Parks Canada Parcs Canada

Canada

Engineering Inspection of Dams

Haliburton Sector

Appendix B

Haliburton Dams Background Information

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Kennisis Lake Dam**	AMS Number :	**11400**
Comments / Description	Concrete Gravity Dam (+?)		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Kennisis Lake Rd via CR 7		
Topographic Map	031E02 (Haliburton)	Coordinates (dd/mm/ss)	N 45° 12' 56"
			W 78° 39' 47"
Drainage basin	Gull River		
Name of watercourse	Kennisis River	Approximative elevation	≈ 373 m
Name of lake / reservoir	Kennisis Lake (& Little Kennisis)		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	4.56	m	Year of construction	1950
Height of the reservoir	4.3	m	Year of rehabilitation	-
Length of structure	38.76	m	Drawings and/or specifications	Available
Area of the reservoir	1641	ha		
Storage capacity	≈ 65M	m^3	Classification (PCA)	High A
Catchment area	-	km^2	Overall condition	C
			Category	Regulated Dam

Main use(s): Navigation Storage

Replacement cost: 79500 *according to AMS Data dating from :* 1997

Deffered Maintenance: -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

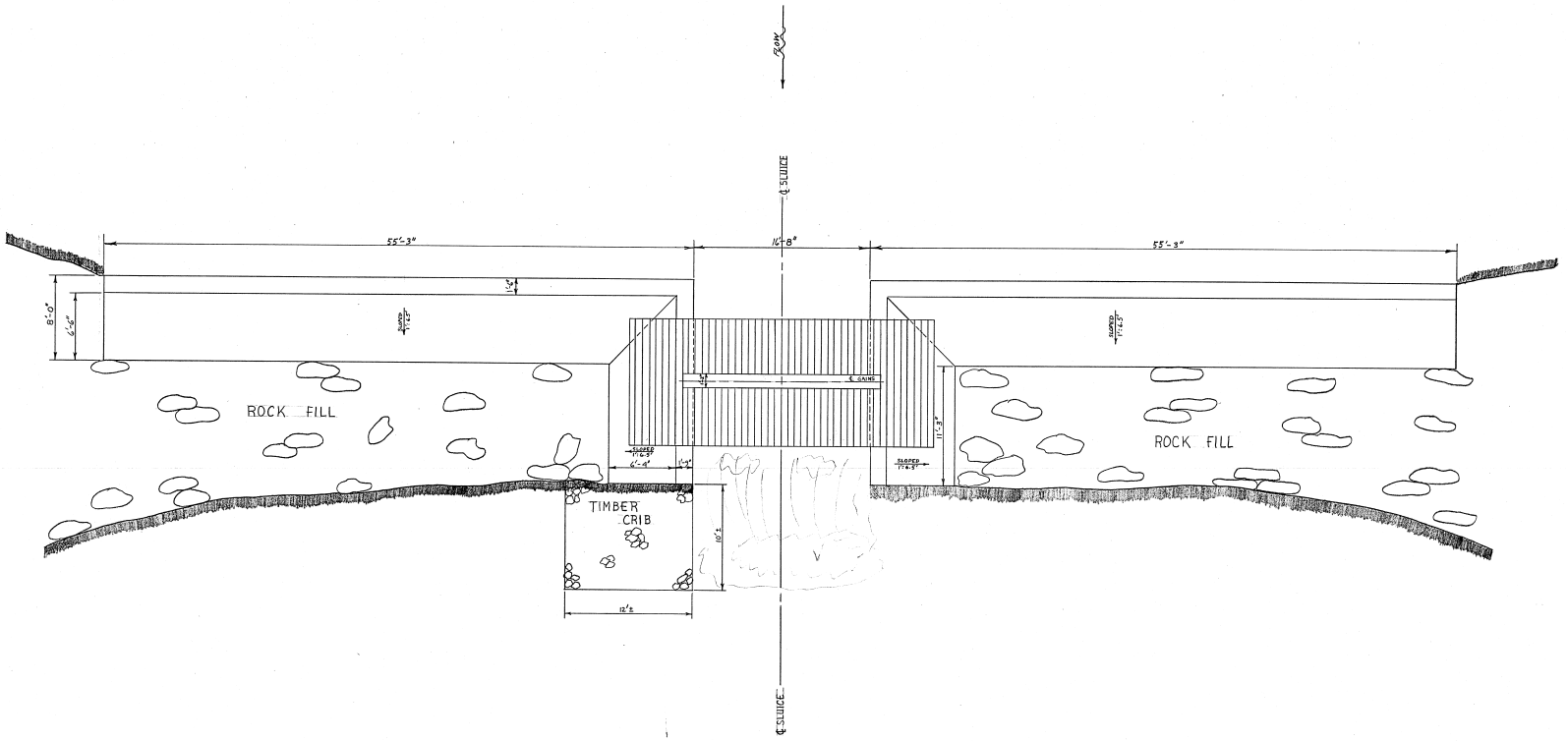
Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -



DEPARTMENT OF TRANSPORT

MARINE WORKS

CANALS DIVISION

TRENT CANAL SYSTEM

KENNISIS LAKE DAM

SCALE: 1" = 5'-0"

DESIGN:

DRAWN: W.H.C.

CHECKED:

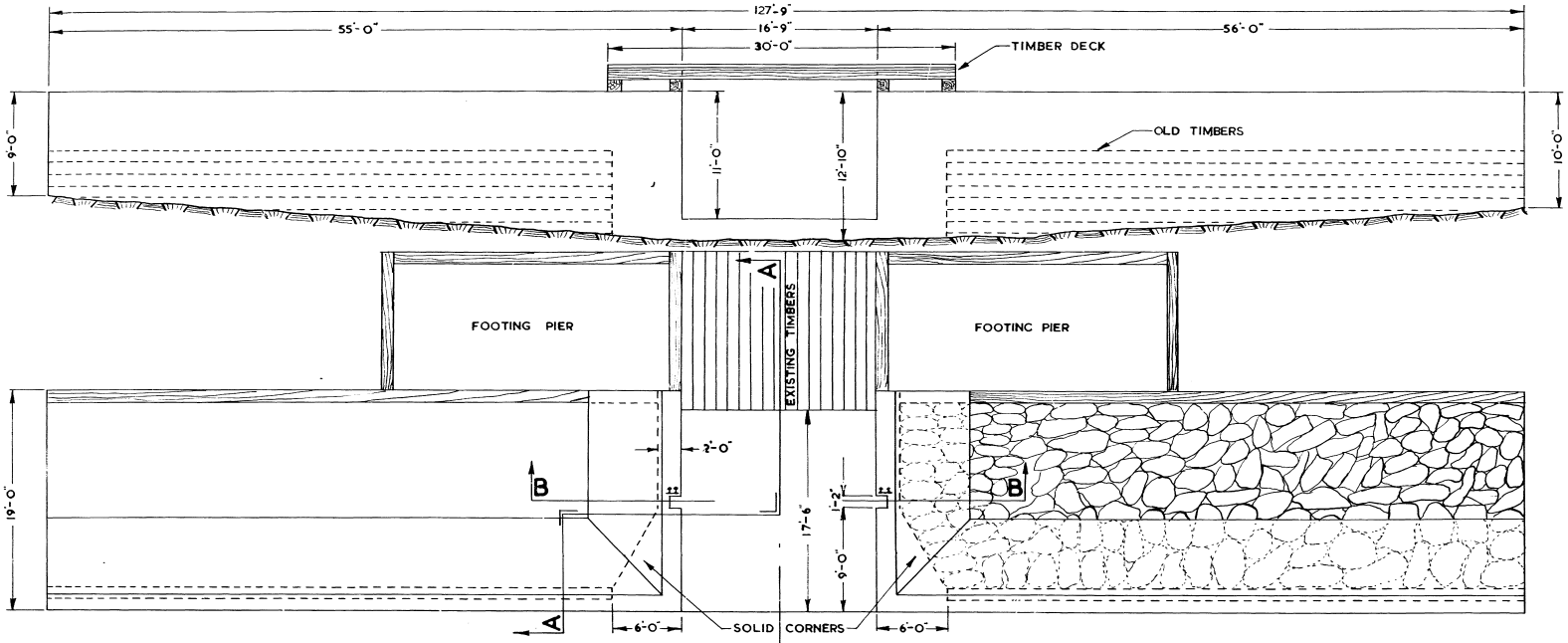
DATE: JULY / 1972

SUPERINTENDING ENGINEER

T.C. 4180 - G

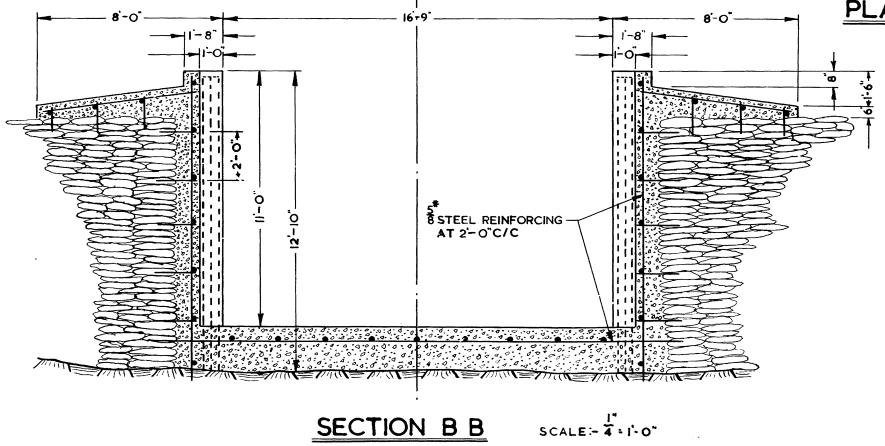
DATE:	REVISIONS:	MADE:	CH'CK'D:

DIETZGEN 330 372

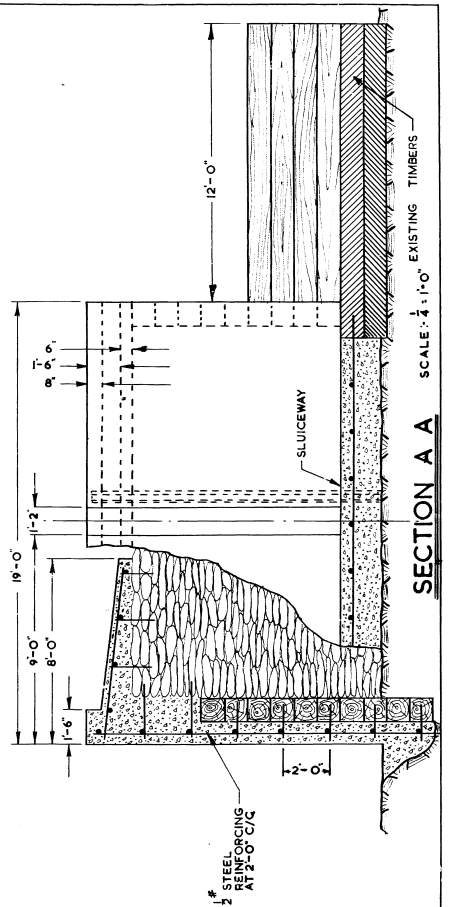


PLAN & ELEVATION OF DAM

SCALES:- $\frac{1}{8}$: 1'-0"



SECTION B B SCALE:- $\frac{1}{4}$: 1'-0"



SECTION A A SCALE:- $\frac{1}{4}$: 1'-0"

MADE BY	
TRACED BY	
CHECKED BY	M&C
RECOMMENDED BY	
APPROVED BY	

DEPARTMENT OF TRANSPORT
TRENT CANAL

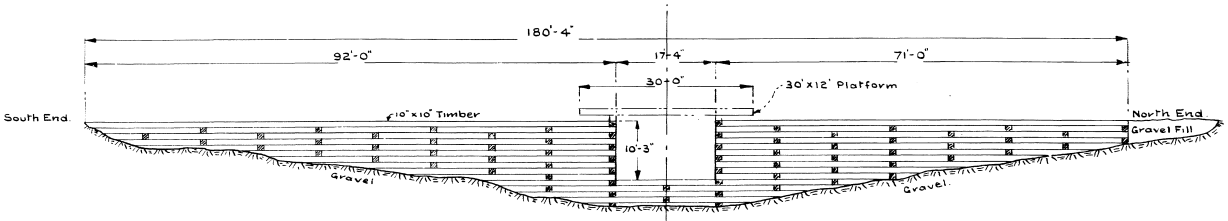
KENESIS LAKE DAM
AS RECONSTUCTED 1950

SCALE:- VAR

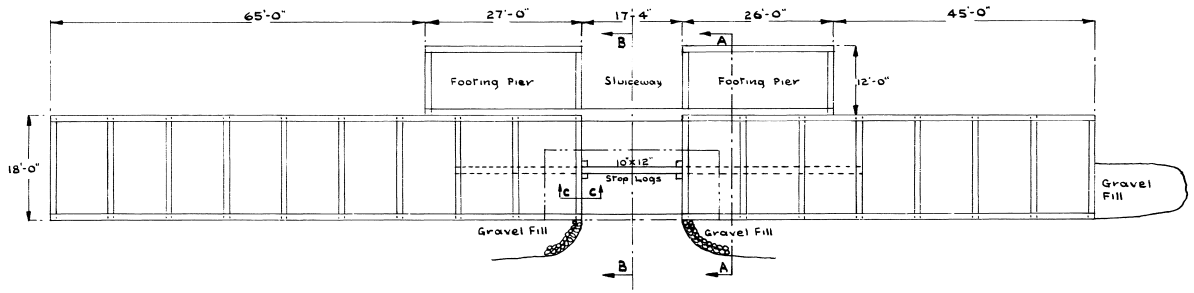
SUPERINTENDING ENGINEER
PETERBOROUGH ONT. MAY 12TH 1950

TC1570-C

T- 11-1924

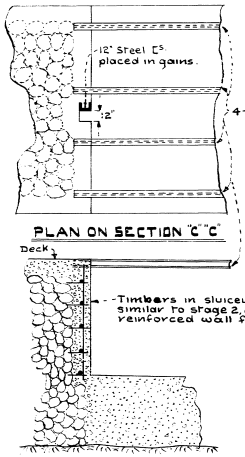


UPSTREAM ELEVATION



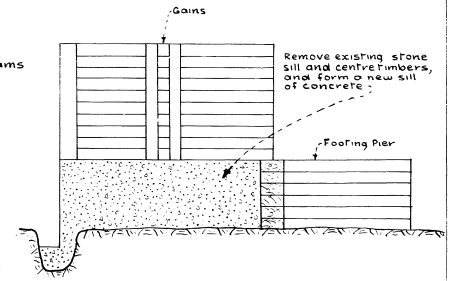
PLAN AND ELEVATION OF EXISTING TIMBER DAM

Scale:- 1/16" = 1'



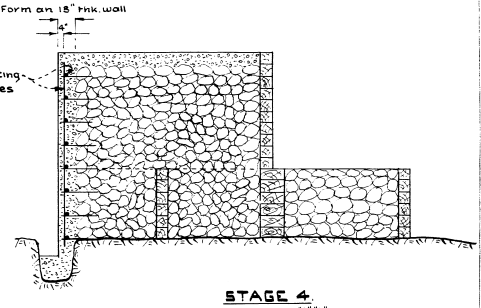
PLAN ON SECTION "C"C"

STAGE 6
SECTION "C"C"

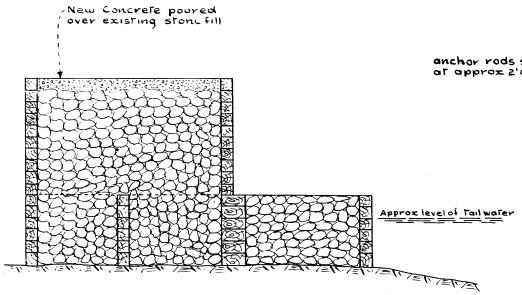


STAGE 5
SECTION "B"B"

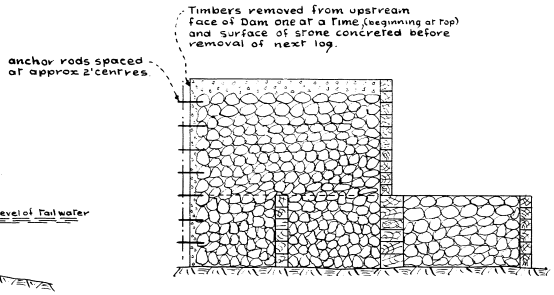
Note:- Stage 7- Operating platform on the dam to be replaced in timber



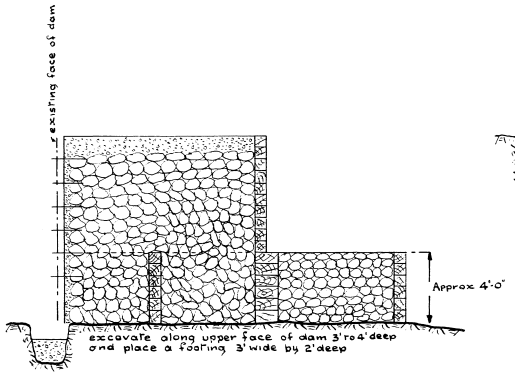
STAGE 4
SECTION "A"A"



STAGE 1.
SECTION "A"A"



STAGE 2.
SECTION "A"A"



STAGE 3.
SECTION "A"A"

PROPOSED STAGES IN REPAIRING TIMBER DAM WITH CONCRETE

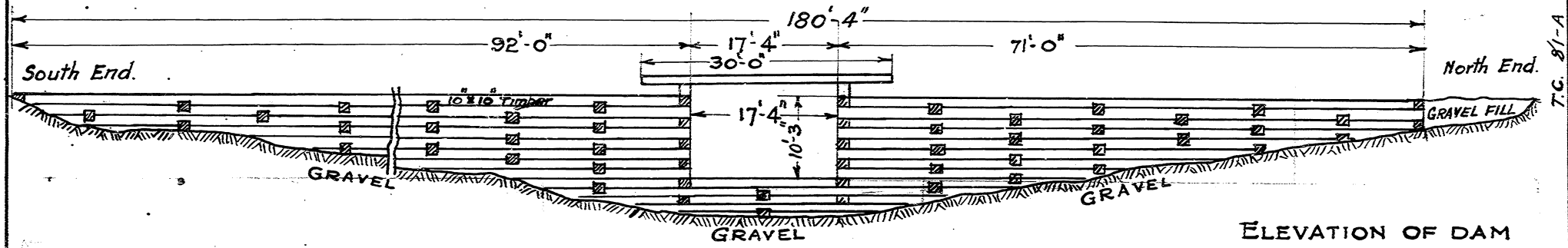
Scale:- 1/8" = 1'

DEPARTMENT OF TRANSPORT
TRENT CANAL
PLAN SHOWING
PROPOSED METHOD OF RECONSTRUCTION OF
KENISIS LAKE DAM
SCALE AS SHOWN.

Superintending Engineer
Peterborough Ont. July 26th 1950

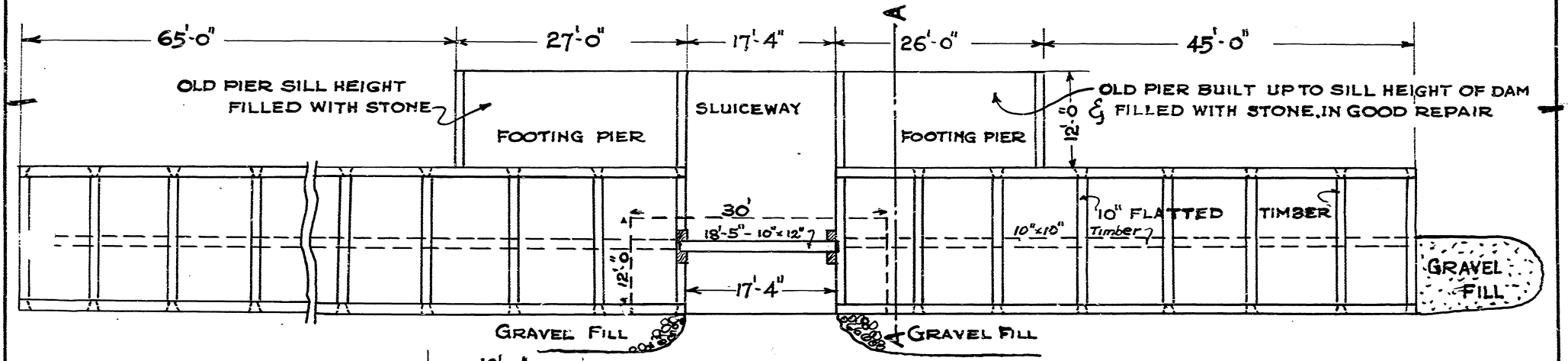
TC1437-C

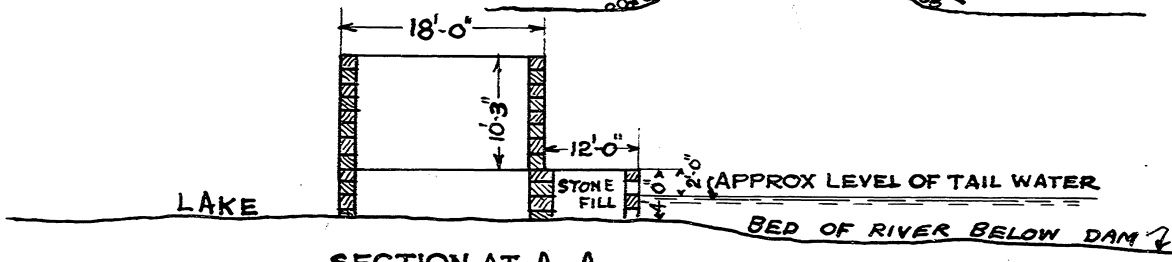
T-11-199.2



ELEVATION OF DAM
SCALE 1/16 IN. = 1 FT.

T.C. 81-A





SECTION AT A-A

TRENT CANAL
KENISIS LAKE TIMBER DAM
DAM ON LOT 5, CON. 3,
HAVELOCK TP.
Scale 1/16 in. = 1 ft.
T.C. 81-A Oct. 11th, 1932

T-11-199.1

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Red Pine Lake Dam aka Paint**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Northwest Side of Red Pine Lake		
Topographic Map	-	Coordinates (dd/mm/ss)	N 45° 12' 40"
			W 78° 42' 54"
Drainage basin	Gull River		
Name of watercourse	-	Approximative elevation	- m
Name of lake / reservoir	Red Pine Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	4.6	m	Year of construction	1972	
Height of the reservoir	-	m	Year of rehabilitation	-	
Length of structure	31	m	Drawings and/or specifications	-	
Area of the reservoir	385	ha			
Storage capacity	-	m^3	Classification (PCA)	Low	
Catchment area	-	km^2	Overall condition	-	
			Category	-	

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

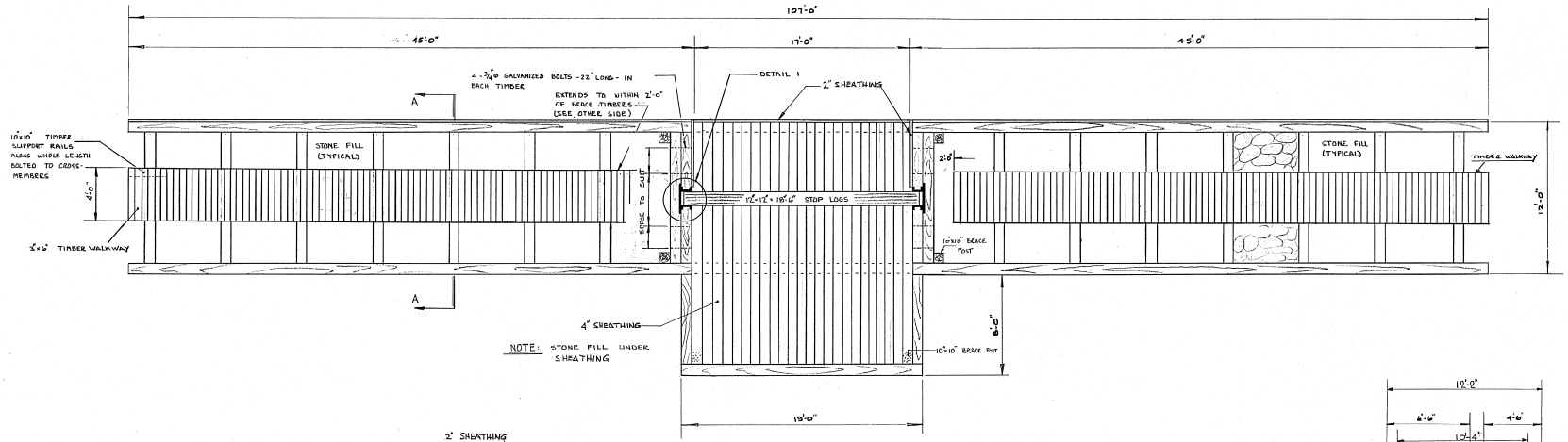
Comments -

SECTION X - REQUIRED DOCUMENTS

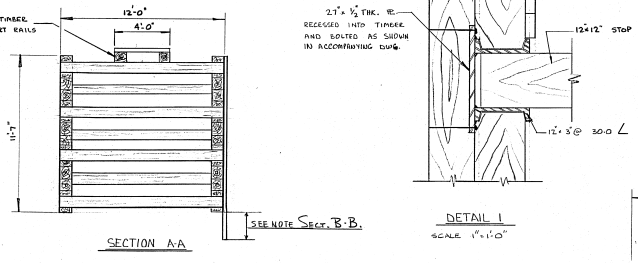
DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

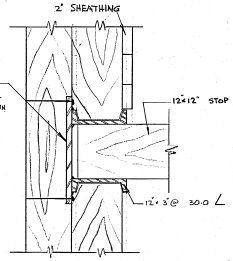
Last Engineering inspection by : - Date : - -



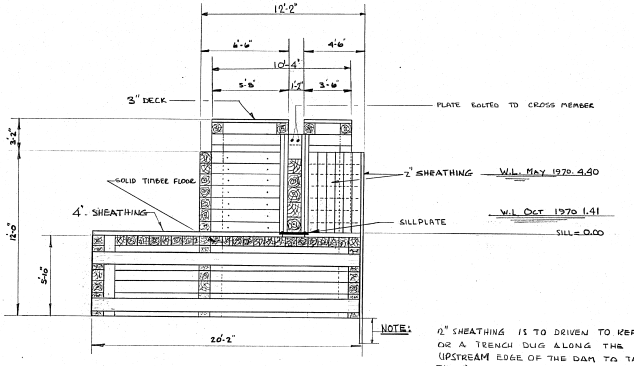
PLAN VIEW (PLATFORM NOT SHOWN)



SECTION A-A

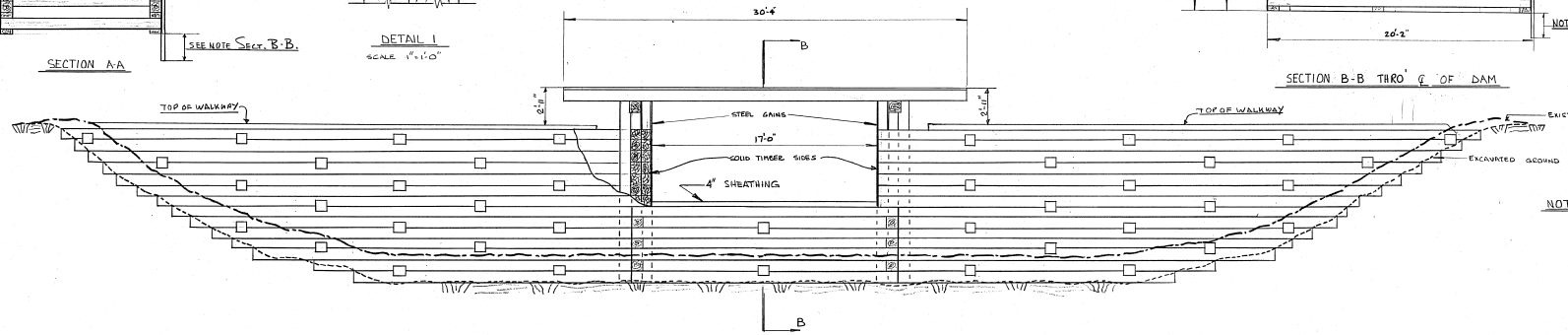


DETAIL 1
SCALE 1"=1'-0"



2" SHEATHING IS TO DRIVEN TO REFUSAL OR A TRENCH DUG ALONG THE UPSTREAM EDGE OF THE DAM TO TAKE THE BOTTOM OF THE SHEATHING. THE METHOD WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION.

SECTION B-B THRO' ℄ OF DAM



ELEVATION

NOTE: ALL TIMBERS 10"x10" UNLESS OTHERWISE NOTED

TIMBERS TO BE TREATED WITH A SUITABLE WOOD PRESERVATIVE

DEPARTMENT OF TRANSPORT

MARINE WORKS
CANALS DIVISION
TRENT CANAL SYSTEM

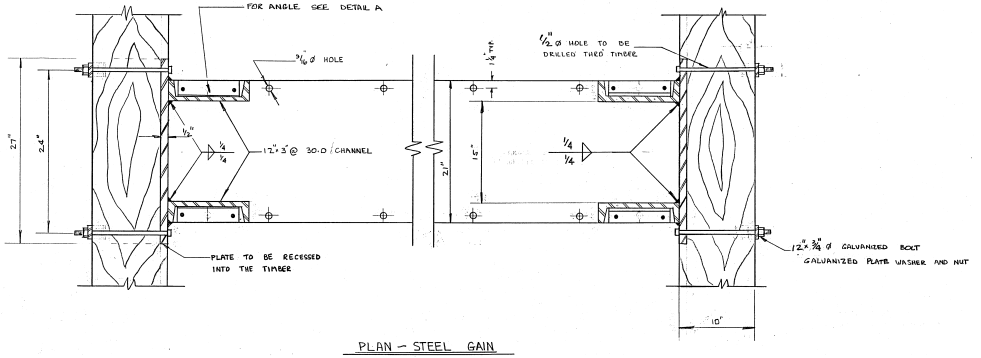
PAINT LAKE DAM

GENERAL PLAN & ELEVATION

SCALE 1/4" = 1'-0"
DATE FEB 1972
DESIGN
DRAWN D.S.P.
CHECKED C.J.S

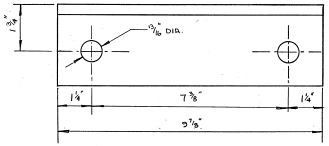
SUPERINTENDING ENGINEER

T.C.- 4.142-G



PLAN - STEEL GAIN

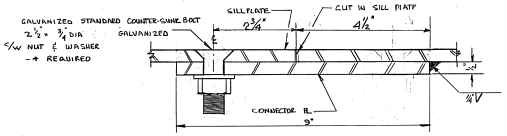
SCALE 1 1/2" = 1'-0"



DETAIL A 3" x 3" x 3/8" BRACE ANGLE

SCALE - HALF SIZE

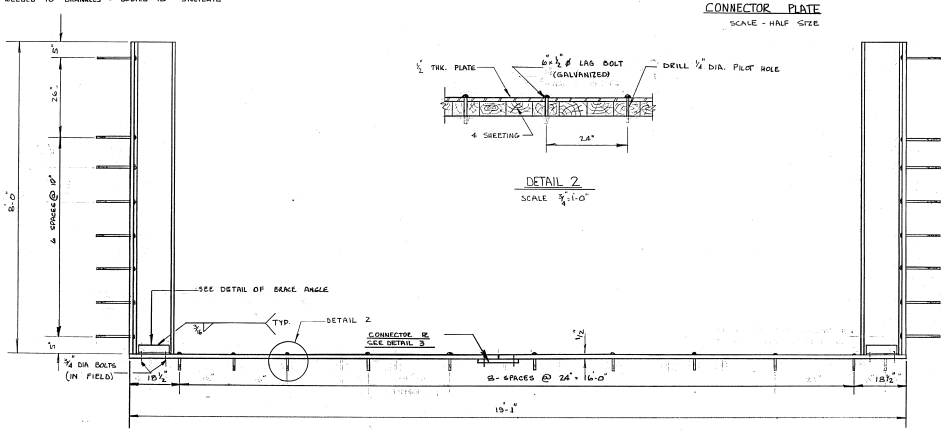
WELDED TO CHANNELS - BOLTED TO SILLPLATE



DETAIL 3

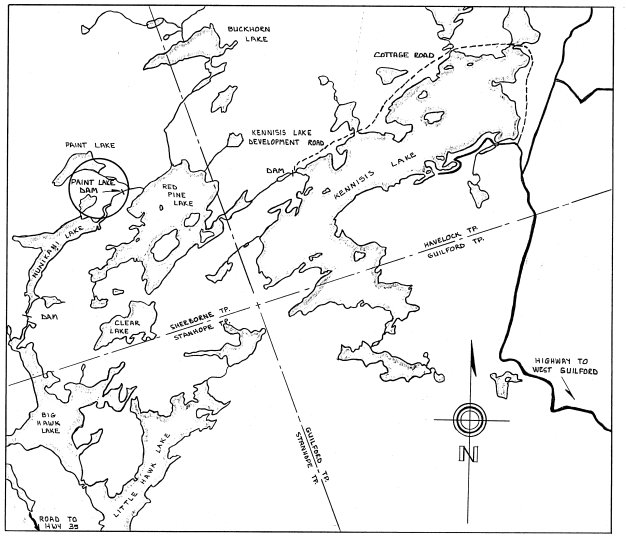
CONNECTOR PLATE

SCALE - HALF SIZE

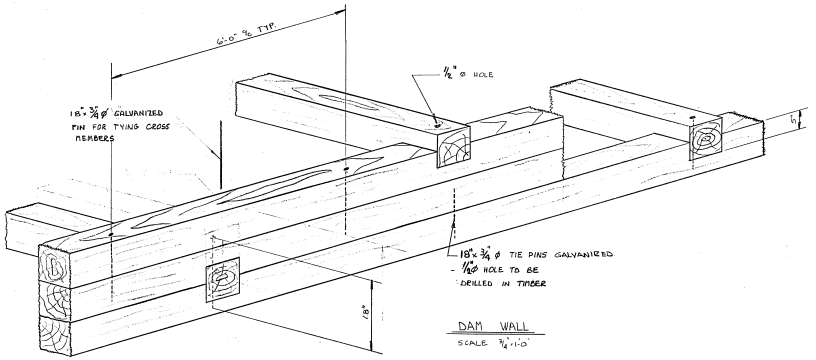


ELEVATION - STEEL GAIN

SCALE 3/4" = 1'-0"



LOCATION



DAM WALL

SCALE 3/4" = 1'-0"

DEPARTMENT OF TRANSPORT

MARINE WORKS

CANALS DIVISION

TRENT CANAL SYSTEM

PAINT LAKE DAM

SECTIONS & DETAILS

SCALE AS SHOWN

DESIGN

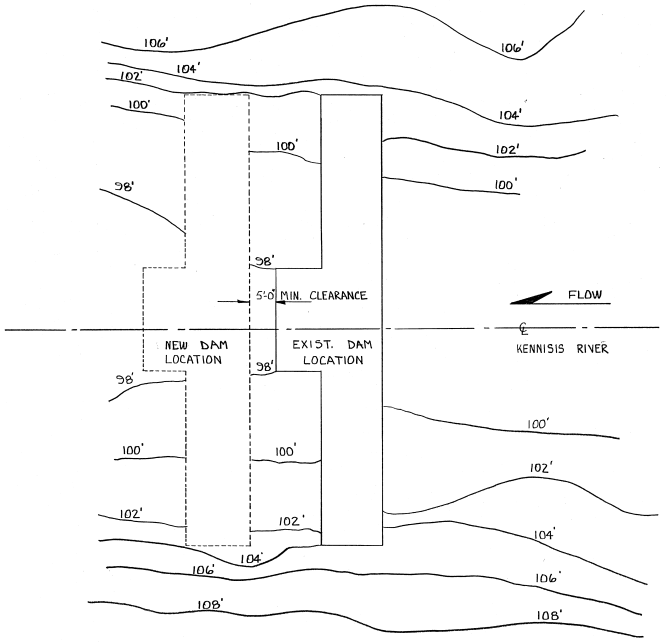
DRAWN D.S.P.

CHECKED

DATE MAR. 1972

SUPERINTENDING ENGINEER

T-C-4143-G



NOTE: ASSUME ELEV. OF SILLS = 100.00
SILL ELEV. TO REMAIN SAME ON NEW DAM

DEPARTMENT OF TRANSPORT
MARINE WORKS
CANALS DIVISION
TRENT CANAL SYSTEM

PAINT LAKE DAM

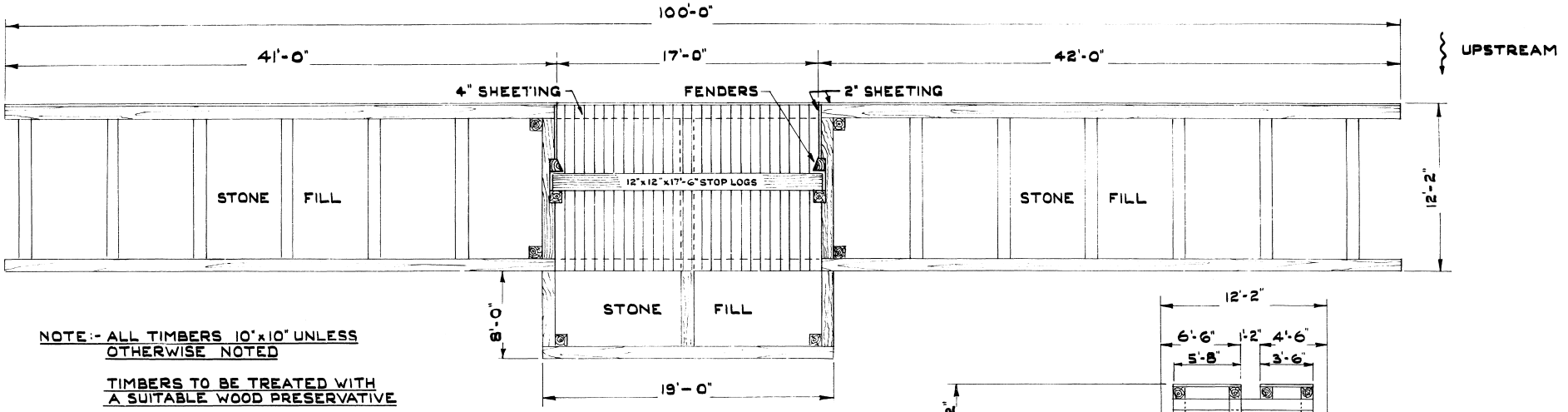
LOCATION

SCALE N.T.S.
DESIGN
DRAWN D.S.P.
CHECKED

DATE MAR. 1972

Superintending Engineer

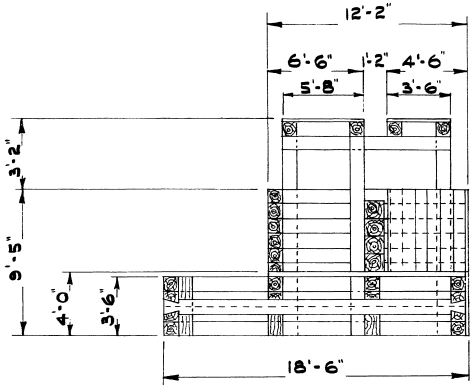
T.C. 4144-G



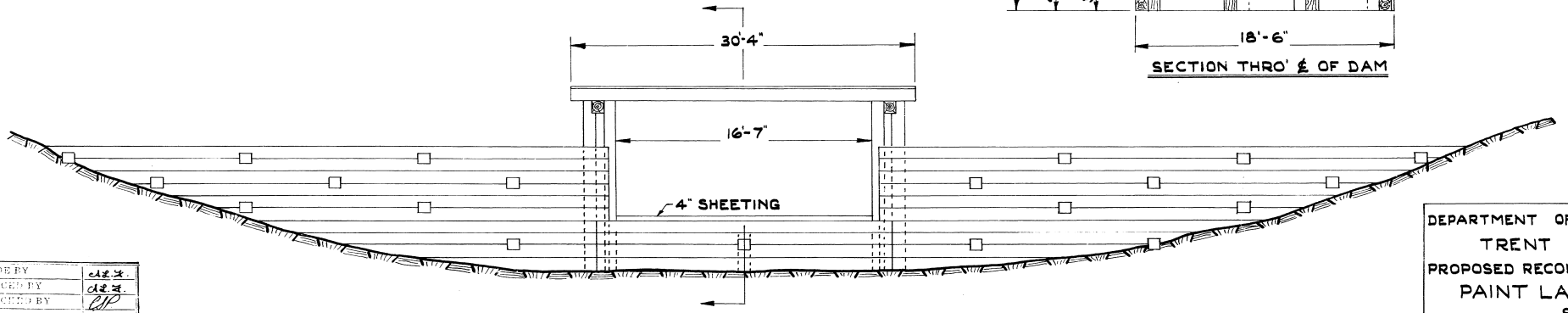
PLAN VIEW (PLATFORM NOT SHOWN)

NOTE:- ALL TIMBERS 10"x10" UNLESS OTHERWISE NOTED

TIMBERS TO BE TREATED WITH A SUITABLE WOOD PRESERVATIVE



SECTION THRO' ℄ OF DAM



ELEVATION

MADE BY	d.s.t.
TRACED BY	d.s.t.
CHECKED BY	C.J.P.
RECOMMENDED BY	
APPROVED BY	

Note:- Drawing revised as constructed. Nov 12th 1951. (not to scale)

DEPARTMENT OF TRANSPORT
TRENT CANAL
PROPOSED RECONSTRUCTION OF
PAINT LAKE DAM
SCALE:- 3/16" = 1'

Superintending Engineer
Peterborough Ont. June 13th 1951.

TC1574-C

T-11-264

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Nunikani Lake Dam aka Crab**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	South Side of Nunikani Lake		
Topographic Map	-	Coordinates (dd/mm/ss)	N 45° 11' 05"
			W 78° 44' 41"
Drainage basin	Gull River		
Name of watercourse	0	Approximative elevation	- m
Name of lake / reservoir	Nunikani Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive	Phone	(705) 750-4407
	Peterborough, Ontario, K9J 6Z6	Cellular	(705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	6.2	m	Year of construction	1967	
Height of the reservoir	-	m	Year of rehabilitation	-	
Length of structure	32	m	Drawings and/or specifications	-	
Area of the reservoir	109	ha			
Storage capacity	-	m^3	Classification (PCA)	Low	
Catchment area	-	km^2	Overall condition	-	
			Category	-	

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

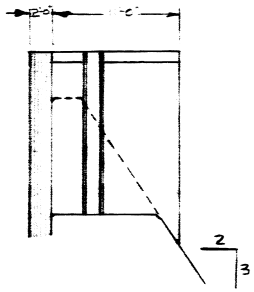
Comments -

SECTION X - REQUIRED DOCUMENTS

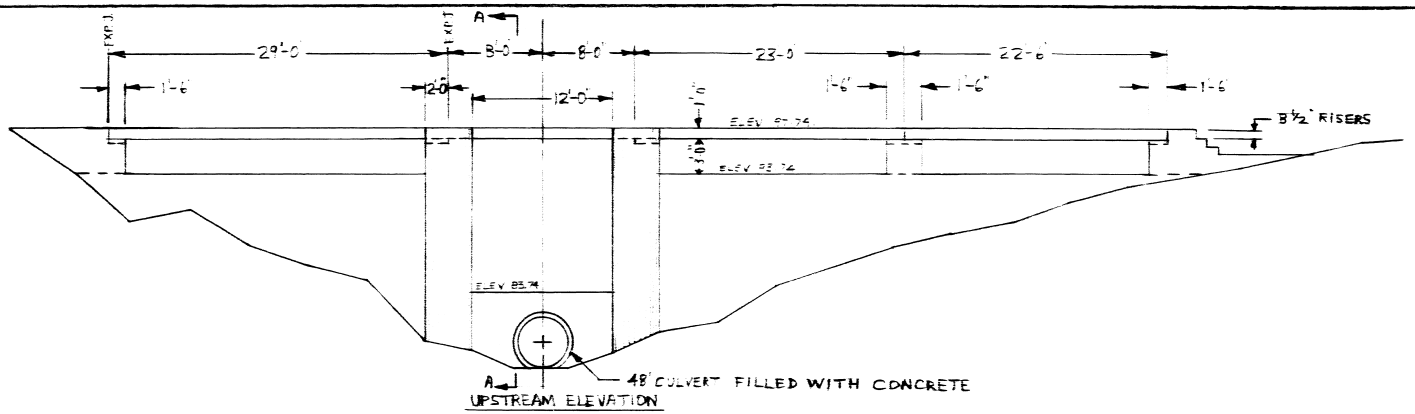
DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

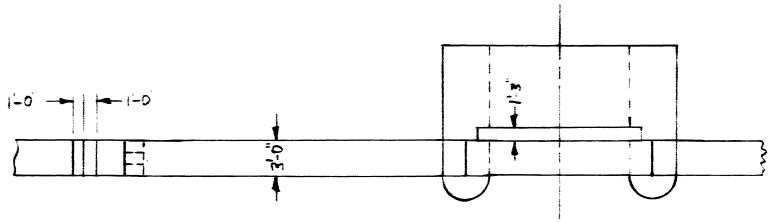
Last Engineering inspection by : - Date : - -



SECTION A-A



A
UPSTREAM ELEVATION



PLAN

NOTE:
FOR MORE DETAILS SEE DRAWING TC 3571-G
& DRAWING TC 3577-G

DEPARTMENT OF TRANSPORT

MARINE WORKS

CANALS DIVISION

TRENT CANAL SYSTEM

CRAB LAKE DAM

PLAN

AS BUILT - 1967

SCALE: 1/8" = 1'-0"
DESIGN:
DRAWN: J F P
CHECKED: J T T

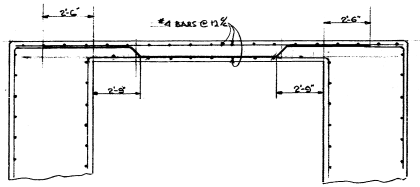
DATE: 12/12/69

SUPERINTENDING ENGINEER

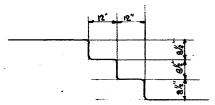
T-11-215.4

TC 3863-C

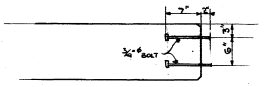
DATE:	REVISIONS:	MADE:	CH'CK'D:



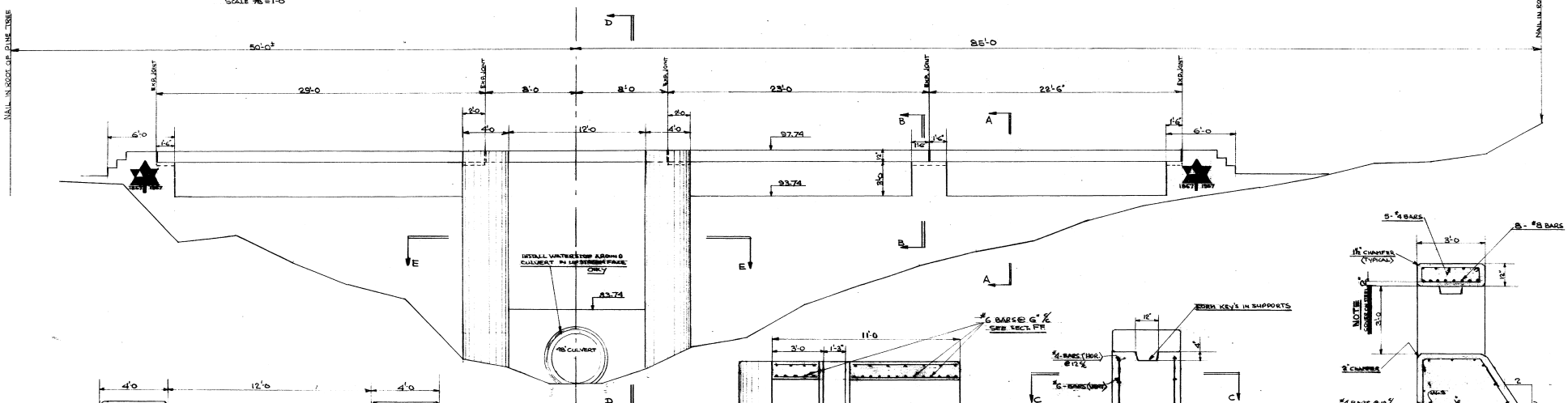
SECTION F-F
SCALE 3/8"=1'-0



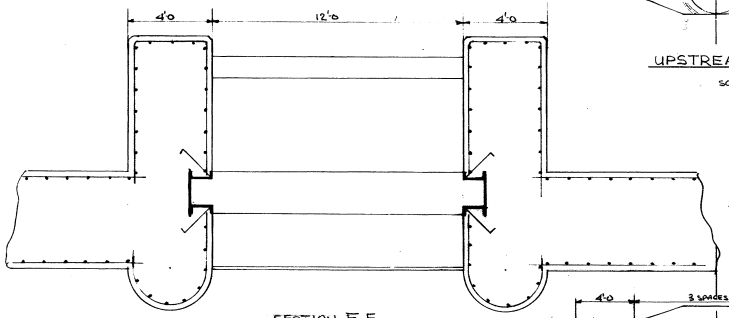
DETAIL OF STEPS
SCALE ½"=1'-0



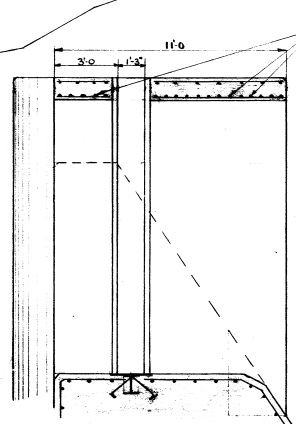
SECTION G-G
DETAIL OF HANDRAIL FASTENING
SCALE 1"=1'-0



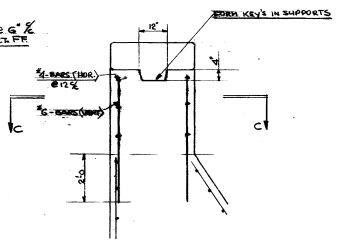
UPSTREAM ELEVATION
SCALE ⅛"=1'-0



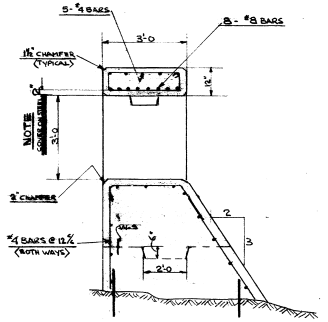
SECTION E-E
SCALE 3/8"=1'-0



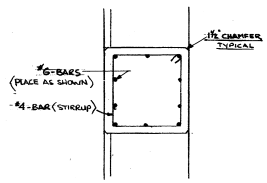
SECTION D-D
SCALE 3/8"=1'-0



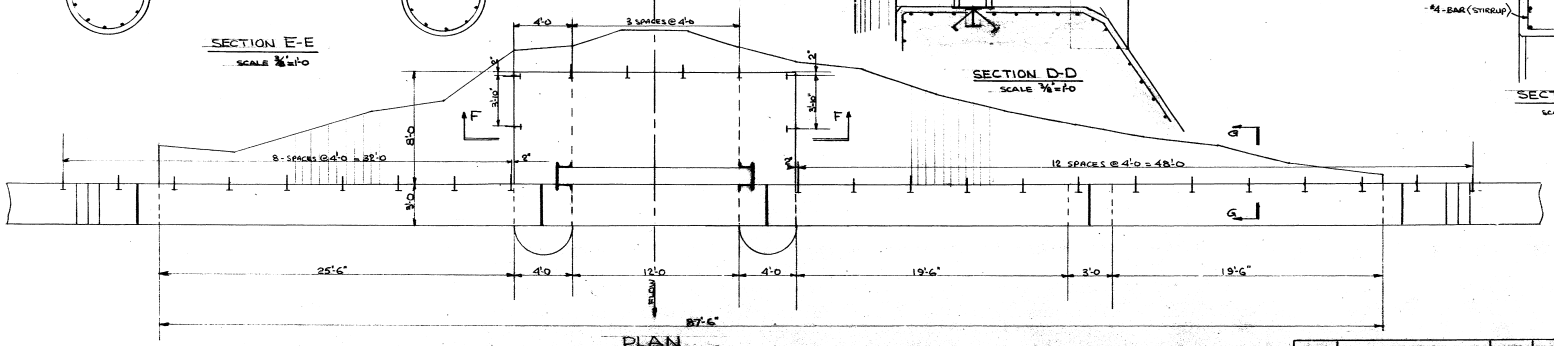
SECTION B-B
SCALE ½"=1'-0



SECTION A-A
SCALE ½"=1'-0
TYPICAL CONSTRUCTION JOINT AS SHOWN IN SECT. A-A
VERTICAL CONSTR. JOINT SAME DIMENSIONS WATERSTOP TO BE INSTALLED ON UPSTREAM SIDE OF KEY



SECTION C-C
SCALE ½"=1'-0



PLAN
SCALE 1/16"=1'-0

COVER ON RE-STEEL TO BE 3" MIN. UNLESS NOTED

DEPARTMENT OF TRANSPORT
MARINE WORKS
CANALS DIVISION
TRENT CANAL SYSTEM

CRAB LAKE DAM

PLAN, ELEVATION, SECTIONS

SCALE: AS SHOWN
DESIGN: J.T.T
DRAWN: C.J.S
CHECKED: S.A.S
DATE: AUG 30 67

T.C. 3571-G

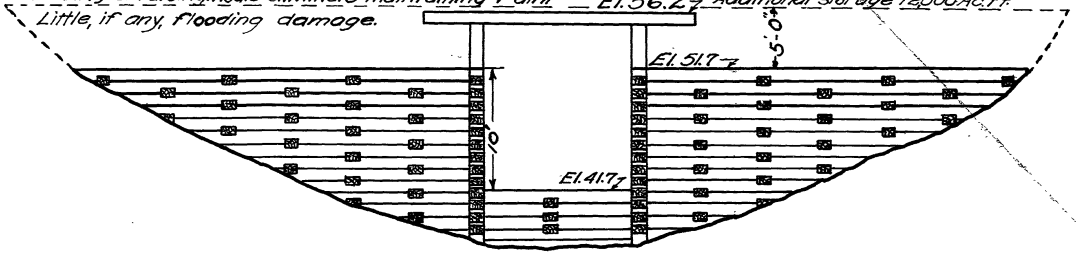
DATE	REVISIONS	MADE	CHK'D

T-11-215.6

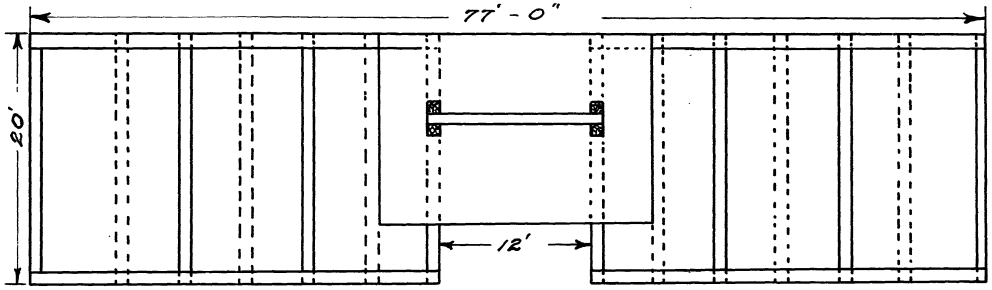
T-11-215.6

F-11-A

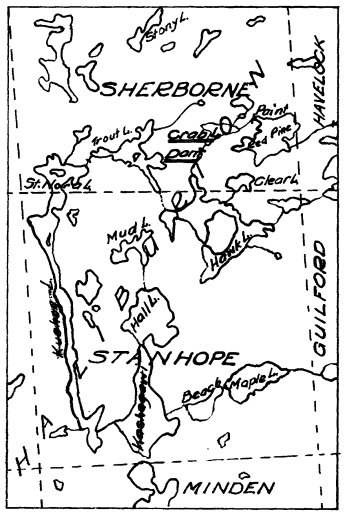
Possibility of raising. Would eliminate maintaining Point — El. 56.2 — Additional storage 12000 Ac. ft.
Little, if any, flooding damage.



ELEVATION
Scale - 1 inch = 10 feet



PLAN
Scale - 1 inch = 10 feet



LOCATION PLAN
Scale - 1 inch = 3.94 miles

TRENT CANAL

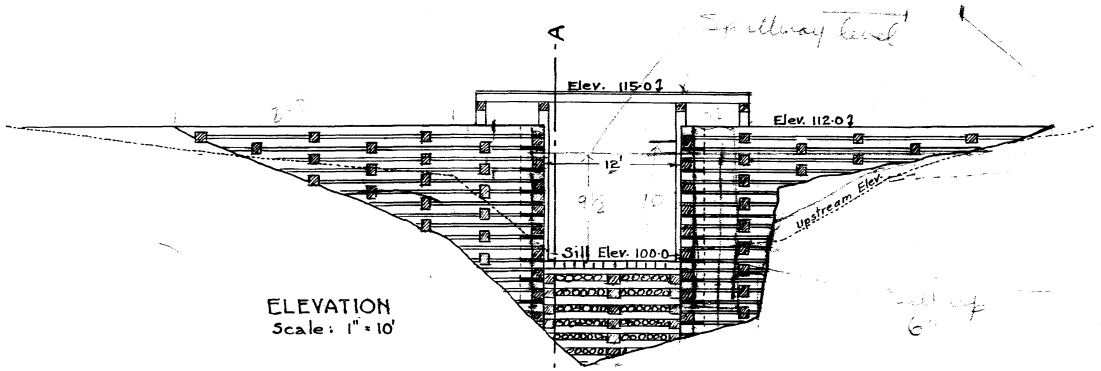
Timber Crib Dam at Crab Lake

Lot 20 Concession II Sherborne.

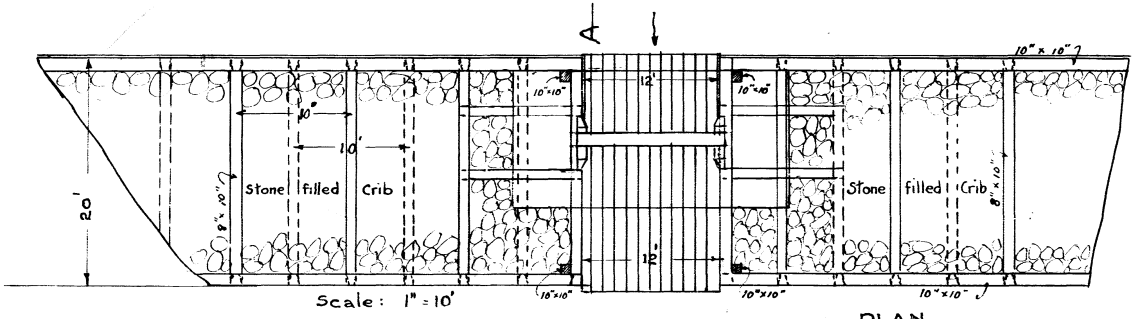
Scales - as shown Peterborough, November 24, 1928.

T-11-215.1
T.C. 957-A

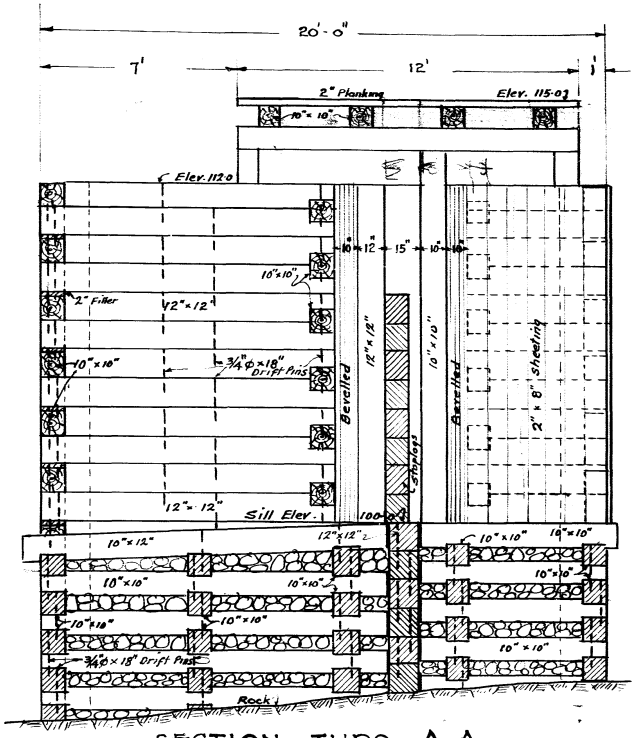
4256-C-3



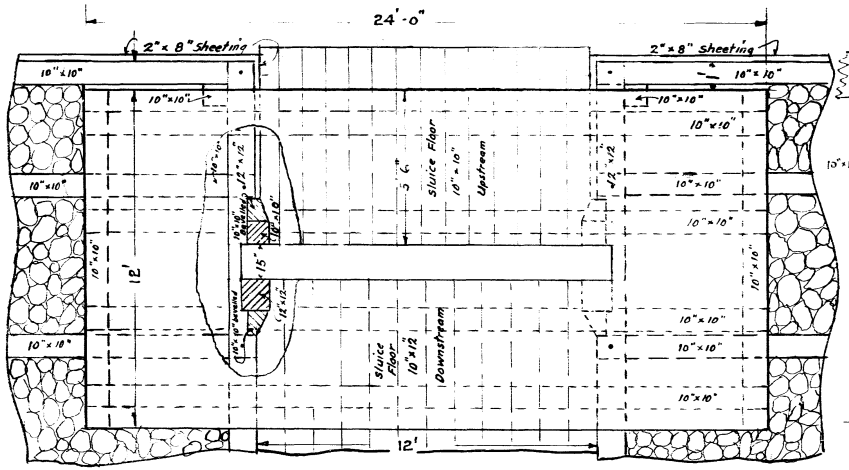
ELEVATION
Scale: 1" = 10'



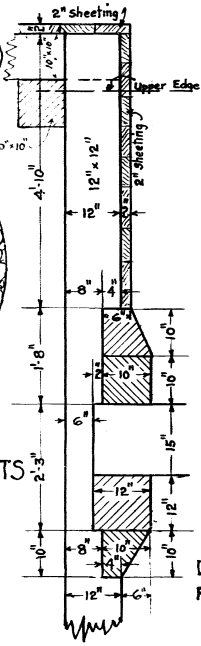
Scale: 1" = 10'



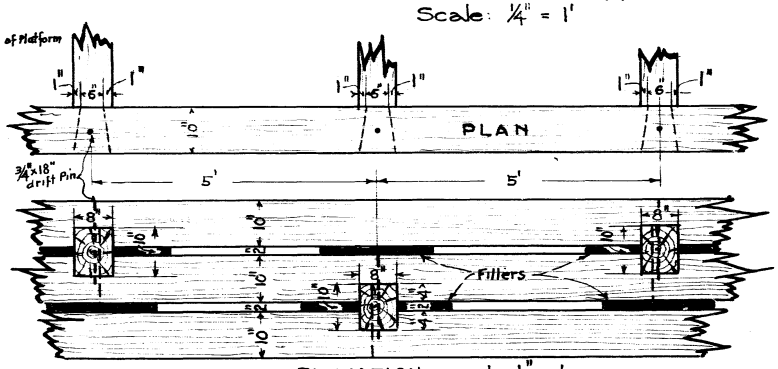
SECTION THRO. A-A
Scale: 1/4" = 1'



PART PLAN SHOWING PLATFORM AND DETAILS OF STOPLOG SLOTS
Scale: 1/4" = 1'

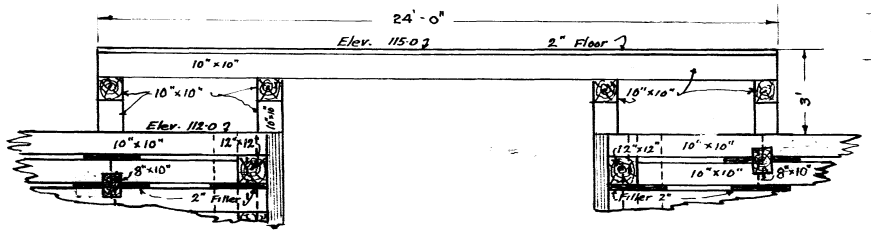


DETAIL OF FORMING FOR STOPLOG CHECK
Scale: 1/2" = 1'



ELEVATION - Scale 1/2" = 1'

DETAIL OF DOVETAIL - UPPER AND LOWER FACES OF CRIBS



PART ELEV. SHOWING PLATFORM
Scale 1/4" = 1'

Made by .. E.W.G.
Traced by .. E.W.G.
Checked by .. R.J.B.
Recommended by ..
Approved by J.T.R.

Revised Jan 7th 1948

DEPARTMENT OF TRANSPORT
TRENT CANAL
DETAILS OF REBUILDING
CRAB LAKE DAM
LOT 20, CON. II, TP OF SHERBORNE, CO. OF HALIBURTON
Scales as Indicated.

Peterborough, Ont.,
November 21st, 1947

T-11-215.3
T.C. 1109-C

Drawer 14

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Hawk Lake Dam aka Hawk**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Big Hawk Lake Road		
Topographic Map	-	Coordinates (dd/mm/ss)	N 45° 08' 33"
			W 78° 44' 35"
Drainage basin	Gull River		
Name of watercourse	-	Approximative elevation	- m
Name of lake / reservoir	Big Hawk Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive	Phone	(705) 750-4407
	Peterborough, Ontario, K9J 6Z6	Cellular	(705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	12.6	m	Year of construction	1928	
Height of the reservoir	-	m	Year of rehabilitation	-	
Length of structure	36.3	m	Drawings and/or specifications	-	
Area of the reservoir	842	ha			
Storage capacity	-	m^3	Classification (PCA)	High A	
Catchment area	-	km^2	Overall condition	-	
			Category	-	

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

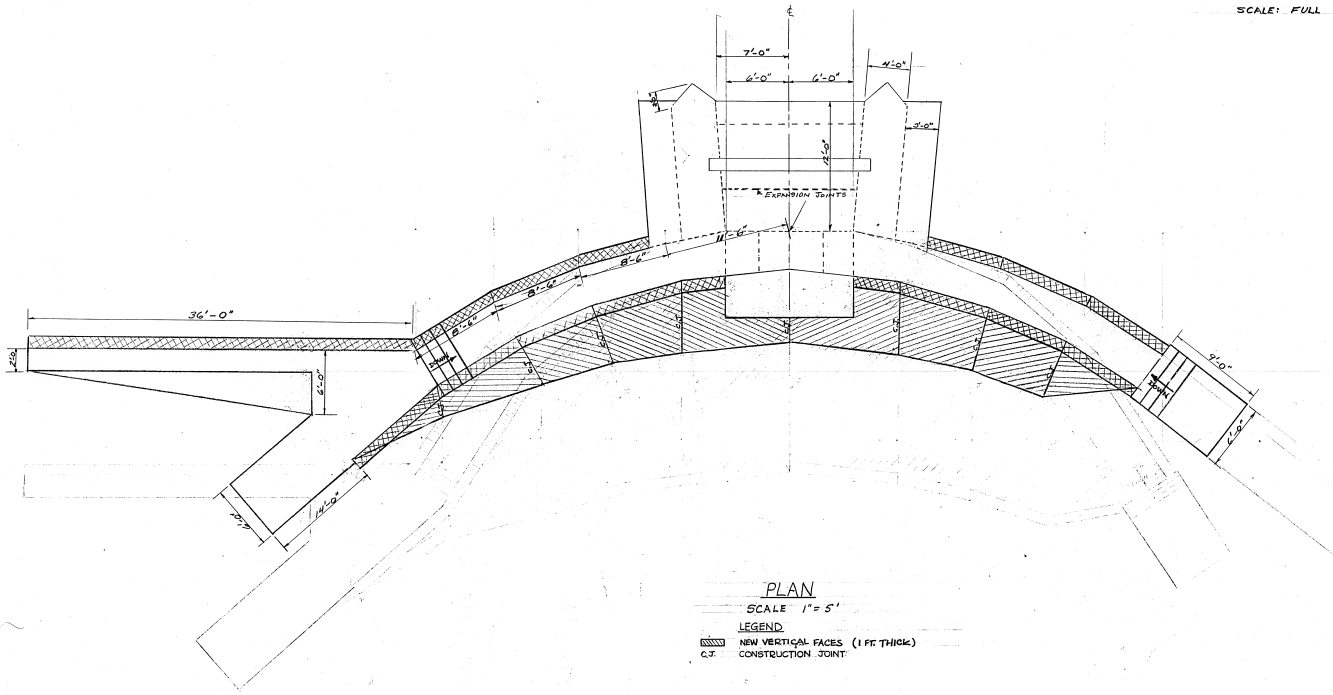
Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -



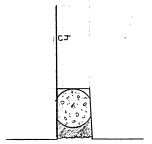
PLAN

SCALE 1" = 5'

LEGEND

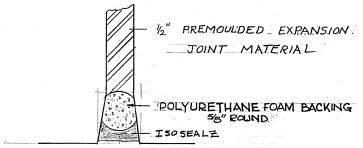
NEW VERTICAL FACES (1 FT. THICK)

C.J. CONSTRUCTION JOINT



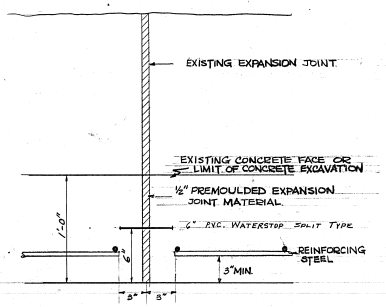
CONSTRUCTION JOINT DETAIL

SCALE: FULL



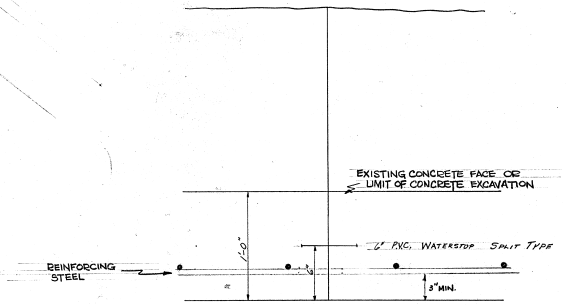
EXPANSION JOINT DETAIL

SCALE: FULL



TYPICAL EXPANSION JOINT

SCALE 1" = ½'



TYPICAL CONSTRUCTION JOINT

SCALE 1" = ½'

N.B. WATERSTOPS ONLY PUT IN ON UPSTREAM FACE OF DAM.

DEPARTMENT OF TRANSPORT

MARINE WORKS

CANALS DIVISION

TRENT CANAL SYSTEM

HAWK LAKE DAM

CONSTRUCTION DETAILS

SCALE: 1" = 5'

DESIGN: D.M.

DRAWN: JAE

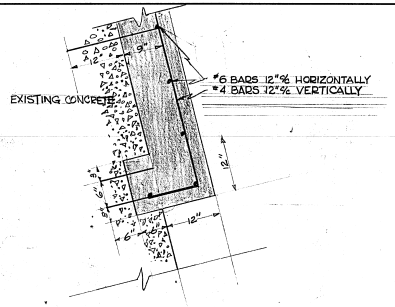
CHECKED:

DATE: JUNE '73

SUPERINTENDING ENGINEER

TC-4332-G

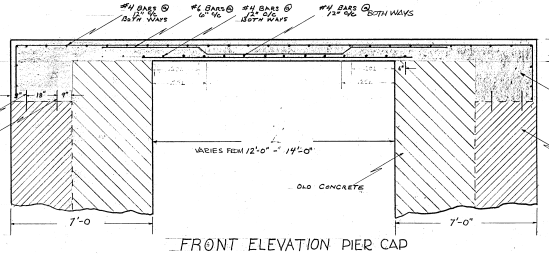
DATE:	REVISIONS:	MADE:	CH'CK'D:



DETAIL OF KEY

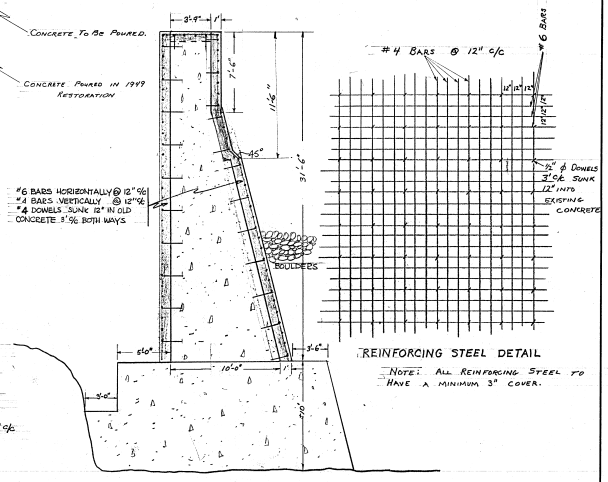
SCALE 1"=1'-0"

KEY TO BE MADE IN DOWNSTREAM VERTICAL FACE OF DAM AT LOWER LIMIT OF CONCRETE REFACING.



FRONT ELEVATION PIER CAP

SCALE: 3/8"= 1'-0"



REINFORCING STEEL DETAIL

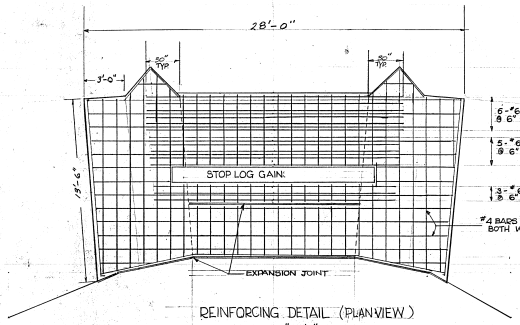
NOTE: ALL REINFORCING STEEL TO HAVE A MINIMUM 3" COVER.

SECTION A-A

REINFORCEMENT SCHEDULE

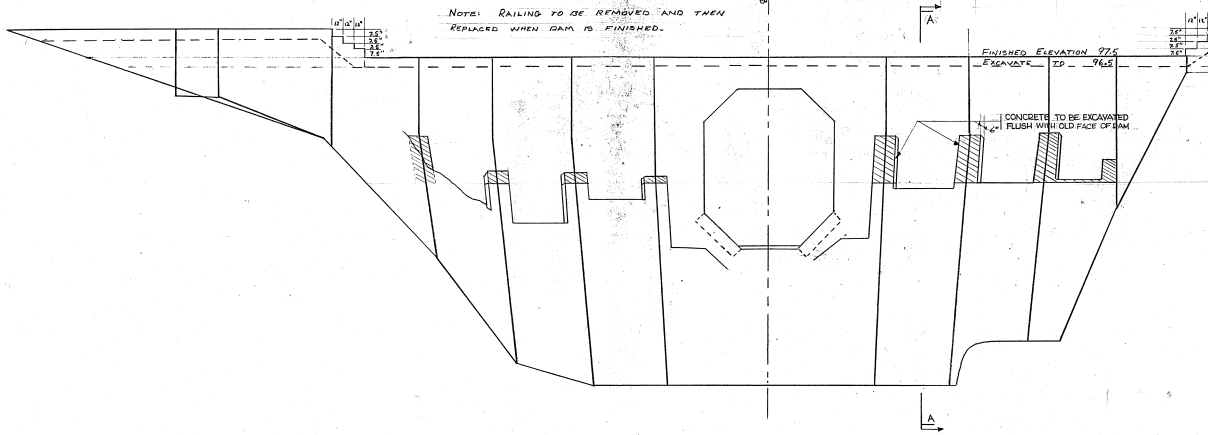
BAR SIZE	SYMBOL	NUMBER REQUIRED	DETAILS
#6	601	6	5'-3" #4 7'-6" #6 5'-3"
#6	602	5	5'-2" #6 7'-3" #6 5'-2"
#6	603	3	5'0" #6 7'-0" #6 5'-0"
#6	604	1800#	STRAIGHT
#4	401	~~2500#~~ 2200#	STRAIGHT
#4	402	300.	21" DOWELS

NOTE: REINFORCEMENT SCHEDULE FOR TOP AND DOWNSTREAM FACE OF DAM ONLY.

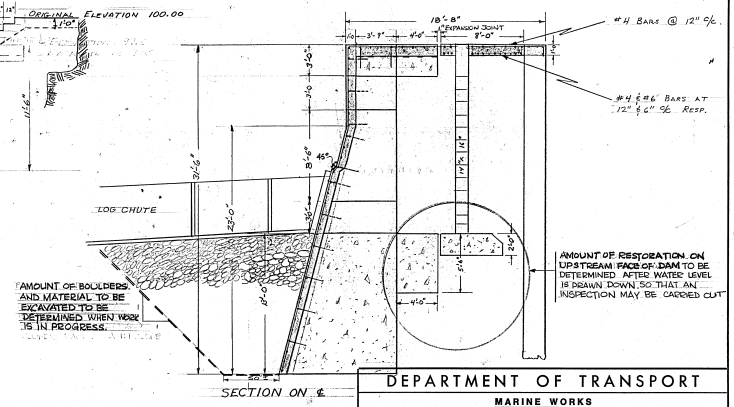


REINFORCING DETAIL (PLAN VIEW)

SCALE 1"=4'0"



ELEVATION



SECTION ON ℄

DEPARTMENT OF TRANSPORT

MARINE WORKS

CANALS DIVISION

TRENT CANAL SYSTEM

REST HAWK LAKE DAM ~~HAWK LAKE DAM~~

CONCRETE RESTORATION

SCALE: 1"= 5'

DESIGN: D.M.

DRAWN: J.A.E.

CHECKED:

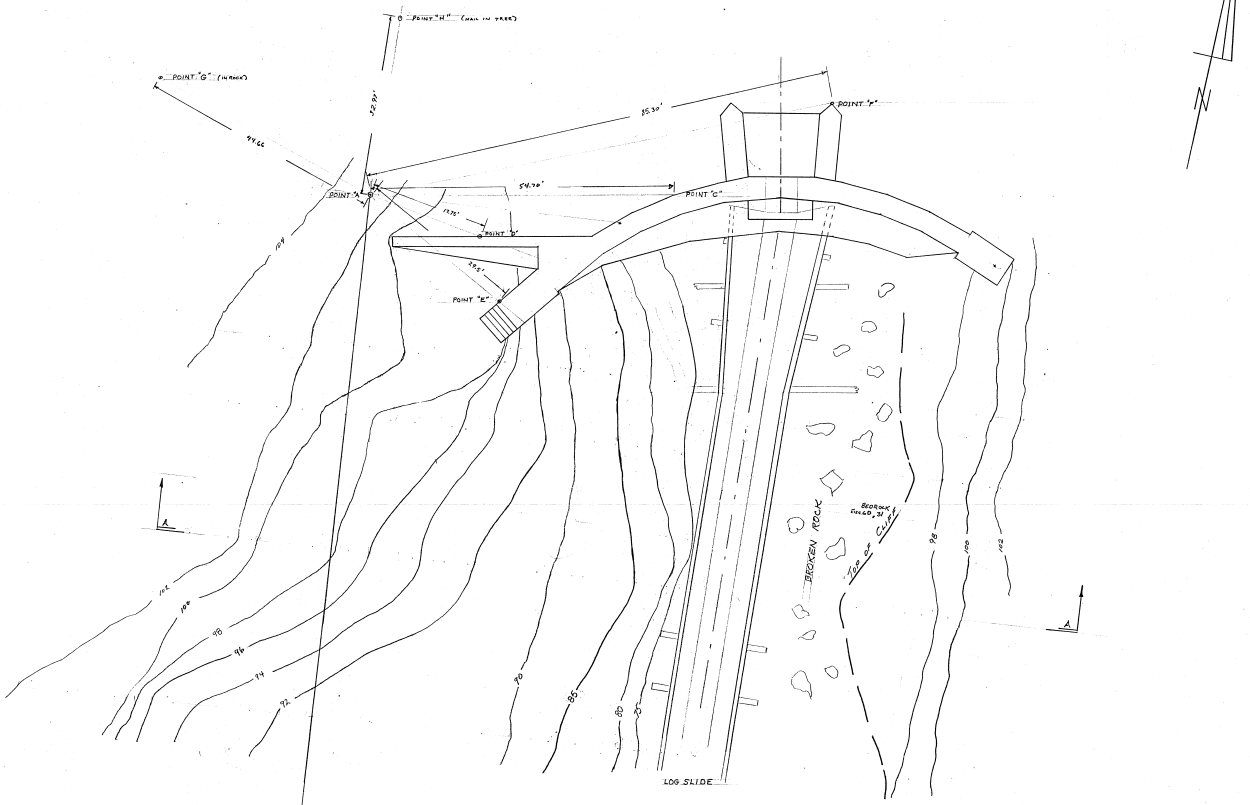
DATE: JUNE '73

SUPERINTENDING ENGINEER

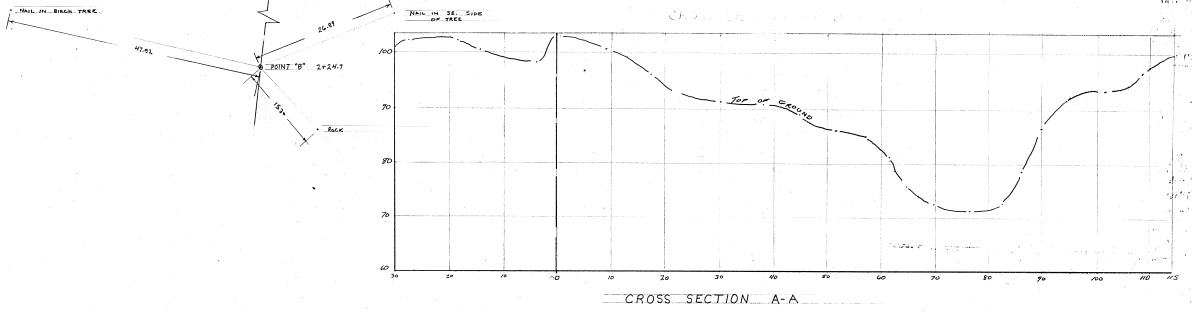
TC-4329-C

DATE:	REVISIONS:	MADE:	CH'CK'D:

DIETZGEN 150 372



NOTE: ELEVATION TOP OF DAM ASSUMED AT 100.00



CROSS SECTION A-A

DEPARTMENT OF TRANSPORT

MARINE WORKS

CANALS DIVISION

TRENT CANAL SYSTEM

HAWK LAKE DAM

PLAN OF AREA BELOW DAM

SCALE: 1"=10'

DATE: MAY 1923

DESIGN:

DRAWN: C.A.E.

