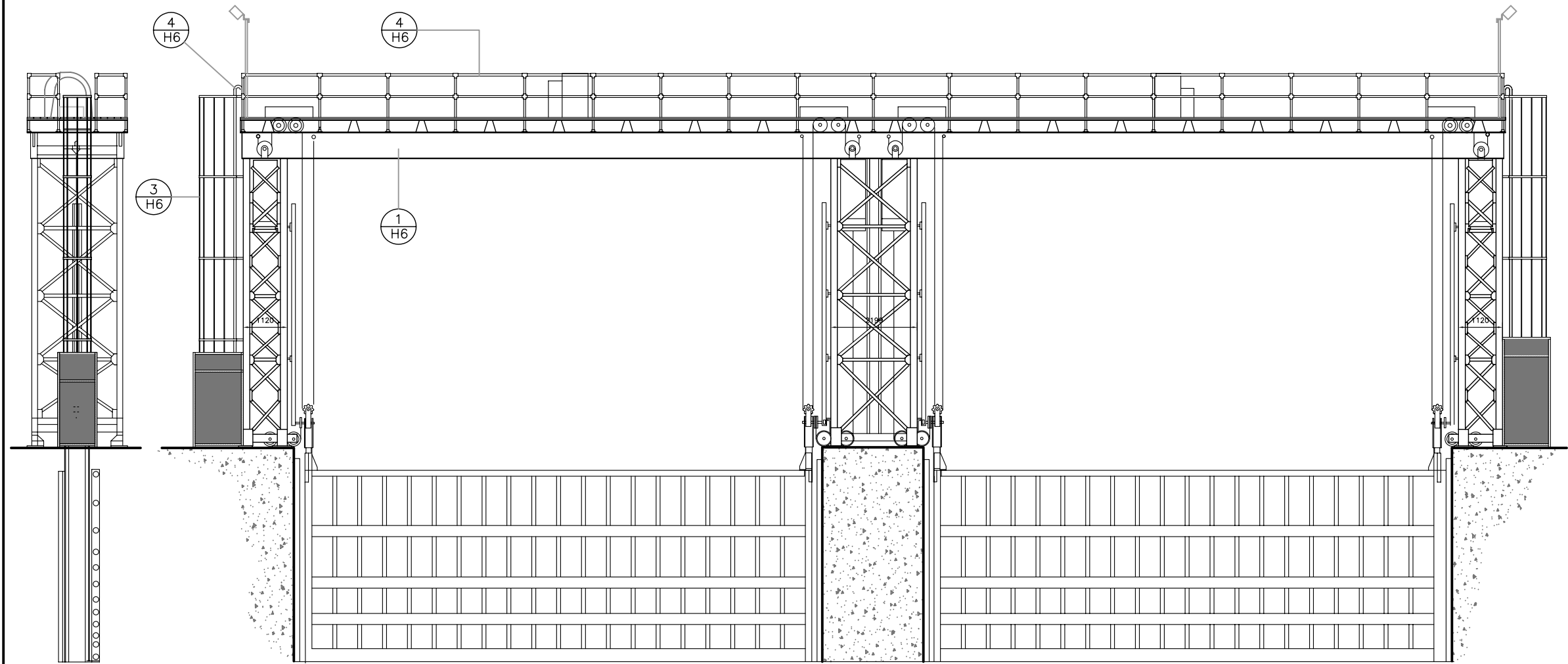


PLAN OF TOP OF TOWER
SCALE : 1:50





NORTH ELEVATION
SCALE : 1:50

WEST ELEVATION
SCALE : 1:50

NOTE:
SOME DIMENSIONS ON TOWER PLAN
NEED TO BE VERIFIED ON SITE.

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Révision		
	A Detail number No. du détail	
	B Location dwg. no. No. sur dessin	
	C Drawing sheet no. No. du dessin	

Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada
Ontario Region Région de l'Ontario

Canada

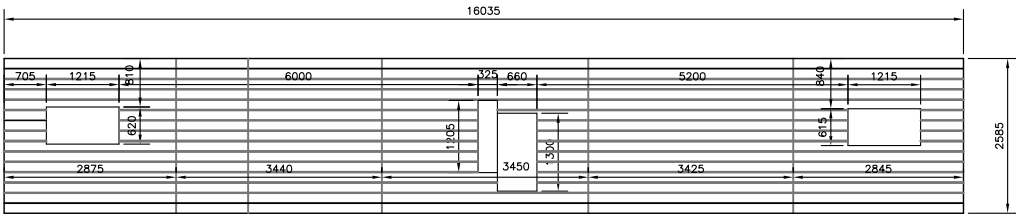
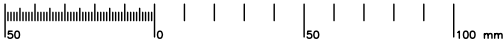
Project title / Titre du projet
**HERITAGE RECORDING
BIG CHAUDIERE DAM
FRENCH RIVER**

ONTARIO

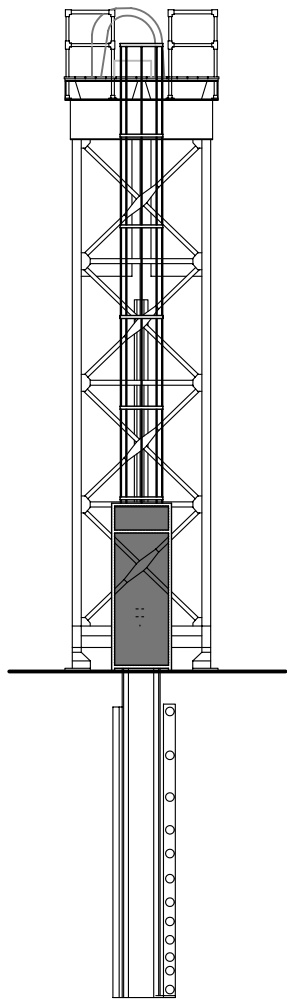
Drawing title / Titre du dessin
**NORTH CHANNEL DAM
ELEVATIONS AND PLAN AT
TOP OF TOWER**

Scale / Echelle NOT TO SCALE	
Drawn by/ Dessiné par B. Prins	Date 2009.03.26
Designed by/ Conçu par	Date
Checked by/ Vérifié par C.A. Smith	Date 2009.03.26
Approved by / Approuvé par	Date

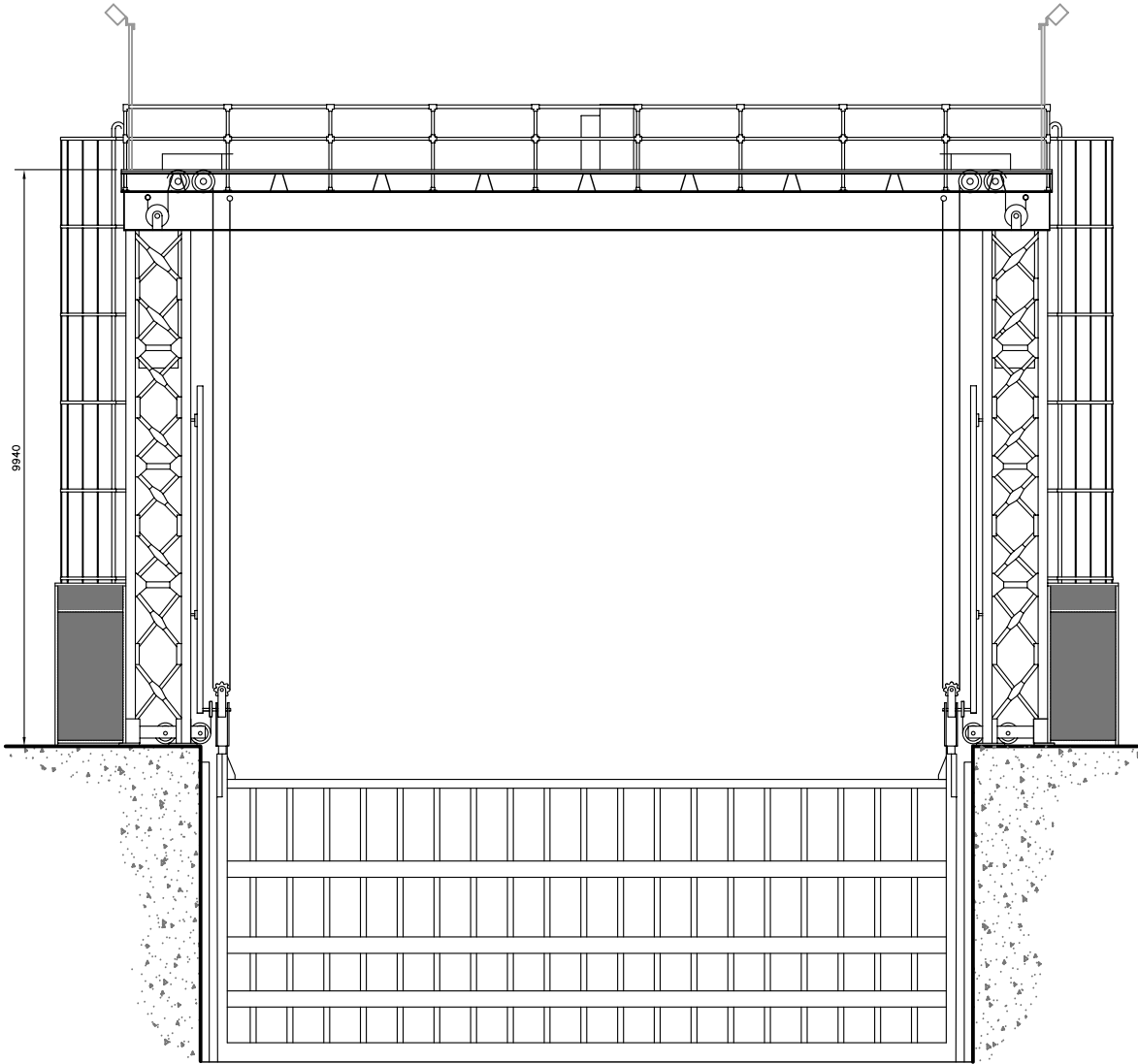
Project No./No. du projet R-12000.003	Client No./No du Client	Sheet No./ Feuille No. H4
Drawing Reference No./Numéro de Référence du Dessin OG 08/R4		



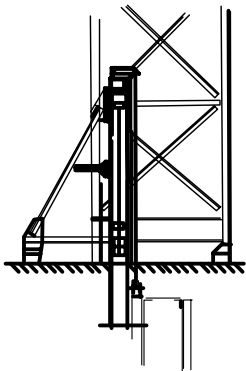
PLAN OF MACHINERY BRIDGE
SCALE : 1:50



NORTH ELEVATION
SCALE : 1:50



WEST ELEVATION
SCALE : 1:50



SUPPORT BASE DETAIL
SCALE : 1:50

NOTE:

SOME DIMENSIONS ON
TOWER PLAN NEED TO
BE VERIFIED ON SITE.

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Révision				
A	A Detail number No. du détail			
	B Location dwg. no. No. sur dessin			
	C Drawing sheet no. No. du dessin			

Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____



Public Works and
Government Services
Canada



Travaux publics et
Services gouvernementaux
Canada

Ontario Region
Région de l'Ontario



Project title / Titre du projet

HERITAGE RECORDING
BIG CHAUDIERE DAM
FRENCH RIVER

ONTARIO

Drawing title / Titre du dessin

SOUTH CHANNEL DAM
ELEVATIONS AND PLAN AT
TOP OF TOWER

Scale / Echelle
NOT TO SCALE

Drawn by/ Dessiné par J. N. McKay, B. Prins Date 2009.03.26

Designed by/ Conçu par Date

Checked by/ Vérifié par C. A. Smith Date 2009.03.26

Approved by / Approuvé par Date

Project No./No. du projet R-12000.003 Client No./No du Client Sheet No./ Feuille No.

