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Vancouver
British Columbia
V6Z 0B9
Bid Fax: (604) 775-9381

SOLICITATION AMENDMENT MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Public Works and Government Services Canada -
Pacific Region
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver
British C
V6Z 0B9

Title - Sujet New Floats for MSPV Moorage	
Solicitation No. - N° de l'invitation F1816-140001/A	Amendment No. - N° modif. 004
Client Reference No. - N° de référence du client F1816-140001	Date 2014-05-30
GETS Reference No. - N° de référence de SEAG PW-\$PWY-015-7252	
File No. - N° de dossier PWY-4-37014 (015)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-06-06	Time Zone Fuseau horaire Pacific Daylight Saving Time PDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Chan (PWY), Scarlett	Buyer Id - Id de l'acheteur pwy015
Telephone No. - N° de téléphone (604) 775-9382 ()	FAX No. - N° de FAX (604) 775-6633
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DFO - Institute of Ocean Sciences - Patricia Bay, BC	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

30 May 2014**ADDENDUM NO. 3**

The following changes/clarification to the tender documents are effective immediately. This addendum will form part of the tender/contract documents.

Specification Section 01115

Revise Clause 1.4.3 of Section 01115 to read as:

Hours of work will be restricted to 7:00 AM to 6:00 PM daily, including weekends

Existing Camel Drawings

Add As-Built drawings "Titled Patricia Bay, BC Institute of Oceans Sciences - Main Wharf Fendering Upgrade (13 sheets)" showing Camel construction details

Drawing 496-101

Replace the note " 6x16 intermediate bars @ 38.1 (1 ½") O.C. with " 6x10 intermediate bars @ 38.1 (1 ½") O.C.

Drawing 496-401 Under Grating Note (Section C)

Remove the following note as Borden grating is not required :

"Borden #9 Type W/F Galvanized (or approved equal)"

General Inquiries/Clarifications:

Question: Are we able to replace the 2 - 12.75" x 0.375 approach piles with 18" x 0.5" piles

Answer: There is an error in the question as the drawing shows the approach piles as 2 - 12.75" x 0.5" not 2 - 12.75" x 0.375. Also, no alternate or substitution will be allowed.

Question: Would you consider re-specifying the project to use 24" piles in place of the 18" piles for the float moorage ?

Answer: No alternate or substitution will be allowed.

Question: For our drilling water discharge we are planning on setting up a 3 phase system. First phase will have discharge go into a containment tank to settle out coarse rick Second phase will go into another containment tank to settle out fines. Third phase will have the dirty water drain into a filter bag which then would drain back into the ocean. Is this an acceptable method If not, what is the expectation for treating the drilling discharge water.

Answer: The drilling process must comply with the requirements of the Standard Mitigation Organized by Project Activity included in Appendix C of the Contract Documents. Any discharge water or drill tailings discharged into the ocean or in land should follow the BC Marine and Pile Driving Contractors Association, Best Management Practices for Pile Driving and Related Operations and should comply with the local or municipal regulations with respect to discharge onshore.

End of of Addendum No. 3

STRUCTURAL AND MISCELLANEOUS STEEL

1. STRUCTURAL STEEL: C_{45} OR C_{50} (SA 485/500), WITH THE FOLLOWING GRADATIONS: W 360, W 400, W 440, W 460, W 500, W 550, W 600, W 660, W 700, W 750, W 800, W 850, W 900, W 950, W 1000, W 1050, W 1100, W 1150, W 1200, W 1250, W 1300, W 1350, W 1400, W 1450, W 1500, W 1550, W 1600, W 1650, W 1700, W 1750, W 1800, W 1850, W 1900, W 1950, W 2000, W 2050, W 2100, W 2150, W 2200, W 2250, W 2300, W 2350, W 2400, W 2450, W 2500, W 2550, W 2600, W 2650, W 2700, W 2750, W 2800, W 2850, W 2900, W 2950, W 3000, W 3050, W 3100, W 3150, W 3200, W 3250, W 3300, W 3350, W 3400, W 3450, W 3500, W 3550, W 3600, W 3650, W 3700, W 3750, W 3800, W 3850, W 3900, W 3950, W 4000, W 4050, W 4100, W 4150, W 4200, W 4250, W 4300, W 4350, W 4400, W 4450, W 4500, W 4550, W 4600, W 4650, W 4700, W 4750, W 4800, W 4850, W 4900, W 4950, W 5000, W 5050, W 5100, W 5150, W 5200, W 5250, W 5300, W 5350, W 5400, W 5450, W 5500, W 5550, W 5600, W 5650, W 5700, W 5750, W 5800, W 5850, W 5900, W 5950, W 6000, W 6050, W 6100, W 6150, W 6200, W 6250, W 6300, W 6350, W 6400, W 6450, W 6500, W 6550, W 6600, W 6650, W 6700, W 6750, W 6800, W 6850, W 6900, W 6950, W 7000, W 7050, W 7100, W 7150, W 7200, W 7250, W 7300, W 7350, W 7400, W 7450, W 7500, W 7550, W 7600, W 7650, W 7700, W 7750, W 7800, W 7850, W 7900, W 7950, W 8000, W 8050, W 8100, W 8150, W 8200, W 8250, W 8300, W 8350, W 8400, W 8450, W 8500, W 8550, W 8600, W 8650, W 8700, W 8750, W 8800, W 8850, W 8900, W 8950, W 9000, W 9050, W 9100, W 9150, W 9200, W 9250, W 9300, W 9350, W 9400, W 9450, W 9500, W 9550, W 9600, W 9650, W 9700, W 9750, W 9800, W 9850, W 9900, W 9950, W 10000, W 10050, W 10100, W 10150, W 10200, W 10250, W 10300, W 10350, W 10400, W 10450, W 10500, W 10550, W 10600, W 10650, W 10700, W 10750, W 10800, W 10850, W 10900, W 10950, W 11000, W 11050, W 11100, W 11150, W 11200, W 11250, W 11300, W 11350, W 11400, W 11450, W 11500, W 11550, W 11600, W 11650, W 11700, W 11750, W 11800, W 11850, W 11900, W 11950, W 12000, W 12050, W 12100, W 12150, W 12200, W 12250, W 12300, W 12350, W 12400, W 12450, W 12500, W 12550, W 12600, W 12650, W 12700, W 12750, W 12800, W 12850, W 12900, W 12950, W 13000, W 13050, W 13100, W 13150, W 13200, W 13250, W 13300, W 13350, W 13400, W 13450, W 13500, W 13550, W 13600, W 13650, W 13700, W 13750, W 13800, W 13850, W 13900, W 13950, W 14000, W 14050, W 14100, W 14150, W 14200, W 14250, W 14300, W 14350, W 14400, W 14450, W 14500, W 14550, W 14600, W 14650, W 14700, W 14750, W 14800, W 14850, W 14900, W 14950, W 15000, W 15050, W 15100, W 15150, W 15200, W 15250, W 15300, W 15350, W 15400, W 15450, W 15500, W 15550, W 15600, W 15650, W 15700, W 15750, W 15800, W 15850, W 15900, W 15950, W 16000, W 16050, W 16100, W 16150, W 16200, W 16250, W 16300, W 16350, W 16400, W 16450, W 16500, W 16550, W 16600, W 16650, W 16700, W 16750, W 16800, W 16850, W 16900, W 16950, W 17000, W 17050, W 17100, W 17150, W 17200, W 17250, W 17300, W 17350, W 17400, W 17450, W 17500, W 17550, W 17600, W 17650, W 17700, W 17750, W 17800, W 17850, W 17900, W 17950, W 18000, W 18050, W 18100, W 18150, W 18200, W 18250, W 18300, W 18350, W 18400, W 18450, W 18500, W 18550, W 18600, W 18650, W 18700, W 18750, W 18800, W 18850, W 18900, W 18950, W 19000, W 19050, W 19100, W 19150, W 19200, W 19250, W 19300, W 19350, W 19400, W 19450, W 19500, W 19550, W 19600, W 19650, W 19700, W 19750, W 19800, W 19850, W 19900, W 19950, W 20000, W 20050, W 20100, W 20150, W 20200, W 20250, W 20300, W 20350, W 20400, W 20450, W 20500, W 20550, W 20600, W 20650, W 20700, W 20750, W 20800, W 20850, W 20900, W 20950, W 21000, W 21050, W 21100, W 21150, W 21200, W 21250, W 21300, W 21350, W 21400, W 21450, W 21500, W 21550, W 21600, W 21650, W 21700, W 21750, W 21800, W 21850, W 21900, W 21950, W 22000, W 22050, W 22100, W 22150, W 22200, W 22250, W 22300, W 22350, W 22400, W 22450, W 22500, W 22550, W 22600, W 22650, W 22700, W 22750, W 22800, W 22850, W 22900, W 22950, W 23000, W 23050, W 23100, W 23150, W 23200, W 23250, W 23300, W 23350, W 23400, W 23450, W 23500, W 23550, W 23600, W 23650, W 23700, W 23750, W 23800, W 23850, W 23900, W 23950, W 24000, W 24050, W 24100, W 24150, W 24200, W 24250, W 24300, W 24350, W 24400, W 24450, W 24500, W 24550, W 24600, W 24650, W 24700, W 24750, W 24800, W 24850, W 24900, W 24950, W 25000, W 25050, W 25100, W 25150, W 25200, W 25250, W 25300, W 25350, W 25400, W 25450, W 25500, W 25550, W 25600, W 25650, W 25700, W 25750, W 25800, W 25850, W 25900, W 25950, W 26000, W 26050, W 26100, W 26150, W 26200, W 26250, W 26300, W 26350, W 26400, W 26450, W 26500, W 26550, W 26600, W 26650, W 26700, W 26750, W

