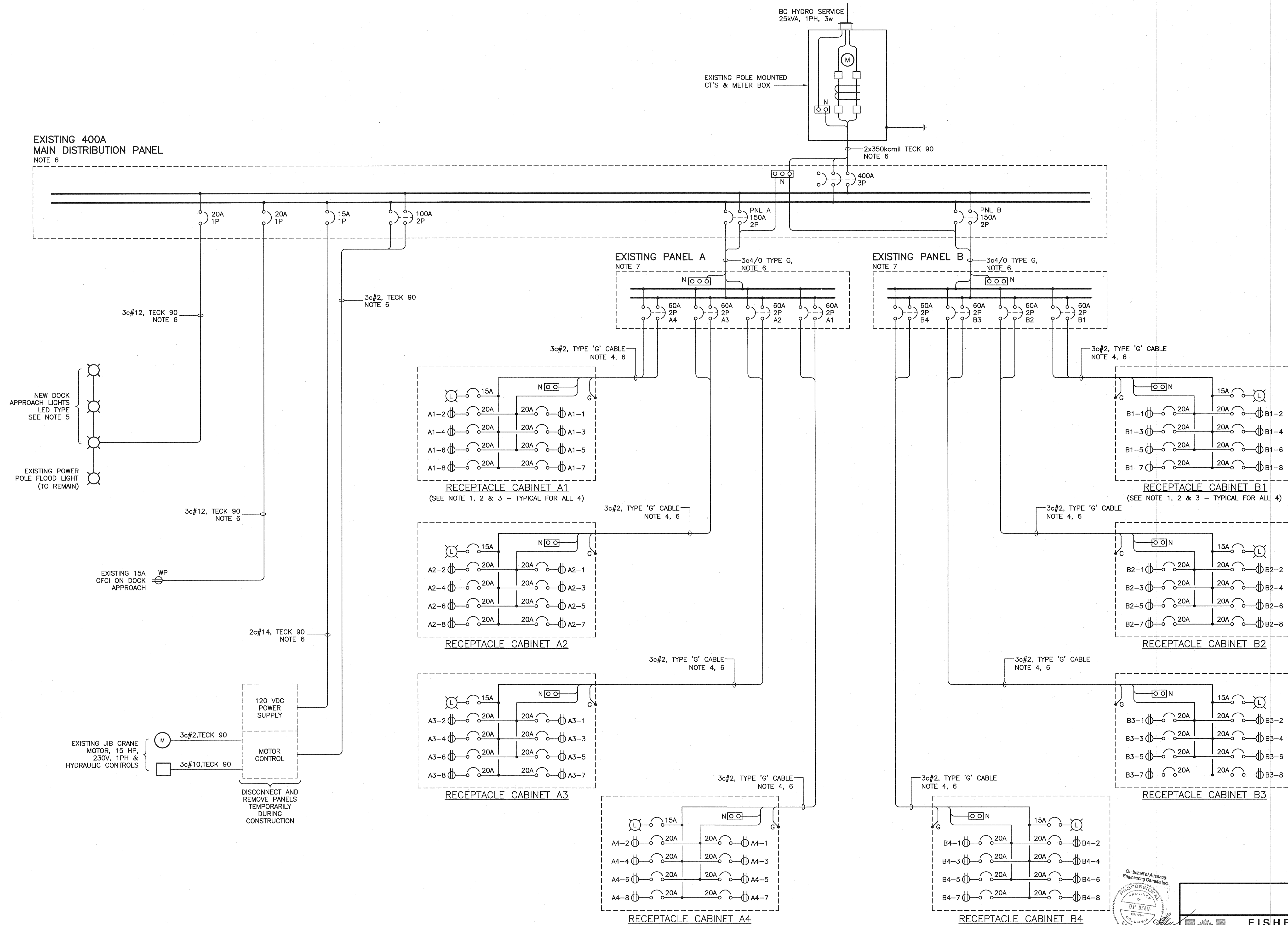
**HARBOUR UPGRADE  
 KITAMAAT VILLAGE  
 SMALL CRAFT HARBOUR PLAN  
 AND DETAILS**

SCALE	1:250
DATE	12-FEB-2014
DRAWING NUMBER	<b>KM-EL-001</b>
REVISION	<b>2</b>

DWG. NO.	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS
KM-EL-004	RECEPTACLE CABINET DETAILS		2	28JUL15	NOTE 1 REVISED.
KM-EL-003	ELECTRICAL DISTRIBUTION DIAGRAM		1	17JUL15	ISSUED FOR CONSTRUCTION. DWG # WAS 100272-E1.
			0	20MAR14	ISSUED FOR CONSTRUCTION

2015-07-28 10:28:15 AM S:\Projects\101252-01\CAD\0000\el\01\KM-EL-001.dwg - laura.lan





- NOTES:**  
 CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING:
- ADD LAMACOID NAMEPLATES TO RECEPTACLE CABINETS AND CIRCUIT BREAKER POSITIONS AS SHOWN. SEE REF. DWG. KM-EL-004 FOR MOUNTING DETAILS.
  - NEW RECEPTACLE CABINETS ARE SUPPLIED BY CONTRACTOR ASSEMBLED. INSTALLED BY CONTRACTOR TO MATCH EXISTING LOCATIONS.
  - ALL RECEPTACLE CABINETS CIRCUIT BREAKERS ARE SINGLE POLE 20A. RECEPTACLES ARE TYPE L5-20R TWIST LOCK.
  - NEW 3c#2, TYPE G CABLE TO NEW RECEPTACLE CABINETS.
  - REPLACE ALL THREE POLE MOUNTED LUMINAIRES ON APPROACH. LUMINAIRES SHALL BE AS FOLLOWS:  
 STANPRO TYPE KL ROADWAY LED,  
 4500K COLOUR TEMP, 120VAC, 65W  
 CAT. KL-65-G-3-W-GY/PR  
 C/W PHOTOCELL AND ITS RECEPTACLE.
  - MAIN DISTRIBUTION PANEL SHALL BE RELOCATED APPROX. 6m SOUTH. CABLE CHANGES ARE:
    - SHORTEN 2x350 kcmil TECK CABLES. APPROX. 6m
    - REMOVE AND RE-USE PANEL A & B. INSTALL IN SAME LOCATIONS
    - REPLACE 3c4/0 TYPE G CABLES FEEDING PANELS A & B
    - REPLACE ALL 3c#2 TYPE G CABLES TO RECEPTACLE CABINETS,
    - REPLACE 3#2 TECK, 2c#14 TECK, TO JIB CRANE CONTROL PANEL
    - REPLACE 3c#12 TECK TO GFCI RECEPTACLE & LIGHTING
  - DISCONNECT AND REMOVE PANEL A & B AND REINSTALL AFTER CONSTRUCTION OF NEW FLOATS AND GANGWAY.

On Behalf of Ausenco  
 Engineering Canada Inc.  
 P. P. BEHN  
 ENGINEER  
 DPB JUL 28 2015

**Ausenco**  
 FISHERIES AND OCEANS CANADA  
 SMALL CRAFT HARBOURS

**HARBOUR UPGRADE  
 KITAMAAT VILLAGE  
 SMALL CRAFT HARBOUR  
 ELECTRICAL DISTRIBUTION DIAGRAM**

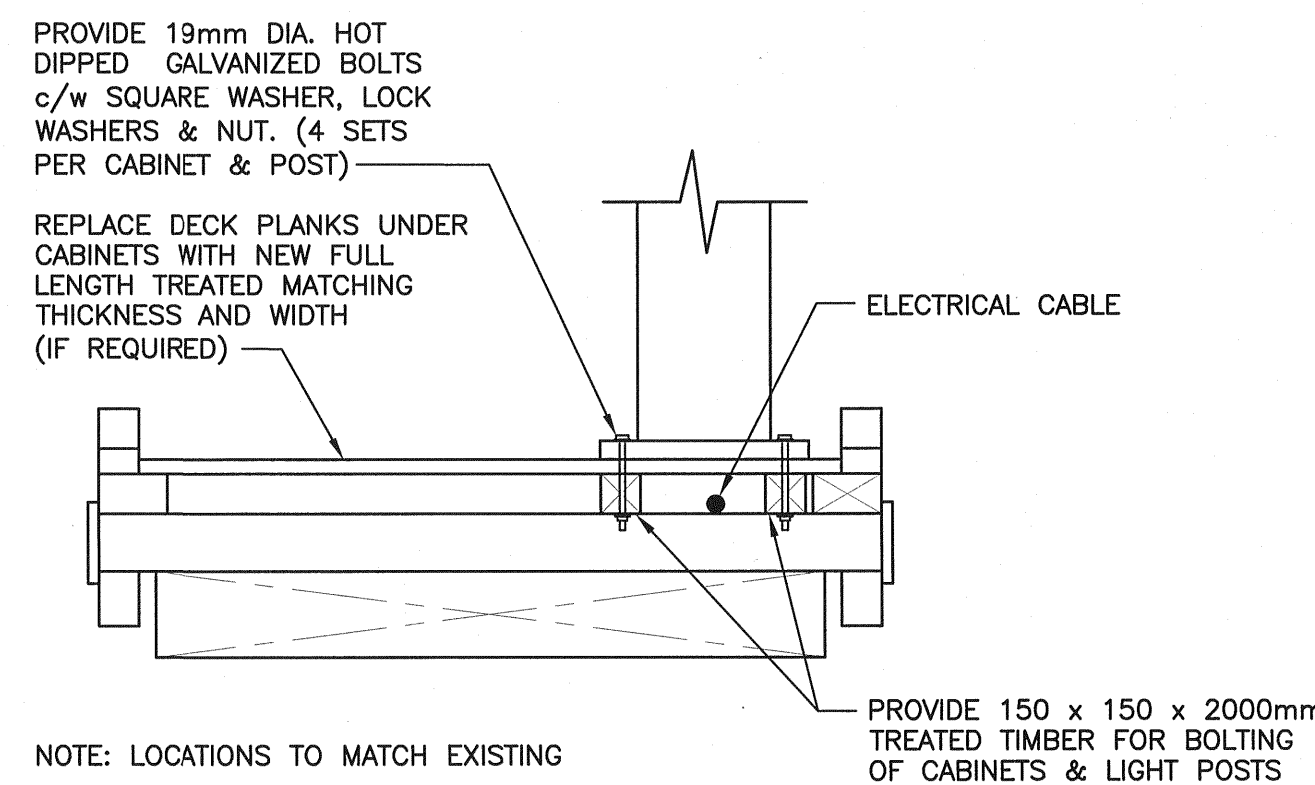
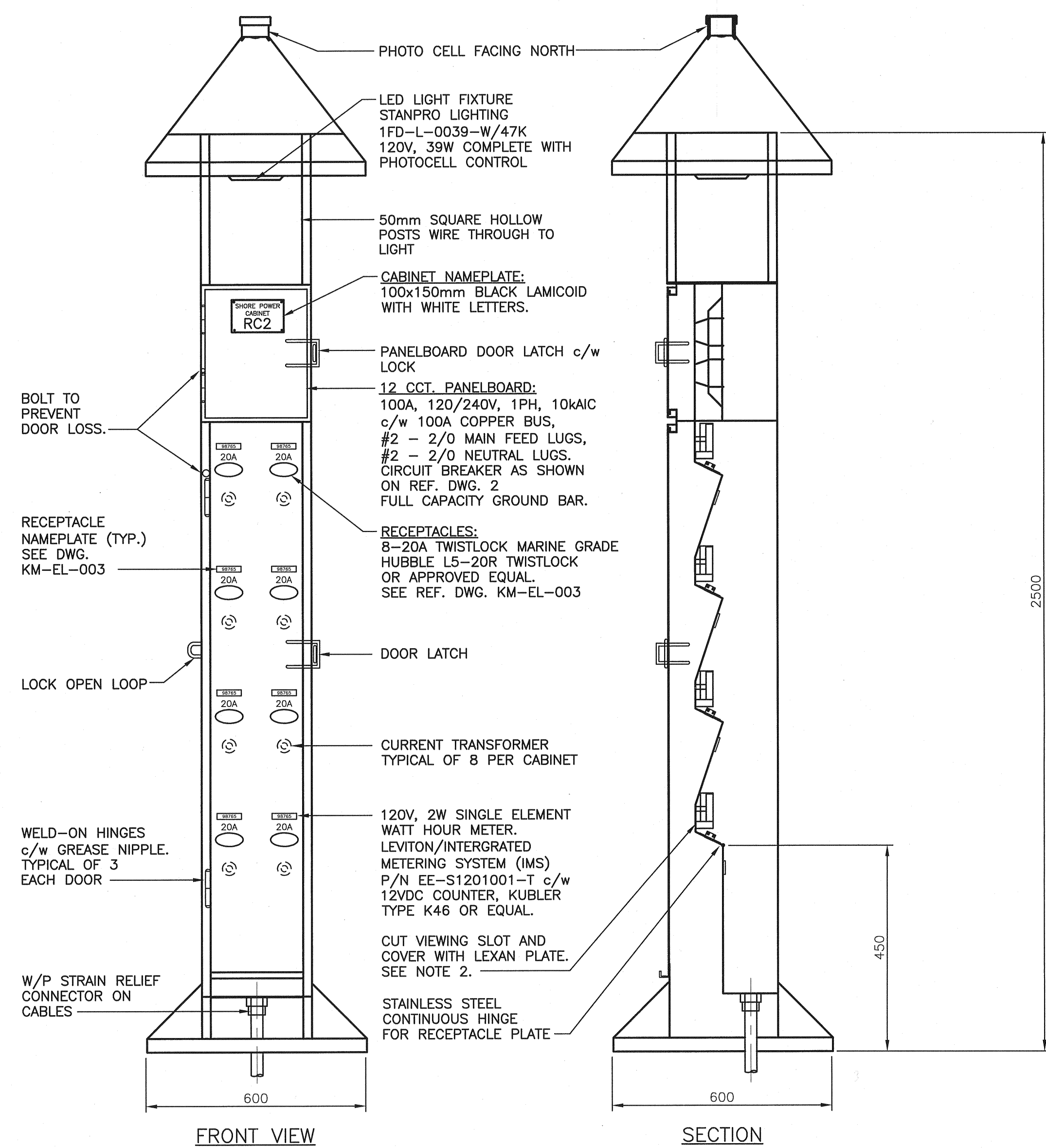
DESIGNED PJS	SCALE
DRAWN	DATE 12-FEB-2014
CHECKED DPB	DRAWING NUMBER KM-EL-003
RECOMMENDED	REVISION
APPROVED	2

DWG. NO.	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS
KM-EL-008	ALUMINUM KIOSK DETAILS				
KM-EL-007	ALUMINUM KIOSK DETAILS				
KM-EL-006	ALUMINUM KIOSK DETAILS				
KM-EL-005	ALUMINUM KIOSK DETAILS				
KM-EL-004	RECEPTACLE CAB & ENCLOSURE DET.		2	28JUL15	NOTE 2 REVISED.
KM-EL-001	PLAN DETAILS		1	17JUL15	ISSUED FOR CONSTRUCTION. DWG # WAS 100272-E3.
			0	20MAR14	ISSUED FOR CONSTRUCTION

Drawn by: [Name] Date: [Date] File: [Path]

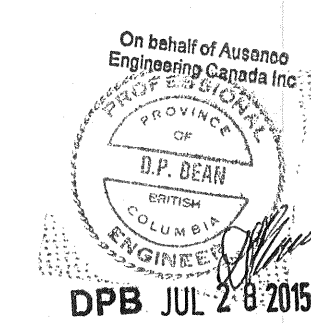
**NOTES**

1. RECEPTACLE CABINETS WILL BE SUPPLIED BY CONTRACTOR AS A COMPLETE ASSEMBLED UNIT. INCLUDED ELECTRICAL COMPONENTS: WATT HOUR METERS, LED LUMINAIRE, PANELBOARD, CIRCUIT BREAKERS AND RECEPTACLES.
2. CONTRACTOR TO INSTALL RECEPTACLE CABINETS IN SAME LOCATION AS EXISTING. REPLACE DECK PLANKS UNDER CABINETS WITH SAME IF REQUIRED.