Drawing Reference No./Numéro de Référence du Dessin OG 08/R4 H5

TIME PLOTTED

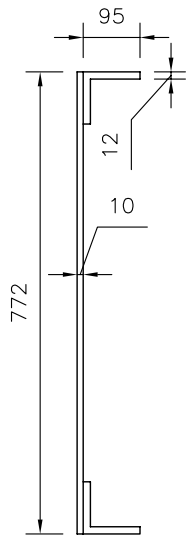
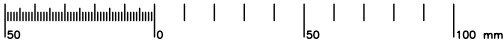
DATE PLOTTED 2008.02.01

PERSON PLOTTING J. McKay

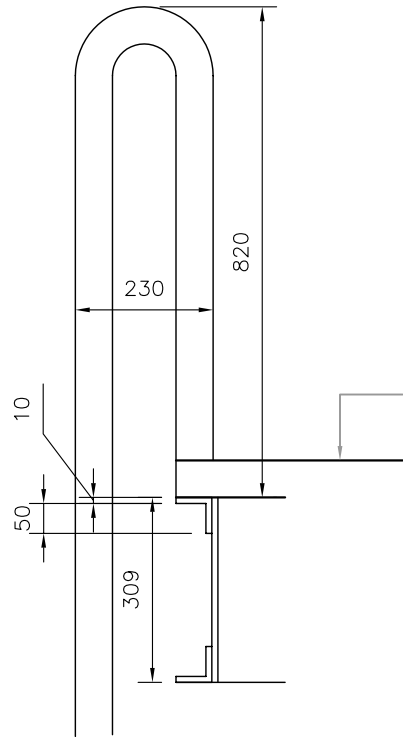
SCALE OF PLOT N.T.S.

VIEW PLOTTED Elevation

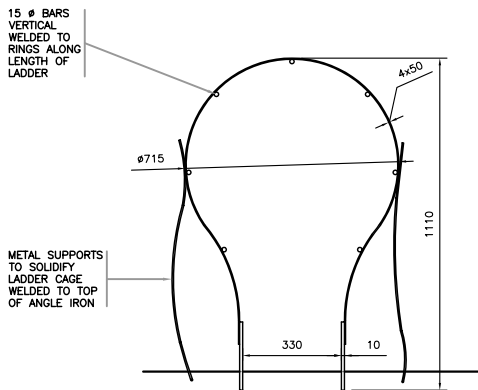
DRAWING NAME



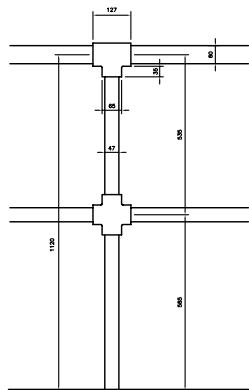
1 STORAGE SHED
H4 SCALE : 1:5



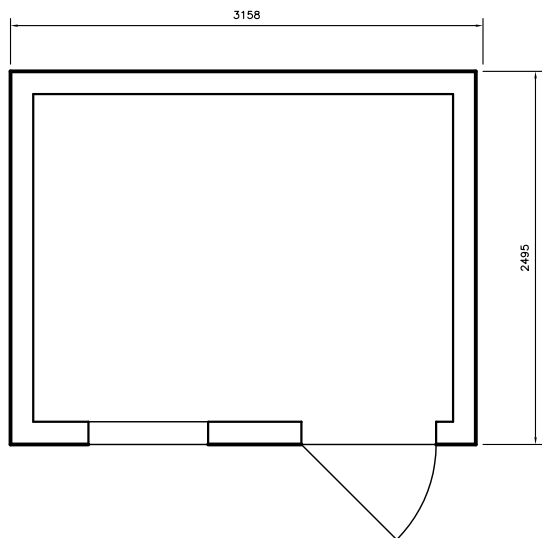
2 TOP OF LADDER
H4 SCALE : 1:5



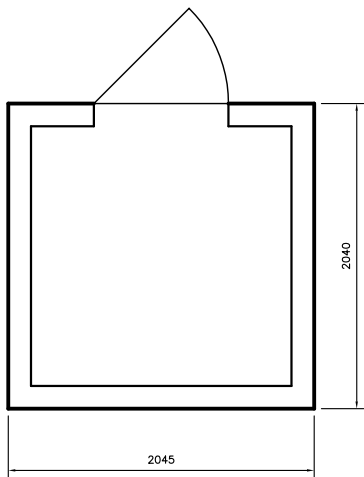
3 DECK LADDER CAGE DETAIL
H4 SCALE : 1:5



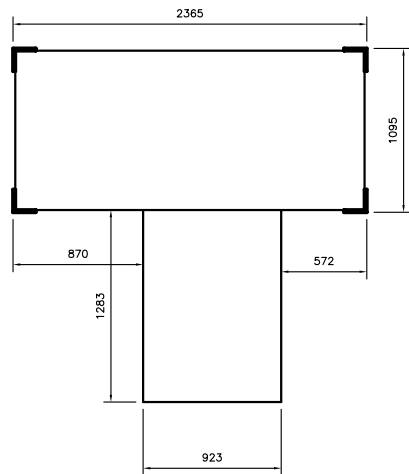
4 TYPICAL TOWER DECK RAIL DETAIL
H4 SCALE : 1:5



5 STORAGE SHED
H3 SCALE : 1:5



6 DAM CONTROL SHED
H3 SCALE : 1 : 20




7 TOWER END FRAME DETAIL
H3 SCALE : 1:5

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Révision				
A		A Detail number No. du détail		A
B		B Location dwg. no. No. sur dessin		B
C		C Drawing sheet no. No. du dessin		C

Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____

 Public Works and
Government Services
Canada
Travaux publics et
Services gouvernementaux
Canada
Ontario Region
Région de l'Ontario

Canada

Project title / Titre du projet

**HERITAGE RECORDING
BIG CHAUDIERE DAM
FRENCH RIVER**

ONTARIO

Drawing title / Titre du dessin

MISCELLANEOUS DETAILS

Scale / Echelle

AS SHOWN

Drawn by/ Dessiné par _____ Date _____

B. PRINS 2008.02.01

Designed by/ Conçu par _____ Date _____

Checked by/ Vérifié par _____ Date _____

C. A. SMITH 2009.03.26

Approved by / Approuvé par _____ Date _____

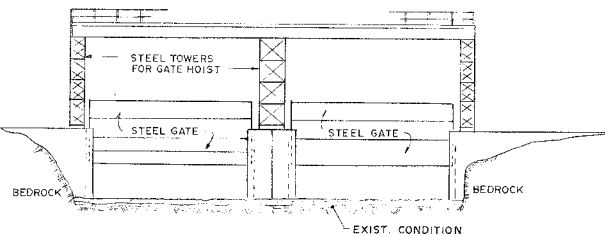
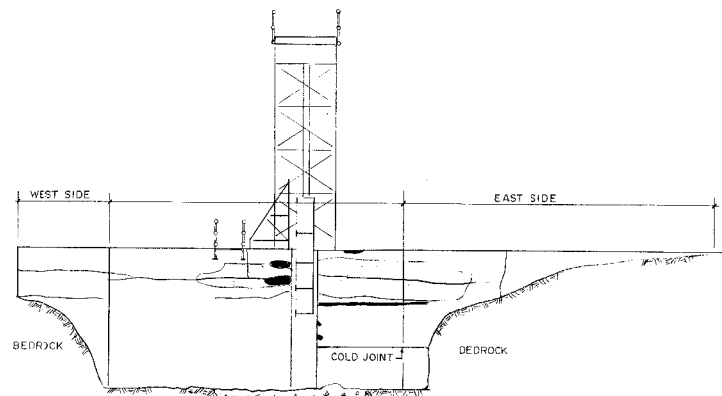
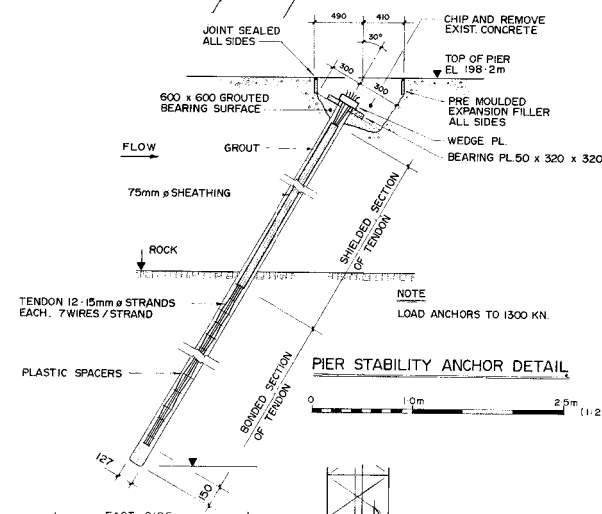
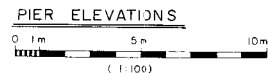
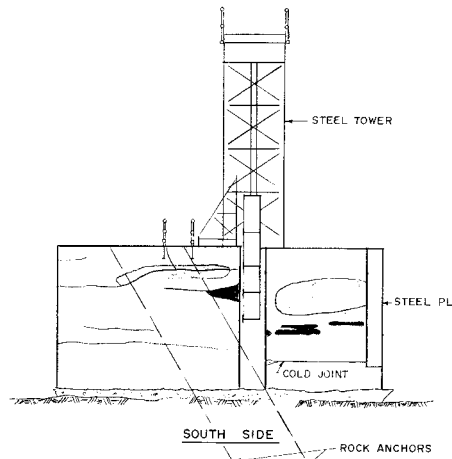
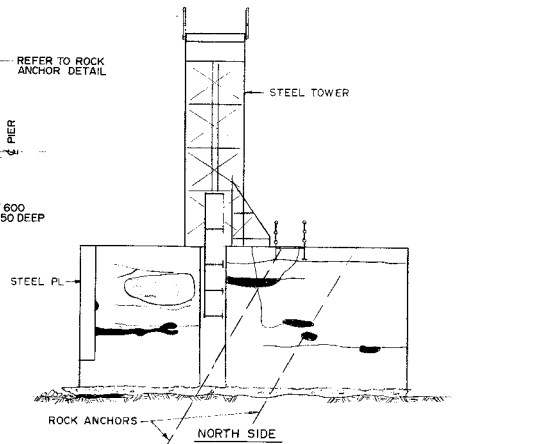
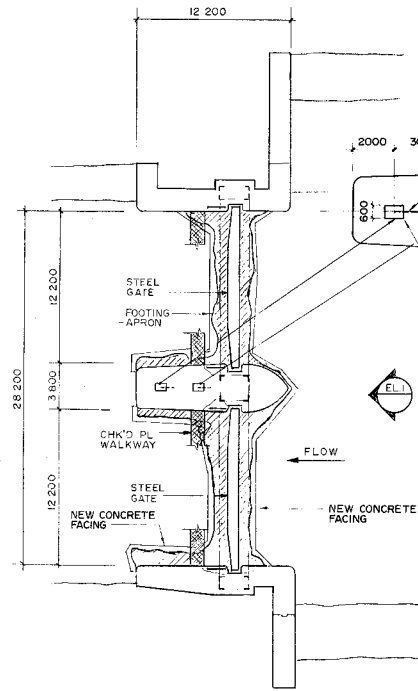
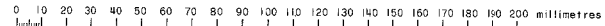
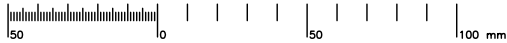
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Feuille No.