EMBEDDED ANCHORS

1. ALL ANCHOR RODS TO BE STAINLESS

2. DRILL ANCHOR HOLES IN CONCRETE AS DETAILS, ADJUST TO AVOID CONTACT WITH REINFORCING. PLUG ALL DRILL HOLES NOT USED WITH GENEROUS GROUT.
3. FIELD MEASURE AND DRILL FABRICATED STEEL ELEMENTS & PLATES TO SUIT FIELD DRILL HOLES
4. EPOXY GROUT ANCHORS WITH "ULTI HIT HY150" OR APPROVED EQUIVALENT (SEE 500 EPOXY UNDERWATER)
5. TACK WELD ALL EXPOSED NUTS HOLDING CHAIN TO CONCRETE

FENDERS

- ## 1. FENDER RUBBERS

DESIGN OF THE FENDER RUBBERS HAS BEEN BASED ON
PROPRIETARY CATALOGUE INFORMATION REQUIRED DESIGN

DESIGN OF THE FINGER RUBBERS HAS BEEN BASED ON PROPERTIES FOR THE FINGERS AS FOLLOWS:					
FINGER TYPE	CAL. UP THICKNESS	MIN. SUPP.	MAX. REACTION	FINISH	
ARCH	AR500N [500]	70	450	A	B
ARCH	AR500P [500]	70	450	A	B
ARCH	AR500 [500]	70	250	A	B
UNIT ELEMENT	UE550	500	250		
CONE	C400	36	180		


- (ARCH AND UNIT ELEMENT DATA BASED ON 1 m W.

- TYPE B: STRUCTURAL MOUNTING TO FACE OF EMBEDDED STEEL PLATE WITH UHPC HOLES AT OTHER END. PANEL MOUNTING

- TYPE C: STRUCTURAL MOUNTING RUBBERS
2. PROVIDE, FOR ENGINEER'S APPROVAL, DATA AND PERFORMANCE DATA OF FENDER RUBBERS TO BE SUPPLIED TO MEET THE ABOVE REQUIREMENTS.
 3. FENDER MOUNTING PLATE SIZES AND ANCHOR BOLT LOCATIONS ARE TO BE ADJUSTED TO THE CONTRACTOR FOR FENDER RUBBERS APPROVED BY PM/SC.

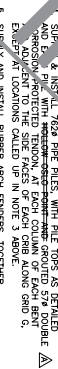
APPROVED BY FMSC.

SUMMARY OF SCOPE OF WORK

APPROVED BY:  ROBERT B. ADAMS

1. REMOVE AND DISPOSE RUBBER PILES ALONG THE NORTH AND SOUTH FLOOD WALLS AND END CRIBS OF PIER 1 AND PIER 2.
2. REEL AND USE 200MM RUBBER CHAIN TENDERS TO REMOVE EXISTING RUBBER PILES TO ACCOMMODATE NEW TENDERING SYSTEM.
3. SUPPLY, INSTALL AND MAINTAIN FISH BRAGINS AND FRAMING TO PROTECT EXISTING RUBBER PILES FROM COLLAPSE TO THE FOLLOWING LOCATIONS:
a. LOCATIONS 1 TO 10.

- 16 GRID 11 AT EACH COLUMN.



OF RUBBER FENDERS ADJACENT TO
CRIB ALONG GRID G.