**DETAIL - TYPICAL RECEPTACLE & LIGHT  
POST CABINET INSTALLATION ON FLOAT**

KM-EL-003 ELECT. DISTRIBUTION DIAG. (NOTE 1, 2)  
 KM-EL-001 PLAN DETAILS  
 DWG. NO. DRAWING REFERENCES NOTES



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SMALL CRAFT HARBOURS

**HARBOUR UPGRADE  
KITAMAAT VILLAGE  
RECEPTACLE CABINET  
DETAILS**

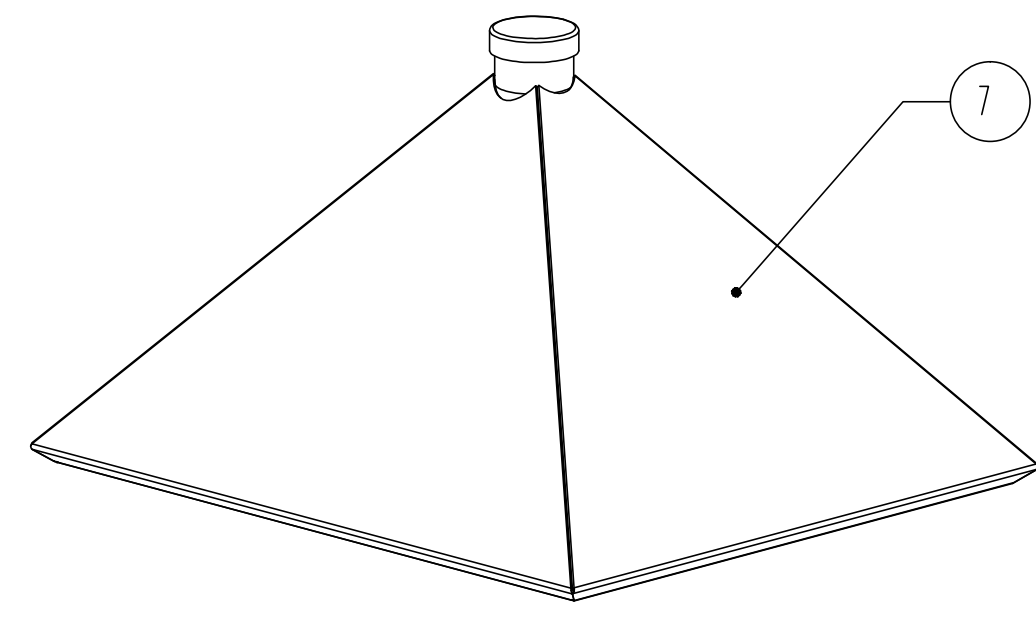
SCALE: \_\_\_\_\_  
DATE: 12-FEB-2014  
DRAWING NUMBER: **KM-EL-004**  
REVISION: 2

DWG. NO.	DRAWING REFERENCES	NO.	DATE	REVISIONS
KM-EL-003	ELECT. DISTRIBUTION DIAG.	2	28JUL15	NOTE 1 REVISED.
KM-EL-001	PLAN DETAILS	1	17JUL15	ISSUED FOR CONSTRUCTION. DWG # WAS 100272-E4.
		0	20MAR14	ISSUED FOR CONSTRUCTION

Jul 28 2015 - 9:45am S:\Proj\101262-01\CAD\00000000\dwg\KM-EL-004.dwg - laura.tan

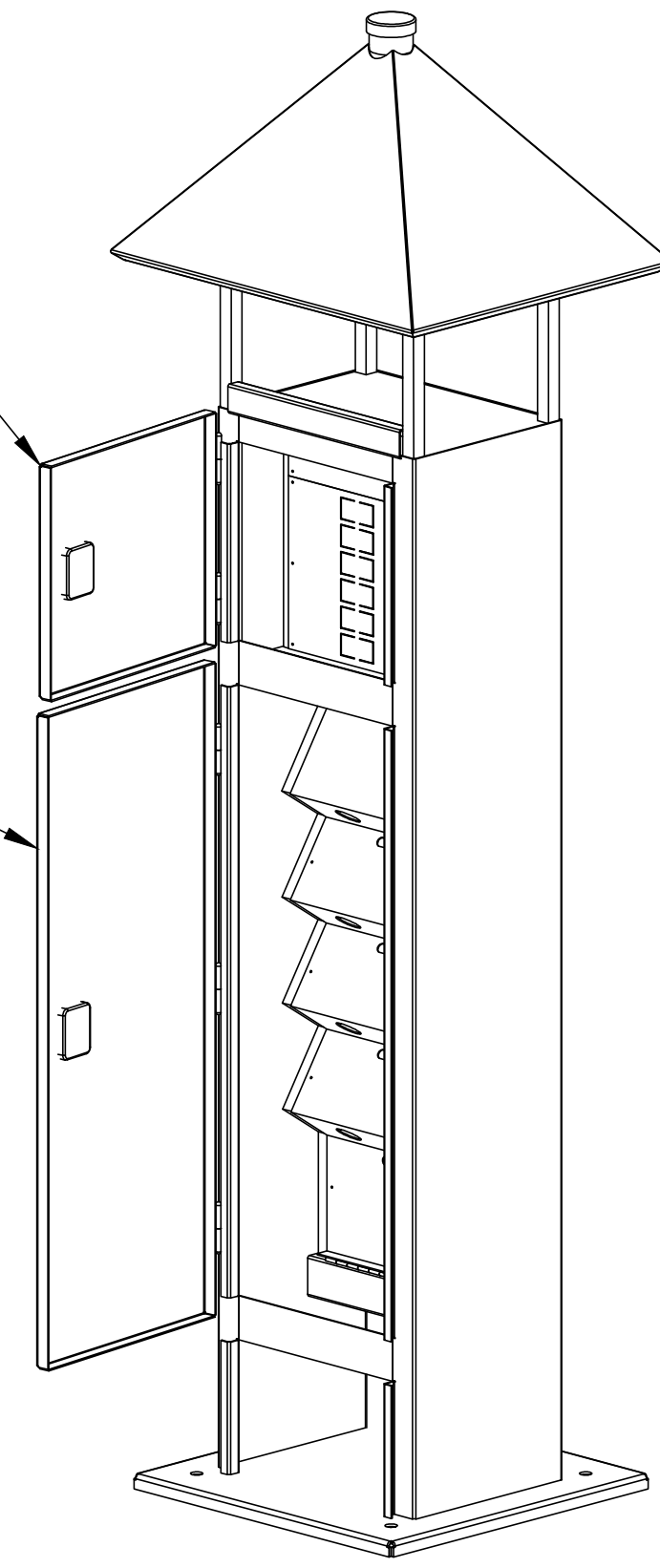
ITEM NO.	DWG No.	DESCRIPTION	Default/ QTY.
1	KM-EL-006	BASE PLATE	1
2	KM-EL-006	BOX SECTION ASSEMBLY	1
3	KM-EL-007	HINGED PLATE ASSEMBLY	1
4	KM-EL-006	LOWER DOOR ASSEMBLY	1
5	KM-EL-006	UPPER DOOR ASSEMBLY	1
6	KM-EL-006	BREAKER PANEL ASSEMBLY	1
7	KM-EL-008	ROOF CAP ASSEMBLY	1
8	KM-EL-008	ROOF SUPPORTS	4

**NOTE:**  
 CONTRACTOR SHALL PROVIDE AND INSTALL ALL ELECTRICAL DEVICES (SEE DWG. KM-EL-004) AND HAVE COMPLETED PANEL INSPECTED, ELECTRICALLY CERTIFIED AND LABELLED BY AN AUTHORIZED AGENCY.

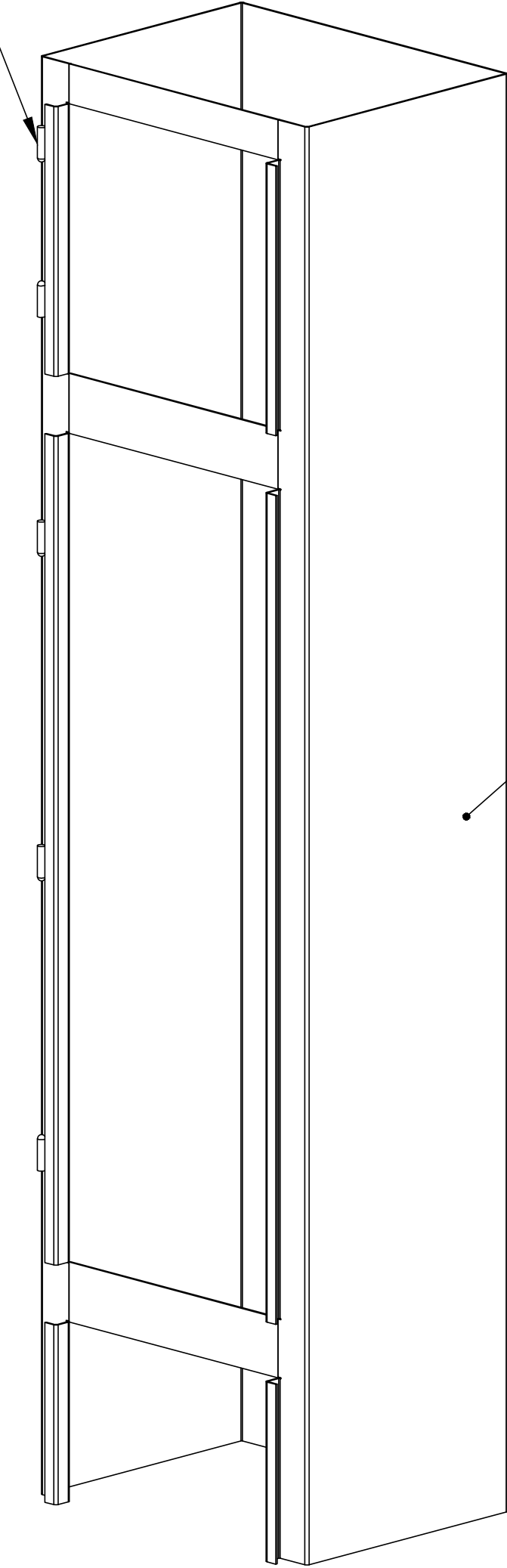


DOORS ARE TETHERED WITH 1/16" S.S. CABLE NOT TO OPEN BEYOND 100°

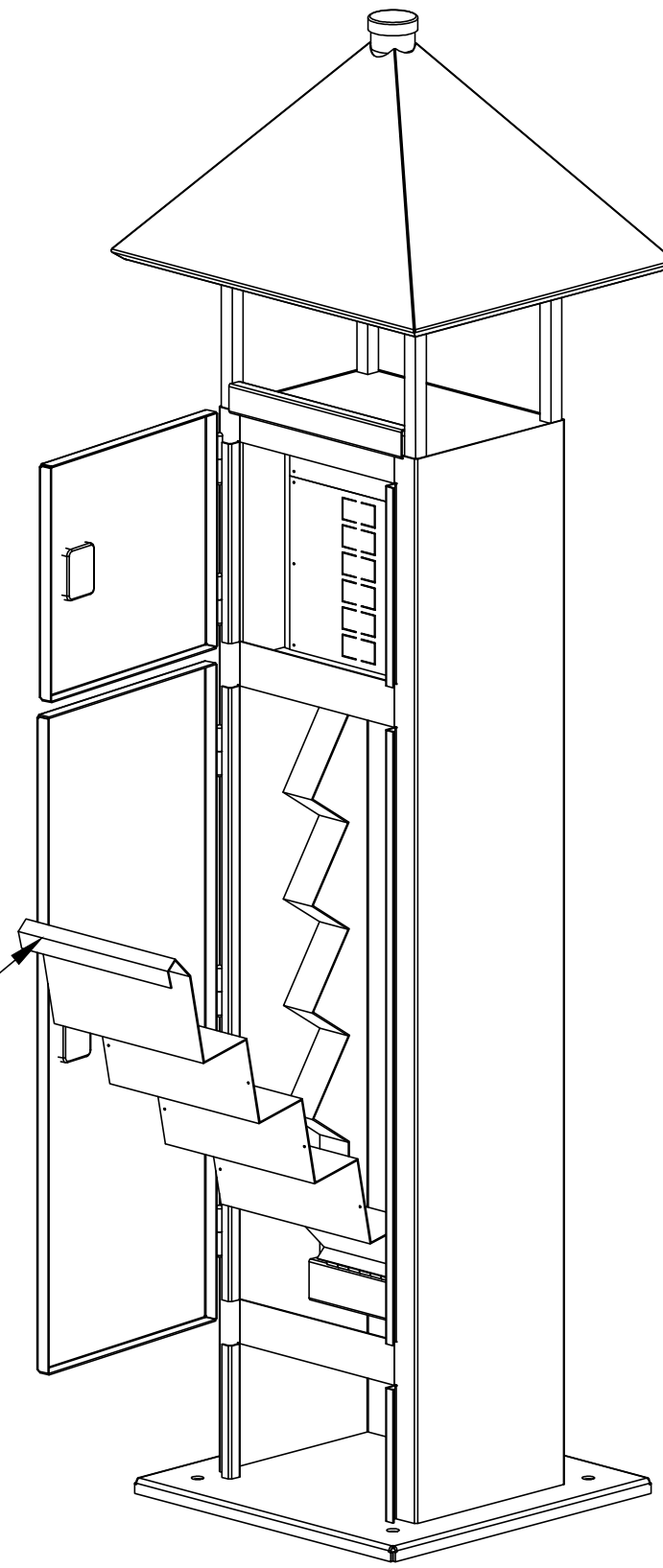
DOOR HINGES MAY BE LOCATED ON EITHER SIDE OF THE CABINET IN CONSIDERATION OF WIND DIRECTION AT THE SUBJECT HARBOUR. CONSULTATION WITH THE ENGINEER IS REQUIRED



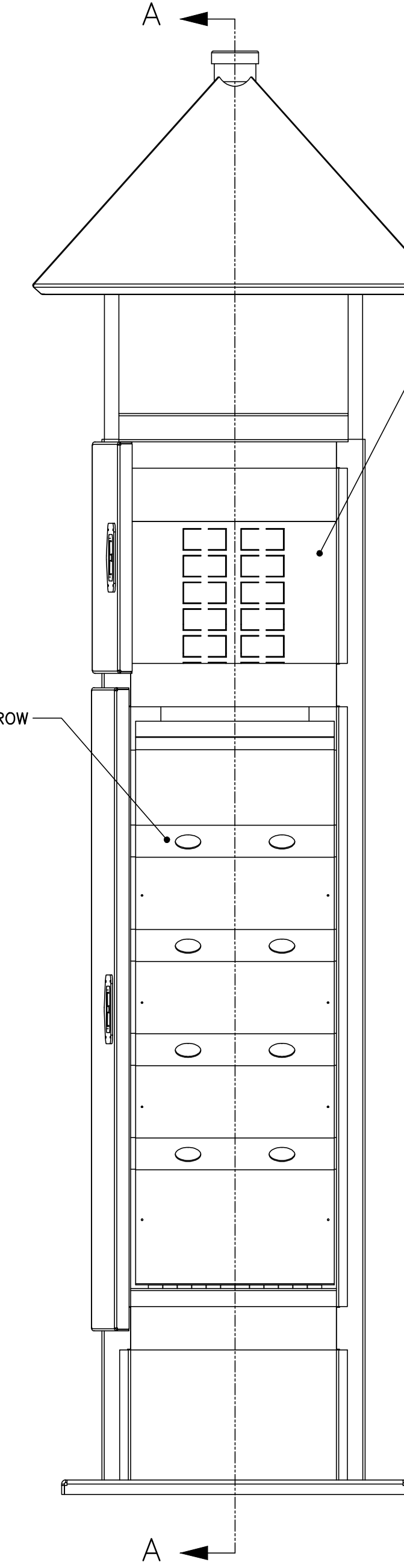
HINGES WITH GREASE NIPPLE (TYP.)