R.12000.003

Drawing Reference No./Numéro de Référence du Dessin

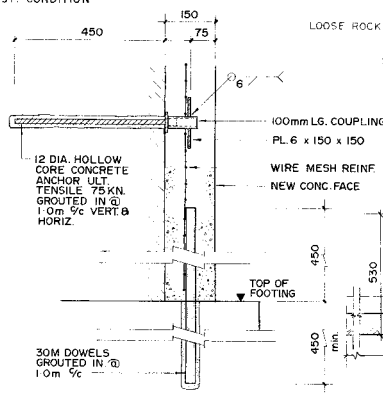
OG 08/R4

H6



LEGEND

- LARGE CRACKS
- AREA OF SMALL CRACKS
- SPALLED AREA OR DEEP SCOUR

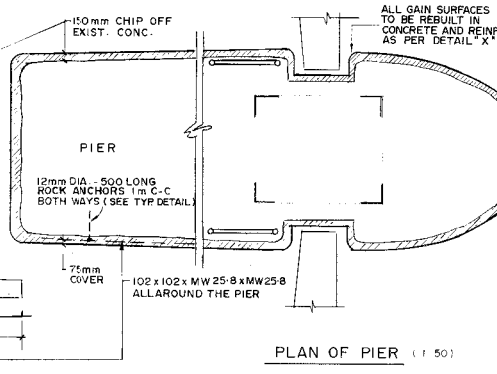


SOUTH ABUTMENT ELEVATION

(1:100)

ALL ABUTMENTS

TYPICAL CYLINDER GUIDE (1:10)



PLAN OF PIER

(1:50)

ELEVATION

Public Works Canada
Travaux publics Canada
Ontario Region Région de l'Ontario

No.	Date	Description	Drawn by	Approved

Revision / Révision	
A	Detail number No. du détail
B	Location dwg. no. No. sur dessin
C	Drawing sheet no. No. du dessin

Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada
Ontario Region Région de l'Ontario

Canada

Project title / Titre du projet
**HERITAGE RECORDING
BIG CHAUDIERE DAM
FRENCH RIVER**

Drawing title / Titre du dessin

**PLANS, ELEVATIONS, DETAILS
DIGITAL dwg. of 1986 PWGSC
dwg.**

Scale / Echelle

NOT TO SCALE

Drawn by/ Dessiné par _____ Date _____

B. PRINS 2008.01.31

Designed by/ Conçu par _____ Date _____

Checked by/ Vérifié par _____ Date _____

C. A. SMITH 2009.03.26

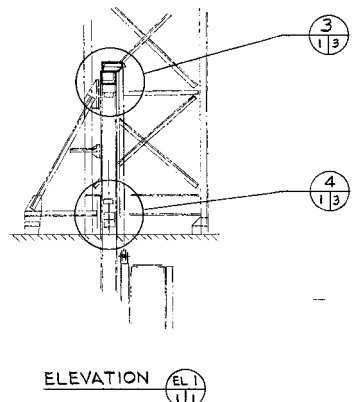
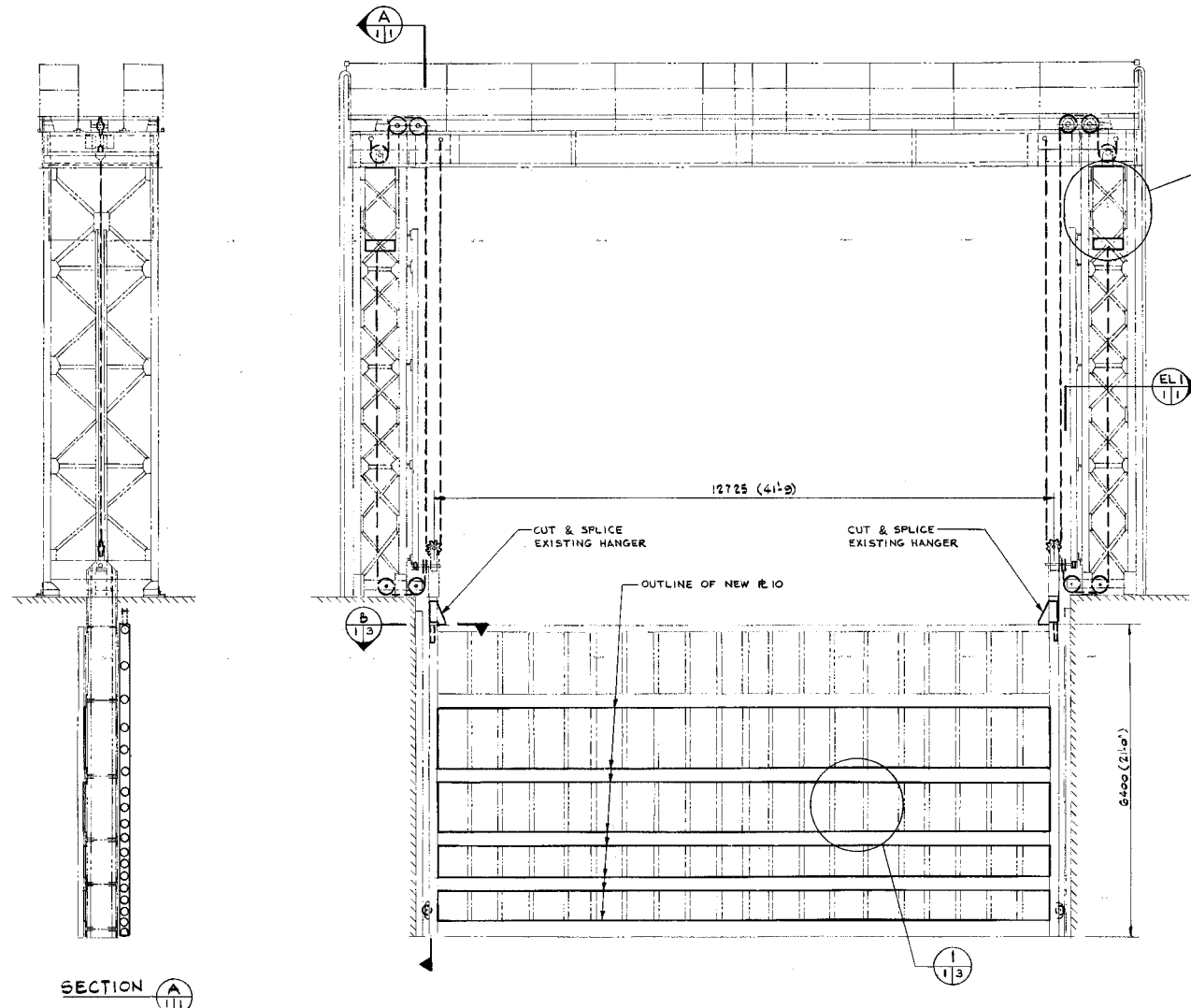
Approved by/ Approuvé par _____ Date _____

Project No./No. du projet R-12000.003 Client No./No du Client _____ Sheet No./ Feuille No. _____

Drawing Reference No./Numéro de Référence du Dessin OG 08/R4 **H7**

50 0 50 100 mm

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 millimetres



NOTES:
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DOMINION BRIDGE DWG. NOS.: 5858 E1 & E2, 5858 A & 5858 I TO I7.
2. EXISTING GATE STRUCTURE SHOWN THUS
MODIFICATIONS SHOWN THUS

ELEVATION
LOOKING DOWN STREAM
0 1 m 5 m

Public Works Canada
Travaux publics Canada
Ontario Region Région de l'Ontario

A. KING
M. WEISS

A.P.D. & ASSOCIATES
CONSULTING ENGINEERS
Member of the Stewar Worcester Group

"AS BUILT DRAWING"
87-03-05

Project title
Titre du projet
FRENCH RIVER ONT.

REPAIRS TO BIG CHAUDIERE DAMS
drawing title
Titre du dessin
SOUTH CHANNEL GATE
GENERAL ARRANGEMENT

designed by
conçu par
A. KING / M. WEISS

drawn by
dessiné par
F.W.

checked by
vérifié par
[Signature]

approved by
approuvé par

project date
date du projet
1986-02-13

project no.
no. du projet
620337

drawing no.
dessin no.
M - 1

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Révision	
A	A Detail number No. du détail
B	B Location dwg. no. No. sur dessin
C	C Drawing sheet no. No. du dessin

Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada
Ontario Region Région de l'Ontario
Canada

Project title / Titre du projet
**HERITAGE RECORDING
BIG CHAUDIERE DAM
FRENCH RIVER**

Drawing title / Titre du dessin
**SOUTH CHANNEL GATE
DIGITAL dwg. OF 1986 PWGSC
dwg. by APD ASS. CONS. ENG.**

Scale / Echelle
NOT TO SCALE

Drawn by/ Dessiné par
B. PRINS
Date
2008.01.31

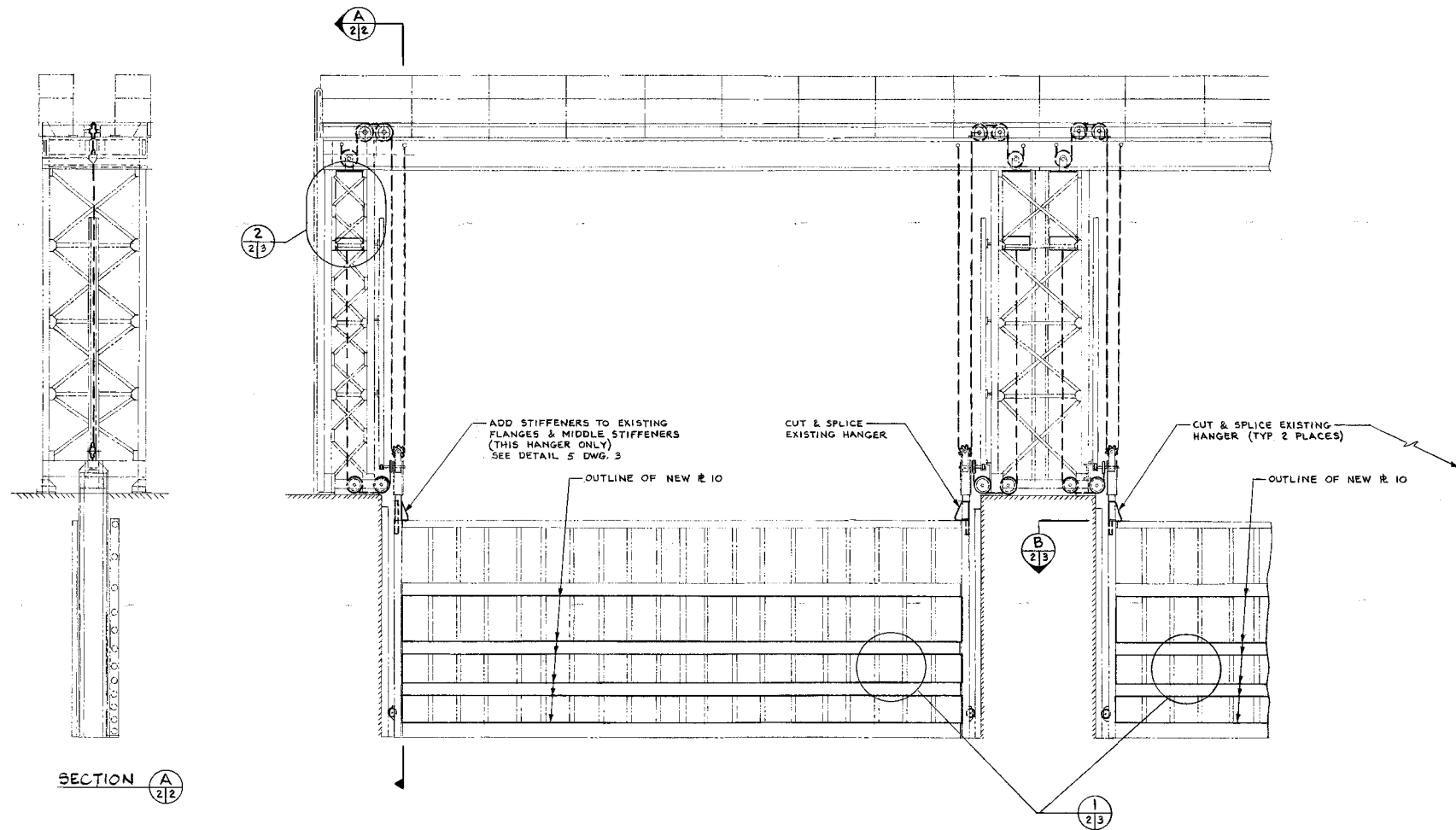
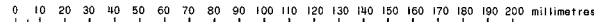
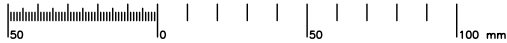
Designed by/ Conçu par
Date

Checked by/ Vérifié par
C.A. SMITH
Date
2009.03.26

Approved by / Approuvé par
Date

Project No./No. du projet R-12000.003	Client No./No du Client	Sheet No./ Feuille No. H8
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Drawing Reference No./Numéro de Référence du Dessin
OG 08/R4



ELEVATION
LOOKING DOWN STREAM



NOTES:
1. FOR GENERAL NOTES SEE DWG. M-1

Public Works Canada
Travaux publics Canada
Ontario Region Région de l'Ontario



APD & ASSOCIATES
CONSULTING ENGINEERS
Member of the Swan Wooster Group

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Révision



A Detail number
No. du détail
B Location dwg. no.
No. sur dessin
C Drawing sheet no.
No. du dessin

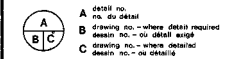


Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada
Ontario Region Région de l'Ontario

Canada

"AS BUILT DRAWING"
87-03-05



Project title
Titre du projet
FRENCH RIVER ONT.