8. SUPPLY AND INSTALL UHMW(PE) PANELS AT LOCATIONS SHOWN.
9. SUPPLY AND INSTALL LOAD DEFLECTION GABLETS TO PILES AT LOCATIONS OF THE RUBBER FENDERS, EXCEPT THE CROSS PILES ALONG GROUND 13.
10. SUPPLY AND INSTALL CONTINUOUS 7100 PPE CABLES WITH FOAM TIL, SPICE JOINTS, OUTSCISSERS, TUGGER BAR STRIP, LOCATING HSS & CHAINS, RETROGRADER, AND UHMW(PE) PANELS. CABLES TO BE PROVIDED ALONG GROUND A, B, F, G & 11.
11. SUPPLY AND INSTALL ACHD RUBBER FENDERS AT PILE

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

- | Pacific Region | Region du Pacifique |
|-----------------------------|---------------------|
| Fisheries and Oceans Canada | |

- KM Engineering Group Inc.

Suite 305 - 695 Fort Street, Victoria, B.C. V8W 1H7

- TTL (250) 920-7979 FAX (250) 920-7911
CADD FILE NO. - SHEET 1
KM ENGINEERING PROJECT NO. - KM 04-03

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number	revision	revision	date
A	AS BUILT		DEC. 2, 2000

PATRICIA BAY, B.C.
INSTITUTE OF OCEAN SCIENCES

MAIN WHARF FENDERING UPGRADE

[illegible]



EXISTING ELEVATION - CROSS PIER





GENERAL ARRANGEMENT



EXISTING ELEVATION - PIER 2

LEGEND
(E) : EXISTING
(L) : RELOCATED EXISTING LADDER
(CL) : EXISTING CLEATS

KM Engineering Group Inc. Consulting Engineers Suite 301 - 480 1 st Street, Victoria, B.C. V8W 1H7 TEL: (250) 363-7979 FAX: (250) 363-7911 CAD FILE No. - 59451 KM ENGINEERING PROJECT No. - KM 04-003		KM 04-0003 10/1/2004
PATRICIA BAY, B.C. INSTITUTE OF OCEAN SCIENCES MAIN WHARF FENDERING UPGRADE		
drawing	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p>number revision</p> </div> <div style="width: 45%;">  <p>number revision</p> </div> </div>	date DEC. 2, 2004
project	A detail number B source drawing no. C detail revision no. detail per drawing no.	
PATRICIA BAY, B.C. INSTITUTE OF OCEAN SCIENCES MAIN WHARF FENDERING UPGRADE		
drawing	GENERAL ARRANGEMENT AND EXISTING SECTIONS	date
designed	MANOJED MATHAN, P. ENG.	checked
date	03.03.03	date
drawn	AILEEN CONNELLY	checked
date	03.03.10	date
approved		approved
title	Submission	
revision	1	
PROJECT ENGINEER	Administrator de Proiect: 105004	
PROJECT NUMBER	number of project: 853033	
drawing number	number of sheets	no.
002		A



	A	A
	A detail number number du détail	A
	B source d'origine no	

project	project
PATRICIA BAY B.C.	

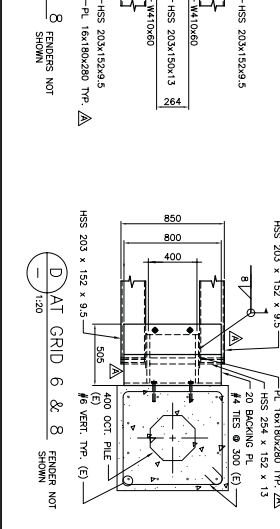
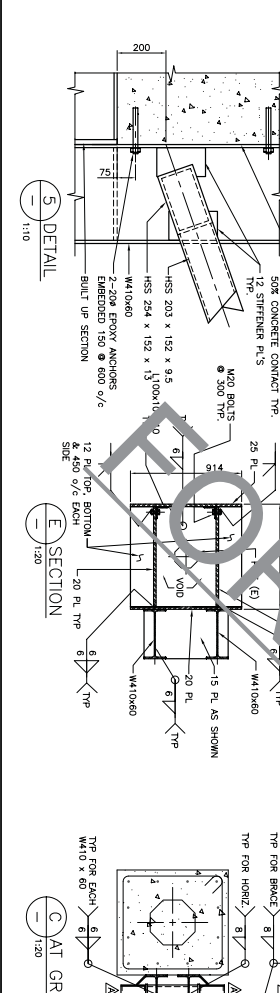
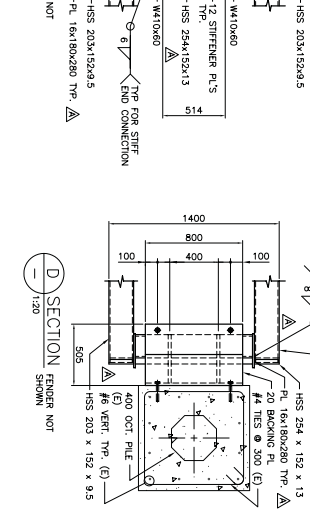
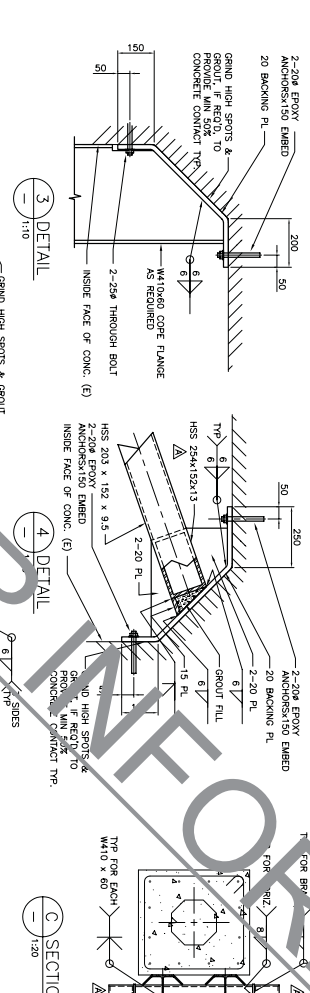
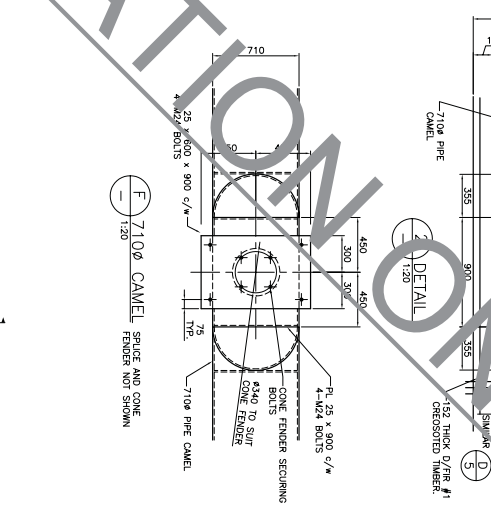
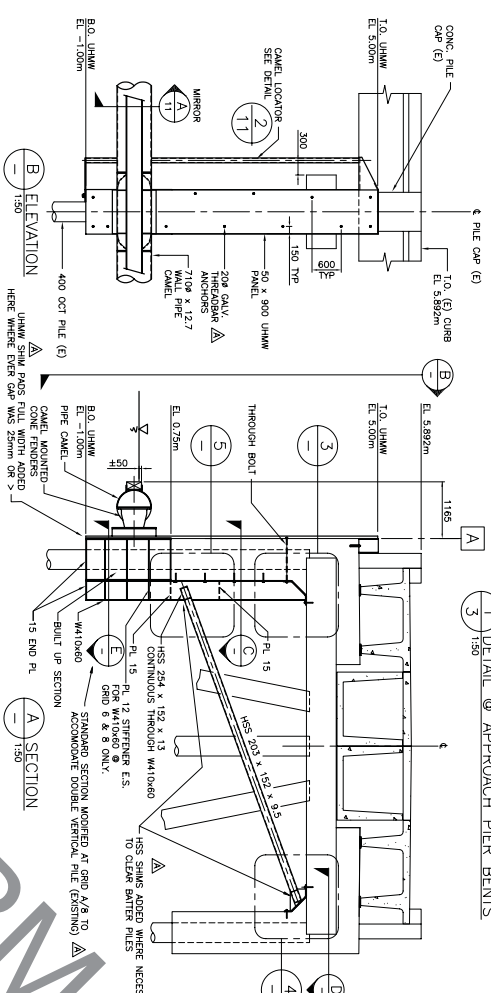
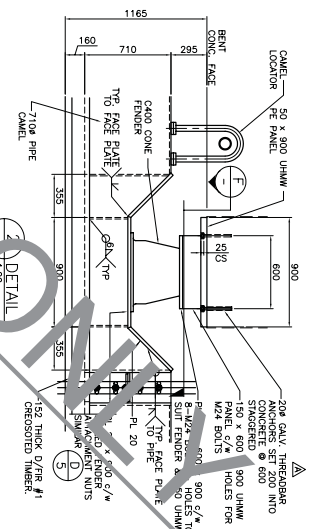
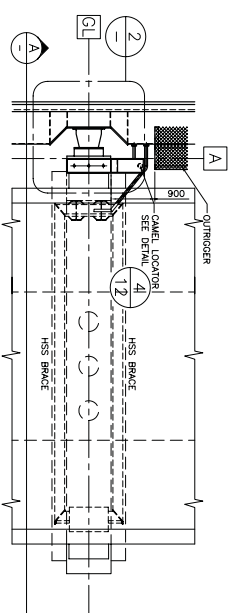
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KM Engineering Group Inc.
Consulting Engineers
Suite 200 - 400 First Street, Victoria, B.C. V8W 1Y7
TEL: (250) 363-7275 FAX: (250) 363-7811
CAD FILE No. - 86373 &
KM ENGINEERING PROJECT No. - KM 04-03