2

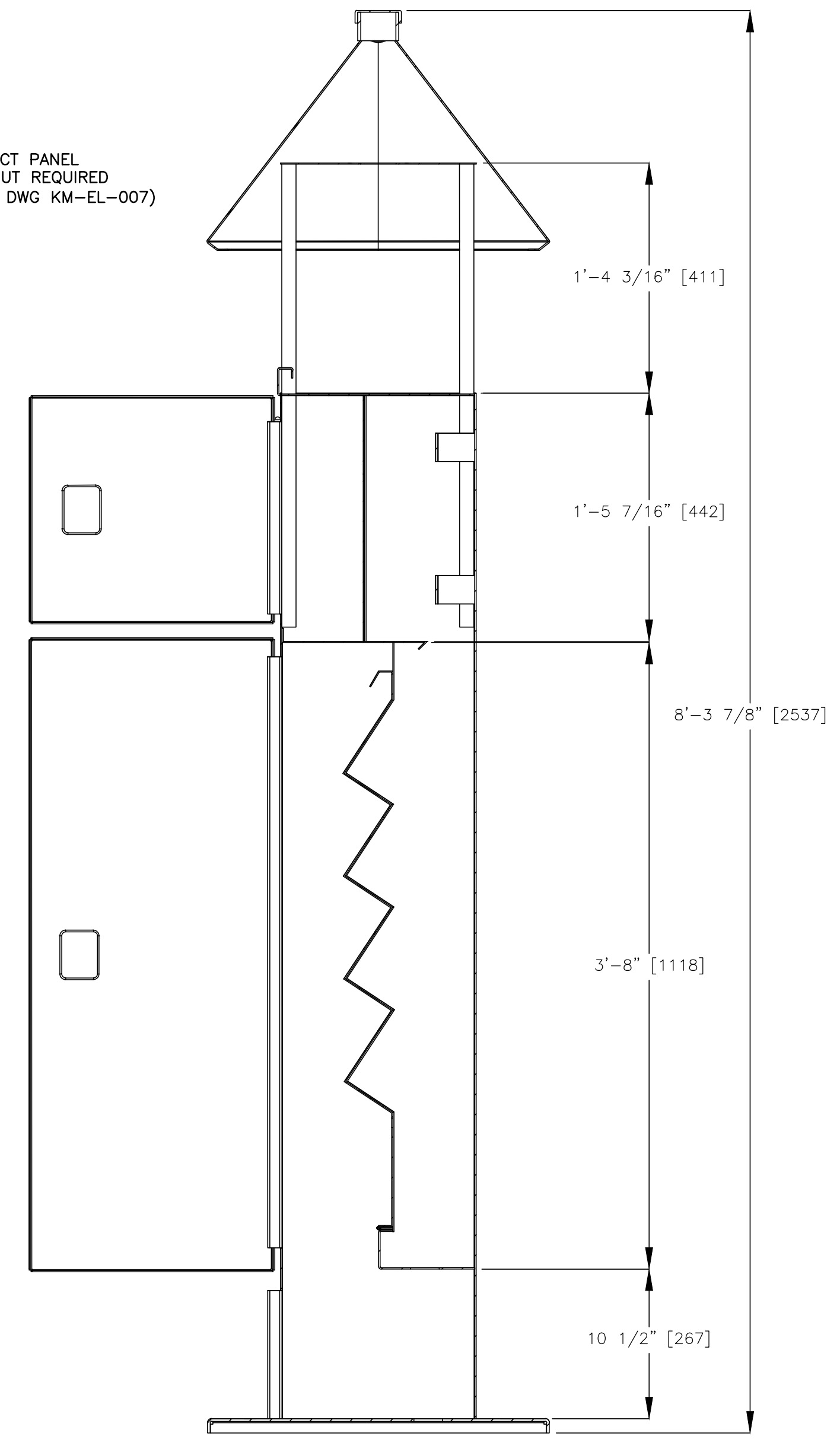


HINGED PLATE FOR RECEPTALS

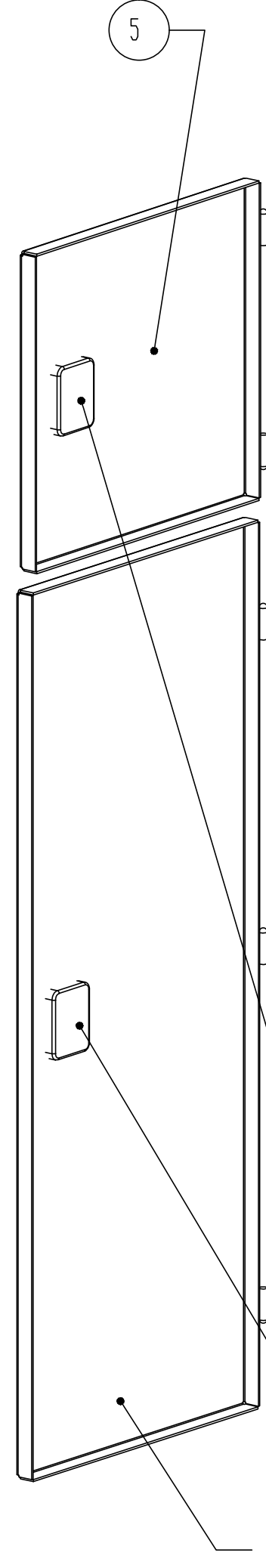


12 CCT PANEL CUTOUT REQUIRED (SEE DWG KM-EL-007)

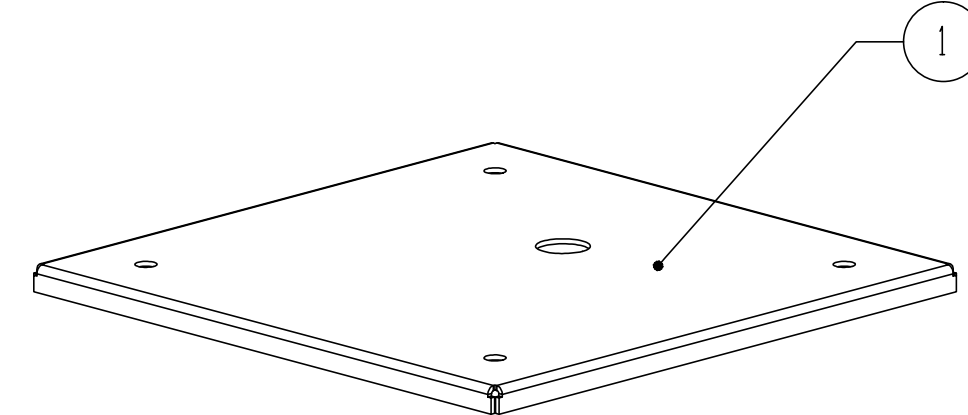
2 RECEPTALS PER ROW



SECTION A-A  
 SCALE 1 : 8



STAINLESS STEEL KEYPED ALIKE RECESSED T HANDLE LOCKS, LIP AND WEATHER STRIPPING ALL AROUND DOORS. TYP. ALL DOORS, INSTALL AS PER MANUFACTURERS INSTRUCTIONS.



1

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**HARBOUR UPGRADE  
 KITAMAAT VILLAGE  
 RECEPTACLE CABINET  
 DETAILS**

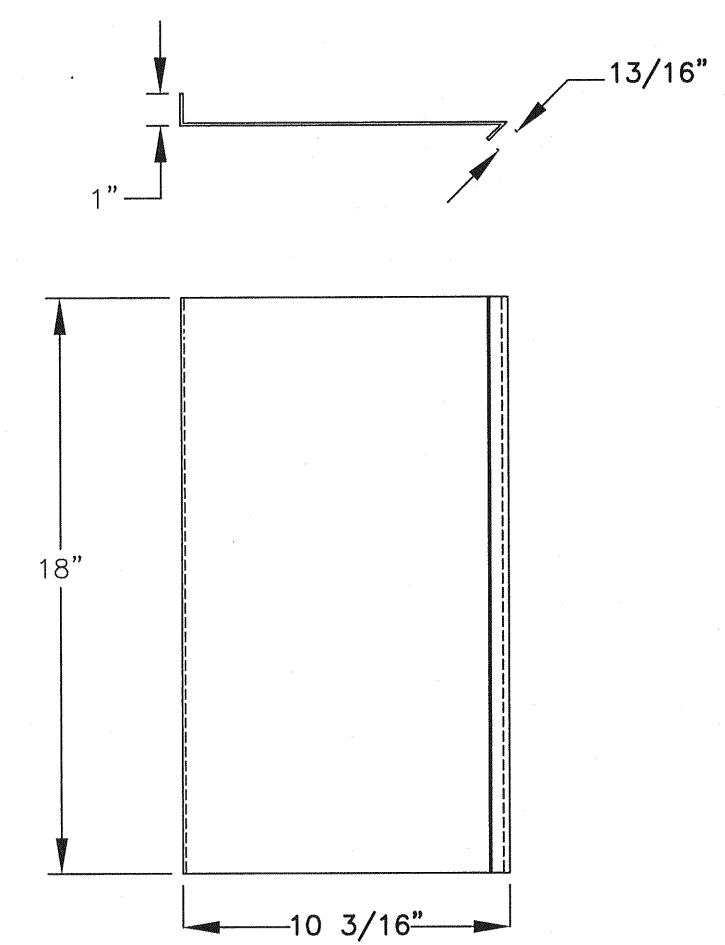
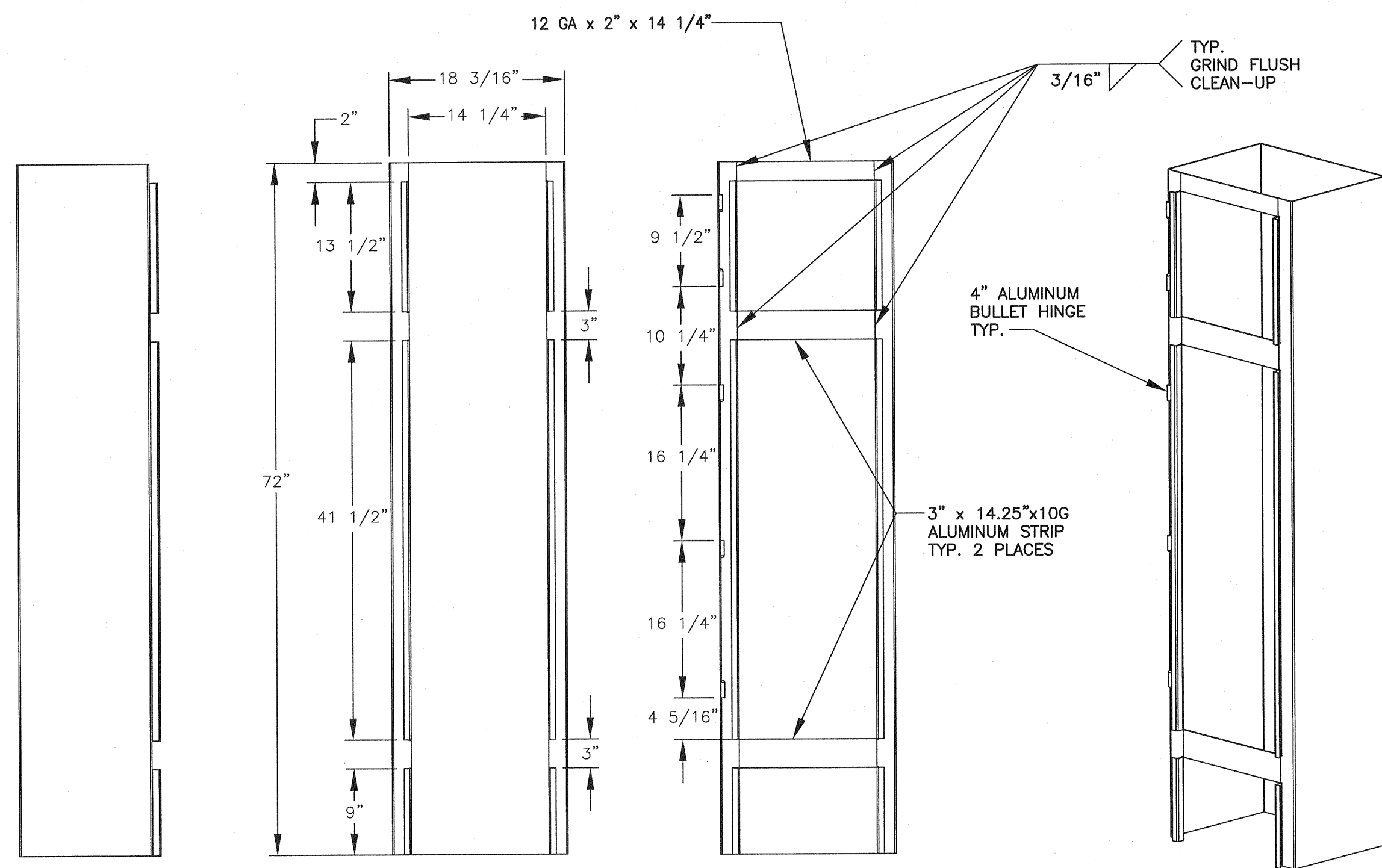
SCALE AS NOTED  
 DATE 12-FEB-2014  
 DRAWING NUMBER **KM-EL-005**  
 REVISION **2**

DWG. NO.	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS
KM-EL-008	ALUMINUM KIOSK DETAILS				
KM-EL-007	ALUMINUM KIOSK DETAILS		2	28JUL15	NOTE REVISED.
KM-EL-006	ALUMINUM KIOSK DETAILS		1	17JUL15	ISSUED FOR FABRICATION. DWG # WAS 100272-E5.
KM-EL-004	RECEPTACLE CABINET DETAILS		0	20MAR14	ISSUED FOR CONSTRUCTION

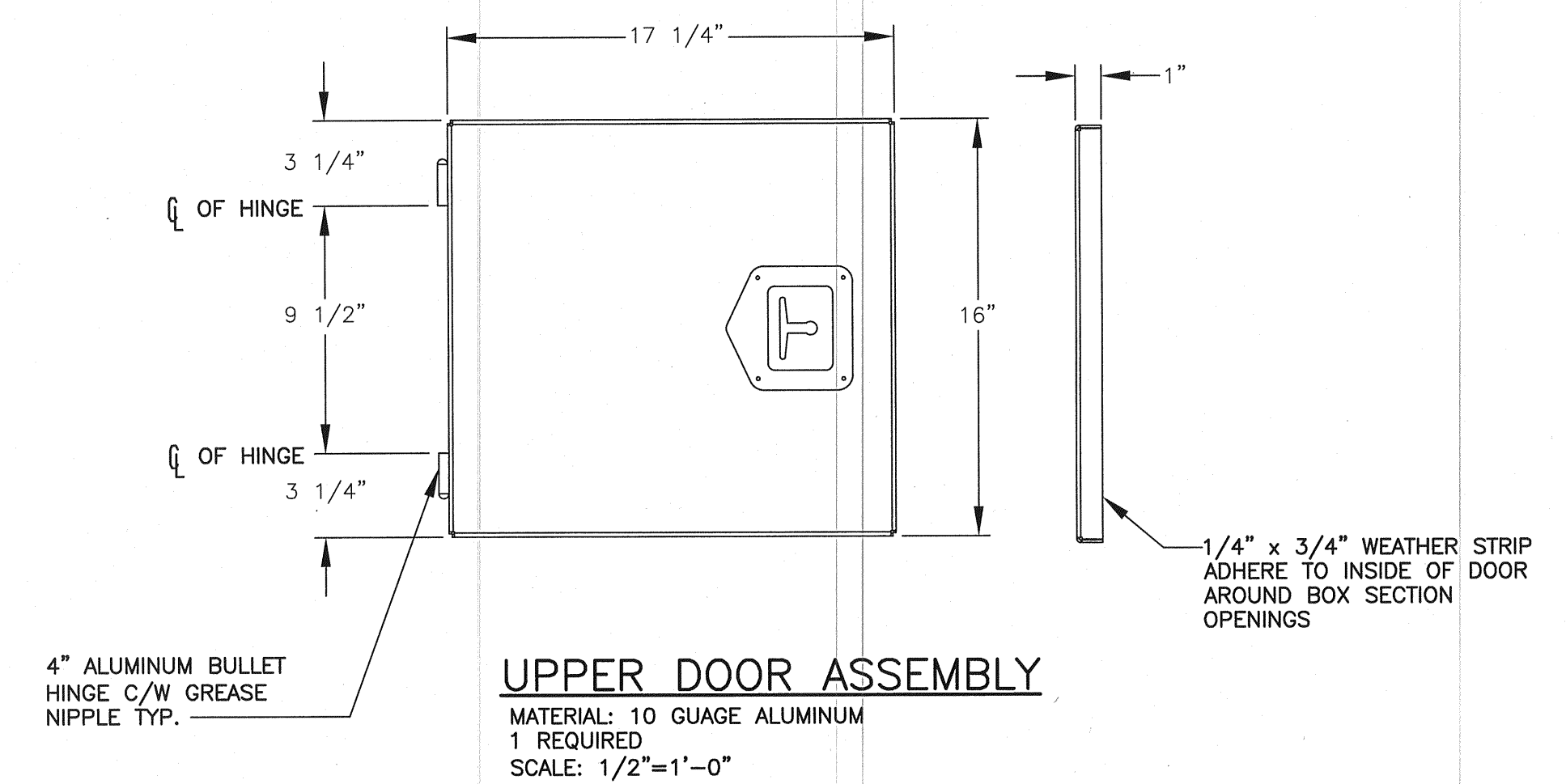
Plotted by Laura Ian, Tue Jul 15 10:44am 2014. File: \\s:\projects\101252-01\CAD\0000\000e\000\KM-EL-005.DWG. Scale: 1:8

Jul 28, 2015 - 9:44am S:\Proj\101252-01\CAD\0000\000e\000\KM-EL-005.DWG - laura.ian