REPAIRS TO BIG CHAUDIERE DAMS

Drawing title
Titre du dessin
NORTH CHANNEL GATES
GENERAL ARRANGEMENT

Designed by
Conçu par
A. KING / M. WEISS

Checked by
Vérifié par
F. W.

Reviewed by
Examiné par
[Signature]

Approved by
Approuvé par

Project date
Date du projet
1986-02-13

Project no.
No. du projet
620337

Drawing no.
Dessin no.
M-2

Project title / Titre du projet
HERITAGE RECORDING
BIG CHAUDIERE DAM
FRENCH RIVER

ONTARIO

Drawing title / Titre du dessin
NORTH CHANNEL GATES
DIGITAL dwg. OF 1986 PWGSC
dwg. by APD ASS. CONS. ENG.

Scale / Echelle
NOT TO SCALE

Drawn by/ Dessiné par
B. PRINS

Designed by/ Conçu par
Date

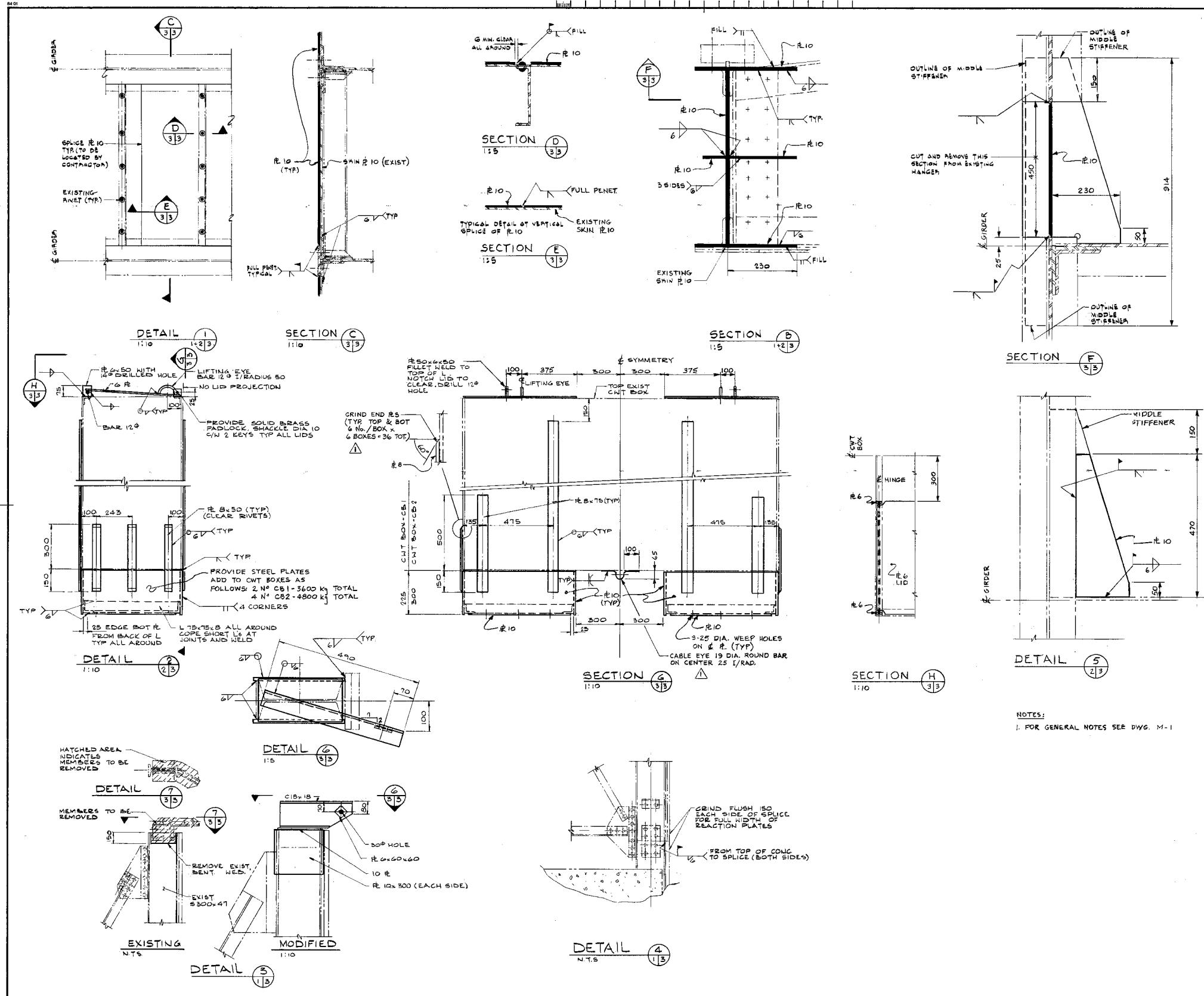
Checked by/ Vérifié par
C. A. SMITH

Approved by / Approuvé par
Date

Project No./No. du projet
R-12000.003
Client No./No du Client
OG 08/R4
Sheet No./
Feuille No.
H9

50 100 150 200 millimetres

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 millimetres



Public Works Canada
Travaux publics Canada
Ontario Region Région de l'Ontario



APD & ASSOCIATES
CONSULTING ENGINEERS
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COUNTERWEIGHT BOX
FITTINGS ADDED
FUS 1987 02 06

"AS BUILT DRAWING"
87-03-05

A detail no.
B drawing no. - where detail required
C drawing no. - where detail added

PROJECT TITLE
FRENCH RIVER ONT.

REPAIRS TO BIG CHAUDIERE DAMS

GATES
STRUCTURAL STEEL
DETAILS

designed by A. KING

drawn by F.W.

checked by

approved by

project date 1986-02-13

project no. 620337

drawing no. M-3

No. Date Description Drawn by Approved

Revision / Révision

A Detail number
B Location dwg. no.
C Drawing sheet no.

Client Acceptance / Acceptation du client
Signature Date
File No./No. de dossier

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada
Ontario Region Région de l'Ontario

Canada

Project title / Titre du projet

HERITAGE RECORDING
BIG CHAUDIERE DAM
FRENCH RIVER

ONTARIO

Drawing title / Titre du dessin

GATES, STRUCT STEEL DETAILS
DIGITAL dwg. of 1986 PWGSC
dwg. by APD ASS. CONS. ENG.

Scale / Echelle
N.T.S.

Drawn by/ Dessiné par Date

B. PRINS 2008.01.31

Designed by/ Conçu par Date

Checked by/ Vérifié par Date

C.A. SMITH 2009.03.26

Approved by/ Approuvé par Date

Project No./No. du projet Client No./No. du Client Sheet No./Feuille No.

R.12000.003 OG 08/R4 H10

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 millimetres

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 millimetres

OPERATING MACHINERY MODIFICATION LIST

ITEM	DESCRIPTION	QTY.
①	ROLLER CHAIN ASSEMBLY ANSI #240 SINGLE STRAND, 3" PITCH, RIVETED CONSTRUCTION, 125,000 MINIMUM TENSILE STRENGTH, C/W END ATTACHMENTS, UNIT LENGTH 65'-6" C/DG TO SUIT ON SITE. FULTON CHAIN CO. DWG. NO. A124001-Z	2
②	ROLLER CHAIN SPROCKET ANSI #240 SINGLE TYPE C, 3" PITCH 13.482 P.D. 2 1/16 BORE DIA. W 7/16" X 3/4" KEYWAY, AS PER PATT # 1905 A ALT - DWG. # 15/M-1041 SPROCKET TO SUIT CHAIN ABOVE	4
③	ROLLER CHAIN SPROCKET ANSI #240 SINGLE TYPE C, 3" PITCH 13.482 P.D. 2 1/16 BORE DIA. AS PER PATT # 1905 B, W BRONZE BUSHING AS PER PATT # 1906 A - DWG. # 15/M-1041 SPROCKET TO SUIT CHAIN ABOVE	4
④	SIDE ROLLERS (TOP OF GATE) AS PER DWG. 11/M-1038 - 4" Ø D (ITEM #3) C/W BRONZE BUSHING PATT # 1903 - 2 3/16" SHAFT (ITEM #3) C/W BRASS WISHERS	2
⑤	SIDE ROLLERS (BOTTOM OF GATE) AS PER DWG. 11/M-1038 - 7 1/8" DIA. ROLLER (ITEM #18) C/W BRONZE BUSHING PATT # 1902 - 1 1/16" DIA. PIN (ITEM #1) C/W WASHERS, NUTS, BOLTS # 11 - ROLLER BRACKET (ITEM #11)	2
⑥	1/2" Ø GALVANIZED WIRE ROPE FOR MAIN GUIDES 70'-0" LENGTH TO SUIT ON SITE (DWG. 15/M-1048) C/W SUPPORTING BOLTS (ITEM #1) - DWG. 11/M-1038 (REPLACE IS REQUIRED ONLY WITH SAME TYPE OR SIMILAR)	2
⑦	BEVEL PINION AS PER DWG. 14/M-1042 5 1/2" P.D. 14 TEETH, 2 1/16" BORE DIA. W KEYWAY AS PER PATT # 1911 A	2
⑧	1/2" Ø GALVANIZED WIRE ROPE FOR AULIS GUIDES 25'-0" LENGTH TO SUIT ON SITE (DWG. 15/M-1048) C/W - 2 WIRE ROPE THIMBLES (FOR 1/2" WIRE ROPE) - 3 CABLE CLIPS AT EACH END (FOR 1/2" CABLE)	2
⑨	GALVANIZED BOLT TYPE ANCHOR BUCKLE, - 30mm BOLT, 5-5TON SAFE WORKING LOAD	1
⑩	ROLLER GUIDE ASSEMBLY AS PER DWG. 11/M-1038 C/W - ROLLER GUIDE (ITEM #11) - ROLLERS (ITEM #11) 5 1/8" DIA C/W BRONZE BOLTS D.D	2
⑪	SHEAVE ASSEMBLY AS PER DWG. 11/M-1038 C/W - BEAT SHEAVE PLATE (ITEM #11) C/W BOLTS - 6" Ø SHEAVE (PATT # 1951 A) C/W BRONZE BUSHING (PATT # 1954) - 1 1/16" PIN (ITEM #4) C/W BRASS WASHERS	2
⑫	SHEAVE ASSEMBLY AS PER DWG. 11/M-1038 C/W - 12" Ø DIA. SHEAVE, W 1 1/16" BORE, PATT # 1950 A - BRONZE BUSHING, PATT # 1953 - 1 1/16" DIA. PIN (ITEM #5) - 4 BRASS WASHERS	2
⑬	SHEAVE ASSEMBLY AS PER DWG. 11/M-1038 C/W - 12" Ø DIA. SHEAVE, W 2 1/16" BORE, PATT # 1950 A - BRONZE BUSHING, PATT # 1953	2

NOTES:
1. FOR GENERAL NOTES SEE DWG. M-

Public Works Canada
Travaux publics Canada
Ontario Region Région de l'Ontario



APD & ASSOCIATES
CONSULTING ENGINEERS
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MOD. LIST REVISED
PJS 1987 02 06

No.	Date	Description	Drawn by <i>Designé par</i>	Approved <i>Approuvé</i>	
Revision / Révision					
<div><div><div>A</div><div>C</div></div><div>A Detail number No. du détail</div><div>B Location dwg. no. No. sur dessin</div><div>C Drawing sheet no. No. du dessin</div></div> <div><div><div>A</div><div>B</div><div>C</div></div></div>					
Client Acceptance / Acceptation du client					
Signature _____			Date _____		
File No./No. de dossier _____					

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada
Ontario Region Région de l'Ontario

Canada

"AS BUILT DRAWING"
87-03-05

Project title
FRENCH RIVER ONT.

REPAIRS TO BIG CHAUDIERE DAMS
OPERATING MACHINERY MODIFICATIONS
SOUTH CHANNEL

designed by M. WEISS
drawn by C.R.
checked by
approved by
project date 1986-02-13
project no. 620337
drawing no. M-4

Project title / Titre du projet
HERITAGE RECORDING
BIG CHAUDIERE DAM
FRENCH RIVER

Drawing title / Titre du dessin
OP. MACH. MOD. SOUTH CHAN.
DIGITAL dwg. of 1986 PWGSC
dwg. by APD ASS. CONS. ENG.