number	revision	date
A	AS BUILT	DEC 4, 2004

PATRICK BAY, B.C.
INSTITUTE OF OCEAN SCIENCES
MAIN WHARF
FENDERING UPGRADE

drawn by: MACHOCHI KIMANIKA, P. ENG.
checked by: ADEL T. KIMANIKA
date: 03.03.10
approved: 03.03.10
signature: [Signature]
title: [Title]
Project number: 863033
Project name: Administration de projet 17502
drawing number: 004



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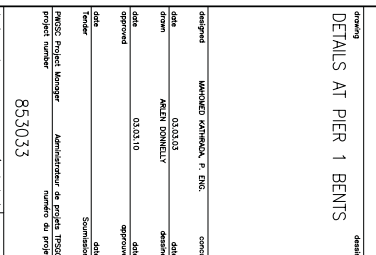
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number	revision	revision	date

PATRICIA BAY, B.C.
INSTITUTE OF OCEAN SCIENCES
MAIN WHARF
FENDERING UPGRADE

drawing

DETAILS AT PIER 1 BENTS

detail



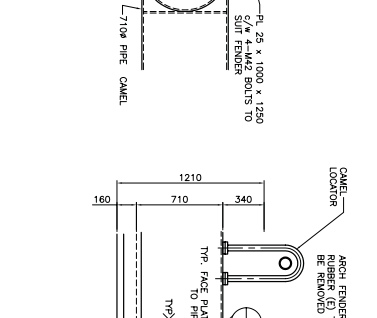
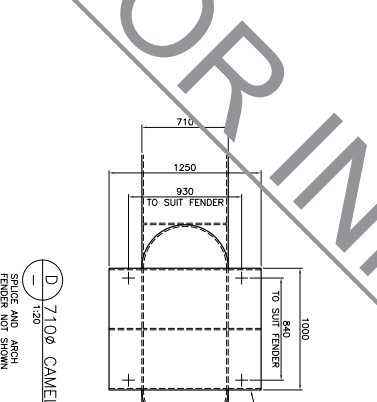
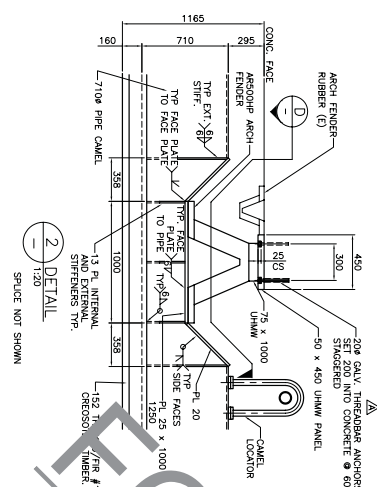
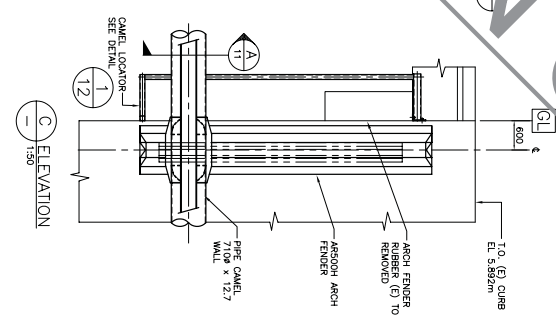
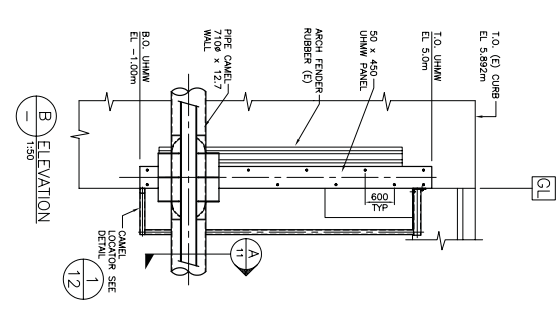
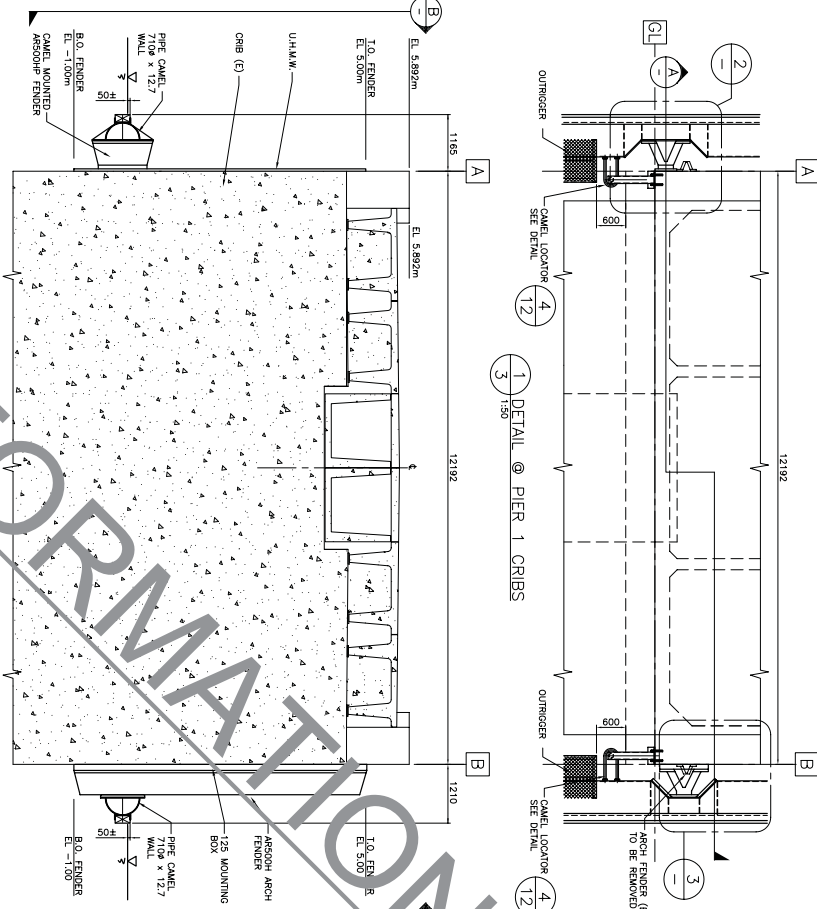
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C	number of detail	B/C
	detail on drawing no.	
	detail per drawing no.	

PATRICK BAY, B.C.
INSTITUTE OF OCEAN SCIENCES
MAIN WHARF
FENDERING UPGRADE

DETAILS AT PIER 1 CRIBS

designed	WACHELET KENNEDY P. INC.	checked	
date	03.03.02	date	
drawn	ARON KENNEDY	checked	
date	03.03.10	date	
approved		approved	
date		date	
title	PROJECT MANAGER	Administrateur de projet, TPSCC	
project number	853033	numero du projet	
drawing number	006	numero du dessin	A



KM ENGINEERING PROJECT NO. - KM 04-03

C detail en drawing no.
detail sur dessin no.