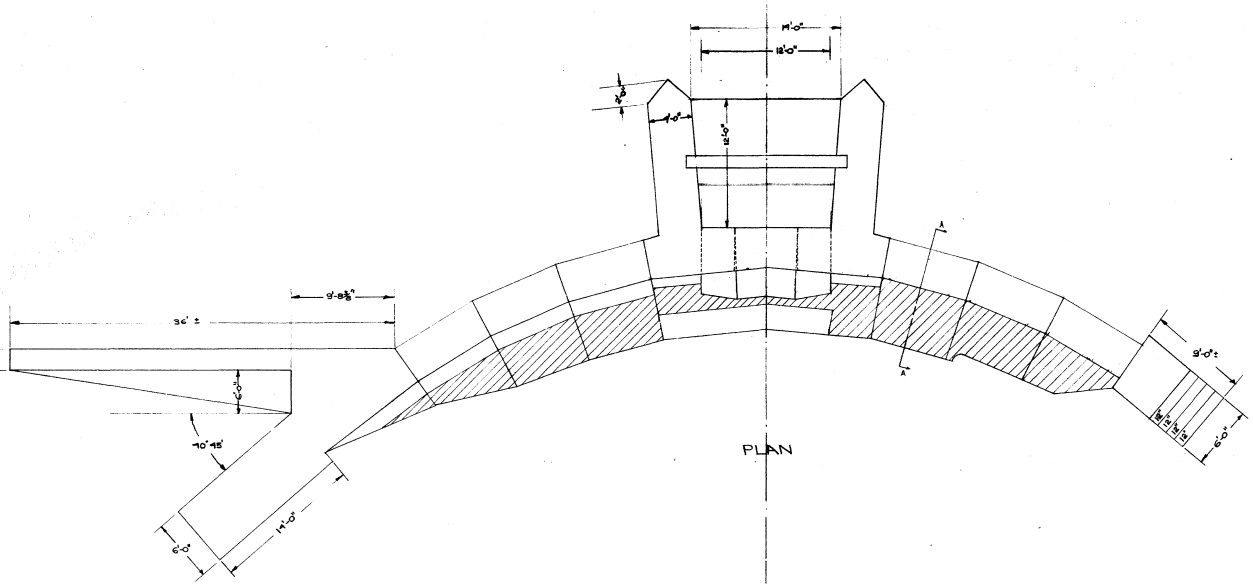
CHECKED:

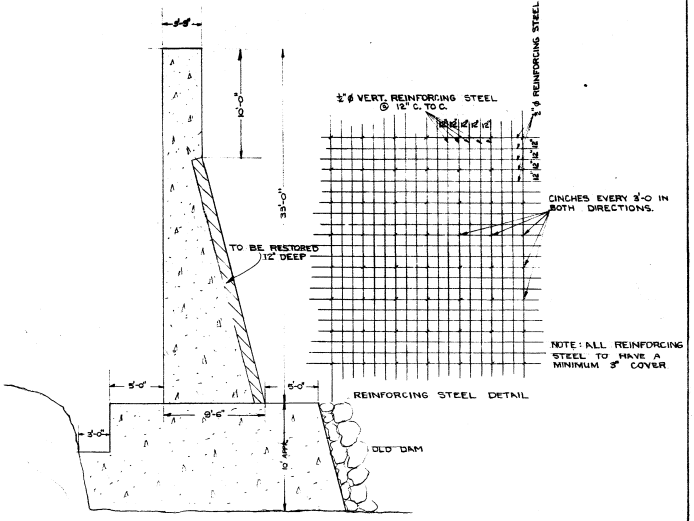
SUPERINTENDING ENGINEER

TC-4312-G

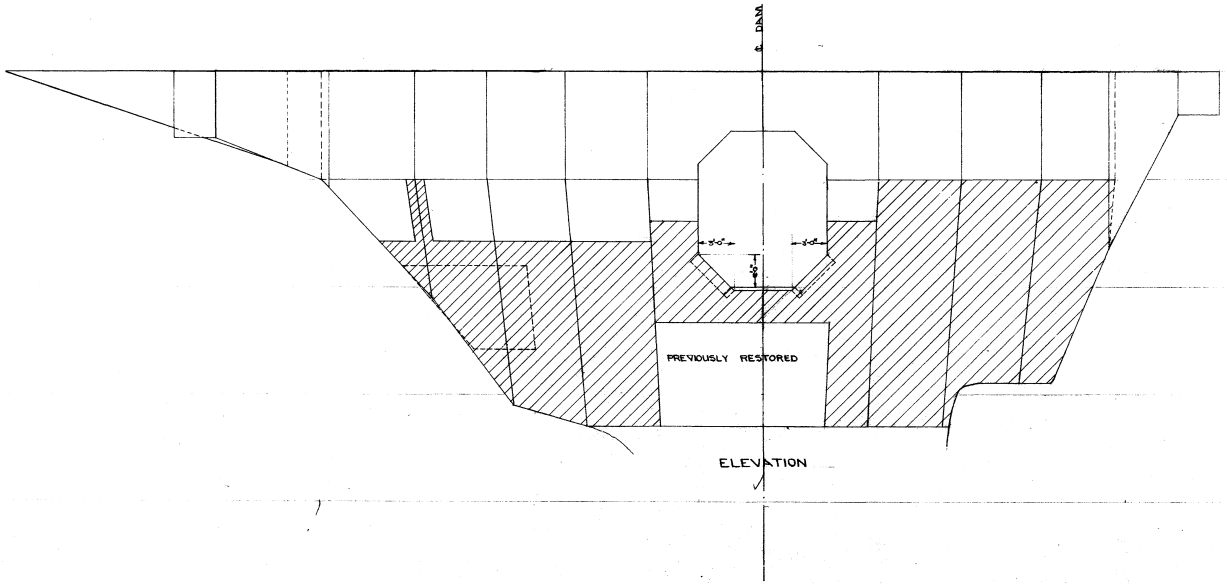
DATE:	REVISIONS:	MADE:	CH'CK'D:

DIETZGEN 350 372

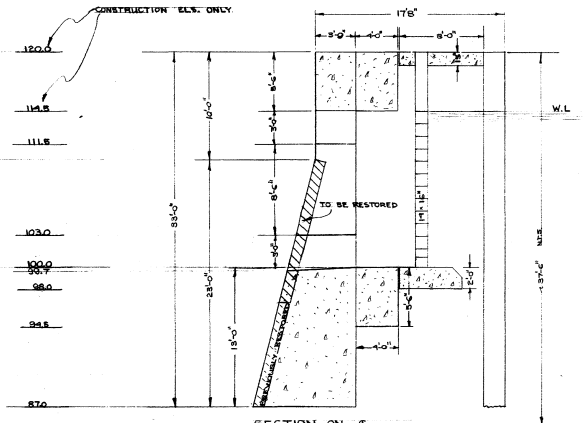




SECTION A-A



ELEVATION



SECTION ON ℄

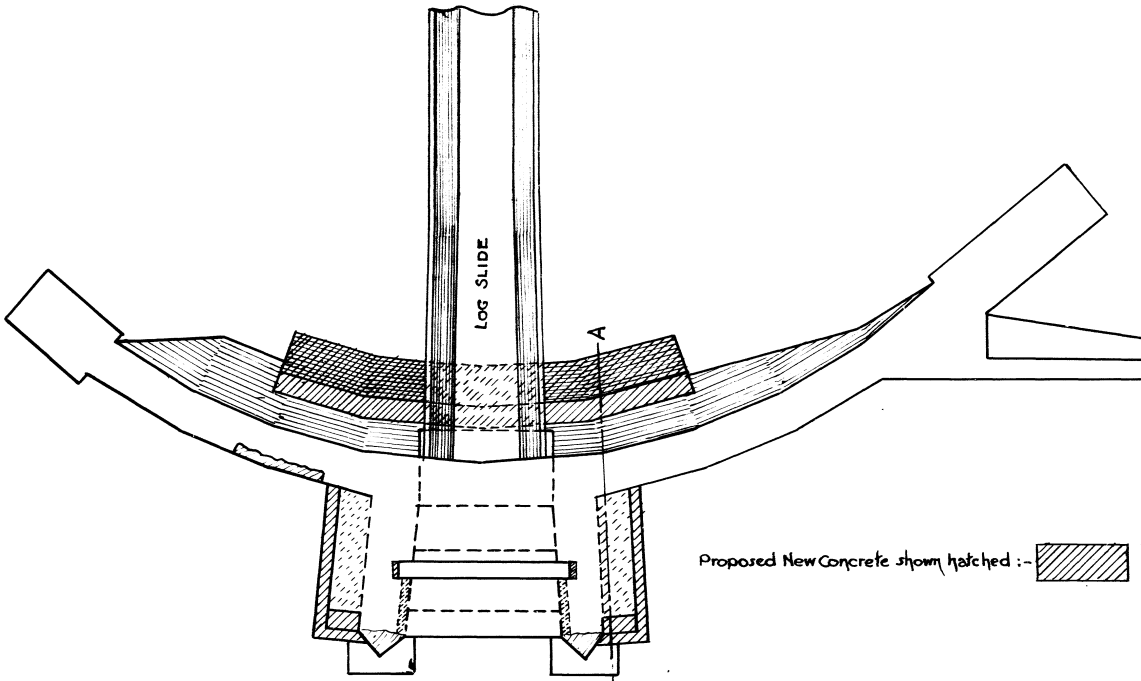
Revised Oct. 1/63.
Remove 6" Existing Concrete
Restore with 12" Concrete.
Steel to Remain Same.
L. Stc. W Psg.

DEPARTMENT OF TRANSPORT
MARINE WORKS
TRENT CANAL SYSTEM
RESTORATION OF HAWK LAKE DAM
DATE 3-9-63 MADE
SCALE 1"=5' CHK'D
APP'D

SUPERINTENDING ENGINEER

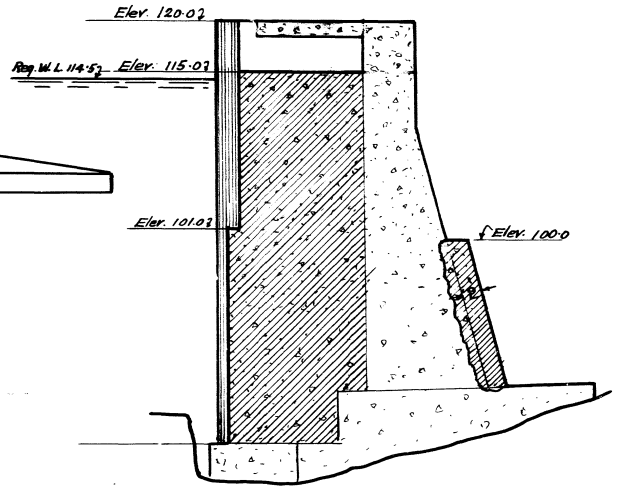
T.C. 3004-G

T-11-21-11

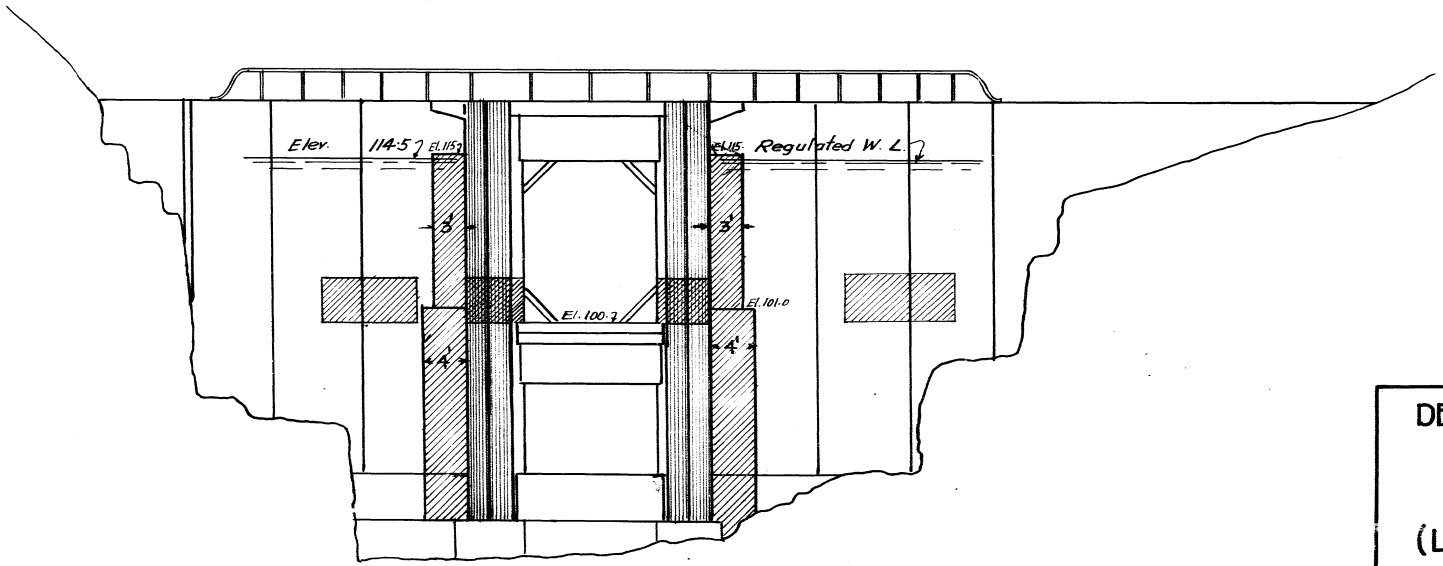


PLAN

Proposed New Concrete shown hatched :-



SECTION A - A



UPSTREAM ELEVATION

Made by -- R. J. B.
Traced by -- E. W. G.
Checked by ....
Recommended by ..
Approved by--

DEPARTMENT OF TRANSPORT
TRENT CANAL

HAWK LAKE DAM

(LOT 16, CON. XI, TP OF STANHOPE)

PLAN SHOWING

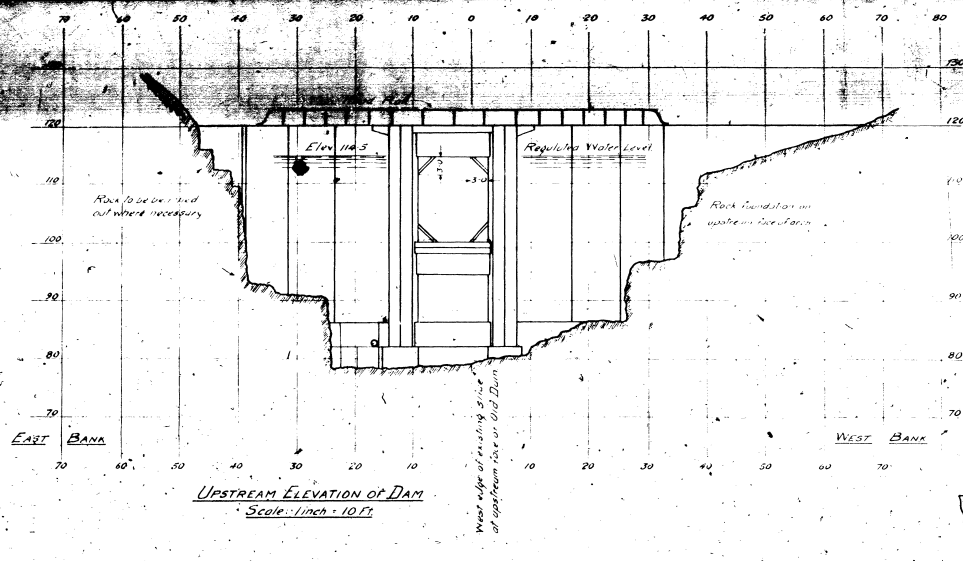
PROPOSED MASS CONCRETE REPAIRS

Scale : 1" = 10'

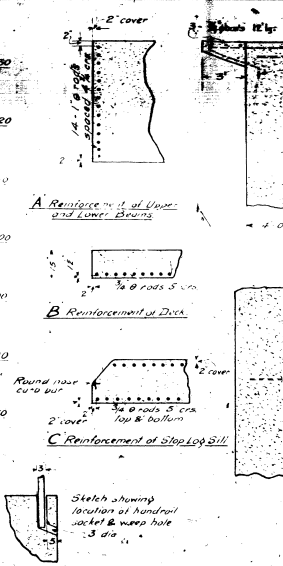
Peterborough, October 7th, 1947

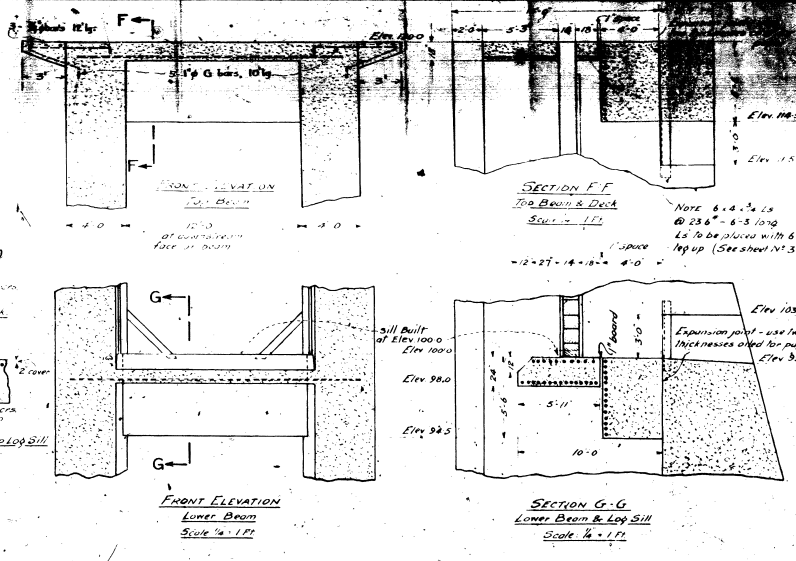
T-11-211.8

T.C. 1095-C

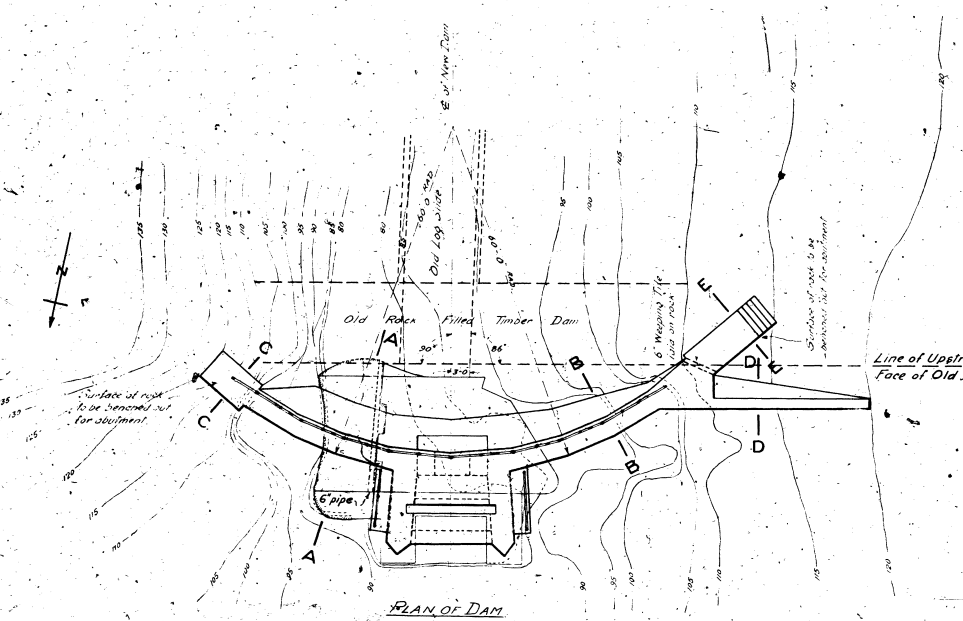


UPSTREAM ELEVATION OF DAM
Scale: 1 inch = 10 Ft

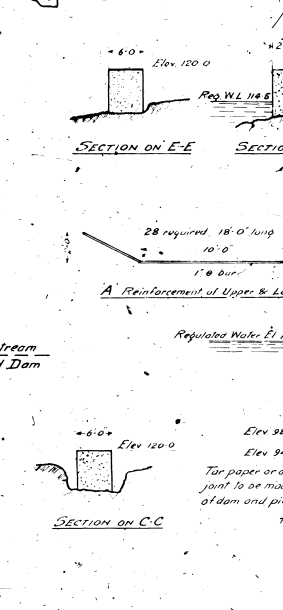


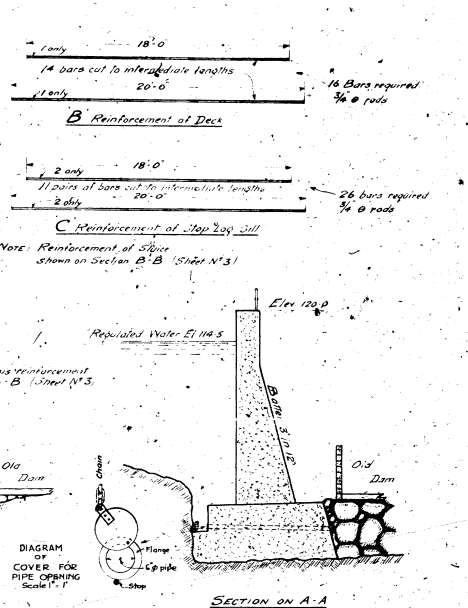


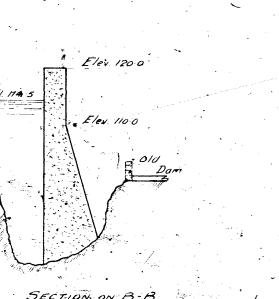
NOTE 6 - 4 - 3/4" Ls @ 23.6" = 6-5 long. Ls to be placed with 6 leg up (See sheet N° 3)

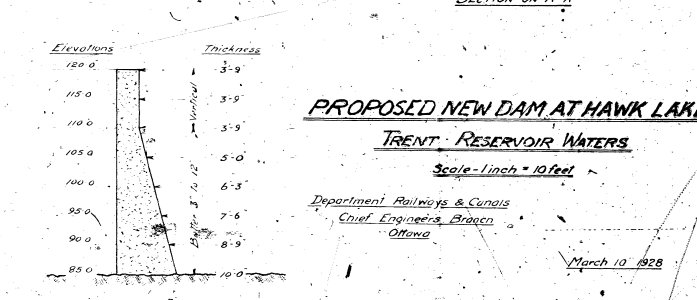


PLAN OF DAM
Scale 1 in. = 10 Ft









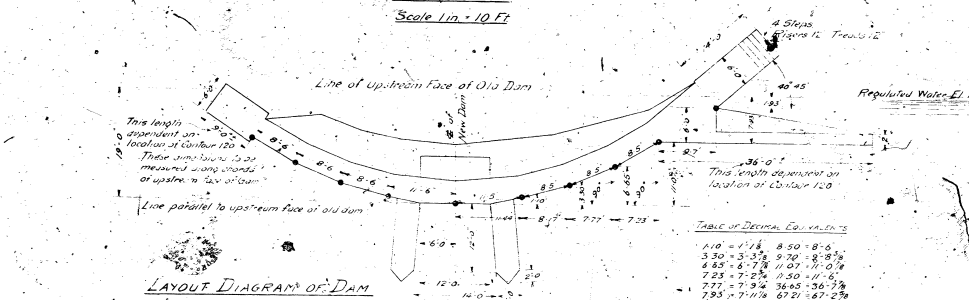


TABLE OF DECIMAL EQUIVALENTS

1/10	= 1'-1 1/8"	8.50	= 8'-6"
3.30	= 3'-3 7/8"	9.70	= 8'-8 3/8"
6.85	= 6'-7 3/8"	11.07	= 11'-0 1/8"
7.25	= 7'-2 3/4"	11.50	= 11'-6"
7.77	= 7'-9 1/4"	36.65	= 36'-7 7/8"
7.93	= 7'-11 1/8"	67.21	= 67'-2 5/8"
		8.17	= 8'-2 1/8"

PROPOSED NEW DAM AT HAWK LAKE

TRENT RESERVOIR WATERS

Scale - 1 inch = 10 feet

Department Railways & Canals
Chief Engineers Branch
Ottawa

March 10 1928

Sheet N° 2.

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Little Brother Lake Dam aka Mud**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Little Hawk Lake Road		
Topographic Map	-	Coordinates (dd/mm/ss)	N -
			W -
Drainage basin	Gull River		
Name of watercourse	-	Approximative elevation	- m
Name of lake / reservoir	Little Brother Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	2.3	m	Year of construction	1928	
Height of the reservoir	-	m	Year of rehabilitation	-	
Length of structure	63.7	m	Drawings and/or specifications	-	
Area of the reservoir	842	ha			
Storage capacity	-	m^3	Classification (PCA)	Very Low	
Catchment area	-	km^2	Overall condition	-	
			Category	-	

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

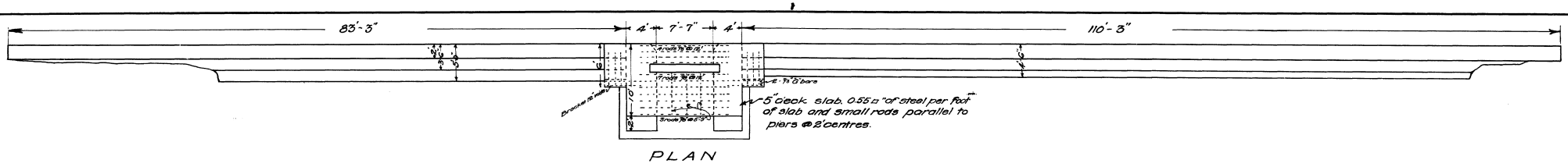
Comments -

SECTION X - REQUIRED DOCUMENTS

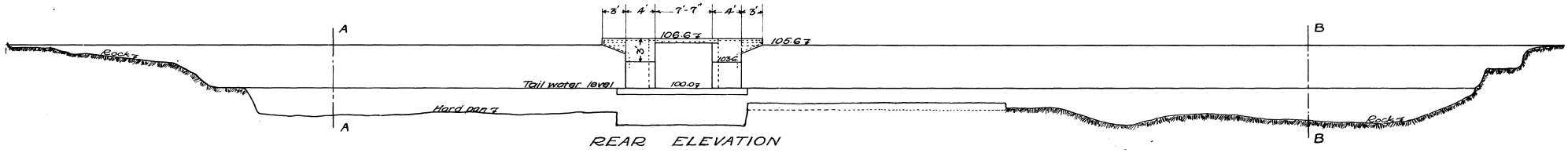
DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

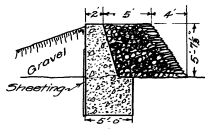
Last Engineering inspection by : - Date : - -



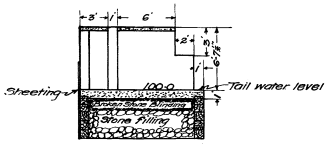
PLAN



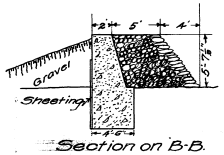
REAR ELEVATION



Section on A-A.



Section showing Pier



Section on B-B.

T-11-239

TRENT CANAL

Plan showing

MUD LAKE DAM

as built T.C. 1934-A

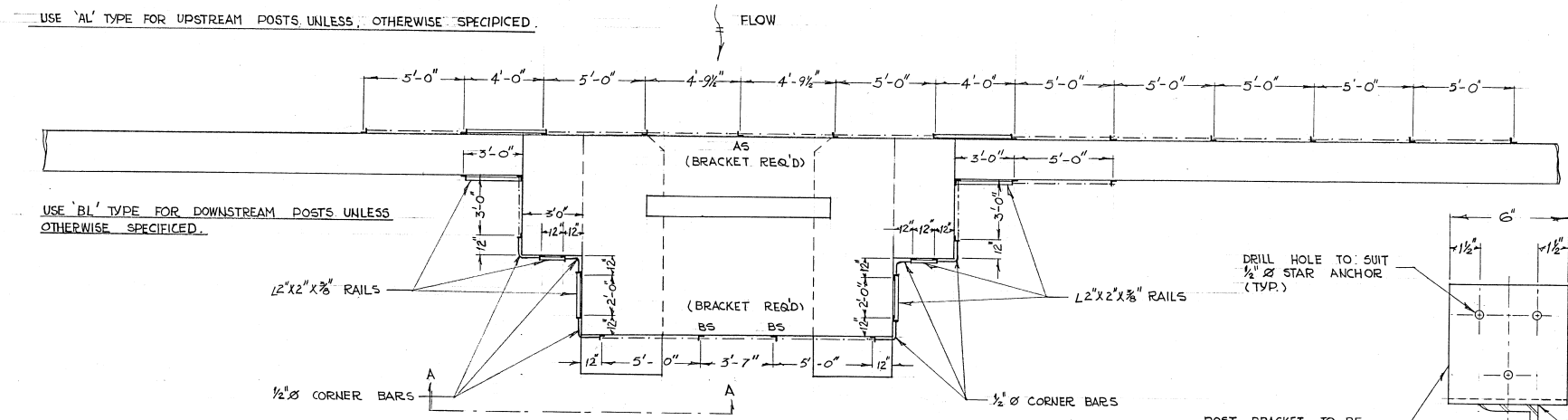
Lot 12, Concession X, Township of Stanhope

Scale-1in.=8ft.

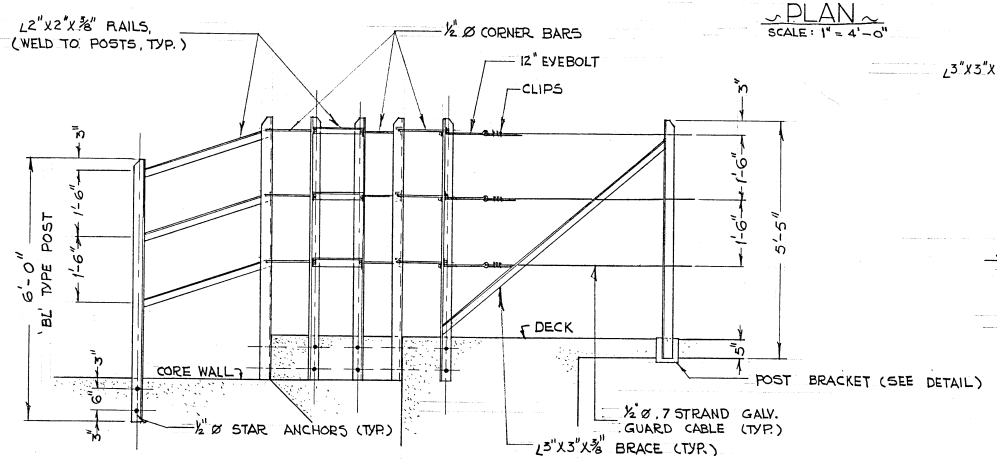
Peterborough, January 16, 1931.

USE 'AL' TYPE FOR UPSTREAM POSTS UNLESS OTHERWISE SPECIFICED.

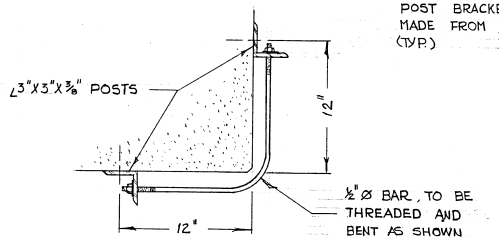
USE 'BL' TYPE FOR DOWNSTREAM POSTS UNLESS OTHERWISE SPECIFICED.



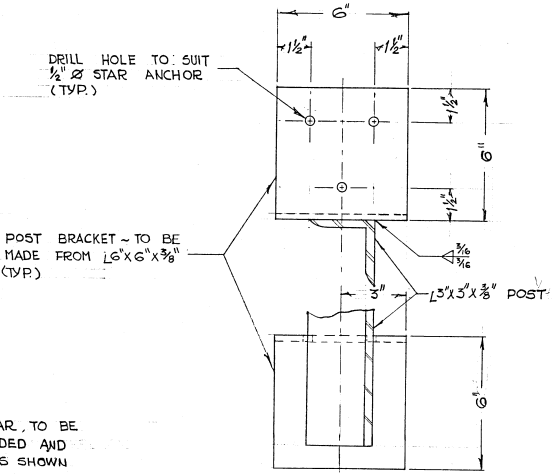
~ PLAN ~
SCALE: 1" = 4'-0"



~ VIEW A - A ~
SCALE: ½" = 1'-0"



~ CORNER BAR DETAIL ~
SCALE: ⅛" = 1"



~ POST BRACKET DETAIL ~
SCALE: ¼" = 1"

NOTE:
1. TYPES OF POST, SEE DWG T.S.W. 4605 C
2. BRACE REQ'D FOR END AND CORNER POSTS
3. PAINT: ONE SHOP - PRIMER

Indian and Northern Affairs / Indiennes et du Nord — Parks Canada / Parcs Canada

TRENT-SEVERN WATERWAY

TITLE: INSTALLATION GUARD RAIL MUD LAKE DAM

DRAWN BY: SWC
DESIGNED BY:
CHECKED BY:
RESPONSIBLE OFFICER:

SCALE: AS SHOWN
DATE: Apr./76.

TSW 4616 C

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Halls Lake Dam (@ Buttermilk Falls)**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Highway 35		
Topographic Map	-	Coordinates (dd/mm/ss)	N 45° 05' 43"
			W 78° 44' 46"
Drainage basin	Gull River		
Name of watercourse	-	Approximative elevation	- m
Name of lake / reservoir	Halls Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive	Phone	(705) 750-4407
	Peterborough, Ontario, K9J 6Z6	Cellular	(705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	7	m	Year of construction	1915	
Height of the reservoir	-	m	Year of rehabilitation	-	
Length of structure	19.7	m	Drawings and/or specifications	-	
Area of the reservoir	529	ha			
Storage capacity	-	m^3	Classification (PCA)	High	
Catchment area	-	km^2	Overall condition	-	
			Category	-	
Main use(s)	-				
Replacement cost	-		*according to AMS Data dating from :*	-	
Deffered Maintenance	-				

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

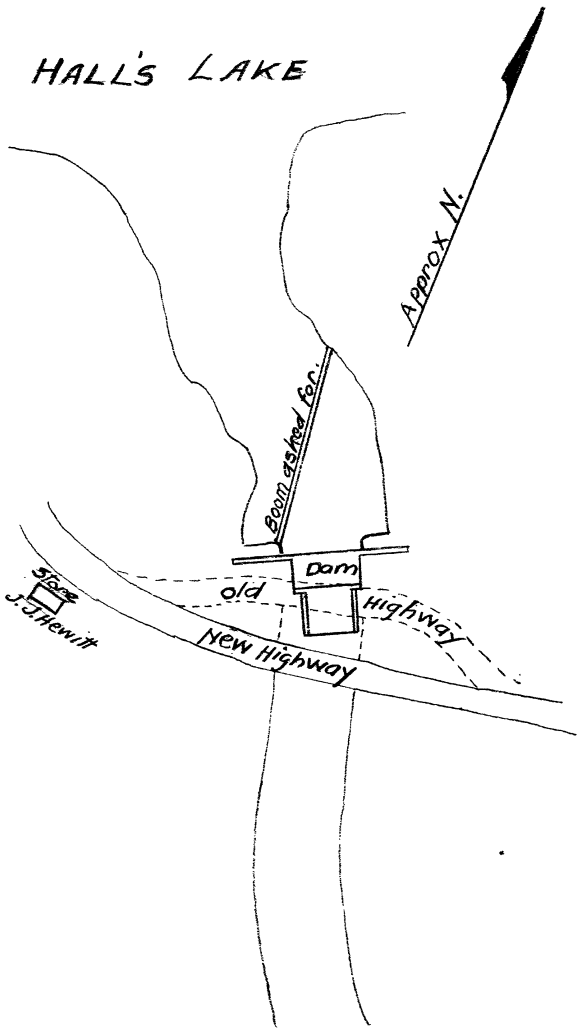
Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -

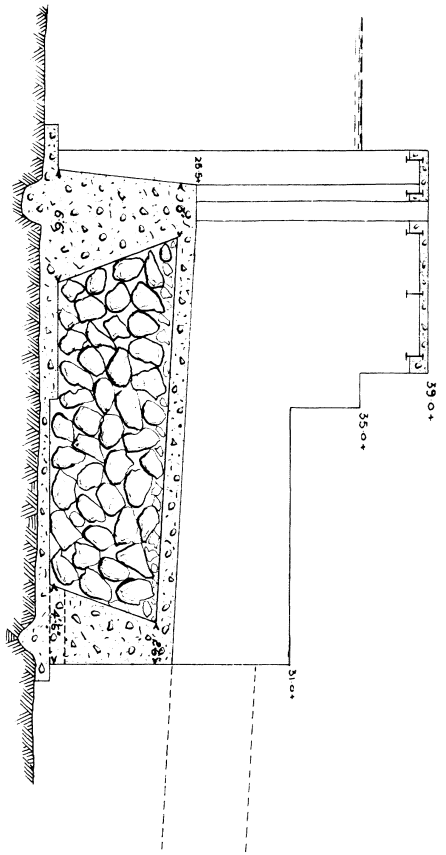


Dept. File No

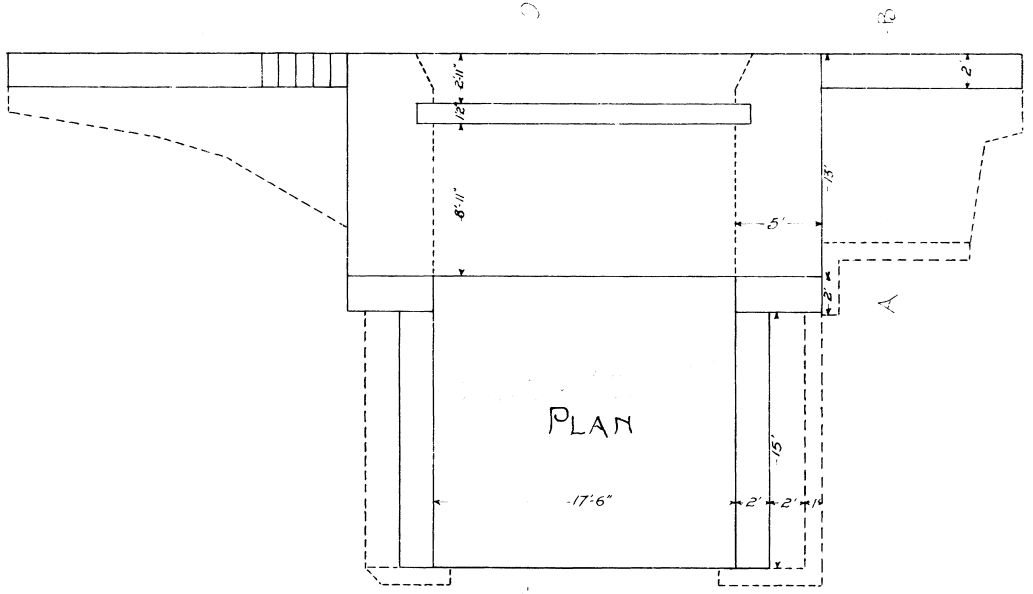
DEPARTMENT OF TRANSPORT
TRENT CANAL
HALL'S LAKE DAM
SKETCH PLAN SHOWING HIGHWAY
CROSSING BELOW DAM.
scale: 1 in = 50 ft

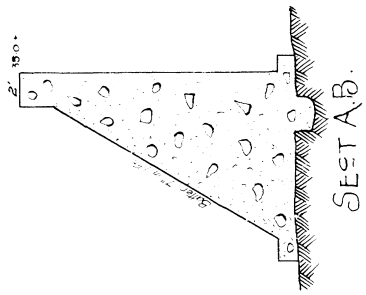
Superintending Engineer
Peterborough Ont.

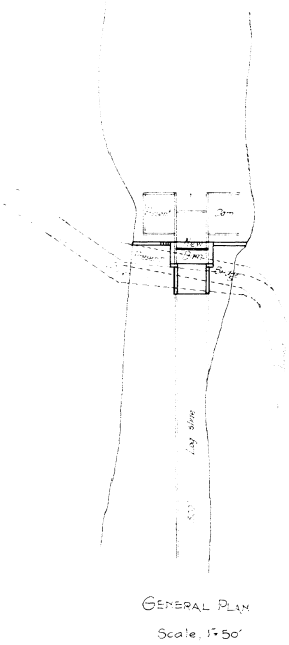
T-18-114
Aug. 8th 1939
T.C. 601-A

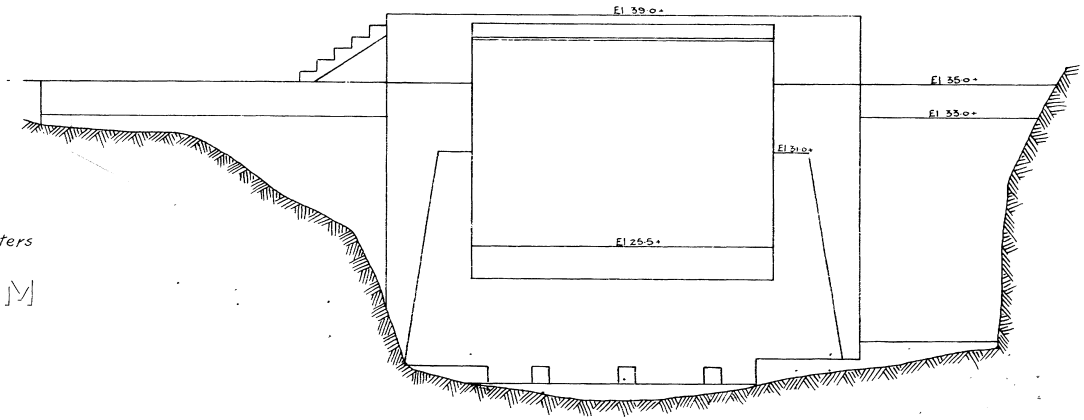


SECT C.D. AND ELEV.N OF PIER AND SLIDE WALL









REAR ELEVATION

Trent Canal - Reservoir Waters

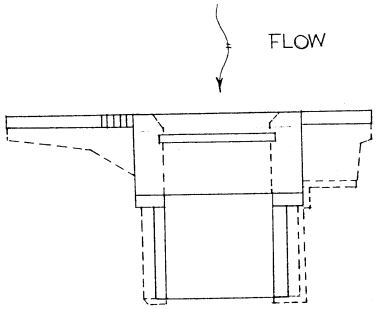
HALL'S LAKE DAM

Scale, 1"=5'

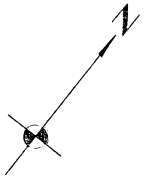
D-5-4064

T-11-311.1

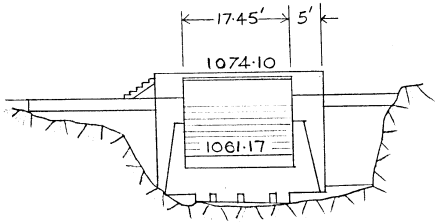
1 20 18 16 14 12 10 8 6 4 2 0



PLAN



B.M. 323 S @ DOWNSTREAM FACE, S.W. SIDE OF DAM ELEVATION 1070.60'.



DOWNSTREAM ELEVATION

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT,
PARKS CANADA,
TRENT CANAL SYSTEM

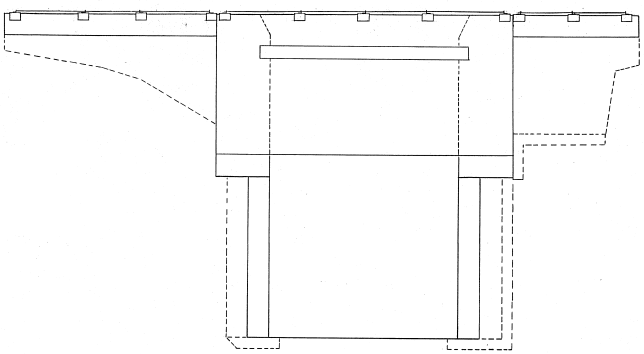
HALL'S LAKE DAM

DATE: Oct. /74.
SCALE: 1" = 20'-0

MADE:
TRC'D: D.C.
CHK'D:
APR'D:

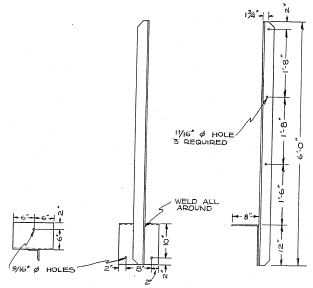
SUPERINTENDENT

TC-4481-B



PLAN

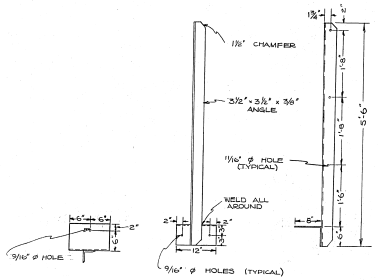
SCALE : 1" = 5'-0"



POST DETAIL - TYPE 'A'

SCALE : ¾" = 1'-0"

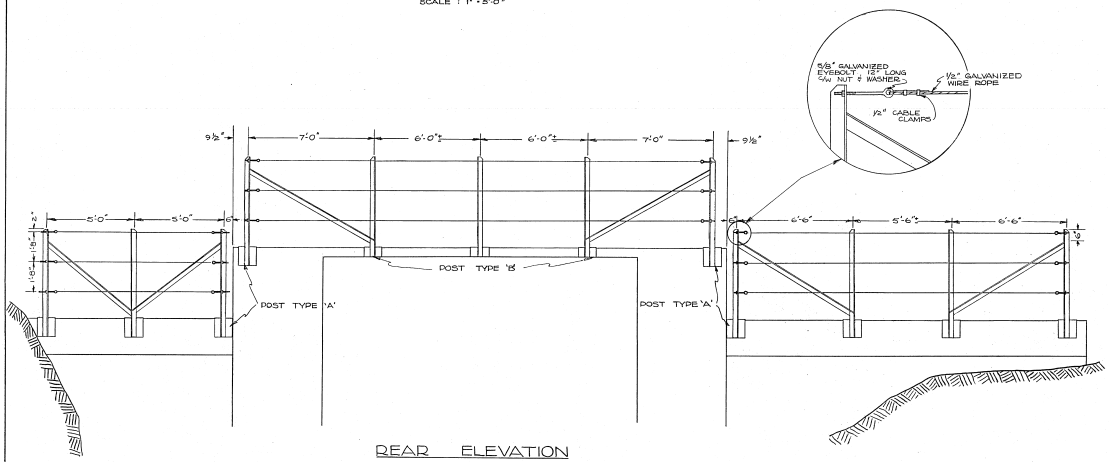
NOTES :
- FOUR POSTS REQUIRED AS SHOWN, FIVE OPPOSITE HAND REQUIRED
- ALL POSTS & BRACES ARE 3½" x 3½" x ⅜" ANGLE
- 1⅛" CHAMFER AT ALL CORNERS ON POSTS
- BASE PLATES ARE ½" PLATE
- POSTS TO BE MOUNTED WITH ⅞"
- STAR ANCHORS 6" LONG



POST DETAIL - TYPE 'B'

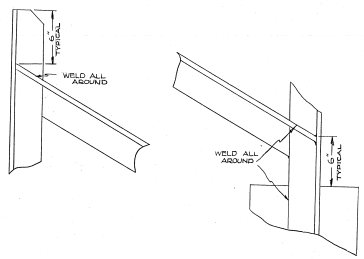
SCALE : ¾" = 1'-0"

NOTES :
- 1⅛" CHAMFER AT ALL CORNERS ON POSTS
- TWO POSTS REQUIRED AS SHOWN, ONE OPPOSITE HAND REQUIRED
- ALL POSTS & BRACES ARE 3½" x 3½" x ⅜" ANGLE
- BASE PLATES MADE FROM ½" PLATE
- POSTS TO BE MOUNTED WITH ⅞"
- STAR ANCHORS 6" LONG



REAR ELEVATION

SCALE : 1" = 3'-0"



BRACING DETAIL

SCALE : 2" = 1'-0"

MATERIALS LIST

DESCRIPTION	QUANTITY	
TYPE 'A' POSTS	9	3½ x 3½ x ⅜ L 130' REQD (APPROX 10% EXTRA)
TYPE 'B' POSTS	3	
½" STAR ANCHORS 6" LONG	36	
⅝" GALVANIZED EYEBOLT 12" LONG C/W NUT & WASHER	18	
½" CABLE CLAMPS	36	
½" GALVANIZED WIRE ROPE	184 FT. (10% EXTRA)	

INDIAN AFFAIRS & NORTHERN DEVELOPMENT
NATIONAL & HISTORIC PARKS BRANCH – CANALS

AFFAIRES INDIENNES ET DU NORD CANADIEN
DIRECTION DES PARCS NATIONAUX ET DES LIEUX HISTORIQUES – CANAUX

TRENT CANAL SYSTEM

HANDRAILS

HALL'S LAKE DAM

SCALE/ÉCHELLE AS NOTED
DATE/DATE JULY '74
DESIGNED/ÉTABLI D.B.
DRAWN/TRACÉ D.B.
CHECKED/VÉRIFIÉ T.J.A.
SUPERINTENDING ENGINEER/SURINTENDANT

TC 4436-G

DATE DATE	REVISIONS REVISIONS	BY PAR	CH'CK'D. VÉRIFIÉ

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Sherborne Lake Dam aka Trout**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Sherborne Road		
Topographic Map	-	Coordinates (dd/mm/ss)	N 45° 10' 15"
			W 78° 48' 50"
Drainage basin	Gull River		
Name of watercourse	-	Approximative elevation	- m
Name of lake / reservoir	Sherborne Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	3.1	m	Year of construction	1911	
Height of the reservoir	-	m	Year of rehabilitation	-	
Length of structure	32.6	m	Drawings and/or specifications	-	
Area of the reservoir	245	ha			
Storage capacity	-	m^3	Classification (PCA)	Low	
Catchment area	-	km^2	Overall condition	-	
			Category	-	

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

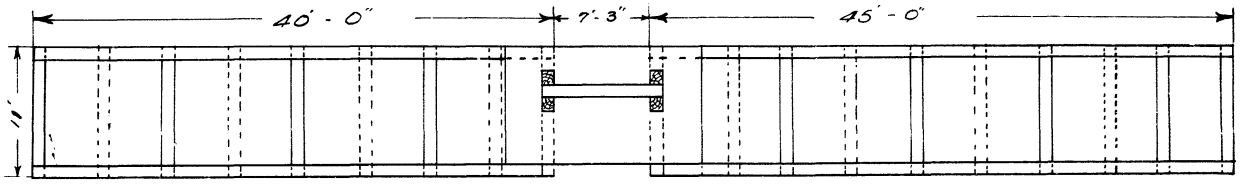
Comments -

SECTION X - REQUIRED DOCUMENTS

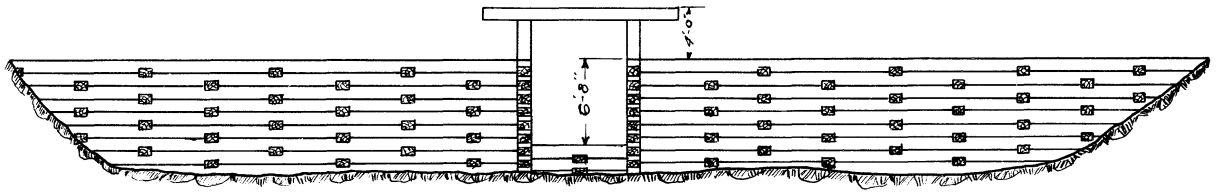
DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

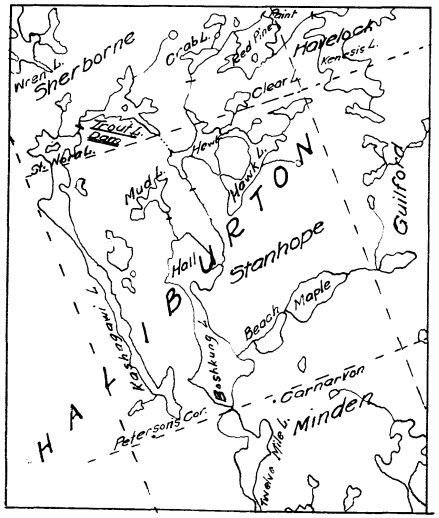
Last Engineering inspection by : - Date : - -



PLAN
Scale - 1" = 10'



ELEVATION
Scale - 1" = 10'

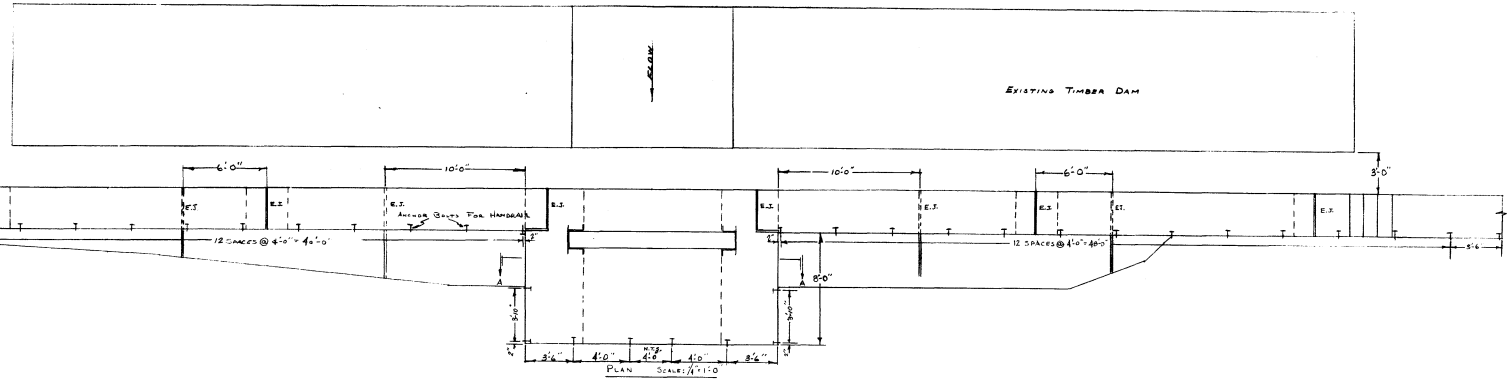


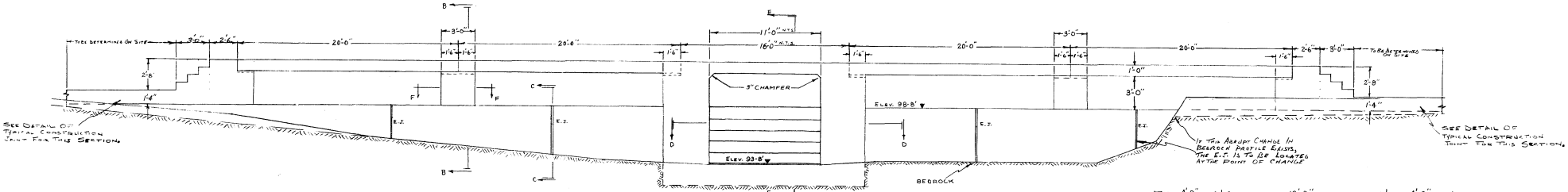
LOCATION PLAN
Scale - 1 inch = 3.94 mi.

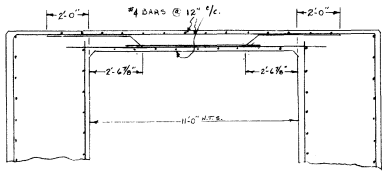
TRENT CANAL
Timber Crib Dam at Trout Lake
Lot 6 Concession 2 Sherborne

Scales - as shown Peterborough, Nov. 26, 1928

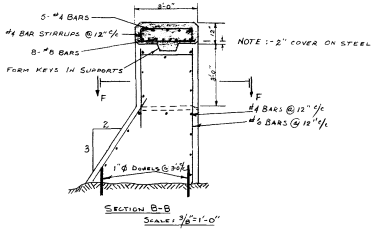
T-11-258
T.C.1443-B



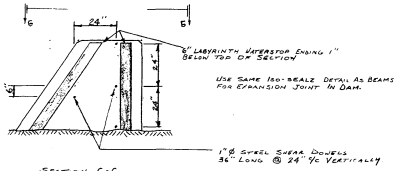




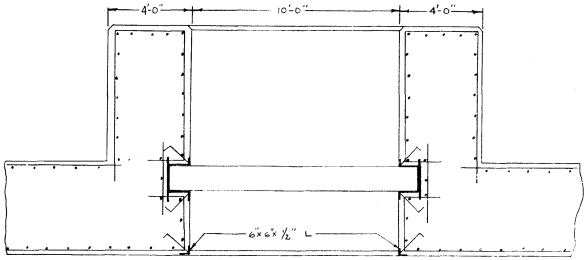
SECTION A-A
SCALE: 1/8"=1'-0"



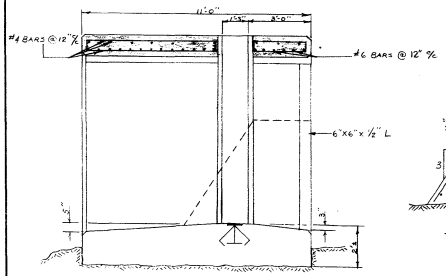
SECTION B-B
SCALE: 3/4"=1'-0"



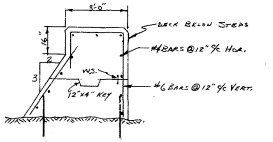
SECTION C-C
SCALE: 3/8"=1'-0"



SECTION D-D
SCALE: 3/8"=1'-0"

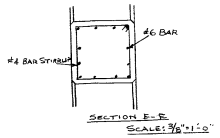


SECTION E-E
SCALE: 3/8"=1'-0"

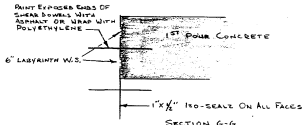


TYPICAL CONSTRUCTION JOINT
SCALE: 3/8"=1'-0"

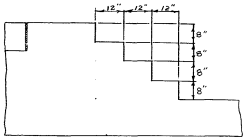
VERTICAL CONST. JOINT SAME DIMENSIONS. WATERSTOP TO BE INSTALLED ON UNTREAD SIDE OF KEY.



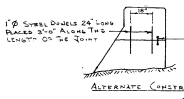
SECTION E-E
SCALE: 3/8"=1'-0"



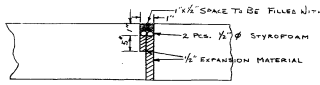
SECTION G-G
SCALE: 3/8"=1'-0"



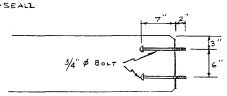
STEP DETAIL
SCALE: 1/2"=1'-0"



ALTERNATE CONSTRUCTION JOINT
SCALE: 1/4"=1'-0"



EXPANSION JOINT FOR BEAMS
N.T.S.



DETAIL OF HANDRAIL FASTENING
SCALE: 1"=1'-0"

COVER ON REINFORCING STEEL SHOULD BE 3" UNLESS NOTED
W.S. - WATER STOP
E.J. - EXPANSION JOINT.

DEPARTMENT OF TRANSPORT

MARINE WORKS

CANALS DIVISION

TRENT CANAL SYSTEM

TROUT LAKE DAM

June /71	CORRECT DETAIL	W.H.C.	
DATE:	REVISIONS:	MADE:	CH'CK'D:

SCALE: As Shown

DESIGN:

DRAWN: D.L.H.

CHECKED:

DATE: APRIL 1970.

SUPERINTENDING ENGINEER

T.C. 3910-G

T-11-258.1

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Kushog Lake Dam, aka Kashagawi**	AMS Number :	**11400**
Comments / Description	Concrete Gravity Dam		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Buckslide Rd via CR 118		
Topographic Map	031E02 (Haliburton)	Coordinates (dd/mm/ss)	N 45° 03' 11"
			W 78° 45' 09"
Drainage basin	Gull River		
Name of watercourse	Boshkung River	Approximative elevation	≈ 331 m
Name of lake / reservoir	Kushog Lake (& St. Nora)		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	6.06552	m	Year of construction	1909
Height of the reservoir	5	m	Year of rehabilitation	-
Length of structure	58.2168	m	Drawings and/or specifications	Available
Area of the reservoir	915	ha		
Storage capacity	≈ 40M	m^3	Classification (PCA)	High A
Catchment area	-	km^2	Overall condition	C
			Category	Regulated Dam

Main use(s): Navigation Storage

Replacement cost: 79500 *according to AMS Data dating from :* 1997

Deffered Maintenance: -

24-08-2018

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

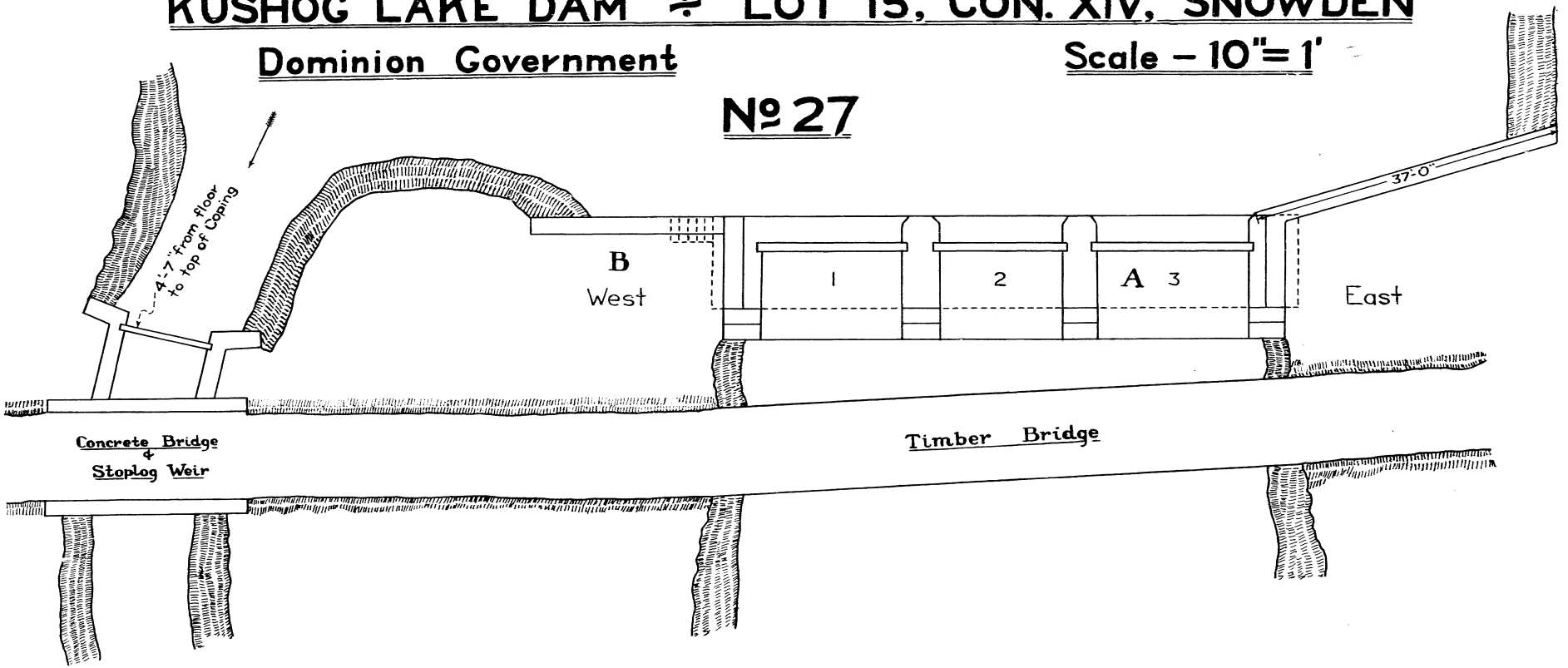
Last Engineering inspection by : - Date : - -

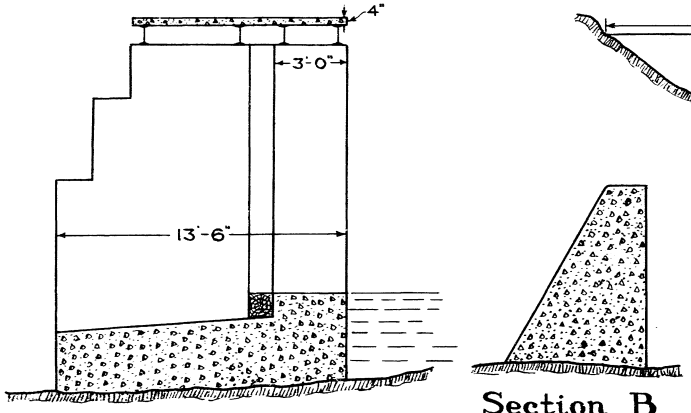
KUSHOG LAKE DAM ÷ LOT 15, CON. XIV, SNOWDEN

Dominion Government

Scale – 10"= 1'

№ 27

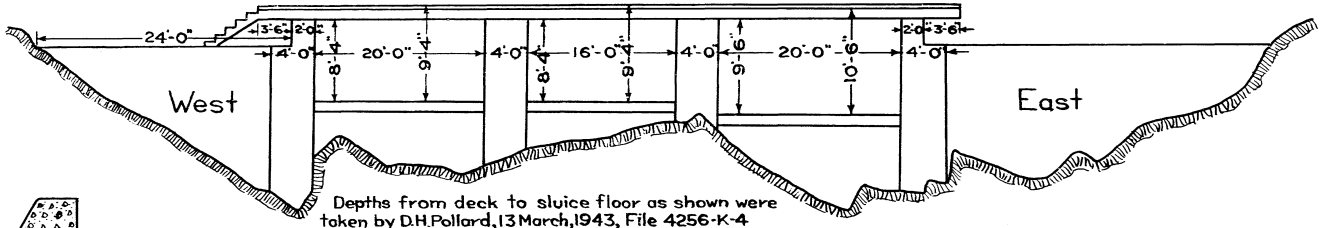




Section A

Section B

Scale – 5'=1"



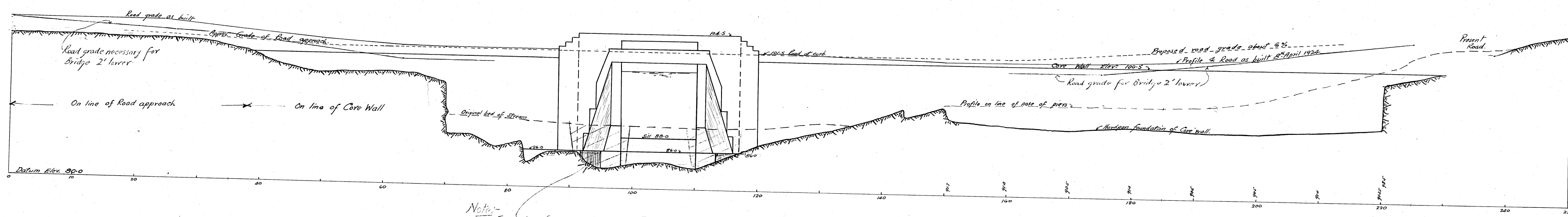
Depths from deck to sluice floor as shown were taken by D.H.Pollard, 13 March, 1943, File 4256-K-4

Full of Lake = 5'-0", measured in East sluice.

Concrete Dam
Built 1909

T-11-270.1

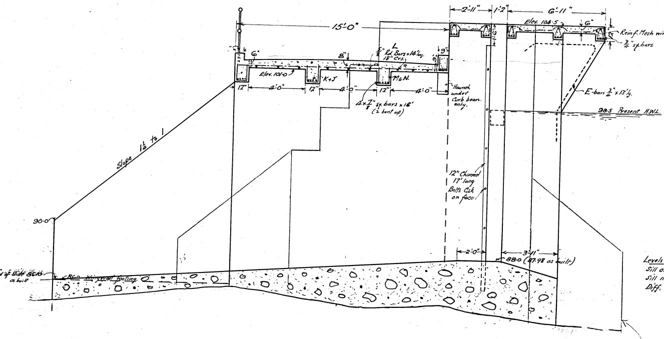
T.C. 1937-E



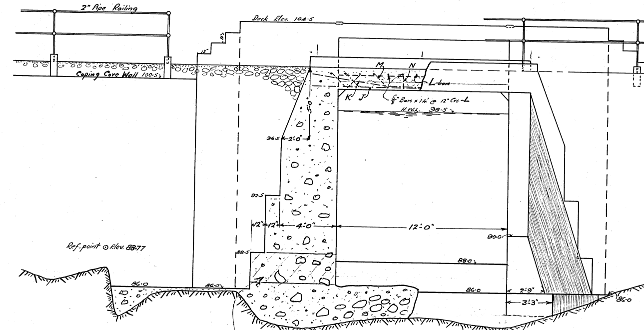
Note:- Excavation for part of abutment & wingwalls = 50 cu.yds.

PROFILE

Scale 1/8 in.=1 ft.



SECTION THRO' SLUICE

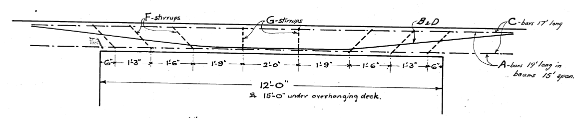


SECTIONAL ELEVATION

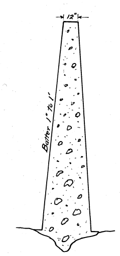
Note:- Concrete in dam & bridge as built less concrete for a dam only (shown in pencil) less amount in lower section of bridge abutment (dam raised) (bridge lowered 2 feet to same level as old bridge) = 75 cu.yds.

BILL OF REINFORCING

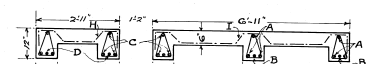
	Mark	Size	Length	Nº
In Dam	A	3/4" sq.twist.	19'-0"	6
	B	3/4" " "	19'-0"	2 -bent
	C	3/4" " "	17'-0"	9
	D	3/4" " "	17'-0"	3- bent
	E	3/4" " "	13'-0"	8 - bent in nose brackets
	F	3/8" dia.	13½"	30 Δ-Stirrups
	G	3/8" "	9½"	10 "
	H	7'-2" wide	4'-6"	2 pcs. Mesh wire
	I	7'-2" "	9'-0"	2 " " "
In Bridge	J	7/8" sq.twist.	16'-0"	8
	K	7/8" " "	16'-0"	8 bent
	L	5/8" dia. Rd.	14'-0"	23
	M	3/8" "	17"	24 U-stirrups
	N	3/8" "	13"	8 "



Long.l Section thro' Deck Beam of Dam

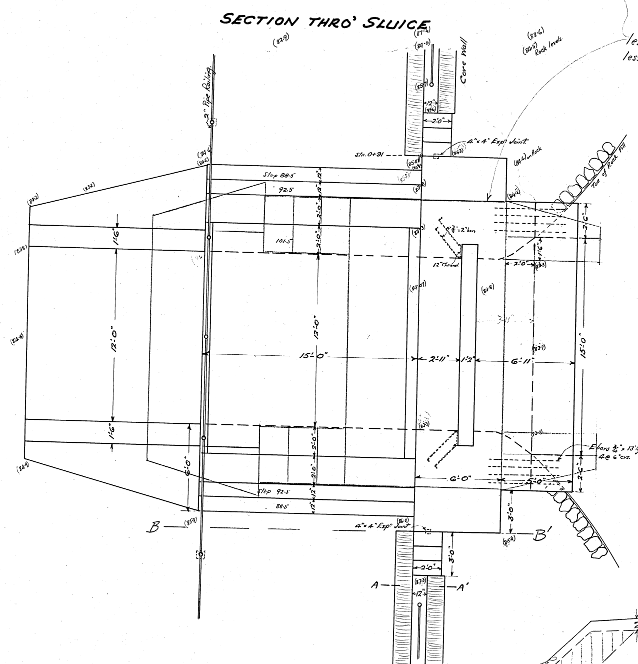


CORE WALL - SECTION A-A'

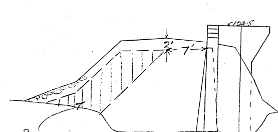


Cross Section thro' Deck of Dam showing reinforcing

Scale 1/2" = 1'



PLAN



Portion of Fill chargeable to Bridge Construction

SECTION B-B'

Scale 1" = 10'

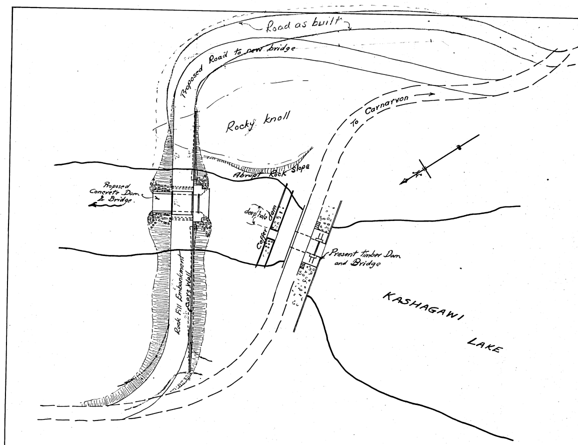
TRENT CANAL

RESERVOIR WATERS

DAM AND BRIDGE AT OUTLET OF KASHAGAWI LAKE

Lot 6 Con. II Tp. of Stanhope

Scale 1/4 in. = 1 ft.



KEY PLAN

Scale 1" = 40'

Superintendent's Office
Peterborough 25th Sept. 1923
Revised 8th Oct. 1923

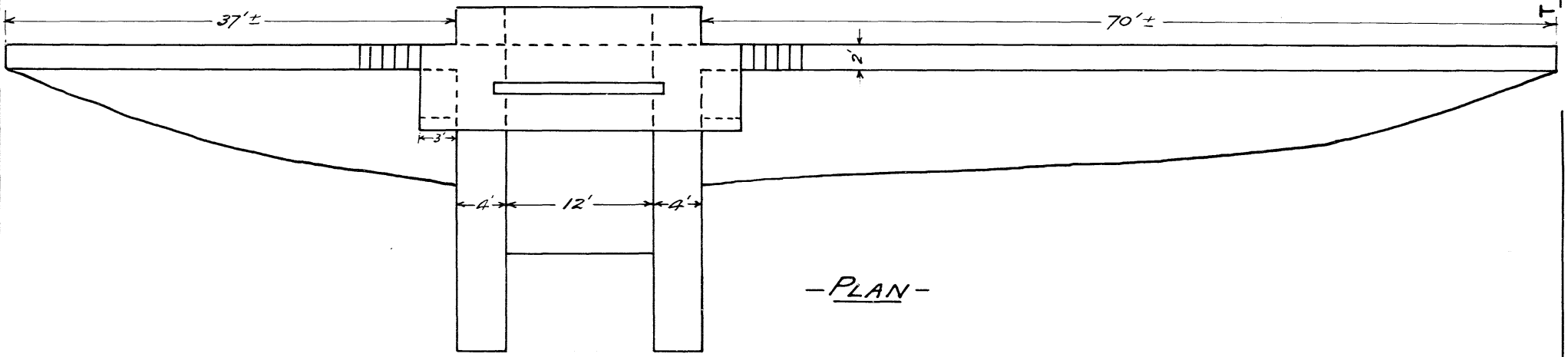
D-5-4061

T-11-109 ✓

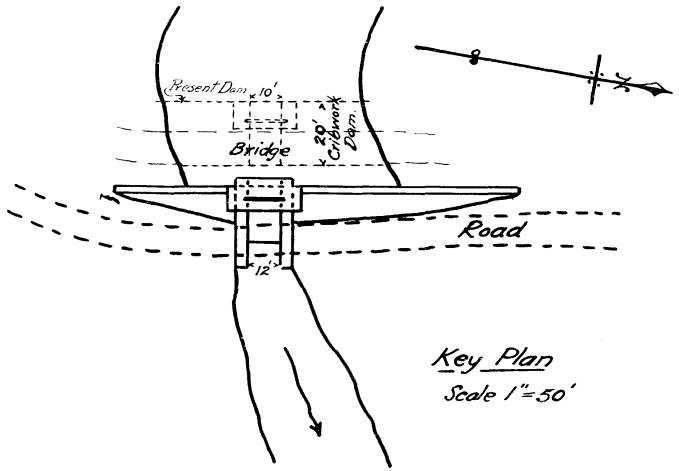
D-5-4061

14-4

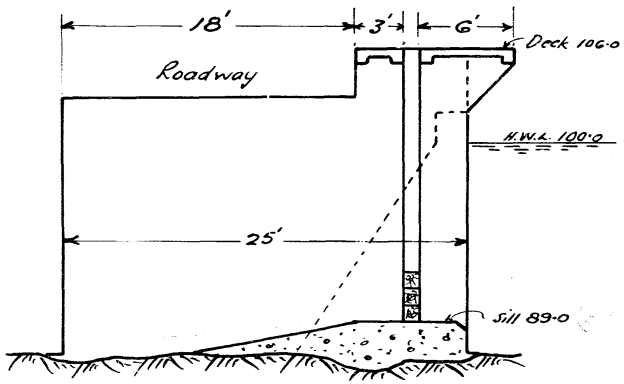
TC 1539-A



-PLAN-



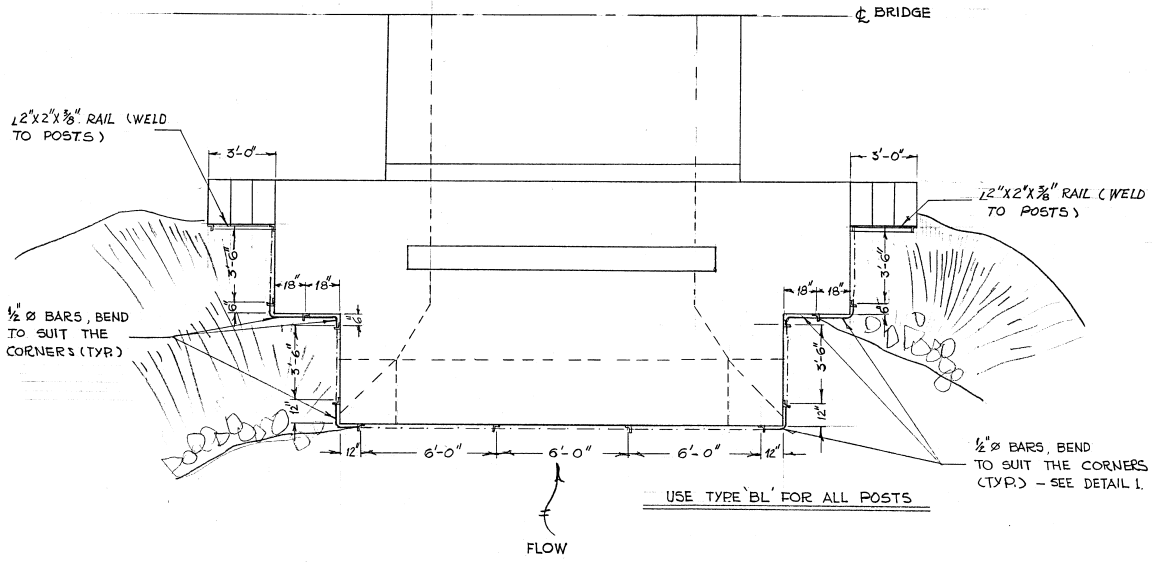
Key Plan
Scale 1"=50'



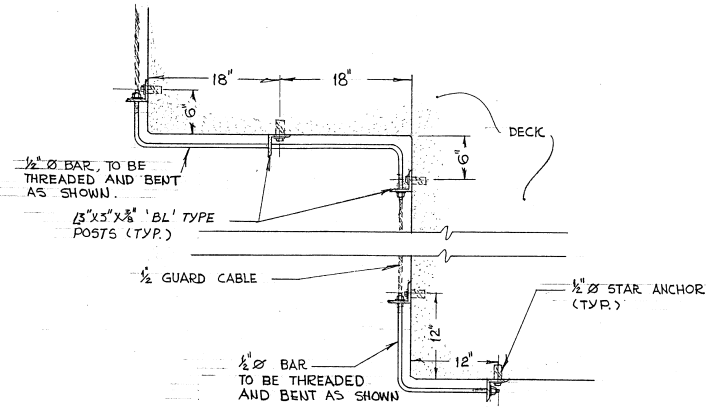
Section thro' Sluice

TRENT CANAL
RESERVOIR WATERS
Proposed Dam at Outlet of
KASHAGAWI LAKE
Lot 6 Con. II. Tp. of Stanhope
Scale 1"=10'

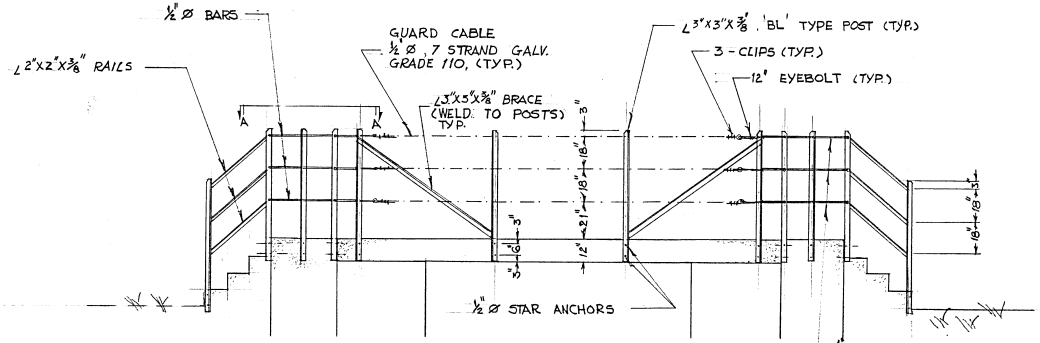
T-11-223
Superintendent's Office
Peterborough 29th Nov. 1922.