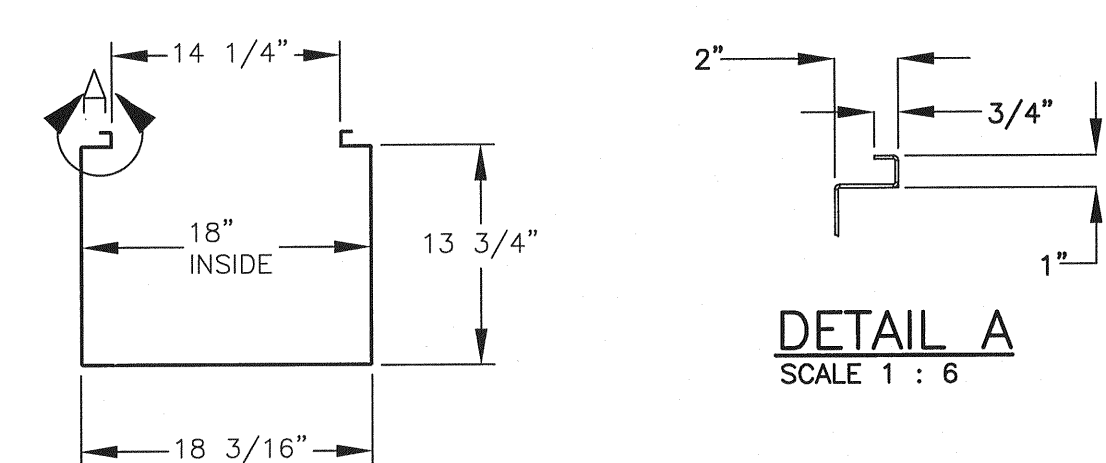




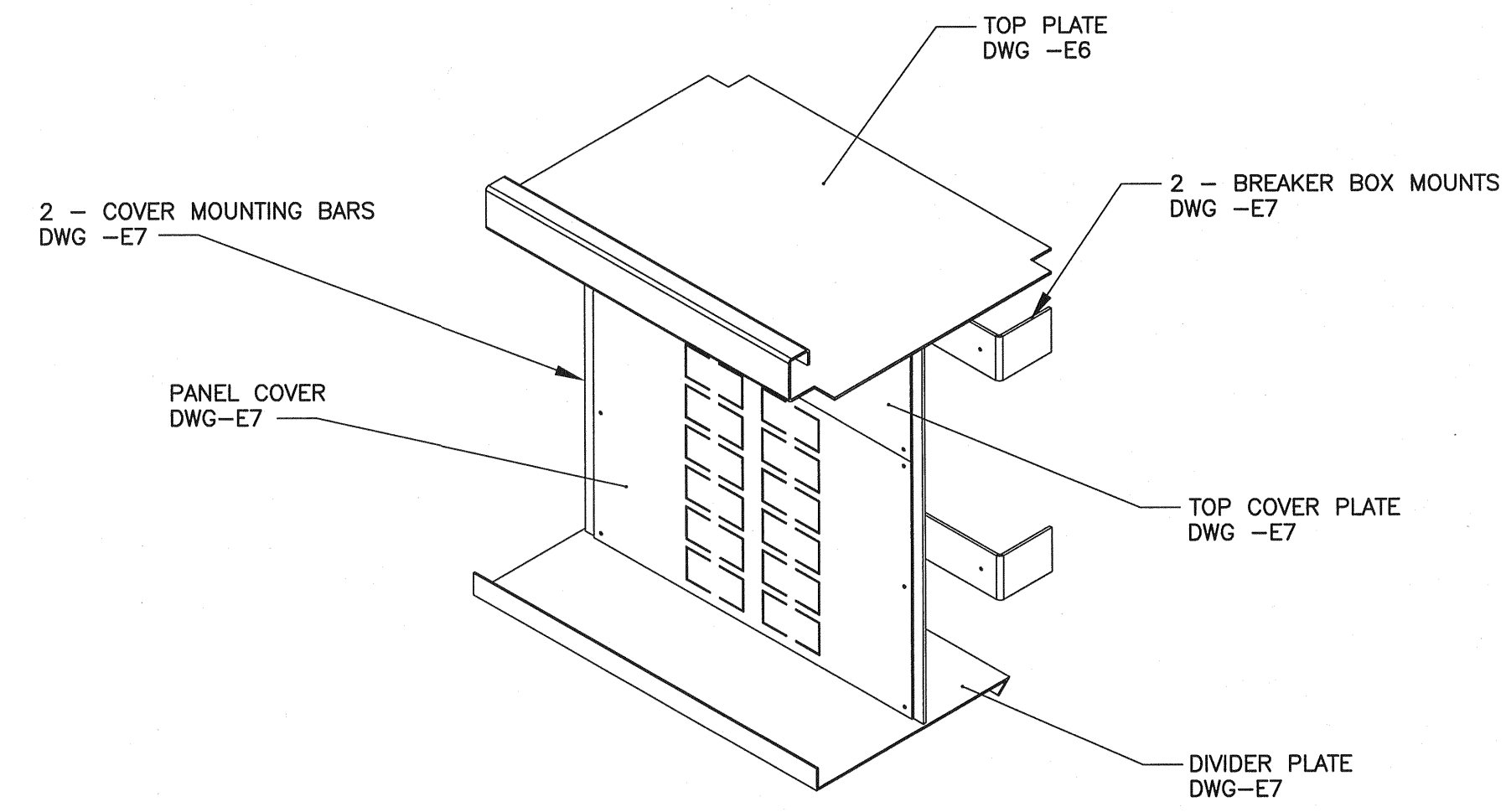
**DIVIDER PLATE**  
 MATERIAL: 12 GAUGE ALUMINUM  
 1 REQUIRED  
 SCALE: 1/2"=1'-0"



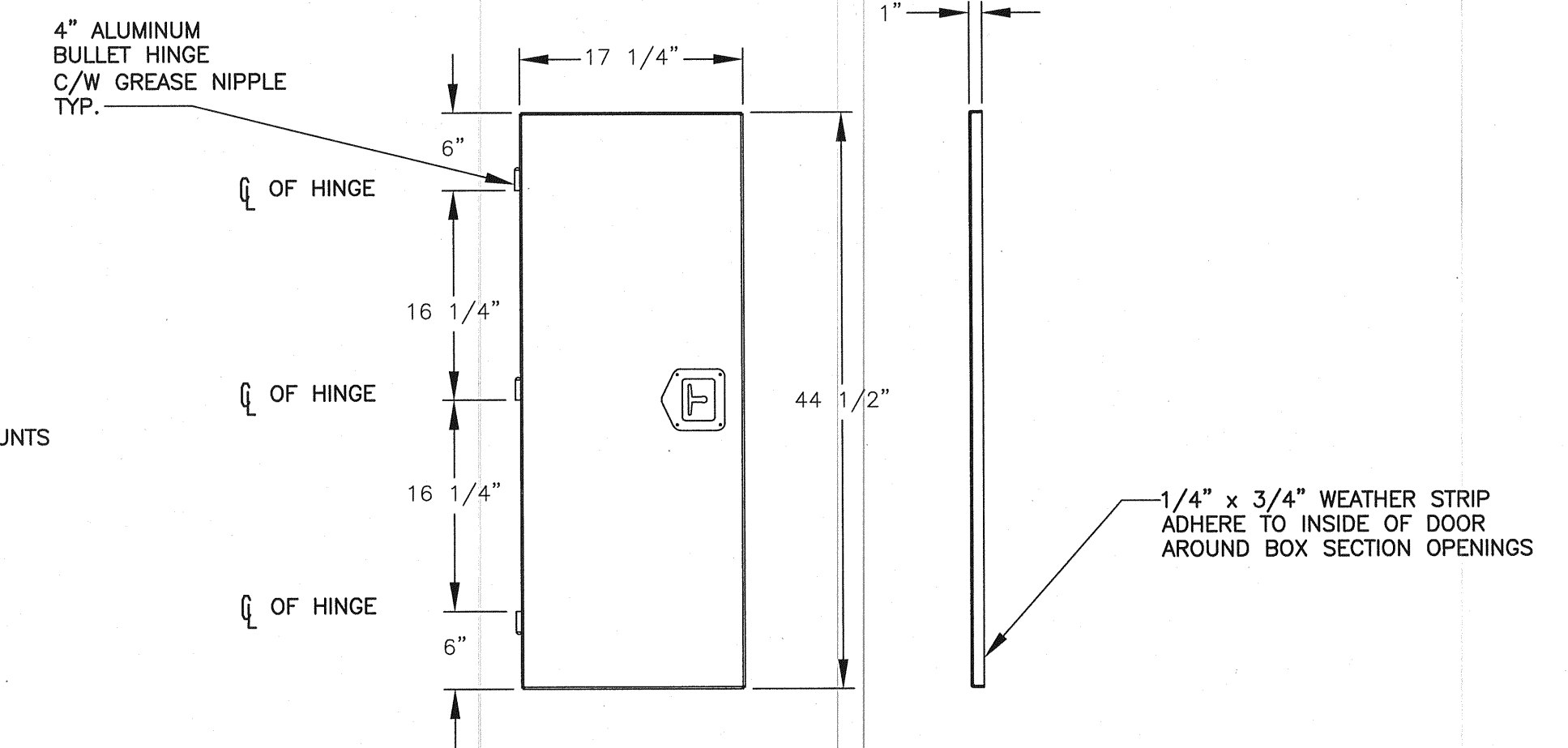
**UPPER DOOR ASSEMBLY**  
 MATERIAL: 10 GAUGE ALUMINUM  
 1 REQUIRED  
 SCALE: 1/2"=1'-0"



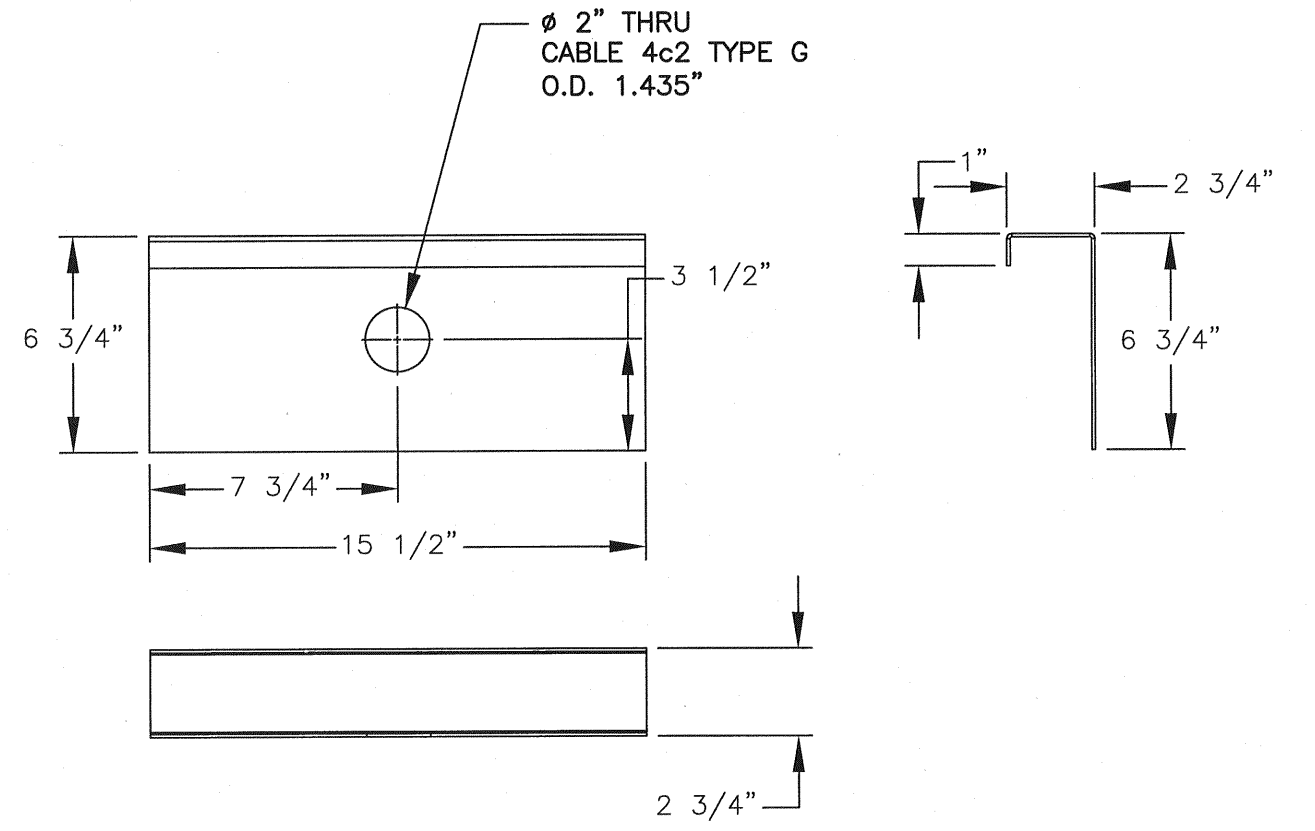
**BOX SECTION ASSEMBLY**  
 MATERIAL: 10 GAUGE ALUMINUM  
 1 REQUIRED  
 SCALE: 1"=1'-0"



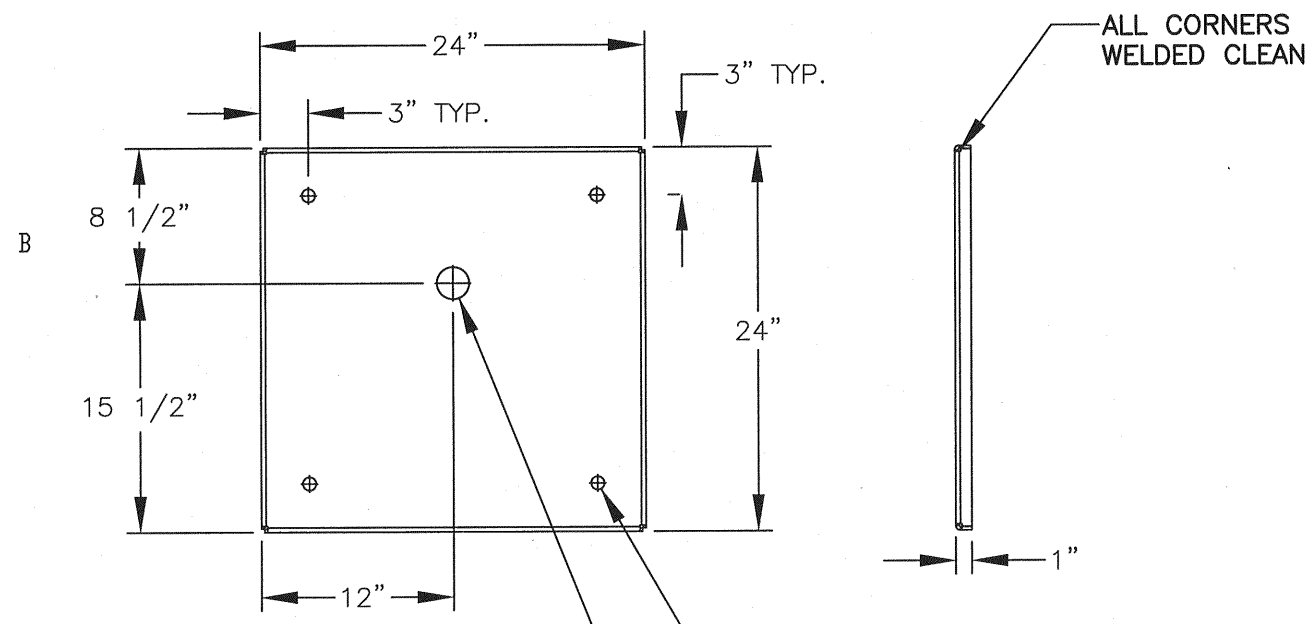
**BREAKER PANEL ASSEMBLY**



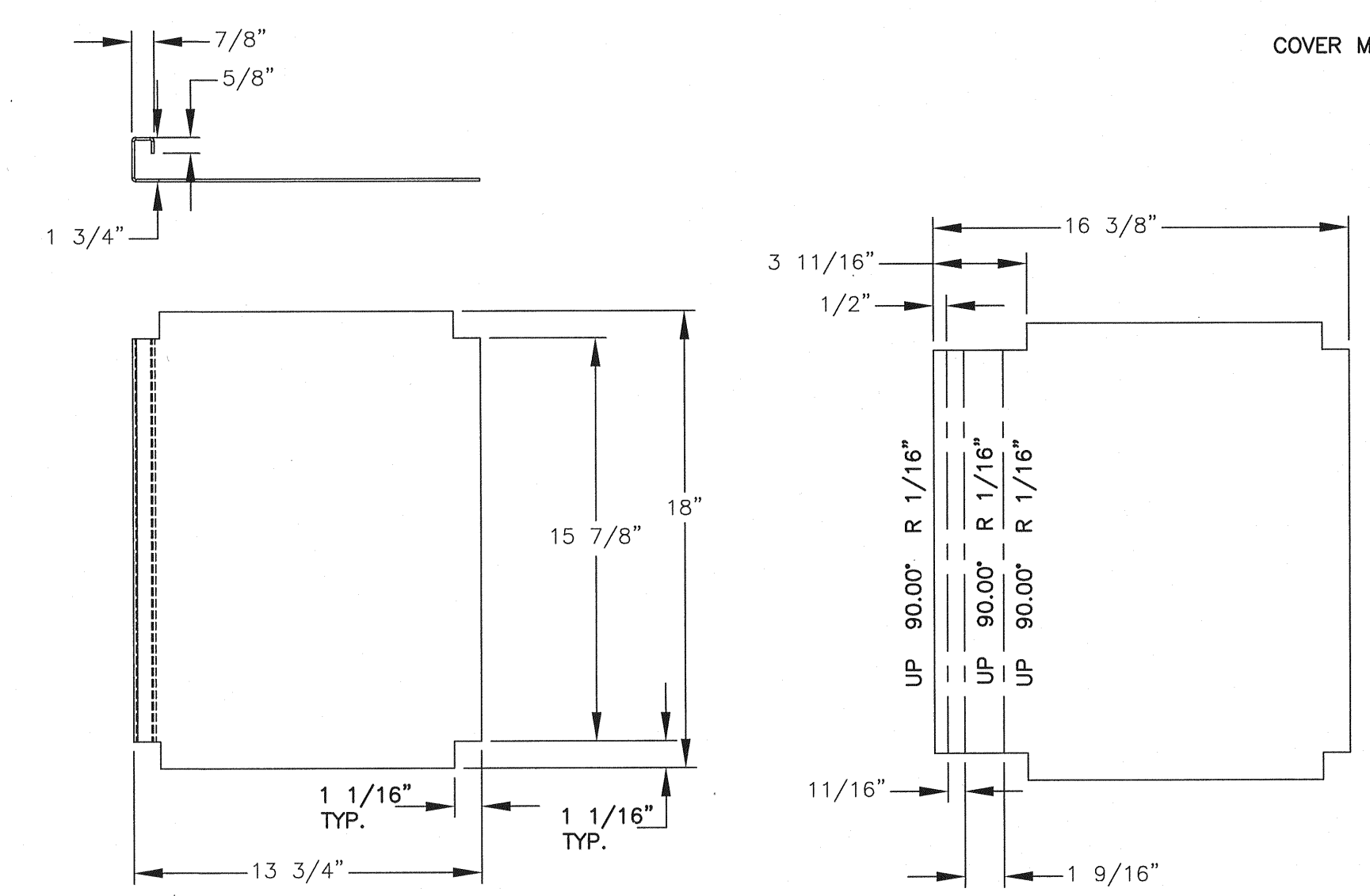
**LOWER DOOR ASSEMBLY**  
 MATERIAL: 10 GAUGE ALUMINUM  
 1 REQUIRED  
 SCALE: 1"=1'-0"