FENDERING UPGRADE

BENTS

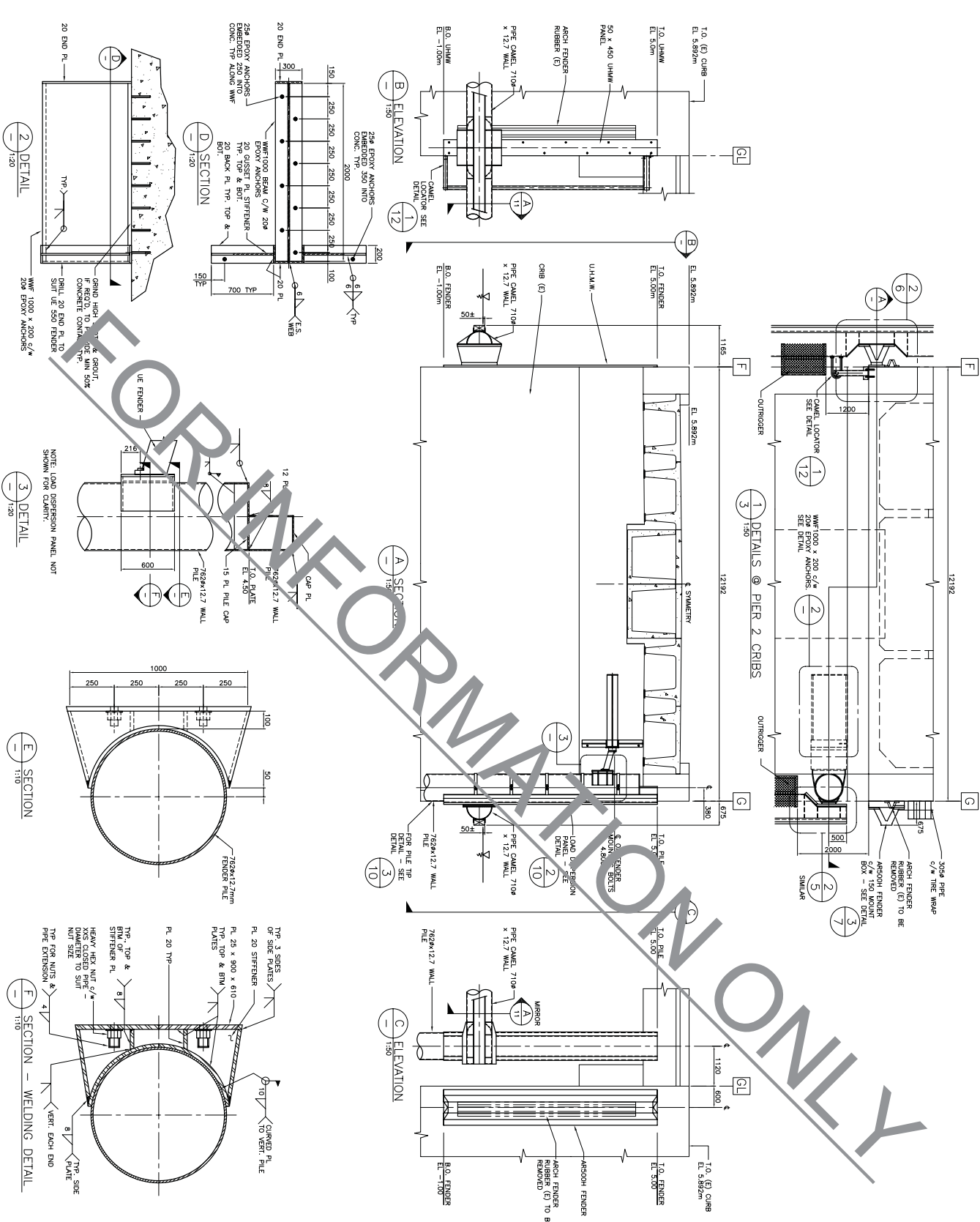
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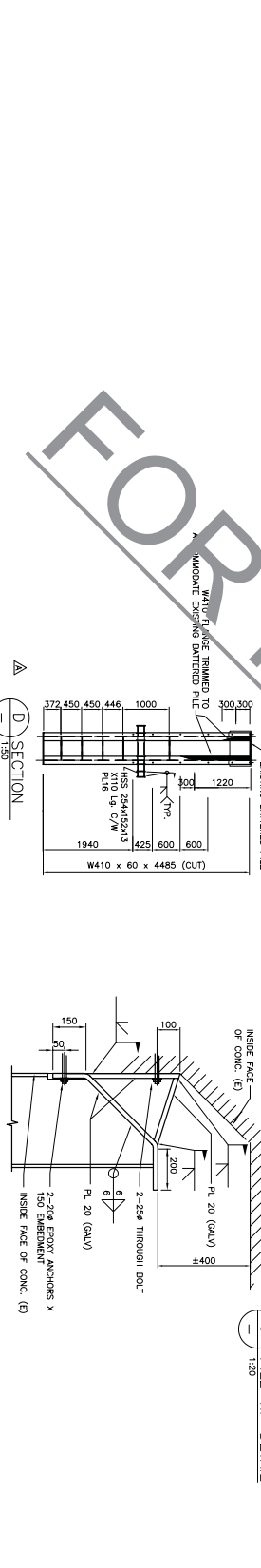
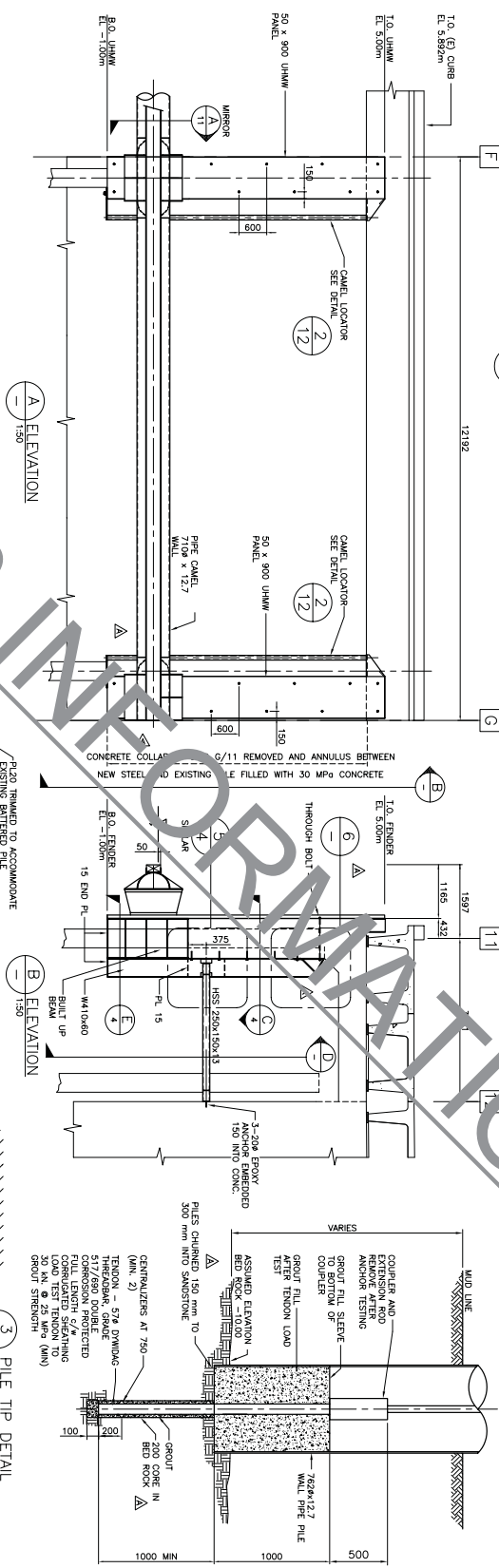