PLAN
SCALE: ¼" = 1'-0"



VIEW A – A
SCALE: 1" = 1'-0"



ELEVATION
SCALE: ¼" = 1'-0"

NOTE:
1. BRACE REQ'D FOR END AND CORNER POSTS
2. TYPE OF POST - SEE DWG. T.S.W 4605 C
3. PAINT: ONE SHOP COAT - PRIMER

Indian and Northern Affairs | Affaires indiennes et du Nord
Parks Canada | Parcs Canada

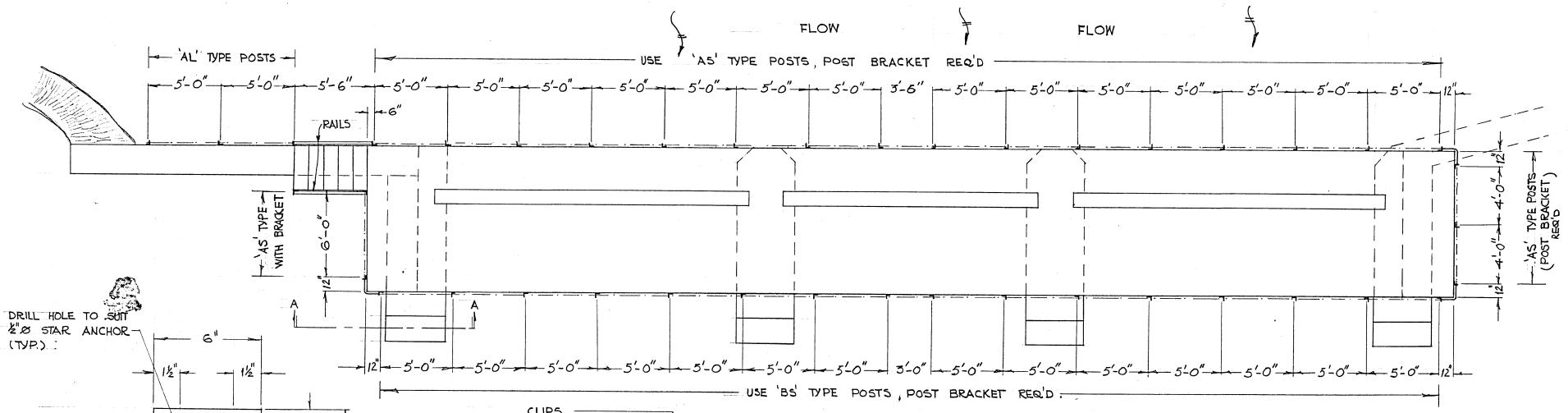
TRENT-SEVERN WATERWAY

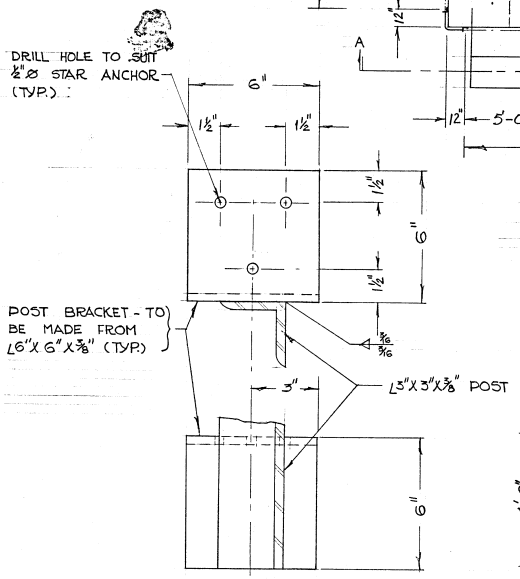
TITLE: INSTALLATION GUARD RAIL KASHAGAWIGAMOG LAKE DAM

DRAWN BY: SWC
DESIGNED BY:
CHECKED BY:
RESPONSIBLE OFFICER

SCALE: AS SHOWN
DATE: MAR. 1/76

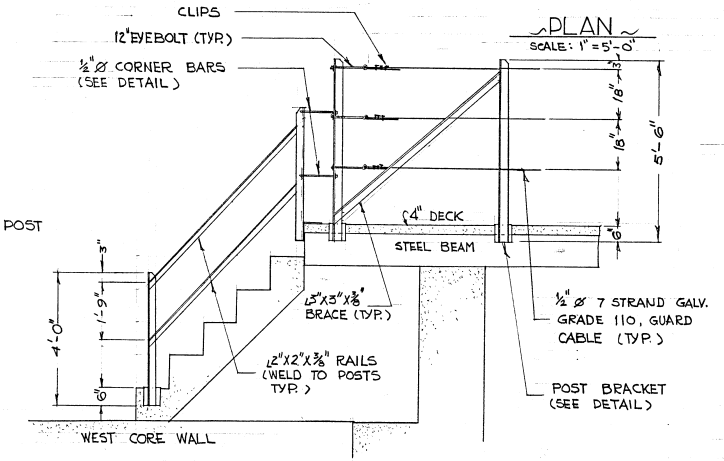
TSW. 4609 C





POST BRACKET DETAIL

SCALE: ¼" = 1"

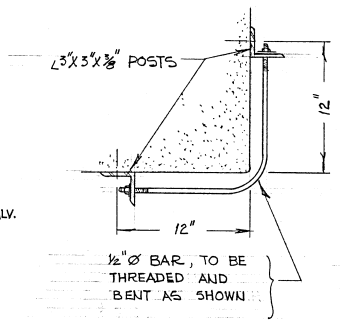


PLAN

SCALE: 1" = 5'-0"

VIEW A – A

SCALE: ⅜" = 1'-0"



CORNER BAR DETAIL

SCALE: ⅛" = 1"

NOTE:

1. TYPES OF POST, SEE DWG. T.S.W 4605 C
2. CUT 'AS' AND 'BS' TYPE POSTS TO REQ'D LENGTH AND WELD TO POST BRACKET
3. BRACE REQ'D FOR END AND CORNER POSTS
4. PAINT: ONE SHOP COAT - PRIMER

Indian and Northern Affairs / Affaires Indiennes et du Nord

Parks Canada / Parcs Canada

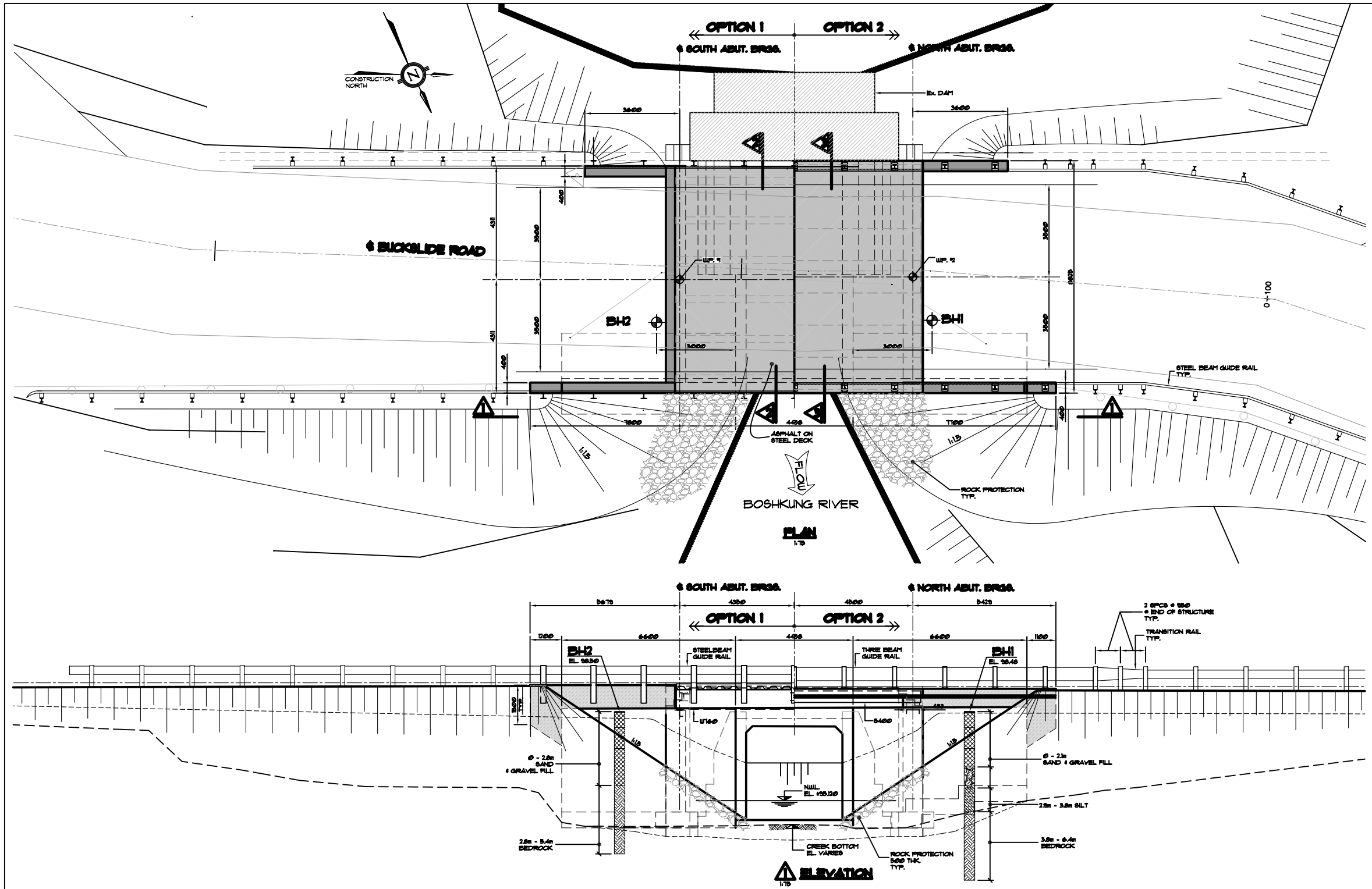
TRENT-SEVERN WATERWAY

TITLE: INSTALLATION GUARD RAIL KUSHOG LAKE DAM

DRAWN BY: SWC
DESIGNED BY:
CHECKED BY:
RESPONSIBLE OFFICE:

SCALE: AS SHOWN
DATE: APR./76

TSW 4617 C



GENERAL NOTES:

ALL INFORMATION TO BE VERIFIED ON SITE PRIOR TO COMMENCING ANY WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT IMMEDIATELY.

ALL UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL CONFIRM THE LOCATION ON SITE AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES.

EXCLUDING THE BENCHMARK AND DESCRIPTION PROVIDED FOR THIS PROJECT, NO OTHER ELEVATIONS ARE TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

METRIC NOTE:

ALL DIMENSIONS SHOWN ARE IN METRES OR MILLIMETRES UNLESS OTHERWISE NOTED.

** DRAWINGS ARE NOT TO BE SCALED **

BENCHMARK NOTE:

REVISIONS

No.	Date	Description	By

LEGEND:

G.D. JEWELL ENGINEERING INC.
CONSULTING ENGINEERS

KINGSTON
TEL: (613) 389-7250
FAX: (613) 389-2754
E-mail: kcon@bellnet.ca

BELLEVILLE
TEL: (613) 969-1111
FAX: (613) 969-8988
E-mail: info@jewell-eng.ca

MISSISSAUGA
TEL: (905) 855-1582
FAX: (905) 855-5428
E-mail: gdjewell@bell.net.ca

TOLL FREE 1-800-966-4338

TOWNSHIP OF
ALGONQUIN HIGHLANDS
BUCKSLIDE DAM BRIDGE
REPLACEMENT

GENERAL ARRANGEMENT
EXISTING ALIGNMENT OPTIONS

Drawn by: N.K.	Project No: 28-2482
Designed by: K.F.B.	Date: SEPTEMBER 2008
Checked by: K.F.B.	Scale – Hor: AS NOTED Vert: AS NOTED
Approved by:	Contract No:
	Drawing No: 1

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Percy Lake Dam**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	West Side of Percy Lake		
Topographic Map	-	Coordinates (dd/mm/ss)	N 45° 12' 17"
			W 78° 23' 31"
Drainage basin	Gull River		
Name of watercourse	-	Approximative elevation	- m
Name of lake / reservoir	Percy Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	3.8	m	Year of construction	1933
Height of the reservoir	-	m	Year of rehabilitation	-
Length of structure	77.7	m	Drawings and/or specifications	-
Area of the reservoir	563	ha		
Storage capacity	-	m^3	Classification (PCA)	Significant
Catchment area	-	km^2	Overall condition	-
			Category	-

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

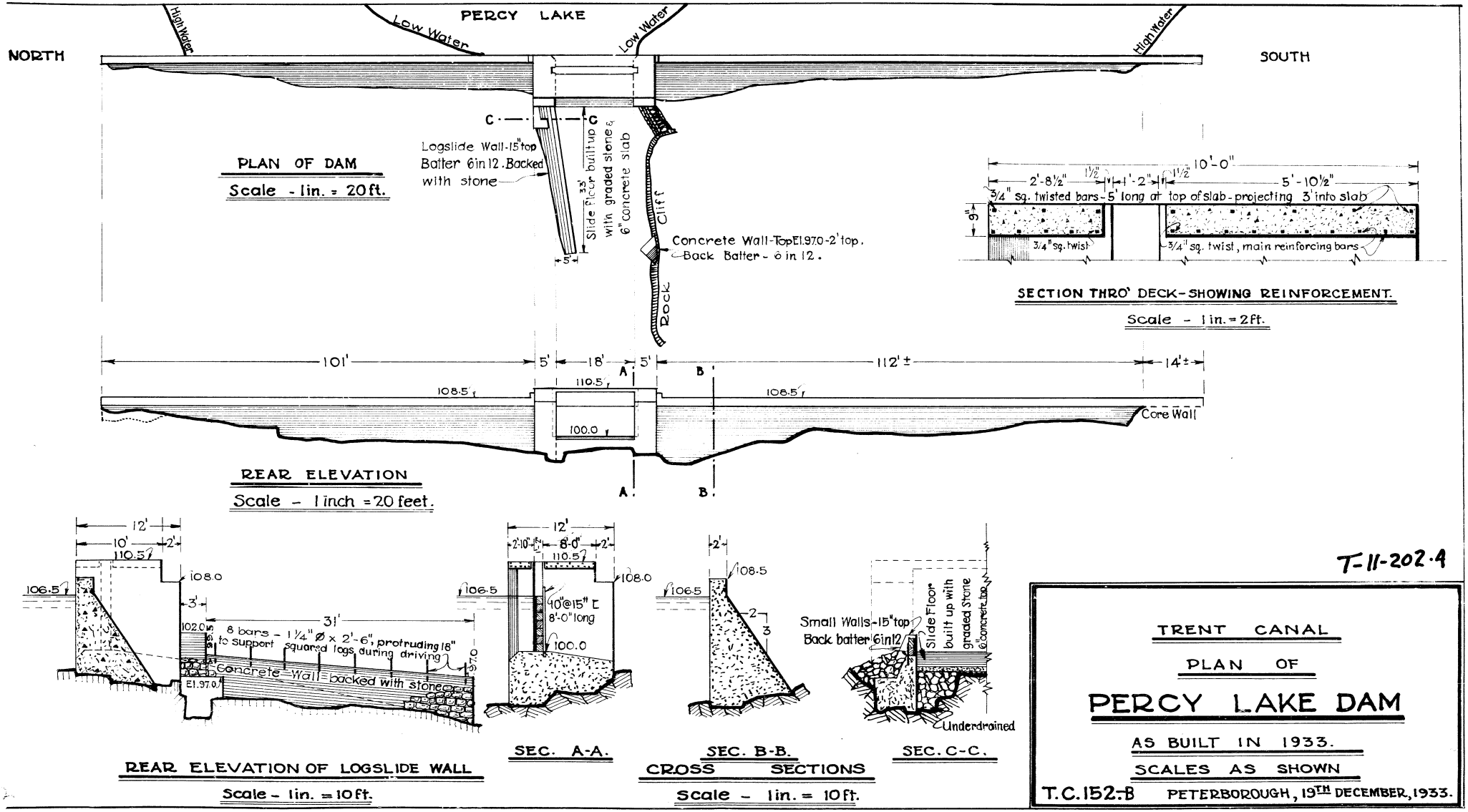
Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -



T-11-202-4

TRENT CANAL

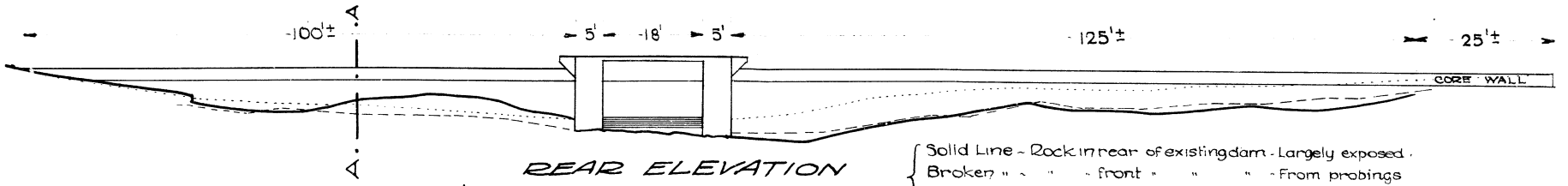
PLAN OF

PERCY LAKE DAM

AS BUILT IN 1933.

SCALES AS SHOWN

T.C.152-B PETERBOROUGH, 19TH DECEMBER, 1933.



REAR ELEVATION

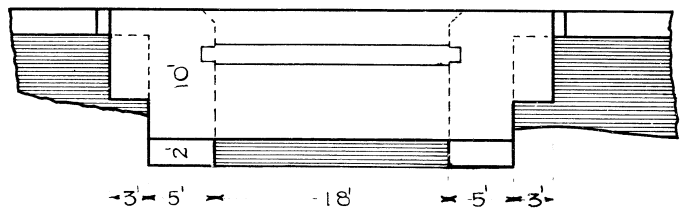
Solid Line - Rock in rear of existing dam - Largely exposed.
Broken " - " " - front " " " - From probings
Dotted " - Earth " " " " "

PERCY LAKE

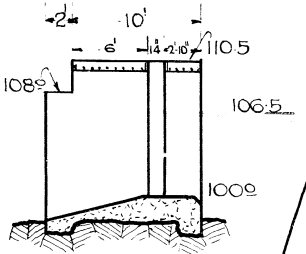
Low Water

High Water

Magnetic

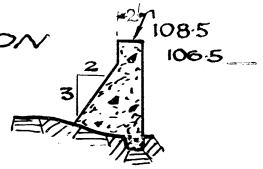


PLAN OF SLUICEWAY AND PARTS OF GRAVITY SECTION



SECTION THROUGH SLUICE

SILL EXISTING DAM = 100.0



SECTION A-A

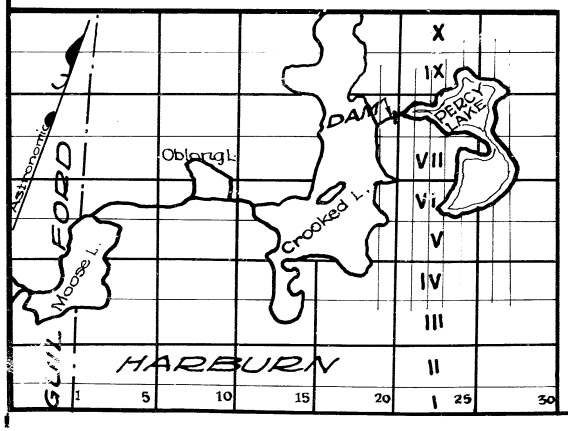
EXISTING TIMBER DAM AND SITE OF PROPOSED CONCRETE DAM

Prop. Core Wall

New Sluiceway to be located on the same site as old one.

Rock Bluff

LOCATION PLAN - 1" = 1.97 MI.



T-11-202.3

T.C.90.B

TRENT CANAL

PLAN OF PROPOSED

NEW CONCRETE DAM

AT THE OUTLET OF

PERCY LAKE

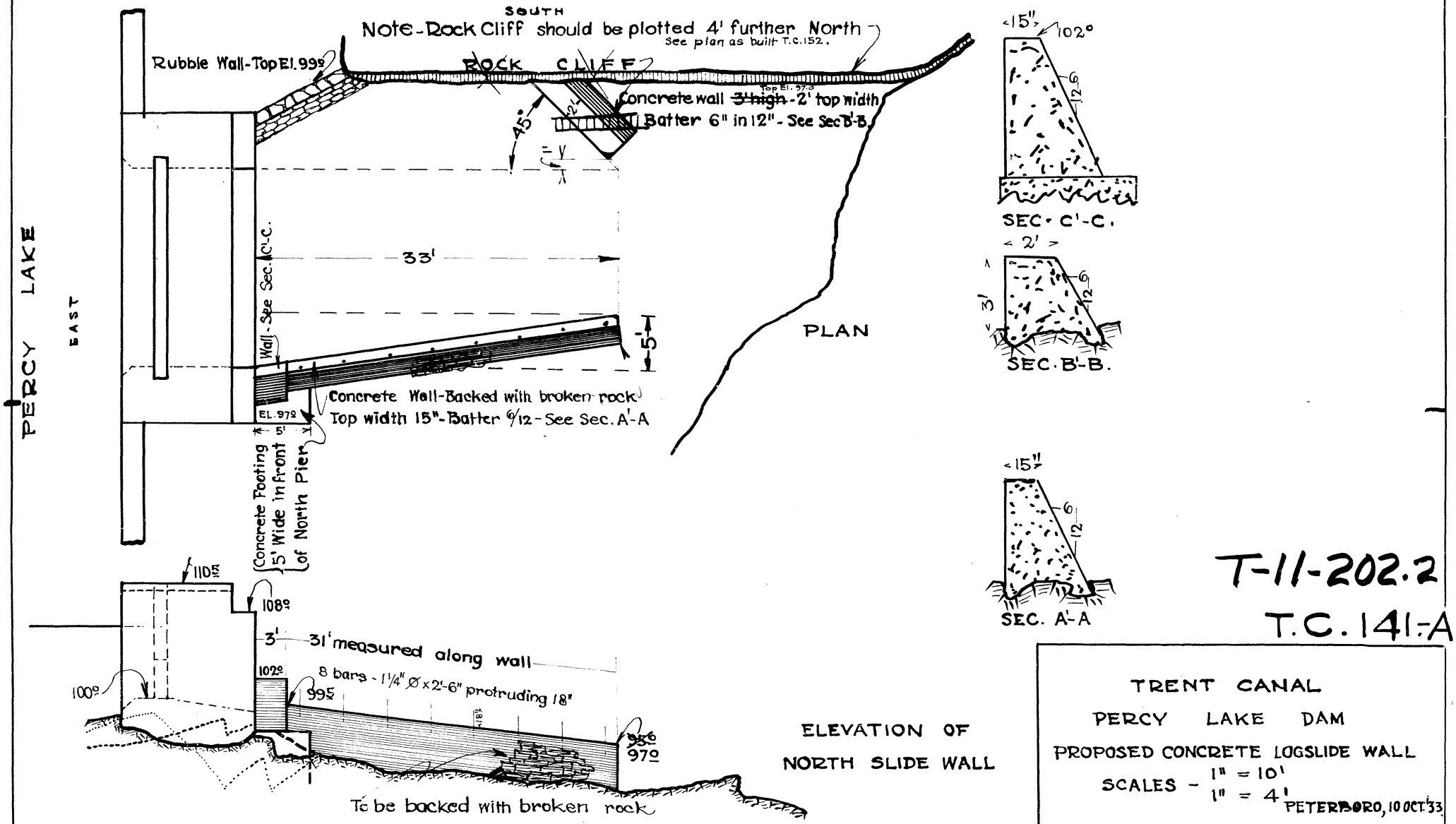
LOT 20, CON. VIII TP. OF HARBURN

SCALES - 1" = 20'
1" = 10'.

31 OCT. '32.

PETERBORO ~~13 NOV 32~~

FILE-19-17.



ELEVATION OF NORTH SLIDE WALL

T-11-202.2

T.C.141-A

TRENT CANAL

PERCY LAKE DAM

PROPOSED CONCRETE LOGSLIDE WALL

SCALES - 1" = 10'
1" = 4'

PETERBORO, 10 OCT. 33

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Redstone Lake East Main Dam**	AMS Number :	**11400**
Comments / Description	Concrete Gravity		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Unnamed road via CR 14		
Topographic Map	031E02 (Haliburton)	Coordinates (dd/mm/ss)	N 45° 09' 50"
			W 78° 30' 01"
Drainage basin	Gull River		
Name of watercourse	East Redstone River	Approximative elevation	≈ 364 m
Name of lake / reservoir	Redstone Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	5.8674	m	Year of construction	1910
Height of the reservoir	5	m	Year of rehabilitation	2003
Length of structure	53.34	m	Drawings and/or specifications	Available
Area of the reservoir	1422	ha		
Storage capacity	≈ 65M	m^3	Classification (PCA)	High A
Catchment area	-	km^2	Overall condition	B
			Category	Regulated Dam

Main use(s) Navigation

Replacement cost 57000 *according to AMS Data dating from :* 1997

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

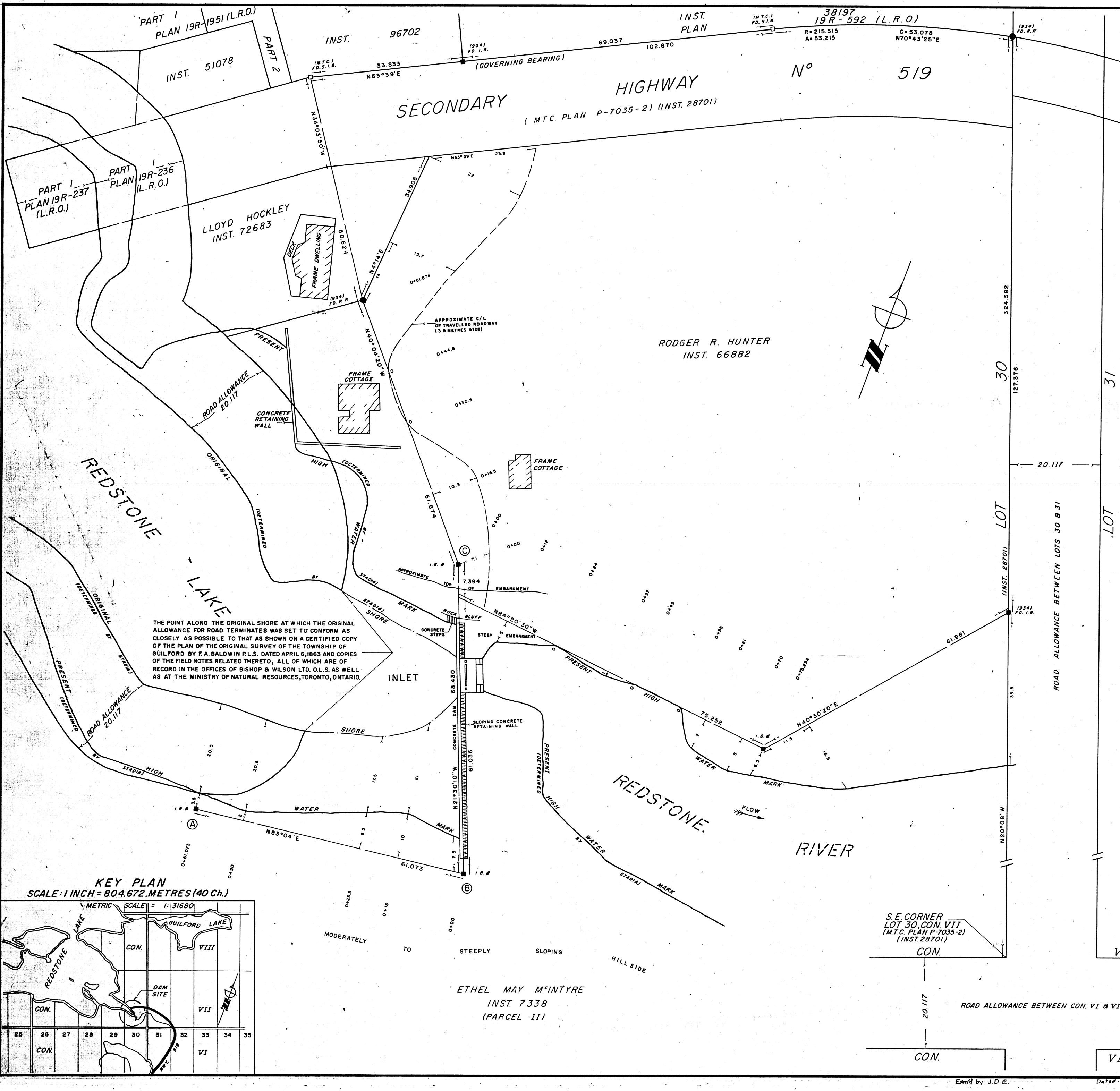
Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -



[redacted]

CANADA LANDS SURVEYS RECORDS
6 6 7 0 2
DATE: 11 APRIL 1980

TOPOGRAPHICAL PLAN
OF SURVEY OF
PART OF LOT 30, CON. VII
TOWNSHIP OF GUILFORD
PROVISIONAL COUNTY OF HALIBURTON
PROVINCE OF ONTARIO
REDSTONE LAKE DAM SITE (EAST)

METRIC SCALE = 1:400

0 5 10 20 30 40 50 METRES

SURVEYED BY PAUL WILSON O.L.S.
NOVEMBER 12 TO DECEMBER 20, 1979

LEGEND

BEARINGS ARE ASTRONOMIC, DERIVED FROM THE NORTHERLY LIMIT OF SECONDARY HIGHWAY 519 HAVING A BEARING OF N63°39'E AS SHOWN ON M.T.C. PLAN P-7035-2 (28701 R.O.) AND REFERRED TO THE MERIDIAN THROUGH THE S.W. CORNER OF LOT 14, CONCESSION I, TOWNSHIP OF GUILFORD. (LONGITUDE 78°33'10" W)

□ S.I.B.	DENOTES STANDARD IRON BAR. (2.5cm. sq. BY 120cm. LONG)
■ I.B.∅	DENOTES 1.9cm DIA. ROUND IRON BAR. (60cm. LONG)
■ I.B.	DENOTES 1.6cm SQ. IRON BAR. (75cm. LONG)
● R.P.	DENOTES ROCK POST. (1.6cm. HEX. BOLT)
(M.T.C.)	DENOTES MINISTRY OF TRANSPORTATION & COMMUNICATION.
(934)	DENOTES H.C. BISHOP O.L.S.
FD.	DENOTES FOUND.
———	DENOTES TRAVERSE LINE.
(L.R.O.)	DENOTES LAND REGISTRY OFFICE.

METRIC

MEASUREMENTS SHOWN ON THIS PLAN ARE IN METRES AND MAY BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

NOTE

1. THE ORIGINAL HIGH WATER MARK SHOWN HEREON IS THE BEST AVAILABLE EVIDENCE OF THE HIGH WATER MARK EXISTING AT THE TIME OF THE ORIGINAL SURVEY OF THE TOWNSHIP OF GUILFORD.
2. THE ORIGINAL SHORE WAS DETERMINED BY SOUNDINGS AT A DEPTH OF 2.9 METRES BELOW THE MAXIMUM CONTROLLED LEVEL OF REDSTONE LAKE.
3. SHORE TIES ARE PERPENDICULAR TO THE TRAVERSE LINE UNLESS INDICATED OTHERWISE.
4. THE CONTROLLED MAXIMUM AND MINIMUM LEVEL OF THE LAKE WAS DETERMINED BY A CHART ISSUED BY PARKS CANADA AND OF RECORD IN THE OFFICE OF BISHOP & WILSON LTD. O.L.S. WHICH INDICATES THE GAUGE READING AT THE DAM INLET UNDER MAXIMUM AND MINIMUM STORAGE CONDITIONS.

SURVEYOR'S CERTIFICATE

1. THIS PLAN WAS PREPARED FOR PARKS CANADA UNDER INSTRUCTIONS FROM THE SURVEYOR GENERAL OF CANADA DATED NOVEMBER 8, 1979.
2. THIS PLAN WAS COMPLETED DECEMBER 20, 1979.

HALIBURTON, ONT.,
DECEMBER 21, 1979.

Paul Wilson
PAUL WILSON
ONTARIO LAND SURVEYOR

NOTE: 1 DENOTES PRESENT HIGH WATER MARK.
2 DENOTES ORIGINAL SHORE.

STADIA SCHEDULE

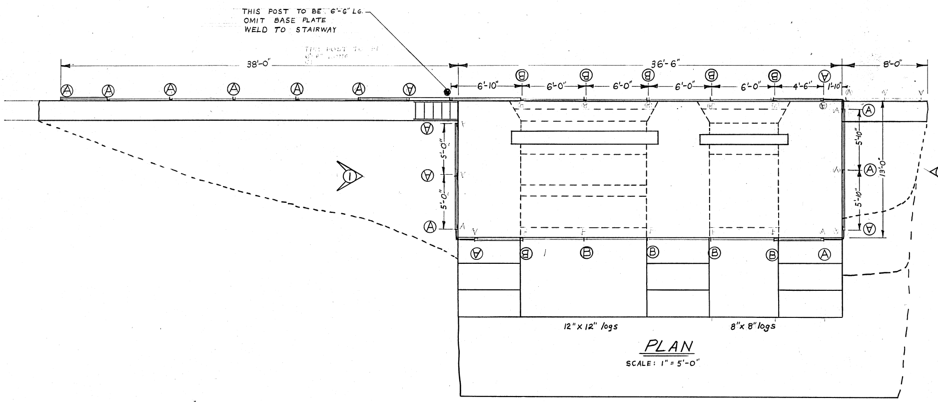
SCHEDULE OF MEASURED AZIMUTHS (FROM ASTRONOMIC NORTH) AND MEASURED DISTANCES (METRES) FROM POINTS (A) TO (C) RESPECTIVELY TO VARIOUS POINTS BY STADIA METHODS.

STATION	AZIMUTH	DISTANCE	REMARKS
(A)	325°30'	109.5	2
	327°15'	109.0	1
	332°10'	97.8	1
	334°30'	101.4	1
	346°30'	106.4	1
	350°20'	67.0	2
	350°20'	103.2	1
	355°15'	82.4	1
	359°00'	53.3	2
	8°50'	57.4	2
	8°50'	78.0	1
	14°40'	58.0	2
	14°40'	62.5	1

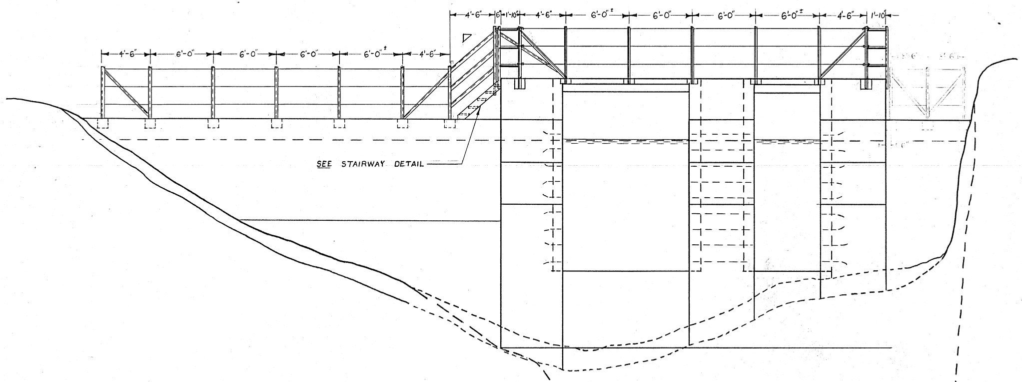
STATION	AZIMUTH	DISTANCE	REMARKS
(A)	29°10'	61.2	2
	29°10'	66.8	1
(B)	6°15'	39.5	1
	24°40'	24.7	1
	64°30'	32.2	1
	80°50'	58.2	1
(C)	261°35'	125.5	2
	259°40'	144.5	1
	250°00'	85.5	2
	246°40'	94.5	1
	229°00'	74.5	2
	221°50'	90.0	1

Exm'd by J.D.E. Dated 27/03/80 Item 7-79 PC Ont. K.G.H. OK

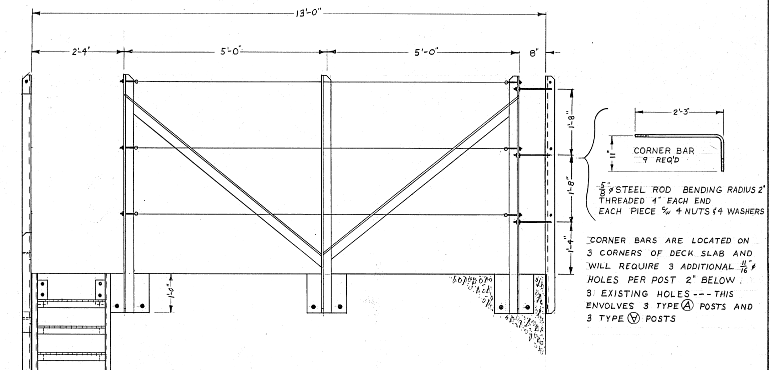
CLSR 66702



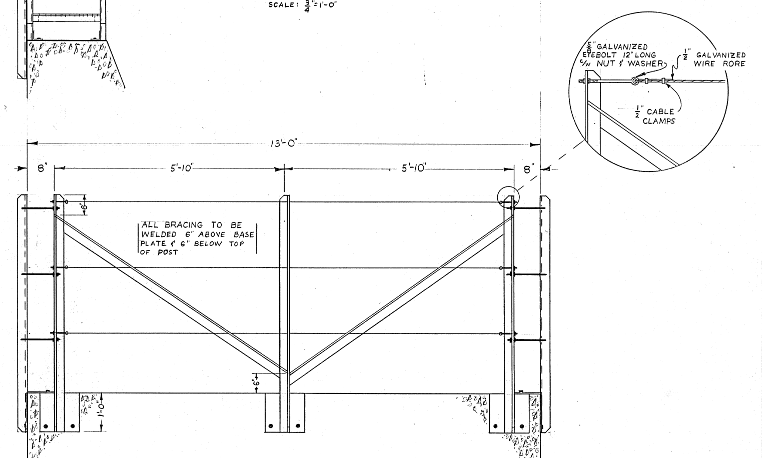
PLAN
SCALE: 1" = 5'-0"



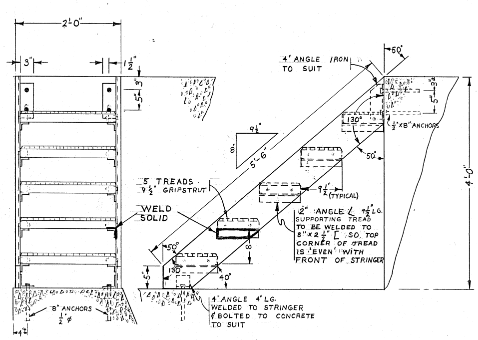
DOWNSTREAM ELEVATION
SCALE: 1" = 5'-0"



ELEVATION 1
SCALE: 3/4" = 1'-0"

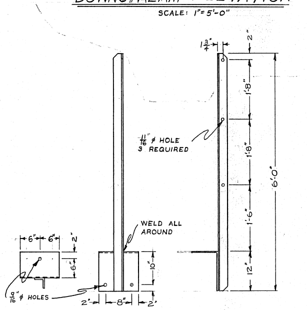


ELEVATION 2
SCALE: 3/4" = 1'-0"



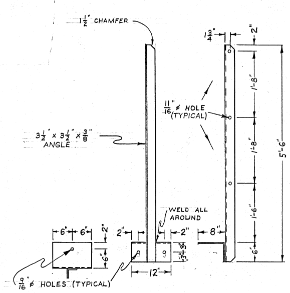
STAIRWAY DETAIL
SCALE: 1" = 1'-0"

MAT'L —
STRINGERS — 8" x 2 1/2" [12' REQ'D
TREADS — 9 1/2" x 2 1/2" GRIPSTRUT 10' REQ'D
TREAD SUPPORT — 2" L 9' REQUIRED
6 — 1/2" ϕ x 8" LG. ANCHOR BOLTS



POST DETAIL TYPE 'A'
SCALE: 3/4" = 1'-0"

NOTES: TEN (10) POSTS REQUIRED AS SHOWN (A) PLUS 1 SIMILAR 'STAIRWAY POST' 6'-6" LONG WITHOUT BASE PLATE & SIX (6) POSTS (OPPOSITE HAND TO SHOWN) (∀)



POST DETAIL TYPE 'B'
SCALE: 3/4" = 1'-0"

NOTES: FOUR (4) POSTS REQUIRED AS SHOWN (B) & FIVE (5) OPPOSITE HAND POSTS REQ'D (ꓭ)

ALL POSTS & BRACES ARE 3 1/2" x 3 1/2" x 3/8" ANGLE ∠
BASE PLATES MADE FROM 1/4" PLATE
POSTS TO BE MOUNTED WITH 1/2" ϕ x 6" LG. STAR ANCHOR
1 1/2" CHAMFER AT ALL CORNERS ON POSTS

MATERIAL LIST

DESCRIPTION	QUANTITY	
TYPE (A) POSTS	110	3 1/2" x 3 1/2" x 3/8" L POST & BRACES 260' REQ'D (10% EXTRA)
TYPE (∀) POSTS	6	
TYPE ● POSTS	1	
TYPE (B) POSTS	4	
TYPE (ꓭ) POSTS	5	
1/2" STAR ANCHORS 6" LG.	84	
5/8" x 12" GALVANIZED EYEBOLT	36	
1/2" CABLE CLAMPS	72	
1/2" GALVANIZED WIRE ROPE	425' FT	APPROX 10% EXTRA
CORNER BAR O 5/8" ϕ	9	

DATE DATE	REVISIONS REVISIONS	BY PAR	CH'CK'D VÉRIFIÉ

INDIAN AFFAIRS & NORTHERN DEVELOPMENT
NATIONAL & HISTORIC PARKS BRANCH – CANALS

AFFAIRES INDIENNES ET DU NORD CANADIEN
DIRECTION DES PARCS NATIONAUX ET DES LIEUX HISTORIQUES – CANAUX

TRENT CANAL SYSTEM

REDSTONE LAKE DAM
HANDRAILS

SCALE/ÉCHELLE AS SHOWN
DATE/DATE JULY 74
DESIGNED/ÉTABLI J.P.L.
DRAWN/TRACÉ J.P.L.
CHECKED/VÉRIFIÉ D.M.
SUPERINTENDING ENGINEER / SURINTENDANT

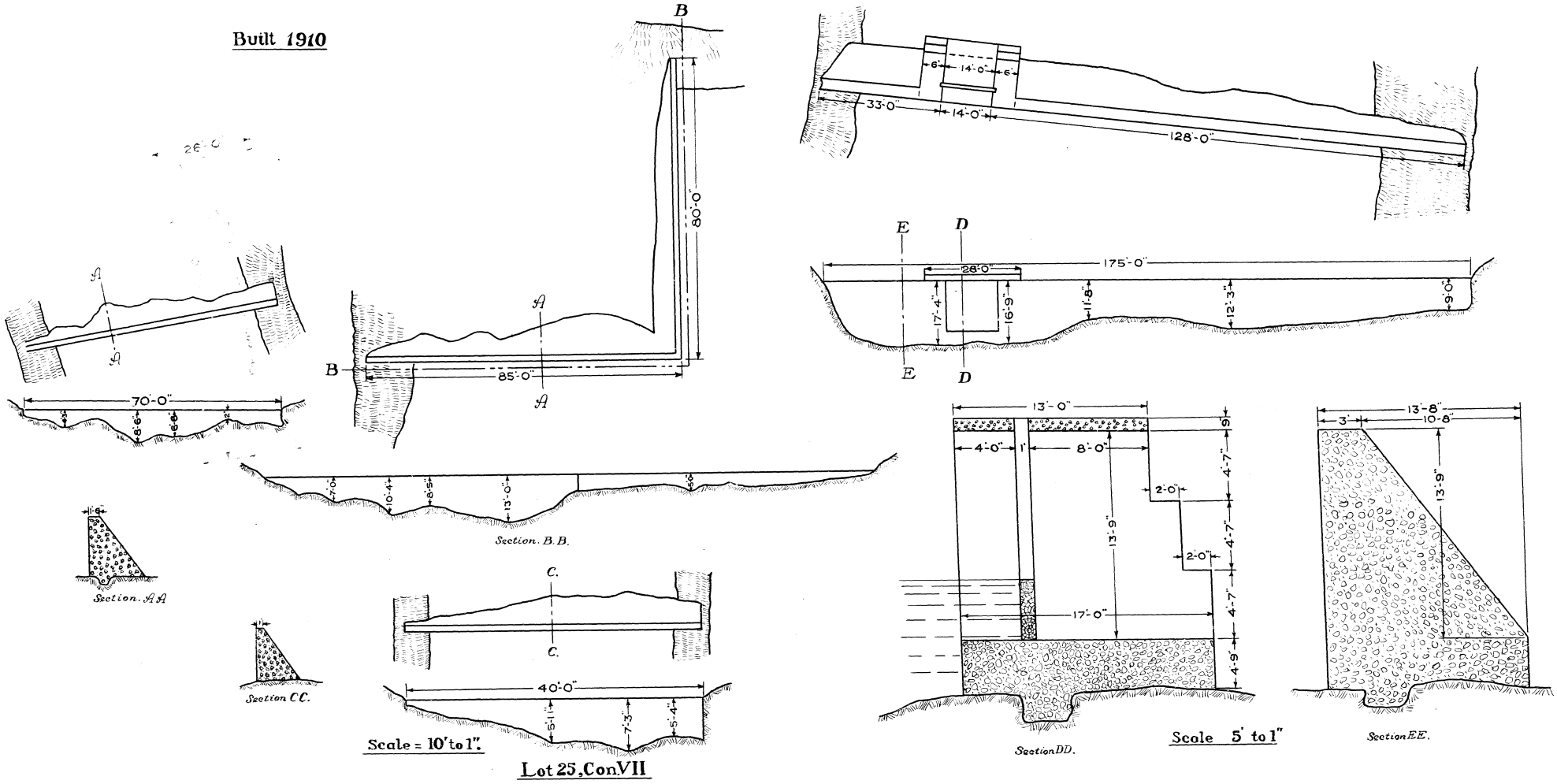
T.C. 4438-G

East Dam on Redstone Lake. Lot 30, Con. VII, GUILFORD.

Nº 12.

Dominion Government. Scale - 20' to 1".

Built 1910



T.C. 1939-9

T-11-206.2

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Redstone Lake West Dam**	AMS Number :	**11400**
Comments / Description	Concrete Gravity		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Redstone Lake rd via Kennisis Lake rd - CR 7		
Topographic Map	031E02 (Haliburton)	Coordinates (dd/mm/ss)	N 45° 09' 39" W 78° 33' 20"
Drainage basin	Gull River		
Name of watercourse	Redstone River	Approximative elevation	≈ 364 m
Name of lake / reservoir	Redstone Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	8.763	m	Year of construction	1918	
Height of the reservoir	7	m	Year of rehabilitation	-	
Length of structure	27.9146	m	Drawings and/or specifications	Available	
Area of the reservoir	1422	ha			
Storage capacity	≈ 95M	m^3	Classification (PCA)	High A	
Catchment area	-	km^2	Overall condition	A	
			Category	Regulated Dam	

Main use(s)	Navigation		
Replacement cost	79500	*according to AMS Data dating from :*	1997
Deffered Maintenance	-		

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -

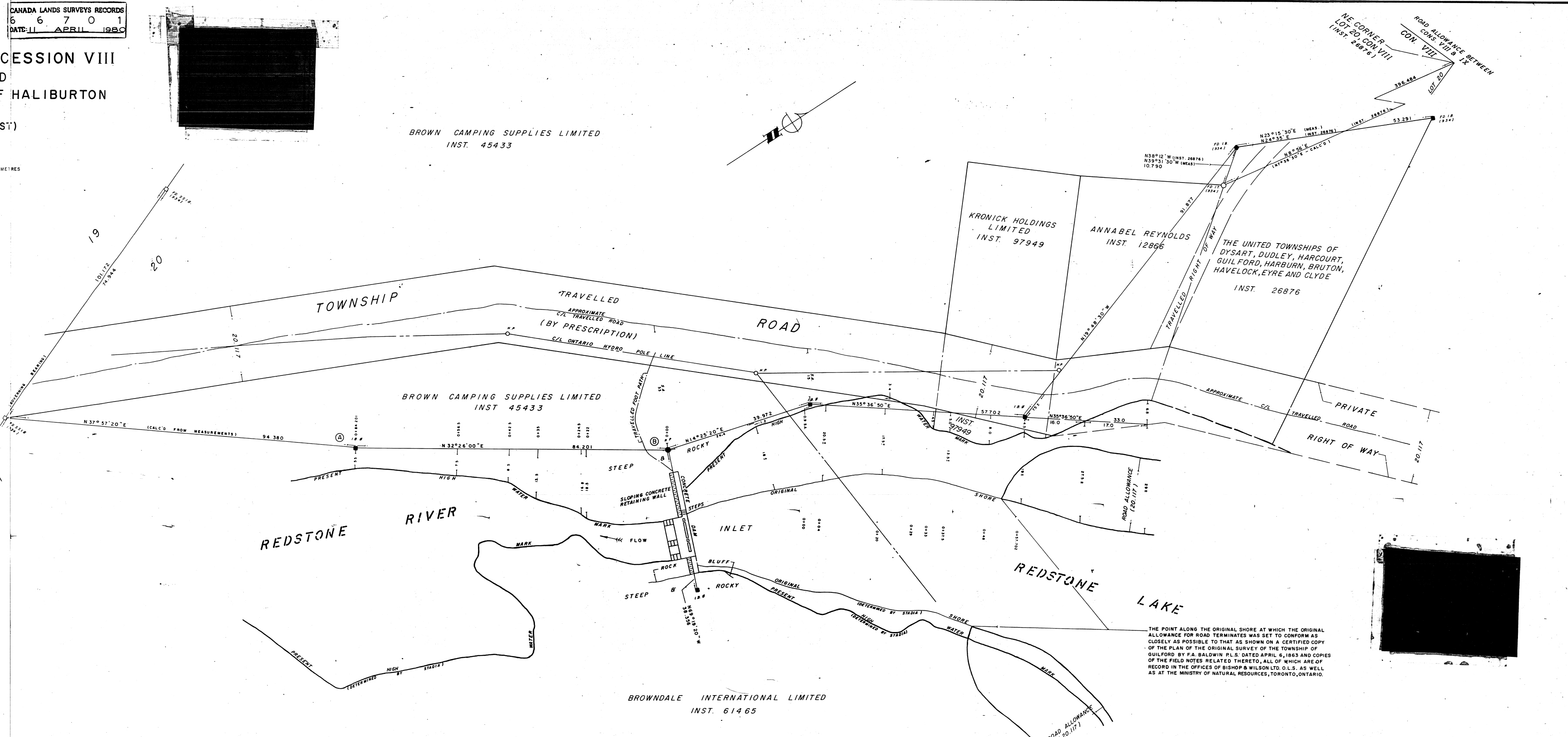
TOPOGRAPHICAL PLAN OF SURVEY OF
PART OF LOT 20, CONCESSION VIII
TOWNSHIP OF GUILFORD
PROVISIONAL COUNTY OF HALIBURTON
PROVINCE OF ONTARIO
REDSTONE LAKE DAM SITE (WEST)

[redacted]

METRIC SCALE= 1:400

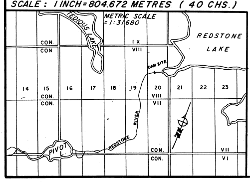
0 5 10 20 30 40 50 METRES

SURVEYED BY PAUL WILSON O.L.S.
NOVEMBER 12 TO DECEMBER 20, 1979



[redacted]

KEY PLAN
SCALE: 1 INCH = 804.672 METRES (40 CHS.)



LEGEND

BEARINGS ARE ASTRONOMIC DERIVED FROM THE WESTERLY LIMIT OF LOT 20, HAVING AN ASSUMED BEARING N20°52'W AS SHOWN ON A PLAN BY H.C. BISHOP O.L.S. DATED JULY 25, 1974 AND ATTACHED TO INST. 82112.

ALL HANGING LINES HAVE BEEN VERIFED

- S.A. DENOTES SPLIT ANGLE
- ■ I.B.Ø DENOTES 1.9cm DIA. ROUND IRON BAR (60cm LONG)
- □ SSIB DENOTES SHORT STANDARD IRON BAR (2.5cm. sq. BY 60cm LONG)
- ■ I.B. DENOTES 1.6cm SQ. IRON BAR (75 cm. LONG)
- ● R.P. DENOTES ROCK POST (1.6cm. HEX. BOLT)
- ○ I.T. DENOTES 1.9 cm. DIA. IRON TUBE
- FD. DENOTES FOUND
- (934) DENOTES H.C. BISHOP O.L.S.
- ○ H.P. DENOTES HYDRO POLE
- ■—■ DENOTES TRAVERSE LINES AND STATIONS

NOTE

1. THE ORIGINAL HIGH WATER MARK SHOWN HEREON IS THE BEST AVAILABLE EVIDENCE OF THE HIGH WATER MARK EXISTING AT THE TIME OF THE ORIGINAL SURVEY OF THE TOWNSHIP OF GUILFORD.
2. THE ORIGINAL SHORE WAS DETERMINED BY SOUNDINGS AT A DEPTH OF 2.9 METRES BELOW THE MAXIMUM CONTROLLED LEVEL OF REDSTONE LAKE
3. ALL SHORE TIES ARE PERPENDICULAR TO THE TRAVERSE LINE UNLESS INDICATED OTHERWISE
4. THE CONTROLLED MAXIMUM AND MINIMUM LEVEL OF THE LAKE WAS DETERMINED BY A CHART ISSUED BY PARKS CANADA AND OF RECORD IN THE OFFICES OF BISHOP AND WILSON LTD. WHICH INDICATES THE GAUGE READING AT THE DAM INLET UNDER MAXIMUM AND MINIMUM STORAGE CONDITIONS.

METRIC

MEASUREMENTS SHOWN ON THIS PLAN ARE IN METRES AND MAY BE CONVERTED TO FEET BY DIVIDING BY 0.3048

SURVEYOR'S CERTIFICATE

1. THIS PLAN WAS PREPARED FOR PARKS CANADA UNDER INSTRUCTIONS FROM THE SURVEYOR GENERAL OF CANADA DATED NOVEMBER 8, 1979.
2. THIS PLAN WAS COMPLETED DECEMBER 20, 1979

HALIBURTON, ONT.
DECEMBER 21, 1979

Paul Wilson
PAUL WILSON
ONTARIO LAND SURVEYOR

TSW-5036-G

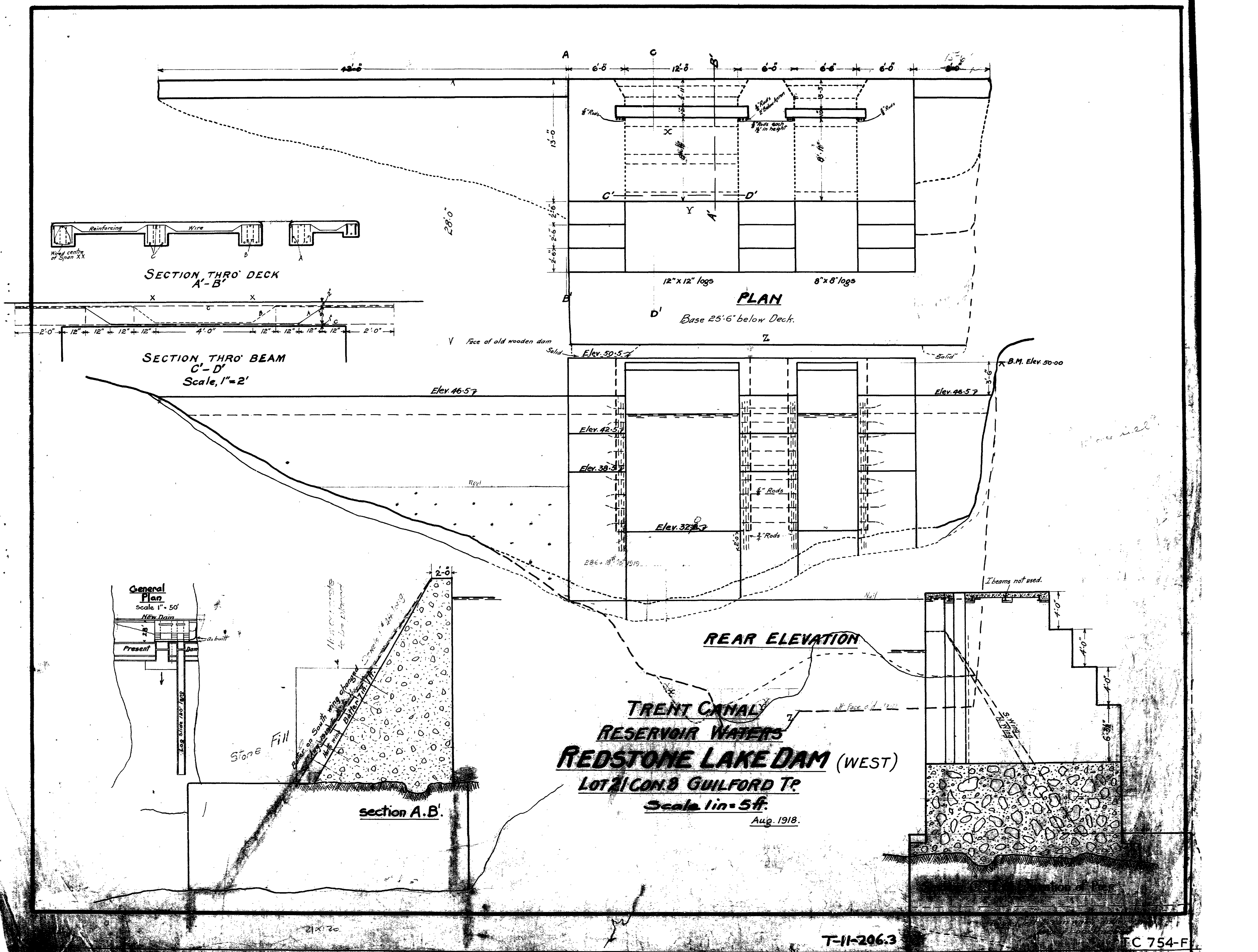
NOTE: 1 DENOTES PRESENT HIGH WATER MARK
2 DENOTES ORIGINAL SHORE

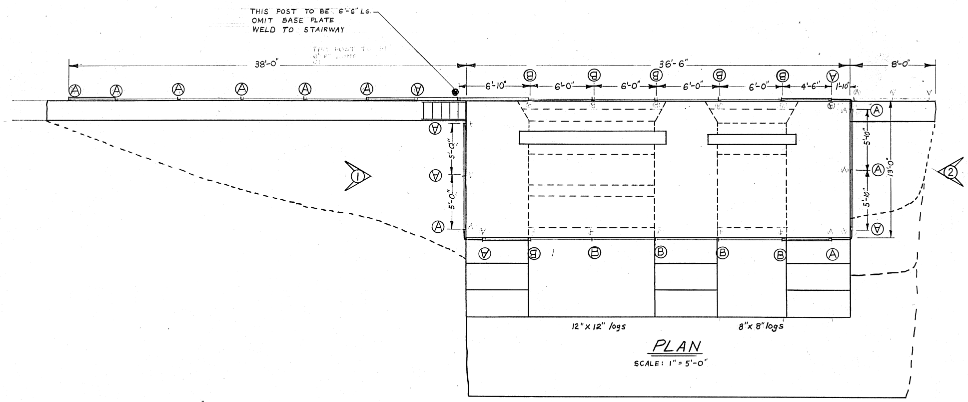
STADIA SCHEDULE

SCHEDULE OF MEASURED AZIMUTHS (FROM ASTRONOMIC NORTH) AND MEASURED DISTANCES (METRES) FROM POINTS Ⓐ & Ⓑ RESPECTIVELY TO VARIOUS POINTS BY STADIA METHODS

STATION	AZIMUTH	DISTANCE	REMARKS	STATION	AZIMUTH	DISTANCE	REMARKS
Ⓐ	182°28'	15.9	1 & 2	Ⓑ	170°13'	33.7	1 & 2
	151°00'	54.9	1 & 2		154°06'	33.4	1 & 2
	125°55'	64.6	1 & 2		100°45'	33.5	2
	118°47'	61.0	1 & 2		100°45'	34.5	1
	105°08'	61.0	1 & 2		79°22'	50.3	2
	92°14'	64.0	1 & 2		79°22'	59.7	1
	82°53'	72.3	1 & 2		74°44'	56.0	2
	76°44'	67.5	1 & 2		74°44'	62.5	1
	76°56'	45.7	1 & 2		70°25'	65.0	2
	73°28'	43.6	1 & 2		70°25'	79.0	1
	65°15'	48.8	1 & 2		65°45'	77.0	1
	57°21'	60.4	1 & 2		65°45'	82.1	2
					60°30'	114.0	2

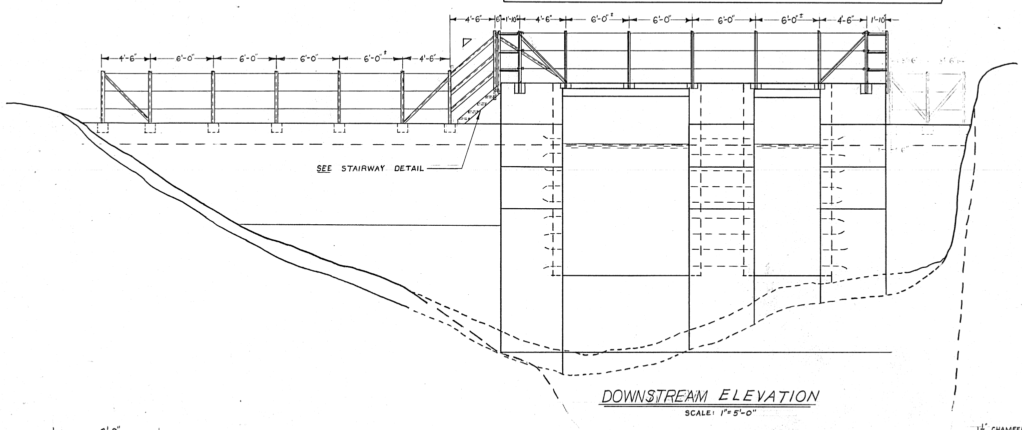
Item 5-79 P.C. ONT. K.G.H. OK


TRENT CANAL
RESERVOIR WATERS
REDSTONE LAKE DAM (WEST)
LOT 21 CON. 8 GUILFORD TP.
Scale 1 in. = 5 ft.
Aug. 1918.
PLAN
Base 25'-6" below Deck.
12" x 12" logs
8" x 8" logs
SECTION THRO' DECK A'-B'
Reinforcing Wire
Wired centre of Span XX
SECTION THRO' BEAM C'-D'
Scale, 1" = 2'
REAR ELEVATION
Face of old wooden dam
Elev. 50.5
B.M. Elev. 50.00
Elev. 46.5
Elev. 42.5
Elev. 38.5
Elev. 32.5
⅝" Rods
½" Rods
I beams not used.
General Plan
Scale 1" = 50'
New Dam
Present Dam
As built
Log Slide
Stone Fill
section A.B'.
T-11-296.3
TC 754-F



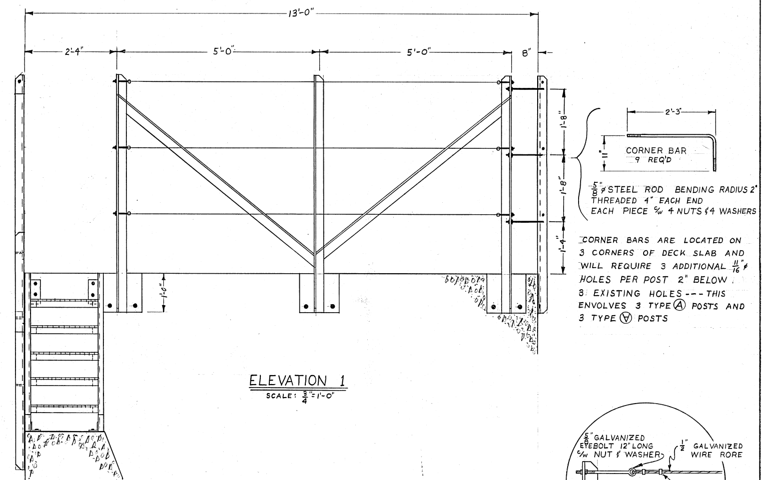
PLAN

SCALE: 1" = 5'-0"



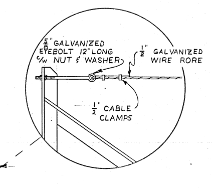
DOWNSTREAM ELEVATION

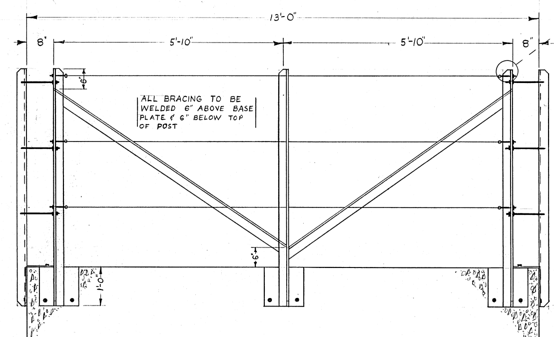
SCALE: 1" = 5'-0"



ELEVATION 1

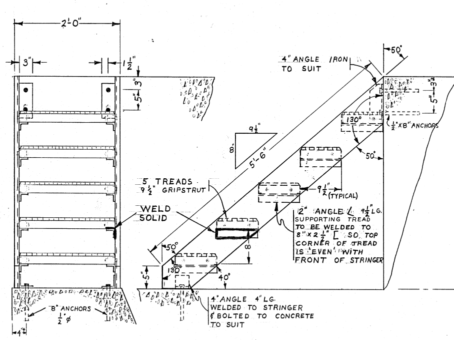
SCALE: 3/4" = 1'-0"





ELEVATION 2

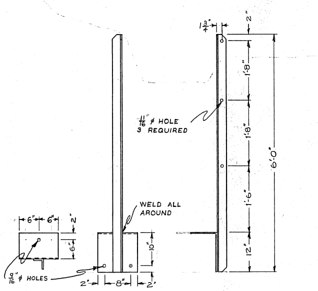
SCALE: 3/4" = 1'-0"



STAIRWAY DETAIL

SCALE: 1" = 1'-0"

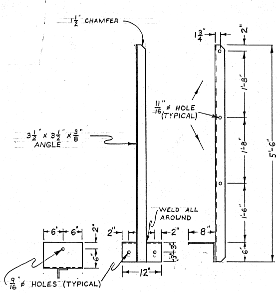
MAT'L —
- STRINGERS — 8" x 2 1/2" [12' REQ'D
- TREADS — 9 1/2" x 2 1/2" GRIPSTRUT 10' REQ'D
- TREAD SUPPORT — 2" L 9' REQUIRED
- 6 — 1/2" ϕ x 8" LG. ANCHOR BOLTS



POST DETAIL TYPE 'A'

SCALE: 3/4" = 1'-0"

NOTES: TEN (10) POSTS REQUIRED AS SHOWN (A) PLUS 1 SIMILAR 'STAIRWAY POST' 6'-6" LONG WITHOUT BASE PLATE & SIX (6) POSTS (OPPOSITE HAND TO SHOWN) (∀)



POST DETAIL TYPE 'B'

SCALE: 3/4" = 1'-0"

NOTES: FOUR (4) POSTS REQUIRED AS SHOWN (B) & FIVE (5) OPPOSITE HAND POSTS REQ'D (ᗺ)

ALL POSTS & BRACES ARE 3 1/2" x 3 1/2" x 3/8" ANGLE ∠
BASE PLATES MADE FROM 1/4" PLATE
POSTS TO BE MOUNTED WITH 1/2" ϕ x 6" LG. STAR ANCHOR
1 1/2" CHAMFER AT ALL CORNERS ON POSTS

MATERIAL LIST

DESCRIPTION	QUANTITY	
TYPE (A) POSTS	110	3 1/2" x 3 1/2" x 3/8" L POST & BRACES 260' REQ'D (10% EXTRA)
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TYPE (B) POSTS	4	
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1/2" CABLE CLAMPS	72	
1/2" GALVANIZED WIRE ROPE	425' FT	APPROX 10% EXTRA
CORNER BAR ○ 5/8" ϕ	9	

DATE	REVISIONS	BY	CH'CK'D

INDIAN AFFAIRS & NORTHERN DEVELOPMENT
NATIONAL & HISTORIC PARKS BRANCH – CANALS

AFFAIRES INDIENNES ET DU NORD CANADIEN
DIRECTION DES PARCS NATIONAUX ET DES LIEUX HISTORIQUES – CANAUX

TRENT CANAL SYSTEM

REDSTONE LAKE DAM

HANDRAILS

SCALE/ÉCHELLE AS SHOWN
DATE/DATE JULY 74
DESIGNED/ÉTABLI J.P.L.
DRAWN/TRACÉ J.P.L.
CHECKED/VÉRIFIÉ D.M.
SUPERINTENDING ENGINEER / SURINTENDANT

T.C. 4438-G

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Redstone Lake West Dam**	AMS Number :	**11400**
Comments / Description	Concrete Gravity		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Redstone Lake rd via Kennisis Lake rd - CR 7		
Topographic Map	031E02 (Haliburton)	Coordinates (dd/mm/ss)	N 45° 09' 39" W 78° 33' 20"
Drainage basin	Gull River		
Name of watercourse	Redstone River	Approximative elevation	≈ 364 m
Name of lake / reservoir	Redstone Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	8.763	m	Year of construction	1918	
Height of the reservoir	7	m	Year of rehabilitation	-	
Length of structure	27.9146	m	Drawings and/or specifications	Available	
Area of the reservoir	1422	ha			
Storage capacity	≈ 95M	m^3	Classification (PCA)	High A	
Catchment area	-	km^2	Overall condition	A	
			Category	Regulated Dam	

Main use(s)	Navigation		
Replacement cost	79500	*according to AMS Data dating from :*	1997
Deffered Maintenance	-		

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

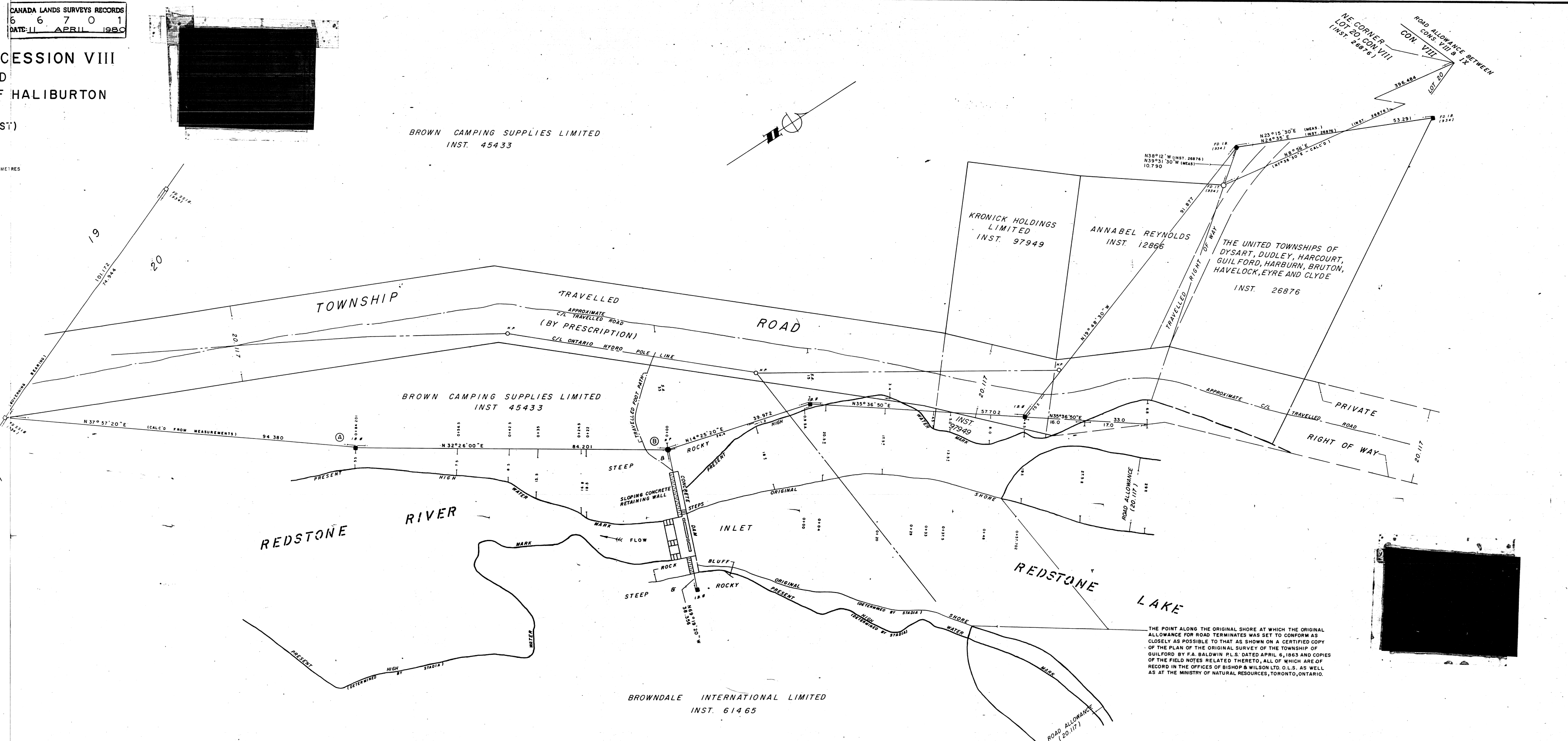
Last Engineering inspection by : - Date : - -

TOPOGRAPHICAL PLAN
OF SURVEY OF
PART OF LOT 20, CONCESSION VIII
TOWNSHIP OF GUILFORD
PROVISIONAL COUNTY OF HALIBURTON
PROVINCE OF ONTARIO
REDSTONE LAKE DAM SITE (WEST)

[redacted]

METRIC SCALE = 1:400

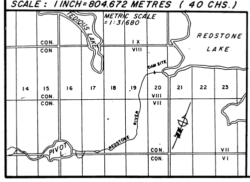
SURVEYED BY PAUL WILSON O.L.S.
NOVEMBER 12 TO DECEMBER 20, 1979



THE POINT ALONG THE ORIGINAL SHORE AT WHICH THE ORIGINAL ALLOWANCE FOR ROAD TERMINATES WAS SET TO CONFORM AS CLOSELY AS POSSIBLE TO THAT AS SHOWN ON A CERTIFIED COPY OF THE PLAN OF THE ORIGINAL SURVEY OF THE TOWNSHIP OF GUILFORD BY F.A. BALDWIN P.L.S. DATED APRIL 6, 1863 AND COPIES OF THE FIELD NOTES RELATED THERETO, ALL OF WHICH ARE OF RECORD IN THE OFFICES OF BISHOP & WILSON LTD. O.L.S. AS WELL AS AT THE MINISTRY OF NATURAL RESOURCES, TORONTO, ONTARIO.

[redacted]

KEY PLAN
SCALE: 1 INCH = 804.672 METRES (40 CHS.)



LEGEND

BEARINGS ARE ASTRONOMIC DERIVED FROM THE WESTERLY LIMIT OF LOT 20, HAVING AN ASSUMED BEARING N20°52'W AS SHOWN ON A PLAN BY H.C. BISHOP O.L.S. DATED JULY 25, 1974 AND ATTACHED TO INST. 82112.

ALL HANGING LINES HAVE BEEN VERIFED

- S.A. DENOTES SPLIT ANGLE
- ■ I.B.Ø DENOTES 1.9cm DIA. ROUND IRON BAR (60cm LONG)
- □ SSIB DENOTES SHORT STANDARD IRON BAR (2.5cm. sq. BY 60cm LONG)
- ■ I.B DENOTES 1.6cm SQ. IRON BAR (75 cm. LONG)
- ● R.P. DENOTES ROCK POST (1.6cm. HEX. BOLT)
- ○ I.T. DENOTES 1.9 cm. DIA. IRON TUBE
- FD. DENOTES FOUND
- (934) DENOTES H.C. BISHOP O.L.S.
- ○ H.P. DENOTES HYDRO POLE
- ■—■ DENOTES TRAVERSE LINES AND STATIONS

NOTE

1. THE ORIGINAL HIGH WATER MARK SHOWN HEREON IS THE BEST AVAILABLE EVIDENCE OF THE HIGH WATER MARK EXISTING AT THE TIME OF THE ORIGINAL SURVEY OF THE TOWNSHIP OF GUILFORD.
2. THE ORIGINAL SHORE WAS DETERMINED BY SOUNDINGS AT A DEPTH OF 2.9 METRES BELOW THE MAXIMUM CONTROLLED LEVEL OF REDSTONE LAKE
3. ALL SHORE TIES ARE PERPENDICULAR TO THE TRAVERSE LINE UNLESS INDICATED OTHERWISE
4. THE CONTROLLED MAXIMUM AND MINIMUM LEVEL OF THE LAKE WAS DETERMINED BY A CHART ISSUED BY PARKS CANADA AND OF RECORD IN THE OFFICES OF BISHOP AND WILSON LTD. WHICH INDICATES THE GAUGE READING AT THE DAM INLET UNDER MAXIMUM AND MINIMUM STORAGE CONDITIONS.