Scale / Echelle
NOT TO SCALE
Drawn by/ Dessiné par B. FRIS
Designed by/ Conçu par
Checked by/ Vérifié par C. A. SMITH
Approved by/ Approuvé par

Project No./No. du projet R.12000.003
Client No./No du Client
Sheet No./ Feuille No.
Drawing Reference No./Numéro de Référence du Dessin OG 08/R4
H11

TIME PLOTTED

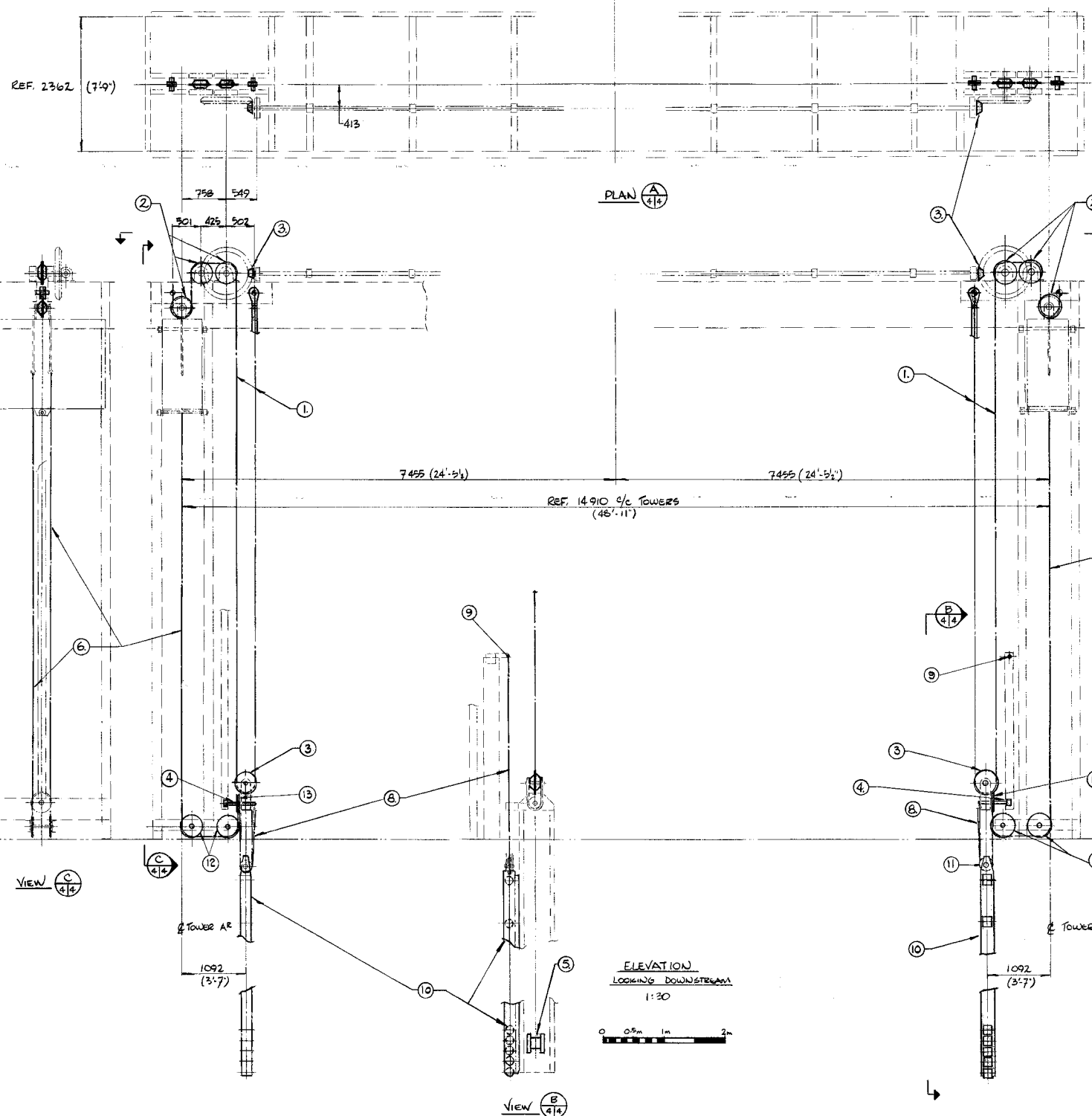
DATE PLOTTED

PERSON PLOTTING

SCALE OF PLOT

VIEW PLOTTED

DRAWING NAME



ELEVATION
LOOKING DOWNSTREAM
1:30
0 0.5m 1m 2m

PWC B1

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 millimetres

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 millimetres

OPERATING MACHINERY MODIFICATION LIST

ITEM	DESCRIPTION	QTY.
1	ROLLER CHAIN ASSEMBLY ANSI #140, SINGLE STRAND, 3' PITCH, ANVISED CONSTRUCTION. 130,000 LB. AVERAGE TENSILE STRENGTH, C/W END ATTACHMENTS. UNIT LENGTH 55' 1/2" C TO C. TO SUIT ON SITE. PULTON CHAIN CO. DWG. NO. A124001-Z	4
2	ROLLER CHAIN SPROCKET ANSI #140 SINGLE TYPE C, 3' PITCH, 13.482" P.D., 2 1/2" BORE DIA. W/1/2" X 3/4" KEYWAY, AS PER PATT. # 1065 H - DWG. # 15/M-1041 SPROCKET TO SUIT CHAIN ABOVE	8
3	ROLLER CHAIN SPROCKET ANSI #140 SINGLE TYPE C, 3' PITCH, 13.482" P.D., 2 1/2" BORE DIA. AS PER PATT. # 1065 H - DWG. # 15/M-1041 SPROCKET TO SUIT CHAIN ABOVE	8
4	SIDE ROLLERS (TOP OF GATE) DWG. 11/M-1038 - 2 1/2" DIA. (ITEM A3) C/W BRONZE BUSHING PATT. # 1063 - 2 3/4" SHAFT (ITEM F8) C/W BRASS WASHERS	4
5	SIDE ROLLERS (BOTTOM OF GATE) DWG. 10/M-1038 - 2 1/2" DIA. ROLLER (ITEM A3) C/W BRONZE BUSHING PATT. # 1062 - 1 1/2" DIA. PIN (ITEM F1) C/W WASHERS, NUTS, BOLTS B 11 - ROLLER BRACKET (ITEM B41)	4
6	5/8" GALVANIZED WIRE ROPE FOR MAIN GUIDES 50'-0" LENGTH TO SUIT ON SITE (DWG. 13/M-1048) C/W SUPPORTING BOLTS (ITEM 11) DWG. 11/M-1038 (REPLACE IF REQUIRED ONLY WITH SAME TYPE OR SIMILAR)	4
7	BEVEL PINION DWG. 10/M-1048 3 1/2" P.D., 1 1/4" BORE DIA. W KEYWAY AS PER PATT. # 1071 H	4
8	1/2" GALVANIZED WIRE ROPE FOR ROLLER GUIDES 25'-0" LENGTH, TO SUIT ON SITE (DWG. 13/M-1048) C/W - 2 WIRE ROPE THIMBLES (FOR 1/2" WIRE ROPE) - 3 CAD. S CLIPS AT EACH END (FOR 1/2" CAD. S)	4
9	SHEAVE ASSEMBLY AS PER DWG. 11/M-1038 C/W - 1 1/2" DIA. SHEAVE W 1 1/2" BORE PATT. # 1050 H - BRONZE BUSHING PATT. # 1050 H - 1 1/2" DIA. PIN (ITEM F8) - 4 BRASS WASHERS	16
10	SHEAVE ASSEMBLY AS PER DWG. 11/M-1038 C/W - 1 1/2" DIA. SHEAVE W 2 1/2" BORE PATT. # 1049 H - BRONZE BUSHING PATT. # 1050	4

NOTES:

1. FOR GENERAL NOTES SEE DWG. M-1

Public Works Canada
Travaux publics Canada
Ontario Region Région de l'Ontario



A.P.D. & ASSOCIATES
CONSULTING ENGINEERS
Member of the Swan Wooster Group
MOD. LIST REVISED
PJS 1987 02 06

"AS BUILT DRAWING"
87-03-05

Project title / Titre du projet
FRENCH RIVER ONT.

REPAIRS TO BIG CHAUDIERE DAMS

OPERATING MACHINERY MODIFICATIONS
NORTH CHANNEL

Designed by / Conçu par
M. WEISS

Drawn by / Dessiné par
C. R.

Reviewed by / Vérifié par
[Signature]

Approved by / Approuvé par
[Signature]

Project date / Date du projet
1986-02-13

Project no. / No. du projet
620337

Drawing no. / Dessin no.
M - 5

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
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Revision / Révision				
A		A Detail number / No. du détail		
B		Location dwg. no. / No. sur dessin		
C		Drawing sheet no. / No. du dessin		

Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada
Ontario Region Région de l'Ontario

Canada

Project title / Titre du projet
HERITAGE RECORDING
BIG CHAUDIERE DAM
FRENCH RIVER

Ontario

Drawing title / Titre du dessin
OP. MACH. MOD. NORTH CHAN.
DIGITAL dwg. of 1986 PWGSC
dwg. by APD ASS. CONS. ENG.

Scale / Echelle
NOT TO SCALE

Drawn by / Dessiné par
B. PRINS Date
2008.01.31

Designed by / Conçu par
Date

Checked by / Vérifié par
C.A. SMITH Date
2009.03.26

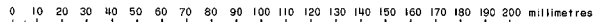
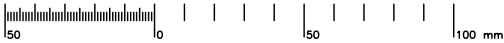
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Date

Project No./No. du projet
R.12000.003

Client No./No du Client

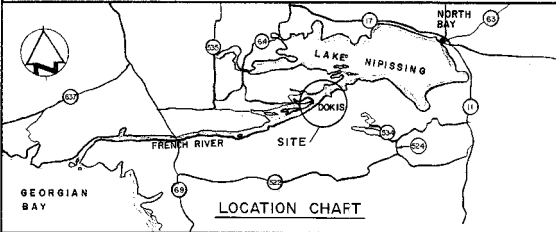
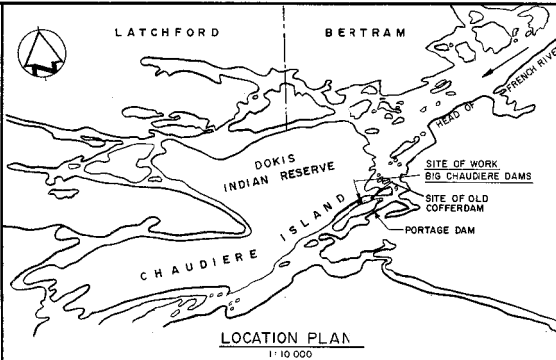
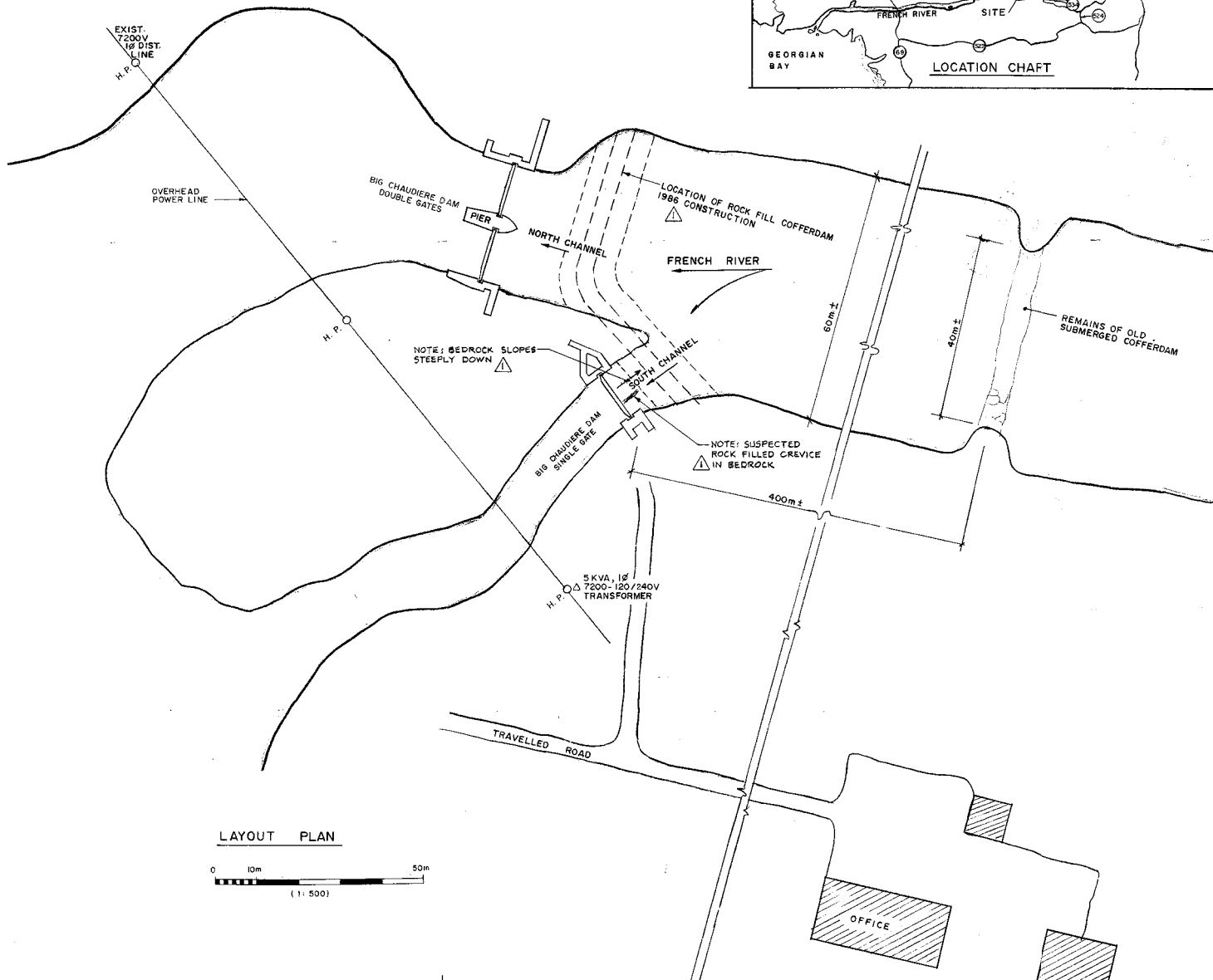
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OG 08/R4