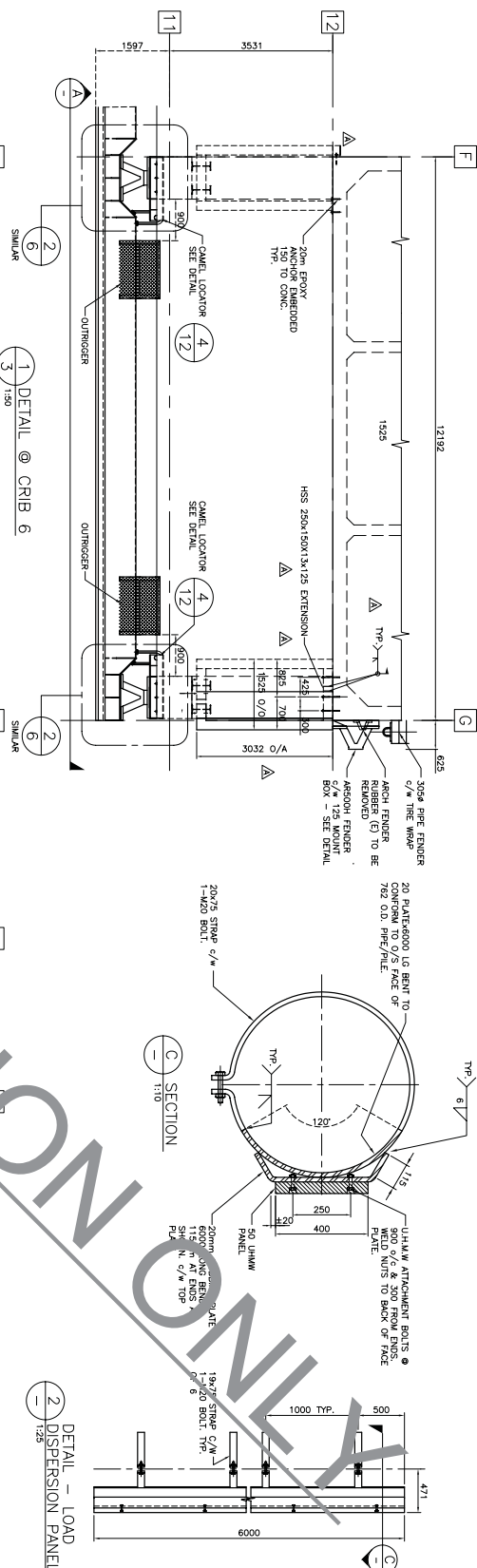
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

A source drawing no.
 de dessin no.
 detail sur dessin no.
 détail sur dessin no.