METRIC

MEASUREMENTS SHOWN ON THIS PLAN ARE IN METRES AND MAY BE CONVERTED TO FEET BY DIVIDING BY 0.3048

SURVEYOR'S CERTIFICATE

1. THIS PLAN WAS PREPARED FOR PARKS CANADA UNDER INSTRUCTIONS FROM THE SURVEYOR GENERAL OF CANADA DATED NOVEMBER 8, 1979.
2. THIS PLAN WAS COMPLETED DECEMBER 20, 1979

HALIBURTON, ONT.
DECEMBER 21, 1979

Paul Wilson
PAUL WILSON
ONTARIO LAND SURVEYOR

TSW-5036-G

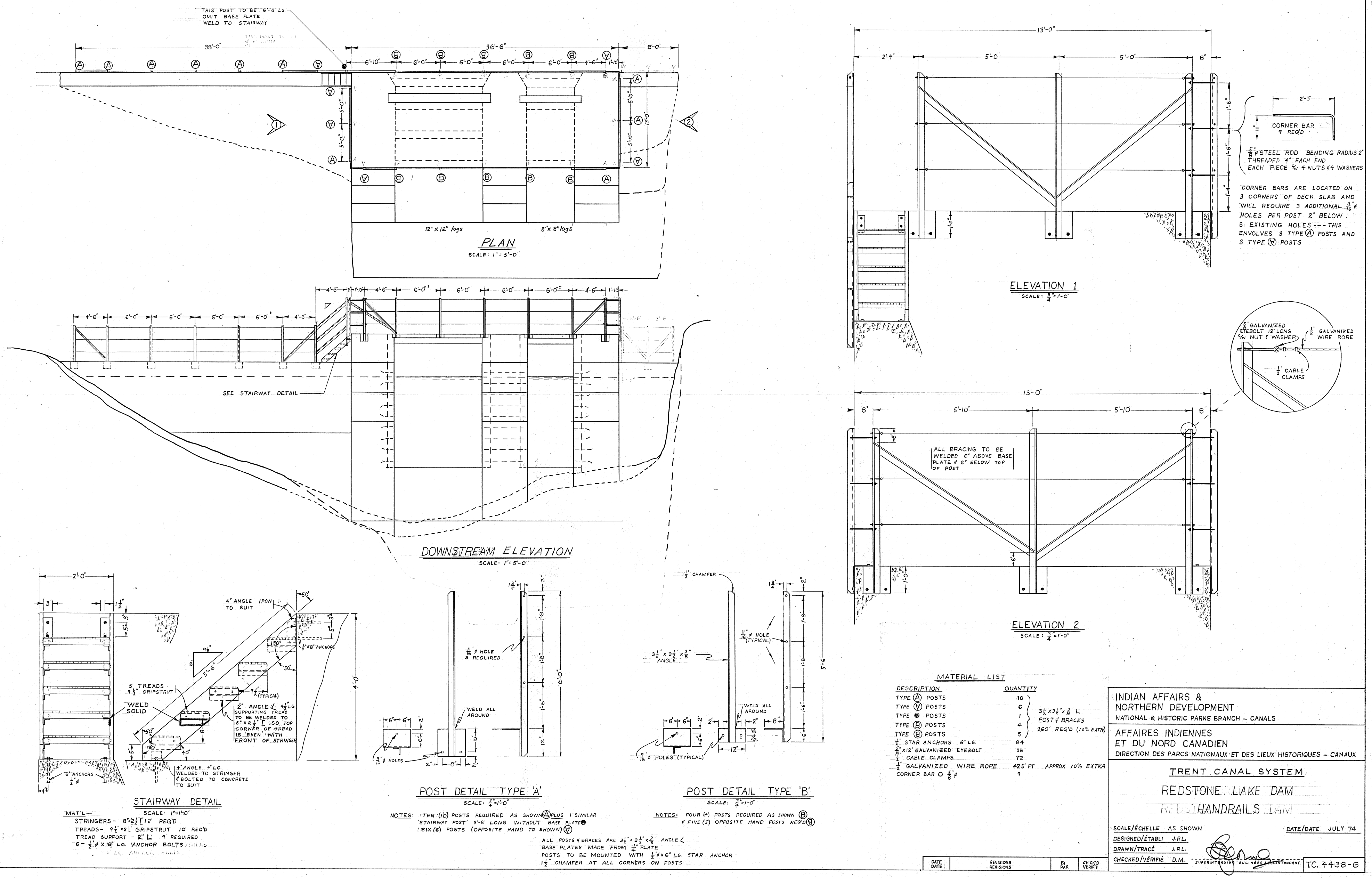
NOTE: 1 DENOTES PRESENT HIGH WATER MARK
2 DENOTES ORIGINAL SHORE

STADIA SCHEDULE

SCHEDULE OF MEASURED AZIMUTHS (FROM ASTRONOMIC NORTH) AND MEASURED DISTANCES (METRES) FROM POINTS (A) & (B) RESPECTIVELY TO VARIOUS POINTS BY STADIA METHODS

STATION	AZIMUTH	DISTANCE	REMARKS	STATION	AZIMUTH	DISTANCE	REMARKS
(A)	182°28'	15.9	1 & 2	(B)	170°13'	33.7	1 & 2
	151°00'	54.9	1 & 2		154°06'	33.4	1 & 2
	125°55'	64.6	1 & 2		100°45'	33.5	2
	118°47'	61.0	1 & 2		100°45'	34.5	1
	105°08'	61.0	1 & 2		79°22'	50.3	2
	92°14'	64.0	1 & 2		79°22'	59.7	1
	82°53'	72.3	1 & 2		74°44'	56.0	2
	76°44'	67.5	1 & 2		74°44'	62.5	1
	76°56'	45.7	1 & 2		70°25'	65.0	2
	73°28'	43.6	1 & 2		70°25'	79.0	1
	65°15'	48.8	1 & 2		65°45'	77.0	1
	57°21'	60.4	1 & 2		65°45'	82.1	2
					60°30'	114.0	2

Exm'd by J.D.E Dated 26/03/80 Item 5-79 P.C. ONT. K.G.H. OK



MATERIAL LIST

DESCRIPTION	QUANTITY	
TYPE (A) POSTS	110	3 1/2" x 3 1/2" x 3/8" L POST & BRACES 260' REQ'D (10% EXTRA)
TYPE (∀) POSTS	6	
TYPE ● POSTS	1	
TYPE (B) POSTS	4	
TYPE (B) POSTS	5	
1/2" STAR ANCHORS 6" LG.	84	
5/8" x 12" GALVANIZED EYEBOLT	36	
1/2" CABLE CLAMPS	72	
1/2" GALVANIZED WIRE ROPE	425' FT	APPROX 10% EXTRA
CORNER BAR O 5/8" ϕ	9	

INDIAN AFFAIRS & NORTHERN DEVELOPMENT
NATIONAL & HISTORIC PARKS BRANCH – CANALS

AFFAIRES INDIENNES ET DU NORD CANADIEN
DIRECTION DES PARCS NATIONAUX ET DES LIEUX HISTORIQUES – CANAUX

TRENT CANAL SYSTEM

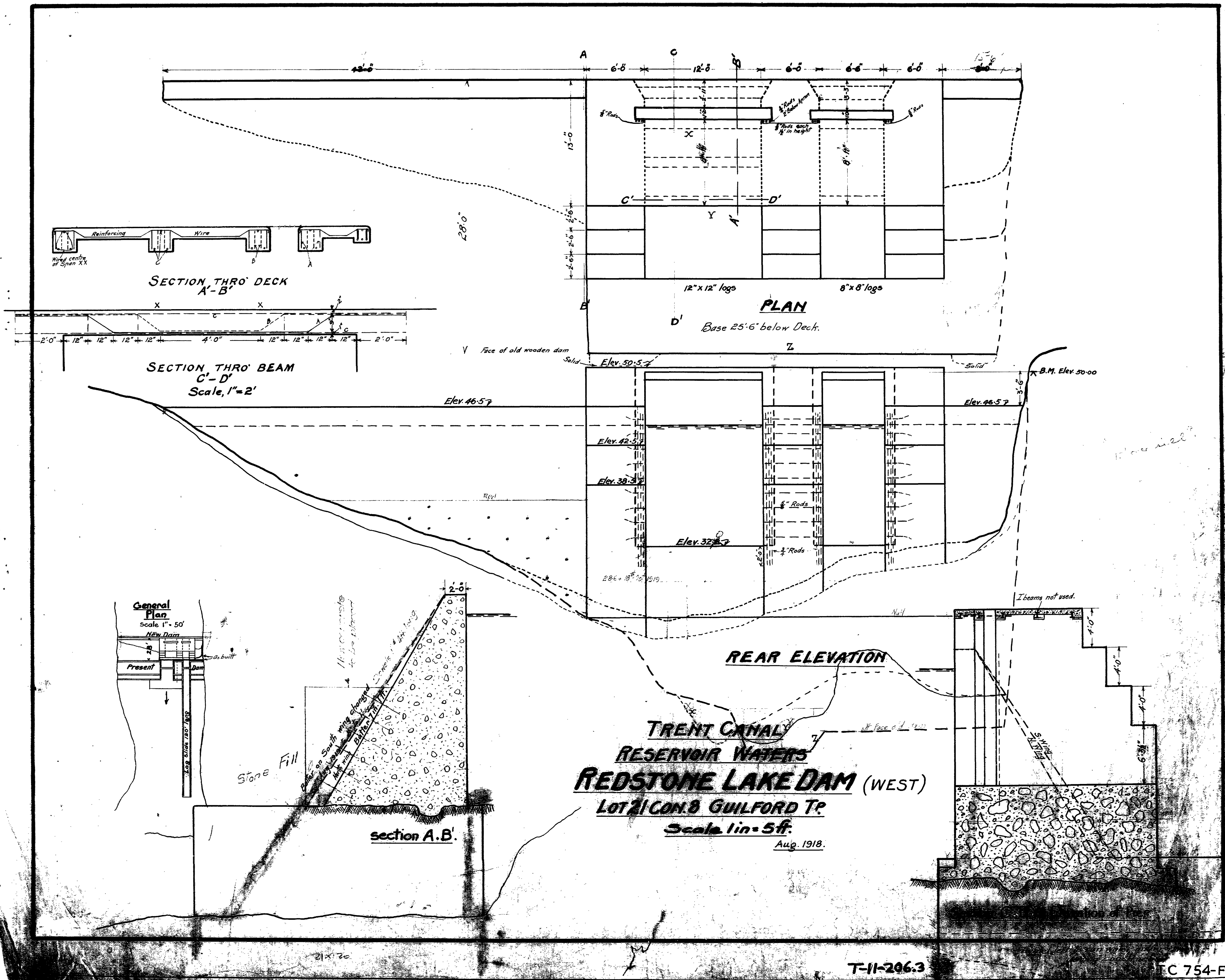
REDSTONE LAKE DAM

HANDRAILS

SCALE/ÉCHELLE AS SHOWN
DATE/DATE JULY 74
DESIGNED/ÉTABLI J.P.L.
DRAWN/TRACÉ J.P.L.
CHECKED/VÉRIFIÉ D.M.
SUPERINTENDING ENGINEER / SURINTENDANT

DATE DATE	REVISIONS REVISIONS	BY PAR	CH'CK'D VÉRIFIÉ

T.C. 4438-G



Section thro' deck A'-B'
Reinforcing Wire
Wired centre of Span XX
Section thro' beam C'-D'
Scale, 1" = 2'
Plan
Base 25'-6" below Deck.
12" x 12" logs
8" x 8" logs
Face of old wooden dam
Solid
Elev. 50.5
B.M. Elev. 50.00
Elev. 46.5
Elev. 42.5
Elev. 38.5
Elev. 32.5
Rods
Rear Elevation
General Plan
Scale 1" = 50'
New Dam
Present Dam
As built
Log Slide
Stone Fill
Section A.B'.
I beams not used.
Trent Canal
Reservoir Waters
Redstone Lake Dam (West)
Lot 21 Con. 8 Guilford Tp.
Scale 1 in. = 5 ft.
Aug. 1918.
T-11-296.3
TC 754-F

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Eagle Lake Dam (& Moose)**	AMS Number :	**11400**
Comments / Description	Concrete Gravity		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	CR 6 and CR 14 intersection		
Topographic Map	031E02 (Haliburton)	Coordinates (dd/mm/ss)	N 45° 07' 44"
			W 78° 30' 28"
Drainage basin	Gull River		
Name of watercourse	Gull River	Approximative elevation	≈ 342 m
Name of lake / reservoir	Eagle Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	4.27	m	Year of construction	1922
Height of the reservoir	3.20	m	Year of rehabilitation	-
Length of structure	14.63	m	Drawings and/or specifications	Available
Area of the reservoir	515	ha		
Storage capacity	≈ 15M	m^3	Classification (PCA)	Significant
Catchment area	-	km^2	Overall condition	C
			Category	Regulated Dam

Main use(s): Navigation

Replacement cost: 79500 *according to AMS Data dating from :* 1997

Deffered Maintenance: -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

Comments -

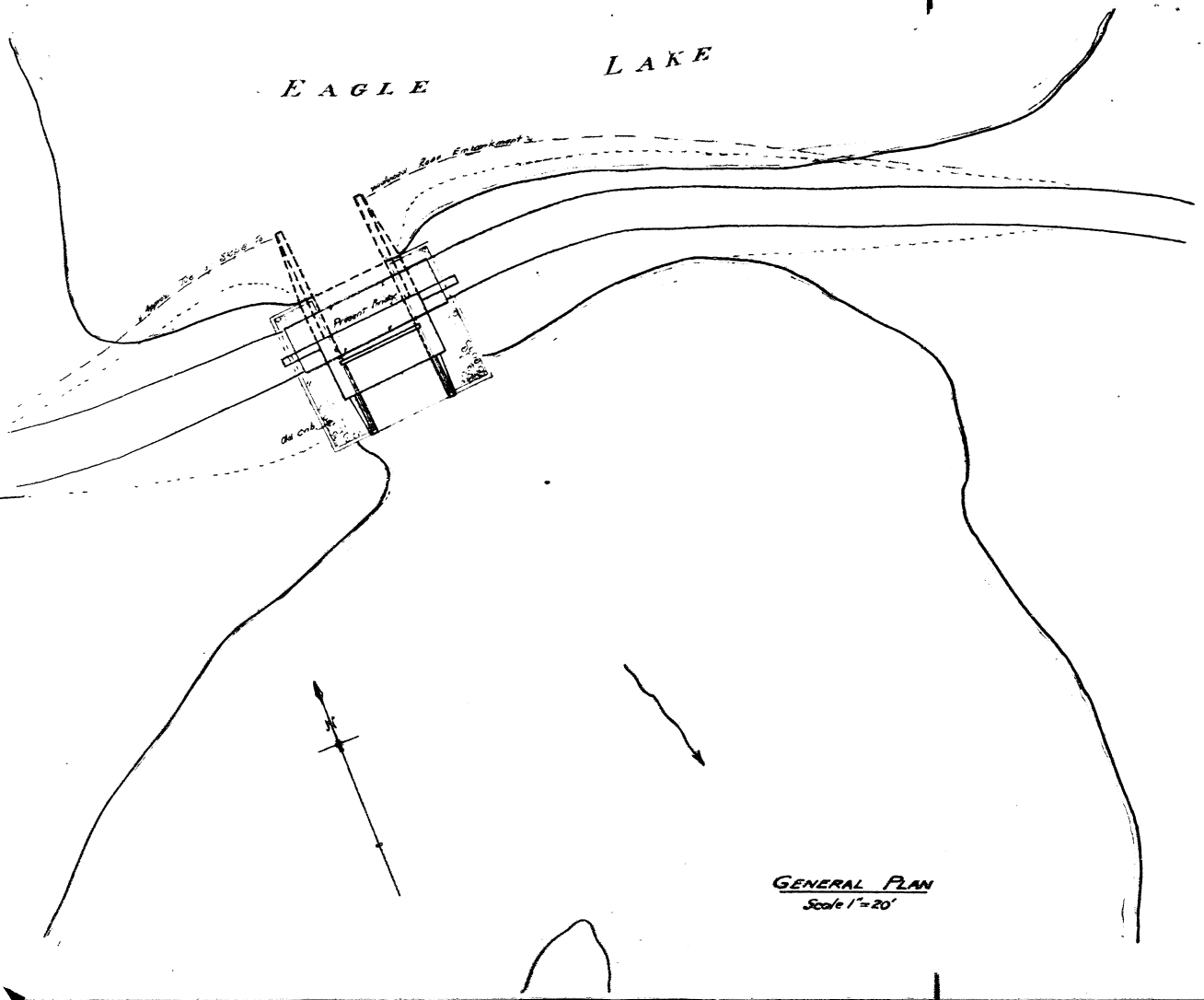
SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

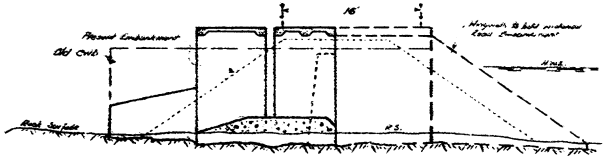
Comments -

Last Engineering inspection by : - Date : - -

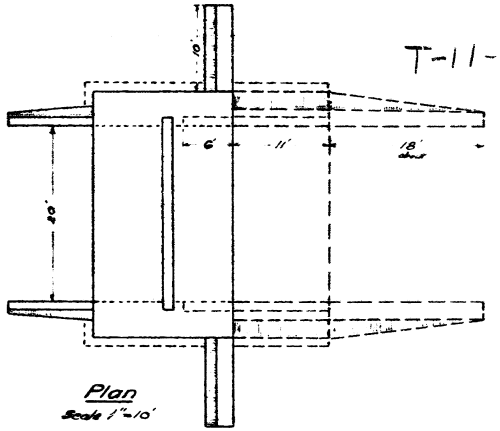
EAGLE LAKE



GENERAL PLAN
Scale 1"=20'



Sectional Elevation

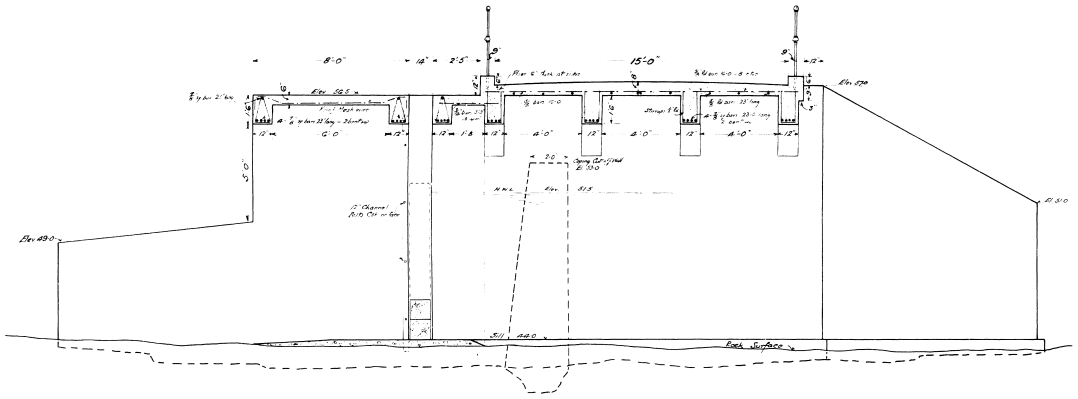


Plan
Scale 1"=10'

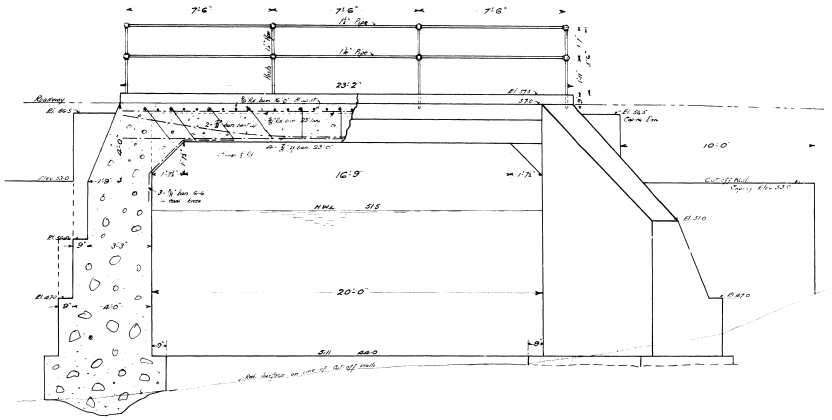
T-11-114.6

T-11-114.6
TRENT CANAL
RESERVOIR WATERS
PLAN SHEWING PROPOSED RECONSTRUCTION OF DAM
at
OUTLET OF EAGLE LAKE
Lot 25 Con. III Tp. of Guilford

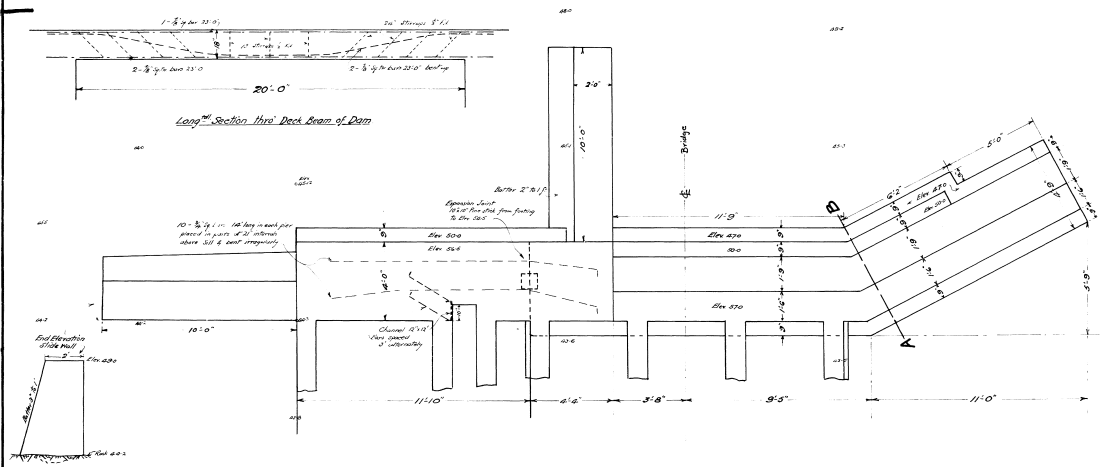
T-11-114.6
Superintendent's Office
Peterborough 3rd Feb 1922



SECTION THRO' FLOOR

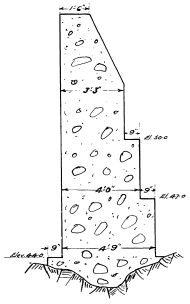


SECTIONAL ELEVATION



Long^nl Section thro' Deck Beam of Dam

PLAN OF PIER & ABUTMENT



SECTION AB

Bill of Reinforcing

No. of Bars	Size	Length	Position
31	⅝" sq. twist	23'-0	In Beams
70	¾" "	46'-0"	Piers
9	⅝" Rd.	23'-0"	Bridge Floor
30	⅝" "	46'-0"	" "
24	⅞" "	6'-6"	Bridge Beam Haunches
12	½" sq. twist	3'-0"	Deck before piers
Stirrups			
32-U-shape	½" Rd.	26"	@ Bridge beams
12- "	"	18"	@ " "
24 D shape	"	26"	3 Beam Beams
9 " "	"	18"	3 " "
Reinf. Mesh Wire	3 pieces	10' long x 7'-2" wide in Dam Deck Slab	

TRENT CANAL
RESERVOIR WATERS
DAM AND BRIDGE
AT
OUTLET OF EAGLE LAKE
LOT 25 CON III TP OF GUILFORD

Scale ⅜" = 1 Foot

D-5-4067

D-5-4067 14-20

T-11-312.1

Superintendent's Office
Peterborough 6th Sept 1922.

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Twelve Mile Lake Dam (Boshkung)**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Taylor Road		
Topographic Map	-	Coordinates (dd/mm/ss)	N 45° 00' 08"
			W 78° 42' 10"
Drainage basin	Gull River		
Name of watercourse	-	Approximative elevation	- m
Name of lake / reservoir	Twelve Mile Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive	Phone	(705) 750-4407
	Peterborough, Ontario, K9J 6Z6	Cellular	(705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	3.80	m	Year of construction	1930	
Height of the reservoir	-	m	Year of rehabilitation	-	
Length of structure	46.00	m	Drawings and/or specifications	-	
Area of the reservoir	1161	ha			
Storage capacity	-	m^3	Classification (PCA)	High A	
Catchment area	-	km^2	Overall condition	-	
			Category	-	

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

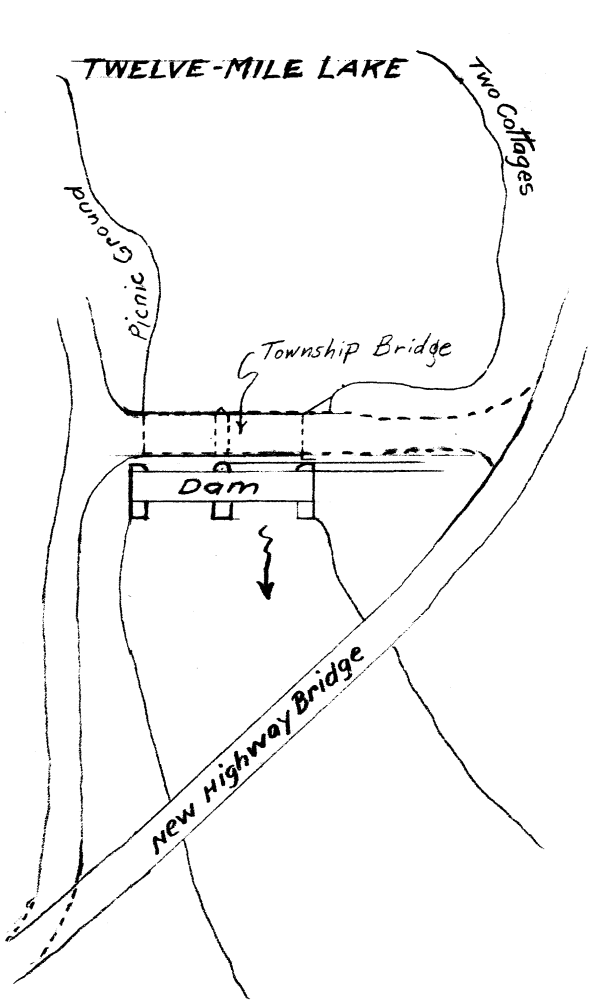
Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -



Dept. File No.

DEPARTMENT OF TRANSPORT
TRENT CANAL

TWELVE-MILE LAKE DAM

SKETCH PLAN SHOWING HIGHWAY CROSSING BELOW DAM

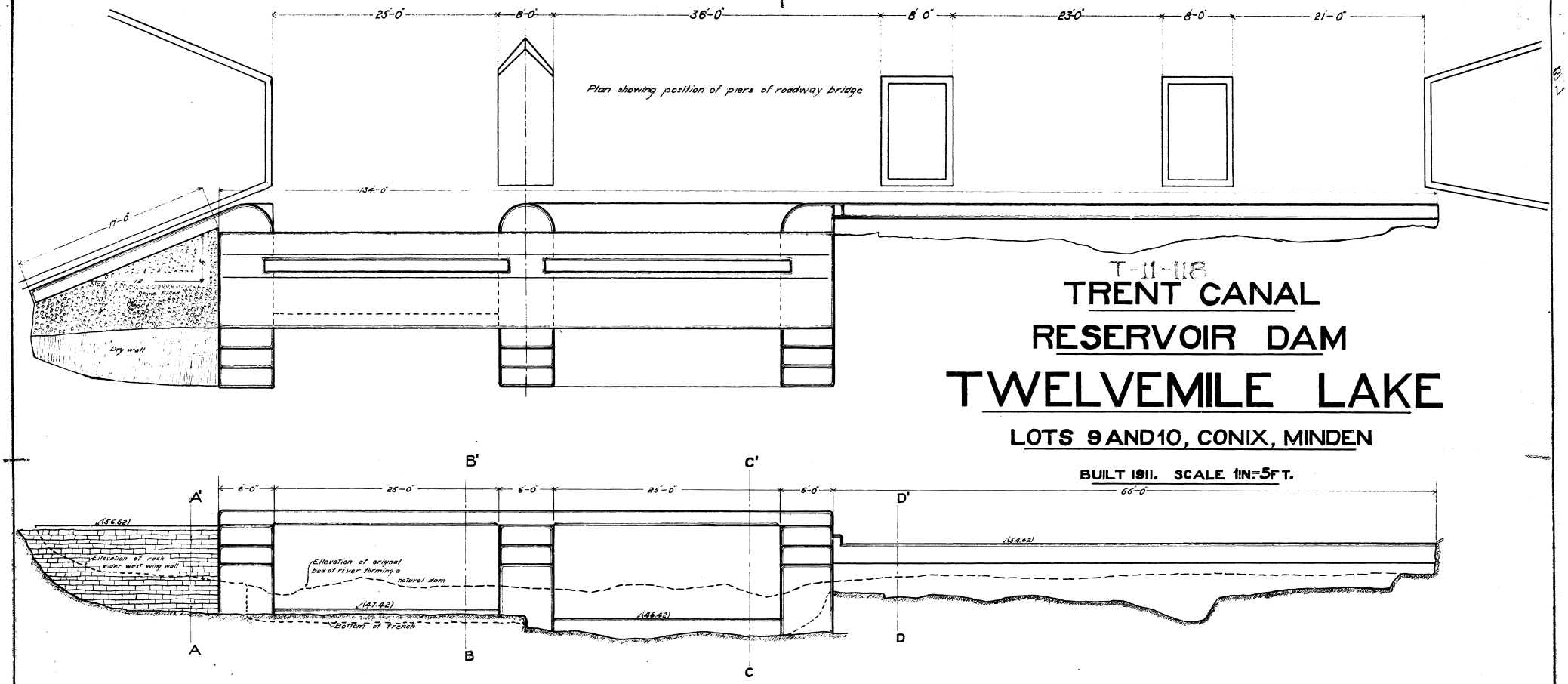
Scale :- 1" = 50'

T-22-[redacted]6

Superintending Engineer,
Peterborough Ont.

Aug. 8th 1939.

T.C.600-A



T-11-118

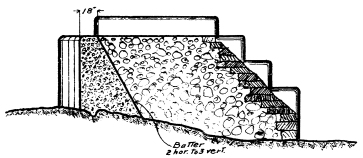
TRENT CANAL

RESERVOIR DAM

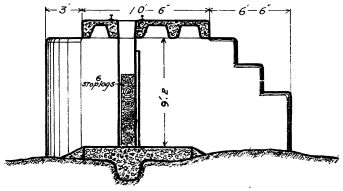
TWELVEMILE LAKE

LOTS 9 AND 10, CONIX, MINDEN

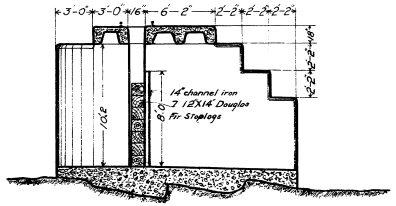
BUILT 1911. SCALE 1 IN. = 5 FT.



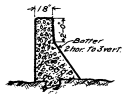
SECTION ON AA'



SECTION ON BB'

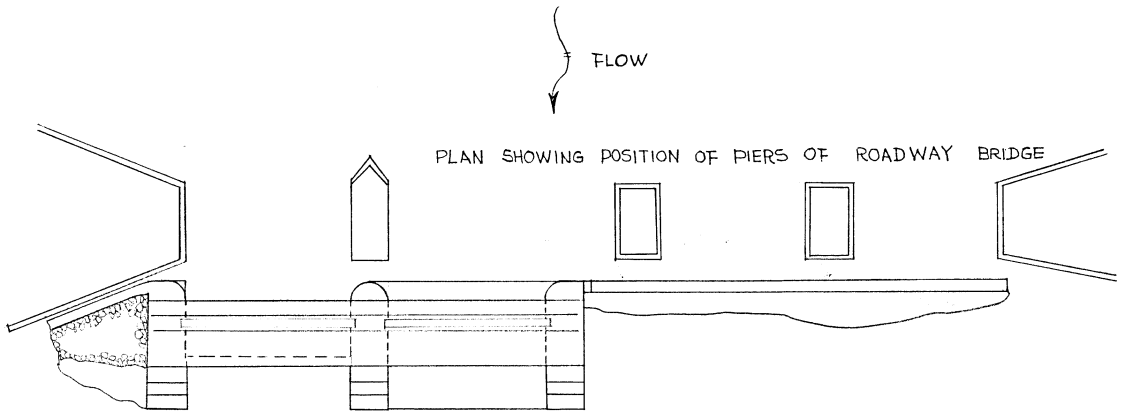


SECTION ON CC'



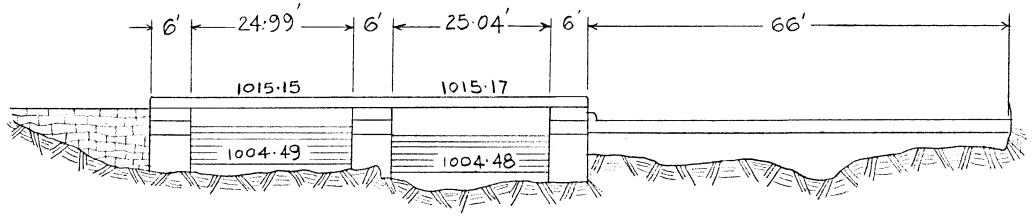
SECTION ON DD'

T-11-118

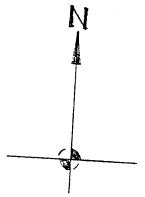


PLAN SHOWING POSITION OF PIERS OF ROADWAY BRIDGE

PLAN



DOWNSTREAM ELEVATION



B.M. 3185 ON TOP OF DECK S.E. CORNER ELEV. 1015.16

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
PARKS CANADA

TRENT CANAL SYSTEM

TWELVEMILE LAKE DAM
RESERVOIR

DATE: OCT. 174.
SCALE: 1" = 20'-0

MADE : D.C.
TRC'D :
CHK'D :
APR'D :

SUPERINTENDING ENGINEER

TC-4479-B

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Horseshoe Lake Dam, aka Elsie**	AMS Number :	**11400**
Comments / Description	Concrete Gravity Dam		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	CR 20 - Horseshoe Lake Rd and Bethel Rd intersection		
Topographic Map	031D15 (Minden)	Coordinates (dd/mm/ss)	N 44° 58' 04"
			W 78° 40' 59"
Drainage basin	Gull River		
Name of watercourse	Gull River	Approximative elevation	≈ 306 m
Name of lake / reservoir	Horseshoe Lake (& Mountain)		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	9.10	m	Year of construction	1909
Height of the reservoir	7.40	m	Year of rehabilitation	-
Length of structure	57.73	m	Drawings and/or specifications	Available
Area of the reservoir	556	ha		
Storage capacity	≈ 35M	m^3	Classification (PCA)	High A
Catchment area	-	km^2	Overall condition	C
			Category	Regulated Dam

Main use(s): Navigation Storage

Replacement cost: 79500 *according to AMS Data dating from :* 1997

Deffered Maintenance: -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

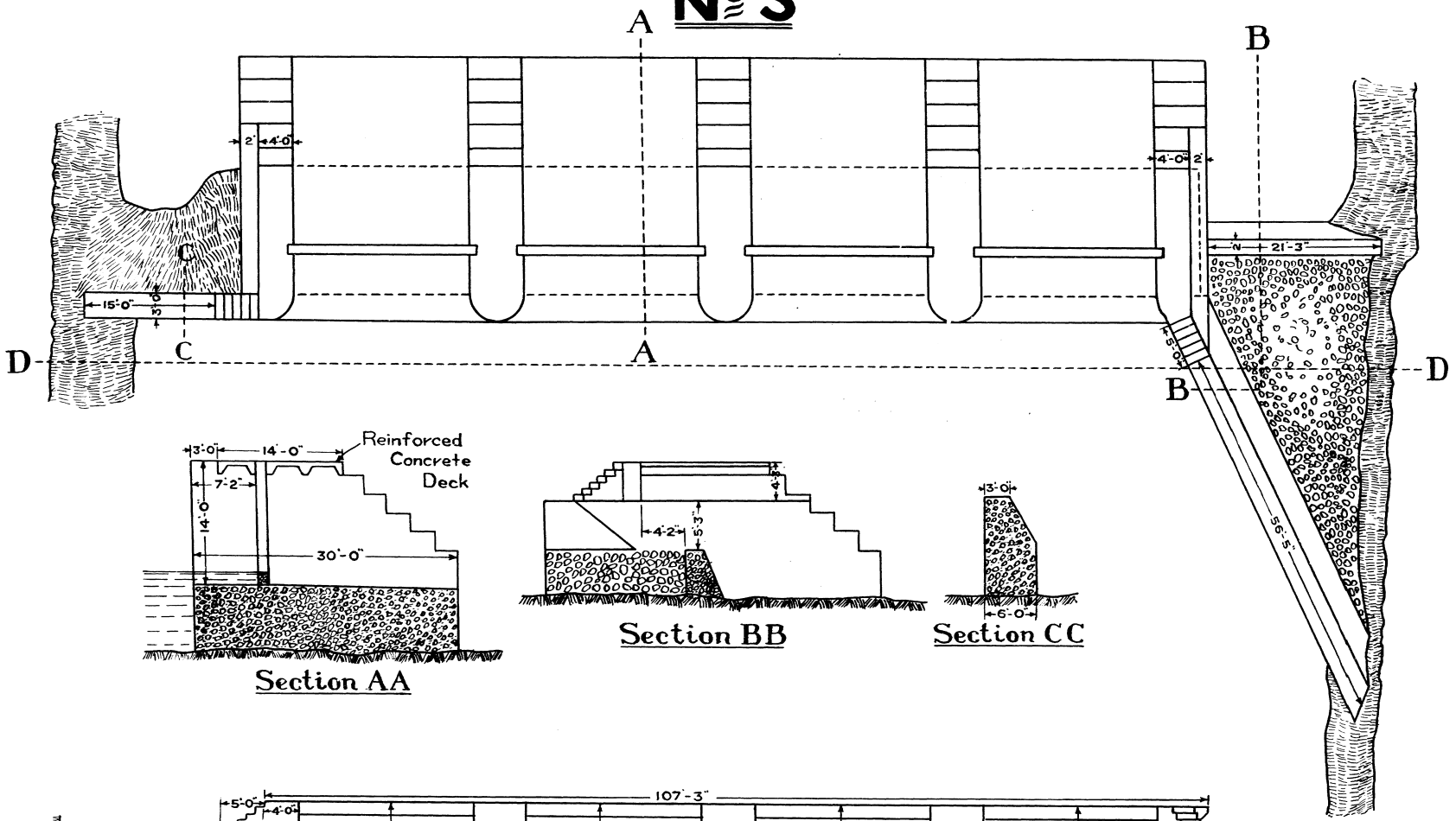
Last Engineering inspection by : - Date : - -

HORSESHOE LAKE DAM LOT 10 CON. V - MINDEN

Dominion Government

Scale – 10' = 1"

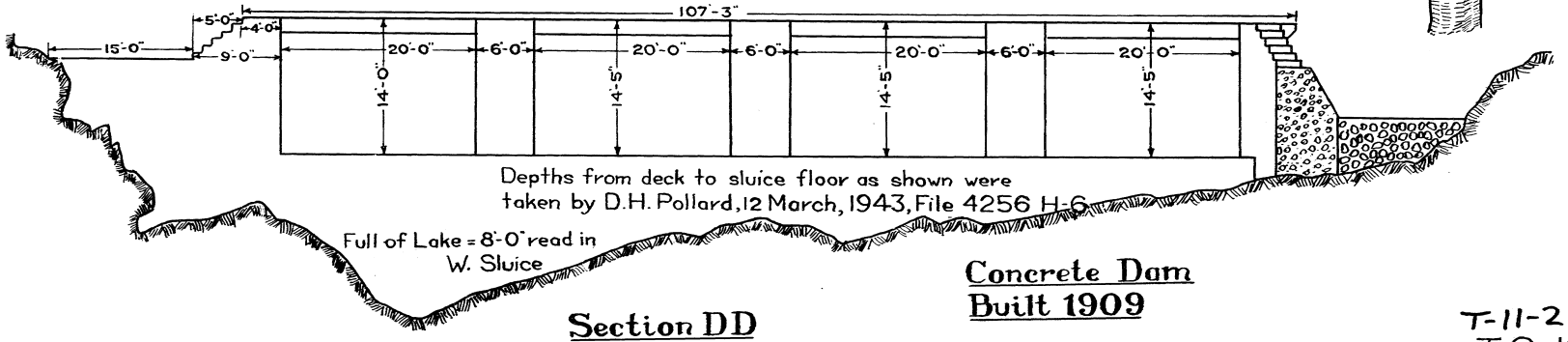
No 3



Section AA

Section BB

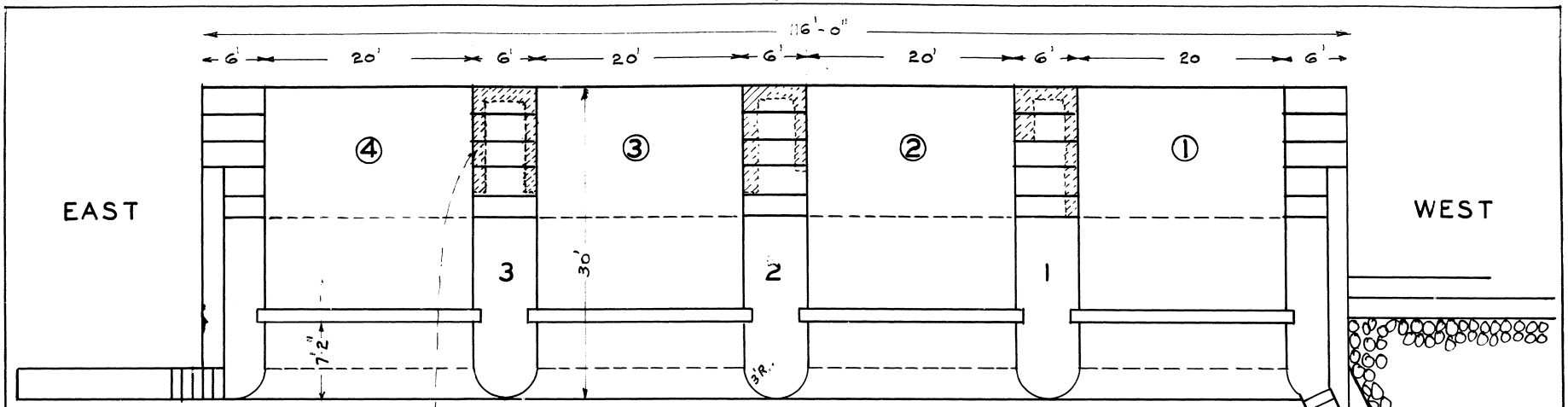
Section CC



Section DD

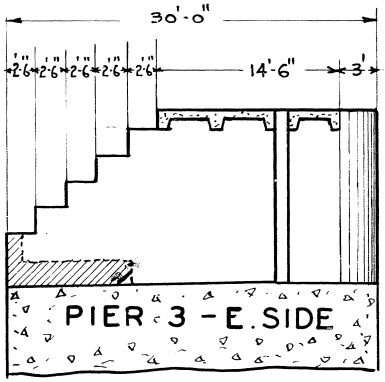
Concrete Dam
Built 1909

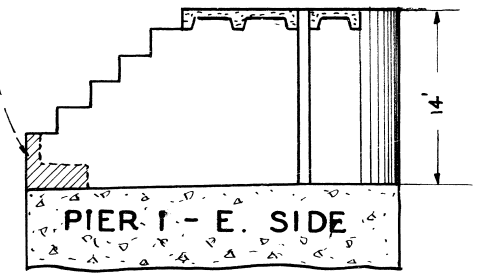
T-11-257.2
T.C. 1938-E

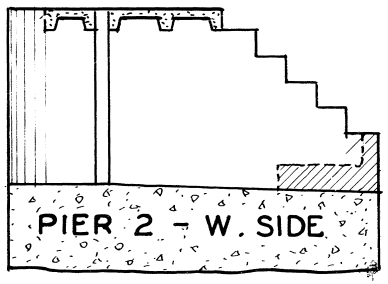


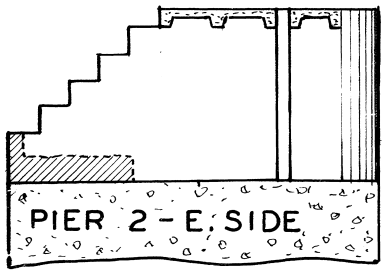
PLAN

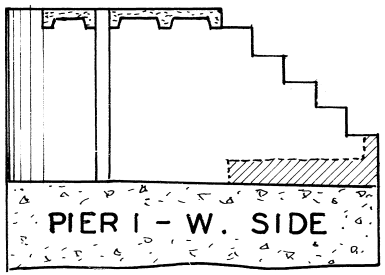
Approximate extent of finished Conrete repair shown hatched.

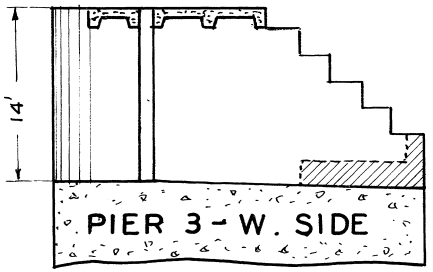


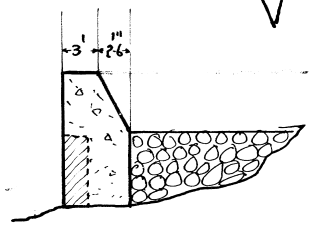












SECTION A-A

DEPARTMENT OF TRANSPORT

TRENT CANAL

HORSESHOE LAKE DAM

PLAN SHOWING PROPOSED

REPAIR OF DISINTEGRATED CONCRETE

Scale: 1" = 10'

T-11-257-1

Peterborough, Ont.,
July 27th, 1948

T.C. 1188-B

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Bob Lake Dam**	AMS Number :	**11400**
Comments / Description	Concrete Gravity Dam		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Bob Lake rd via CR 2		
Topographic Map	031D15 (Minden)	Coordinates (dd/mm/ss)	N 44° 53' 33"
			W 78° 47' 26"
Drainage basin	Gull River		
Name of watercourse	Bob Creek	Approximative elevation	≈ 299 m
Name of lake / reservoir	Bob Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	5.18	m	Year of construction	1931
Height of the reservoir	4.50	m	Year of rehabilitation	-
Length of structure	35.05	m	Drawings and/or specifications	Available
Area of the reservoir	226	ha		
Storage capacity	≈ 9M	m^3	Classification (PCA)	Significant
Catchment area	-	km^2	Overall condition	C
			Category	Regulated Dam

Main use(s)	Navigation		
Replacement cost	79500	*according to AMS Data dating from :*	1997
Deffered Maintenance	-		

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

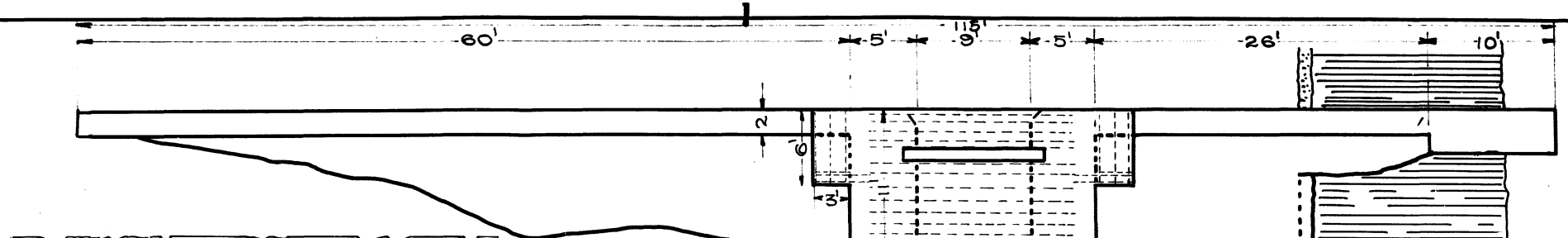
Comments -

SECTION X - REQUIRED DOCUMENTS

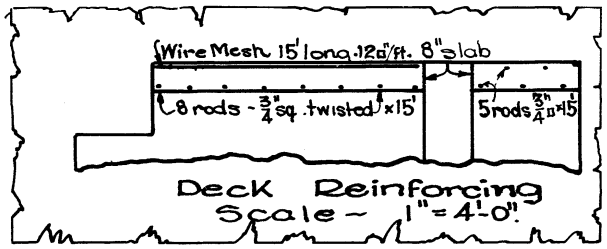
DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

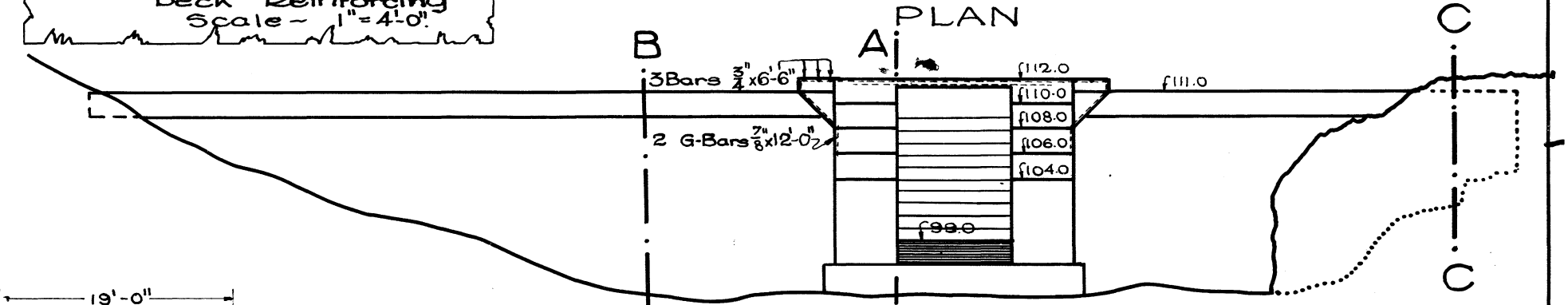
Last Engineering inspection by : - Date : - -



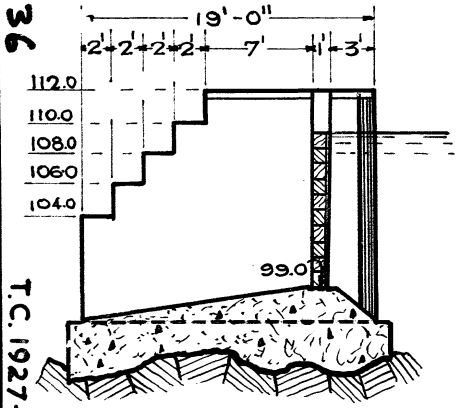
PLAN



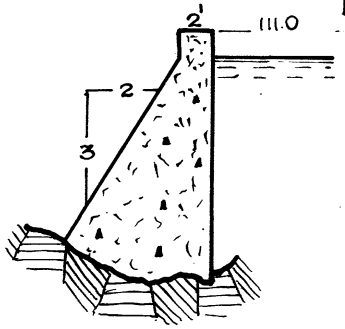
Deck Reinforcing
Scale ~ 1" = 4'-0"



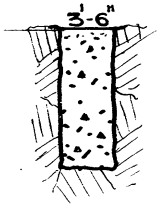
REAR ELEVATION.



Section A-A.



Section B-B.



Section C-C.

T.C. 1927

File ~ 19-6
Sill old dam ~ 100
Top old dam ~ 108 7/12
Concrete 367 yd.

TRENT CANAL

Plan showing

BIG BOB LAKE DAM

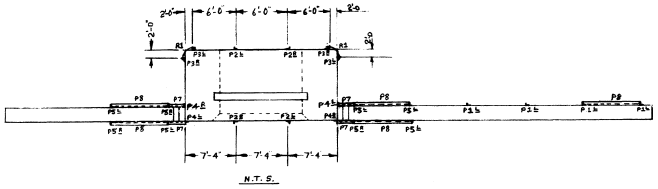
as constructed

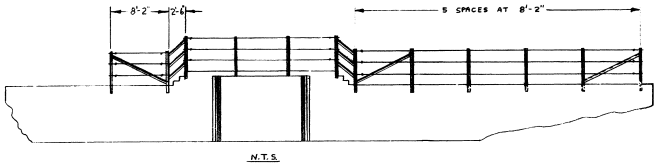
LOT 12 CONCESN XIV., TP. OF LUTTERWORTH.

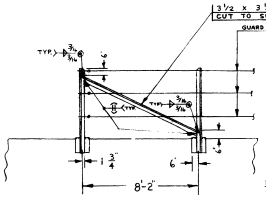
Scale ~ 1 in. = 10 ft. Peterboro' 2t Mar. '31.

T-11-236

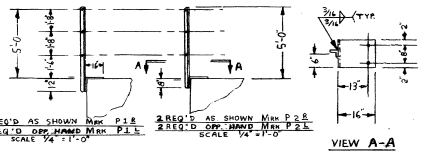
T.C. 1927-A







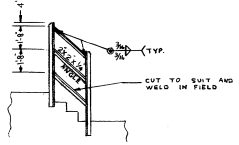
TYPICAL POSTS AND BRACING
SCALE 1/4" = 1'-0"



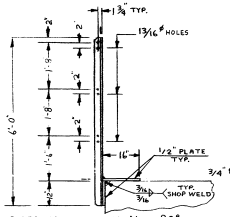
NONE REQ'D AS SHOWN MRK P1R
4 REQ'D OPP. HAND MRK P1L
SCALE 1/4" = 1'-0"

2 REQ'D AS SHOWN MRK P2R
2 REQ'D OPP. HAND MRK P2L
SCALE 1/4" = 1'-0"

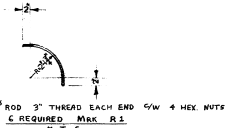
VIEW A-A
SCALE 1/2" = 1'-0"



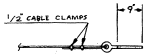
TYPICAL STAIRWAY BRACING
N.T.S.



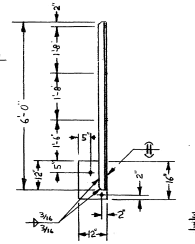
2 REQUIRED AS SHOWN MRK P3R
2 REQUIRED OPP. HAND MRK P3L
SCALE 1/2" = 1'-0"



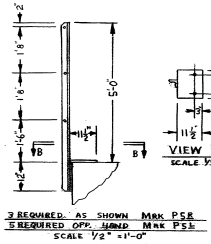
3/4" ϕ ROD 3" THREAD EACH END C/W 4 HEX. NUTS
6 REQUIRED MRK R1
N.T.S.



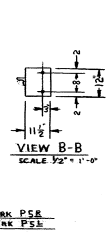
48 - 5/8" ϕ X 12" LONG EYEBOLTS C/W NUT & WASHER (GALVANIZED)
96 - 1/2" CABLE CLAMPS
N.T.S.



2 REQUIRED AS SHOWN MRK P4R
2 REQUIRED OPP. HAND MRK P4L
SCALE 1/2" = 1'-0"



3 REQUIRED AS SHOWN MRK P5R
3 REQUIRED OPP. HAND MRK P5L
SCALE 1/2" = 1'-0"



VIEW B-B
SCALE 1/2" = 1'-0"

DAM AT MISKWABI

PLAIN MATERIAL:

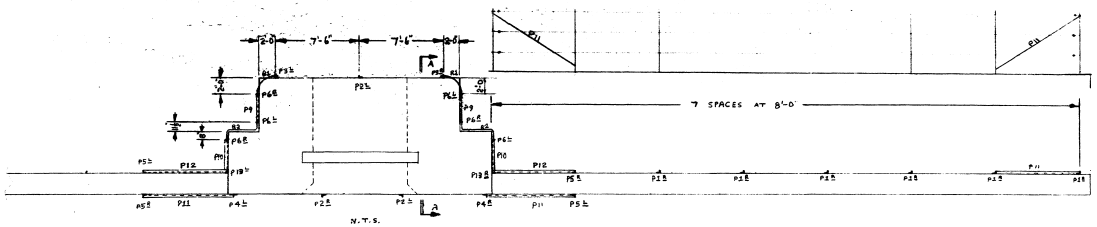
5 PIECES REQUIRED 3 1/2 X 3 1/2 X 3/8 L
9'-9" LONG MRK P8 (CUT TO SUIT IN FIELD)

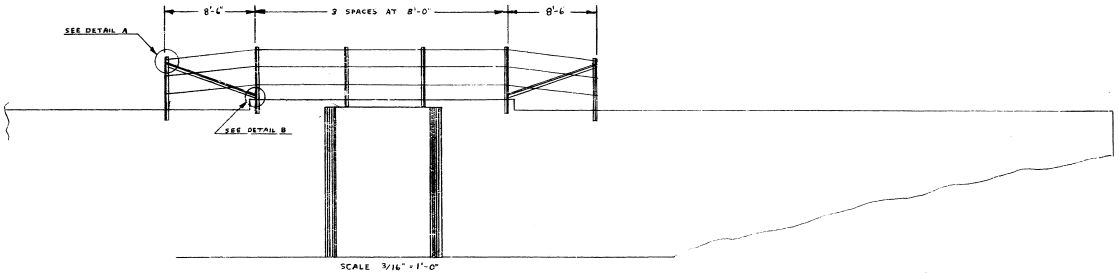
12 PIECES REQUIRED 2" X 2" X 1/4" L
3'-9" LONG MRK P7 (CUT TO SUIT IN FIELD)

420-LIN. FT. 1/2" ϕ 1 X 7 WIRE STRAND GUARD RAIL CABLE

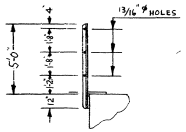
ALL HOLES 11/16" ϕ UNLESS OTHERWISE NOTED
ALL ANGLES 3 1/2" X 3 1/2" X 3/8" UNLESS OTHERWISE NOTED

PAINT - ONE SHOP COAT

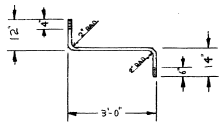




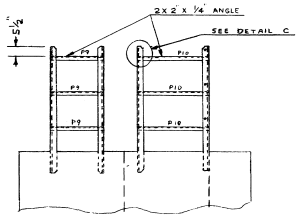
SCALE 3/16" = 1'-0"



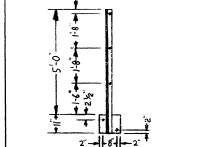
3 REQUIRED AS SHOWN MRK P6R
3 REQUIRED OPP. HAND MRK P6L
SCALE 1/4" = 1'-0"



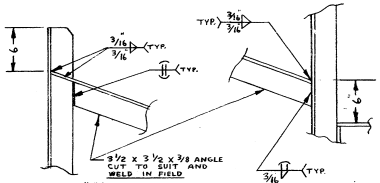
3/4" ϕ ROD 4" THREAD EACH END C/W 4 HEX. NUTS
6 REQUIRED MRK R2
N.T.S.



SECTION A-A
SCALE 3/8" = 1'-0"

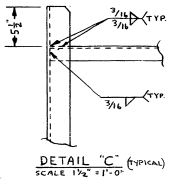


1 REQUIRED AS SHOWN MRK P13R
1 REQUIRED OPP. HAND MRK P13L
SCALE 3/8" = 1'-0"



DETAIL "A" (TYPICAL)
SCALE: 1 1/2" = 1'-0"

DETAIL "B" (TYPICAL)
SCALE 1 1/2" = 1'-0"



DETAIL "C" (TYPICAL)
SCALE 1 1/2" = 1'-0"

6	ANGLE	ASSEMBLIES	REQUIRED	AS SHOWN AND NOTED	MRK P1R
1	"	"	"	AS SHOWN " "	MRK P2R
2	"	"	"	OPP. HAND " "	MRK P2L
1	"	"	"	AS SHOWN " "	MRK P3R
1	"	"	"	OPP. HAND " "	MRK P3L
1	"	"	"	AS SHOWN " "	MRK P4R
1	"	"	"	OPP. HAND " "	MRK P4L
2	"	"	"	AS SHOWN " "	MRK P5R
2	"	"	"	OPP. HAND " "	MRK P5L

6 RODS REQUIRED AS SHOWN AND NOTED MRK R1
24 - 5/8" ϕ X 12" LONG EYEBOLTS C/W NUT & WASHER (GALVANIZED)
48 - 1/2" CABLE CLAMPS

DAM AT BIG BOB LAKE

PLAIN MATERIAL:

4 PIECES REQUIRED 2 X 2" X 1/4" L
2'6" LONG MRK P9 (CUT TO SUIT IN FIELD)

4 PIECES REQUIRED 2" X 2" X 1/4" L
3'-10" LONG MRK P10 (CUT TO SUIT IN FIELD)

3 PIECES REQUIRED 3 1/2" X 3 1/2" X 3/8" L
9'-8" LONG MRK P11 (CUT TO SUIT IN FIELD)

2 PIECES REQUIRED 3 1/2 X 3 1/2 X 3/8 L
9'-4" LONG MRK P12 (CUT TO SUIT IN FIELD)

415-LIN. FT. 1/2" ϕ 1 X 7 WIRE STRAND GUARD RAIL CABLE

ALL HOLES 11/16" ϕ UNLESS OTHERWISE NOTED
ALL ANGLES 3 1/2 X 3 1/2 X 3/8 UNLESS OTHERWISE NOTED
PAINT - ONE SHOP COAT

SHEET 1 OF 6

DEPARTMENT OF TRANSPORT
MARINE WORKS
CANALS DIVISION
TRENT CANAL SYSTEM

GUARD RAILS FOR:
DAM AT LONG (MISKWABI) LAKE &
DAM AT BIG BOB LAKE

SCALE: AS NOTED
DESIGN: J.F.P.
DRAWN: J.F.P.
CHECKED: C.J.S.
DATE: JAN. 31/69

SUPERINTENDING ENGINEER

T.C. 3731-G

DATE:	REVISIONS:	MADE:	CHK'D:

T-19-173.1

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Little Bob Lake Dam**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Rackety Trail		
Topographic Map	-	Coordinates (dd/mm/ss)	N 44° 51' 58"
			W 78° 46' 44"
Drainage basin	Gull River		
Name of watercourse	-	Approximative elevation	- m
Name of lake / reservoir	Little Bob Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	2.70	m	Year of construction	1930	
Height of the reservoir	-	m	Year of rehabilitation	-	
Length of structure	48.40	m	Drawings and/or specifications	-	
Area of the reservoir	73	ha			
Storage capacity	-	m^3	Classification (PCA)	Significant	
Catchment area	-	km^2	Overall condition	-	
			Category	-	

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

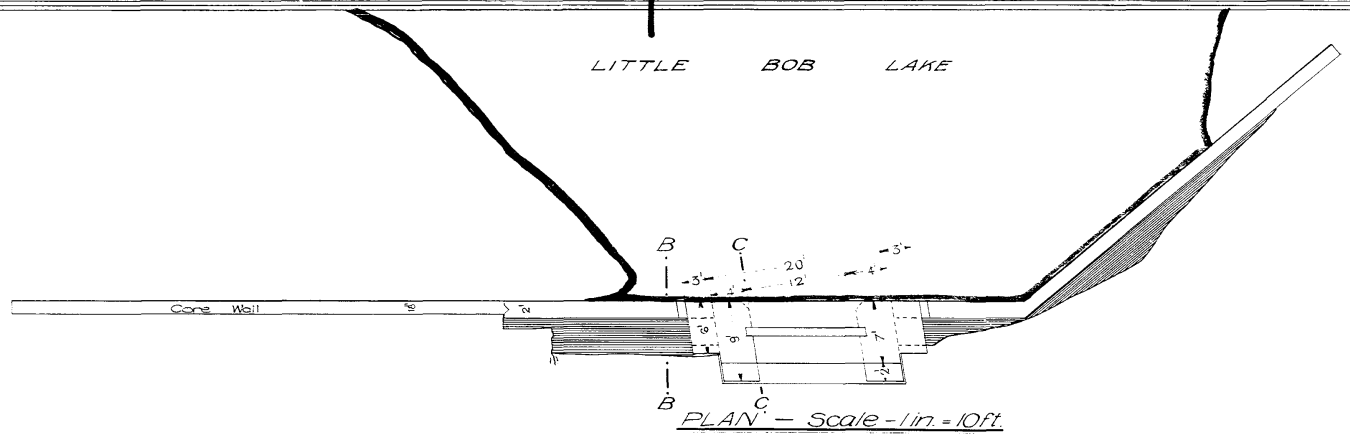
Comments -

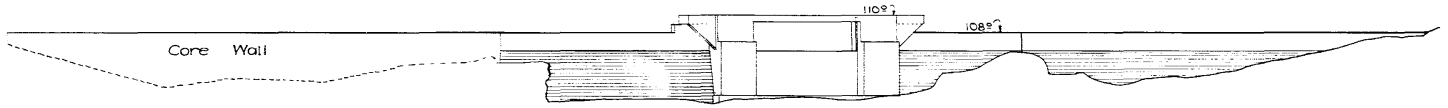
SECTION X - REQUIRED DOCUMENTS

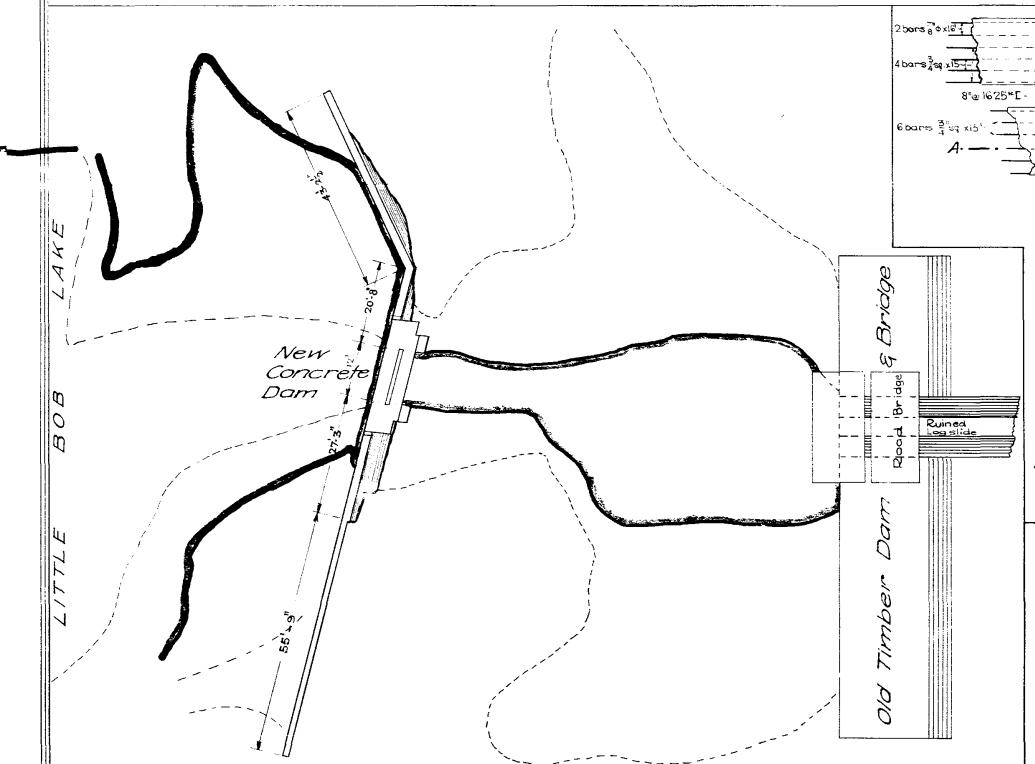
DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

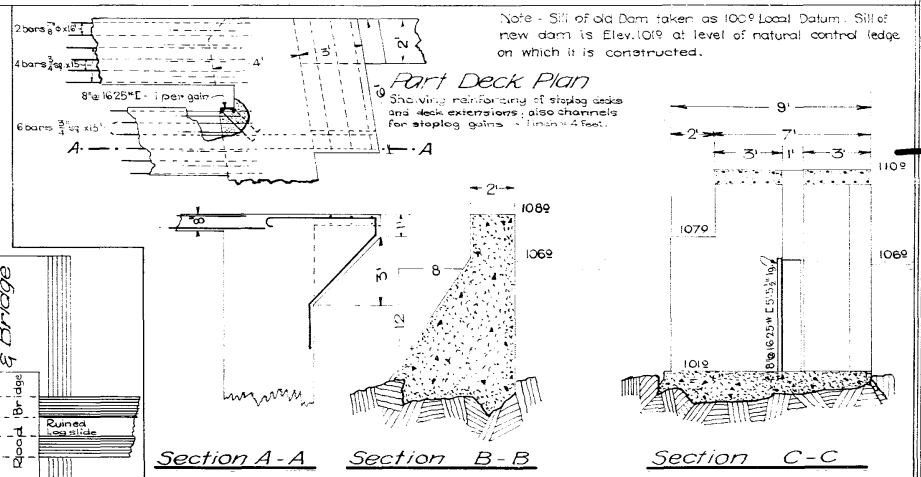
Comments -

Last Engineering inspection by : - Date : - -









TRENT CANAL

Plan of Little Bob Dam as constructed Scales as noted

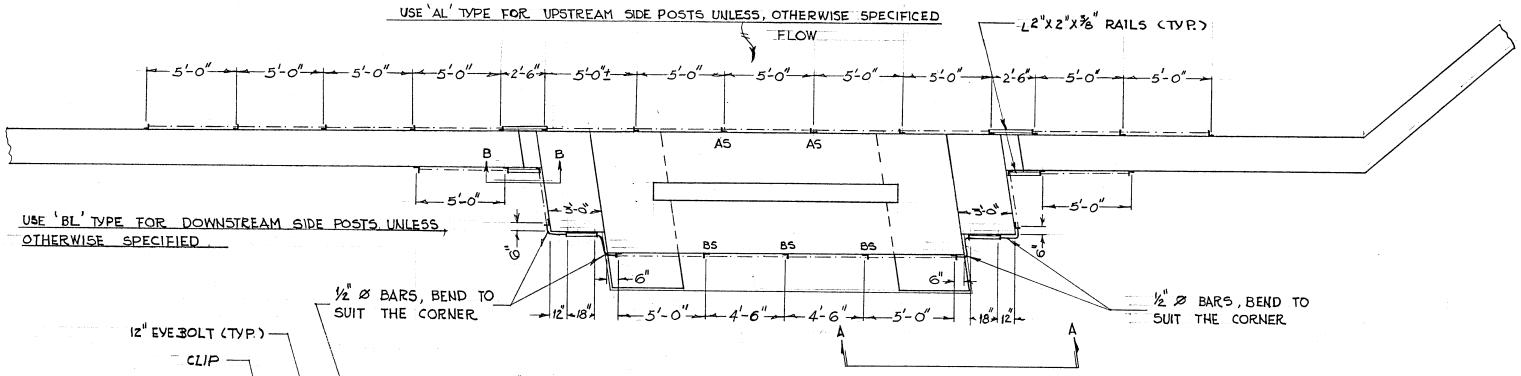
LOT 13, CON. XI, TP. OF LUTTERWORTH

Construction completed 6th Oct. 31

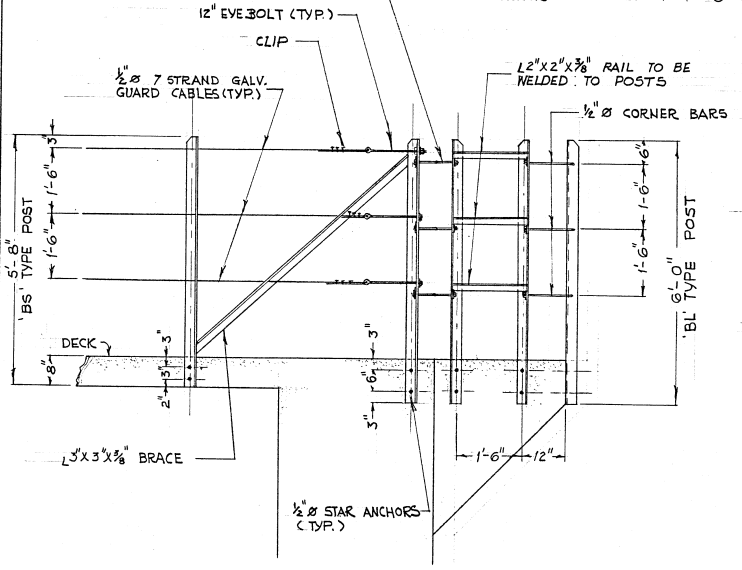
Peterboro' 6th April, 1932.

·T·C·-71·

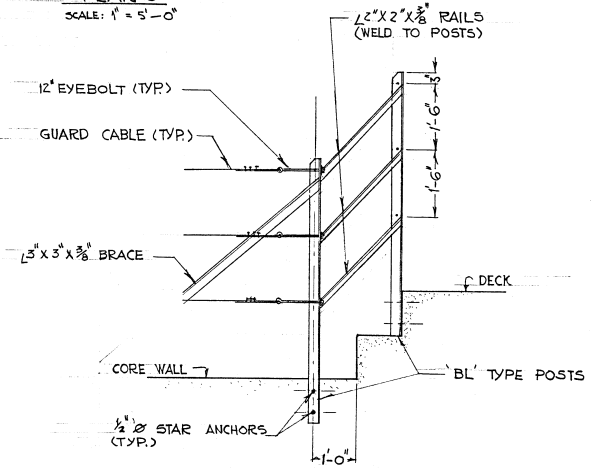
F-11-225-1 D-5-4088 R.



PLAN
SCALE: 1" = 5'-0"



VIEW A-A
SCALE: ½" = 1'-0"



VIEW B-B
SCALE: ½" = 1'-0"

NOTE:
1. TYPE 'AL', 'AS', 'BL' AND 'BS' POSTS, SEE DWG. T.S.W. 4605 C
2. DIAGONAL BRACE FOR ALL END CORNER POSTS
3. PAINT: ONE SHOP COAT - PRIMER

Indian and Northern Affairs / Affaires Indiennes et du Nord
Parks Canada / Parcs Canada

TRENT-SEVERN WATERWAY

TITLE: INSTALLATION GUARD RAIL - LITTLE BOB DAM

DRAWN BY: GAC
DESIGNED BY:
CHECKED BY:
RESPONSIBLE OFFICER:

SCALE: AS SHOWN
DATE: MAR./76

TSW 4612 C

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Gull Lake Dam #1, aka Moore's Falls**	AMS Number :	**11400**
Comments / Description	Concrete Gravity Dam		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	CR 2 and CR 35 intersection		
Topographic Map	031D15 (Minden)	Coordinates (dd/mm/ss)	N 44° 48' 22"
			W 78° 48' 11"
Drainage basin	Gull River		
Name of watercourse	Gull River	Approximative elevation	≈ 272 m
Name of lake / reservoir	Gull Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	4.57	m	Year of construction	1930
Height of the reservoir	4.00	m	Year of rehabilitation	-
Length of structure	30.18	m	Drawings and/or specifications	Available
Area of the reservoir	998	ha		
Storage capacity	≈ 35M	m^3	Classification (PCA)	High A
Catchment area	-	km^2	Overall condition	C
			Category	Regulated Dam

Main use(s): Navigation Storage

Replacement cost: 79500 *according to AMS Data dating from :* 1997

Deffered Maintenance: -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

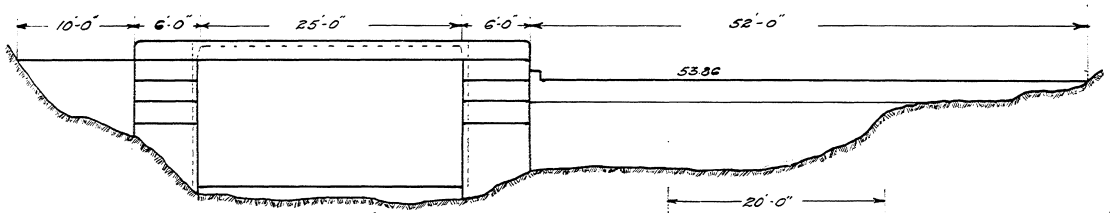
Last Engineering inspection by : - Date : - -

TRENT CANAL

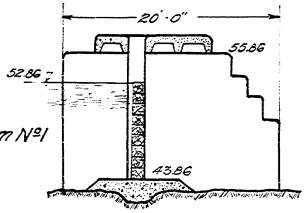
MOORES FALLS DAM

LOT 24 CON VI. LUTTERWORTH

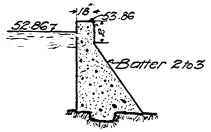
Scale—1in.= 16ft.



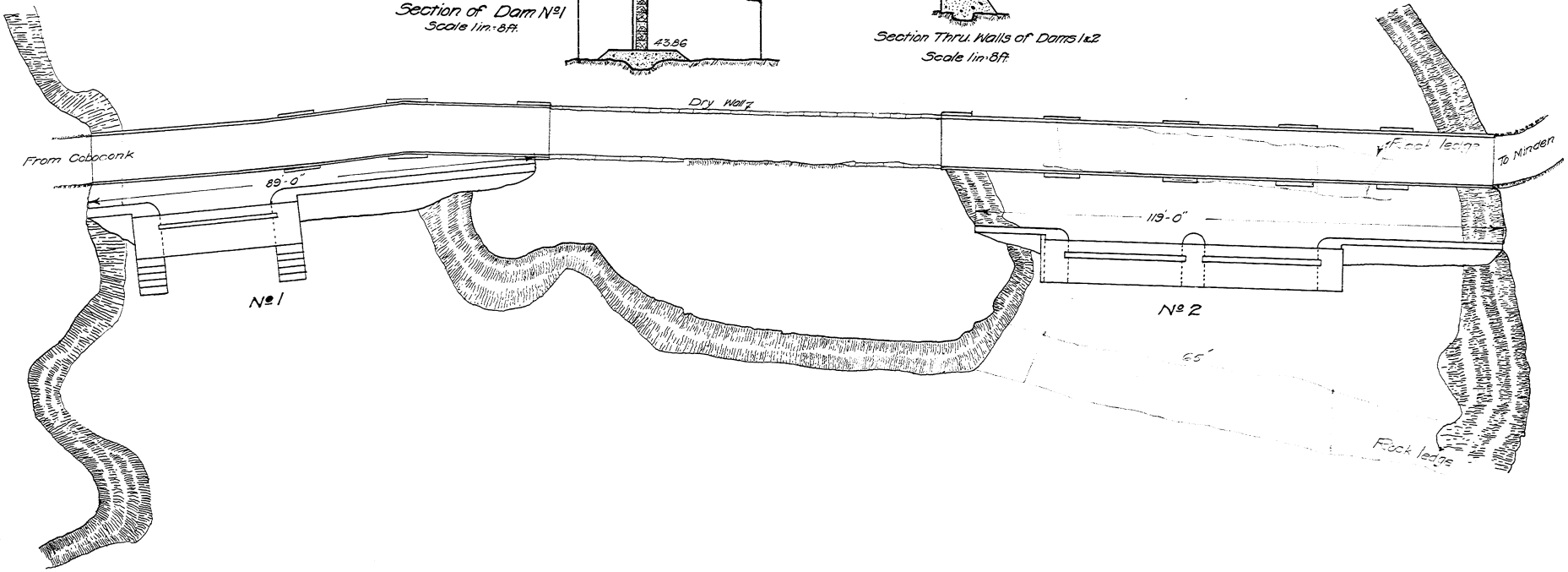
Downstream Elevation Dam No1
Scale 1in.=8ft.

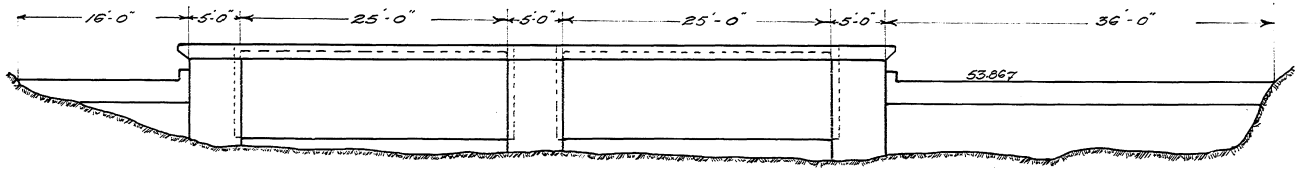


Section of Dam No1
Scale 1in.=8ft.

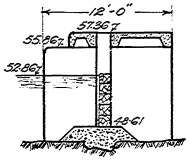


Section Thru. Walls of Dams 1&2
Scale 1in.=8ft.





Downstream Elevation of Dam No2
Scale 1in.=8ft.