Drawing Reference No./Numéro de Référence du Dessin
H12



DRAWING INDEX

DRAWING No.	DRAWING TITLE
MC-1	LOCATION CHART, LOCATION PLAN, LAYOUT PLAN
MC-2	PLAN, ELEVATION, DETAILS
MC-3	PLAN, ELEVATIONS, DETAILS
M-1	SOUTH CHANNEL GATE GENERAL ARRANGEMENT
M-2	NORTH CHANNEL GATE GENERAL ARRANGEMENT
M-3	GATES STRUCTURAL STEEL DETAILS
M-4	OPERATING MACHINERY MODIFICATIONS SOUTH CHANNEL
M-5	OPERATING MACHINERY MODIFICATIONS NORTH CHANNEL
1509	LAKE NIPISSING WATER LEVEL CONTROL (Attached to specifications)



Public Works
Canada
Ontario Region

PROJ. NO.
PUBLIC WORKS
LIBRARY
1986 05 05
3495
ONTARIO REGION
TORONTO

COFFERDAM LOCATION
SHOWN
PJS 1987 02 06

"AS BUILT DRAWING"
87-03-05

A detail no.
B drawing no. - where detail required
C drawing no. - where detail not required

project title
FRENCH RIVER

REPAIRS TO BIG CHAUDIERE DAMS

LOCATION CHART
LOCATION PLAN
LAYOUT PLAN

designed by
P. SHIMAN

drawn by
V. M. M.

reviewed by
P. SHIMAN

approved by
P. SHIMAN

project date
1986-02-13

project no.
620337

drawing no.
MC-1

No.	Date	Description	Drawn by	Approved

Revision / Révision	
A	A Detail number
B	B Location dwg. no.
C	C Drawing sheet no.

Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____

Public Works and
Government Services
Canada
Ontario Region

Canada

Project title / Titre du projet
HERITAGE RECORDING
BIG CHAUDIERE DAM
FRENCH RIVER

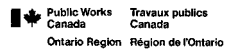
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LOC. CHART, LOC. PLAN,
LAYOUT PLAN, DIGITAL dwg. of
1986 PWGSC dwg.

Scale / Echelle	NOT TO SCALE
Drawn by/ Dessiné par	Date
B. PRINS	2008.01.31
Designed by/ Conçu par	Date
Checked by/ Vérifié par	Date
C. A. SMITH	2009.03.26
Approved by/ Approuvé par	Date

Project No./No. du projet
R.12000.003

Client No./No du Client
OG 08/04

Sheet No./
Feuille No.
H13



revisions

NOTES & BOREHOLES ADDED

PJS 1987.02.06

No.	Date	Description	Drawn by Dessine par	Approved Approuve
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Revision / Révision

A Detail number
No. du détail

B Location dwg. no.
No. sur dessin

C Drawing sheet no.
No. du dessin

Client Acceptance / Acceptation du client

Signature _____ Date _____
File No./No. de dossier _____

 Public Works and
Government Services
Canada

Ontario Region Région de l'Ontario

Canada

"AS BUILT DRAWING"
87-03-05

A detail no.
no. du détail

B drawing no. - where detail required
dessin no. - où détail exigé

C drawing no. - where detailed
dessin no. - où détaillé

project title
titre du projet
FRENCH RIVER **ONT.**

REPAIRS TO BIG CHAUDIERE
DAMS

PLAN
ELEVATIONS
DETAILS

designed by
conçu par P. SIMAN

drawn by designé par	V. M. M.	Drawing title / Titre du dessin PLAN, ELEVATION, DETAILS DIGITAL dwg. of 1986 PWGSC dwg.
reviewed by révisé par	<i>[Signature]</i>	
approved by approuvé par	<i>[Signature]</i>	
checked by vérifié par	<i>[Signature]</i>	

1986-02-13	Scale / Échelle
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project no.
no. du projet

NOT TO SCALE

630337 Drawn by/ Dessiné par _____ Date _____

drawing no. desain no.	B. PRINS	2008.01.31
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MC- 2	Designed by/ Conçu par	Date
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Checked by/ Vêrifié par	Date
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C.A. SMITH 2009.03.26

Approved by / Approuvé par		Date
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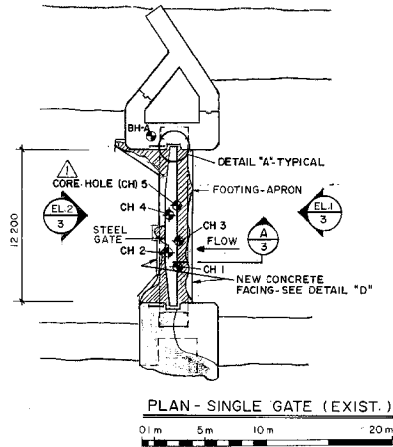
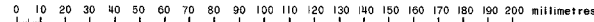
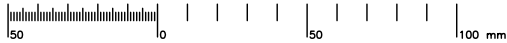
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R.12000.003	

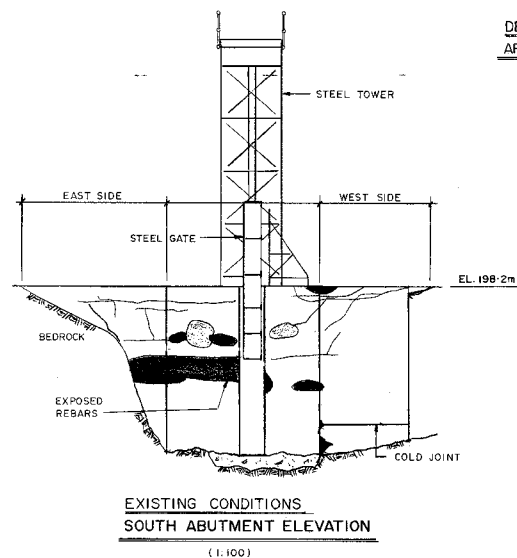
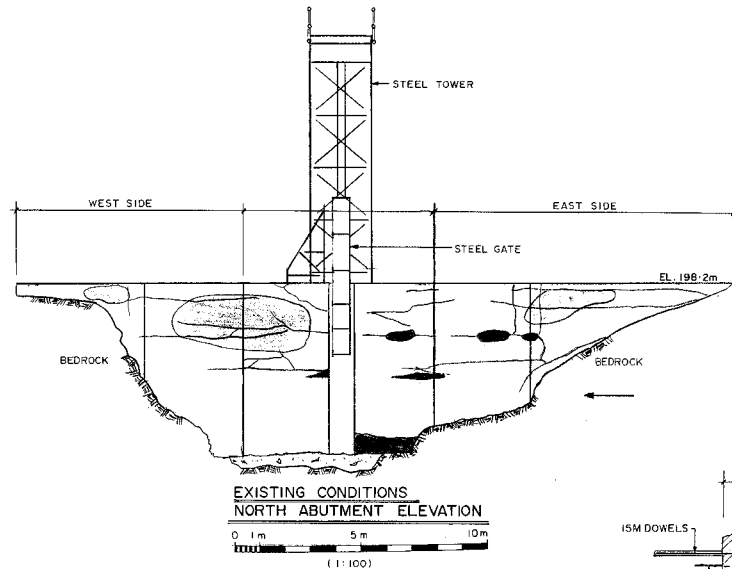
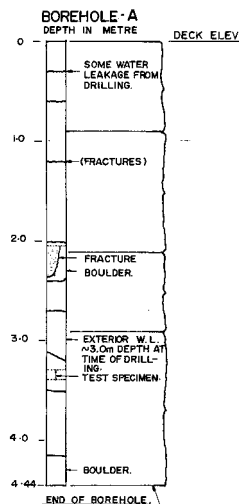
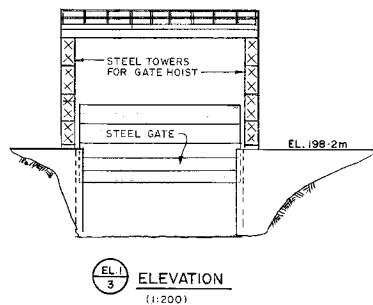
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OG 08/R4

	00 00/11	
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NOTE-BOREHOLE-A
1 THESE DETAILS INDICATE VARIABLE COARSE AGGREGATES RANGING FROM GRAVEL SIZES UP TO A 450mm BOULDER.
2 A SAMPLE OF CONCRETE WAS SELECTED AT A DEPTH OF 3.3m AND TESTED FOR RELATIVE COMPRESSIVE STRENGTH AND DENSITY.
RELATIVE COMPRESSIVE STRENGTH 36.9 MPa
RELATIVE DENSITY 2365 Kg/m³

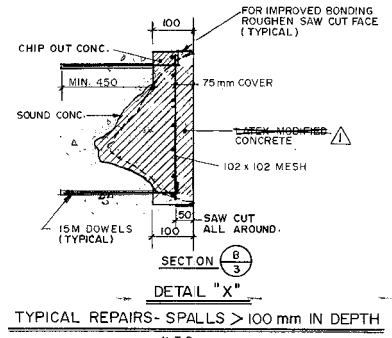
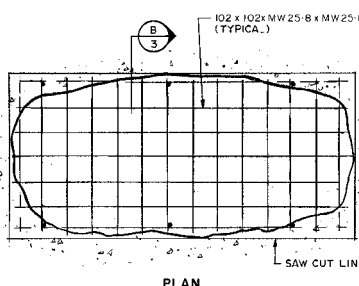
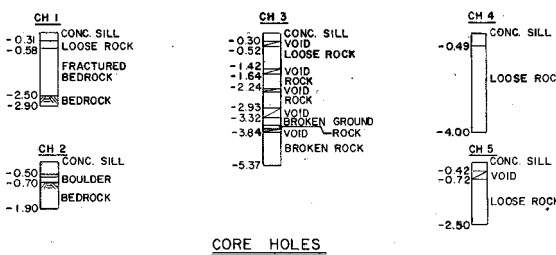
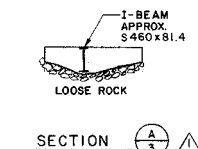
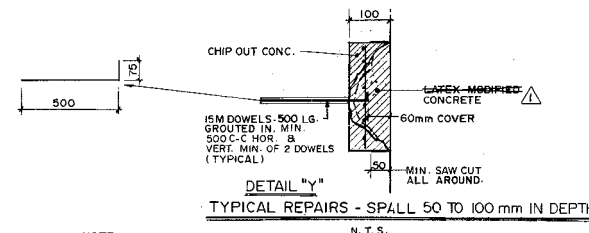
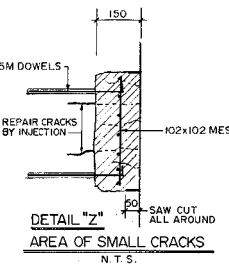


EXTENT OF REPAIRS (ABUTMENTS)

AREA TO BE REPAIRED

- LARGE CRACKS - REFER TO NOTE ①
- AREA OF SMALL CRACKS - REFER TO DETAIL "Z"
- SPALLED AREA OR DEEP SCOUR - REFER TO DETAILS "X" & "Y"

NOTE ① CRACK REPAIRS AT ABUTMENTS AND TOP OF PIER
- ALL CRACKS TO 7mm IN WIDTH SEALED WITH EPOXY INJECTION.
- ALL CRACKS GREATER THAN 7 mm SEALED WITH LATEX-MODIFIED GROUT INJECTION.
CONC. FACES TO BE CHIPPED OUT FIELD DETERMINED BY THE ENGINEER.