HENDERING UPGRADE

DETAILS AT PIER 2 CRIBS

609 A



KM Engineering Group Inc. Consulting Engineers Suite 300 - 8801 Fort Sheppard Avenue, E.C. Vancouver TEL (604) 293-7979 FAX (604) 293-7911 CAD FILE No. - SHEET 10 KM ENGINEERING PROJECT No. - KM 04-03		AND 04-2003 DATE 04-2003	
PATRICIA BAY, B.C. INSTITUTE OF OCEAN SCIENCES MAIN WHARF FENDERING UPGRADE			
project		project	
			
A detail number B detail number C detail number		A detail number B detail number C detail number	
number	revision	revision	date
A	AS BUILT	DEC. 5, 2006	
drawing number		drawing number	
010		A	

KM Engineering Group Inc.

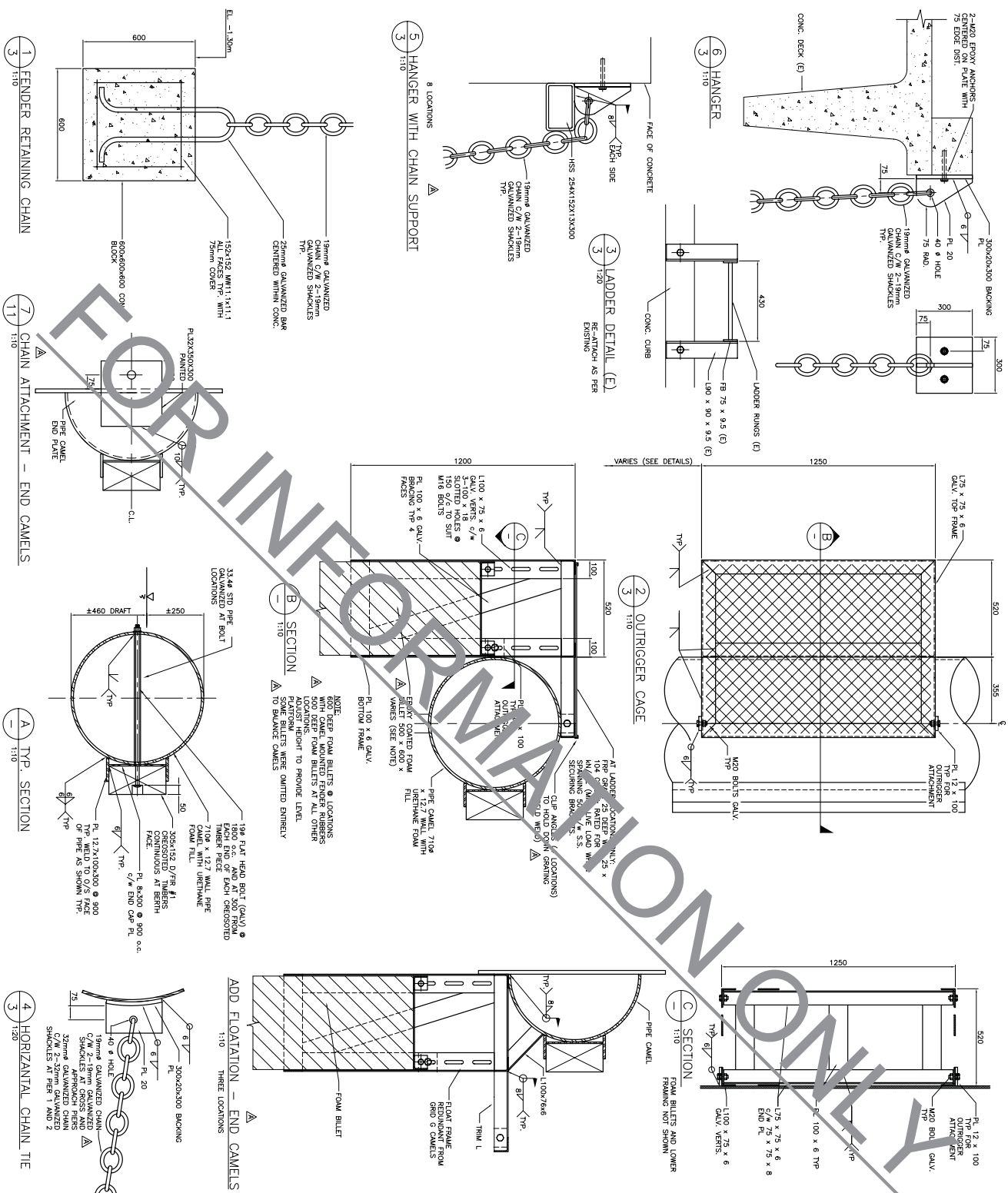
Consulting Engineers **KM 04-2003**
Suite 205 • 860 Fox Street, Victoria, B.C. V8M 1H7
TEL (250) 920-7979 FAX (250) 920-7911