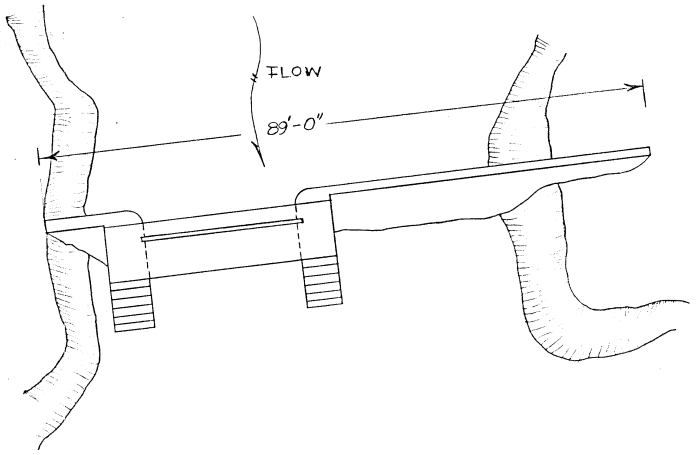
Section of Dam No2
Scale 1in.=8ft.

D-5-4062
T-11-310.1

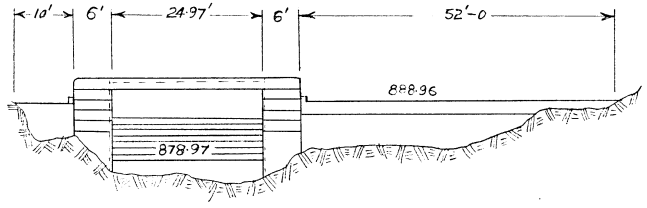
14-5

Note:- This plan is traced from an old blue-print on file in this office.

Peterborough, October 7th 1930.

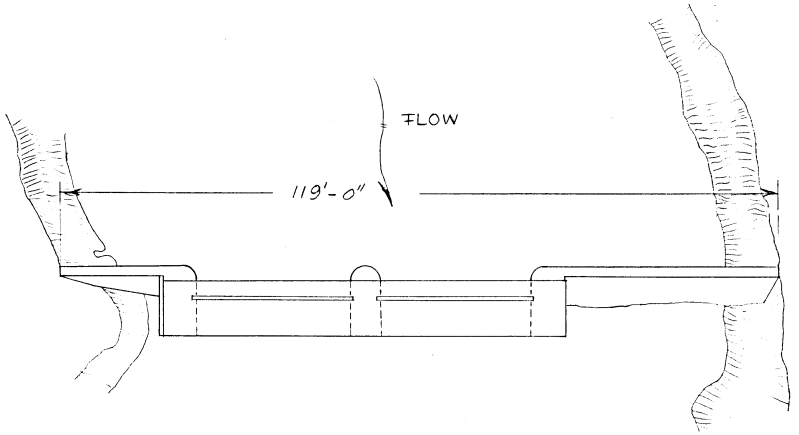


DAM Nº 1 PLAN

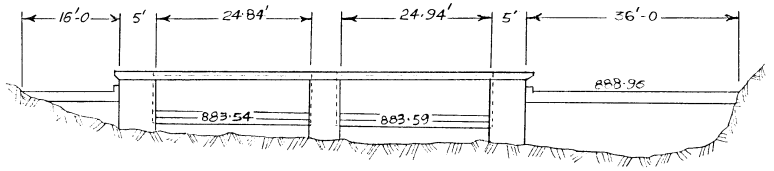


DAM Nº 1 DOWNSTREAM ELEVATION

N



DAM Nº 2 PLAN



DAM Nº 2 DOWNSTREAM ELEVATION

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
PARKS CANADA
TRENT CANAL SYSTEM

MOORES FALLS DAM

DATE : AUG/74
SCALE: 1" = 20'-0

MADE :
TRC'D : DC
CHK'D :
APP'D :

SUPERINTENDING ENGINEER

TC-4448 B

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Gull Lake Dam #2 (@ Moore Falls)**	AMS Number :	**11400**
Comments / Description	Concrete Gravity Dam		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	CR 2 and CR 35 intersection		
Topographic Map	031D15 (Minden)	Coordinates (dd/mm/ss)	N 44° 48' 20"
			W 78° 48' 11"
Drainage basin	Gull River		
Name of watercourse	Gull River	Approximative elevation	≈ 272 m
Name of lake / reservoir	Gull Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	3.28	m	Year of construction	1930
Height of the reservoir	2.70	m	Year of rehabilitation	-
Length of structure	35.66	m	Drawings and/or specifications	Available
Area of the reservoir	998	ha		
Storage capacity	≈ 25M	m^3	Classification (PCA)	High A
Catchment area	-	km^2	Overall condition	B
			Category	Regulated Dam

Main use(s): Navigation

Replacement cost: 79500 *according to AMS Data dating from :* 1997

Deffered Maintenance: -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

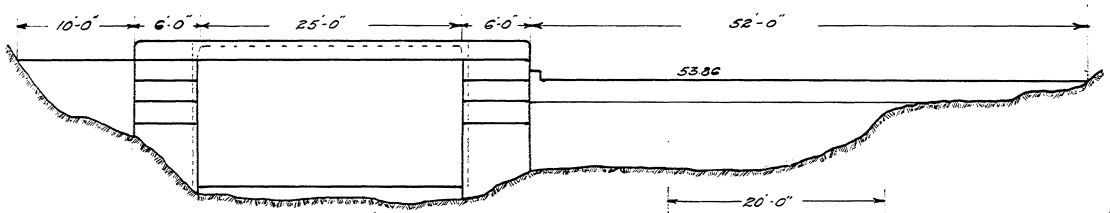
Last Engineering inspection by : - Date : - -

TRENT CANAL

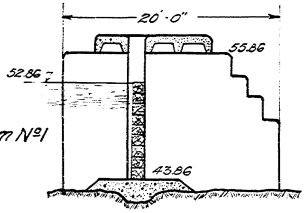
MOORES FALLS DAM

LOT 24 CON VI. LUTTERWORTH

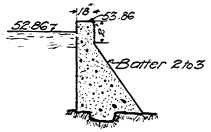
Scale—1in.= 16ft.



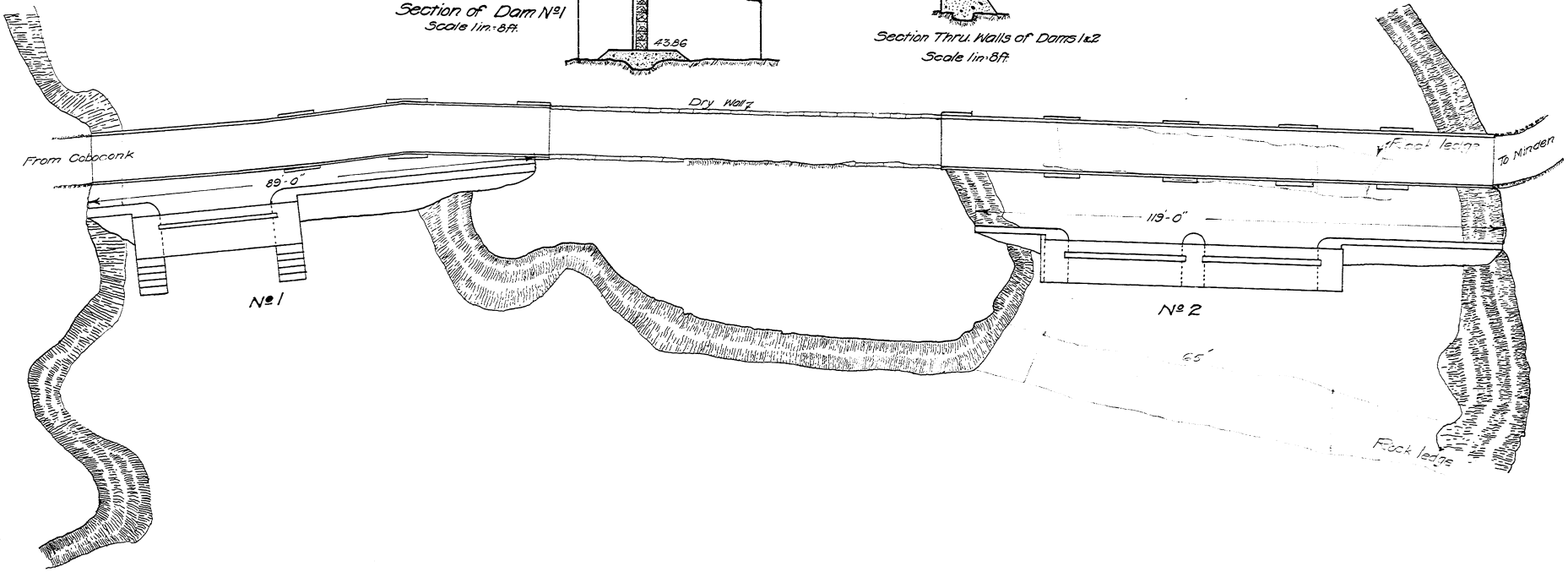
Downstream Elevation Dam No1
Scale 1in.=8ft.

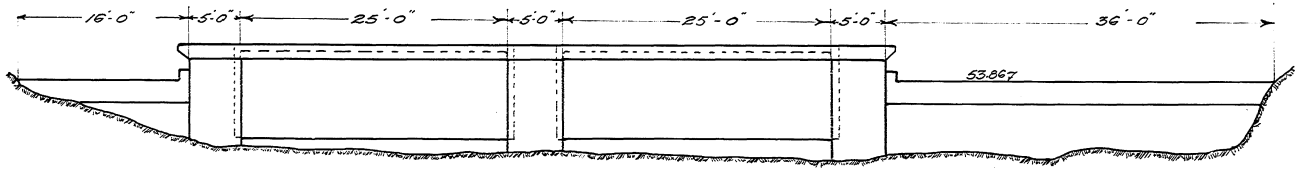


Section of Dam No1
Scale 1in.=8ft.

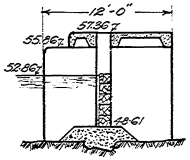


Section Thru. Walls of Dams 1&2
Scale 1in.=8ft.





Downstream Elevation of Dam No2
Scale 1in.=8ft.



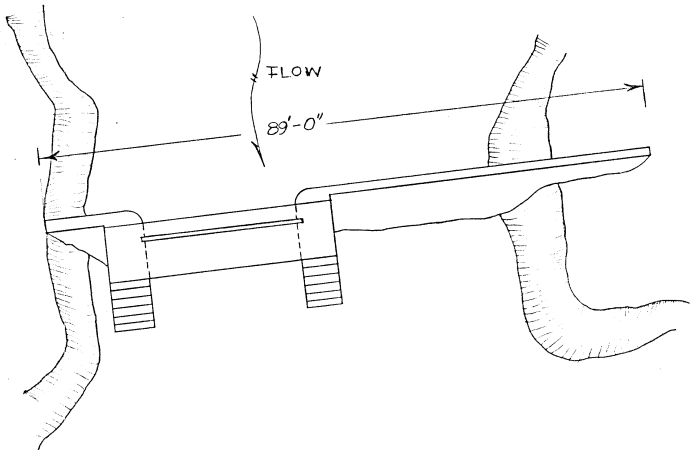
Section of Dam No2
Scale 1in.=8ft.

D-5-4062
T-11-310.1

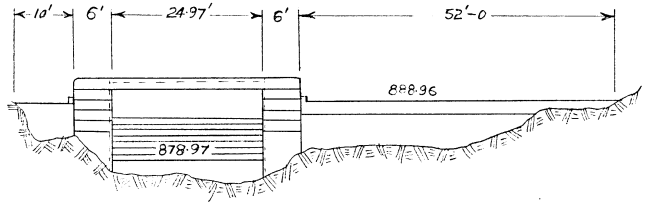
14-5

Note:- This plan is traced from an old blue-print on file in this office.

Peterborough, October 7th 1930.

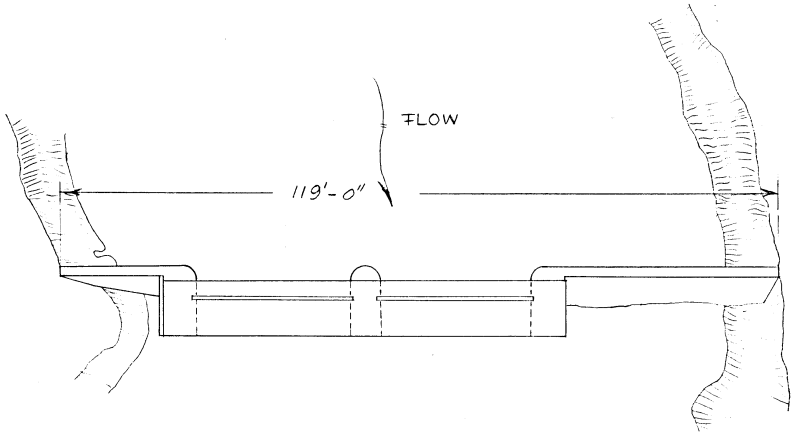


DAM Nº 1 PLAN

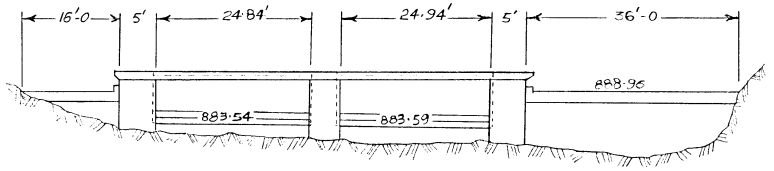


DAM Nº 1 DOWNSTREAM ELEVATION

N



DAM Nº 2 PLAN



DAM Nº 2 DOWNSTREAM ELEVATION

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
PARKS CANADA
TRENT CANAL SYSTEM

MOORES FALLS DAM

DATE : AUG/74
SCALE: 1" = 20'-0

MADE :
TRC'D : DC
CHK'D :
APP'D :

SUPERINTENDING ENGINEER

TC-4448 B

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Moore Lake Dam (@ Elliott Falls)**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Elliots Falls Road		
Topographic Map	-	Coordinates (dd/mm/ss)	N 44° 44' 34"
			W 78° 49' 31"
Drainage basin	Gull River		
Name of watercourse	-	Approximative elevation	- m
Name of lake / reservoir	Moore Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive	Phone	(705) 750-4407
	Peterborough, Ontario, K9J 6Z6	Cellular	(705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	5.90	m	Year of construction	1926
Height of the reservoir	-	m	Year of rehabilitation	-
Length of structure	39.00	m	Drawings and/or specifications	-
Area of the reservoir	194	ha		
Storage capacity	-	m^3	Classification (PCA)	High A
Catchment area	-	km^2	Overall condition	-
			Category	-

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

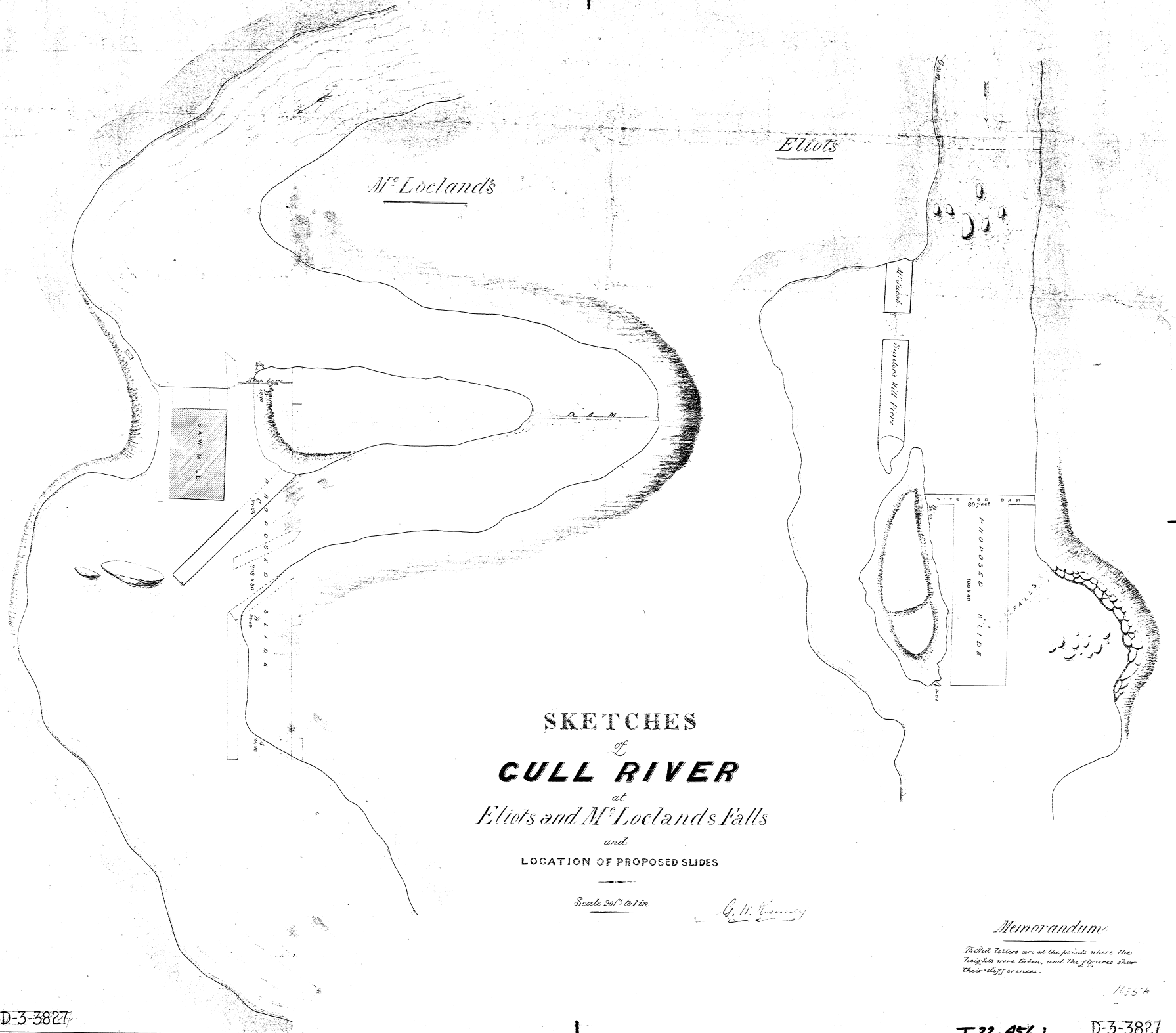
Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -



SKETCHES
of
CULL RIVER
at
Eliots and Mc Loclands Falls
and
LOCATION OF PROPOSED SLIDES

Scale 20 ft to 1 in

G. H. Kinnear

Memorandum

The red letters are at the points where the heights were taken, and the figures show their differences.

1954

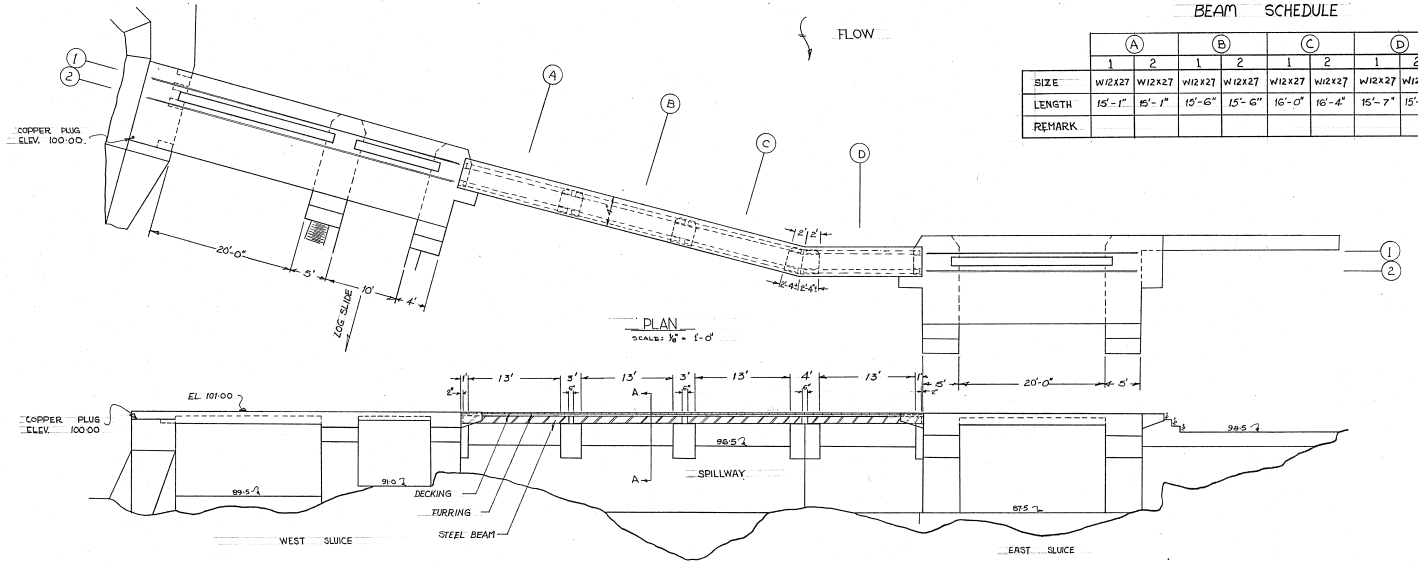
D-3-3827

T-22-456.1

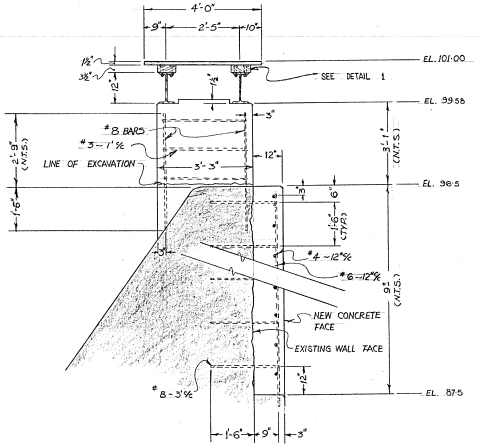
D-3-3827

BEAM SCHEDULE

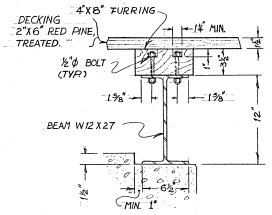
	A		B		C		D	
	1	2	1	2	1	2	1	2
SIZE	W12X27	W12X27	W12X27	W12X27	W12X27	W12X27	W12X27	W12X27
LENGTH	15'-1"	15'-1"	15'-6"	15'-6"	16'-0"	16'-4"	15'-7"	15'-11"
REMARK								



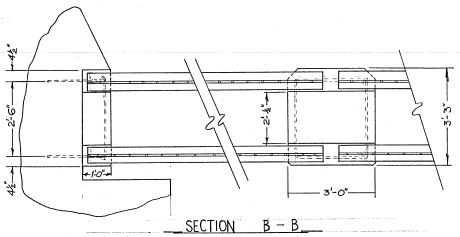
DOWNSTREAM ELEVATION
SCALE: 1/8" = 1'-0"



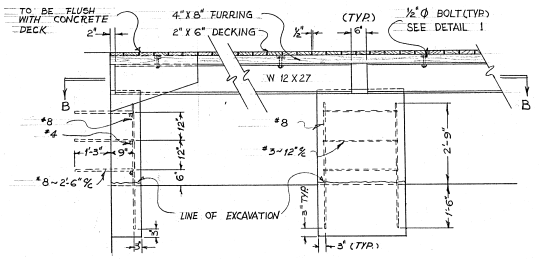
SECTION A–A
SCALE: 1/2" = 1'-0"



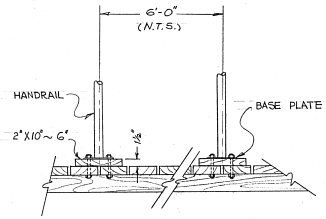
DETAIL 1
SCALE: 1/8" = 1"



SECTION B – B
SCALE: 1/2" = 1'-0"



DECKING AND SPILLWAY REINFORCING DETAIL
SCALE: 1/2" = 1'-0"



NOTE:
BASE OF HANDRAIL MUST OVERLAY TWO OR MORE 2" X 6" DECKING. MORE DETAILS SEE HANDRAIL DWG.

HANDRAIL DETAIL
SCALE: 1" = 1'-0"

Indian and Northern Affairs / Affaires indiennes et du Nord

revisions	date
PROPOSED DECKING FOR EAST AND WEST SLUICES HAD BEEN CHANGED	MAY '75

A detail no. / détail no
B location dwg. no. / sur dessin no
C drawing no. / dessin no

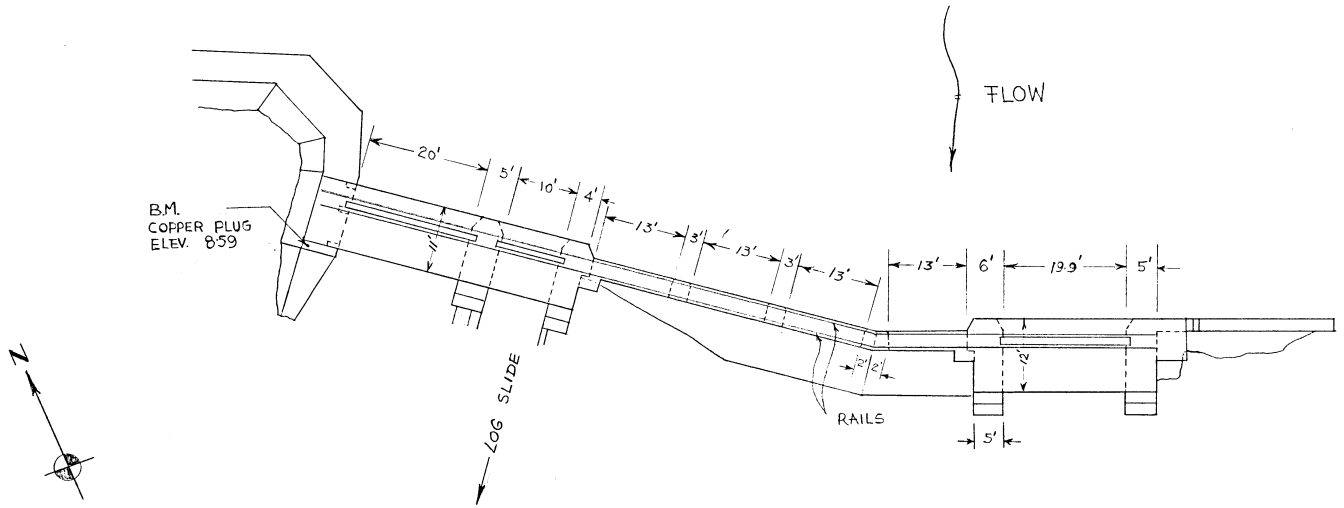
drawn by / tracé par	scale / échelle
SWC	AS SHOWN
designed by / établi par: SWC	
checked by / vérifié par: HVB	May '75
job captain / chef du projet	date
responsible officer / officier responsable	date 13/5/75

project title / titre du projet
ELLIOTTS FALLS DAM

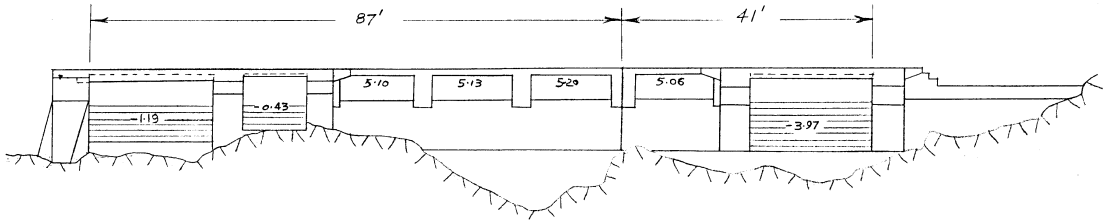
drawing title / titre du dessin
SPILLWAY DECKING RECONSTRUCTION.

reference no. / no de référence: TC 4520G
dwg no. / dessin no: 1/4

IAND 5562 (5-72) 7330-21-029-1219



PLAN



DOWNSTREAM ELEVATION

DEPARTMENT OF INDIAN AFFAIRS
AND NORTHERN DEVELOPMENT
PARKS CANADA
TRENT CANAL SYSTEM

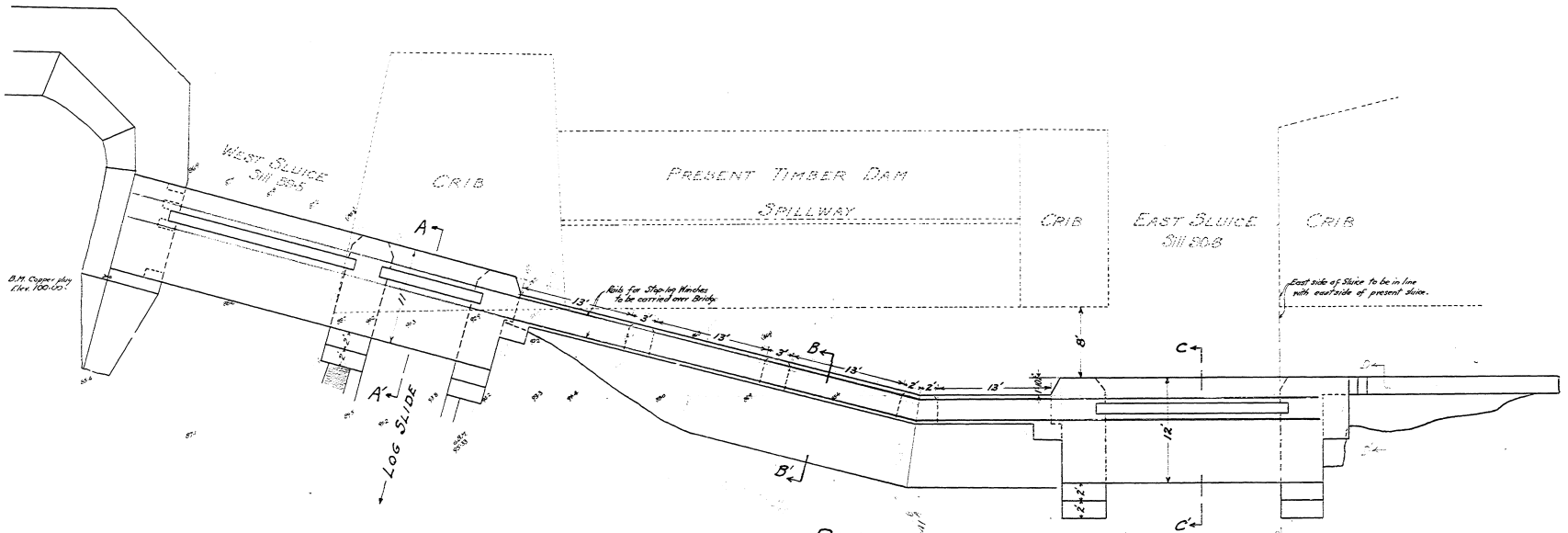
ELLIOTTS FALLS DAM
PLAN & ELEVATION

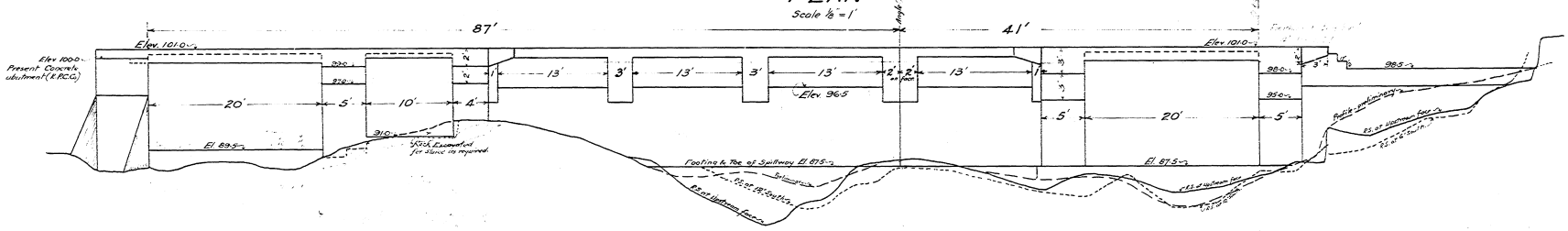
DATE: AUG/74
SCALE: 1" = 20'-0

MADE :
TRC'D : D.C.
CHK'D :
APR'D :

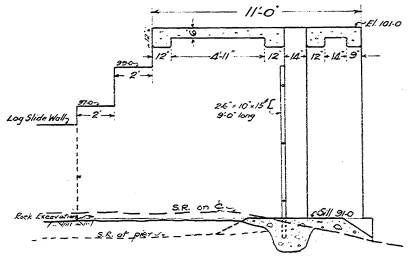
SUPERINTENDING ENGINEER

TC-4450-B

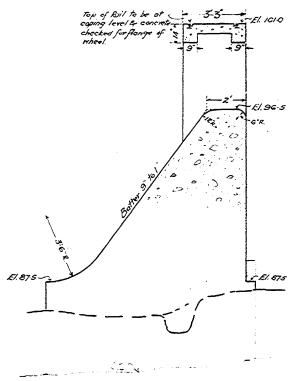




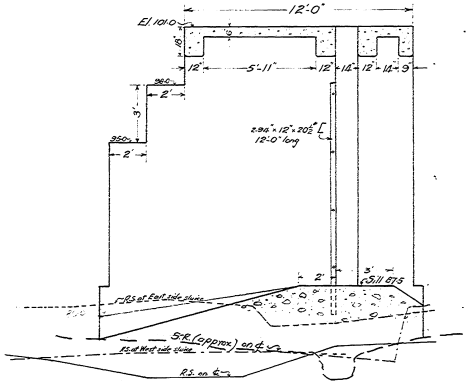
ELEVATION
Scale 1/8" = 1'



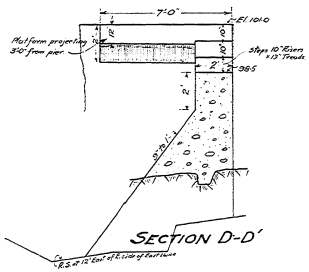
SECTION A-A'



SECTION B-B'



SECTION C-C'



SECTION D-D'

Scale for Sections 1/4" = 1'

TRENT CANAL

ELLIOTTS FALLS DAM

Lot 9 Con. XI Tp. of Laxton

PLAN, ELEVATION & SECTIONS

Scales { 1/8" = 1'
1/4" = 1'

NOTE:-
For Details of Log Slide and Side Dam,
Reinforcing in Stoplog platforms, etc.,
See separate plan-D-5-4070.

Revised 15th Dec. 1926.
Peterborough, 23rd Sept. 1926.

D-5-4060

T-11-309.18

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Norland Dam**	AMS Number :	**11400**
Comments / Description	Concrete Gravity Dam		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	CR 45 and CR 35 intersection		
Topographic Map	031D10 (Fenelon Falls)	Coordinates (dd/mm/ss)	N 44° 43' 43"
			W 78° 48' 37"
Drainage basin	Gull River		
Name of watercourse	Gull River	Approximative elevation	≈ 262 m
Name of lake / reservoir	Gull River		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	6.71	m	Year of construction	1924
Height of the reservoir	5.60	m	Year of rehabilitation	-
Length of structure	76.00	m	Drawings and/or specifications	Available
Area of the reservoir	6.9	ha		
Storage capacity	≈ 170 000	m^3	Classification (PCA)	Significant
Catchment area	-	km^2	Overall condition	B
			Category	Regulated Dam

Main use(s): Navigation

Replacement cost: 79500 *according to AMS Data dating from :* 1997

Deffered Maintenance: -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

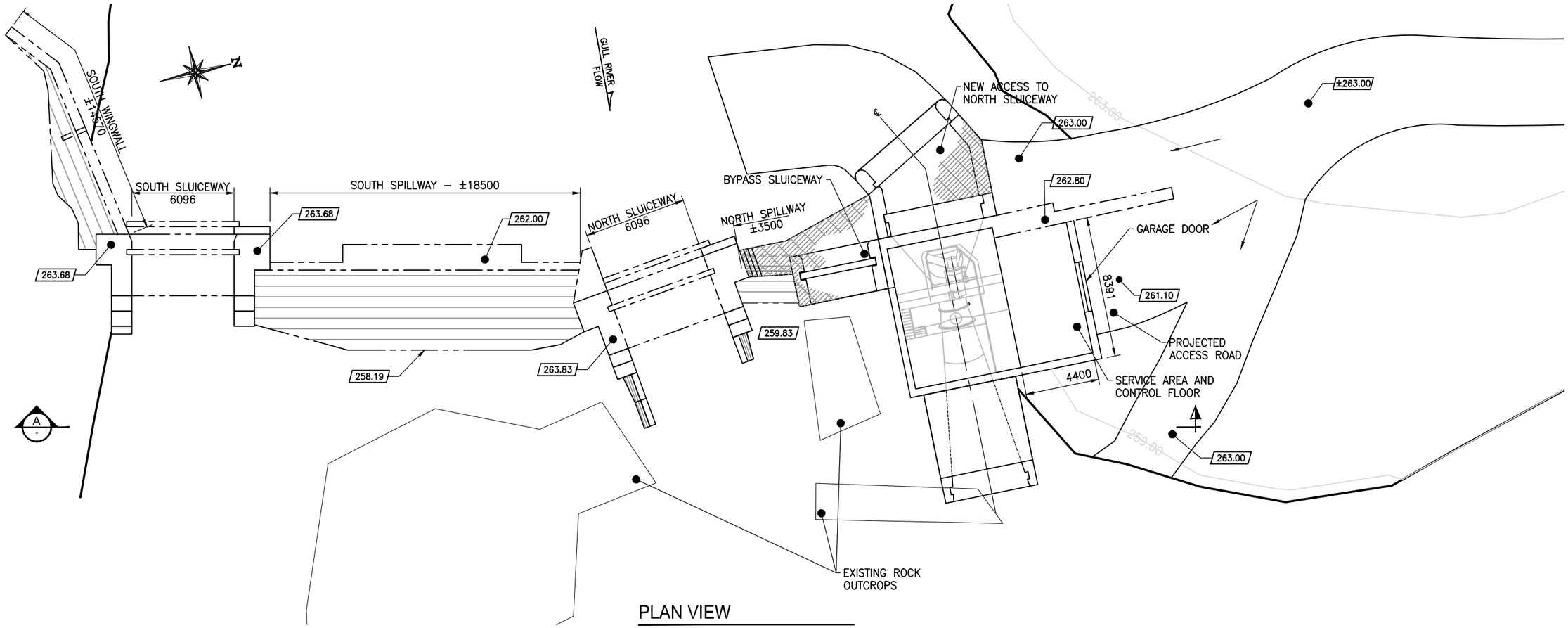
Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

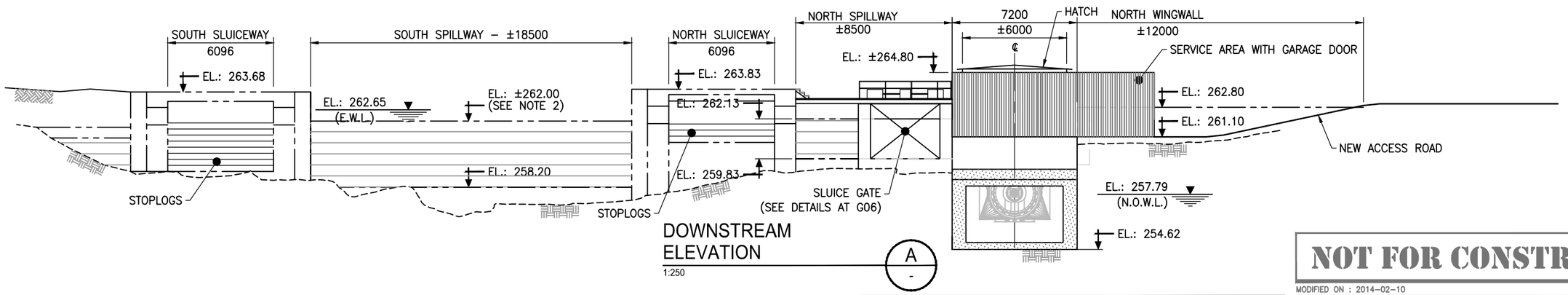
Comments -

Last Engineering inspection by : - Date : - -



PLAN VIEW

1:250



DOWNSTREAM ELEVATION

1:250

NOT FOR CONSTRUCTION

MODIFIED ON : 2014-02-10

Notes

1. SEE G01 FOR GENERAL NOTES AND LEGEND.
2. E.W.L. = EXTREME WATER LEVEL (±262.65 m)
   N.O.W.L. = NORMAL OPERATING WATER LEVEL (262.00 m)

1:250 0 m 2.5 m 5.0 m 7.5 m 10.0 m 12.5 m
0 mm 10 mm 20 mm 30 mm 40 mm 50 mm

THIS SCALE TO BE USED TO OBTAIN APPROXIMATE DIMENSIONS FOR INFORMATION

No	Revision	Date	Init.
D	Revision - Roof Top Elevation	2014-02-10	S.V./E.C.
C	Revision - Intake Gate	2014-02-04	S.V./E.C.
B	Revision - Detail Impact Assessment	2014-01-15	S.V./E.C.
A	Summary Engineering Report	2013-01-11	S.V./B.M.

hydrosys CONSULTANTS

Client: TIMBER RUN HYDROPOWER

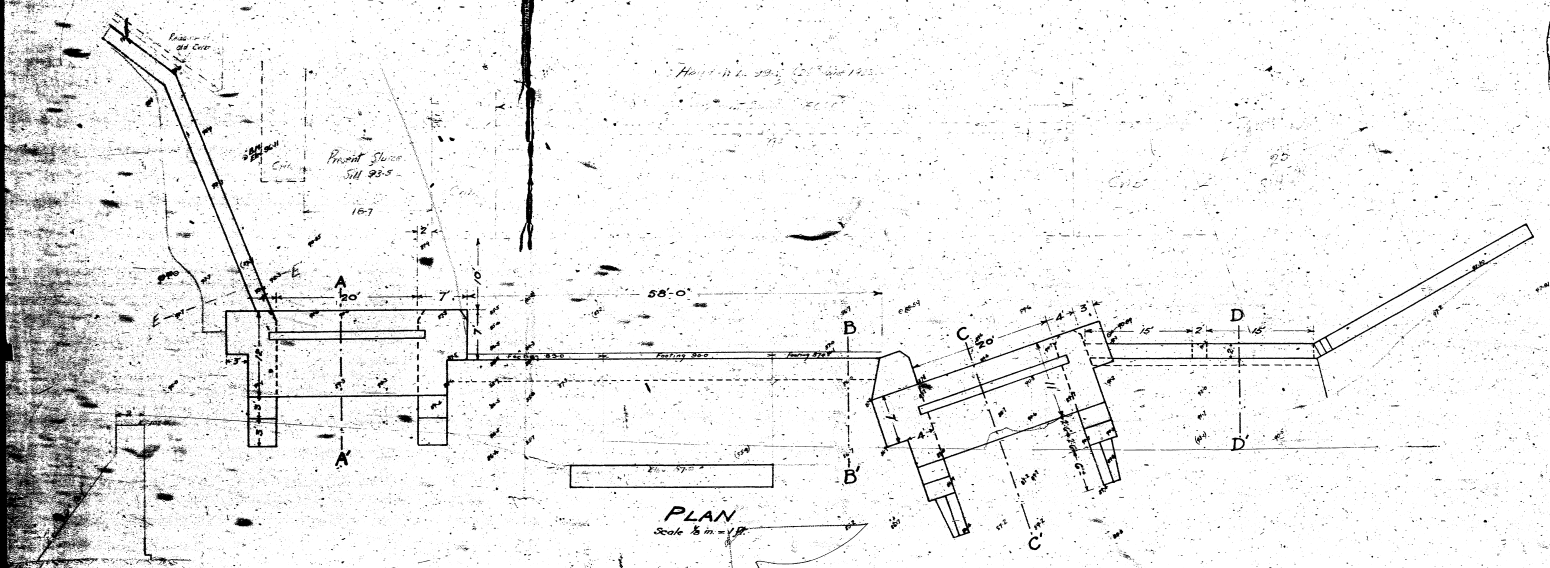
Project: NORLAD WATERPOWER PLAN VIEW AND DOWNSTREAM ELEVATION

Designed by: S.V. | Drawn by: E.C.

Date: 2013-01-11

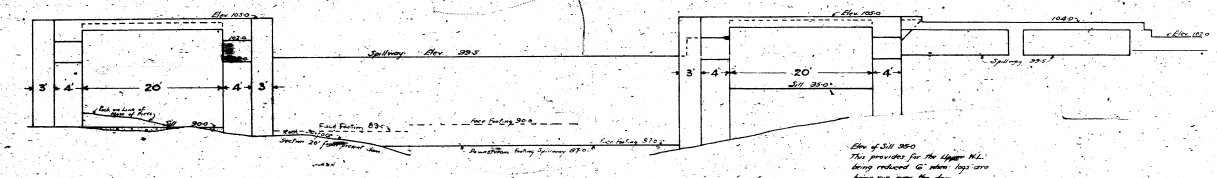
Project: OE7882

Drawing: G02

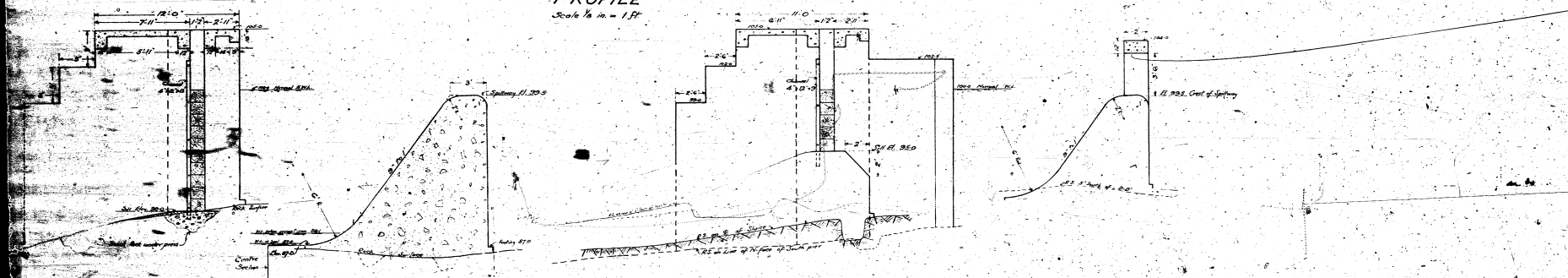


PLAN
Scale ⅛ in. = 1 ft.

SECTION E-F
Scale ½" = 1'



PROFILE
Scale ⅛ in. = 1 ft.



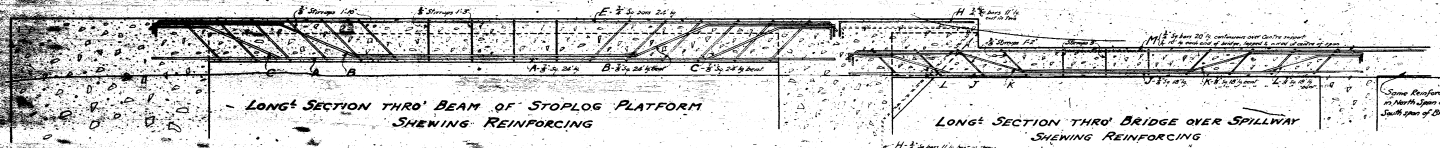
SECTION THRO' SLUICE A-A'

SPILLWAY SECTION B-B'

SECTION THRO' LOG SLUICE C-C'

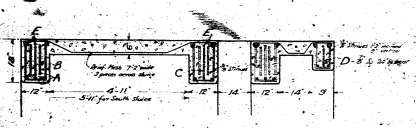
SPILLWAY SECTION D-D'

Scale for Sections ½" = 1'

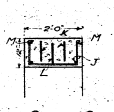


LONG^L SECTION THRO' BEAM OF STOPLOG PLATFORM SHEWING REINFORCING

LONG^L SECTION THRO' BRIDGE OVER SPILLWAY SHEWING REINFORCING



CROSS SEC. THRO' PLATFORM OVER NORTH SLUICE
Scale ½" = 1'



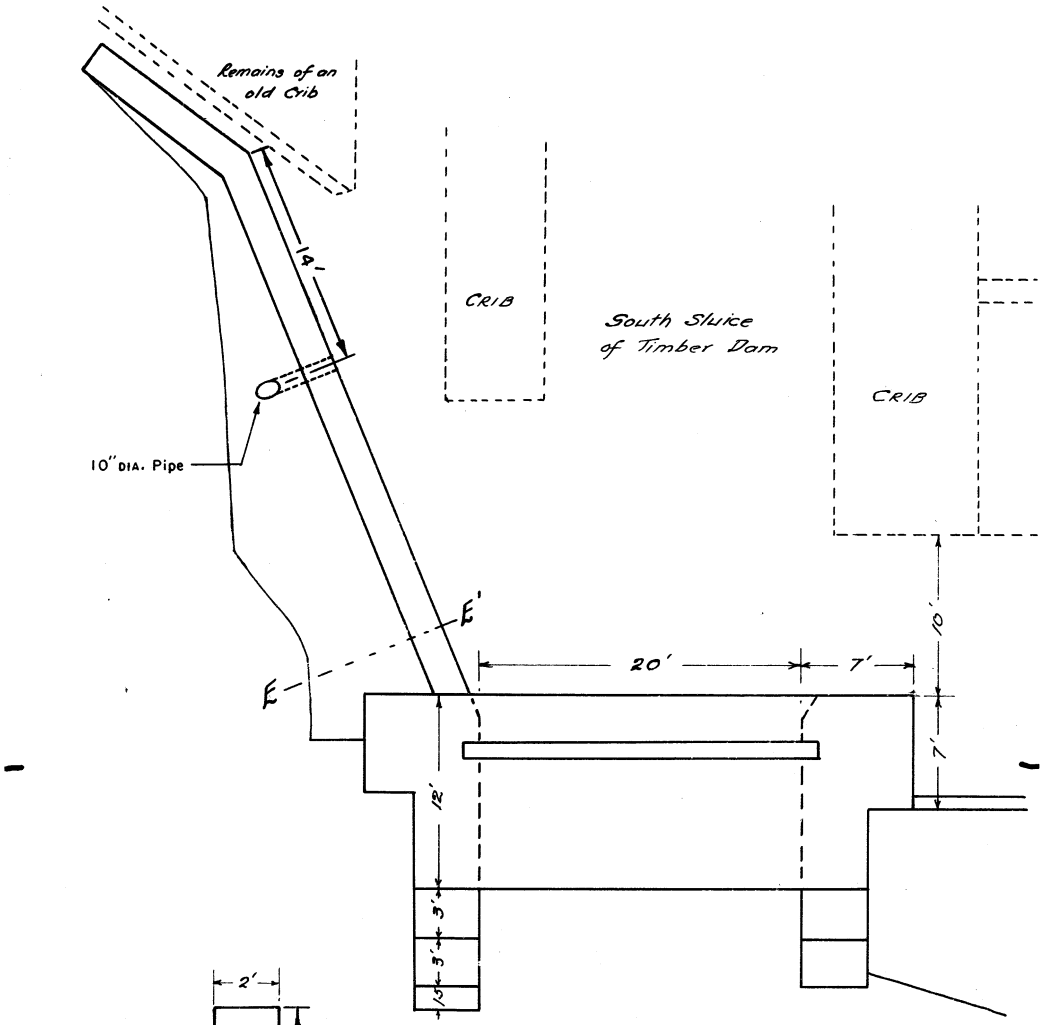
CROSS SEC. THRO' BRIDGE OVER SPILLWAY
Scale ½" = 1'

TRENT CANAL
RESERVOIR WATERS

DAM ON THE GULL RIVER AT NORLAND

Townships of Somerville and Laxton
Scales as indicated

Superintendent's Office
Peterborough Sept 13th



Section E-E'
Scale ¼" = 1'

TRENT CANAL

NORLAND DAM

Plan of South Wing shewing 10" DIA. Pipe to Norland Waterworks Association Hydraulic Ram

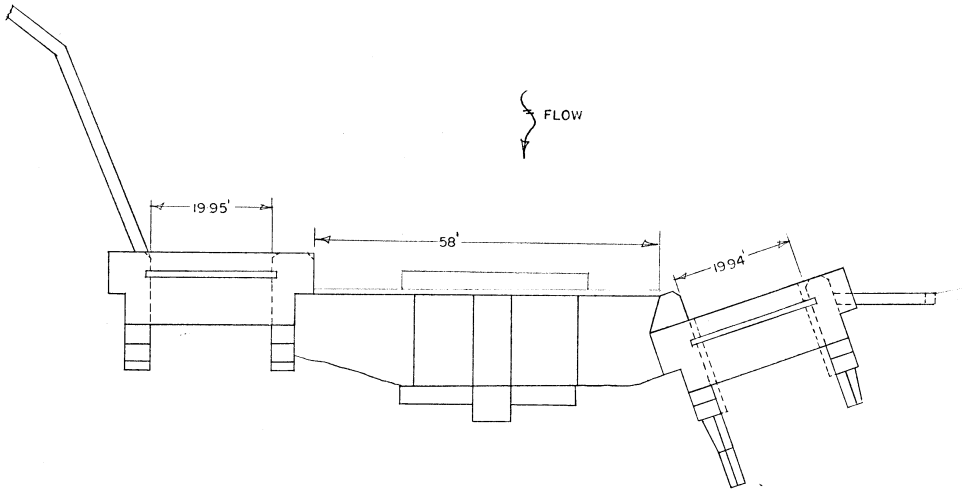
Scale ⅛" = 1'

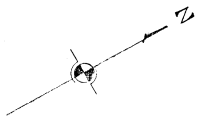
T-11-244

T.C.3663-A

Revision - AUG. 1, 1968 - 10 in. pipe added

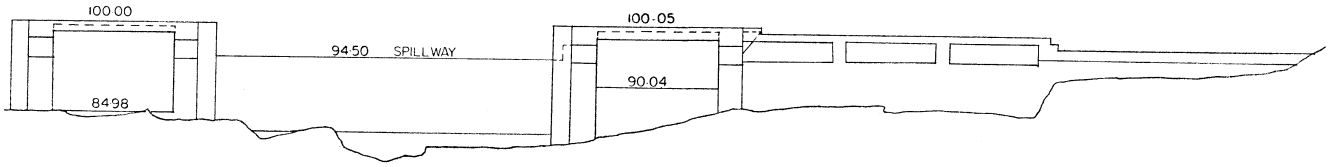
Superintendents Office
Peterborough 24th Jan. 1925.





ELEVATION BASE ON ASSUMING
TOP OF DECK ELEVATION IS 100.00'

PLAN



DOWNSTREAM ELEVATON

DEPARTMENT OF INDIAN AFFAIRS
AND NORTHERN DEVELOPMENT
PARKS CANADA
TRENT CANAL SYSTEM

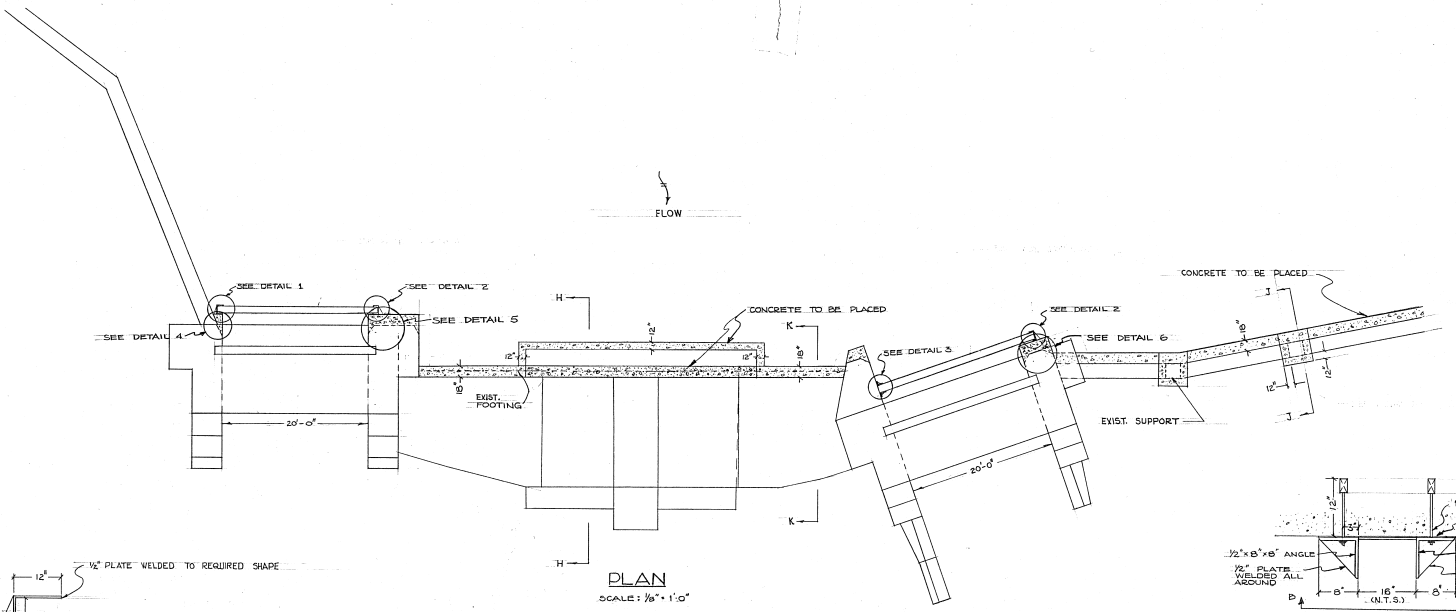
NORLAND DAM

SCALE: 1" = 20'-0"
DATE: APRIL/75

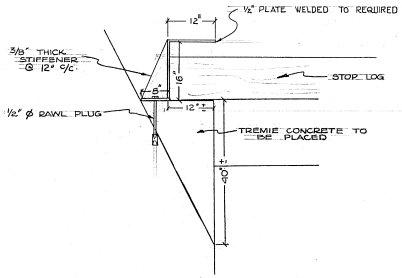
MADE:
TRC'D: SWC
CHK'D:
APR'D:

SUPERINTENDENT

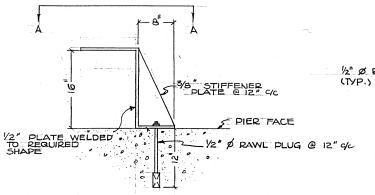
TC 4517 B



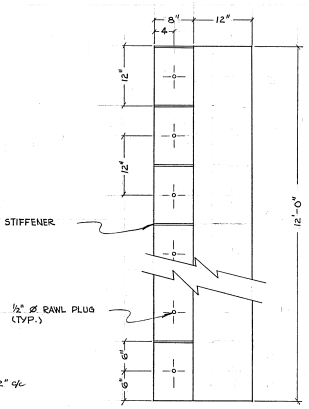
PLAN
SCALE : 1/8" = 1'-0"



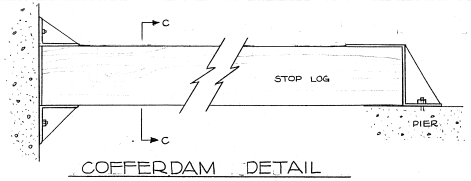
DETAIL 1
SCALE : 3/4" = 1'-0"



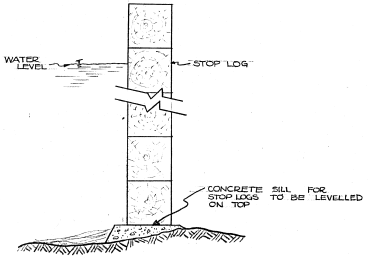
DETAIL 2
SCALE : 1" = 1'-0"



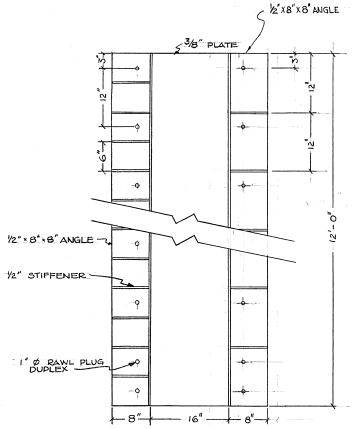
SECTION A-A
SCALE : 1" = 1'-0"



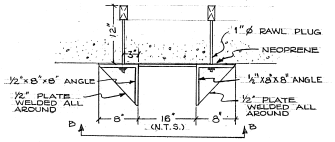
COFFERDAM DETAIL
SCALE : 1" = 1'-0"



SECTION C-C
SCALE : 3/4" = 1'-0"



SECTION B-B
SCALE : 1" = 1'-0"



DETAIL 3
SCALE : 1" = 1'-0"

Indian and Northern Affairs / Affaires indiennes et du Nord

revisions / date

A detail no. / détail nº
B location dwg. no. / sur dessin nº
C drawing no. / dessin nº

drawn by / tracé par: DEB — MAY 1976
scale / échelle: AS SHOWN
designed by / établi par
checked by / vérifié par
job captain / chef du projet — date
responsible officer / officier responsable — date

project title / titre du projet

NORLAND DAM REPAIRS

drawing title / titre du dessin

COFFERDAM DETAILS

reference no. / nº de référence: TSW 4626 G
dwg no. / dessin nº: 1/2

IAND 58-82 (5-72) 7530-21-029-1219

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Coboconk Dam**	AMS Number :	**11400**
Comments / Description	Concrete Gravity Dam		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	CR 35 and Baseline Rd intersection		
Topographic Map	031D10 (Fenelon Falls)	Coordinates (dd/mm/ss)	N 44° 39' 34"
			W 78° 47' 49"
Drainage basin	Gull River		
Name of watercourse	Gull River	Approximative elevation	≈ 258 m
Name of lake / reservoir	Gull River (Silver & Shadow ?)		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	5.87	m	Year of construction	1943
Height of the reservoir	5.00	m	Year of rehabilitation	-
Length of structure	101.80	m	Drawings and/or specifications	Available
Area of the reservoir	21	ha		
Storage capacity	≈ 900 000	m^3	Classification (PCA)	High A
Catchment area	-	km^2	Overall condition	C
			Category	Regulated Dam

Main use(s): Navigation Storage

Replacement cost: 157600 *according to AMS Data dating from :* 1997

Deffered Maintenance: -

24-08-2018

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

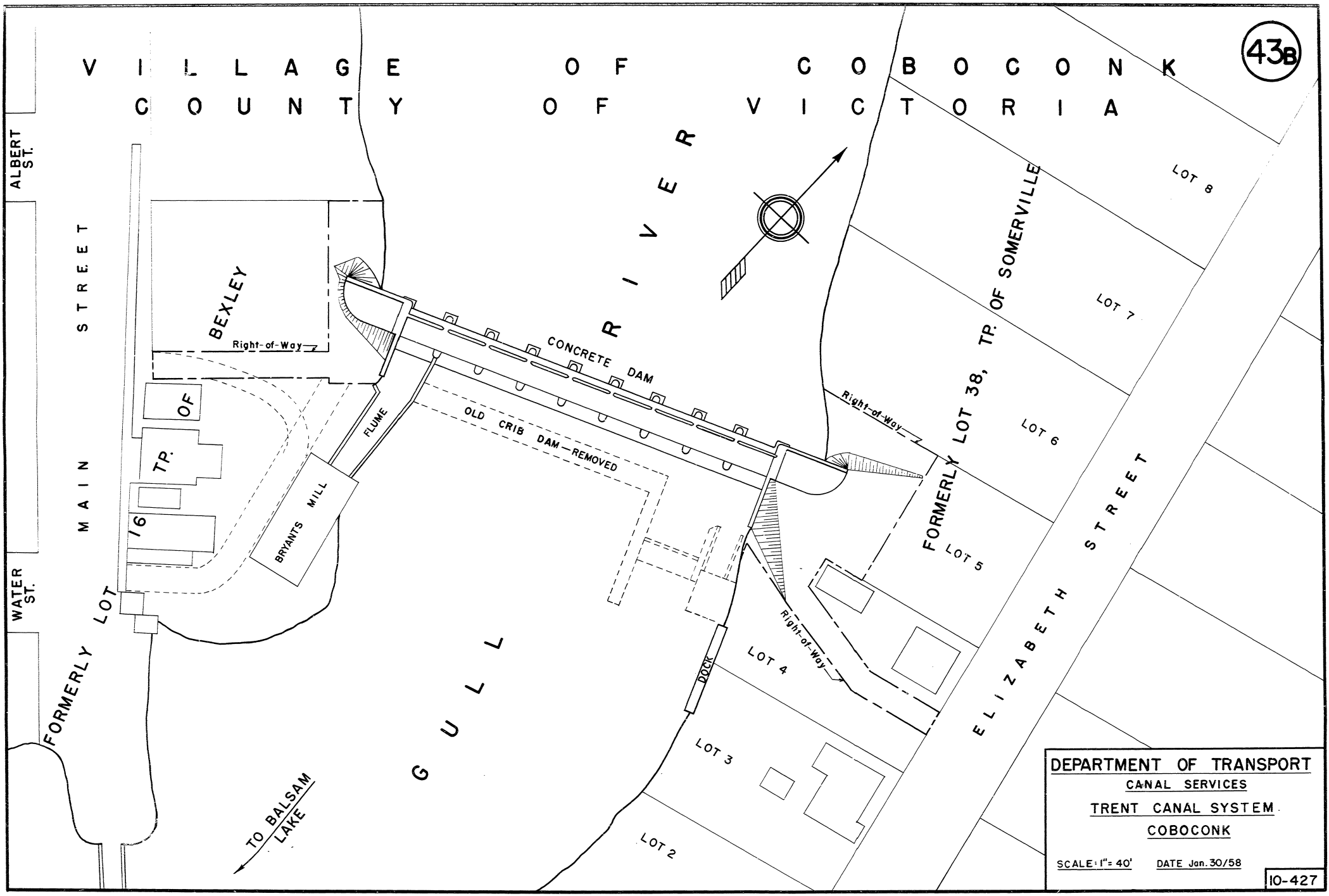
Comments -

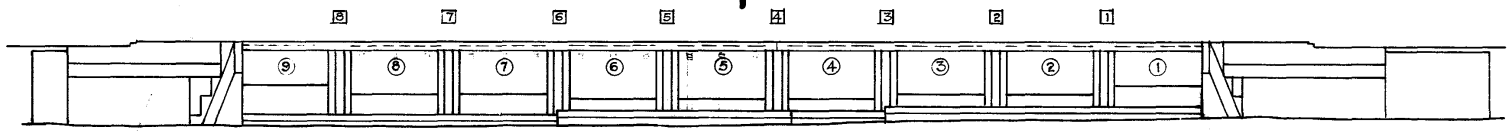
SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

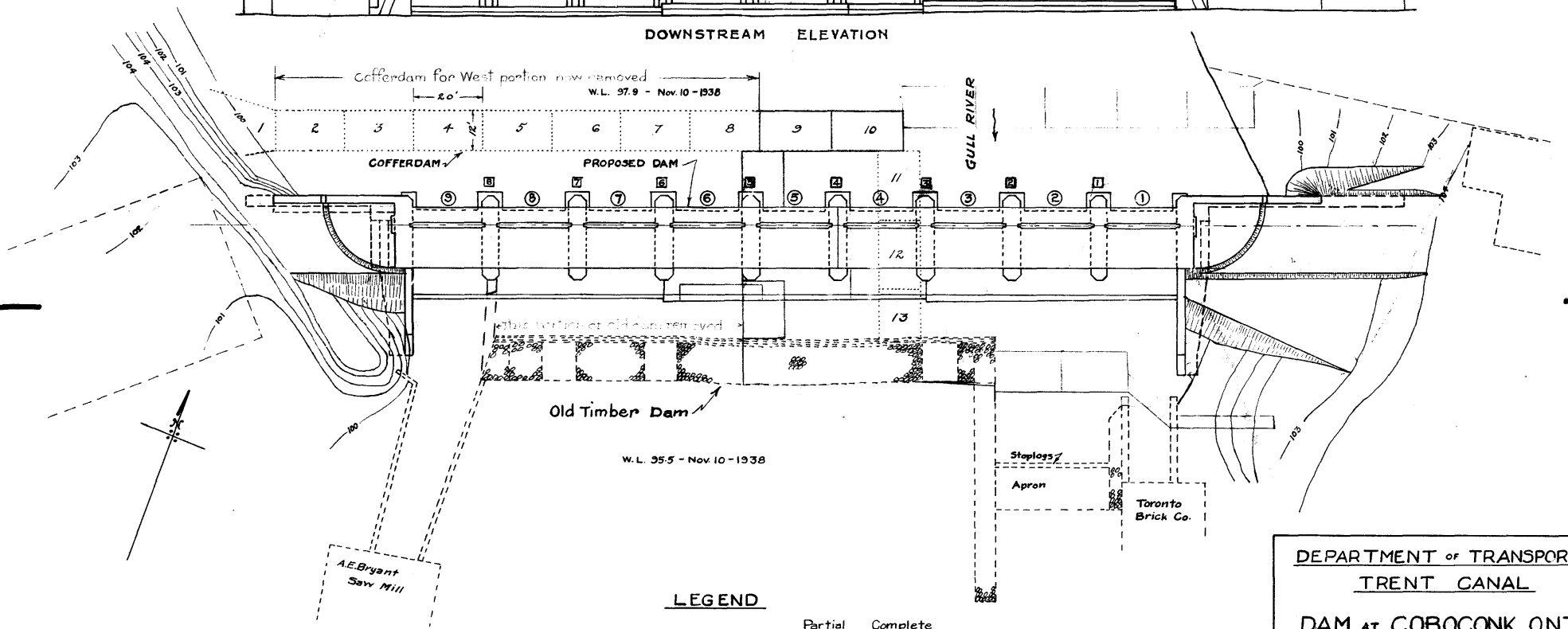
Comments -

Last Engineering inspection by : - Date : - -


43B
VILLAGE OF COBOCONK
COUNTY OF VICTORIA
ALBERT ST.
WATER ST.
MAIN STREET
FORMERLY LOT 16
TP. OF BEXLEY
Right-of-Way
BRYANTS MILL
FLUME
CONCRETE DAM
OLD CRIB DAM—REMOVED
GULL RIVER
Right-of-Way
FORMERLY LOT 38, TP. OF SOMERVILLE
LOT 8
LOT 7
LOT 6
LOT 5
LOT 4
LOT 3
LOT 2
DOCK
Right-of-Way
ELIZABETH STREET
TO BALSAM LAKE
DEPARTMENT OF TRANSPORT
CANAL SERVICES
TRENT CANAL SYSTEM
COBOCONK
SCALE: 1" = 40'
DATE Jan. 30/58
10-427



DOWNSTREAM ELEVATION



LEGEND

	Partial	Complete
Excavation shown in Brown	▨	▭
Forming " " Green outline	—	▭
Concrete " " Red	▨	▭
Cofferdam " " Violet	▨	▭

T-11-207.9 IC

D-5-4091

DEPARTMENT OF TRANSPORT

TRENT CANAL

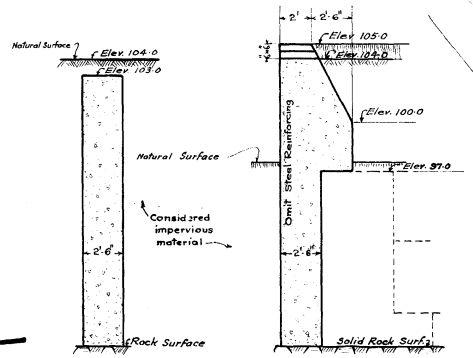
DAM AT COBOCONK, ONT.

PLAN SHOWING PROGRESS TO [redacted]

Scale - 1 in. = 20 ft.

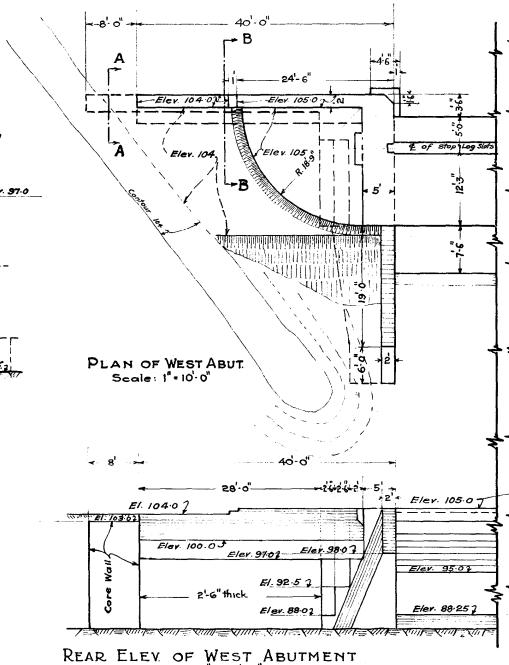
Peterborough, Ont. October 14th 1939. Revised Sept. 1940. T. C. 627

3+½

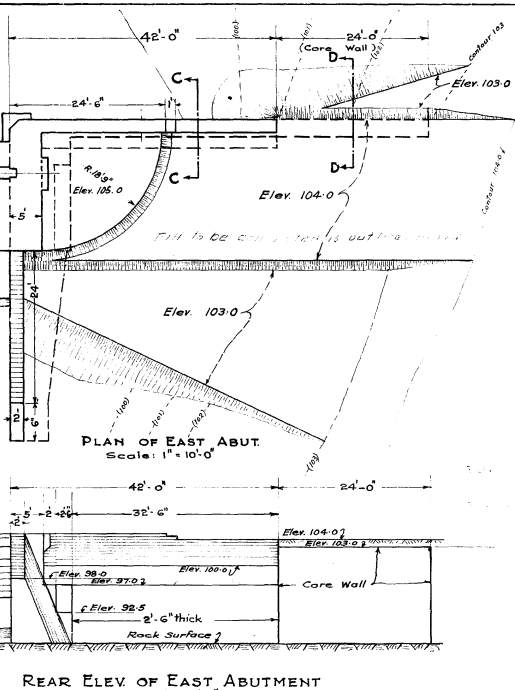


SEC. THRO A-A
(Core Wall)
Scale ¼" = 1'-0"

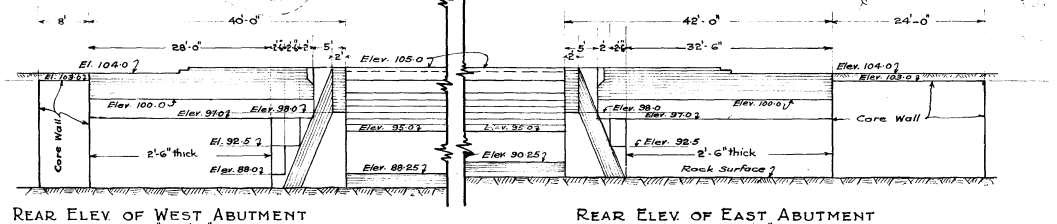
SEC. THRO. B-B
Scale: ¼" = 1'-0"



PLAN OF WEST ABUT.
Scale: 1" = 10'-0"

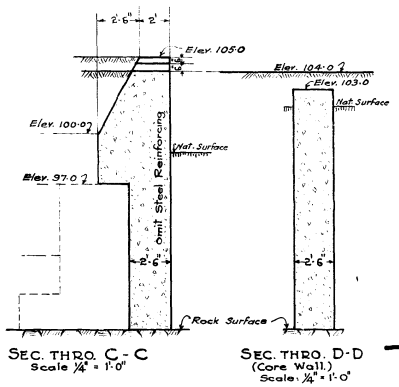


PLAN OF EAST ABUT.
Scale: 1" = 10'-0"



REAR ELEV. OF WEST ABUTMENT
Scale: 1" = 10'-0"
(Backfilling and Embankments not shown)

REAR ELEV. OF EAST ABUTMENT
Scale: 1" = 10'-0"
(Backfilling and Embankments not shown)



SEC. THRO. C-C
Scale ¼" = 1'-0"

SEC. THRO. D-D
(Core Wall.)
Scale: ¼" = 1'-0"

DEPARTMENT OF TRANSPORT
TRENT CANAL

COBOCONK DAM

PROPOSED

REVISED DESIGN OF ABUTMENTS

Scales as Indicated

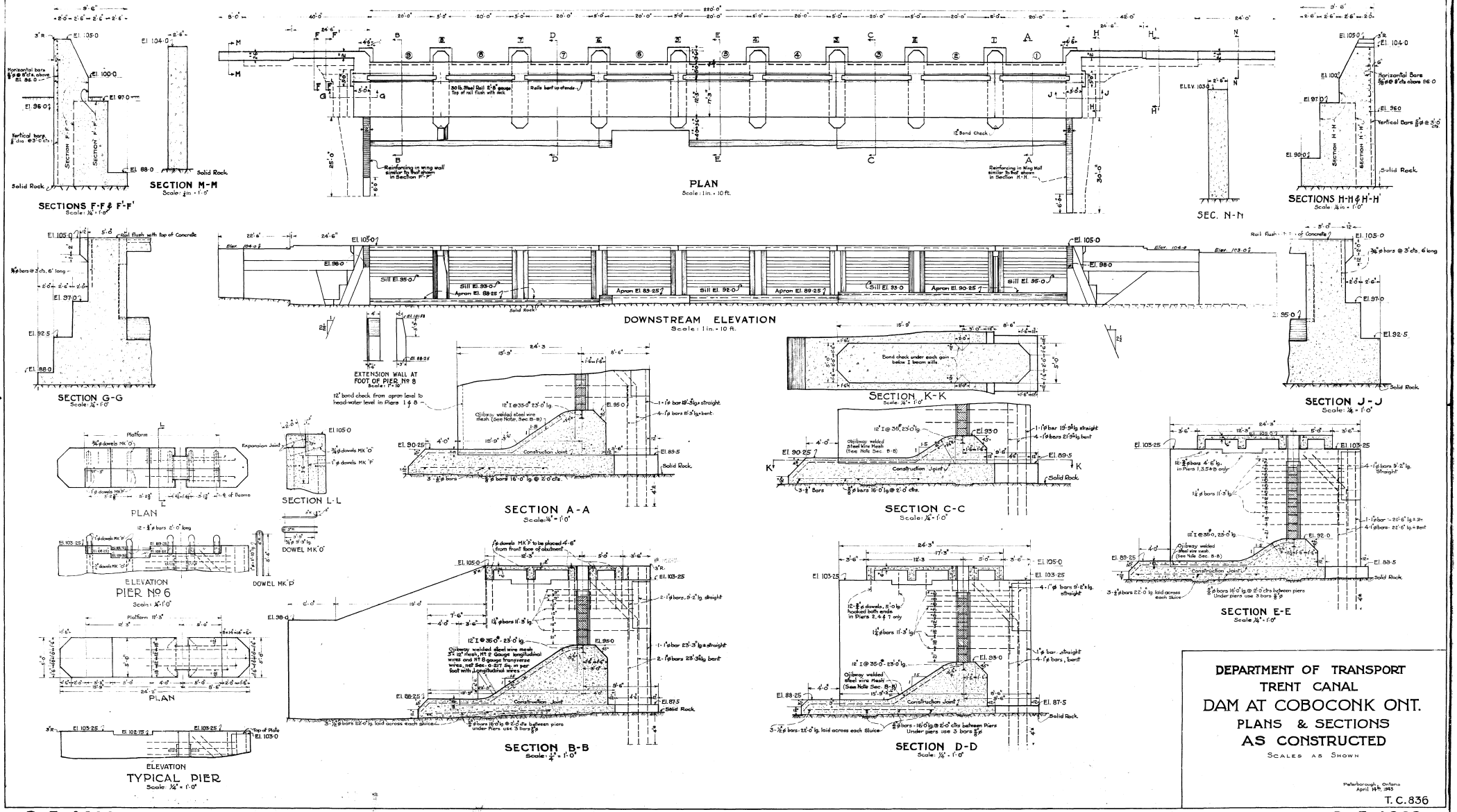
Peterborough, Ont., Nov. 8th, 1939

T-1-207.10

T. C. 630

D-5-4092

D-5-4092



DEPARTMENT OF TRANSPORT

TRENT CANAL

DAM AT COBOCONK ONT.