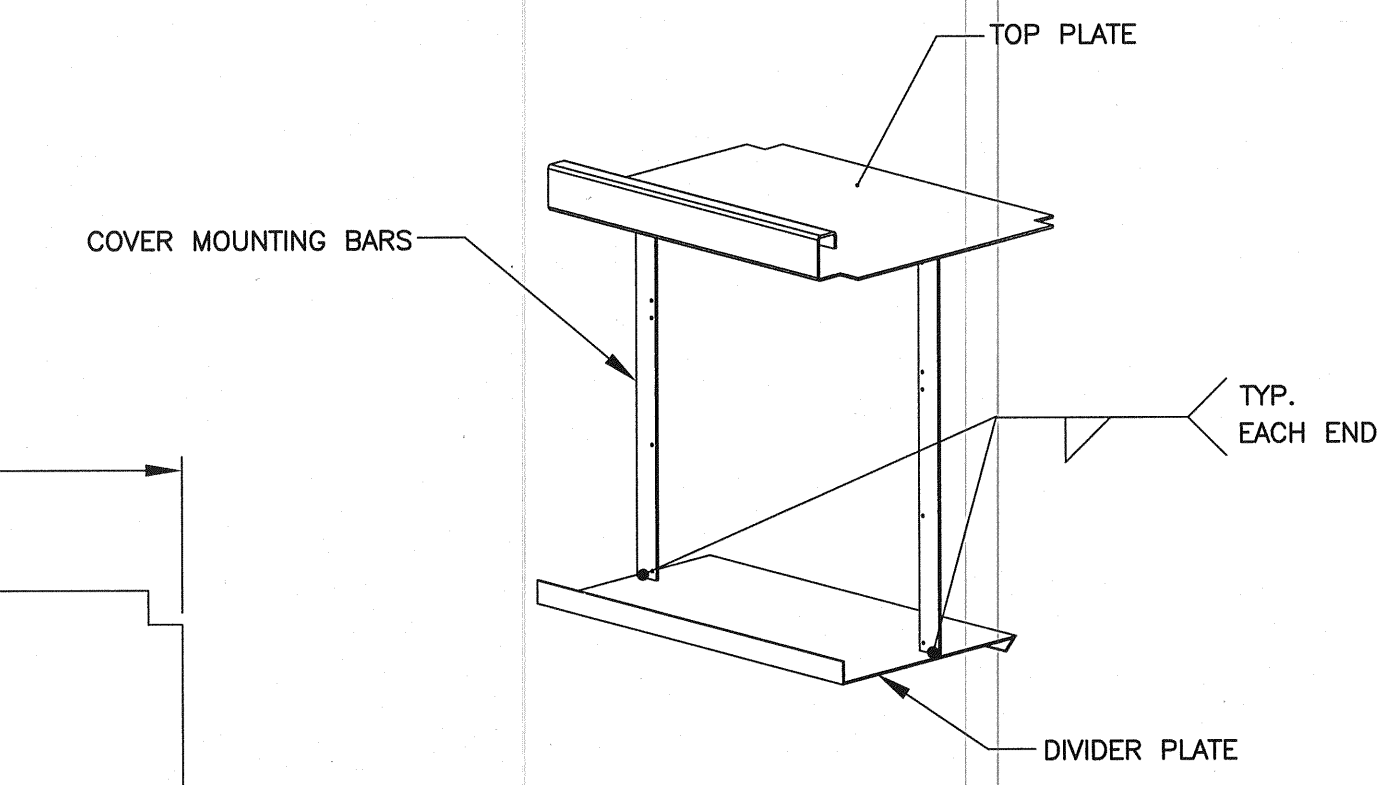
**MOUNTING PLATE**  
 MATERIAL: 10 GAUGE ALUMINUM  
 1 REQUIRED  
 SCALE: 1/2"=1'-0"



**BASE PLATE**  
 MATERIAL: ALUMINUM 3/16" PLATE  
 1 REQUIRED  
 SCALE: 1"=1'-0"



**TOP PLATE**  
 MATERIAL: 10 GAUGE ALUMINUM  
 1 REQUIRED  
 SCALE: 1/2"=1'-0"



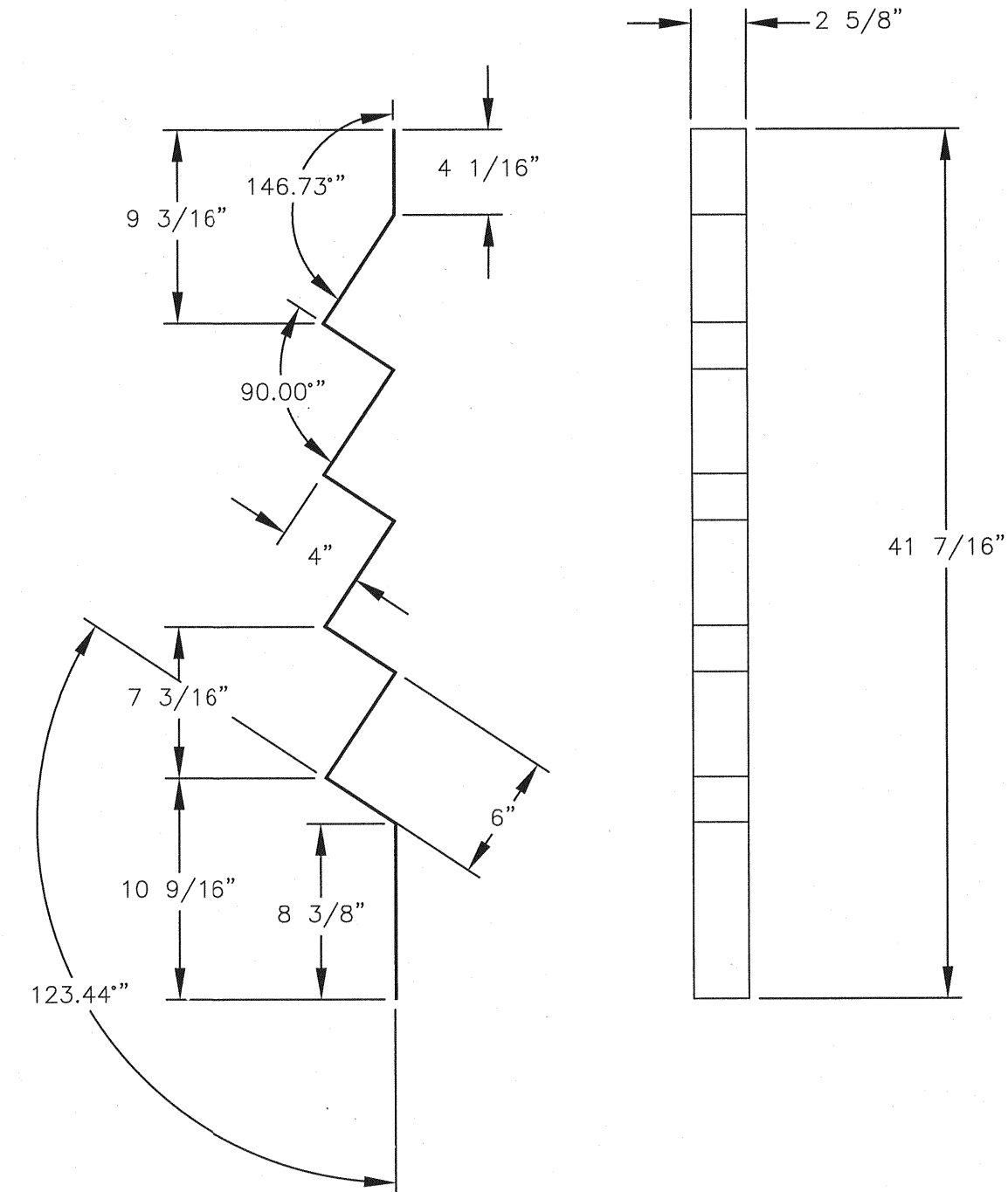
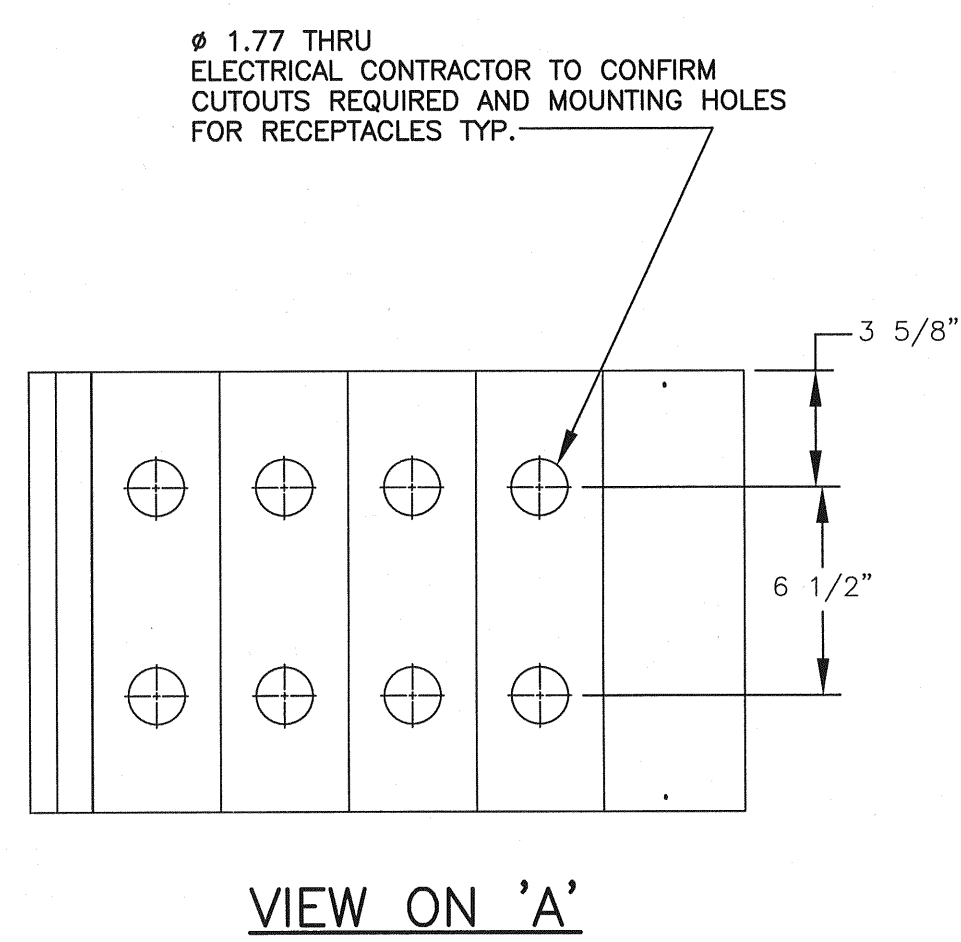
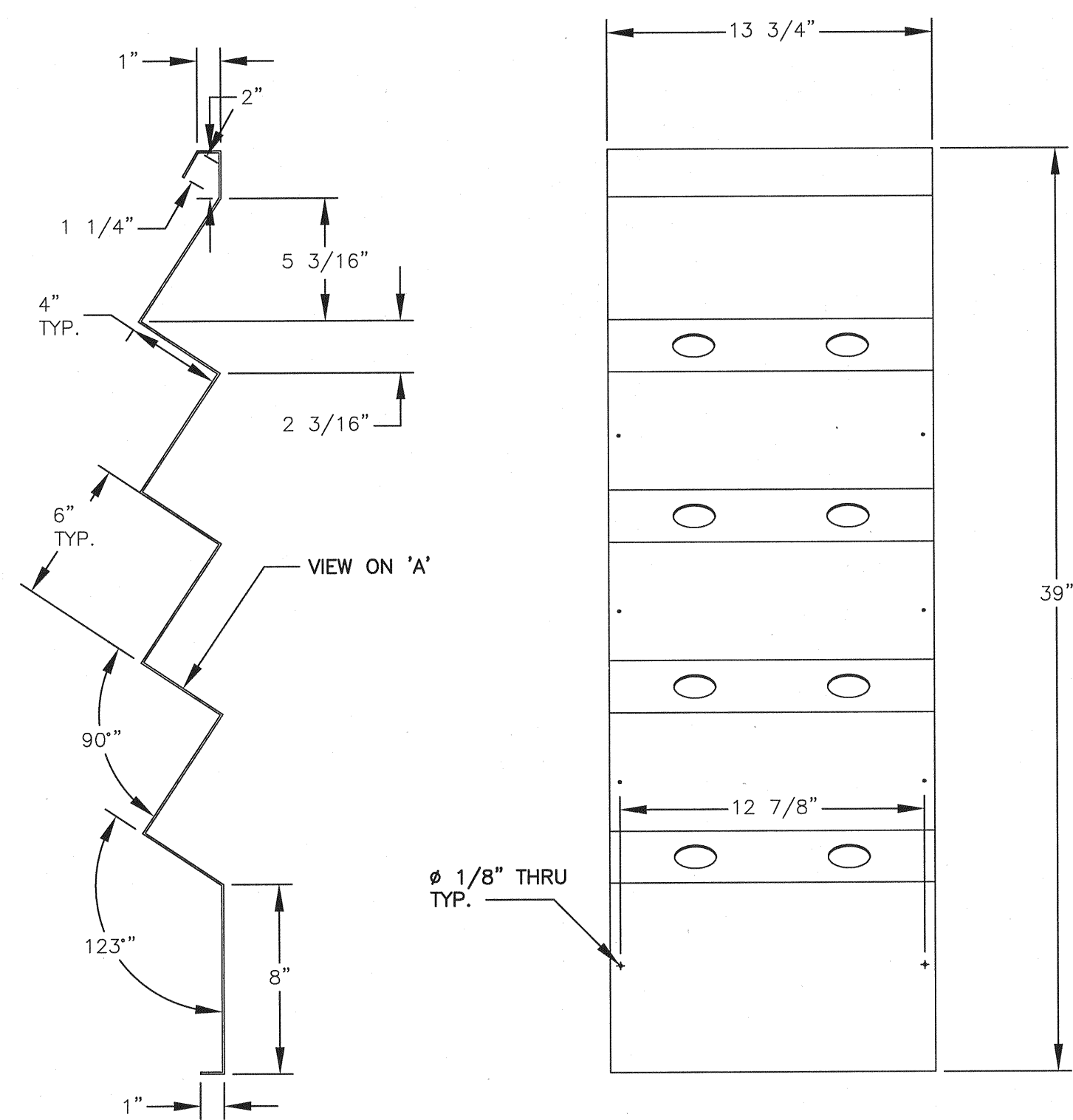
**BREAKER PANEL ASSEMBLY LAYOUT**