Public Works Canada / Travaux publics Canada
Ontario Region / Région de l'Ontario

1 CORE HOLES ADDED
SECTION A ADDED
EL. 2 REVISED
PJS 1987 02 06

"AS BUILT DRAWING"
87-03-05

A detail no.
B drawing no. - where detail required
C drawing no. - where detail required

project title
FRENCH RIVER

REPAIRS TO BIG CHAUDIERE DAMS

PLAN ELEVATIONS, DETAILS

designed by
P. SHIMAN

drawn by
V. M. M.

checked by
P. SHIMAN

approved by
P. SHIMAN

project date
1986-02-13

project no.
620337

drawing no.
MC-3

No.	Date	Description	Drawn by	Approved

Revision / Révision	
A	Detail number
B	Location dwg. no.
C	Drawing sheet no.

Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada
Ontario Region / Région de l'Ontario

Canada

Project title / Titre du projet
**HERITAGE RECORDING
BIG CHAUDIERE DAM
FRENCH RIVER**

Ontario

Drawing title / Titre du dessin
**PLAN, ELEVATIONS, DETAILS
DIGITAL dwg. of 1986 PWGSC
dwg.**

Scale / Echelle
NOT TO SCALE

Drawn by/ Dessiné par
B. PRINS

Designed by/ Conçu par
Date

Checked by/ Vérifié par
C. A. SMITH

Approved by/ Approuvé par
Date

Project No./No. du projet
R-12000.003

Client No./No du Client
OG 08/R4

Sheet No./
Feuille No.
H15



TIME PLOTTED .pm

DATE PLOTTED 2008.02.01

PERSON PLOTTING J. McKay

SCALE OF PLOT 1 : 1

VIEW PLOTTED Plot

DRAWING NAME Big C Photo Key Plan

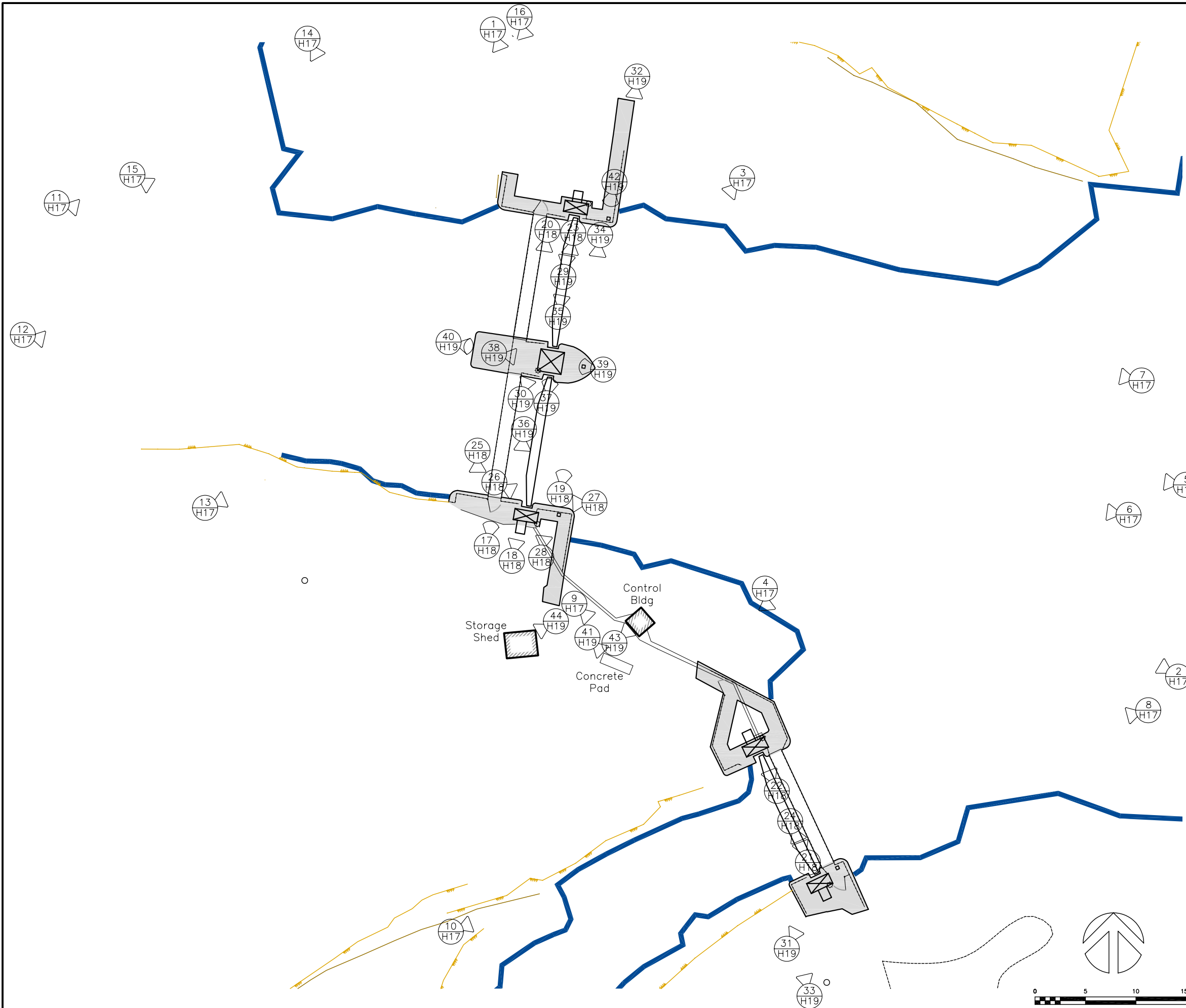


PHOTO SYMBOL INDEX

CAMERA HORIZONTAL

CAMERA LOOKING UP

CAMERA LOOKING DOWN

PHOTO NUMBER

PAGE NUMBER IN PHOTO REPORT

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
Revision / Révision				

A Detail number
No. du détail

B Location dwg. no.
No. sur dessin

C Drawing sheet no.
No. du dessin

Client Acceptance / Acceptation du client

Signature _____ Date _____

File No./No. de dossier _____

Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

Ontario Region
Région de l'Ontario

Canada

Project title / Titre du projet

HERITAGE RECORDING
BIG CHAUDIÈRE DAM
FRENCH RIVER

ONTARIO

Drawing title / Titre du dessin

PHOTO KEY PLAN

Scale / Echelle

1 : 150

Drawn by/ Dessiné par J.N. McKay Date 2008.01.31

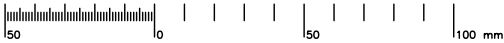
Designed by/ Conçu par Date

Checked by/ Vérifié par C.A. Smith Date 2009.03.26

Approved by / Approuvé par Date

Project No./No. du projet R.12000.003 Client No./No du Client Sheet No./ Feuille No.

Drawing Reference No./Numéro de Référence du Dessin OG 08/R5 H16



1
H16 MACHINERY BRIDGE DECK AND ACCESS WALKWAY



2
H16 NORTH DAM UPSTREAM FACE



3
H16 NORTH DAM UPSTREAM FACE



4
H16 SOUTH DAM UPSTREAM FACE



5
H16 NORTH DAM UPSTREAM FACE



6
H16 NORTH DAM UPSTREAM FACE - SOUTH SLUICE



7
H16 NORTH DAM UPSTREAM FACE - SOUTH SLUICE



8
H16 SOUTH DAM UPSTREAM FACE



9
H16 SOUTH DAM LOOKING SOUTH



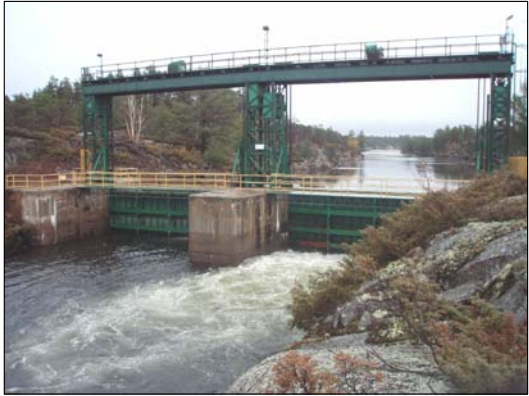
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H16 SOUTH DAM DOWNSTREAM FACE



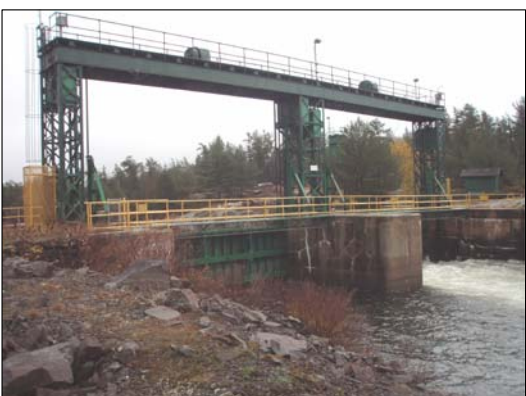
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H16 NORTH DAM DOWNSTREAM FACE - NORTH SLUICE



12
H16 NORTH DAM DOWNSTREAM FACE - SOUTH SLUICE



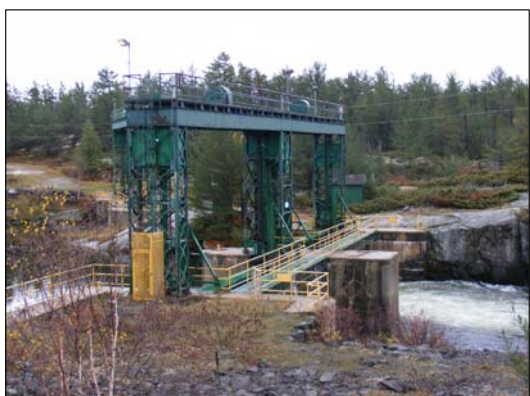
13
H16 NORTH DAM DOWNSTREAM FACE



14
H16 NORTH DAM DOWNSTREAM FACE



15
H16 NORTH DAM DOWNSTREAM FACE




16
H16 NORTH DAM DOWNSTREAM FACE - LOOKING SOUTH

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Révision				
A	A Detail number No. du détail			
	B Location dwg. no. No. sur dessin			
	C Drawing sheet no. No. du dessin			

Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____

 Public Works and
Government Services
Canada
Travaux publics et
Services gouvernementaux
Canada
Ontario Region
Région de l'Ontario



Project title / Titre du projet
**HERITAGE RECORDING
BIG CHAUDIÈRE DAM
FRENCH RIVER**

ONTARIO

Drawing title / Titre du dessin
PHOTOS 1-16

Scale / Echelle NOT TO SCALE	
Drawn by/ Dessiné par J.N. McKAY	Date 2008.01.31
Designed by/ Conçu par	Date
Checked by/ Vérifié par C. A. Smith	Date 2009.03.26
Approved by / Approuvé par	Date

Project No./No. du projet R-12000.003	Client No./No du Client	Sheet No./ Feuille No. H17
Drawing Reference No./Numéro de Référence du Dessin OG 08/R4		

TIME PLOTTED

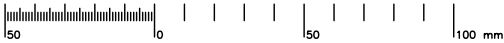
DATE PLOTTED 2008.02.01

PERSON PLOTTING J. McKAY

SCALE OF PLOT N.T.S.