PLANS & SECTIONS AS CONSTRUCTED

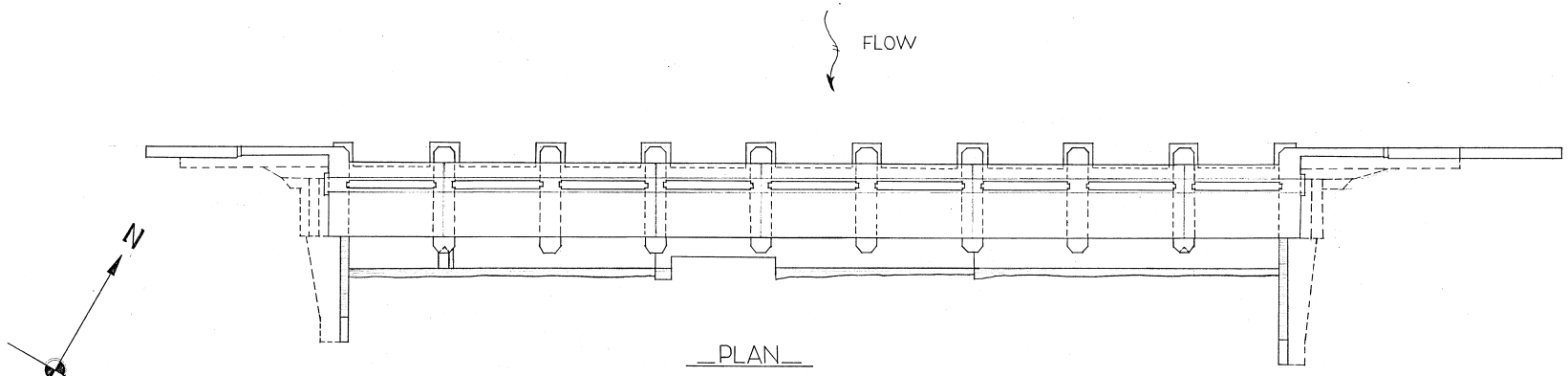
SCALES AS SHOWN

Peterborough, Ontario
April 14th, 1945

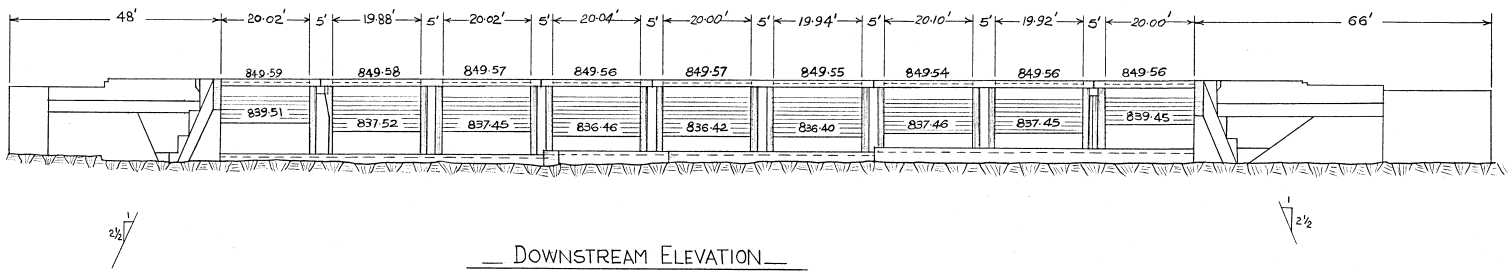
T. C. 836

D-5-4096

T71-207.14 D-5-4096



PLAN



DOWNSTREAM ELEVATION

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
PARKS CANADA.
TRENT CANAL SYSTEM.

COBOCONK DAM

DATE: OCT. /74
SCALE: 1" = 20'-0"

MADE:
TRCD: D.C.
CHK'D:
APR'D:

SUPERINTENDENT

TC-4480-C

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Drag Lake North Dam**	AMS Number :	**11400**
Comments / Description	?		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Outlet Bay Lane, via Dover Spring Rd and CR 118 (Haliburton)		
Topographic Map	031E01 (Wilberforce)	Coordinates (dd/mm/ss)	N 45° 03' 04" W 78° 28' 33"
Drainage basin	Burnt River		
Name of watercourse	Drag River	Approximative elevation	≈ 355 m
Name of lake / reservoir	Drag Lake & Spruce Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	6.10	m	Year of construction	1920
Height of the reservoir	5.60	m	Year of rehabilitation	-
Length of structure	30.33	m	Drawings and/or specifications	Available
Area of the reservoir	1102	ha		
Storage capacity	≈ 50M	m^3	Classification (PCA)	High A
Catchment area	-	km^2	Overall condition	B
			Category	Regulated Dam

Main use(s)	Navigation Storage		
Replacement cost	79500	*according to AMS Data dating from :*	1997
Deffered Maintenance	-		

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

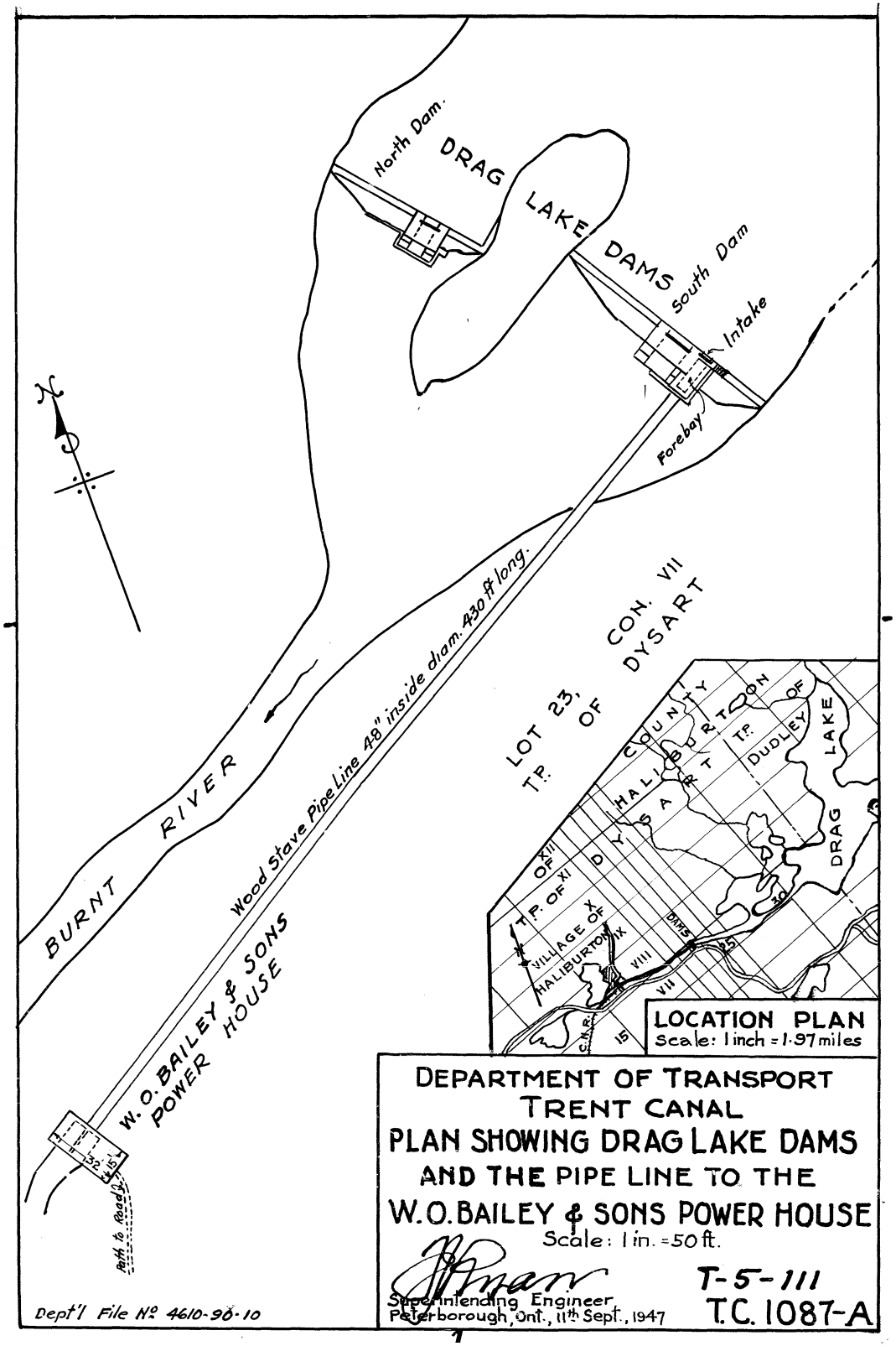
Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -



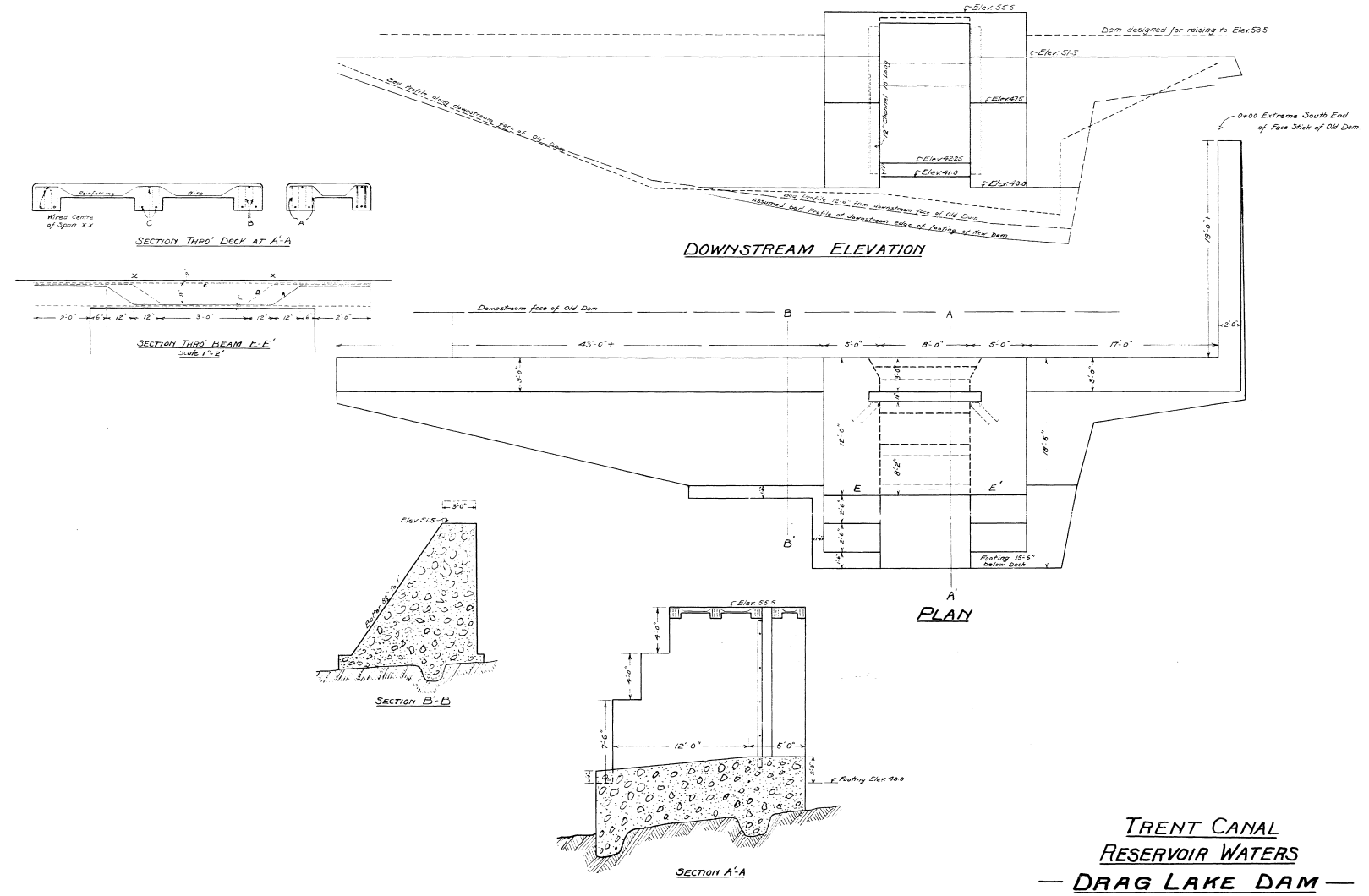
DEPARTMENT OF TRANSPORT
TRENT CANAL
PLAN SHOWING DRAG LAKE DAMS AND THE PIPE LINE TO THE W.O. BAILEY & SONS POWER HOUSE

Scale: 1 in. = 50 ft.

Superintending Engineer
Peterborough, Ont., 11th Sept., 1947

T-5-111
T.C. 1087-A

Dept'l File No. 4610-98-10



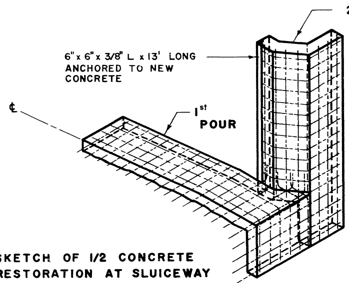
TRENT CANAL
RESERVOIR WATERS
— DRAG LAKE DAM —
NORTH SIDE
LOT 23 CON. T. DYSART TP.
Scale 1"=5'

June 10, 1920

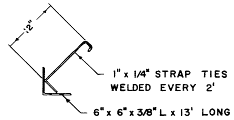
Chas. T. Porter

D-5-4058

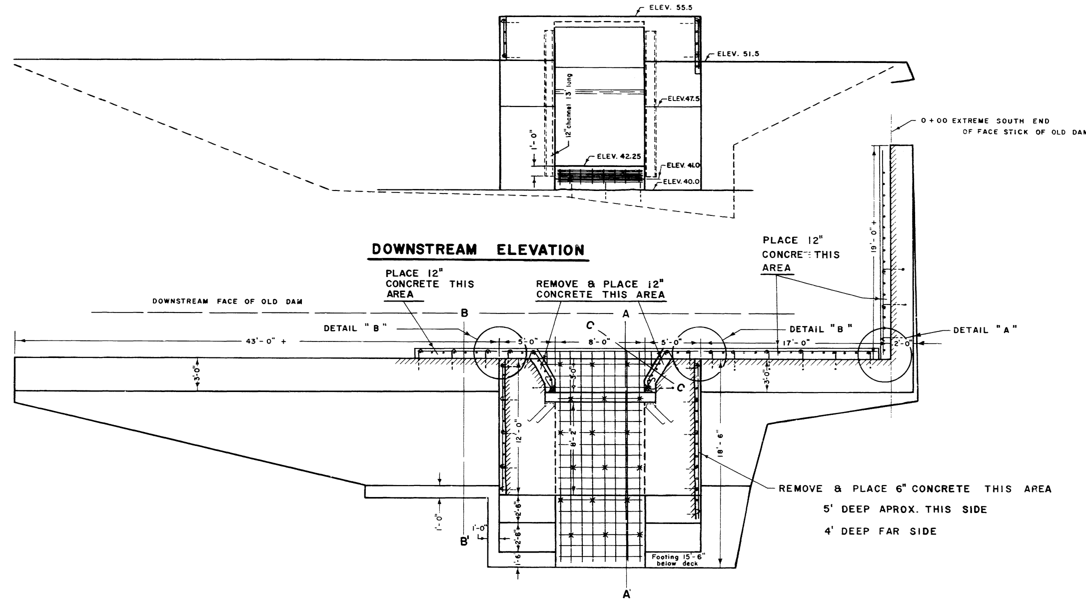
F11-274.2 D-5-4058



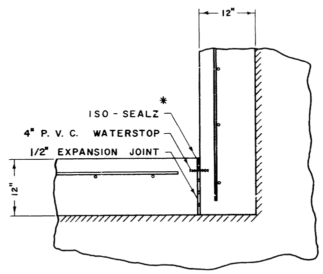
SKETCH OF 1/2 CONCRETE
RESTORATION AT SLUICEWAY



STEEL ANGLE FOR STOP LOG GAINS
2 REQUIRED
SCALE - 1" = 1' - 0"

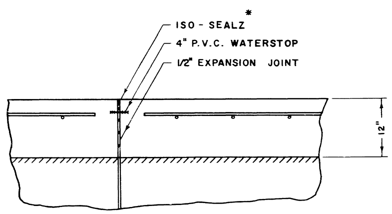


PLAN



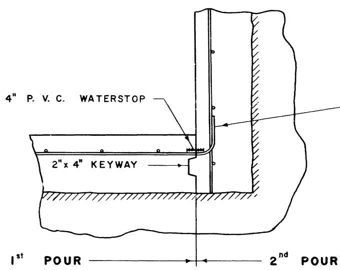
DETAIL "A"

SCALE - 1" = 1' - 0"



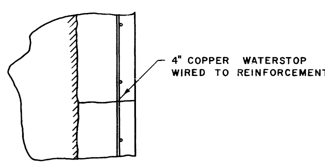
DETAIL "B"

SCALE - 1" = 1' - 0"



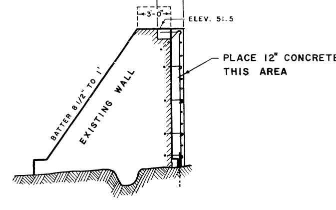
SECTION C - C

SCALE - 1" = 1' - 0"

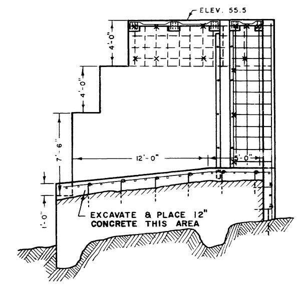


HORIZONTAL CONSTRUCTION
JOINT

SCALE - 1" = 1' - 0"



SECTION B' - B



SECTION A' - A

SCALE ABOVE DRAWINGS - 1" = 5' - 0"

NOTE:
3" COVER ON ALL REINFORCING STEEL.
REINFORCING STEEL 1/2" BARS ON 12" SPACING IN BOTH DIRECTIONS.
PLACE 1/2" ANCHORS 12" INTO EXISTING CONCRETE AND SPACE 3' IN BOTH DIRECTIONS.
PLACE 1" ϕ 24" LONG DOWELS 12" INTO 1" NEAT HOLES ON 3' CTS ON BOTTOM EDGE OF BACK CONCRETE AND SPACE 8 DOWELS OVER SPILLWAY.
PLACE 3/4" ϕ ROCK ANCHORS ON 5' CTS ON BOTTOM EDGE OF BACK CONCRETE.
* VERTI-SEAL OR EQUIVALENT IF ISO-SEALZ NOT AVAILABLE.

DEPARTMENT OF TRANSPORT
MARINE WORKS
CANALS DIVISION
TRENT CANAL SYSTEM

REPAIRS TO DRAG LAKE DAM

SCALE: AS SHOWN
DESIGN:
DRAWN:
CHECKED:
DATE: Nov. 16 1964
SUPERINTENDING ENGINEER
TC 3204-6

T-H-270.1

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Drag Lake South Dam**	AMS Number :	**11400**
Comments / Description	Concrete Gravity Dam		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Outlet Bay Lane, via Dover Spring Rd and CR 118 (Haliburton)		
Topographic Map	031E01 (Wilberforce)	Coordinates (dd/mm/ss)	N 45° 03' 04" W 78° 28' 33"
Drainage basin	Burnt River		
Name of watercourse	Drag River	Approximative elevation	≈ 355 m
Name of lake / reservoir	Drag Lake & Spruce Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	6.40	m	Year of construction	1920
Height of the reservoir	5.90	m	Year of rehabilitation	-
Length of structure	32.92	m	Drawings and/or specifications	Available
Area of the reservoir	1102	ha		
Storage capacity	≈ 60M	m^3	Classification (PCA)	High A
Catchment area	-	km^2	Overall condition	C
			Category	Regulated Dam

Main use(s)	Navigation Storage		
Replacement cost	79500	*according to AMS Data dating from :*	1997
Deffered Maintenance	-		

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

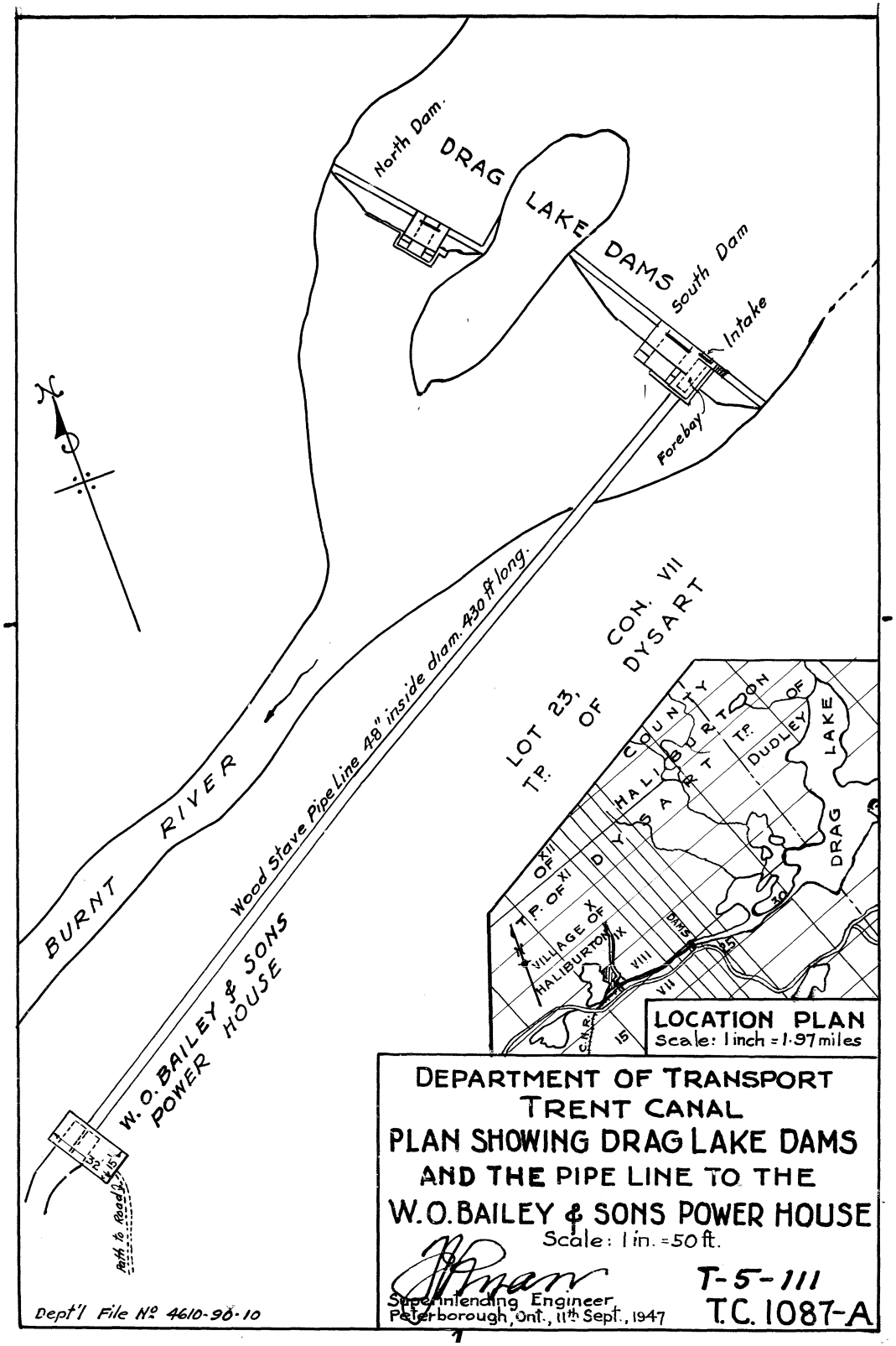
Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -



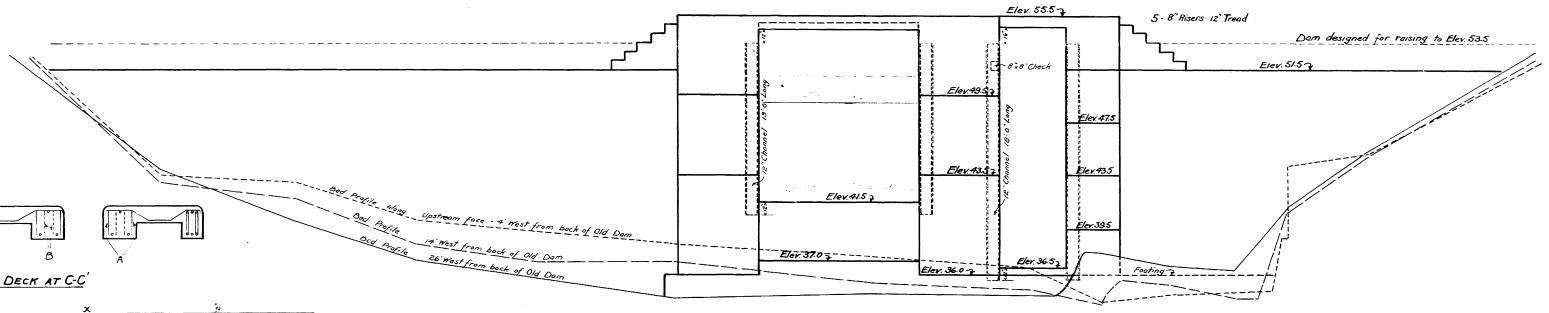
DEPARTMENT OF TRANSPORT
TRENT CANAL
PLAN SHOWING DRAG LAKE DAMS AND THE PIPE LINE TO THE W.O. BAILEY & SONS POWER HOUSE

Scale: 1 in. = 50 ft.

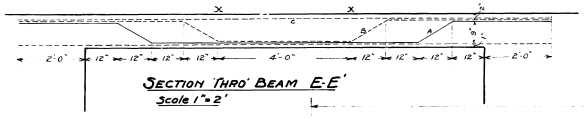
Superintending Engineer
Peterborough, Ont., 11th Sept., 1947

T-5-111
T.C. 1087-A

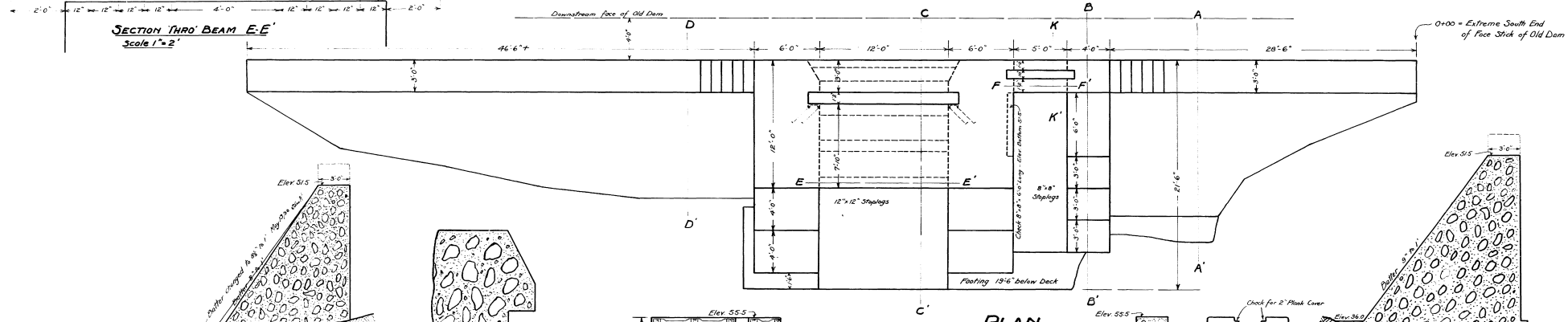
Dept'l File No. 4610-98-10

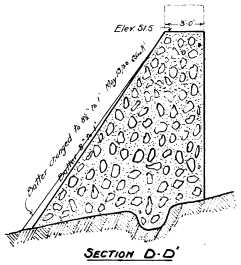


DOWNSTREAM ELEVATION

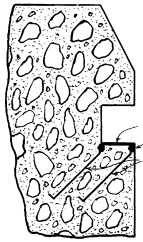


SECTION THRO' BEAM E-E'
Scale 1" = 2'

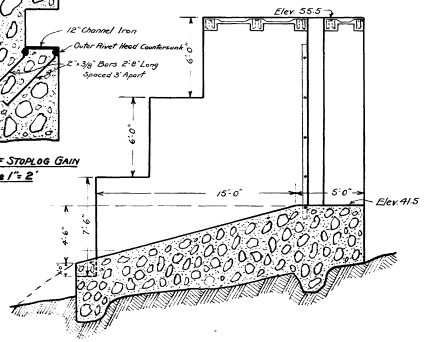




SECTION D-D'

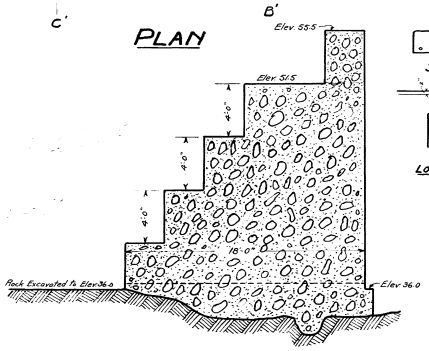


DETAIL OF STOPLOG GAIN
Scale 1" = 2'

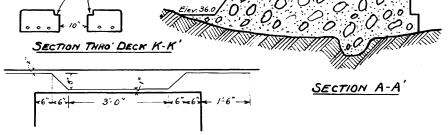


SECTION C-C'

PLAN

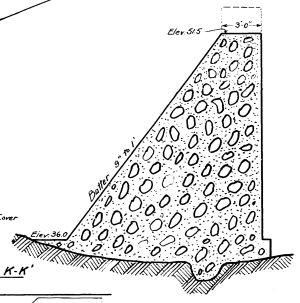


SECTION B-B'

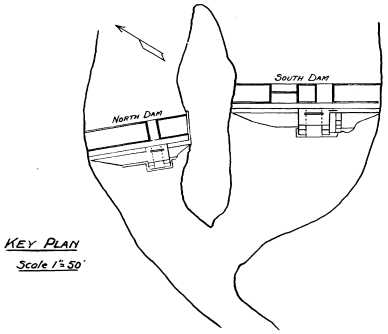


SECTION THRO' DECK K-K'

LONGITUDINAL SECTION OF DECK AT F-F'
Scale 1" = 2'



SECTION A-A'



KEY PLAN
Scale 1" = 50'

TRENT CANAL
RESERVOIR WATERS
— DRAG LAKE DAM —
SOUTH SIDE
LOT 23 CON. 7. DYSART TP.

Scale 1" = 5'

May 1920 Chas. Robertson

D-5-4072

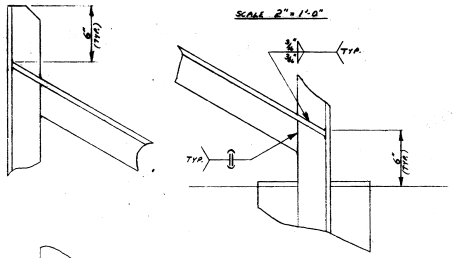
T-11-274.3

D-5-4072

47 - 3 - 3051 - P

BRACING DETAIL

SCALE 2" = 1'-0"

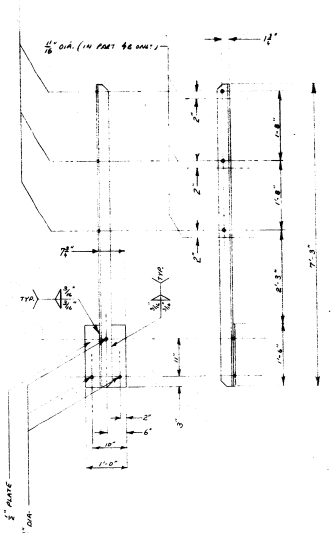


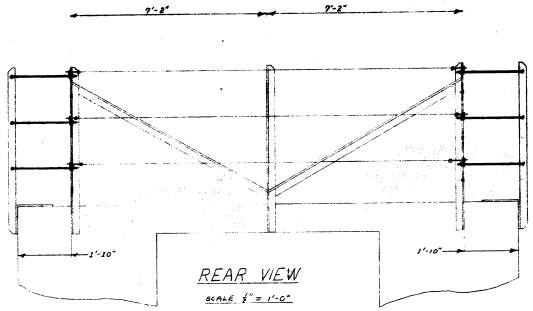
POST DETAIL (3, 3A, 4, 4A, 4B)

SCALE 3/4" = 1'-0"

PART 3A SHOWN. PART 4A IS SIMILAR, OPPOSITE HAND. PARTS 3, 4 SIMILAR TO 3A, 4A RESP., BUT NO CABLE HOLES. PART 4B SIMILAR TO 4A, EXCEPT THAT CABLE HOLES ARE PUNCHED 2" LOWER, FOR CORNER RODS.

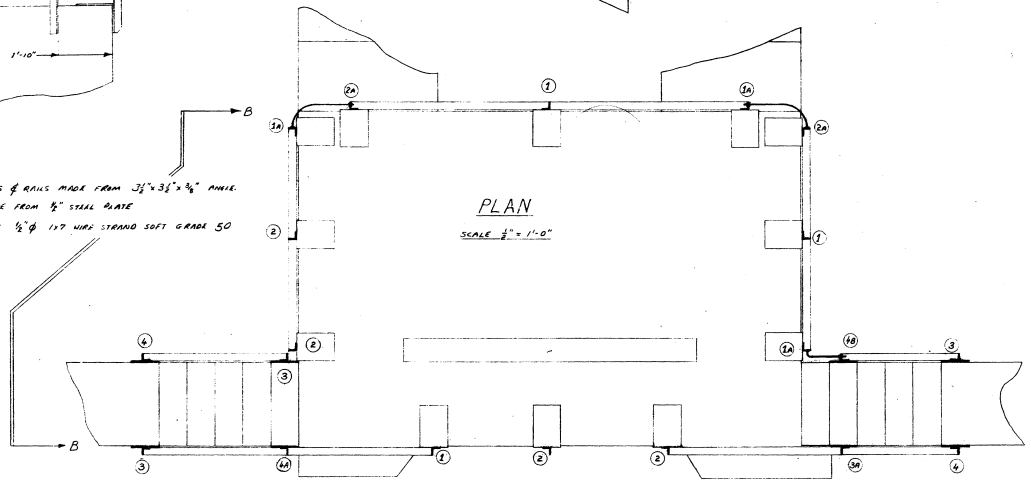
1⅛" CHAMFER AT ALL CORNERS ON POSTS





REAR VIEW

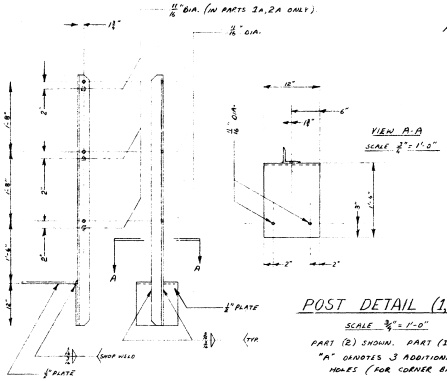
SCALE 1/2" = 1'-0"



PLAN

SCALE 1/2" = 1'-0"

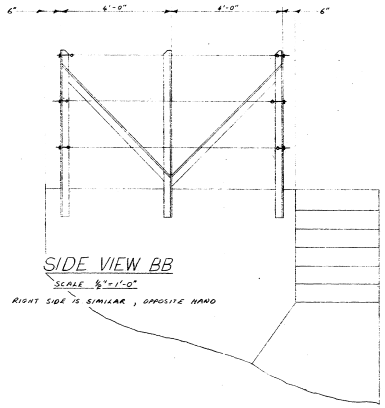
ALL POSTS, BRACES & RAILS MADE FROM 3½" x 3½" x ⅜" ANGLE.
BASEPLATES MADE FROM ½" STEEL PLATE
GUARD RAIL CABLE ½"ϕ 1x7 WIRE STRAND SOFT GRADE 50



POST DETAIL (1, 1A, 2, 2A)

SCALE 3/4" = 1'-0"

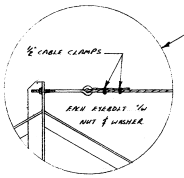
PART (2) SHOWN. PART (1) IS SIMILAR, OPPOSITE HAND. "A" DENOTES 3 ADDITIONAL 11/16" HOLES, 2" BELOW CABLE HOLES (FOR CORNER BARS).

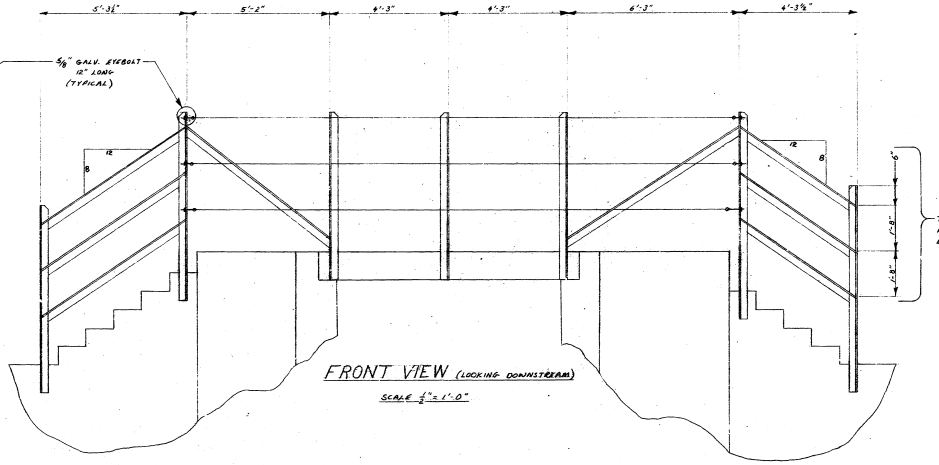


SIDE VIEW BB

SCALE 1/2" = 1'-0"

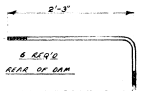
RIGHT SIDE IS SIMILAR, OPPOSITE HAND





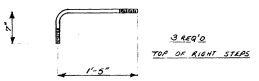
FRONT VIEW (LOOKING DOWNSTREAM)

SCALE 1/2" = 1'-0"



CORNER BAR DETAILS

SCALE 1" = 1'-0"



⅝" STEEL ROD. BENDING RADIUS 2" THREADED 4" EACH END: EACH PIECE ⅝" 4 NUTS & 4 WASHERS.

DEPARTMENT OF TRANSPORT

MARINE WORKS

CANALS DIVISION

TRENT CANAL SYSTEM

HANDRAILS - DRAG LAKE DAM

SCALE: AS SHOWN
DESIGN: P.G.M.
DRAWN: P.G.M.
CHECKED: C.J.S.

DATE: JAN 2/69

SUPERINTENDING ENGINEER

3730-G

T-14-172.1

DATE:	REVISIONS:	MADE:	CH'CK'D:

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Canning Lake Dam 1 (buried)**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	CR 17 and CR 10 intersection		
Topographic Map	031D15 (Minden)	Coordinates (dd/mm/ss)	N 44° 55' 56" W 78° 37' 58"
Drainage basin	Burnt River		
Name of watercourse	Drag River	Approximative elevation	- m
Name of lake / reservoir	Canning Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	1.40	m	Year of construction	-	
Height of the reservoir	-	m	Year of rehabilitation	-	
Length of structure	8.20	m	Drawings and/or specifications	-	
Area of the reservoir	-	ha			
Storage capacity	-	m^3	Classification (PCA)	Very Low	
Catchment area	-	km^2	Overall condition	-	
			Category	-	

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Canning Lake Dam 2 (Soyer, Grass)**	AMS Number :	**11400**
Comments / Description	Concrete Gravity Dam		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	CR 17 and CR 10 intersection		
Topographic Map	031D15 (Minden)	Coordinates (dd/mm/ss)	N 44° 55' 56"
			W 78° 37' 58"
Drainage basin	Burnt River		
Name of watercourse	Drag River	Approximative elevation	≈ 317 m
Name of lake / reservoir	Canning Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	4.58	m	Year of construction	1909
Height of the reservoir	3.50	m	Year of rehabilitation	-
Length of structure	39.93	m	Drawings and/or specifications	Available
Area of the reservoir	915	ha		
Storage capacity	≈ 30M	m^3	Classification (PCA)	Significant
Catchment area	-	km^2	Overall condition	B
			Category	Regulated Dam

Main use(s)	Navigation		
Replacement cost	20000	*according to AMS Data dating from :*	-
Deffered Maintenance	-		

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Long Lake Dam (& Miskwabi)**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Mink Road		
Topographic Map	-	Coordinates (dd/mm/ss)	N 45° 02' 26"
			W 78° 22' 36"
Drainage basin	Burnt River		
Name of watercourse	Burnt River	Approximative elevation	- m
Name of lake / reservoir	Long Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive	Phone	(705) 750-4407
	Peterborough, Ontario, K9J 6Z6	Cellular	(705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	4.70	m	Year of construction	1939
Height of the reservoir	-	m	Year of rehabilitation	-
Length of structure	30.20	m	Drawings and/or specifications	-
Area of the reservoir	335	ha		
Storage capacity	-	m^3	Classification (PCA)	Significant
Catchment area	-	km^2	Overall condition	-
			Category	-

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

Comments -

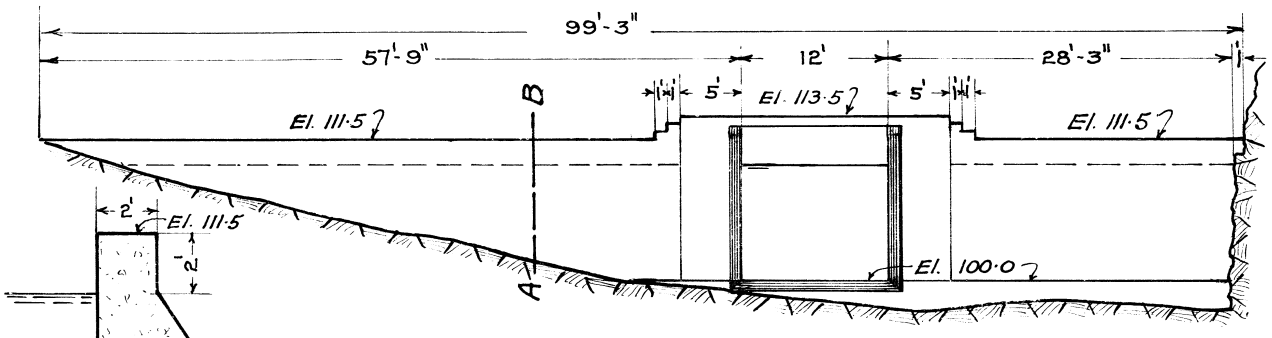
SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

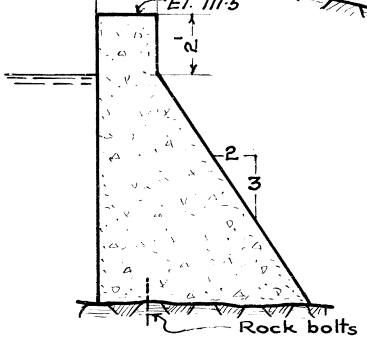
Comments -

Last Engineering inspection by : - Date : - -

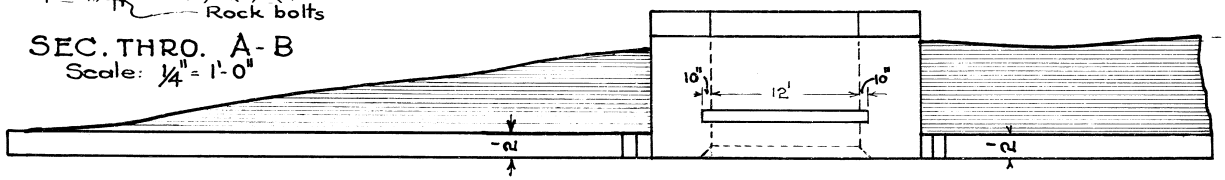
T.C.631-A



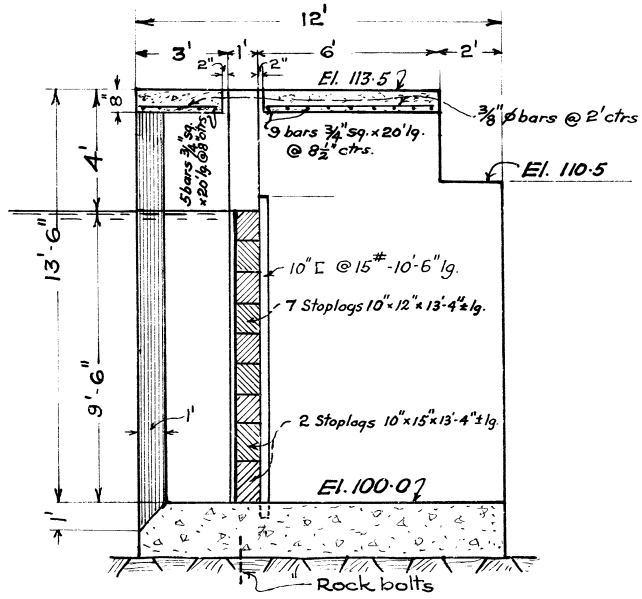
FRONT ELEVATION
Scale: 1" = 10'-0"



SEC. THRO. A-B
Scale: 1/4" = 1'-0"



PLAN
Scale: 1" = 10'-0"



SEC. THROUGH SLUICE
Scale 1/4" = 1'-0"

TRENT CANAL

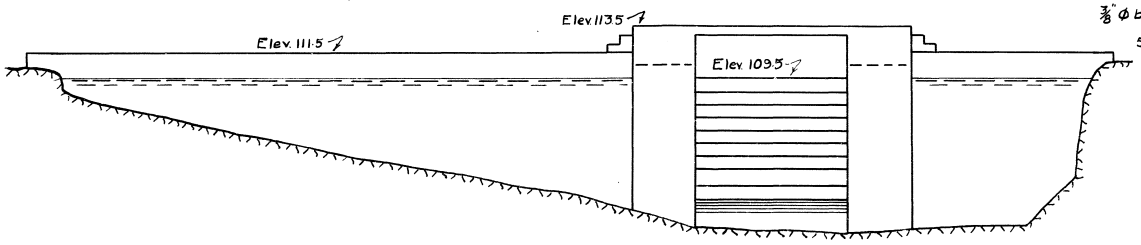
NEW CONCRETE DAM AT OUTLET OF LONG (MISKWABI) LAKE, LOT 4, CON. III, TWP. OF DUDLEY.

Scales as Indicated T-11-205.2

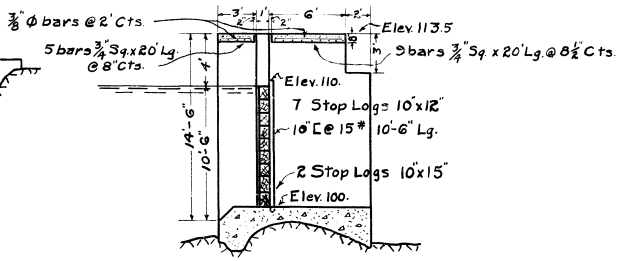
Peterborough, Ont, Nov. 8th, 1939 T.C. 631-A

AS BUILT IN 1939

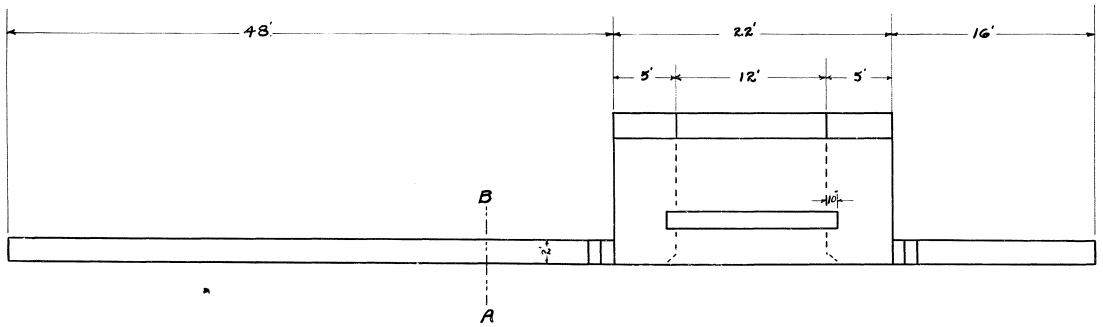
T.C. 515-A



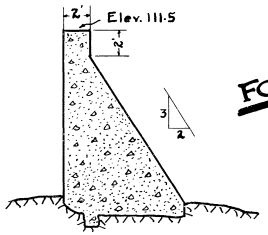
FRONT ELEVATION



SECTION THROUGH SLUICE



PLAN



SECTION AT A-B

FOR DAM AS BUILT SEE T.C.631.

TRENT CANAL

PROPOSED NEW CONCRETE DAM TO REPLACE EXISTING OLD TIMBER DAM AT OUTLET OF LONG (MISKWABI) LAKE

Lot 7 – Concession 4. Twp Dudley

Scale ⅛" = 1' T-11-205.1

Peterborough, Ont. Sept. 23 1938. T.C. 515-A

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Loon Lake Dam aka Dudman, Dudmon**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	West Side of Loon Lake		
Topographic Map	-	Coordinates (dd/mm/ss)	N 45° 01' 30" W 78° 24' 06"
Drainage basin	Burnt River		
Name of watercourse	Burnt River	Approximative elevation	- m
Name of lake / reservoir	Loon Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	4.60	m	Year of construction	1934	
Height of the reservoir	-	m	Year of rehabilitation	-	
Length of structure	32.00	m	Drawings and/or specifications	-	
Area of the reservoir	254	ha			
Storage capacity	-	m^3	Classification (PCA)	Low	
Catchment area	-	km^2	Overall condition	-	
			Category	-	

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

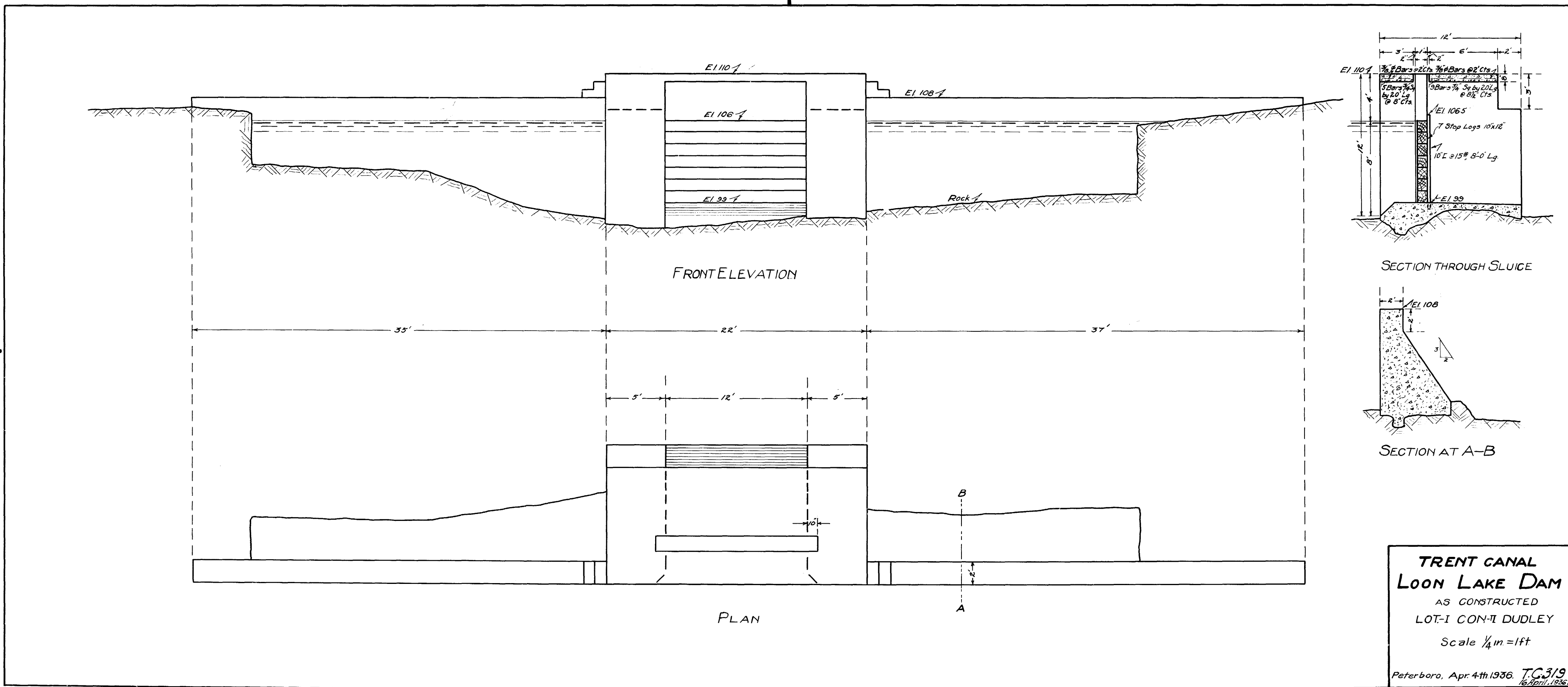
Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

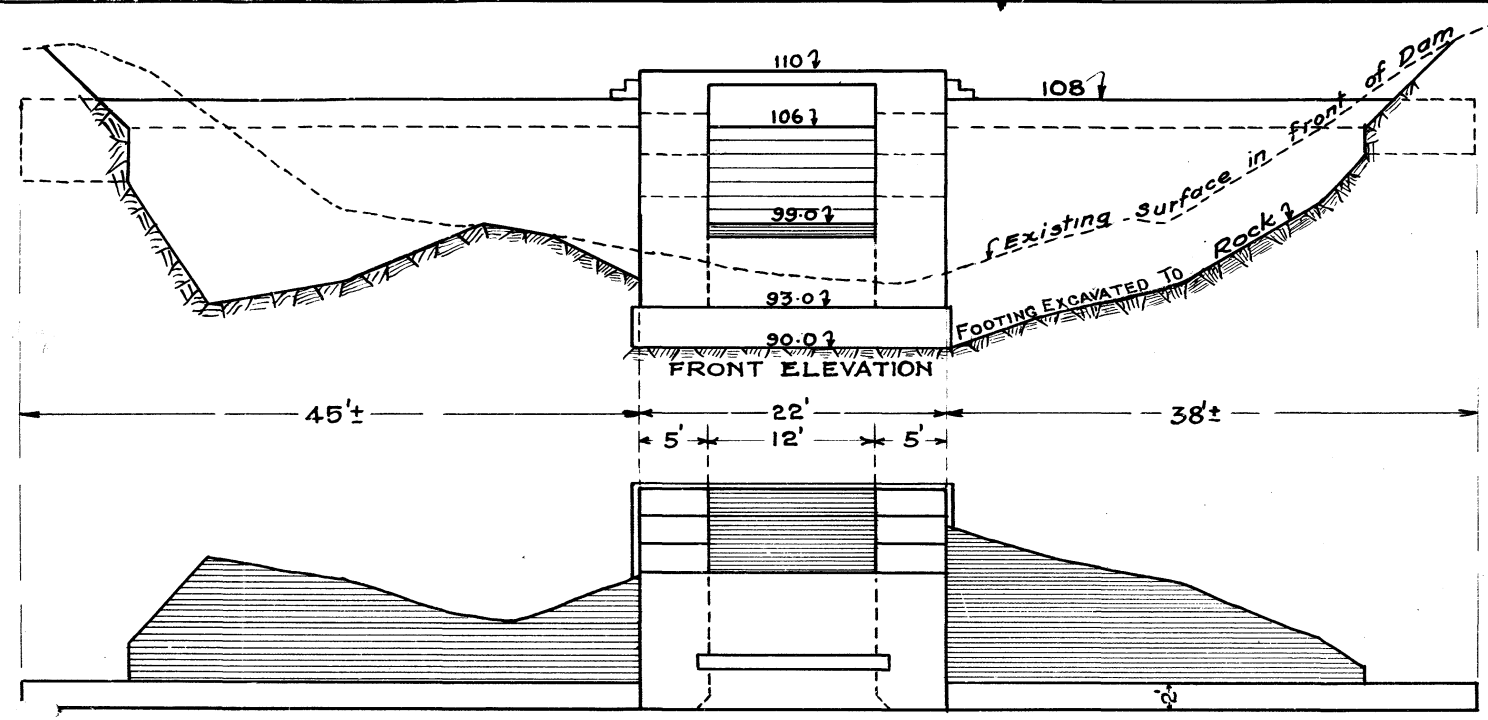
Comments -

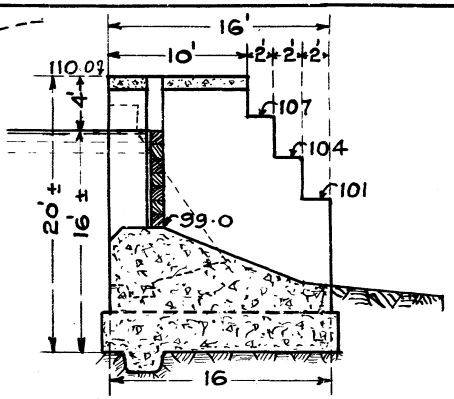
Last Engineering inspection by : - Date : - -

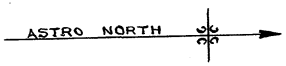


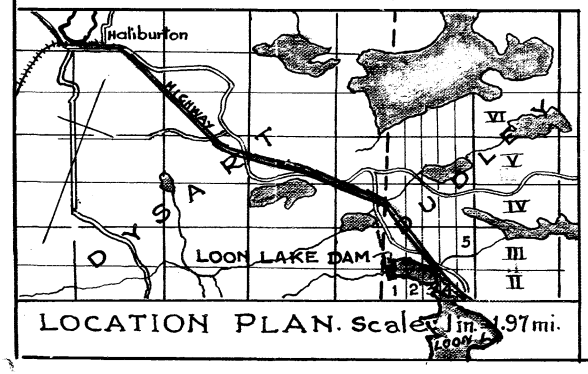
D-5-4089

T-11-260-3 D-5-4089









LOCATION PLAN. Scale 1 in. = 1.97 mi.

T-11-200.2

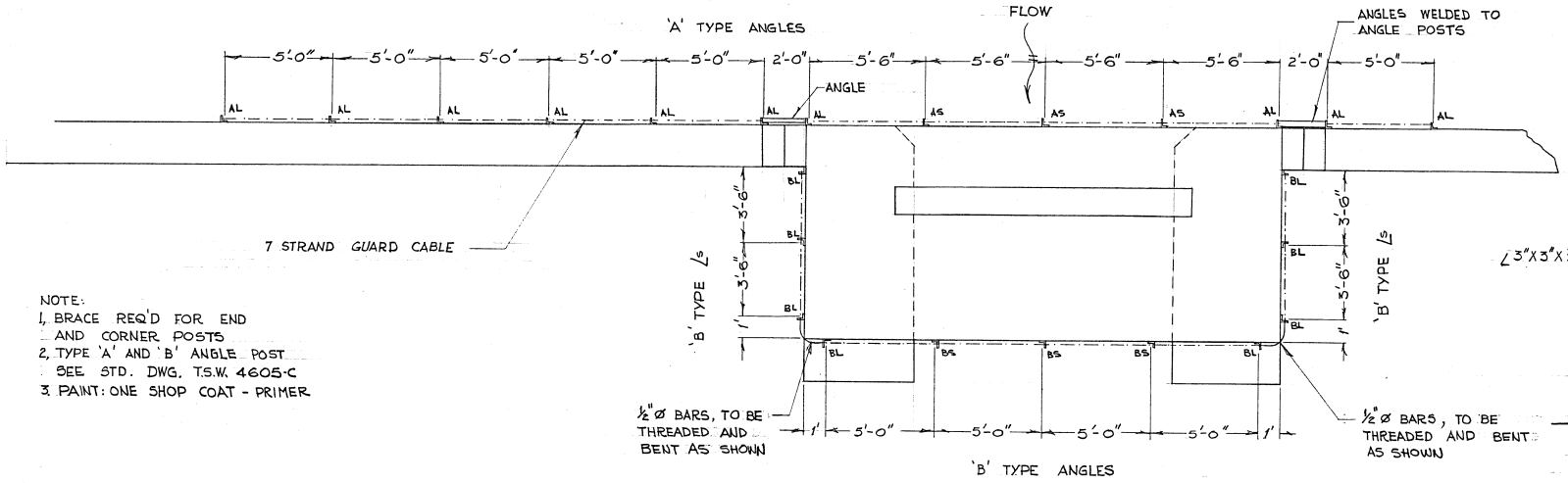
TRENT CANAL
LOON LAKE DAM
LOT 1 - CON II - DUDLEY
PROPOSED NEW CONCRETE DAM

Scale: 1" = 10'

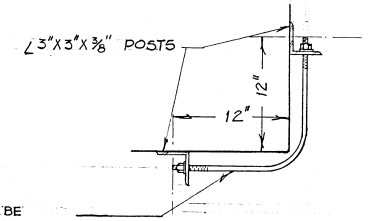
Peterboro, Oct. 29th. 1934

T.C. 216-A

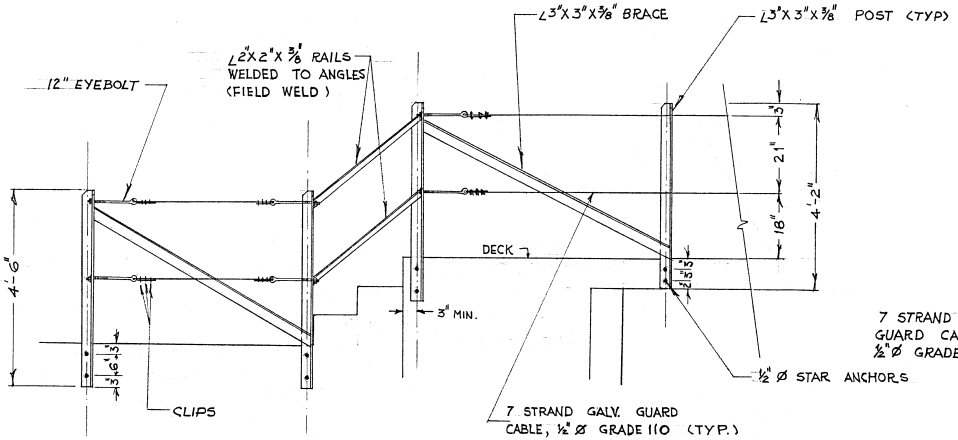
Fyle - 20-7



NOTE:
1. BRACE REQ'D FOR END AND CORNER POSTS
2. TYPE 'A' AND 'B' ANGLE POST SEE STD. DWG. T.S.W. 4605-C
3. PAINT: ONE SHOP COAT - PRIMER

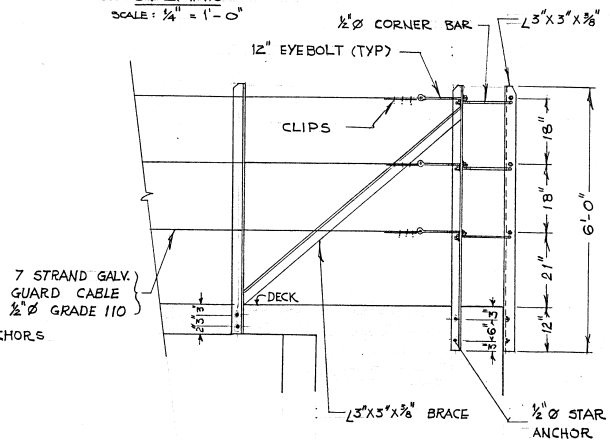


CORNER BAR DETAIL
(N.T.S.)



UP STREAM SIDE GUARD RAIL
SCALE: ½" = 1'-0"

PLAN
SCALE: ¼" = 1'-0"



DOWN STREAM SIDE GUARD RAIL DETAIL
SCALE: ½" = 1'-0"

Indian and Northern Affairs / Affaires Indiennes et du Nord — Parks Canada / Parcs Canada

TRENT-SEVERN WATERWAY

TITLE: INSTALLATION GUARD RAIL — LOON LAKE DAM

DRAWN BY: SWC
DESIGNED BY:
CHECKED BY:
RESPONSIBLE OFFICER:

SCALE: AS SHOWN
DATE: MAR./76

T.S.W. 4606-C

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Koshlong Lake Dam**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Universal Road		
Topographic Map	-	Coordinates (dd/mm/ss)	N 44° 57' 56"
			W 78° 31' 27"
Drainage basin	Burnt River		
Name of watercourse	Burnt River	Approximative elevation	- m
Name of lake / reservoir	Koshlong Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive	Phone	(705) 750-4407
	Peterborough, Ontario, K9J 6Z6	Cellular	(705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	4.70	m	Year of construction	1933
Height of the reservoir	-	m	Year of rehabilitation	-
Length of structure	32.00	m	Drawings and/or specifications	-
Area of the reservoir	405	ha		
Storage capacity	-	m^3	Classification (PCA)	Low
Catchment area	-	km^2	Overall condition	-
			Category	-

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

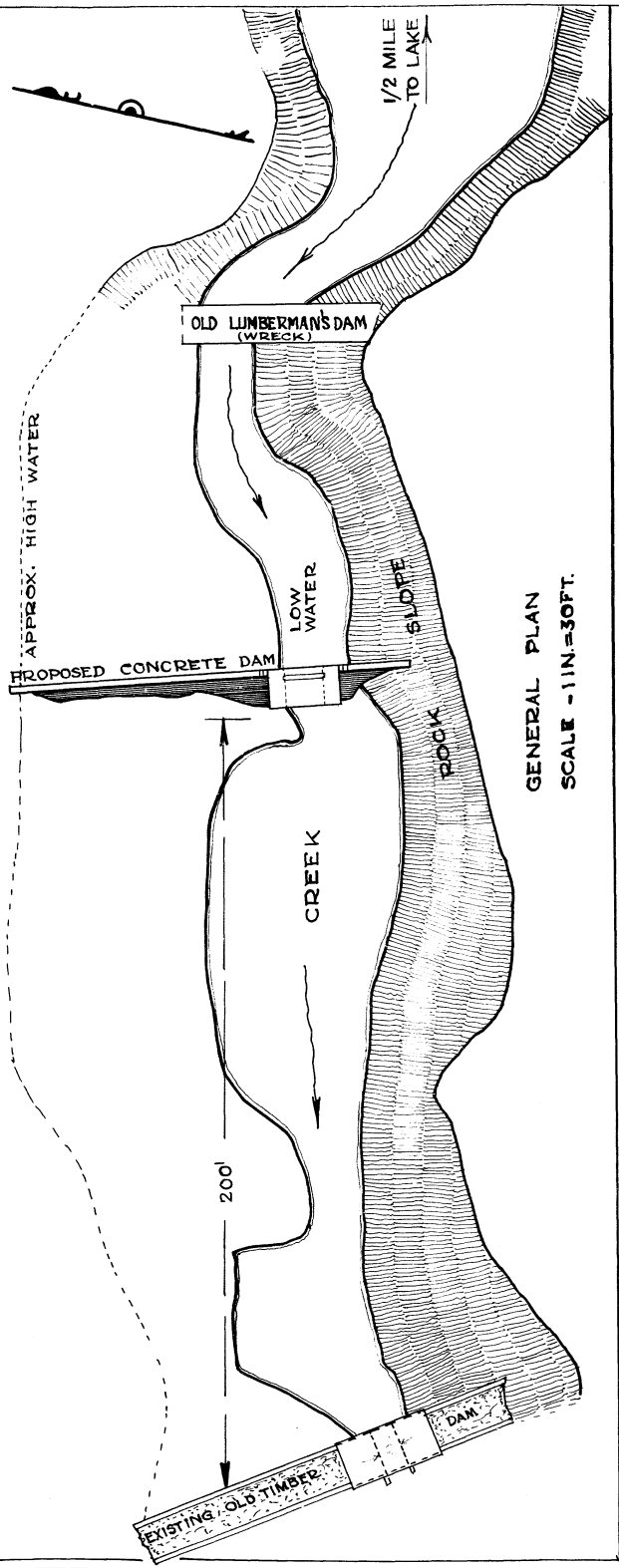
Comments -

SECTION X - REQUIRED DOCUMENTS

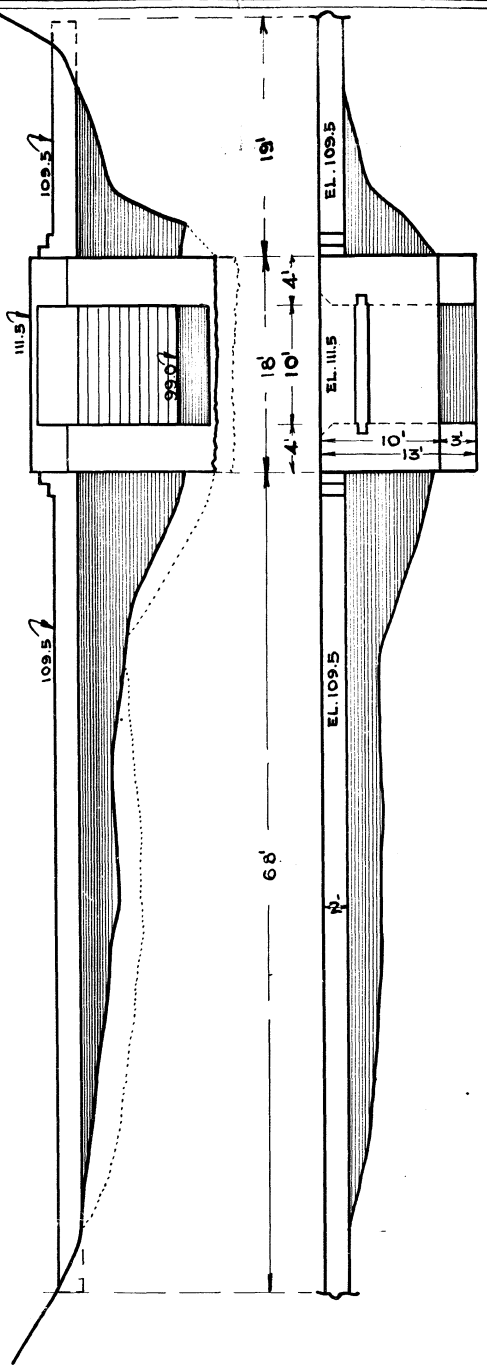
DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

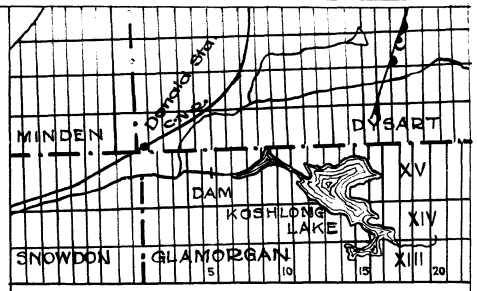
Last Engineering inspection by : - Date : - -



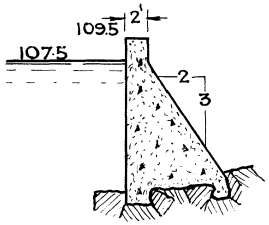
GENERAL PLAN
SCALE - 1 IN. = 30 FT.

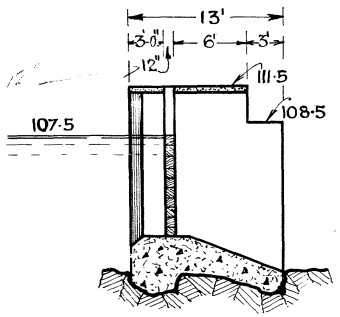


REAR ELEVATION AND PLAN
SCALE - 1 INCH = 10 FEET.



LOCATION PLAN
SCALE - 1 IN. = 2 MI.





CROSS SECTIONS
SCALE - 1 IN. = 10 FT.

T-11-254-1

Plan issued for construction.
See Final Cross Sections
4256-K-5

T.C.142-B
File ~~20-4~~.

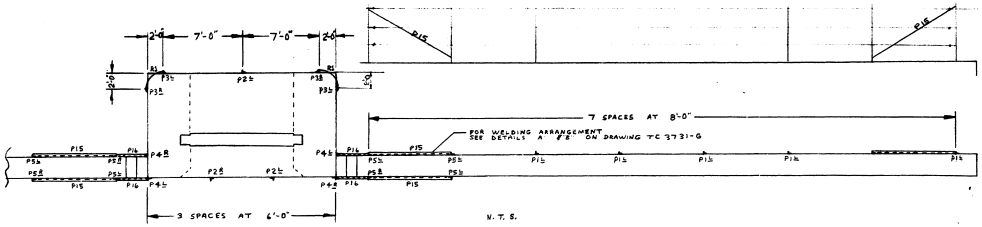
TRENT CANAL

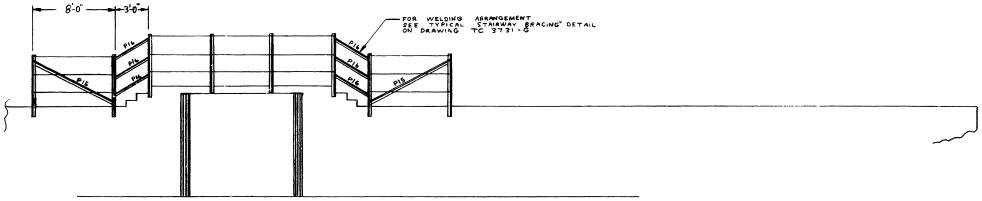
KOSHLONG LAKE DAM

Proposed Concrete Dam to replace old Timber Structure

LOT 5, CON. XV, GLAMORGAN.

Scales as shown - Peterborough Oct. 33





SCALE 3/16" = 1'-0"

6	ANGLE ASSEMBLIES REQUIRED	OPP. HAND	AND NOTED	MRK P1L
1	" " "	AS SHOWN	" "	MRK P2R
2	" " "	OPP. HAND	" "	MRK P2L
2	" " "	AS SHOWN	" "	MRK P3R
2	" " "	OPP. HAND	" "	MRK P3L
2	" " "	AS SHOWN	" "	MRK P4R
3	" " "	OPP. HAND	" "	MRK P4L
5	" " "	AS SHOWN	" "	MRK P5R
		OPP. HAND	" "	MRK P5L

6 RODS REQUIRED AS SHOWN AND NOTED MRK R1
48 - 5/8" ϕ X 12" LONG EYEBOLTS C/W NUT AND WASHER (GALVANIZED)
96 - 1/2" CABLE CLAMPS

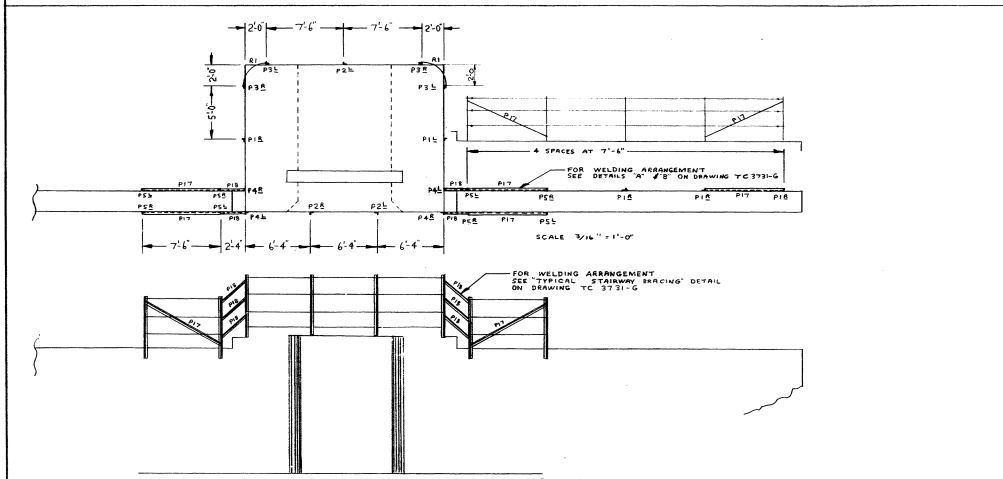
PLAIN MATERIAL :

5 PIECES REQUIRED 3 1/2" x 3 1/2" x 3/8" L
9'-7" LONG MRK P1E (CUT TO SUIT IN FIELD)

12 PIECES REQUIRED 2" X 2" x 1/4" L
4'-2" LONG MRK P16 (CUT TO SUIT IN FIELD)

450 -LIN. FT 1/2" ϕ 1 X 7 WIRE STRAND GUARD RAIL CABLE

DAM AT KOSHLONG LAKE



SCALE 3/16" = 1'-0"

4	ANGLE ASSEMBLIES REQUIRED	OPP. HAND	AND NOTED	MRK P1R
1	" " "	OPP. HAND	" "	MRK P1L
1	" " "	AS SHOWN	" "	MRK P2R
2	" " "	OPP. HAND	" "	MRK P2L
2	" " "	AS SHOWN	" "	MRK P3R
2	" " "	OPP. HAND	" "	MRK P3L
2	" " "	AS SHOWN	" "	MRK P4R
4	" " "	OPP. HAND	" "	MRK P4L
4	" " "	AS SHOWN	" "	MRK P5R
4	" " "	OPP. HAND	" "	MRK P5L

6 RODS REQUIRED AS SHOWN AND NOTED MRK R1
48 - 5/8" ϕ X 12" LONG EYEBOLTS C/W NUT AND WASHER (GALVANIZED)
96 - 1/2" CABLE CLAMPS

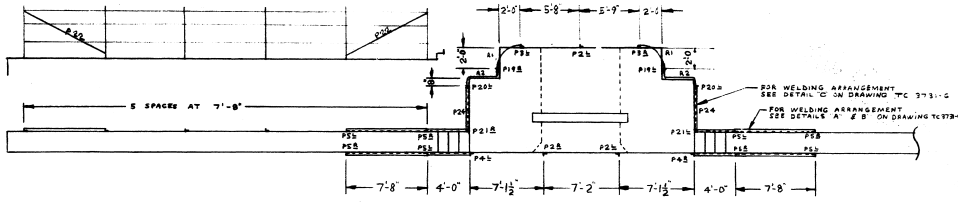
PLAIN MATERIAL :

5 PIECES REQUIRED 3 1/2" X 3 1/2" X 3/8" L
9'-0" LONG MRK P17 (CUT TO SUIT IN FIELD)

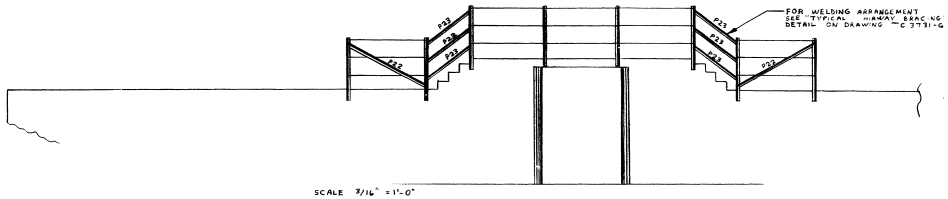
12 PIECES REQUIRED 2" X 2" X 1/4" L
3'-7" LONG MRK P18 (CUT TO SUIT IN FIELD)

390 -LIN. FT. 1/2" ϕ 1 X 7 WIRE STRAND GUARD RAIL CABLE

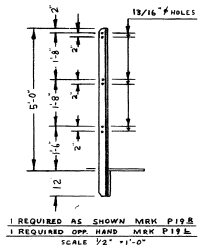
DAM AT FARQUHAR LAKE



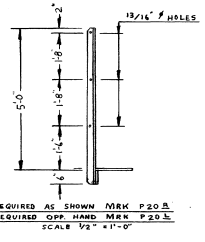
SCALE 3/16" = 1'-0"



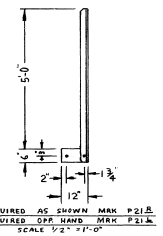
SCALE 3/16" = 1'-0"



1 REQUIRED AS SHOWN MRK P19R
1 REQUIRED OPP. HAND MRK P19L
SCALE 1/2" = 1'-0"



1 REQUIRED AS SHOWN MRK P20R
1 REQUIRED OPP. HAND MRK P20L
SCALE 1/2" = 1'-0"



1 REQUIRED AS SHOWN MRK P21R
1 REQUIRED OPP. HAND MRK P21L
SCALE 1/2" = 1'-0"

4	ANGLE ASSEMBLIES REQUIRED	OPP. HAND	AND NOTED	MRK P1L
1	" " "	AS SHOWN	" "	MRK P2R
2	" " "	OPP. HAND	" "	MRK P2L
1	" " "	AS SHOWN	" "	MRK P3R
1	" " "	OPP. HAND	" "	MRK P3L
1	" " "	AS SHOWN	" "	MRK P4R
1	" " "	OPP. HAND	" "	MRK P4L
4	" " "	AS SHOWN	" "	MRK P5R
4	" " "	OPP. HAND	" "	MRK P5L

6 RODS REQUIRED AS SHOWN MRK R1
6 RODS REQUIRED AS SHOWN MRK R2
96 -5/8" ϕ X 12" LONG EYEBOLTS C/W NUT AND WASHER (GALVANIZED)
72 - 1/2" CABLE CLAMPS
350 -LIN. FT. 1/2" ϕ 1 X 7 WIRE STRAND GUARD RAIL CABLE

PLAIN MATERIAL :

5 PIECES REQUIRED 3 1/2" x 3 1/2" X 3/8" L
9'-3" LONG MRK P22 (CUT TO SUIT IN FIELD)

12 PIECES REQUIRED 2" X 2" X 1/4" L
5'-6" LONG MRK P23 (CUT TO SUIT IN FIELD)

6 PIECES REQUIRED 2" X 2" X 1/4" L
4'-10" LONG MRK P24 (CUT TO SUIT IN FIELD)

DAM AT SWAMP LAKE

SHEET 2 OF 6
WORK THIS DRAWING WITH T.C. 3731-G

ALL HOLES 11/16" ϕ UNLESS OTHERWISE NOTED
ALL ANGLES 3 1/2" X 3 1/2" X 3/8" UNLESS OTHERWISE NOTED
PAINT - ONE SHOP COAT

DEPARTMENT OF TRANSPORT

MARINE WORKS
CANALS DIVISION
TRENT CANAL SYSTEM

GUARD RAILS FOR :
DAM AT KOSHLONG LAKE
DAM AT FARQUHAR LAKE
DAM AT SWAMP LAKE

SCALE: AS NOTED
DESIGN: J F P
DRAWN: J F P
CHECKED: C. J. S.