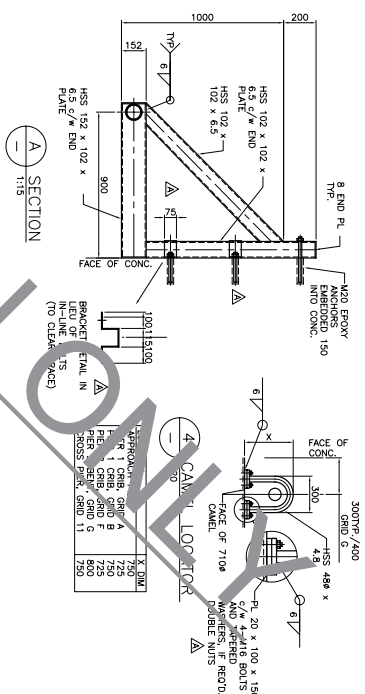
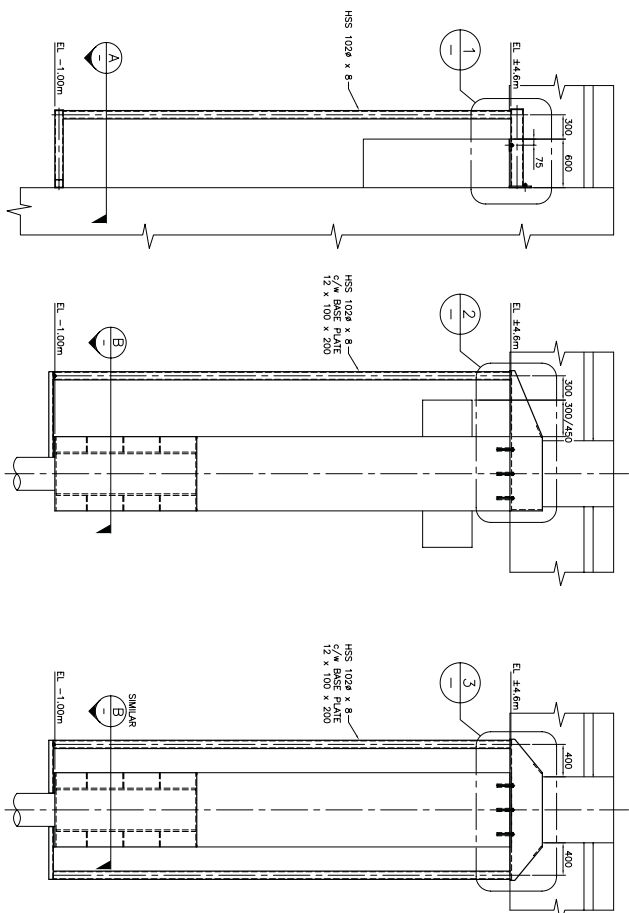
CAD FILE No. • SHEET 11

KM ENGINEERING PROJECT No. • KM 04-03

A	AS BUILT	OEC. 7, 200

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[illegible]

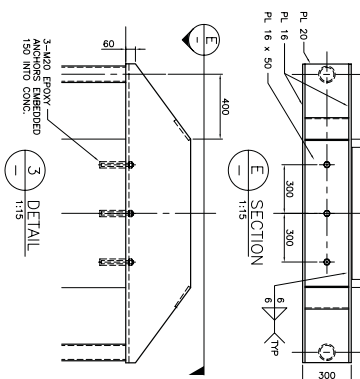
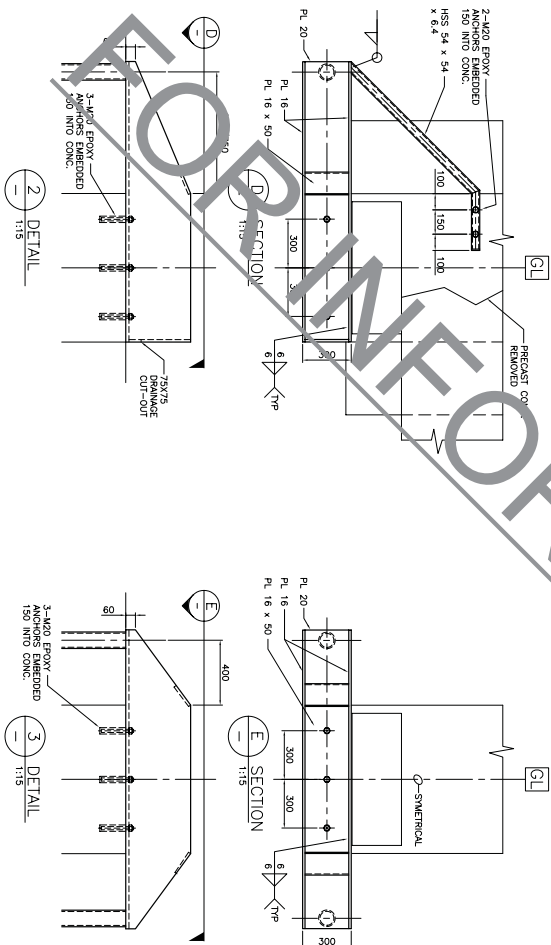
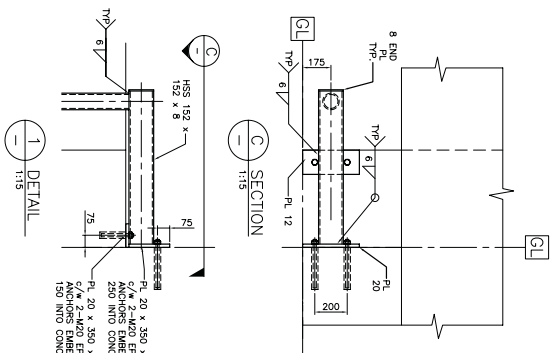
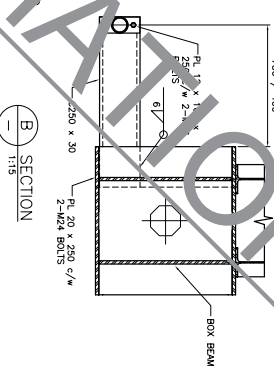


1	CAMEL LOCATOR FOR CRIBS
6	1:30






CAMELS AND FENDERS NOT SHOWN

2 CAMEL LOCATOR FOR BENTS
1:30
4 APPROACH PIER SHOWN

3 CAMEL LOCATOR FOR BENTS @ GR
1:30
8 CAMELS AND FENDERS NOT SHOWN



A	AS BUILT		DEC. 7, 200
number	revision	revision	date

	number du détail	source drawing no.	de dessin no.	détail on drawing no.	détail sur dessin no.
					

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drawing
CAMEL LOCATING HSS &
FRAME DETAILS

designed	MAHMOUD KAMHAWK, P. ENG.	conco
date	03.03.03	date
drawn	AARON DONNELLY	desig
date	03.03.10	date
approved		approved
date		date
Vendor	Scramble	
PM/SC Project Manager	Administrateur de projet TP2020	
Project number	numéro du projet	

PMUSC Project Manager	Administrateur de projets IT-PMU
project number	numero du projet
853033	

ORDER NUMBER	NUMBER ON ORDER	REV
012		A

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drinking
DETAILS AT CRIBS 1 & 6
ON GRID 13

designed	MICHAEL KATSIKAKI, P. ENG.	consent
drawn	03.03.03	draft
approved	AILEEN DONNELLY	designer
date	03.03.10	date
submitted		approval
date		draft
Project Manager	Administrateur de projets TP500	Submission
Project number	numéro du projet	