VIEW PLOTTED Photos

DRAWING NAME



TIME PLOTTED

DATE PLOTTED 2008.02.01

PERSON PLOTTING J. MCKAY

SCALE OF PLOT N.T.S.

VIEW PLOTTED Photos

DRAWING NAME



17 NORTH DAM - ACCESS WALKWAY
H16



18 NORTH DAM - MACHINERY BRIDGE
H16



19 NORTH DAM - MACHINERY BRIDGE GUARDRAIL
H16



20 NORTH DAM - CENTRE PIER & ACCESS WALKWAY
H16



21 FLOOD LIGHT & SOUTH DAM MACHINERY BRIDGE
H16



22 FLOOD LIGHT & NORTH DAM MACHINERY BRIDGE
H16



23 NORTH DAM - MACHINERY BRIDGE AND MOTOR DRIVES
H16



24 FLOOD LIGHT & SOUTH DAM MACHINERY BRIDGE
H16



25 TOWER LATERAL SUPPORT AND FOOTING
H16



26 CHAIN SPROCKET AND GATE GUIDE ASSEMBLY
H16



27 GATE HANGER AND CHAIN SPROCKET
H16



28 TOWER FOOTING AND GATE LIFTING CHAIN
H16

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Révision

A Detail number
No. du détail
B Location dwg. no.
No. sur dessin
C Drawing sheet no.
No. du dessin

A
B C

Client Acceptance / Acceptation du client

Signature _____ Date _____

File No./No. de dossier _____



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

Ontario Region

Région de l'Ontario

Canada

Project title / Titre du projet

HERITAGE RECORDING
BIG CHAUDIÈRE DAM
FRENCH RIVER

ONTARIO

Drawing title / Titre du dessin

PHOTOS

Scale / Echelle

NOT TO SCALE

Drawn by/ Dessiné par

J. N. McKAY

Designed by/ Conçu par

C. A. Smith

Approved by / Approuvé par

OG 08/R4

Date

2008.01.31

Date

2009.03.26

Date

Project No./No. du projet

R-12000.003

Drawing Reference No./Numéro de Référence du Dessin

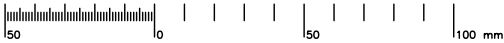
OG 08/R4

Client No./No du Client

Sheet No./

Feuille No.

H18



29
H16 TOWER FOOTING



30
H16 TOWER LATERAL SUPPORT – NORTH DAM
NORTH ABUTMENT TOWER WITH ELECTRICAL CONTROL



31
H16 PANEL IN YELLOW CAGE ENCLOSURE



32
H16 ELECTRICAL CONTROL PANEL WITH CAGE ENCLOSURE



33
H16 SOUTH DAM: ROLLER GATE, DOWNSTREAM VIEW



34
H16 NORTH DAM: CENTRE PIER, UPSTREAM VIEW



35
H16 NORTH DAM NORTH ABUTMENT
SHOWING GATE GAIN AND TOWER



36
H16 NORTH DAM – SOUTH ABUTMENT
SHOWING GATE HANGER AND TOWER



37
H16 COUNTERWEIGHT GUIDE CABLE AND SHEAVES



38
H16 CENTRE TOWER CROSS-BRACE WITH GATE GUIDE
ASSEMBLY (TOP) AND COUNTERWEIGHT SHEAVES



39
H16 PULLEYS AND CABLES (GATELIFTING MACHINERY)



40
H16 COUNTERWEIGHTS AND CENTRE TOWER



41
H16 CONCRETE FOUNDATION NORTH OF SOUTH DAM



42
H16 BOLLARD (MOORING POST)



43
H16 ELECTRICAL POWER CONTROL BUILDING



44
H16 MAINTENANCE EQUIPMENT STORAGE SHED

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Révision				
A	A Detail number No. du détail			
B	B Location dwg. no. No. sur dessin			
C	C Drawing sheet no. No. du dessin			

Client Acceptance / Acceptation du client
Signature _____ Date _____
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Public Works and
Government Services
Canada
Travaux publics et
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Canada
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Région de l'Ontario

Canada

Project title / Titre du projet
**HERITAGE RECORDING
BIG CHAUDIÈRE DAM
FRENCH RIVER**

ONTARIO

Drawing title / Titre du dessin
PHOTOS

Scale / Echelle NOT TO SCALE	
Drawn by/ Dessiné par J.N. McKay	Date 2008.01.31
Designed by/ Conçu par	Date
Checked by/ Vérifié par C.A. Smith	Date 2009.03.26
Approved by / Approuvé par	Date

Project No./No. du projet R.12000.003	Client No./No du Client	Sheet No./ Feuille No.
Drawing Reference No./Numéro de Référence du Dessin OG 08/R4		H19

TIME PLOTTED

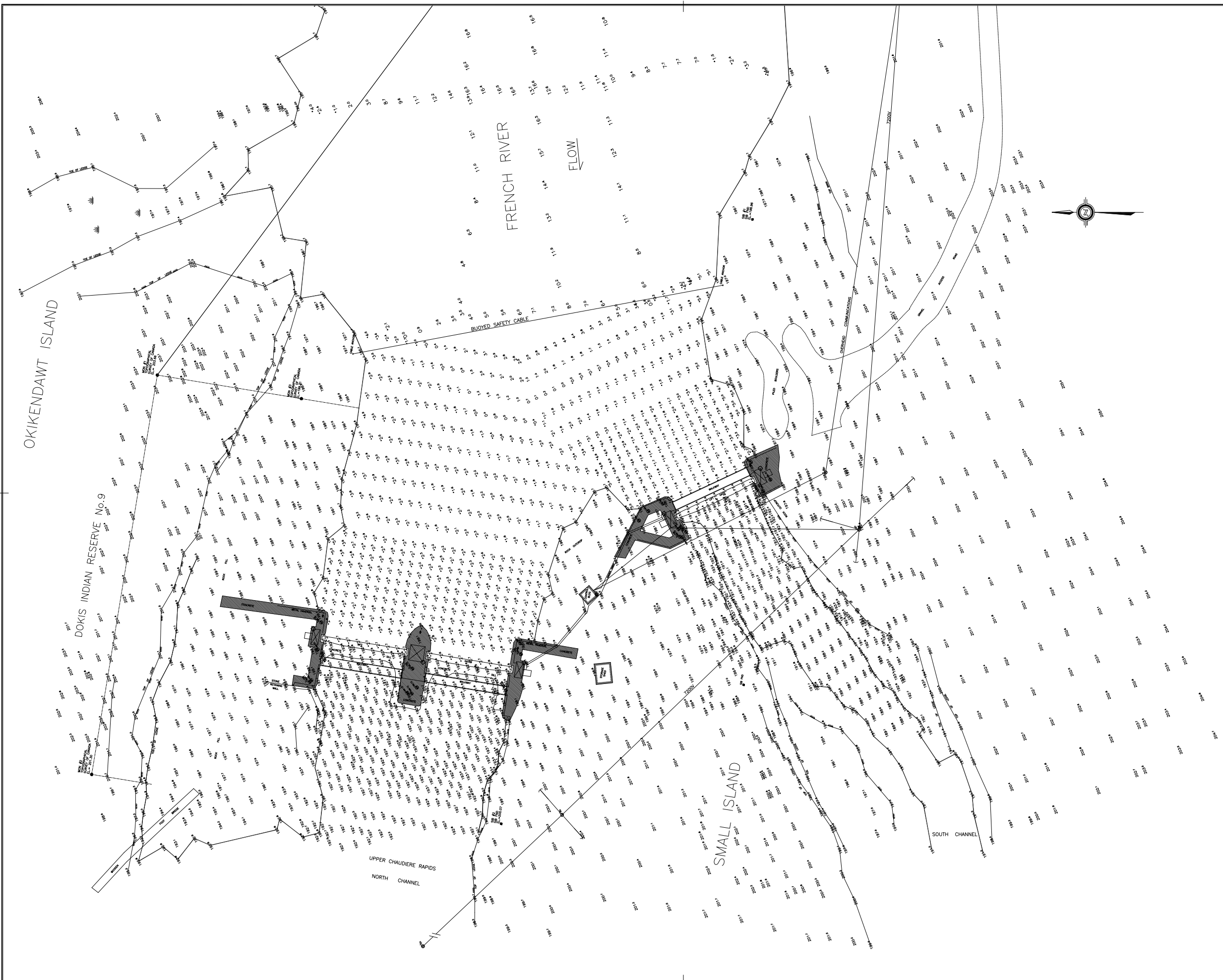
DATE PLOTTED 2008.02.01

PERSON PLOTTING J. McKay

SCALE OF PLOT N.T.S.

VIEW PLOTTED Photos

DRAWING NAME



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

revisions

revisions	date
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legend

	INTERNATIONAL BOUNDARY
	CHANNEL LIMIT
	CHANNEL CENTERLINE
	SURVEY BASELINE
	SUBMERGED DEPTH CONTOUR
	PROPERTY BOUNDARY
	SHORELINE
	SOUNDING DEPTH BELOW CHART DATUM
	DRY SOUNDING
	HORIZONTAL CONTROL POINT
	HORIZONTAL CONTROL POINT PWC
	DREDGE LIMIT CONTROL POINT
	BUOY
	NAVIGATION LIGHT
	BOREHOLE

scale

1:200

THIS DRAWING IS IN METRIC UNITS

map info

GEODETIC DATUM : NAD83
MAP PROJECTION : UTM
ZONE : 17

REFERENCE STATIONS:

PT. NAME	EASTING	NORTHING	CD ELEV	DESCR.
MON #1	575762.28	5108528.08	203.66	T.S.C.
MON #2	575702.21	5108537.95	201.30	T.S.C.
MON #3	575758.70	5108506.40	199.31	T.S.C.
SIB #1	575785.68	5108438.52	196.96	T.S.C.

VERTICAL DATUM: WATER SURVEY OF CANADA
REFERENCE BENCHMARKS:

BM. NAME	ELEVATION	DESCRIPTION
B.M. #1	196.83 m	W.S.C.

GAUGE AT TIME(S) OF SURVEY: VARIED BETWEEN +5.5m & +5.7m

ALL SOUNDINGS ARE IN METRES AND REFERENCED TO GAUGE DATUM FOR: FRENCH RIVER AT LAKE NIPISSING OUTLET 190.0m

notes

SURVEY PARTY CHIEF: J.C. HALLIDAY
SURVEY VESSEL : 14' WARRIORCRAFT
SURVEY DATE(S): 98.05.11 TO 98.05.28, 98.06.16, 17, 18

SOUNDER TYPE: RAYTHEON 7198/DOOM DIGITRACE, LEADLINE
SOUNDER SETTING: N/A VEL. OF SOUND: 1419 M/S
DEPTH GATE USED: N/A FREQ. OF TRANS: 210 KHZ

POSITIONING SYSTEM USED: HYDRO II
LAND SURVEY POSITION BY: NIKON 57M730

OFFICE PROCESSOR: J.C. HALLIDAY
DATE OF PROCESSING: 98.06.03 TO 98.06.19

MODE OF PLOTTING: N/A
MATRIX CELL WIDTH X LENGTH: N/A

* THE SOUNDING INFORMATION REPRESENTS RESULTS OF THE SURVEY MADE ON THE DATE(S) SPECIFIED AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THAT TIME

	A	Detail No.
	B	No. du detail
	C	drawing no. - where detail required
		dessin no. - ou detail existe
		drawing no. - where detailed
		dessin no. - ou détaillé

Project title
titre du projet

FRENCH RIVER ONTARIO

drawing title
titre du dessin

TOPOGRAPHIC/SOUNDING
SURVEY-BIG CHAUDIERE DAMS
MAY 1998

designed by
conç. par

GEORGE P. McFARLANE O.L.S., C.L.S.

drawn by
dessiné par

J.C. HALLIDAY

reviewed by
examiné par

GEORGE P. McFARLANE O.L.S., C.L.S.

approved by
approuvé par

ENN LEESTI

project date
date du projet

JUNE 23, 1998

project no.
no. du projet

100371

drawing no.
dessiné no.

HS001