DATE: JAN 31/69

SUPERINTENDING ENGINEER

T.C. 3732-G

DATE:	REVISIONS:	MADE:	CH'CK'D:

T-14-173.2

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Farquhar Lake Dam**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Osborne Lane		
Topographic Map	-	Coordinates (dd/mm/ss)	N 45° 03' 47" W 78° 12' 38"
Drainage basin	Burnt River		
Name of watercourse	Irondale River	Approximative elevation	- m
Name of lake / reservoir	Farquhar Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	6.60	m	Year of construction	1929	
Height of the reservoir	-	m	Year of rehabilitation	-	
Length of structure	26.50	m	Drawings and/or specifications	-	
Area of the reservoir	345	ha			
Storage capacity	-	m^3	Classification (PCA)	High A	
Catchment area	-	km^2	Overall condition	-	
			Category	-	

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

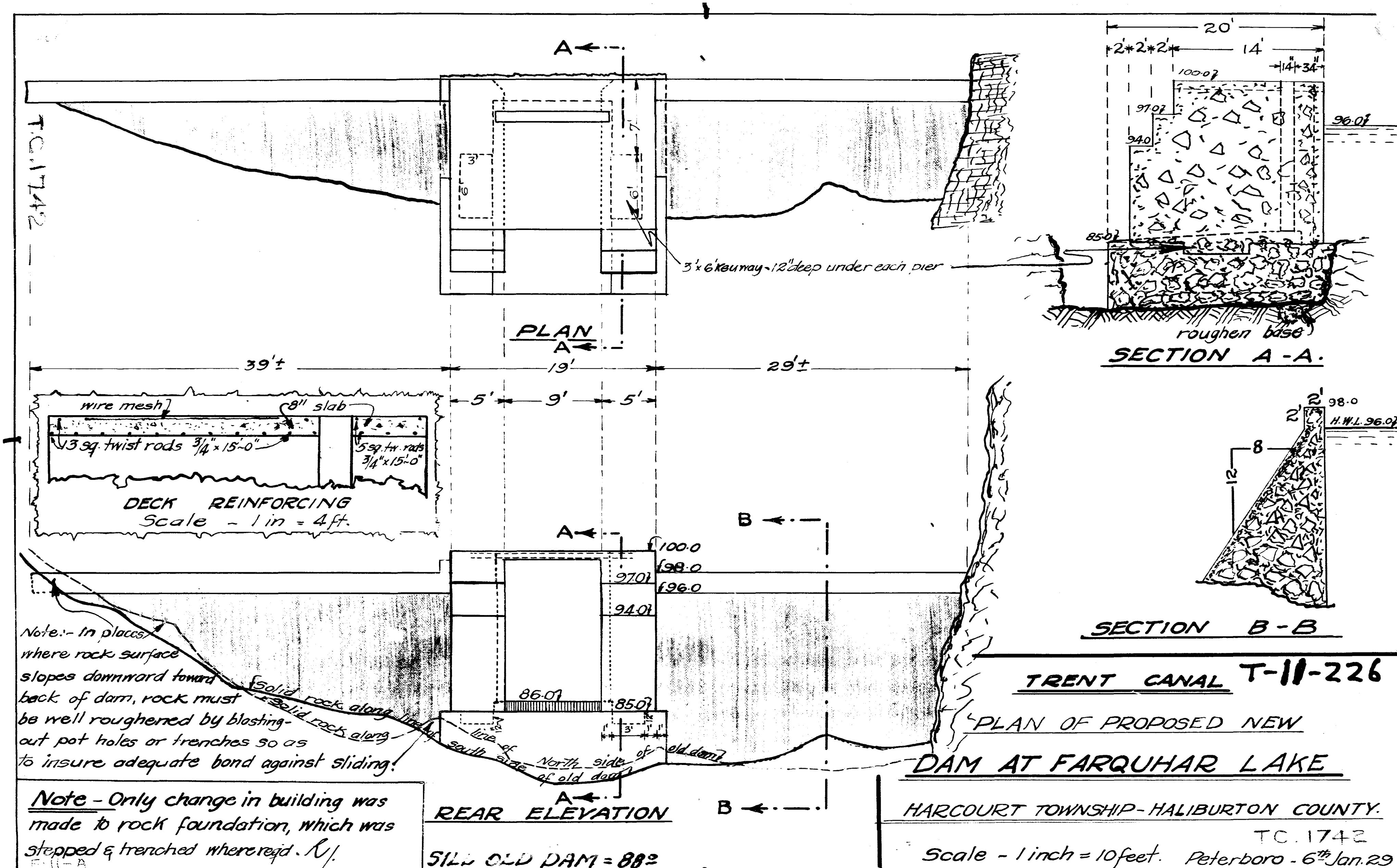
Comments -

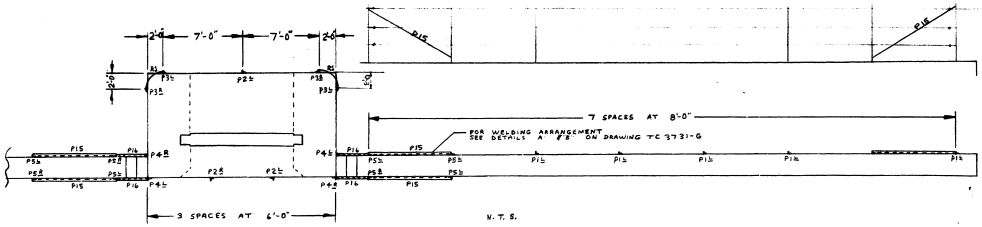
SECTION X - REQUIRED DOCUMENTS

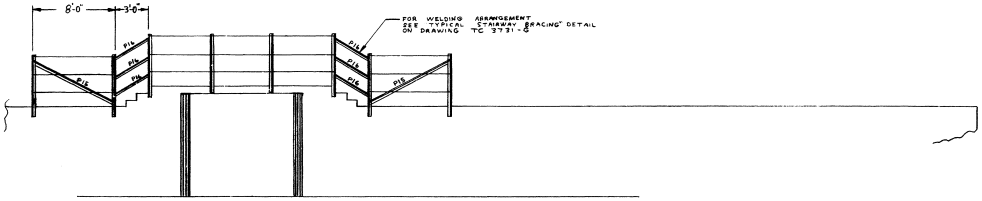
DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -


TRENT CANAL T-11-226
PLAN OF PROPOSED NEW
DAM AT FARQUHAR LAKE
HARCOURT TOWNSHIP - HALIBURTON COUNTY.
T.C. 1742
Scale - 1 inch = 10 feet. Peterboro - 6th Jan. 29
PLAN
3'x 6' keyway - 12" deep under each pier
SECTION A-A.
roughen base
20'
2' 2' 2' 14'
14" 34"
100.0
97.0
96.0
94.0
85.0
SECTION B-B
98.0
H.W.L. 96.0
39'±
19'
29'±
5'
9'
5'
DECK REINFORCING
Scale - 1 in = 4 ft.
wire mesh
8" slab
3 sq. twist rods 3/4" x 15'-0"
5 sq. tw. rods 3/4" x 15'-0"
REAR ELEVATION
86.0
Solid rock along line of south side of old dam
Solid rock along line of North side of old dam
Note:- In places where rock surface slopes downward toward back of dam, rock must be well roughened by blasting-out pot holes or trenches so as to insure adequate bond against sliding.
Note - Only change in building was made to rock foundation, which was stepped & trenched where reqd.
SILL OLD DAM = 88.0
T.C. 1742





SCALE 3/16" = 1'-0"

6	ANGLE ASSEMBLIES REQUIRED	OPP. HAND	AND NOTED	MRK P1L
1	" " "	AS SHOWN	" "	MRK P2R
2	" " "	OPP. HAND	" "	MRK P2L
2	" " "	AS SHOWN	" "	MRK P3R
2	" " "	OPP. HAND	" "	MRK P3L
2	" " "	AS SHOWN	" "	MRK P4R
3	" " "	OPP. HAND	" "	MRK P4L
5	" " "	AS SHOWN	" "	MRK P5R
		OPP. HAND	" "	MRK P5L

6 RODS REQUIRED AS SHOWN AND NOTED MRK R1
48 - 5/8" ϕ X 12" LONG EYEBOLTS C/W NUT AND WASHER (GALVANIZED)
96 - 1/2" CABLE CLAMPS

PLAIN MATERIAL :

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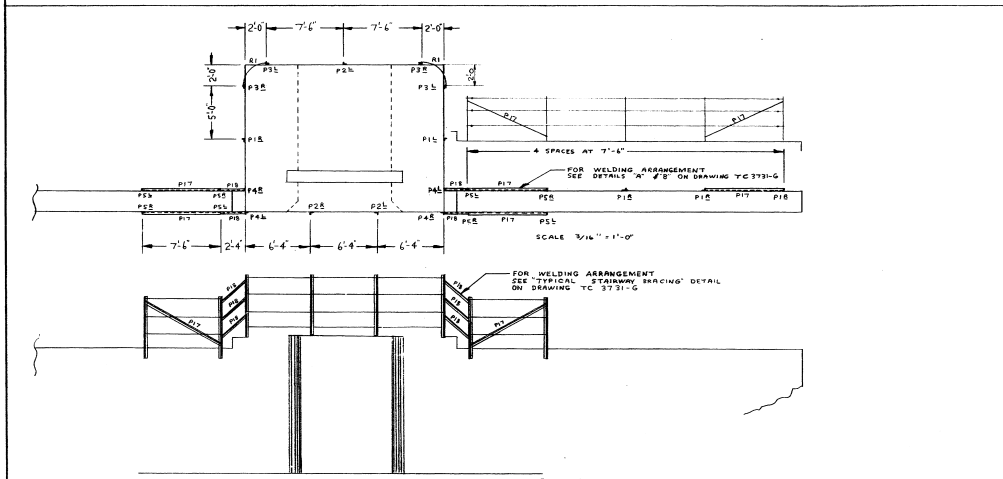
9'-7" LONG MRK P1E (CUT TO SUIT IN FIELD)

12 PIECES REQUIRED 2" X 2" x 1/4" L
4'-2" LONG MRK P16 (CUT TO SUIT IN FIELD)

450 -LIN. FT 1/2" ϕ 1 X 7 WIRE STRAND GUARD RAIL CABLE

DAM AT KOSHLONG LAKE



SCALE 3/16" = 1'-0"

4	ANGLE ASSEMBLIES REQUIRED	OPP. HAND	AND NOTED	MRK P1R
1	" " "	OPP. HAND	" "	MRK P1L
1	" " "	AS SHOWN	" "	MRK P2R
2	" " "	OPP. HAND	" "	MRK P2L
2	" " "	AS SHOWN	" "	MRK P3R
2	" " "	OPP. HAND	" "	MRK P3L
2	" " "	AS SHOWN	" "	MRK P4R
4	" " "	OPP. HAND	" "	MRK P4L
4	" " "	AS SHOWN	" "	MRK P5R
4	" " "	OPP. HAND	" "	MRK P5L

6 RODS REQUIRED AS SHOWN AND NOTED MRK R1
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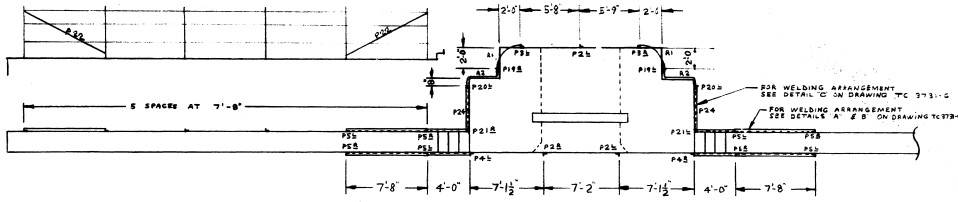
9'-0" LONG MRK P17 (CUT TO SUIT IN FIELD)

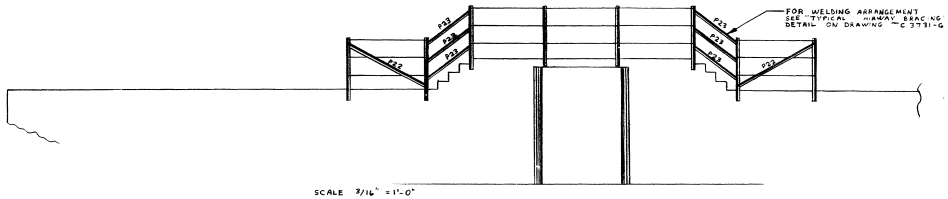
12 PIECES REQUIRED 2" X 2" X 1/4" L
3'-7" LONG MRK P18 (CUT TO SUIT IN FIELD)

390 -LIN. FT. 1/2" ϕ 1 X 7 WIRE STRAND GUARD RAIL CABLE

DAM AT FARQUHAR LAKE



SCALE 3/16" = 1'-0"



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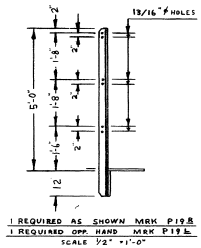
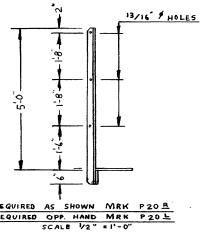
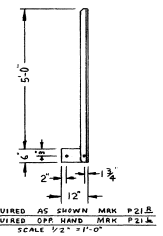


1 REQUIRED AS SHOWN MRK P19R
1 REQUIRED OPP. HAND MRK P19L
SCALE 1/2" = 1'-0"



1 REQUIRED AS SHOWN MRK P20R
1 REQUIRED OPP. HAND MRK P20L
SCALE 1/2" = 1'-0"



1 REQUIRED AS SHOWN MRK P21R
1 REQUIRED OPP. HAND MRK P21L
SCALE 1/2" = 1'-0"

4	ANGLE ASSEMBLIES REQUIRED	OPP. HAND	AND NOTED	MRK P1L
1	" " "	AS SHOWN	" "	MRK P2R
2	" " "	OPP. HAND	" "	MRK P2L
1	" " "	AS SHOWN	" "	MRK P3R
1	" " "	OPP. HAND	" "	MRK P3L
1	" " "	AS SHOWN	" "	MRK P4R
1	" " "	OPP. HAND	" "	MRK P4L
4	" " "	AS SHOWN	" "	MRK P5R
4	" " "	OPP. HAND	" "	MRK P5L

6 RODS REQUIRED AS SHOWN MRK R1
6 RODS REQUIRED AS SHOWN MRK R2
96 -5/8" ϕ X 12" LONG EYEBOLTS C/W NUT AND WASHER (GALVANIZED)
72 - 1/2" CABLE CLAMPS
350 -LIN. FT. 1/2" ϕ 1 X 7 WIRE STRAND GUARD RAIL CABLE

PLAIN MATERIAL :

5 PIECES REQUIRED 3 1/2" x 3 1/2" X 3/8" L
9'-3" LONG MRK P22 (CUT TO SUIT IN FIELD)

12 PIECES REQUIRED 2" X 2" X 1/4" L
5'-6" LONG MRK P23 (CUT TO SUIT IN FIELD)

6 PIECES REQUIRED 2" X 2" X 1/4" L
4'-10" LONG MRK P24 (CUT TO SUIT IN FIELD)

DAM AT SWAMP LAKE

SHEET 2 OF 6
WORK THIS DRAWING WITH T.C. 3731-G

ALL HOLES 11/16" ϕ UNLESS OTHERWISE NOTED
ALL ANGLES 3 1/2" X 3 1/2" X 3/8" UNLESS OTHERWISE NOTED
PAINT - ONE SHOP COAT

DEPARTMENT OF TRANSPORT

MARINE WORKS
CANALS DIVISION
TRENT CANAL SYSTEM

GUARD RAILS FOR :
DAM AT KOSHLONG LAKE
DAM AT FARQUHAR LAKE
DAM AT SWAMP LAKE

SCALE: AS NOTED
DESIGN: J F P
DRAWN: J F P
CHECKED: C. J. S.

DATE: JAN 31/69

SUPERINTENDING ENGINEER

T.C. 3732-G

DATE:	REVISIONS:	MADE:	CH'CK'D:

T-14-173.2

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Pusey Lake Dam (& Grace)**	AMS Number :	**11400**
Comments / Description	Concrete Gravity Dam		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Dark Lake Rd via CR 4 and CR 648 intersection		
Topographic Map	031E01 (Wilberforce)	Coordinates (dd/mm/ss)	N 45° 02' 19" W 78° 13' 10"
Drainage basin	Burnt River		
Name of watercourse	Irondale River	Approximative elevation	≈ 380 m
Name of lake / reservoir	Pusey Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	2.83	m	Year of construction	1930	
Height of the reservoir	2.50	m	Year of rehabilitation	-	
Length of structure	53.33	m	Drawings and/or specifications	Available	
Area of the reservoir	295	ha			
Storage capacity	≈ 7M	m^3	Classification (PCA)	High A	
Catchment area	-	km^2	Overall condition	A	
			Category	Regulated Dam	

Main use(s): Navigation

Replacement cost: 79500 *according to AMS Data dating from :* 1997

Deffered Maintenance: -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

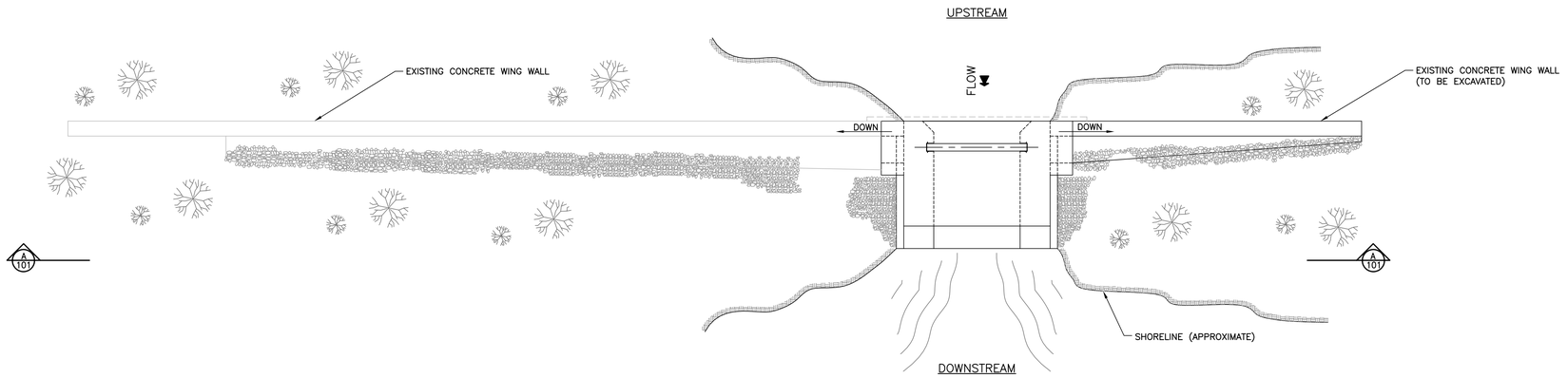
Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

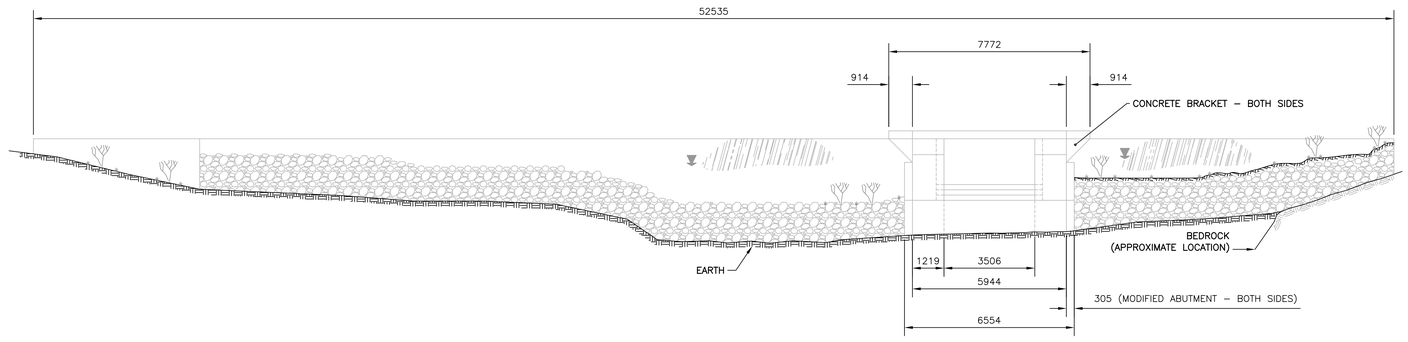
Last Engineering inspection by : - Date : - -



PLAN VIEW OF EXISTING ARRANGEMENT

SCALE 1:100

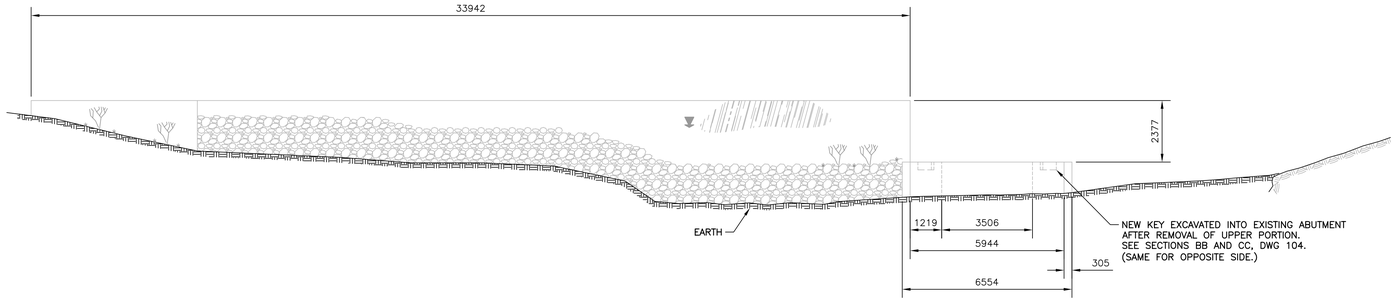
(SEE DWG 102 FOR MODIFIED ARRANGEMENT)



AA / 101 ELEVATION

SCALE 1=100

(DOWNSTREAM – EXISTING ARRANGEMENT)



AA / 101 ELEVATION

SCALE 1=100

(DOWNSTREAM – REPEAT ELEVATION SHOWING REQUIRED EXCAVATION TO EXISTING ARRANGEMENT)

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

Real Property Services Canadian Heritage/ Environment Canada/ Parks Canada / Services d'immobiliers du Patrimoine canadien / Environnement Canada/ Parcs Canada

Heritage Canals and Engineering Works National Centre of Expertise / Canaux historiques et travaux d'ingenierie Centre d'expertise national

Canada

Project title / Titre du projet

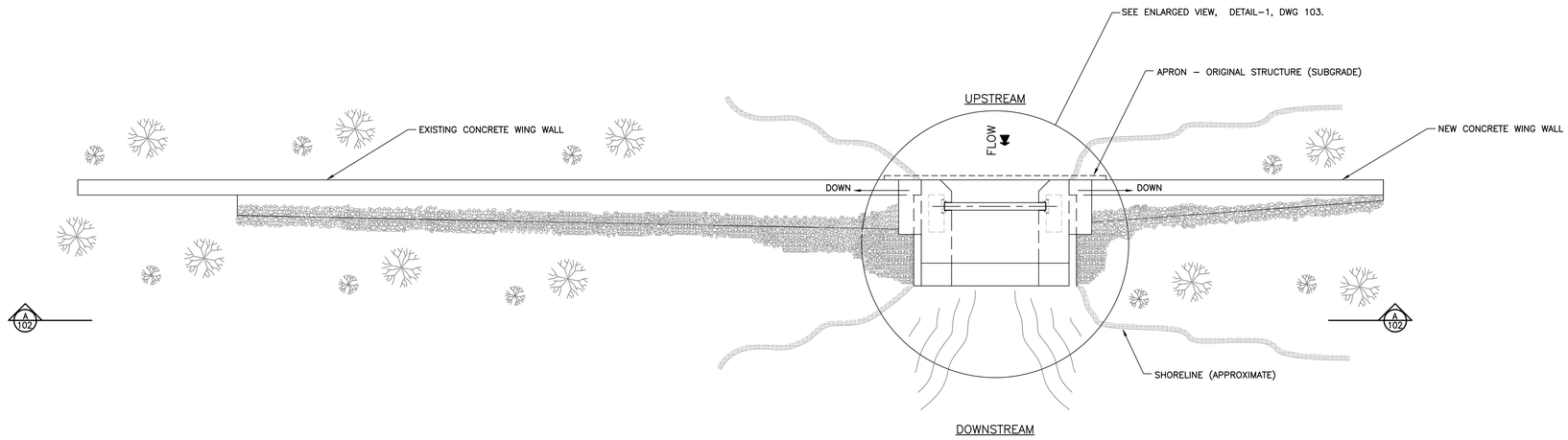
TRENT–SEVERN WATERWAY
PUSEY LAKE DAM
REHABILITATION

Drawing title / Titre du dessin

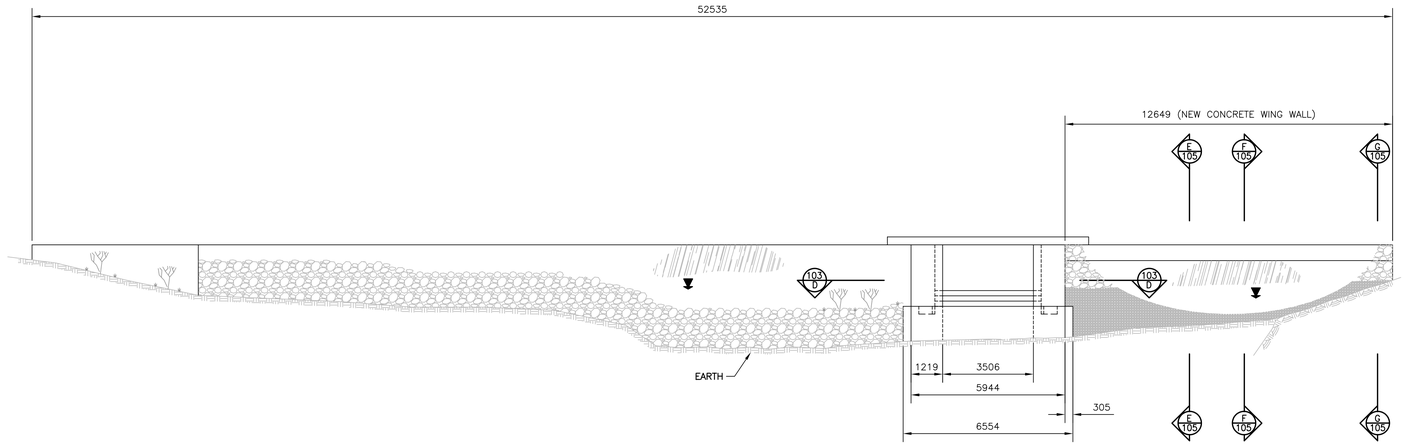
PLAN
AND ELEVATION
(EXISTING ARRANGEMENT)

Scale / Échelle: AS NOTED	
Drawn by/ Dessiné par: A. FARRELL	Date: SEPTEMBER 2007
Designed by/ Conçu par: L. BERIAULT	Date: SEPTEMBER 2007
Approved by / Approuvé par: J. MAZHAR	Date: SEPTEMBER 2007
Project No./No. du projet: 310941	Client No./No du Client:
Drawing Reference No./Numéro de Référence du Dessin: COTSW 07/R23	Sheet No./ Feuille No.: 101

TIME PLOTTED PM
DATE PLOTTED 18/09/07
PERSON PLOTTING A.C.F.
SCALE OF PLOT 1=1
VIEW PLOTTED EXTENTS
DRAWING NAME PLD101



PLAN VIEW OF MODIFIED ARRANGEMENT
SCALE 1:100
(SEE DWG 101 FOR EXISTING ARRANGEMENT)



AA 102 ELEVATION
SCALE 1=100
(DOWNSTREAM – MODIFIED ARRANGEMENT)

No.	Date	Description	Drawn by Dessine par	Approved Approuve

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
Real Property Services Canadian Heritage/ Environment Canada/ Parks Canada / Services d'immobiliers du Patrimoine canadien / Environnement Canada/ Parcs Canada
Heritage Canals and Engineering Works National Centre of Expertise / Canaux historiques et travaux d'ingenierie Centre d'expertise national
Canada

Project title / Titre du projet

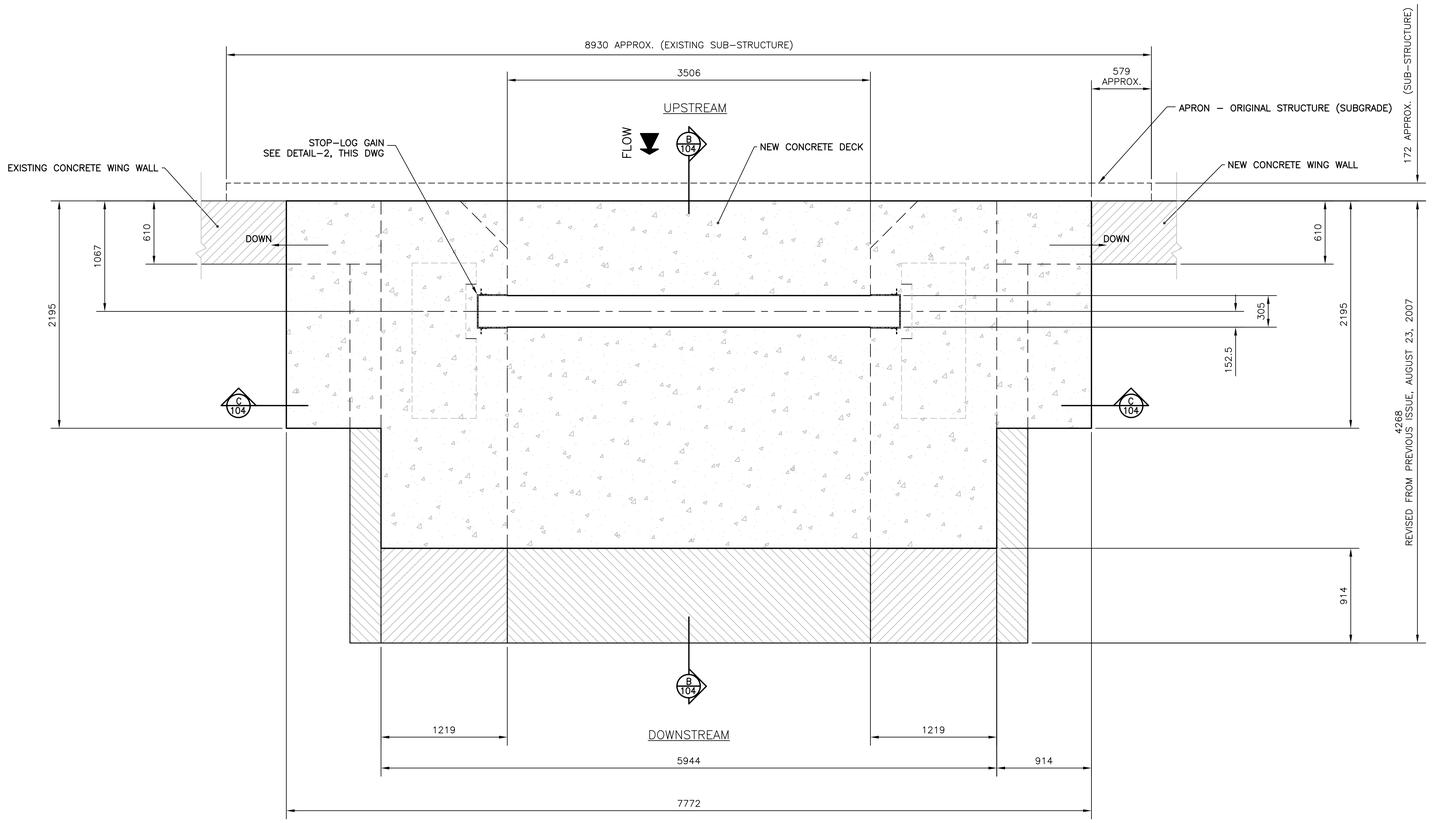
TRENT–SEVERN WATERWAY
PUSEY LAKE DAM
REHABILITATION

Drawing title / Titre du dessin

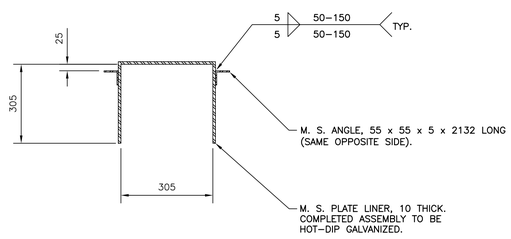
PLAN
AND ELEVATION
(MODIFIED ARRANGEMENT)

Scale / Échelle	AS NOTED
Drawn by/ Dessiné par	A. FARRELL
Date	SEPTEMBER 2007
Designed by/ Conçu par	L. BERIAULT
Date	SEPTEMBER 2007
Approved by / Approuvé par	J. MAZHAR
Date	SEPTEMBER 2007
Project No./No. du projet	310941
Client No./No du Client	
Sheet No./ Feuille No.	102
Drawing Reference No./Numéro de Référence du Dessin	COTSW 07/R23

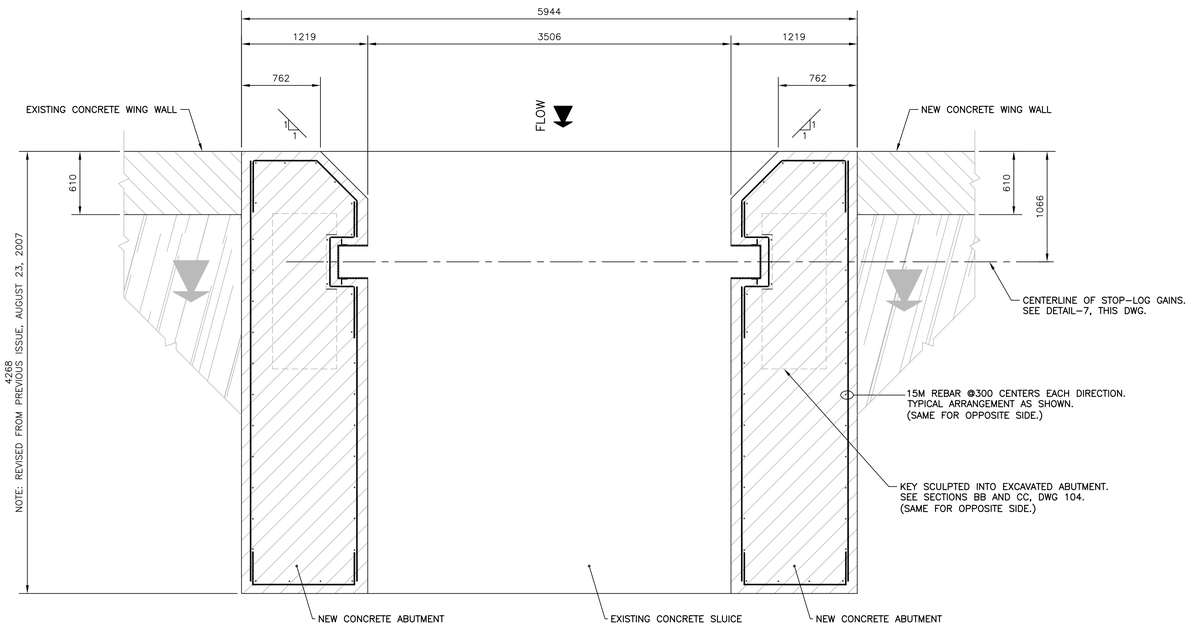
DRAWING NAME PLD102 VIEW PLOTTED EXTENTS SCALE OF PLOT 1=1 PERSON PLOTTING A.C.F. DATE PLOTTED 18/09/07 TIME PLOTTED PM



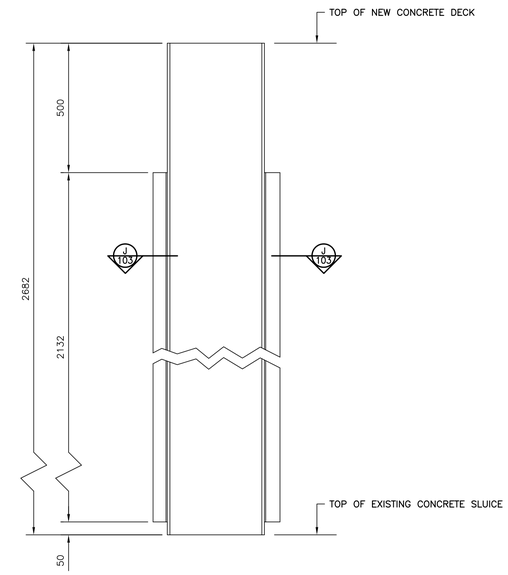
1/102 DETAIL
SCALE 1=25



JJ/103 SECTION
SCALE 1=10



DD/102 SECTION
SCALE 1=25



2/103 DETAIL
SCALE 1=10

NOTE: TYPICAL CONCRETE COVER TO BE 75 mm UNLESS NOTED OTHERWISE.

No.	Date	Description	Drawn by Dessine par	Approved Approuve
		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 _____

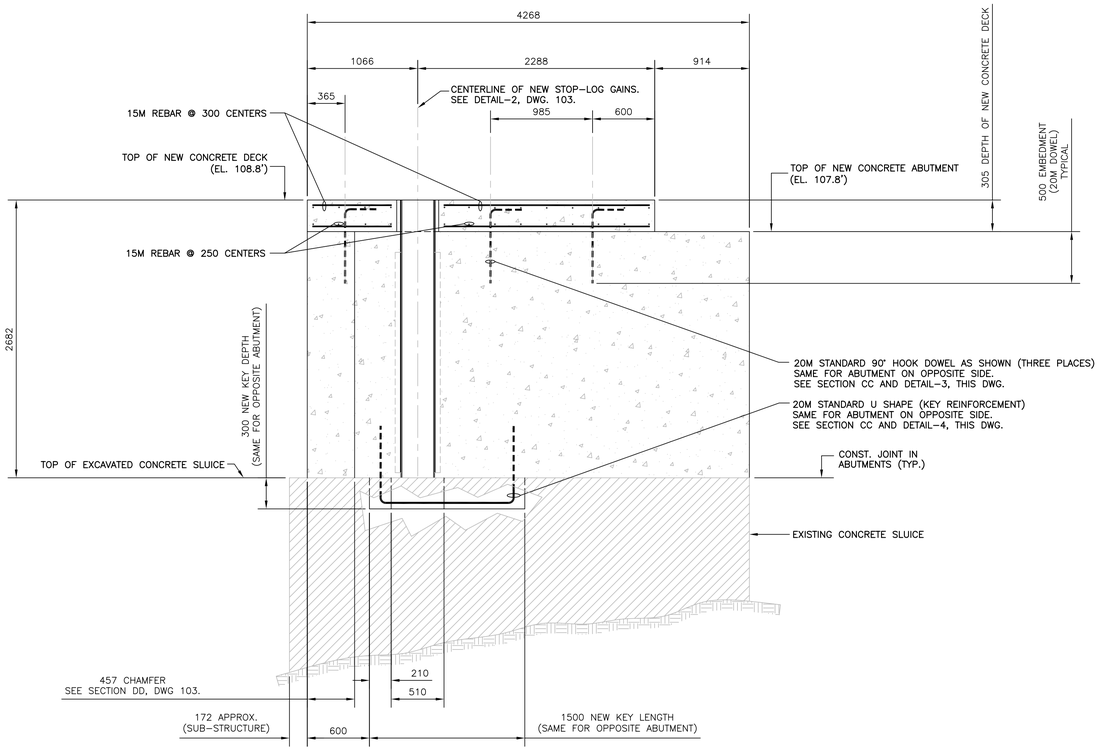
Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada
Real Property Services Canadian Heritage/ Environment Canada/ Parks Canada / Services d'immobiliers du Patrimoine canadien / Environnement Canada/ Parcs Canada
Heritage Canals and Engineering Works National Centre of Expertise / Canaux historiques et travaux d'ingenierie Centre d'expertise national
Canadä

Project title / Titre du projet
TRENT-SEVERN WATERWAY
PUSEY LAKE DAM
REHABILITATION

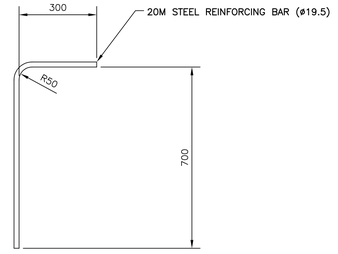
Drawing title / Titre du dessin
ENLARGED PLAN VIEW
AND SECTION SHOWING
15M REBAR LAYOUT

Scale / Échelle: AS NOTED	
Drawn by/ Dessiné par: A. FARRELL	Date: SEPTEMBER 2007
Designed by/ Conçu par: L. BERIAULT	Date: SEPTEMBER 2007
Approved by / Approuvé par: J. MAZHAR	Date: SEPTEMBER 2007
Project No./No. du projet: 310941	Client No./No du Client:
Drawing Reference No./Numéro de Référence du Dessin: COTSW 07/R23	Sheet No./ Feuille No.: 103

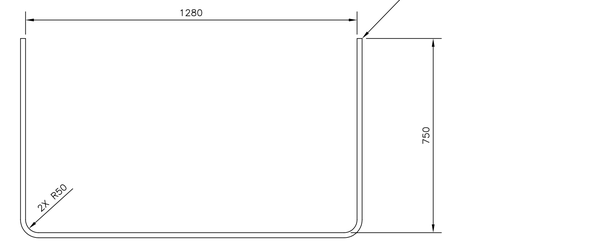
DRAWING NAME PLD103 VIEW PLOTTED EXTENTS SCALE OF PLOT 1=1 PERSON PLOTTING A.C.F. DATE PLOTTED 18/09/07 TIME PLOTTED PM



BB / 103 SECTION
SCALE 1=25

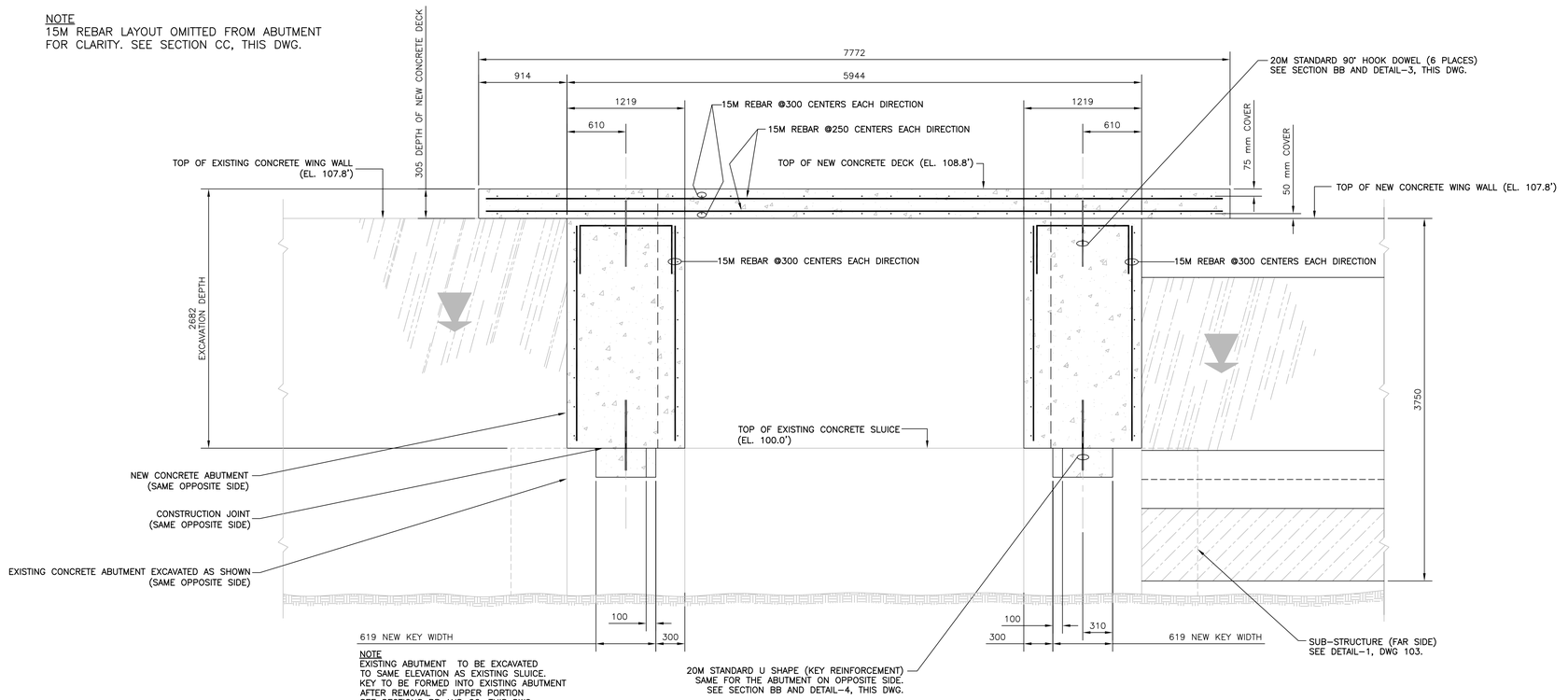


3 / 104 DETAIL
SCALE 1=10



4 / 104 DETAIL
SCALE 1=10

NOTE
15M REBAR LAYOUT OMITTED FROM ABUTMENT
FOR CLARITY. SEE SECTION CC, THIS DWG.



NOTE
EXISTING ABUTMENT TO BE EXCAVATED
TO SAME ELEVATION AS EXISTING SLUICE.
KEY TO BE FORMED INTO EXISTING ABUTMENT
AFTER REMOVAL OF UPPER PORTION
SEE SECTIONS BB AND CC, THIS DWG.
FOR FURTHER DETAIL.
(SAME FOR OPPOSITE ABUTMENT).

CC / 103 SECTION
SCALE 1=25

No.	Date	Description	Drawn by / Dessine par	Approved / Approuve
		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
Real Property Services Canadian Heritage/ Environment Canada/ Parks Canada / Services d'immobiliers du Patrimoine canadien / Environnement Canada/ Parcs Canada
Heritage Canals and Engineering Works National Centre of Expertise / Canaux historiques et travaux d'ingenierie Centre d'expertise national

Canada

Project title / Titre du projet

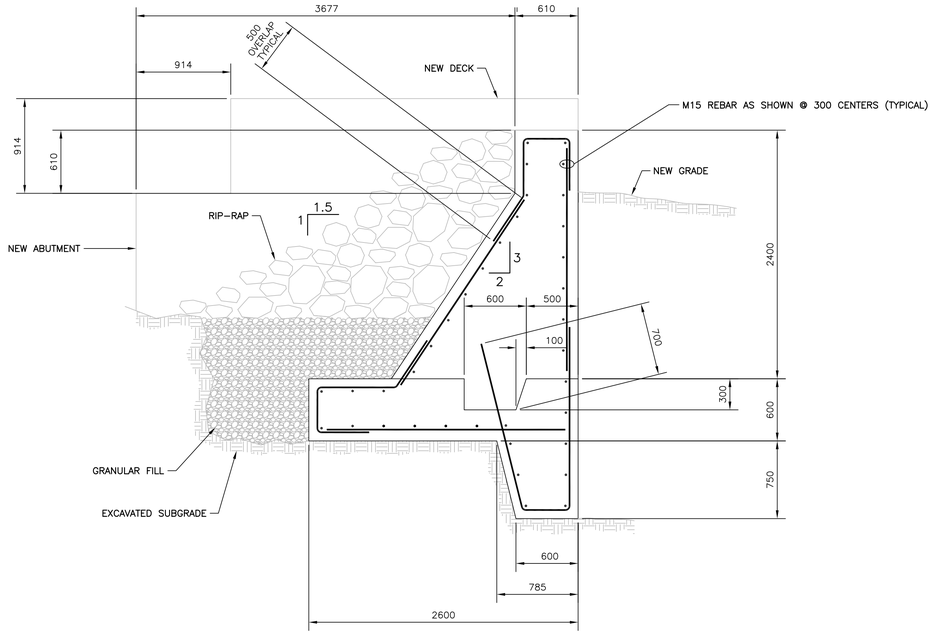
TRENT-SEVERN WATERWAY
PUSEY LAKE DAM
REHABILITATION

Drawing title / Titre du dessin

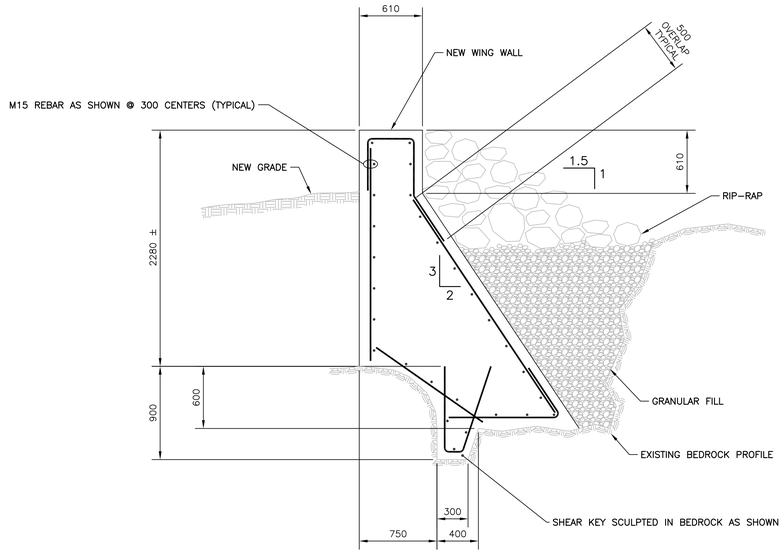
TRANSVERSE AND LONGITUDINAL SECTIONS THRU DAM AND 20M DOWEL DETAILS

Scale / Échelle	AS NOTED
Drawn by/ Dessiné par	A. C. FARRELL
Date	SEPTEMBER 2007
Designed by/ Conçu par	L. BERIAULT
Date	SEPTEMBER 2007
Approved by / Approuvé par	J. MAZHAR
Date	SEPTEMBER 2007
Project No./No. du projet	310941
Client No./No du Client	
Sheet No./ Feuille No.	104
Drawing Reference No./Numéro de Référence du Dessin	COTSW 07/R23

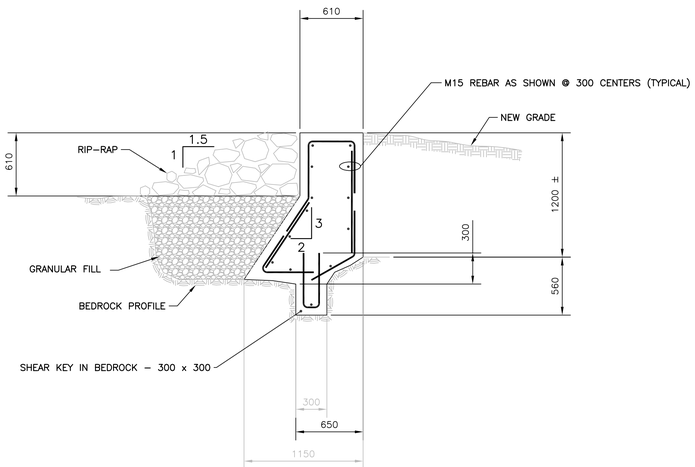
DRAWING NAME PLD104 VIEW PLOTTED EXTENTS SCALE OF PLOT 1=1 PERSON PLOTTING A.C.F. DATE PLOTTED 18/09/07 TIME PLOTTED PM



EE 102 SECTION
SCALE 1=25



FF 102 SECTION
SCALE 1=25



GG 102 SECTION
SCALE 1=25

(SECTION AT OUTSIDE END OF NEW WING WALL)

No.	Date	Description	Drawn by Dessine par	Approved Approuve
		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
Real Property Services Canadian Heritage/ Environment Canada/ Parks Canada
Services d'immobiliers du Patrimoine canadien / Environnement Canada/ Parcs Canada
Heritage Canals and Engineering Works National Centre of Expertise
Canaux historiques et travaux d'ingenierie Centre d'expertise national

Canadä

Project title / Titre du projet

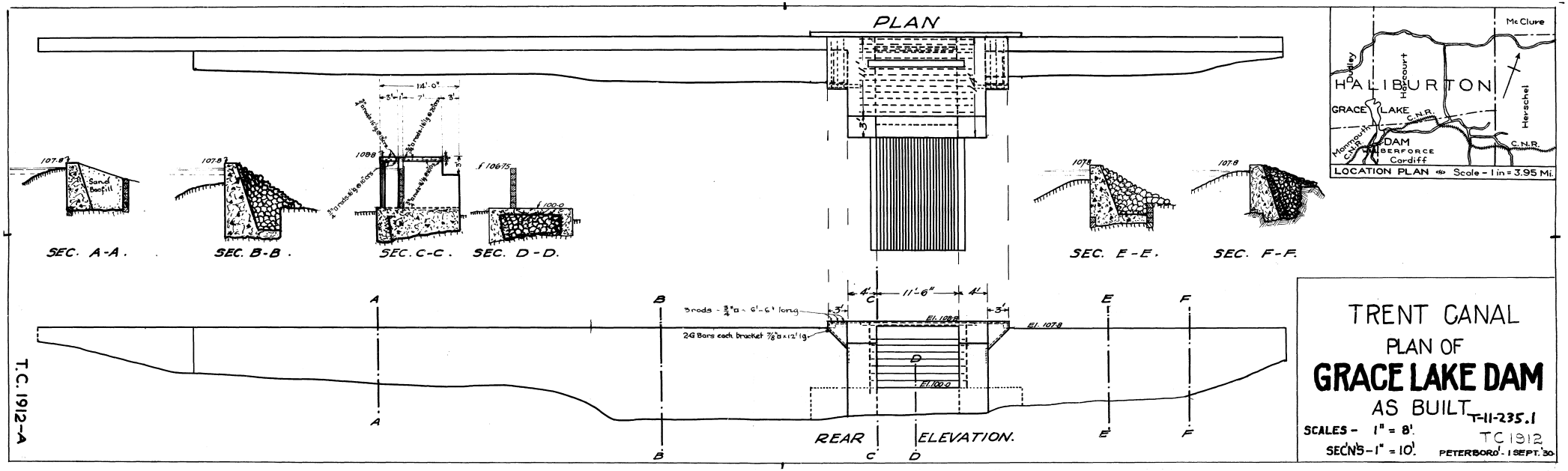
TRENT–SEVERN WATERWAY
PUSEY LAKE DAM
REHABILITATION

Drawing title / Titre du dessin

SECTIONS THRU
NEW WING WALL
(CONSTRUCTION DETAILS)

Scale / Échelle: AS NOTED	
Drawn by/ Dessiné par: A. C. FARRELL	Date: SEPTEMBER 2007
Designed by/ Conçu par: L. BERIAULT	Date: SEPTEMBER 2007
Approved by / Approuvé par: J. MAZHAR	Date: SEPTEMBER 2007
Project No./No. du projet: 310941	Client No./No du Client:
Drawing Reference No./Numéro de Référence du Dessin: COTSW 07/R23	Sheet No./ Feuille No.: 105

DRAWING NAME PLD105 VIEW PLOTTED EXTENTS SCALE OF PLOT 1=1 PERSON PLOTTING A.C.F. DATE PLOTTED 18/09/07 TIME PLOTTED AM



TRENT CANAL

PLAN OF

GRACE LAKE DAM

AS BUILT

T-11-235.1

SCALES - 1" = 8'

SEC'NS - 1" = 10'

TC 1912

PETERBORO' - 1 SEPT. '30.

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Esson Lake Dam aka Otter**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Essonville Line		
Topographic Map	-	Coordinates (dd/mm/ss)	N 45° 00' 34"
			W 78° 15' 03"
Drainage basin	Burnt River		
Name of watercourse	Irondale River	Approximative elevation	- m
Name of lake / reservoir	Esson Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive	Phone	(705) 750-4407
	Peterborough, Ontario, K9J 6Z6	Cellular	(705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	8.40	m	Year of construction	1908	
Height of the reservoir	-	m	Year of rehabilitation	-	
Length of structure	38.60	m	Drawings and/or specifications	-	
Area of the reservoir	236	ha			
Storage capacity	-	m^3	Classification (PCA)	Significant	
Catchment area	-	km^2	Overall condition	-	
			Category	-	

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

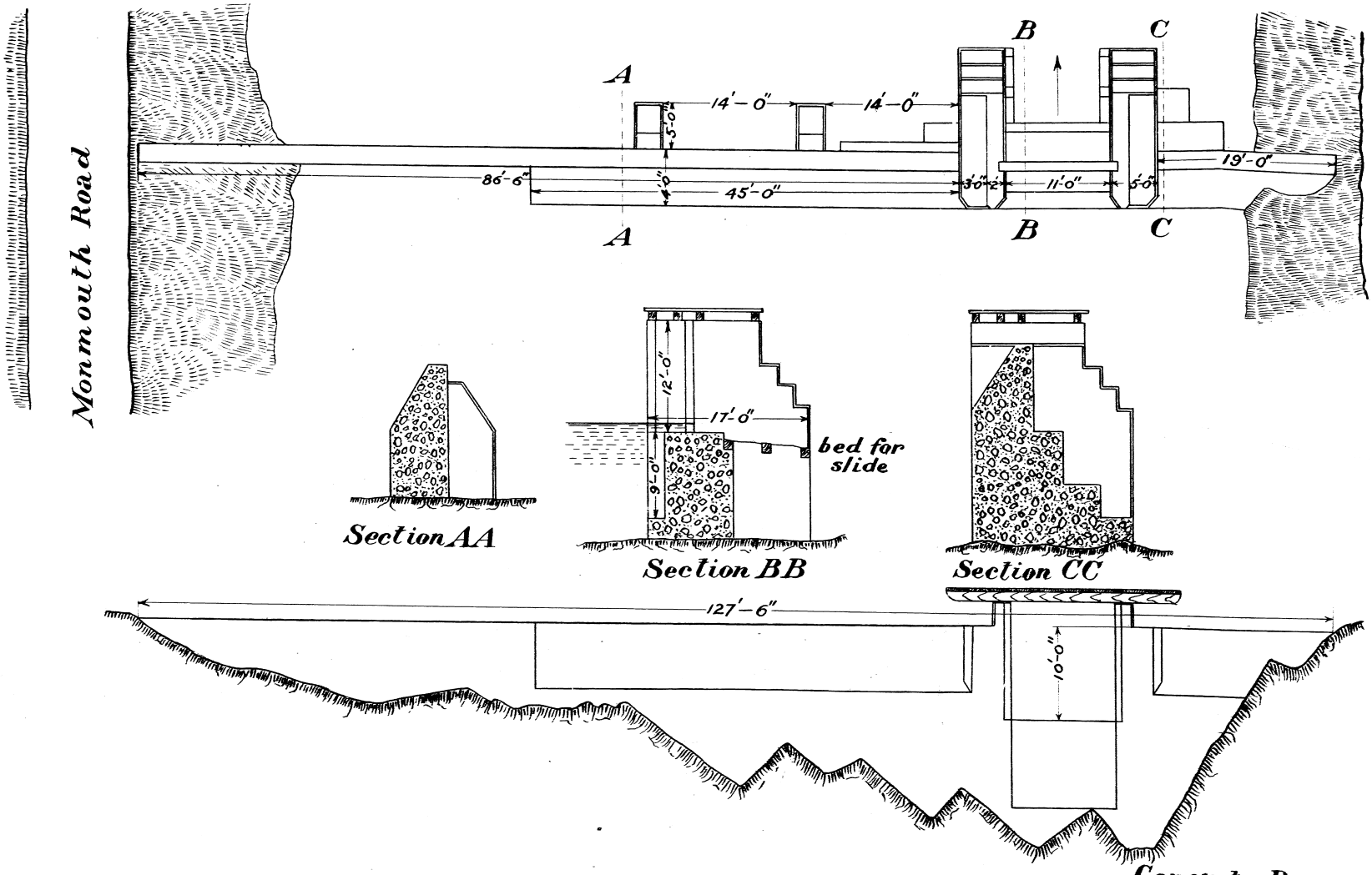
Last Engineering inspection by : - Date : - -

OTTER LAKE DAM : LOT 24, CON XIV, MONMOUTH

Dominion Government

Scale — 10' = 1"

No 919



Concrete Dam
Built 1908

T-11-265
TC 1926-C

14-36

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Little Glamor Lake Dam aka Little Bear**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Glamor Lake Road		
Topographic Map	-	Coordinates (dd/mm/ss)	N 44° 58' 16"
			W 78° 21' 57"
Drainage basin	Burnt River		
Name of watercourse	Irondale River	Approximative elevation	- m
Name of lake / reservoir	Little Glamour Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive	Phone	(705) 750-4407
	Peterborough, Ontario, K9J 6Z6	Cellular	(705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	3.00	m	Year of construction	1968
Height of the reservoir	-	m	Year of rehabilitation	-
Length of structure	44.10	m	Drawings and/or specifications	-
Area of the reservoir	63	ha		
Storage capacity	-	m^3	Classification (PCA)	Low
Catchment area	-	km^2	Overall condition	-
			Category	-

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

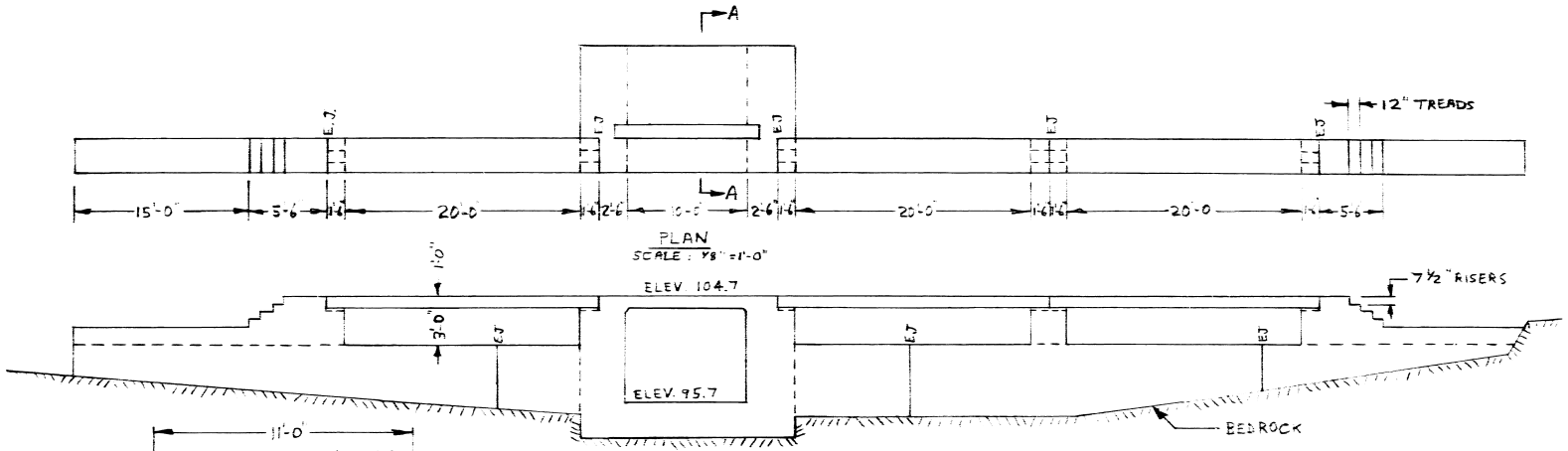
Comments -

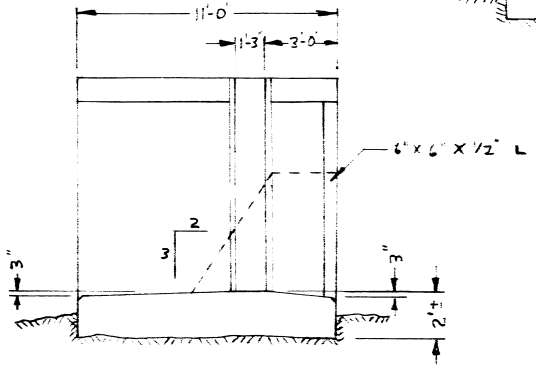
SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -





SECTION A-A
SCALE 1/4" = 1'-0"

NOTE :
FOR MORE DETAIL SEE DRAWINGS TC 3658-G & 3660-G

DEPARTMENT OF TRANSPORT

MARINE WORKS
CANALS DIVISION
TRENT CANAL SYSTEM

LITTLE BEAR LAKE DAM

AS BUILT - 1968

SCALE AS NOTED
DESIGN:
DRAWN JFP
CHECKED:

DATE DEC 15/69

T-11-224.2

TC 3864-C

T.C.1682-A

stoplogs - 10'-4"
gains - 10'-7"

Deck - 10'-0" x 25'-0"

70'-0"

2'-9"

9'-0"

10'-9"

58'-0"

FRONT ELEVATION - SCALE - 1" = 10'-0"

Bank

stone fill

10" x 10"

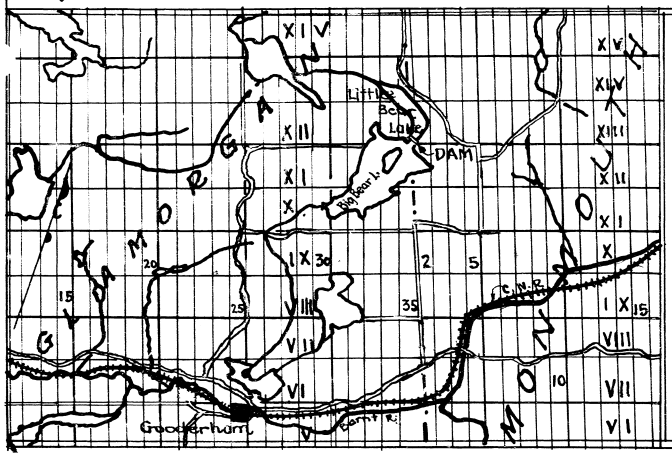
10" x 10"

stone fill

Bank
Sand & Rock

PLAN - SCALE - 1" = 10'-0"

Note - Plan & Elevation from sketch of W.D. Grant dated 7/30/30



Location Plan

Scale

1in = 1.97Mi.

T.C. 1682-A

T-11-224.1

TRENT CANAL

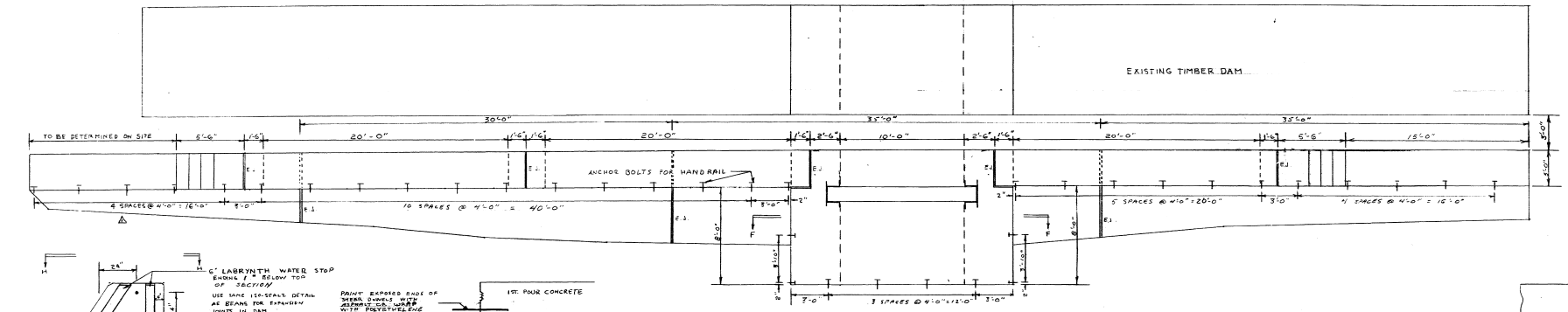
Plan of

TIMBER DAM AT OUTLET OF LITTLE BEAR LAKE

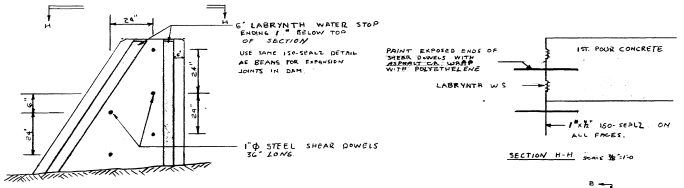
Proposed to be rebuilt in timber

Lot 2, Con. XIII, Tp. of Monmouth

Scales as noted - Peterboro' 24 Nov. 30

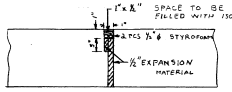


PLAN SCALE 1/8" = 1'-0"

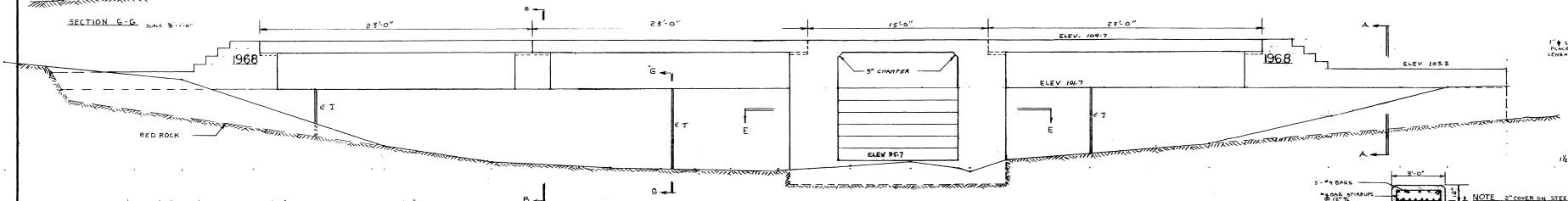


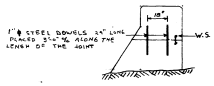
SECTION G-G SCALE 1/2" = 1'-0"

SECTION H-H SCALE 1/2" = 1'-0"

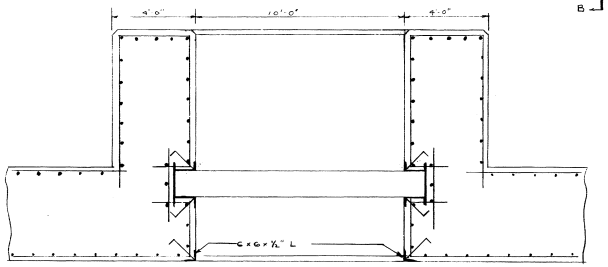


EXPANSION JOINT FOR BEAMS N.T.S.

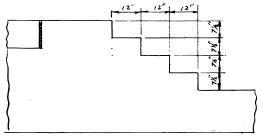




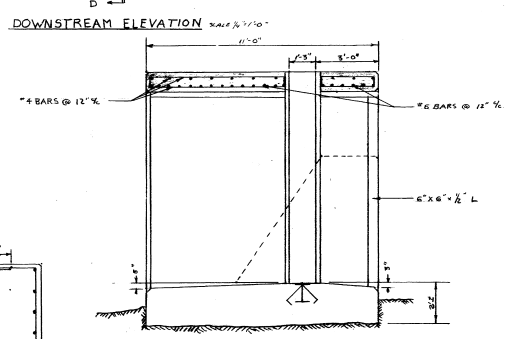
ALTERNATE CONSTRUCTION JOINT SCALE 1/4" = 1'-0"



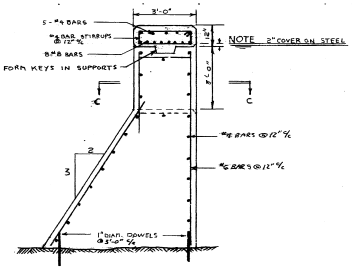
SECTION E-E SCALE 1/8" = 1'-0"



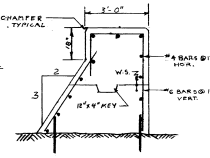
STEP DETAIL SCALE 1/2" = 1'-0"



SECTION D-D

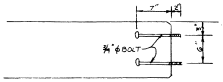


SECTION B-B SCALE 1/8" = 1'-0"

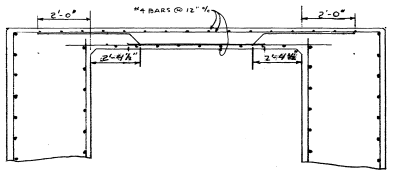


SECTION A-A SCALE 1/2" = 1'-0"

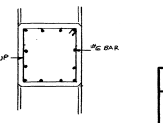
TYPICAL CONSTRUCTION JOINT AS SHOWN IN SECT. A-A.
VERTICAL CONST. JOINT SAME DIMENSIONS WATERSTOP TO BE INSTALLED ON UPSTREAM SIDE OF KEY



DETAIL OF HANDRAIL FASTENING SCALE: 1" = 1'-0"



SECTION F-E SCALE 1/8" = 1'-0"



SECTION C-C SCALE: 3/4" = 1'-0"

COVER ON RE STEEL TO BE 3" UNLESS NOTED
W.S. WATER STOP
E.J. EXPANSION JOINT

DATE:	REVISIONS:	MADE:	CH'CK'D:
JULY 10/68	Δ ADDITIONAL ANCHOR BOLTS FOR HANDRAIL	JTT	

DEPARTMENT OF TRANSPORT
MARINE WORKS
CANALS DIVISION
TRENT CANAL SYSTEM

LITTLE BEAR LAKE DAM

SCALE: AS NOTED
DESIGN: JTT
DRAWN: JTT
CHECKED:
DATE: JUNE 28/68

H.Q. SUPERINTENDING ENGINEER

TC-3658-G

T-11-224.4

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Glamor Lake Dam aka Big Bear**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Turfyn Lane		
Topographic Map	-	Coordinates (dd/mm/ss)	N 44° 57' 06"
			W 78° 22' 51"
Drainage basin	Burnt River		
Name of watercourse	Irondale River	Approximative elevation	- m
Name of lake / reservoir	Glamour Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive	Phone	(705) 750-4407
	Peterborough, Ontario, K9J 6Z6	Cellular	(705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	4.00	m	Year of construction	1931
Height of the reservoir	-	m	Year of rehabilitation	-
Length of structure	40.90	m	Drawings and/or specifications	-
Area of the reservoir	187	ha		
Storage capacity	-	m^3	Classification (PCA)	High A
Catchment area	-	km^2	Overall condition	-
			Category	-

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

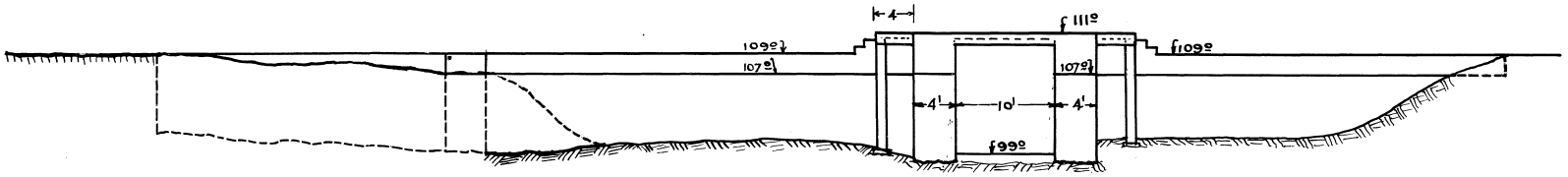
Comments -

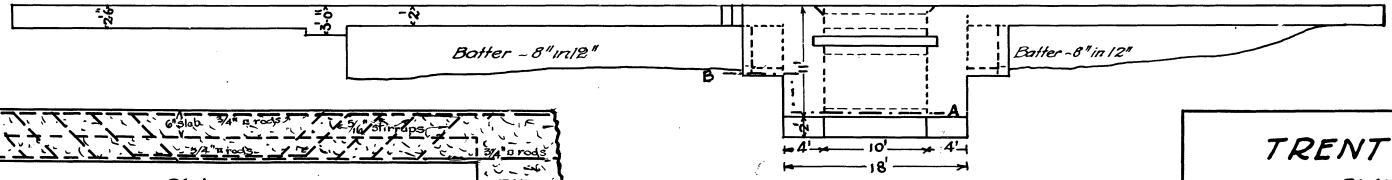
SECTION X - REQUIRED DOCUMENTS

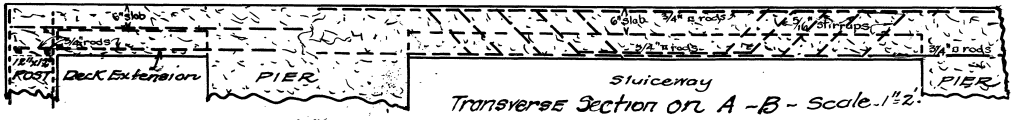
DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

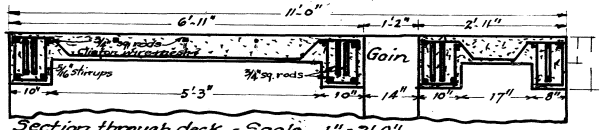
Last Engineering inspection by : - Date : - -







Transverse Section on A - B - Scale 1" = 2'



Section through deck - Scale - 1" = 2'-0"

Lot 30 Con. 10
Tp Glamorgan

TRENT CANAL

PLAN OF

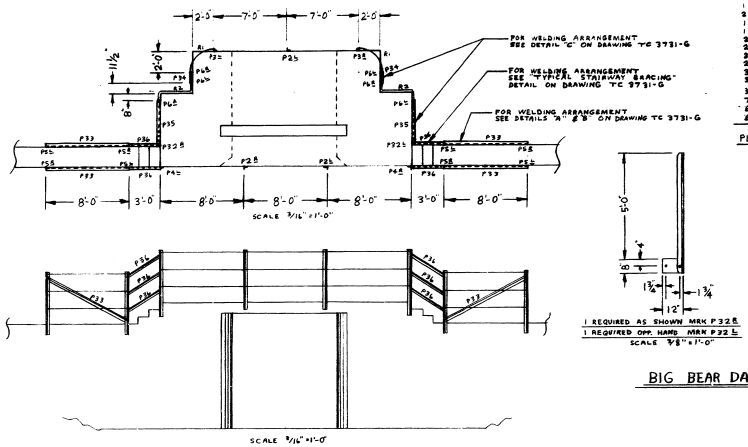
BIG BEAR DAM

T-11-237

AS BUILT T.C. 1931-A

Scales - 1" = 10'
1" = 2'-0" Peterborough 5 Sept. '30.