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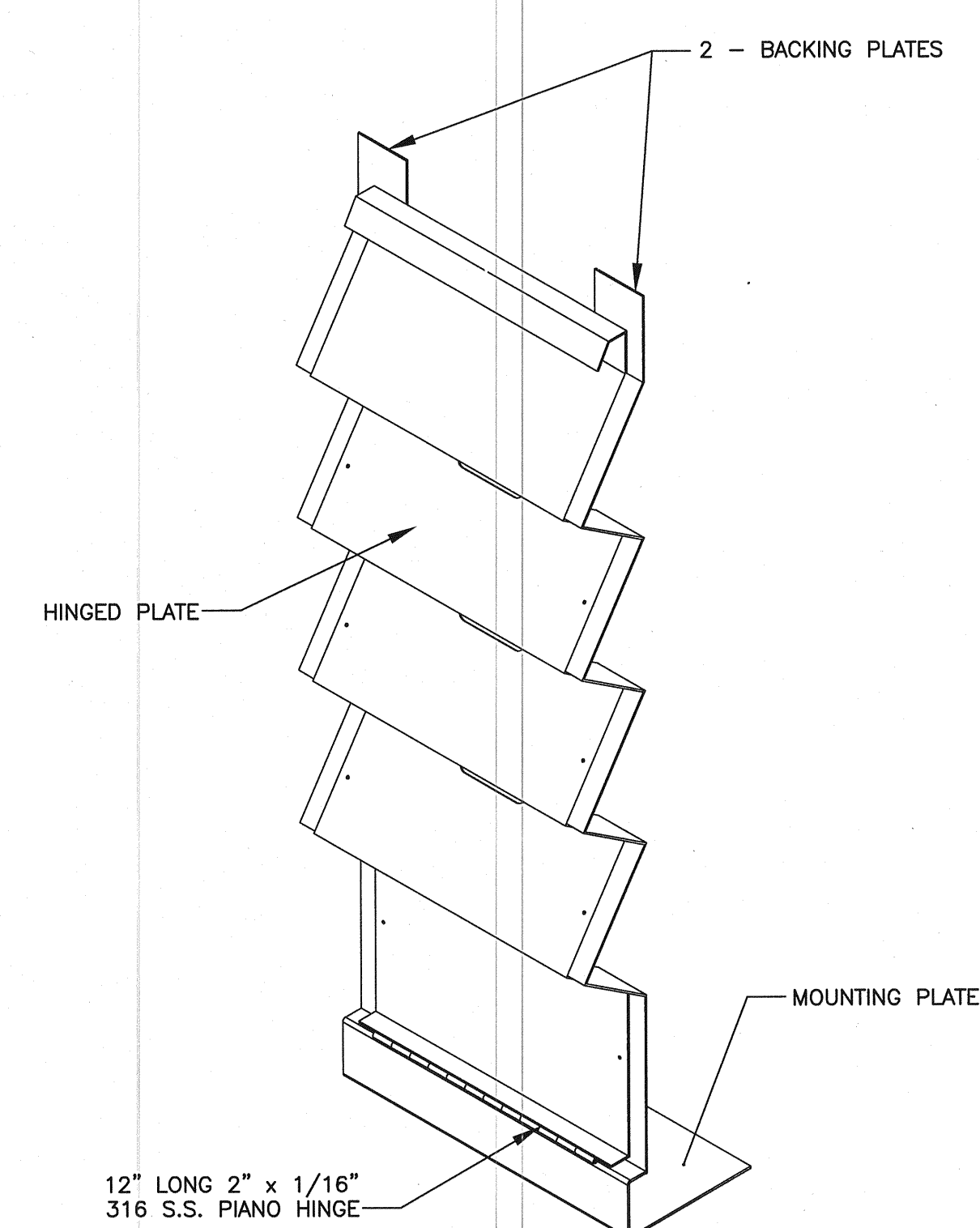
**HARBOUR UPGRADE  
 KITAMAAT VILLAGE  
 ALUMINUM KIOSK  
 DETAILS**

DESIGNED DFO	SCALE AS NOTED
DRAWN ---	DATE 14-FEB-2014
CHECKED PJS	DRAWING NUMBER KM-EL-006
RECOMMENDED	REVISION 1
APPROVED	
APPROVED	

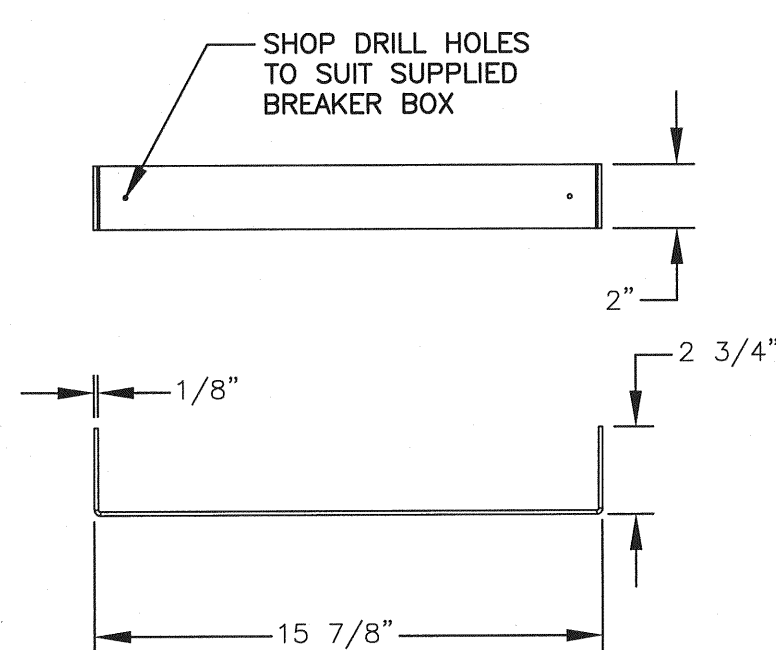
DWG. NO.	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS
			1	17JUL15	ISSUED FOR FABRICATION. DWG # WAS 100272-E6.
			0	20MAR14	ISSUED FOR CONSTRUCTION



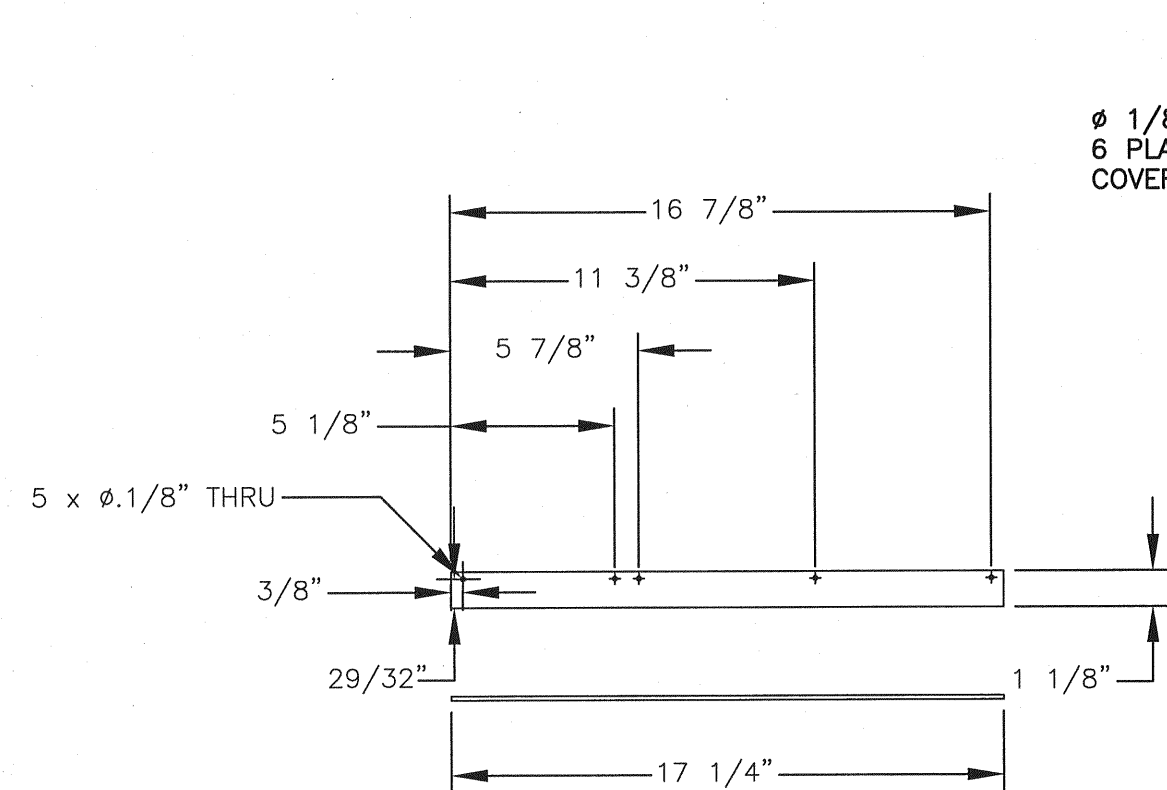
**BACKING PLATE**  
MATERIAL: 12" GAUGE ALUMINUM  
2 REQUIRED  
SCALE: 1/2"=1'-0"



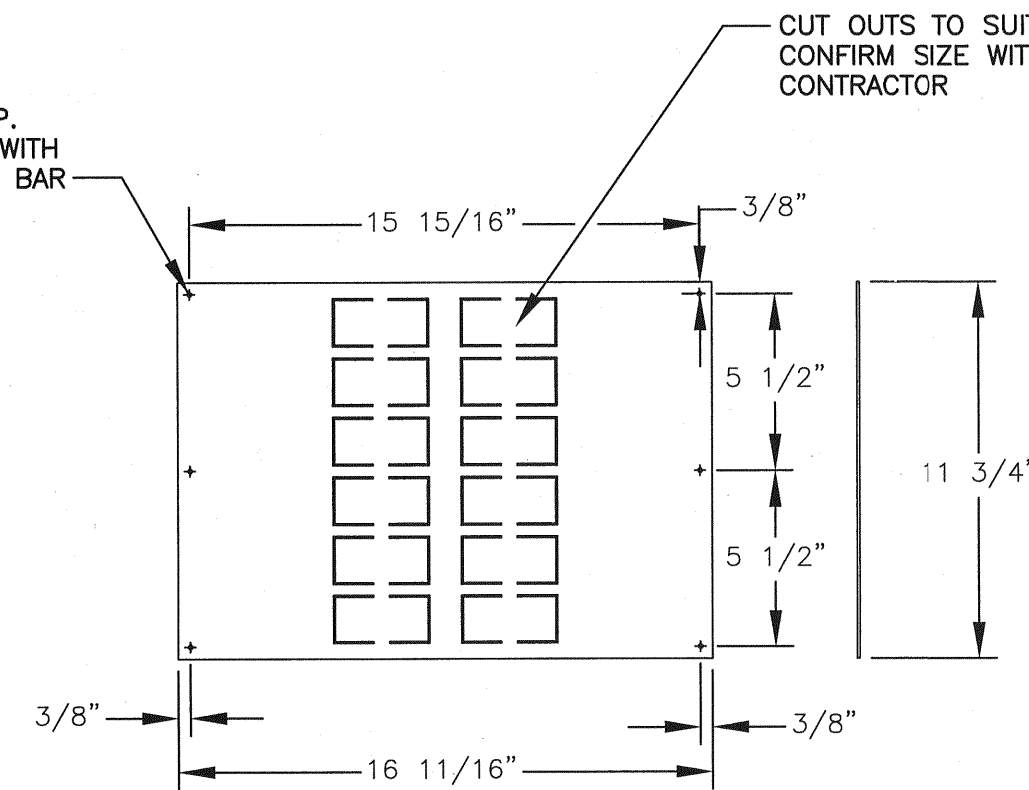
**HINGE PLATE ASSEMBLY**



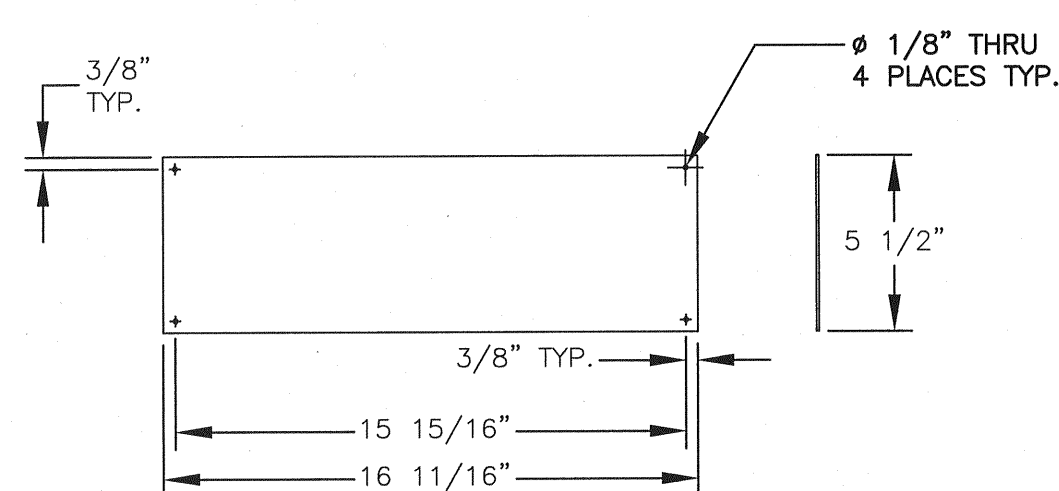
**BREAKER BOX MOUNT**  
MATERIAL: 1/8" ALUMINUM PLATE  
2 REQUIRED  
SCALE: 1/2"=1'-0"



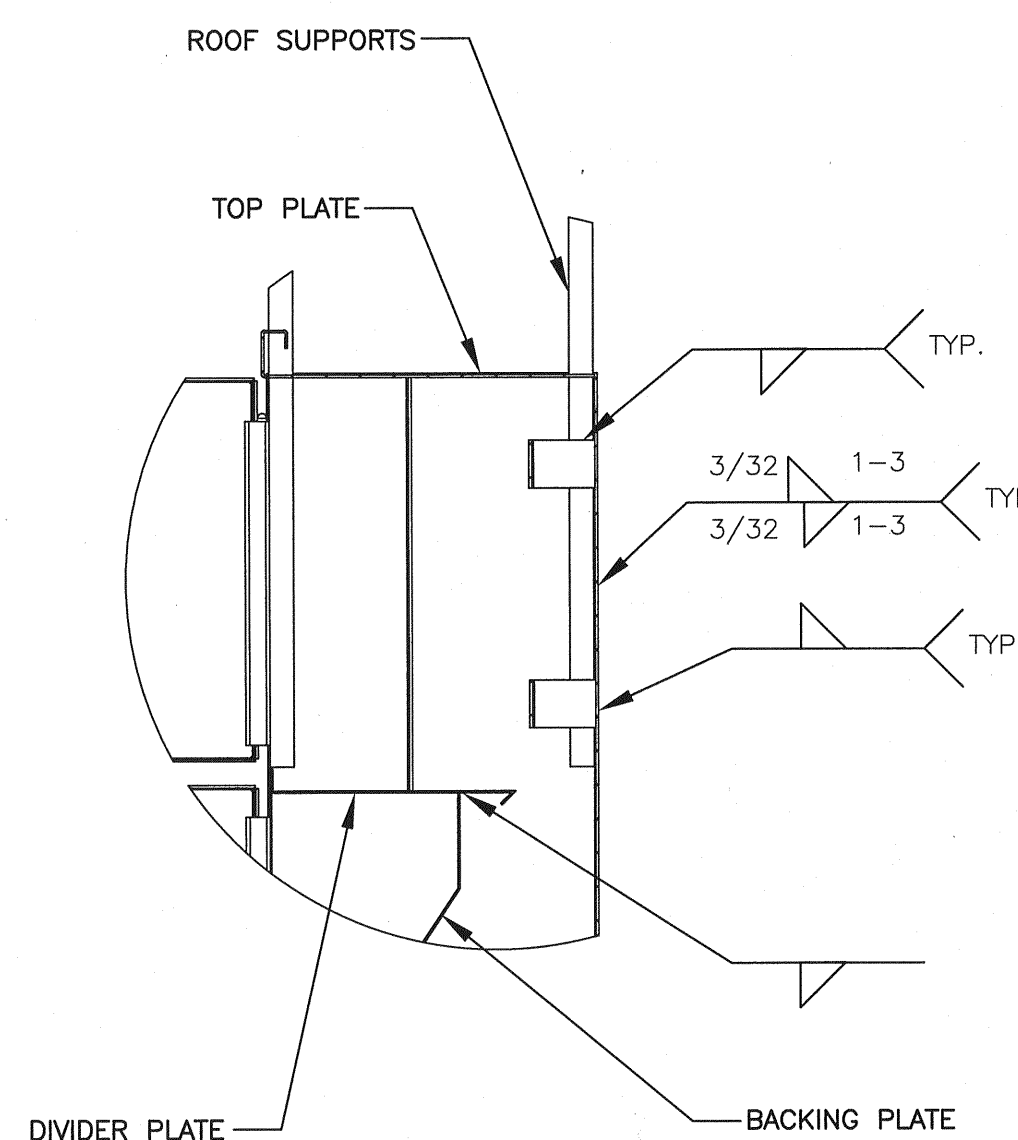
**COVER MOUNTING BARS**  
MATERIAL: 1/8" ALUMINUM PLATE  
2 REQUIRED  
SCALE: 1/2"=1'-0"



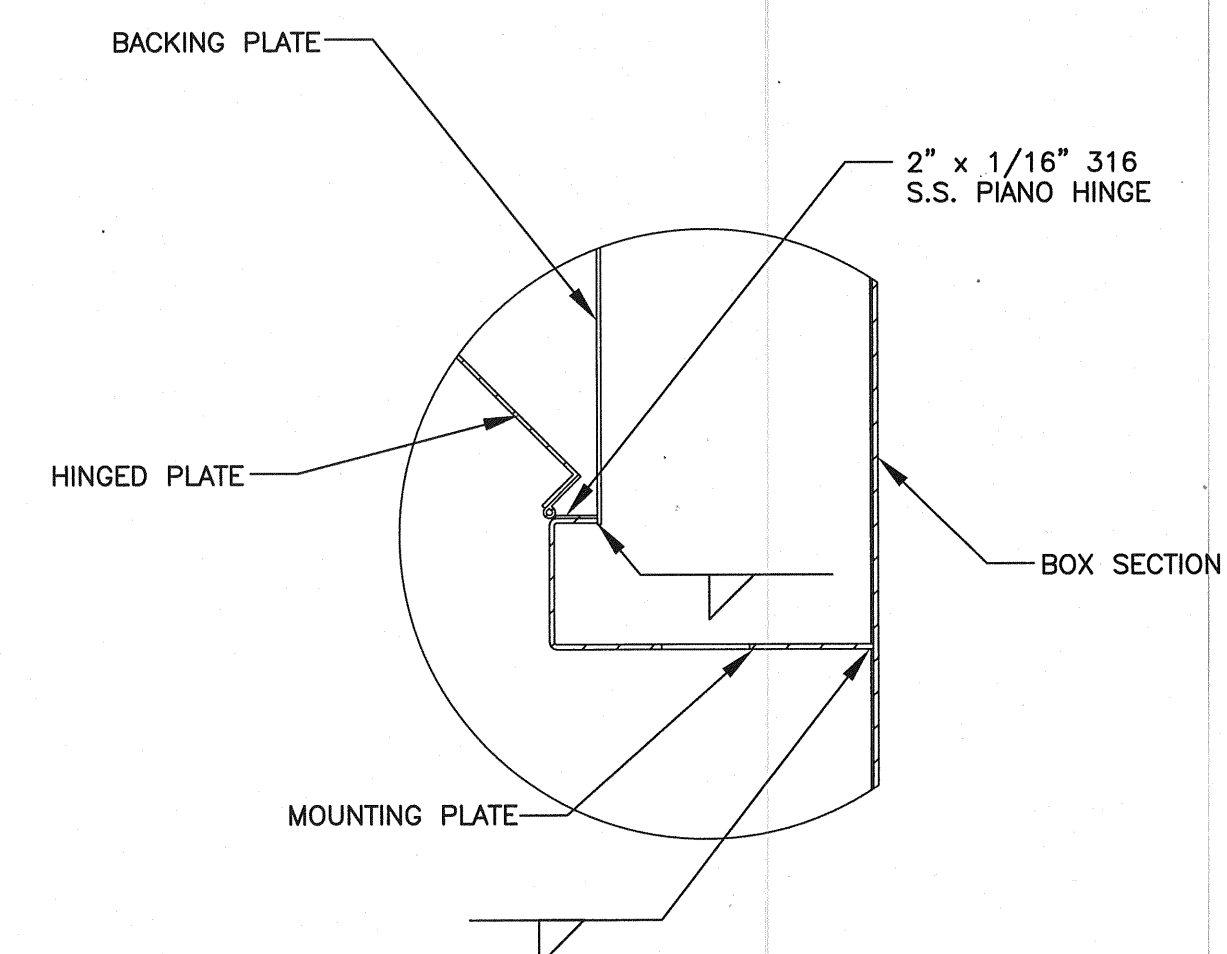
**PANEL COVER**  
MATERIAL: 12" GAUGE ALUMINUM  
1 REQUIRED  
SCALE: 1/2"=1'-0"



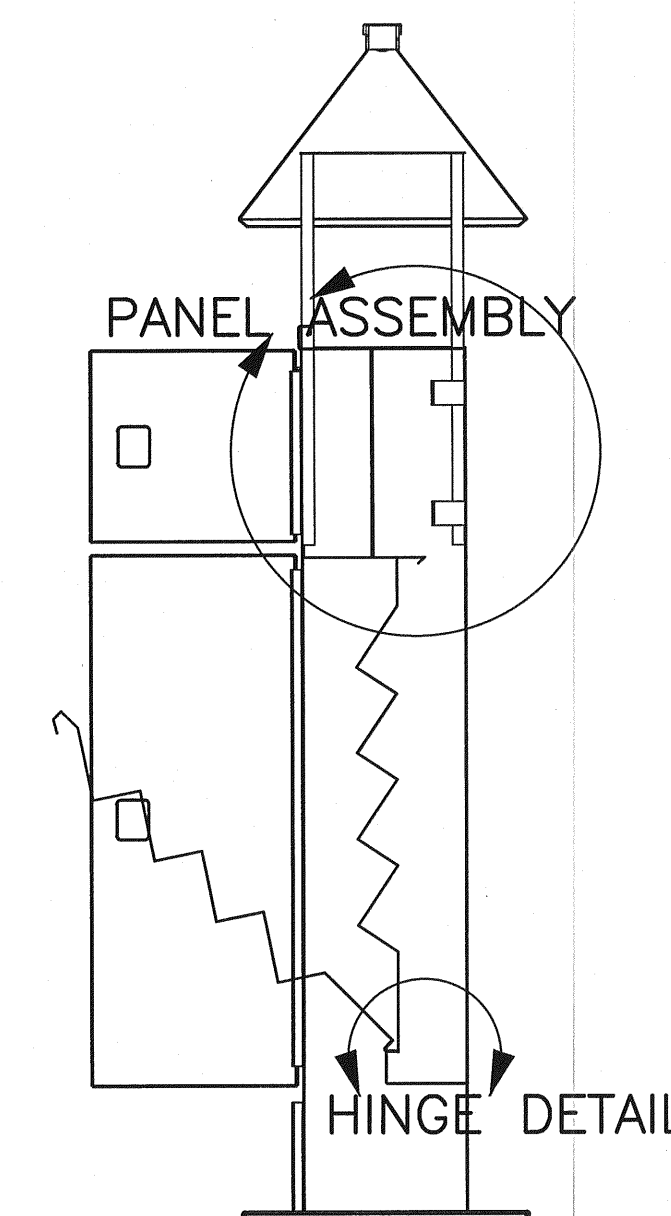
**COVER PLATE**  
MATERIAL: 12" GAUGE ALUMINUM  
1 REQUIRED  
SCALE: 1/2"=1'-0"



**PANEL ASSEMBLY**



**HINGE DETAIL**



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SMALL CRAFT HARBOURS

HARBOUR UPGRADE  
KITAMAAT VILLAGE  
ALUMINUM KIOSK  
DETAILS

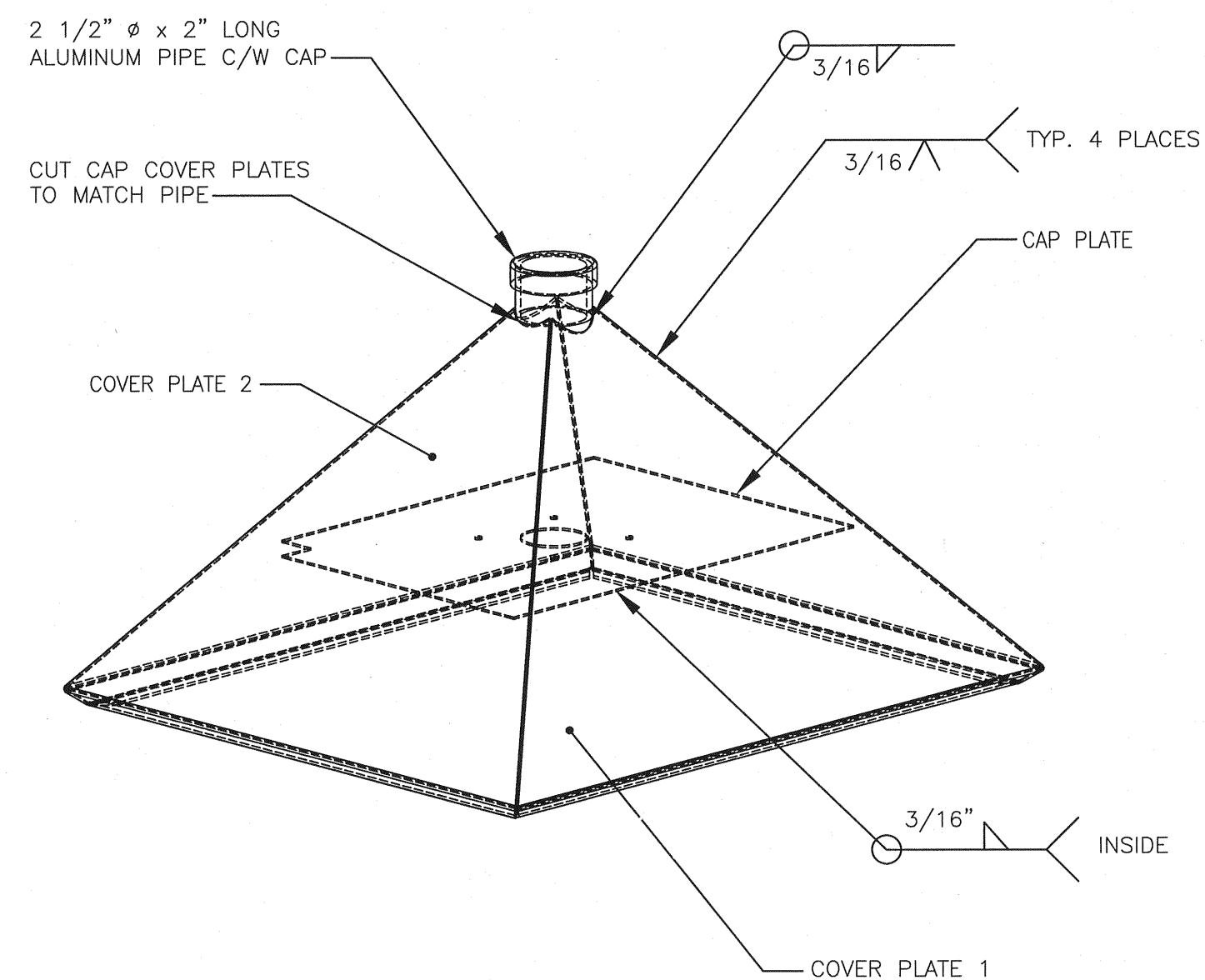
SCALE AS NOTED  
DATE 12-FEB-2014  
DRAWING NUMBER KM-EL-007  
REVISION 1

DESIGNED	DFD
DRAWN	
CHECKED	PJS
RECOMMENDED	
APPROVED	
APPROVED	

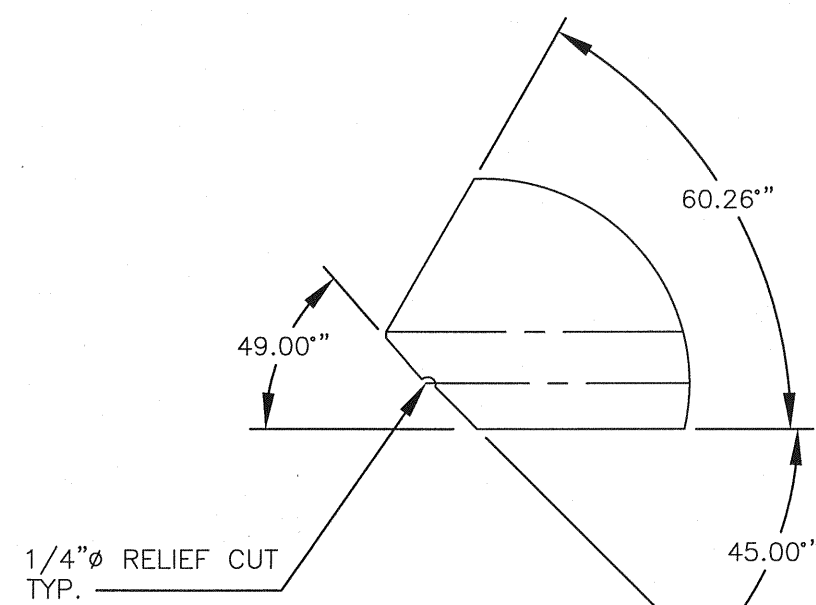
NO.	DATE	REVISIONS
1	17JUL15	ISSUED FOR FABRICATION. DWG # WAS 100272-E7.
0	20MAR14	ISSUED FOR CONSTRUCTION

Plotted by: Susan Chan, Plot Date: 2014-02-15 10:54:15 AM, Plot Path: \\sma\plotters\plot1\14-02-2014 10:54:15 AM KM-EL-007.dwg, Scale: 1/2"=1'-0"

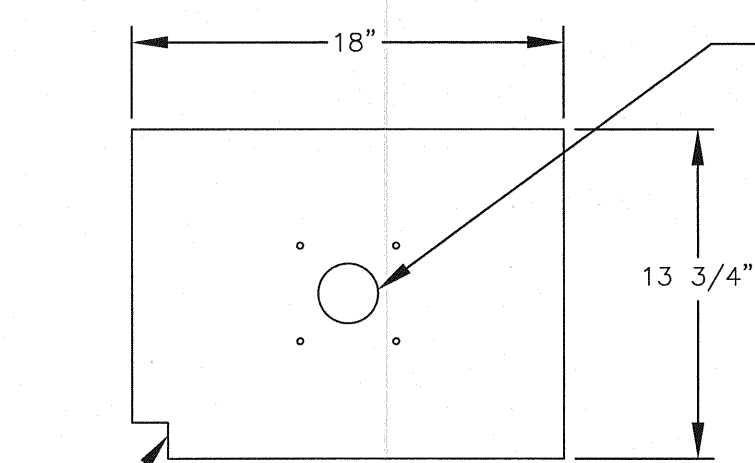
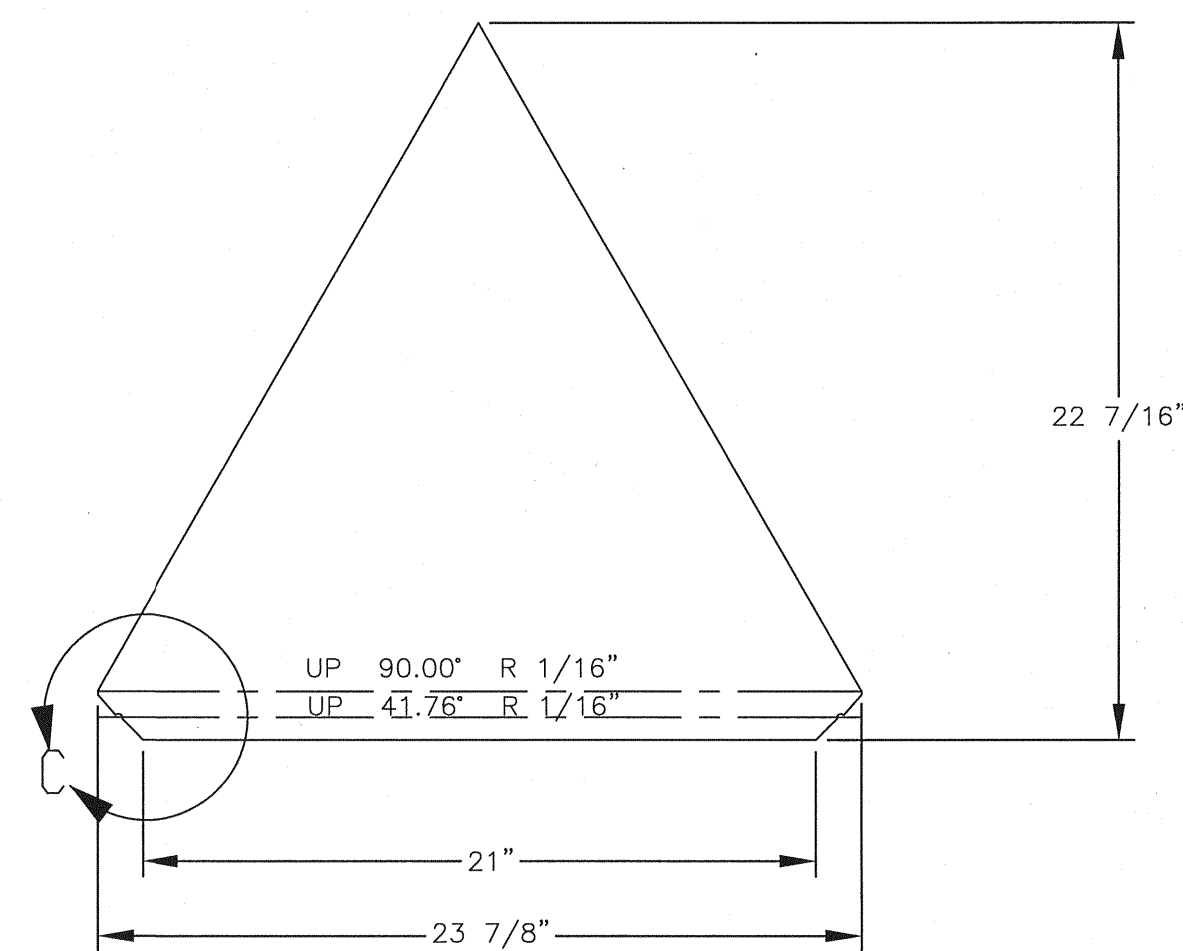
DWG. NO.	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS



**ROOF CAP ASSEMBLY**



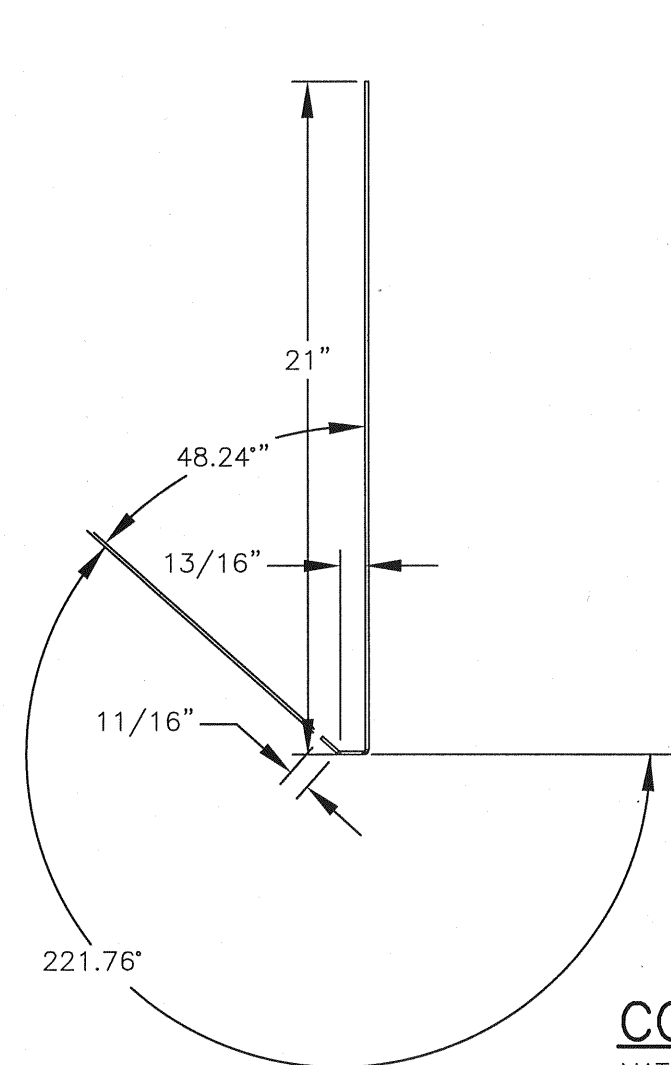
**DETAIL C**  
SCALE 1 : 3



WIREWAY CUTOUT AT ROOF SUPPORT  
(ONE ONLY) FOR WIRES ROUTED TO PHOTOCELL  
AND LUMINAIRE. LOCATE AT ONE OF THE REAR  
ROOF SUPPORTS

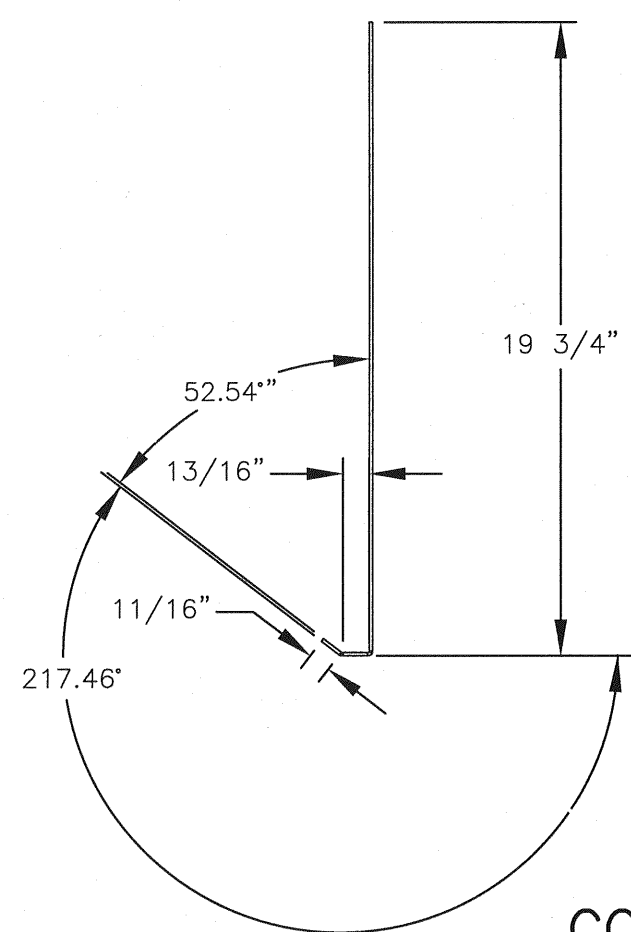
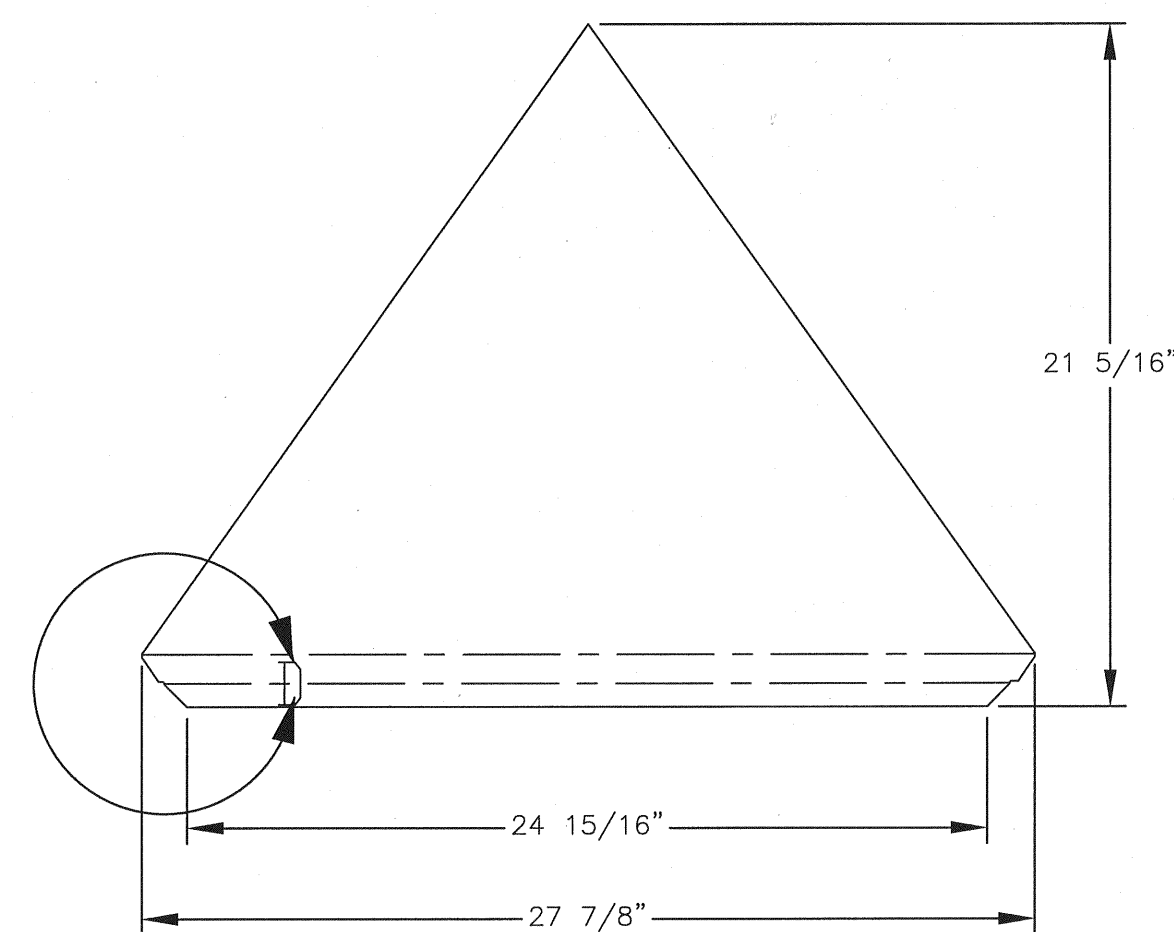
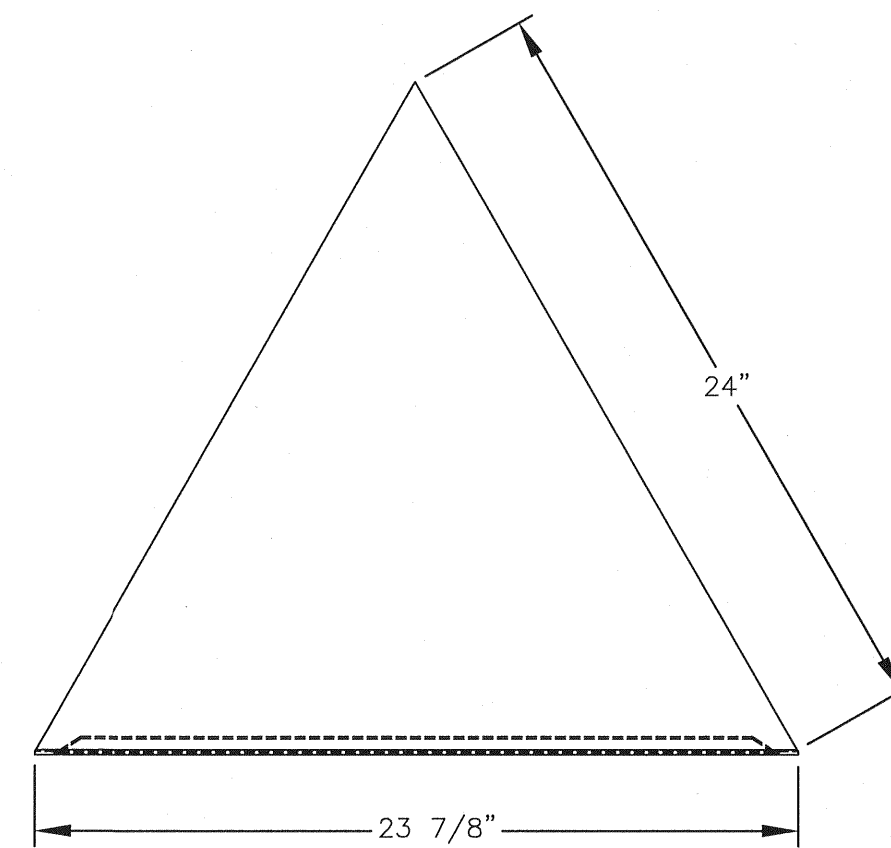
**CAP PLATE**

MATERIAL: 12 GAUGE ALUMINUM  
1 REQUIRED  
SCALE: 3/4"=1'-0"



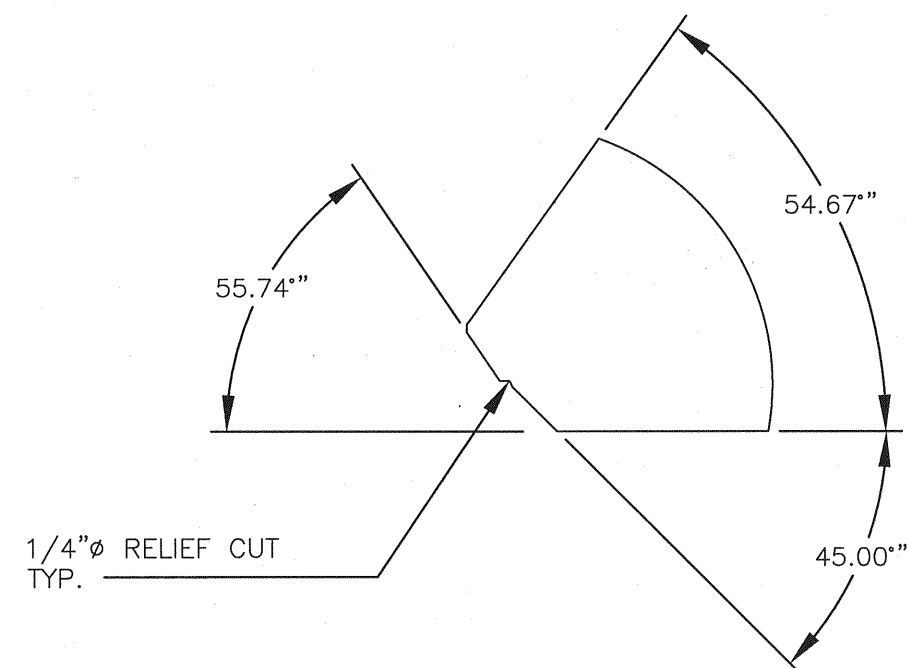
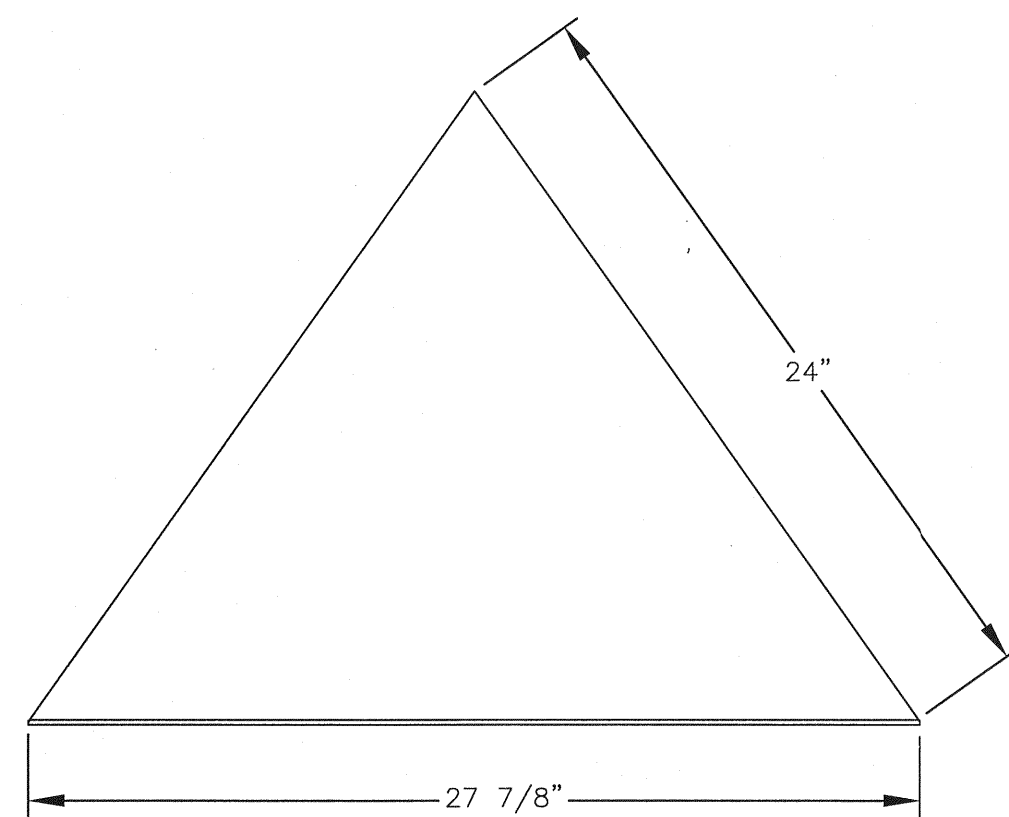
**COVER PLATE - 2**

MATERIAL: 10 GAUGE ALUMINUM  
2 REQUIRED  
SCALE: 1/2"=1'-0"

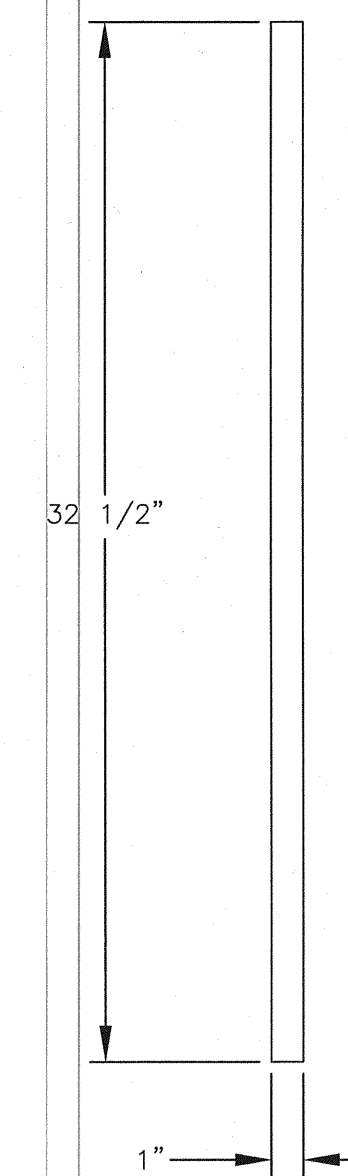


**COVER PLATE - 1**

MATERIAL: 10 GAUGE ALUMINUM  
2 REQUIRED  
SCALE: 1/2"=1'-0"



**DETAIL D**  
SCALE 1 : 3



**ROOF SUPPORTS**

MATERIAL: TS 1 x 1 x 0.12 x 32 1/2" LONG  
4 REQUIRED  
SCALE: 1/2" = 1'-0"

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**FISHERIES AND OCEANS CANADA**  
SMALL CRAFT HARBOURS

**HARBOUR UPGRADE  
KITAMAAT VILLAGE  
ALUMINUM KIOSK  
DETAILS**

SCALE  
AS NOTED  
DATE  
12-FEB-2014  
DRAWING NUMBER  
**KM-EL-008**  
REVISION  
1

DWG. NO.	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS
			1	17JUL15	ISSUED FOR FABRICATION. DWG # WAS 100272-EB.
			0	20MAR14	ISSUED FOR CONSTRUCTION

DESIGNED	DFD
DRAWN	
CHECKED	PJS
RECOMMENDED	
APPROVED	
APPROVED	

Plotter by: Ausenco Inc. Plot: d:\elc\elc-15\plot\100272-eb\100272-eb.dwg (100272-eb.dwg) User: elc Date: 2015-07-15 10:00:00 AM