T.C. 1931-A



1 REQUIRED AS SHOWN MRK P32R
1 REQUIRED OPP. HAND MRK P32L
SCALE 3/8" = 1'-0"

1 ANGLE ASSEMBLY REQUIRED AS SHOWN AND NOTED MRK P2R
2 " " " OPP HAND " " MRK P2L
1 " " " AS SHOWN " " MRK P3R
1 " " " OPP. HAND " " MRK P3L
2 " " " AS SHOWN " " MRK P4R
2 " " " OPP. HAND " " MRK P4L
2 " " " AS SHOWN " " MRK P5R
2 " " " OPP. HAND " " MRK P5L
3 " " " AS SHOWN " " MRK P6R
3 " " " OPP. HAND " " MRK P6L
36 - 5/8" ϕ X 12" LONG EYEBOLT C/W NUT & WASHER (GALVANIZED)
72 - 1/2" CABLE CLAMPS
6 RODS REQUIRED AS SHOWN AND NOTED MRK R1
6 RODS REQUIRED AS SHOWN AND NOTED MRK R2

PLAIN MATERIAL:
4 PIECES REQUIRED 3½" X 3½" X 3/8" L
9'-7" LONG MRK P35 (CUT TO SUIT IN FIELD)

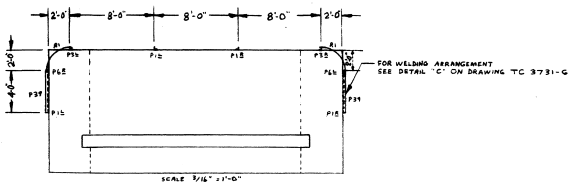
6 PIECES REQUIRED 2" X 2" X ¼" L
1'-6" LONG MRK P34 (CUT TO SUIT IN FIELD)

6 PIECES REQUIRED 2" X 2" X ¼" L
4'-10" LONG MRK P35 (CUT TO SUIT IN FIELD)

12 PIECES REQUIRED 2" X 2" X ¼" L
4'-2" LONG MRK P36 (CUT TO SUIT IN FIELD)

270 - LIN FT. 1/2" ϕ 1 X 7 WIRE STRAND GUARD RAIL CABLE

BIG BEAR DAM

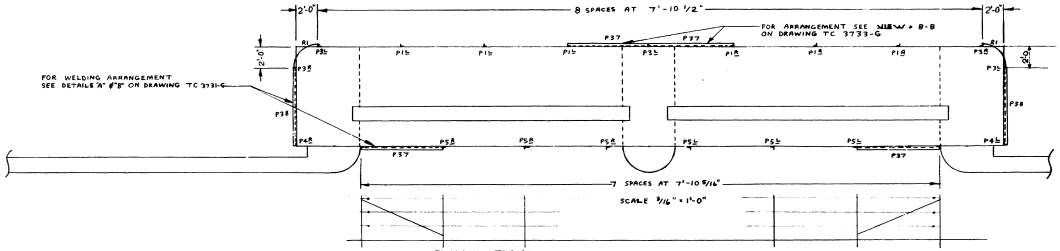


2 ANGLE ASSEMBLIES REQUIRED AS SHOWN AND NOTED MRK P1R
2 " " " OPP HAND " " MRK P1L
1 " " " AS SHOWN " " MRK P3R
1 " " " OPP HAND " " MRK P3L
1 " " " AS SHOWN " " MRK P4R
1 " " " OPP. HAND " " MRK P4L
6 RODS REQUIRED AS SHOWN AND NOTED MRK R1
6 - 5/8" ϕ X 12" LONG EYEBOLT C/W NUT & WASHER (GALVANIZED)
12 - 1/2" CABLE CLAMPS

PLAIN MATERIAL:
6 PIECES REQUIRED 2" X 2" X ¼" L
4'-6" LONG MRK P39 (CUT TO SUIT IN FIELD)

100 - LIN. FT. 1/2" ϕ 1 X 7 WIRE STRAND GUARD RAIL CABLE

EAGLE LAKE DAM AT GULL RIVER



2 ANGLE ASSEMBLIES REQUIRED AS SHOWN AND NOTED MRK P1R
2 " " " OPP. HAND " " MRK P1L
2 " " " AS SHOWN " " MRK P3R
1 " " " OPP. HAND " " MRK P3L
1 " " " AS SHOWN " " MRK P4R
1 " " " OPP. HAND " " MRK P4L
4 " " " AS SHOWN " " MRK P5R
4 " " " OPP. HAND " " MRK P5L
6 RODS REQUIRED AS SHOWN AND NOTED MRK R1
30 - 5/8" ϕ X 12" LONG EYEBOLT C/W NUT & WASHER (GALVANIZED)
60 - 1/2" CABLE CLAMPS

PLAIN MATERIAL:
4 PIECES REQUIRED 3½" X 3½" X 3/8" L
9'-7" LONG MRK P37 (CUT TO SUIT IN FIELD)

2 PIECES REQUIRED 3½" X 3½" X 3/8" L
9'-0" LONG MRK P38 (CUT TO SUIT IN FIELD)

450 - LIN FT. 1/2" ϕ 1 X 7 WIRE STRAND GUARD RAIL CABLE

GULL RIVER NO. 2 DAM (MOORES FALLS)

SHEET 4 OF 6
WORK THIS DRAWING WITH TC 3731-G & TC 3733-G

ALL HOLES 11/16" ϕ UNLESS OTHERWISE NOTED
ALL ANGLES 3½" X 3½" X 3/8" UNLESS OTHERWISE NOTED
PAINT - ONE SHOP COAT

DEPARTMENT OF TRANSPORT
MARINE WORKS
CANALS DIVISION
TRENT CANAL SYSTEM
GUARD RAILS FOR:
BIG BEAR DAM
GULL RIVER NO. 2 DAM (MOORES FALLS)
EAGLE LAKE DAM AT GULL RIVER

SCALE: AS NOTED
DESIGN: J F P
DRAWN: J F P
CHECKED: C. J. G
DATE: JAN. 31/69
SUPERINTENDING ENGINEER

DATE:	REVISIONS:	MADE:	CH'CK'D:

T.C. 3734-G

T-14-173.4

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Gooderham Lake Dam aka Pine**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Lakeshore Road		
Topographic Map	-	Coordinates (dd/mm/ss)	N 44° 54' 28"
			W 78° 22' 53"
Drainage basin	Burnt River		
Name of watercourse	Irondale River	Approximative elevation	- m
Name of lake / reservoir	Gooderham Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive	Phone	(705) 750-4407
	Peterborough, Ontario, K9J 6Z6	Cellular	(705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	4.90	m	Year of construction	1907
Height of the reservoir	-	m	Year of rehabilitation	-
Length of structure	27.10	m	Drawings and/or specifications	-
Area of the reservoir	85	ha		
Storage capacity	-	m^3	Classification (PCA)	High A
Catchment area	-	km^2	Overall condition	-
			Category	-

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

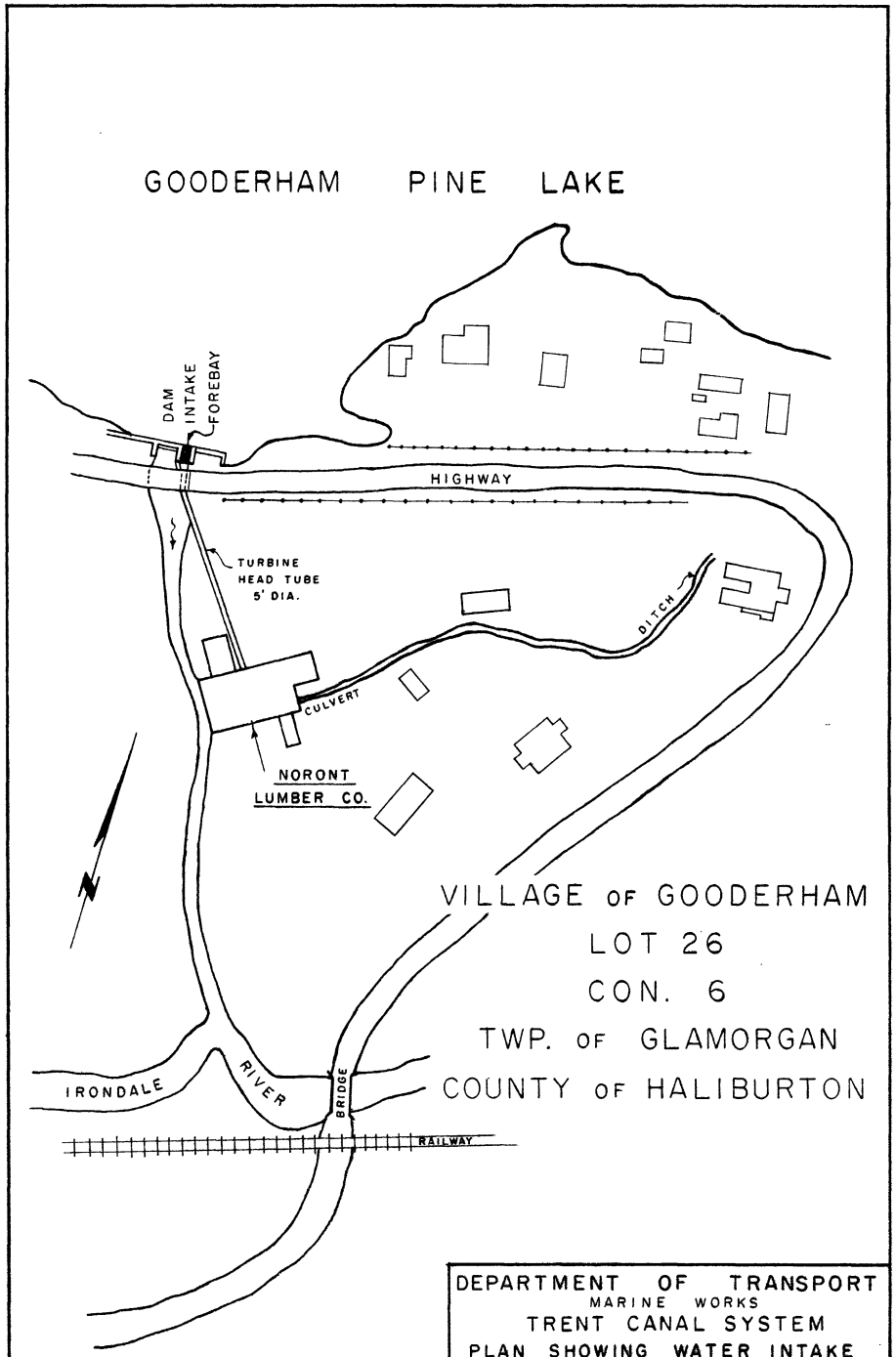
Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -



DEPARTMENT OF TRANSPORT
MARINE WORKS
TRENT CANAL SYSTEM
PLAN SHOWING WATER INTAKE
TO BE LEASED TO
NORONT LUMBER LIMITED

DATE : Dec. 2, 1969. MADE :
SCALE : 1 in. = 100 ft. TRCD : P.P.
CHKD : R.R.C.
APP'D :

SUPERINTENDING ENGINEER

TC 3855-A

1	APR. 14, '70	LESSEE'S NAME CHG'D. TO NORONT LUMBER LTD.	

REVISIONS

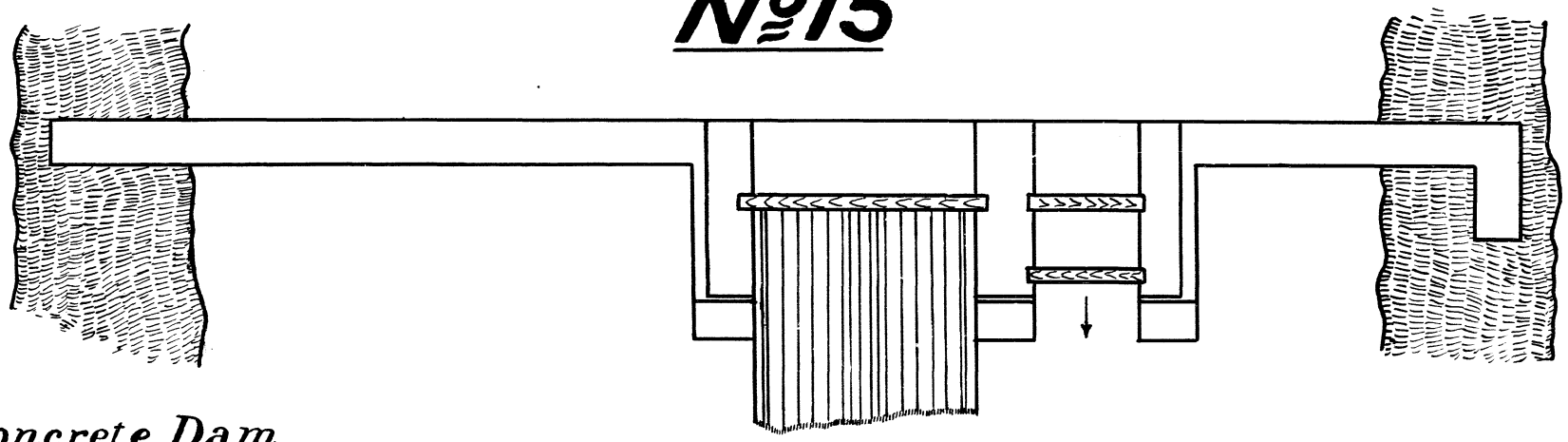
TC 183

Lot 26 - Con. V. - Glamorgan

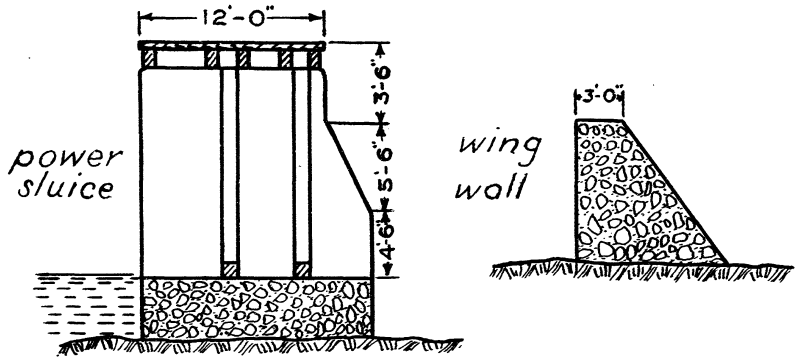
PINE LAKE DAM : VILLAGE OF GOODERHAM

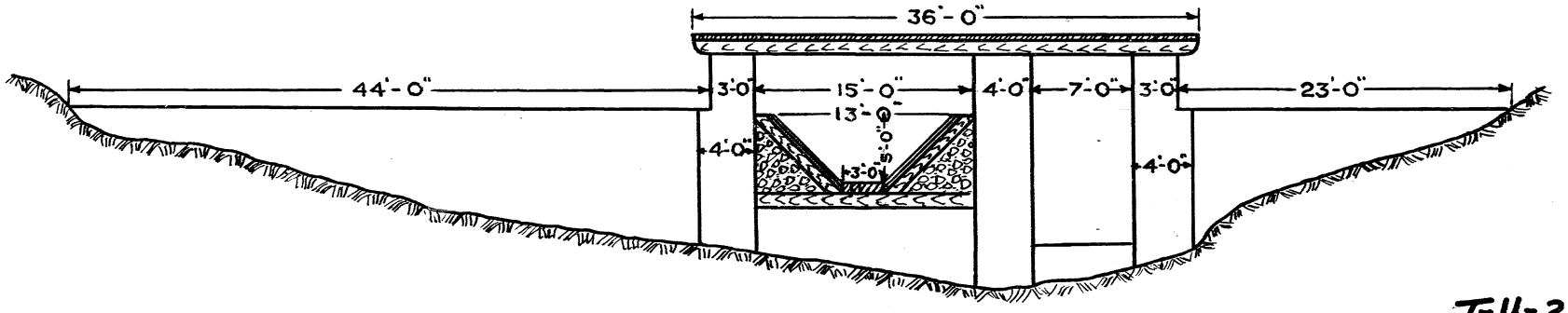
Dominion Government Scale—10'=1"

No. 15



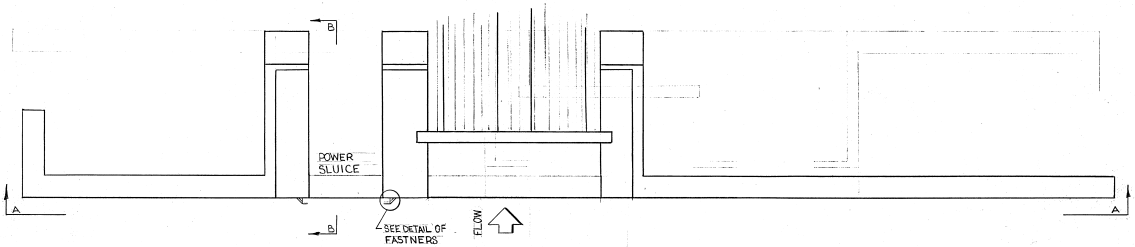
Concrete Dam
Built 1907





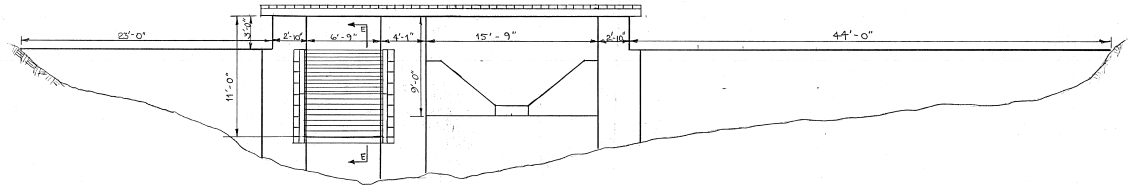
T-11-259-1

T.C. 1936-B



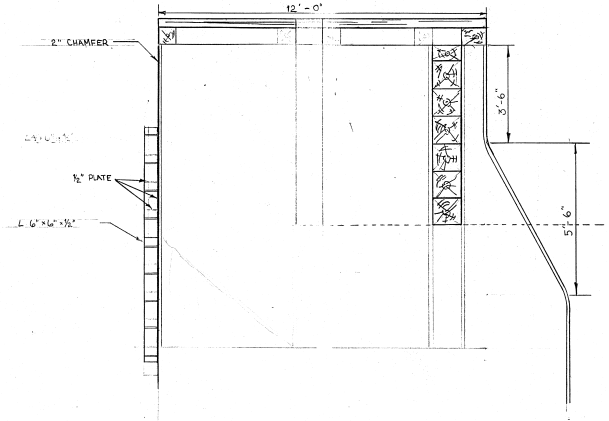
PLAN

SCALE 1"=5'-0"



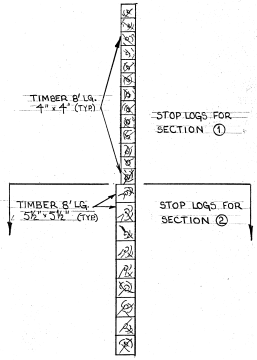
SECTION A-A

SCALE 1"=5'-0"



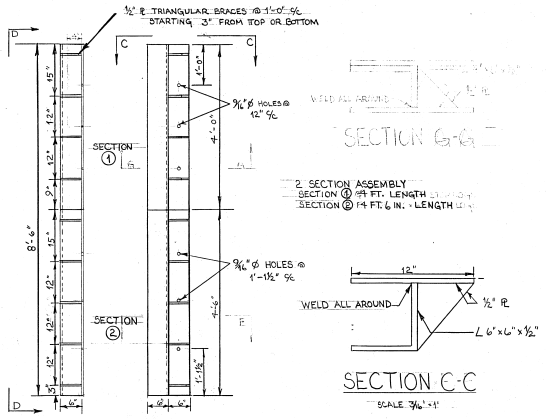
SECTION B-B

SCALE 1"=2'-0"



SECTION E-E

SCALE ¾"=1'-0"



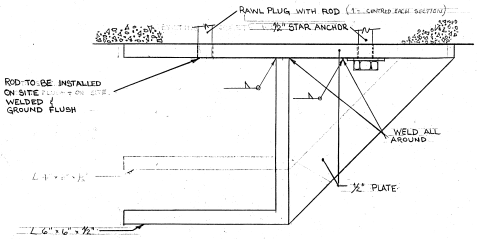
SECTION D-D

SECTION C-C

SCALE 3/16"=1"

STOP LOG GAIN ASSEMBLY

SCALE ¾"=1'-0"



DETAIL OF FASTNERS

SCALE ½"=1"

INDIAN AFFAIRS & NORTHERN DEVELOPMENT
NATIONAL & HISTORIC PARKS BRANCH – CANALS

AFFAIRES INDIENNES ET DU NORD CANADIEN
DIRECTION DES PARCS NATIONAUX ET DES LIEUX HISTORIQUES – CANAUX

TRENT CANAL SYSTEM

GOODERHAM PINE DAM
STOPLOG GAIN ASSEMBLY

SCALE/ÉCHELLE AS SHOWN
DATE/DATE MAR. 1974
DESIGNED/ÉTABLI
DRAWN/TRACÉ K.W.
CHECKED/VÉRIFIÉ
SUPERINTENDING ENGINEER/SURINTENDANT

T.C. 1391-G

DATE	REVISIONS/REVISIONS	BY/PAR	CHECKED/VÉRIFIÉ

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Contau Lake Dam aka Contains**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Contau Lake Road		
Topographic Map	-	Coordinates (dd/mm/ss)	N 44° 53' 49"
			W 78° 25' 06"
Drainage basin	Burnt River		
Name of watercourse	Irondale River	Approximative elevation	- m
Name of lake / reservoir	Contau Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	3.50	m	Year of construction	1930	
Height of the reservoir	-	m	Year of rehabilitation	-	
Length of structure	29.00	m	Drawings and/or specifications	-	
Area of the reservoir	119	ha			
Storage capacity	-	m^3	Classification (PCA)	Low	
Catchment area	-	km^2	Overall condition	-	
			Category	-	

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

Comments -

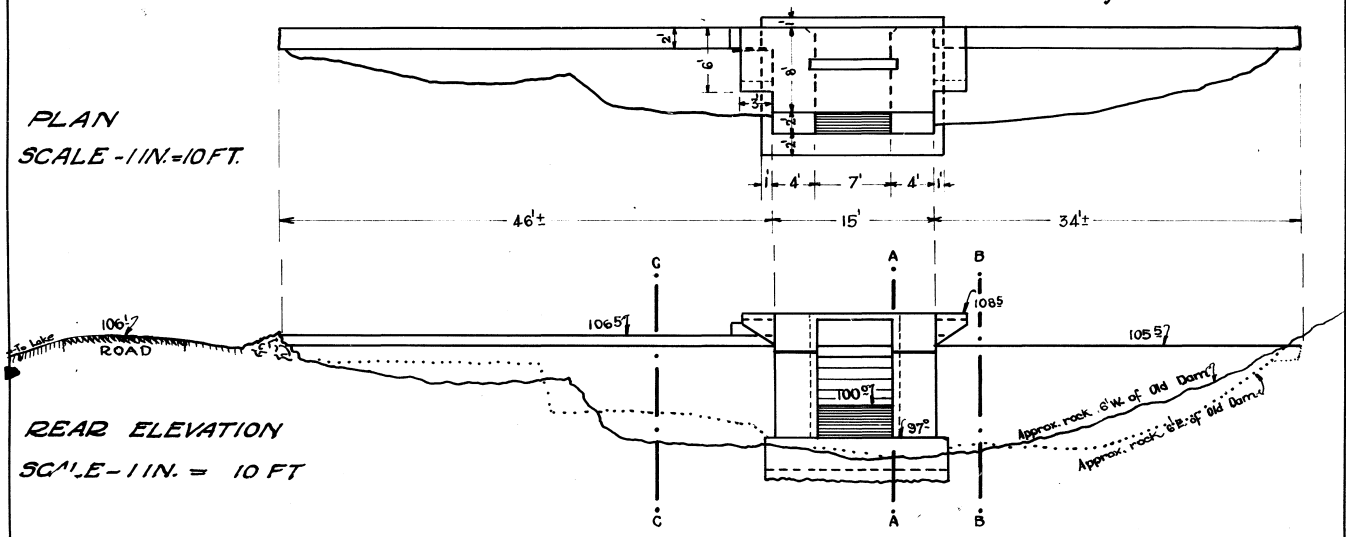
SECTION X - REQUIRED DOCUMENTS

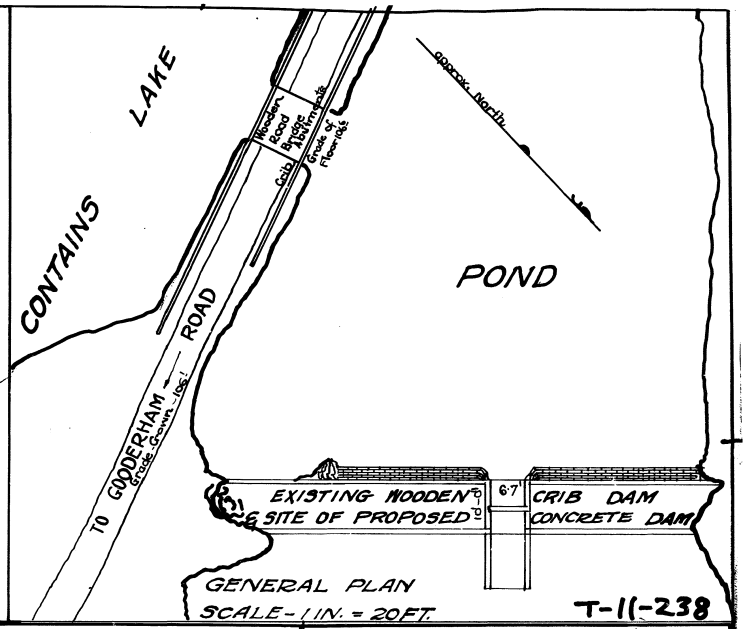
DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -

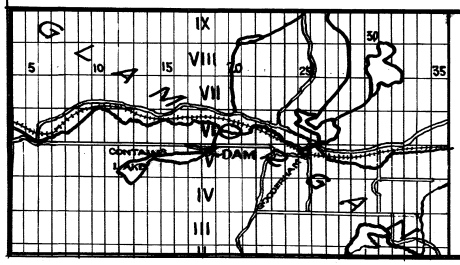
100 = Sill of Old Dam
Concrete = 169 yd. ±





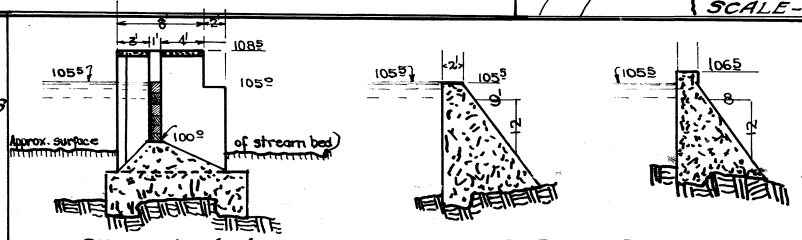
T-11-238

T.C. 1932-A



LOCATION PLAN
SCALE
1 IN. = 1·97 MI.

TYPICAL CROSS SECTIONS
SCALE
1 IN. = 10 FT.



TRENT CANAL

Plan of

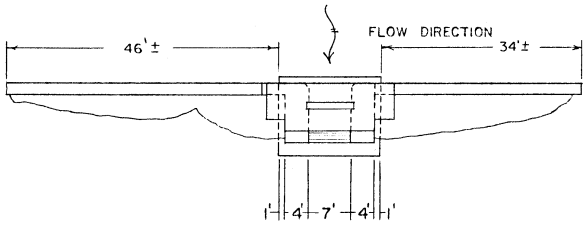
PROPOSED NEW CONCRETE DAM

at the outlet of

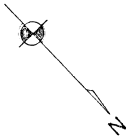
CONTAINS LAKE

Lot 18 - CON. V - Tp. of Glamorgan.

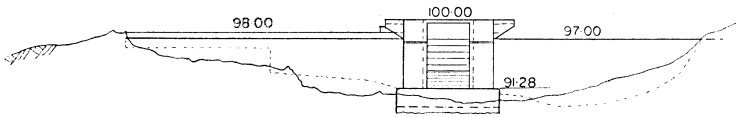
Scales as noted - Peterboro' 20 Nov. '30.



PLAN



ELEVATION BASE ON ASSUMING
COPING ELEVATION IS 100·00



DOWNSTREAM ELEVATION

DEPARTMENT OF INDIAN AFFAIRS
AND NORTHERN DEVELOPMENT
PARKS CANADA
TRENT CANAL SYSTEM

CONTAINS DAM

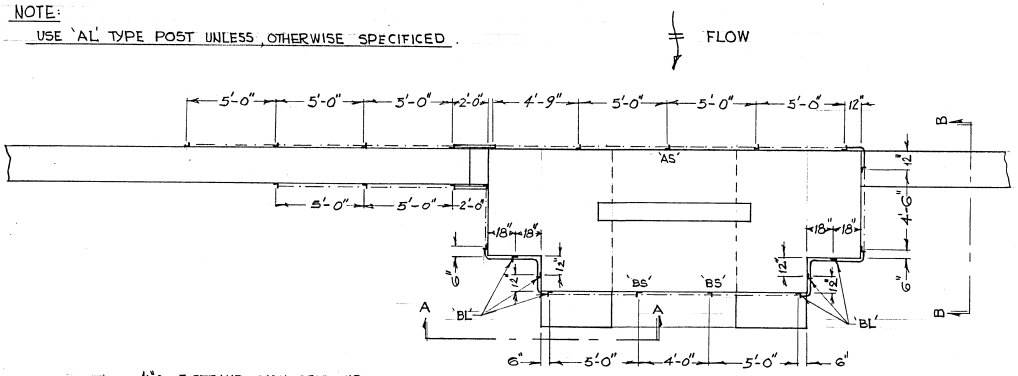
DATE: MAR/75
SCALE: 1" = 20'-0"

MADE:
TRC'D: SWC
CHK'D:
APR'D:

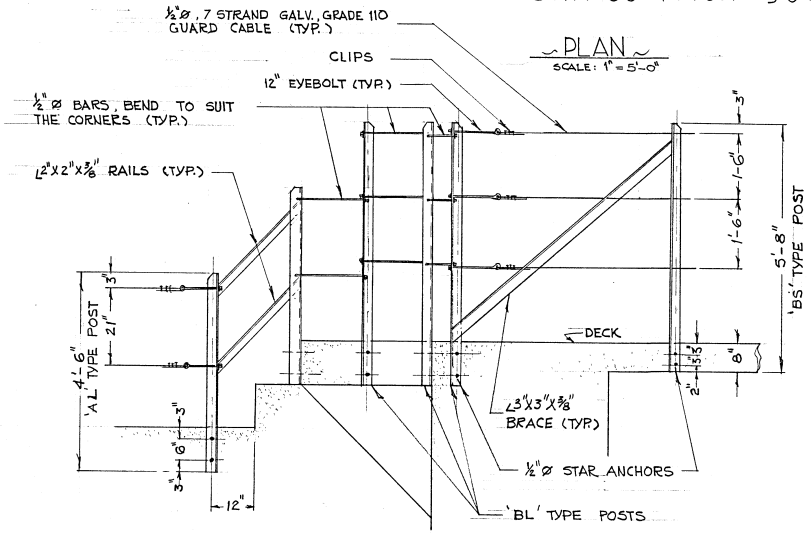
SUPERINTENDENT

TC-4511 B

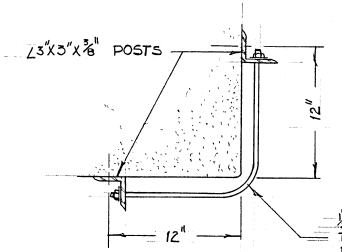
NOTE:
USE 'AL' TYPE POST UNLESS OTHERWISE SPECIFICED.



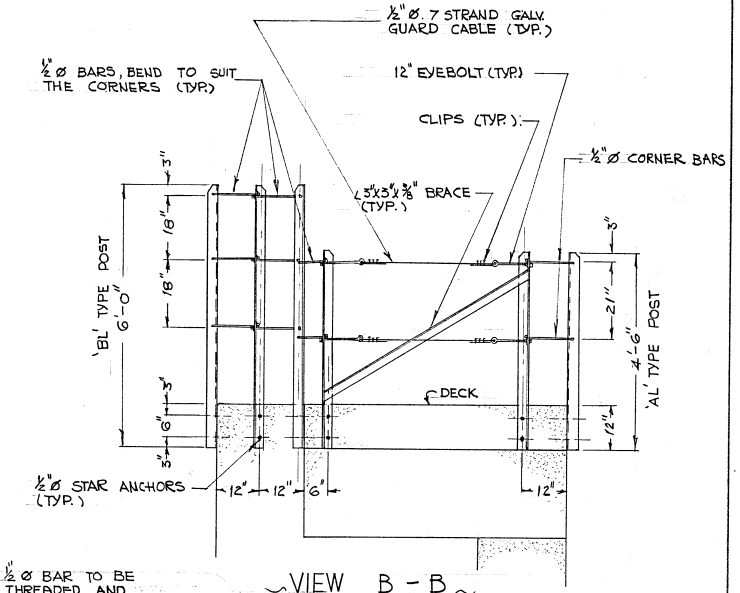
~ PLAN ~
SCALE: 1" = 5'-0"



~ VIEW A-A ~
SCALE: ½" = 1'-0"



~ CORNER BAR DETAIL ~
SCALE: ⅛" = 1"



~ VIEW B - B ~
SCALE: ½" = 1'-0"

NOTE:
1. TYPES OF POST, SEE DWG T.S.W. 4605C
2. BRACE REQ'D FOR END AND CORNER POSTS
3. PAINT: ONE SHOP - PRIMER

Indian and Northern Affairs | Affaires Indiennes et du Nord | Parks Canada | Parcs Canada

TRENT-SEVERN WATERWAY

TITLE: INSTALLATION GUARD CABLE CONTAINS LAKE DAM

DRAWN BY: BNC
DESIGNED BY:
CHECKED BY:
RESPONSIBLE OFFICES:

SCALE: AS SHOWN
DATE: MAR./76

T.S.W. 4614-C

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**White Lake Dam**	AMS Number :	**11400**
Comments / Description	Concrete Gravity Dam		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	White Lake Rd (aka White Boundary Rd) via CR 503		
Topographic Map	031D16 (Gooderham)	Coordinates (dd/mm/ss)	N 45° 50' 20"
			W 78° 28' 28"
Drainage basin	Burnt River		
Name of watercourse	Salerno Creek	Approximative elevation	≈ 308 m
Name of lake / reservoir	White Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	5.49	m	Year of construction	1912
Height of the reservoir	4.60	m	Year of rehabilitation	-
Length of structure	83.52	m	Drawings and/or specifications	Available
Area of the reservoir	160	ha		
Storage capacity	≈ 7M	m^3	Classification (PCA)	High A
Catchment area	-	km^2	Overall condition	B
			Category	Regulated Dam

Main use(s)	Navigation		
Replacement cost	79500	*according to AMS Data dating from :*	1997
Deffered Maintenance	-		

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -

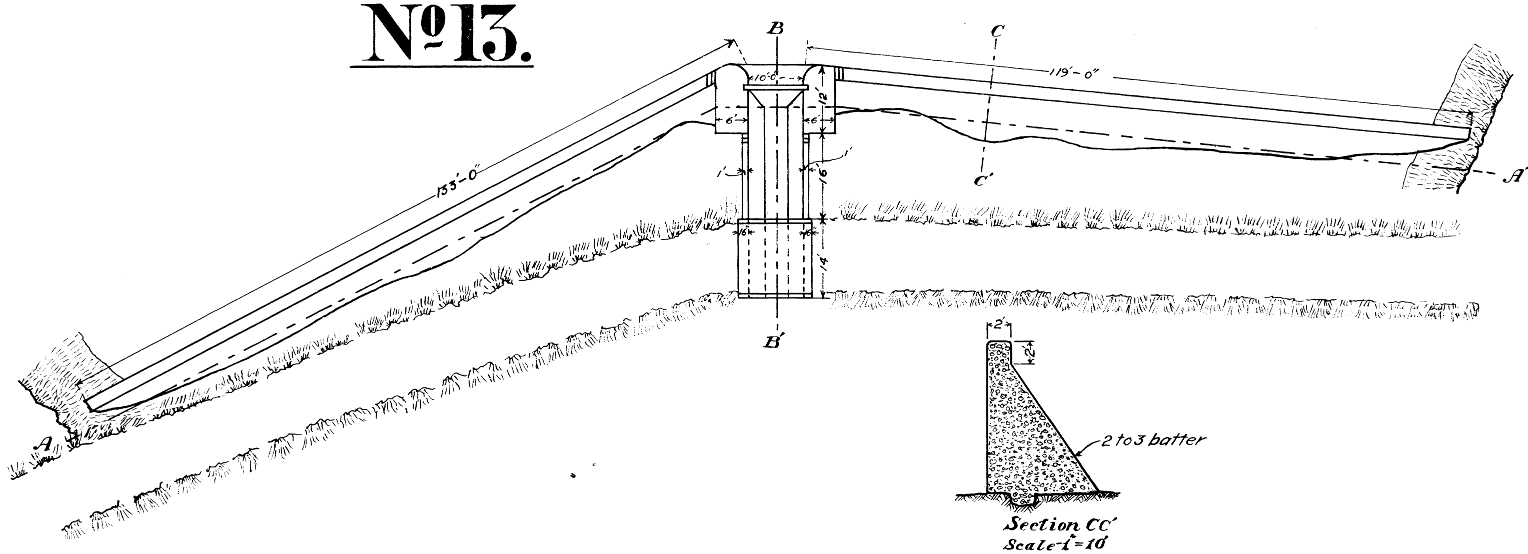
Drawing 57

Lot 2, Con 1, Glamorgan
See letter 23 Oct/28 - File 20-9

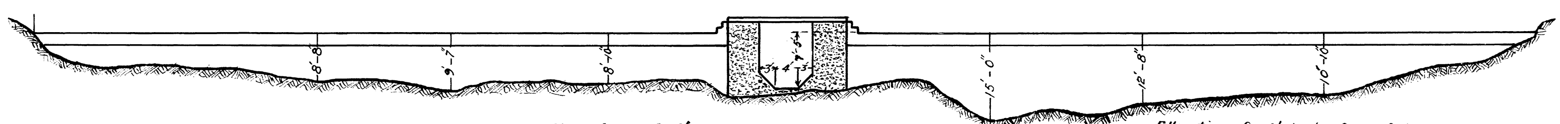
Dam at Outlet of White Lake : Lot 35, Con XVIII, GALWAY.

Scale - 1 in = 20 ft.

No 13.

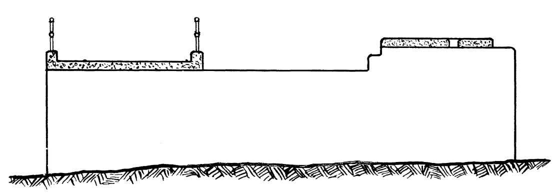


Section CC'
Scale - 1" = 10'



Section AA'

Ellevation of rock under face of dam

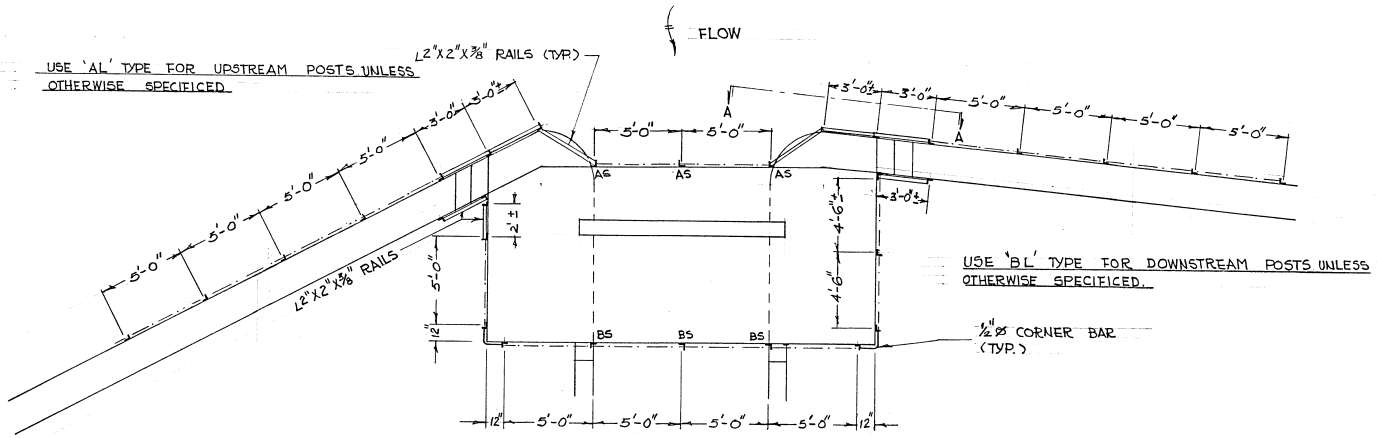


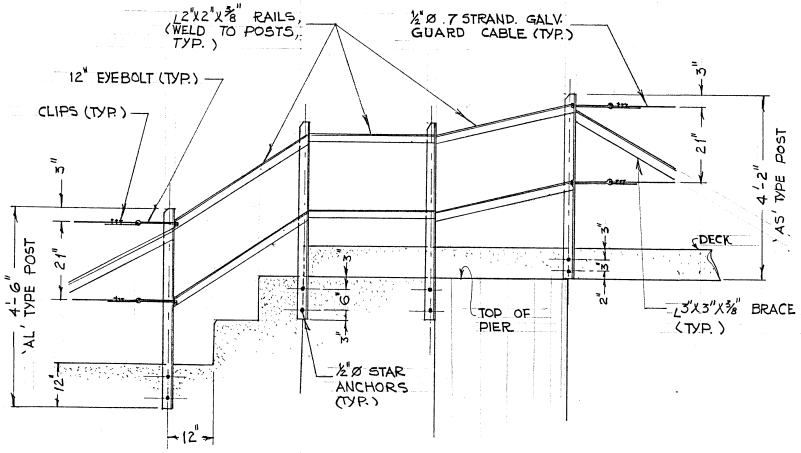
Section BB'
Scale - 1" = 10'.

Built 1912.

D-5-4085 14-29

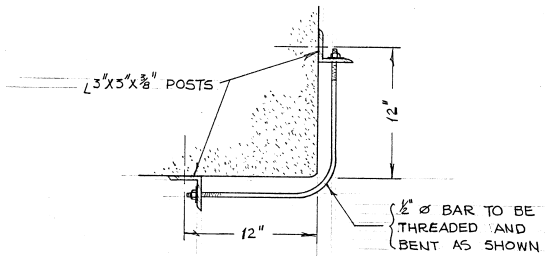
T-11-319.1





VIEW A–A

SCALE: 1/2" = 1'-0"



CORNER BAR DETAIL

SCALE: 1/8" = 1"

NOTE:
1. 'AL', 'BL' TYPES OF POST, SEE DWG. T.S.W. 4605C
2. BRACE REQ'D FOR END AND CORNER POSTS
3. PAINT: ONE SHOP – PRIMER

Indian and Northern Affairs / Affaires indiennes et du Nord — Parks Canada / Parcs Canada

TRENT-SEVERN WATERWAY

TITLE: INSTALLATION GUARD RAIL WHITE'S LAKE DAM

DRAWN BY: B.W.C.
DESIGNED BY:
CHECKED BY:
RESPONSIBLE OFFICER:

SCALE: AS SHOWN
DATE: APR/76.

TSN 4615 C

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Crystal Lake Dam aka Swamp**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Crystal Lake Road		
Topographic Map	-	Coordinates (dd/mm/ss)	N 44° 44' 55"
			W 78° 29' 32"
Drainage basin	-		
Name of watercourse	-	Approximative elevation	- m
Name of lake / reservoir	Crystal Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	4.40	m	Year of construction	1925	
Height of the reservoir	-	m	Year of rehabilitation	-	
Length of structure	31.30	m	Drawings and/or specifications	-	
Area of the reservoir	449	ha			
Storage capacity	-	m^3	Classification (PCA)	Significant	
Catchment area	-	km^2	Overall condition	-	
			Category	-	

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

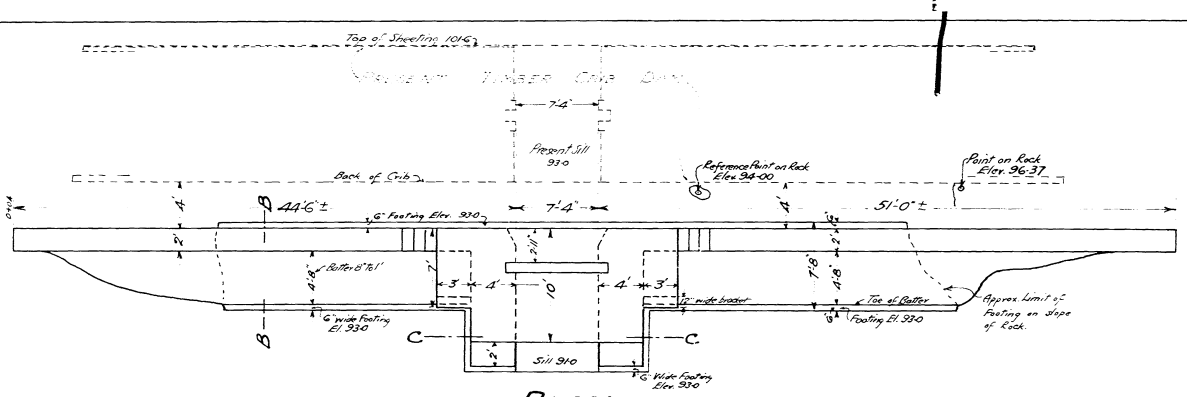
Comments -

SECTION X - REQUIRED DOCUMENTS

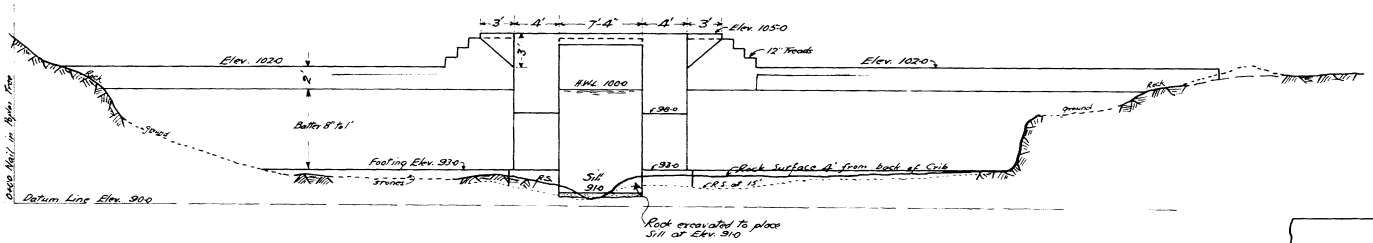
DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

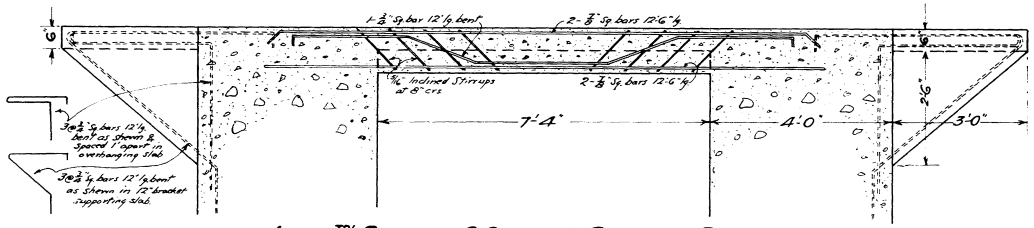
Last Engineering inspection by : - Date : - -



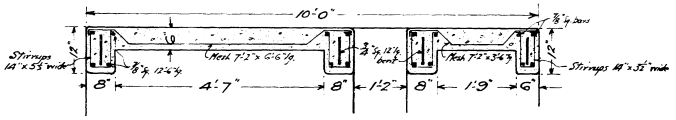
-PLAN-



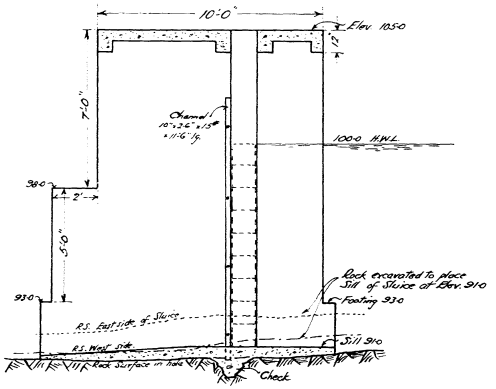
-ELEVATION-
Scale 1/8" = 1'



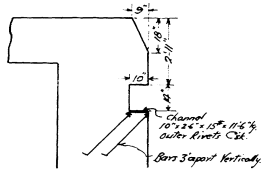
LONGTDL SECTION C-C THRO' STOPLOG PLATFORM
Scale 1/2" = 1'



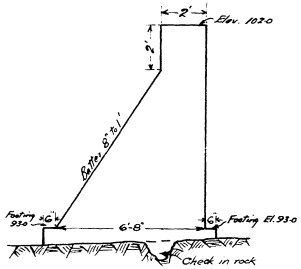
CROSS SECTION THRO' STOPLOG PLATFORM.
Scale 1/2" = 1'



SECTION THRO' SLUICE
shewing West Pier
Scale 1/4" = 1'



DETAIL OF STOPLOG CHECK
Scale 1/4" = 1'



SECTION B-B
Scale 1/4" = 1'

TRENT CANAL

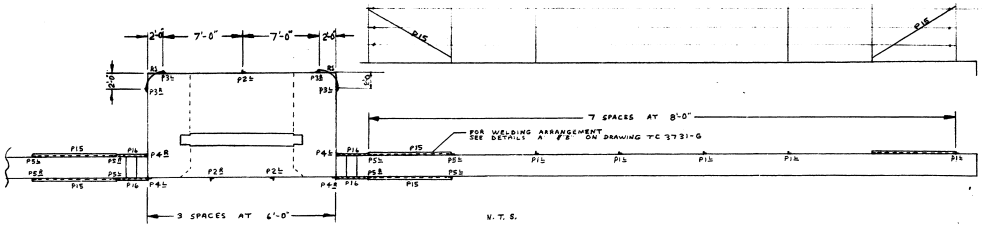
DAM AT OUTLET OF SWAMP LAKE

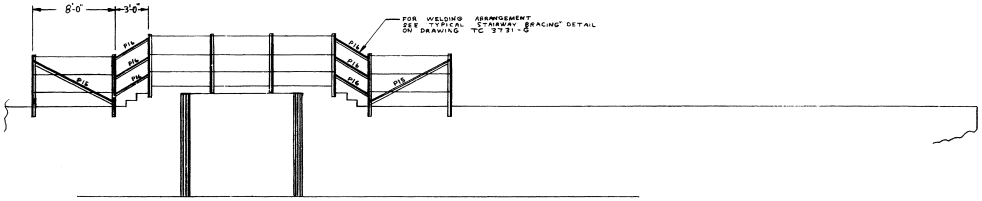
GENERAL PLAN AND DETAILS

Scales as shewn

D-5-4077 T-11-316.1 14-40

Superintendent's Office
Peterborough 19th Sept. 1925





SCALE 3/16" = 1'-0"

6	ANGLE ASSEMBLIES REQUIRED	OPP. HAND	AND NOTED	MRK P1L
1	" " "	AS SHOWN	" "	MRK P2R
2	" " "	OPP. HAND	" "	MRK P2L
2	" " "	AS SHOWN	" "	MRK P3R
2	" " "	OPP. HAND	" "	MRK P3L
2	" " "	AS SHOWN	" "	MRK P4R
3	" " "	OPP. HAND	" "	MRK P4L
5	" " "	AS SHOWN	" "	MRK P5R
		OPP. HAND	" "	MRK P5L

6 RODS REQUIRED AS SHOWN AND NOTED MRK R1
48 - 5/8" ϕ X 12" LONG EYEBOLTS C/W NUT AND WASHER (GALVANIZED)
96 - 1/2" CABLE CLAMPS

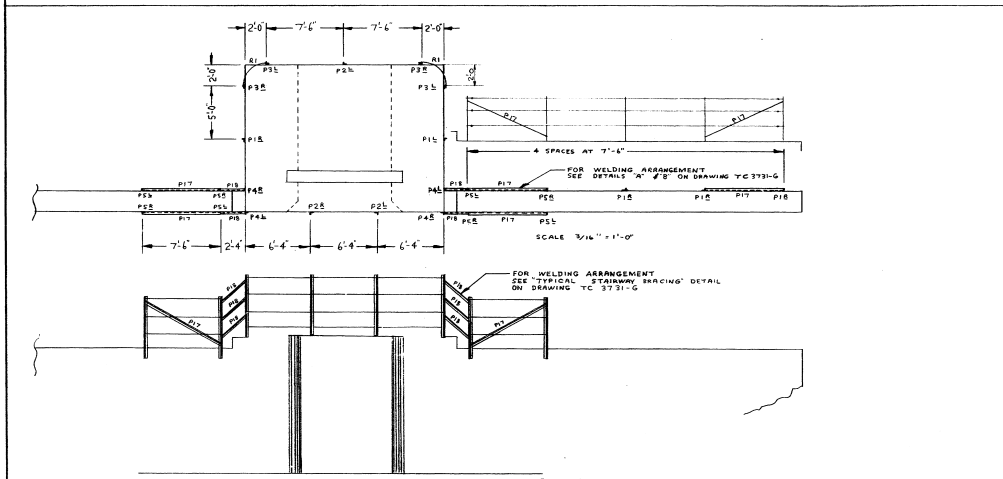
PLAIN MATERIAL :

5 PIECES REQUIRED 3 1/2" x 3 1/2" x 3/8" L
9'-7" LONG MRK P1E (CUT TO SUIT IN FIELD)

12 PIECES REQUIRED 2" X 2" x 1/4" L
4'-2" LONG MRK P16 (CUT TO SUIT IN FIELD)

450 -LIN. FT 1/2" ϕ 1 X 7 WIRE STRAND GUARD RAIL CABLE

DAM AT KOSHLONG LAKE



SCALE 3/16" = 1'-0"

4	ANGLE ASSEMBLIES REQUIRED	OPP. HAND	AND NOTED	MRK P1R
1	" " "	OPP. HAND	" "	MRK P1L
1	" " "	AS SHOWN	" "	MRK P2R
2	" " "	OPP. HAND	" "	MRK P2L
2	" " "	AS SHOWN	" "	MRK P3R
2	" " "	OPP. HAND	" "	MRK P3L
2	" " "	AS SHOWN	" "	MRK P4R
4	" " "	OPP. HAND	" "	MRK P4L
4	" " "	AS SHOWN	" "	MRK P5R
4	" " "	OPP. HAND	" "	MRK P5L

6 RODS REQUIRED AS SHOWN AND NOTED MRK R1
48 - 5/8" ϕ X 12" LONG EYEBOLTS C/W NUT AND WASHER (GALVANIZED)
96 - 1/2" CABLE CLAMPS

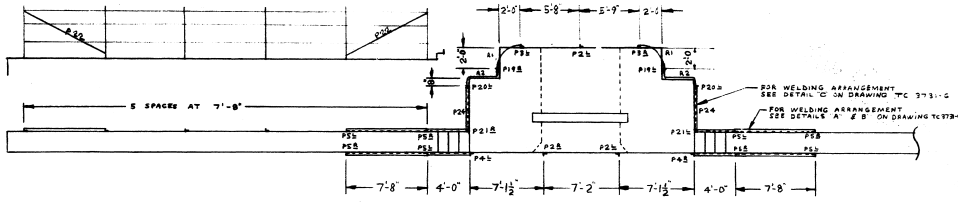
PLAIN MATERIAL :

5 PIECES REQUIRED 3 1/2" X 3 1/2" X 3/8" L
9'-0" LONG MRK P17 (CUT TO SUIT IN FIELD)

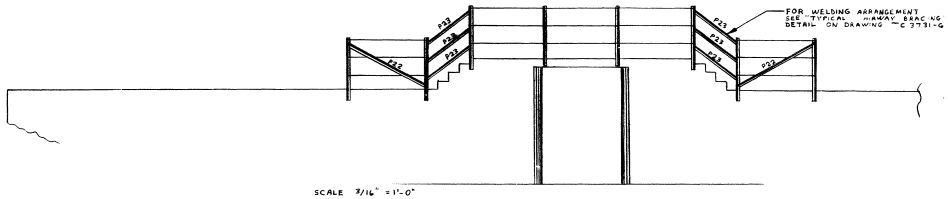
12 PIECES REQUIRED 2" X 2" X 1/4" L
3'-7" LONG MRK P18 (CUT TO SUIT IN FIELD)

390 -LIN. FT. 1/2" ϕ 1 X 7 WIRE STRAND GUARD RAIL CABLE

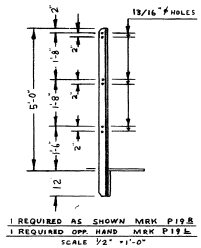
DAM AT FARQUHAR LAKE



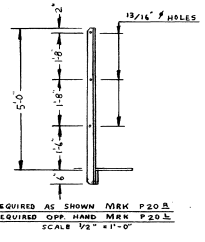
SCALE 3/16" = 1'-0"



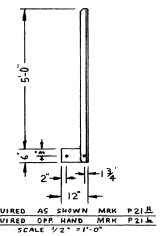
SCALE 3/16" = 1'-0"



1 REQUIRED AS SHOWN MRK P19R
1 REQUIRED OPP. HAND MRK P19L
SCALE 1/2" = 1'-0"



1 REQUIRED AS SHOWN MRK P20R
1 REQUIRED OPP. HAND MRK P20L
SCALE 1/2" = 1'-0"



1 REQUIRED AS SHOWN MRK P21R
1 REQUIRED OPP. HAND MRK P21L
SCALE 1/2" = 1'-0"

4	ANGLE ASSEMBLIES REQUIRED	OPP. HAND	AND NOTED	MRK P1L
1	" " "	AS SHOWN	" "	MRK P2R
2	" " "	OPP. HAND	" "	MRK P2L
1	" " "	AS SHOWN	" "	MRK P3R
1	" " "	OPP. HAND	" "	MRK P3L
1	" " "	AS SHOWN	" "	MRK P4R
1	" " "	OPP. HAND	" "	MRK P4L
4	" " "	AS SHOWN	" "	MRK P5R
4	" " "	OPP. HAND	" "	MRK P5L

6 RODS REQUIRED AS SHOWN MRK R1
6 RODS REQUIRED AS SHOWN MRK R2
96 -5/8" ϕ X 12" LONG EYEBOLTS C/W NUT AND WASHER (GALVANIZED)
72 - 1/2" CABLE CLAMPS
350 -LIN. FT. 1/2" ϕ 1 X 7 WIRE STRAND GUARD RAIL CABLE

PLAIN MATERIAL :

5 PIECES REQUIRED 3 1/2" x 3 1/2" X 3/8" L
9'-3" LONG MRK P22 (CUT TO SUIT IN FIELD)

12 PIECES REQUIRED 2" X 2" X 1/4" L
5'-6" LONG MRK P23 (CUT TO SUIT IN FIELD)

6 PIECES REQUIRED 2" X 2" X 1/4" L
4'-10" LONG MRK P24 (CUT TO SUIT IN FIELD)

DAM AT SWAMP LAKE

SHEET 2 OF 6
WORK THIS DRAWING WITH T.C. 3731-G

ALL HOLES 11/16" ϕ UNLESS OTHERWISE NOTED
ALL ANGLES 3 1/2" X 3 1/2" X 3/8" UNLESS OTHERWISE NOTED
PAINT - ONE SHOP COAT

DEPARTMENT OF TRANSPORT

MARINE WORKS
CANALS DIVISION
TRENT CANAL SYSTEM

GUARD RAILS FOR :
DAM AT KOSHLONG LAKE
DAM AT FARQUHAR LAKE
DAM AT SWAMP LAKE

SCALE: AS NOTED
DESIGN: J F P
DRAWN: J F P
CHECKED: C. J. S.

DATE: JAN 31/69

SUPERINTENDING ENGINEER

T.C. 3732-G

DATE:	REVISIONS:	MADE:	CH'CK'D:

T-14-173.2

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Anstruther Lake Dam aka Eagle**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Southwest Side of Anstruther Lake		
Topographic Map	-	Coordinates (dd/mm/ss)	N 44° 43' 31"
			W 78° 14' 25"
Drainage basin	0		
Name of watercourse	Mississauga River	Approximative elevation	- m
Name of lake / reservoir	Gold Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive	Phone	(705) 750-4407
	Peterborough, Ontario, K9J 6Z6	Cellular	(705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	5.40	m	Year of construction	1961
Height of the reservoir	-	m	Year of rehabilitation	-
Length of structure	39.30	m	Drawings and/or specifications	-
Area of the reservoir	621	ha		
Storage capacity	-	m^3	Classification (PCA)	Significant
Catchment area	-	km^2	Overall condition	-
			Category	-

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

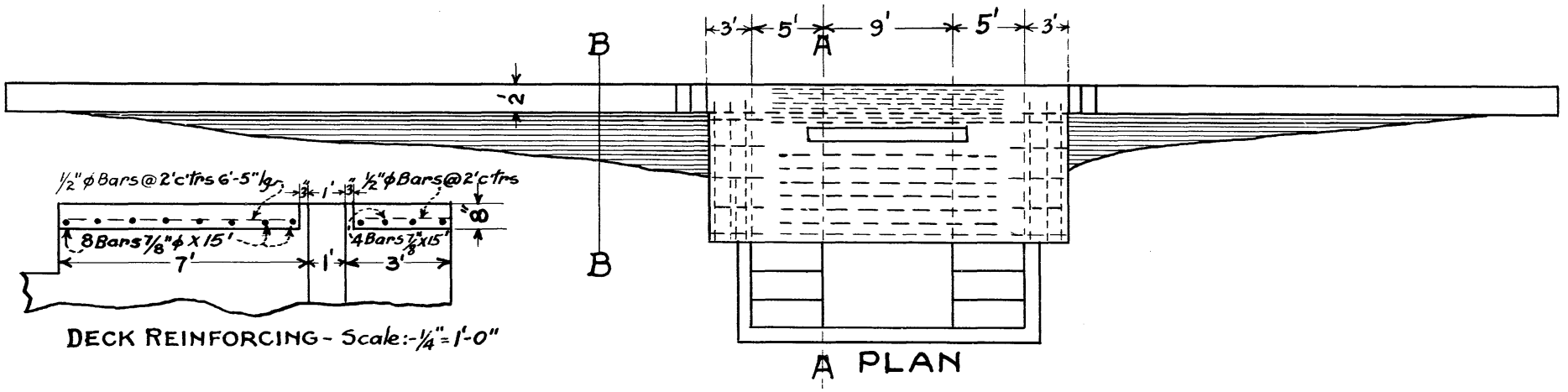
Comments -

SECTION X - REQUIRED DOCUMENTS

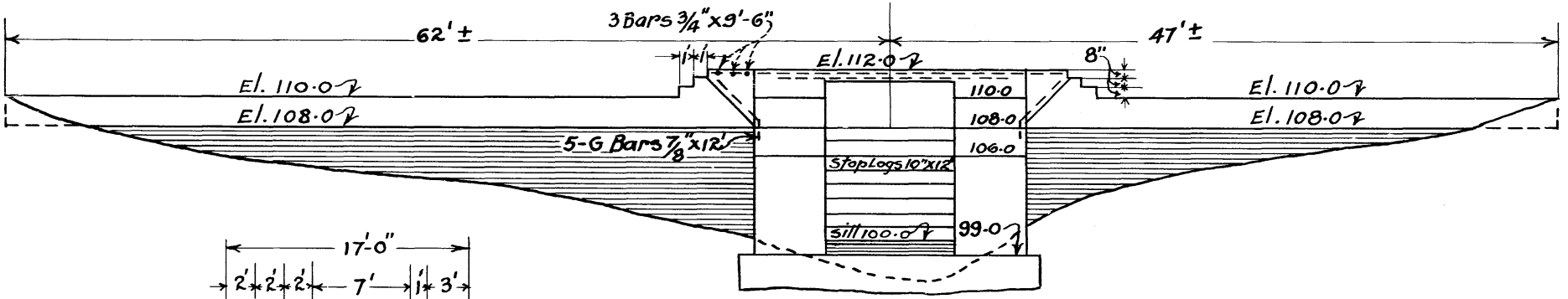
DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

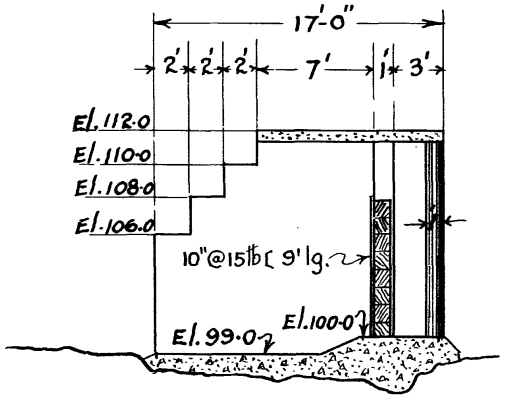
Last Engineering inspection by : - Date : - -



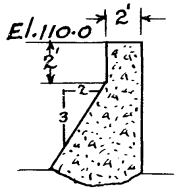
DECK REINFORCING - Scale:- ¼" = 1'-0"



ELEVATION.



SECTION A-A



SEC. B-B

DEPARTMENT OF TRANSPORT,
TRENT CANAL.

RESERVOIR LAKE DAMS.

PROPOSED NEW CONCRETE DAM AT

EAGLE LAKE.

LOT 3, CON II, ANSTRUTHER.

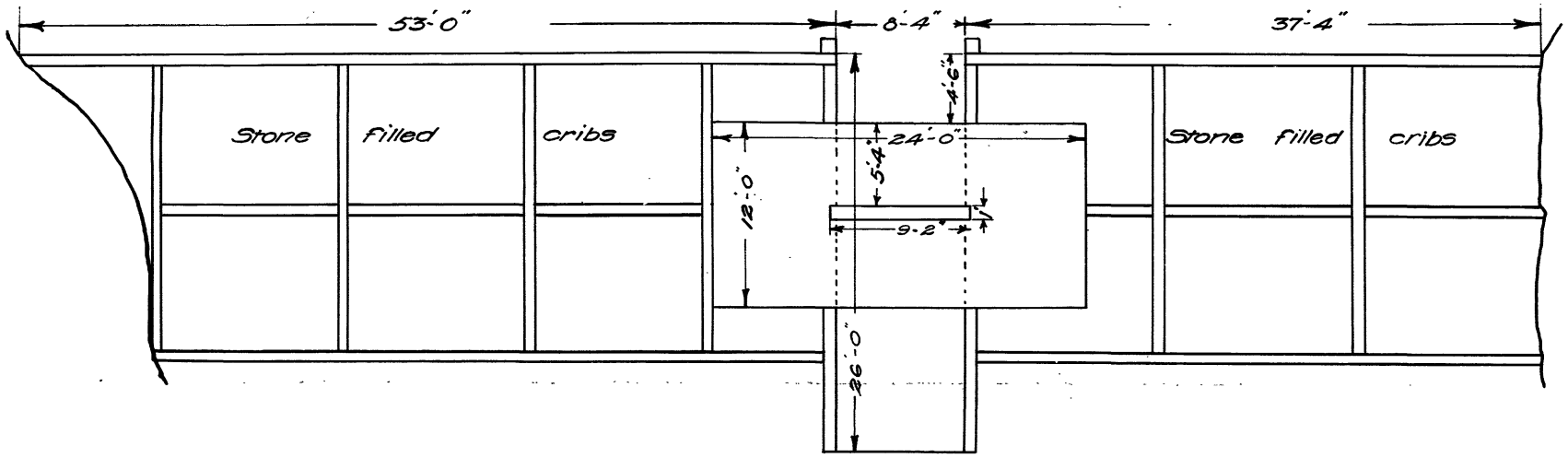
scale:- 1 in = 10 ft.

T-11-214

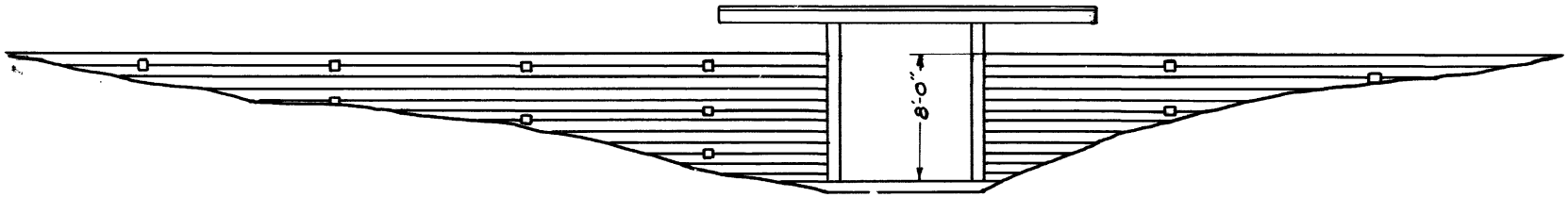
Peterborough, Ont.
January 12th 1945.

T.C.896-A

T.C.896-A



PLAN



ELEVATION

TRENT CANAL
RESERVOIR DAMS
EAGLE LAKE DAM
LOT 3 CON. II. ANSTRUTHER

Scale – 1 inch = 8 Feet.

Lake area 1354 Acres Storage depth 7'-6"

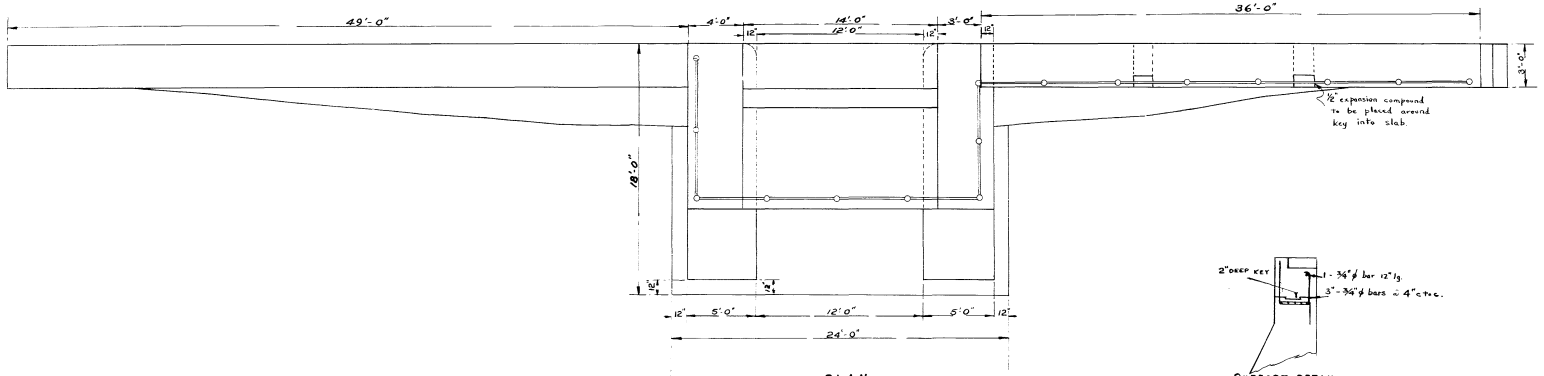
Note:– This drawing made from field notes sketches by C. Robertson Oct. 8th 1913, and J.P. McGrath, May 29th 1929.

T-11-214-5

T.C. 892-B

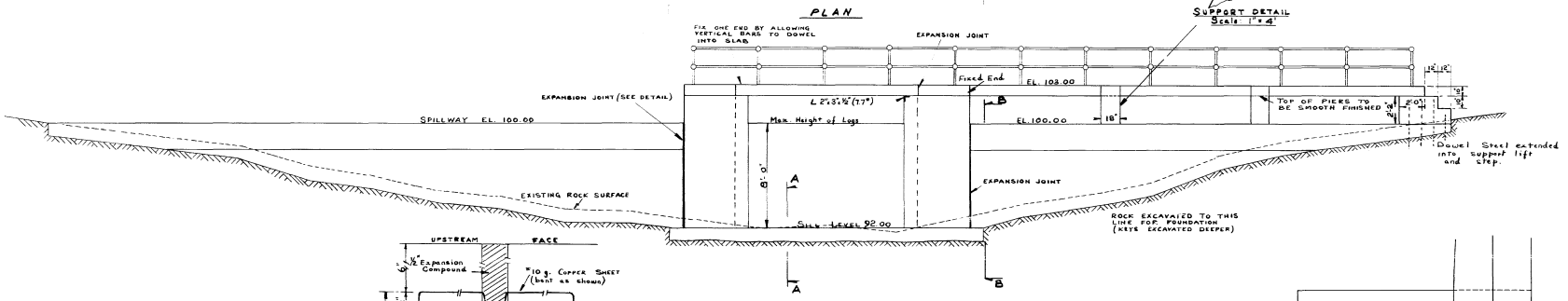
Peterborough, March 14th 1931.

TC 892-A

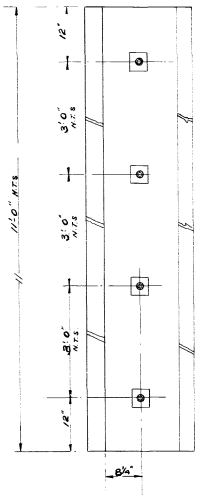


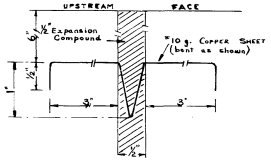
PLAN

SUPPORT DETAIL
Scale 1" = 1'

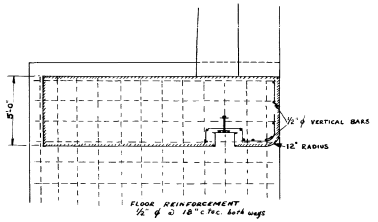


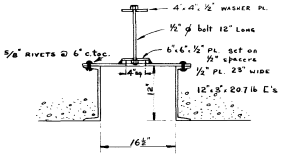
ELEVATION OF DOWNSTREAM FACE
Scale :- 1 inch = 4 feet





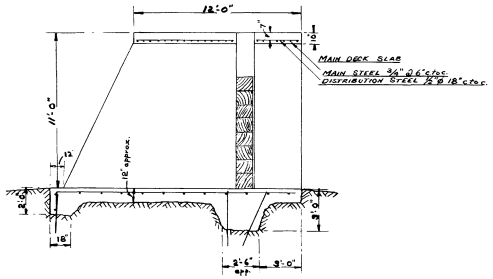
EXPANSION JOINT DETAIL
Scale : Full Size.



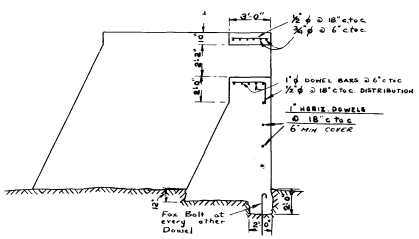


DETAIL OF GAINS
Scale : 1 inch = 1 foot

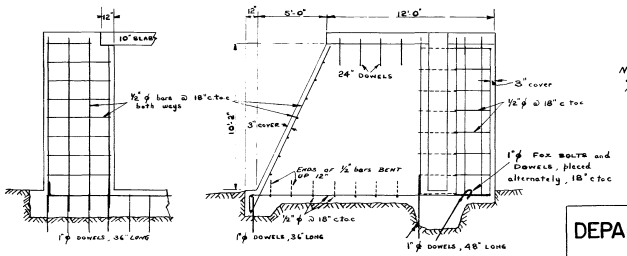
NOTE : Where bars are joined because of insufficient length, the two bars must be overlapped by 12" minimum



SECTION A-A
Scale : 1 inch = 4 feet



SECTION B-B
Scale 1 inch = 4 feet



DETAIL OF MAIN PIERS (interior West)
Scale : 1 inch = 4 feet

SUPERSEDED BY T.C. 2515 G

DEPARTMENT OF TRANSPORT
MARINE SERVICES
TRENT CANAL SYSTEM

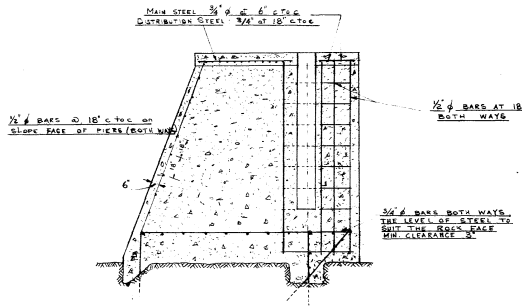
ANSTRUTHER (EAGLE) LAKE
PROPOSED NEW DAM

DATE : Dec 2 1959
SCALE : As Shown

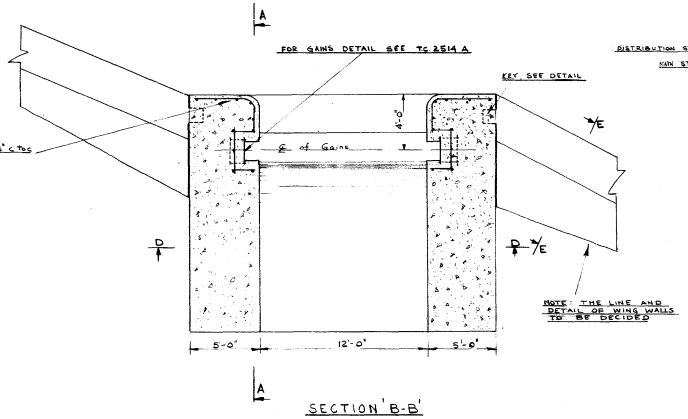
MADE : K.O.
TR'C'D :
C'H'K'D :
APP'D :

T.C. 2393 - G.

T-H-2146

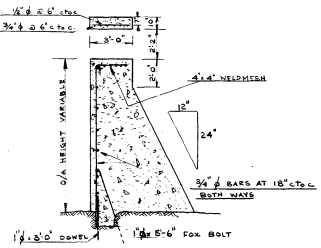


SECTION 'A-A'

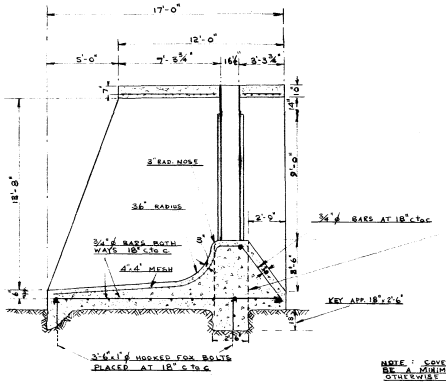


SECTION 'B-B'

Scales : 1/4" = 1'



SECTION 'E-E'



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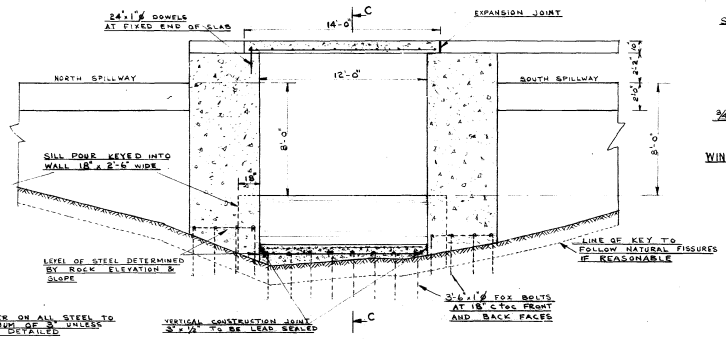
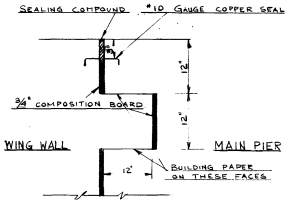
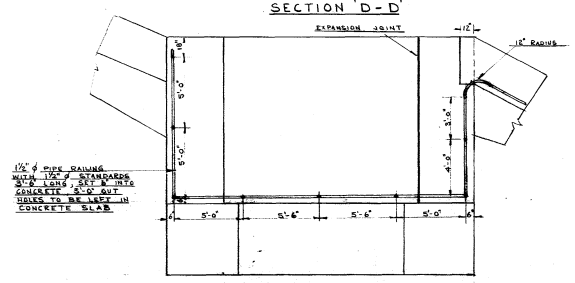




Detail of key and expansion joint
(Scale 1" = 1')

SECTION 'D-D'



PLAN : RAILING DETAIL

NOTES : ANY JOINTS BETWEEN POURS ARE TO BE ADEQUATELY KEYED AND SEALED. TO ENSURE PROPER BOND THE SURFACE OF PREVIOUS LIFT IS TO BE PRIMED WITH A PASTE OF NEAT CEMENT PRIOR TO THE NEXT POUR.

Not As Built K.O.

THIS DRAWING SUPERSEDES T.C. 2393-G

DEPARTMENT OF TRANSPORT
MARINE WORKS
TRENT CANAL SYSTEM

ANSTRUTHER (EAGLE) LAKE
PROPOSED NEW DAM

DATE : Aug 25.1960
SCALE : As shown

MADE : K.O.
TRCD : K.O.
CHKD :
APPD :

T.C. 2515-G

TW 2147

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Mississagua Lake Dam (aka Gull)**	AMS Number :	**11400**
Comments / Description	Concrete Gravity Dam (+?)		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Mississagua dam Rd via Route 507 and CR 36		
Topographic Map	031D09 (Burleigh Falls)	Coordinates (dd/mm/ss)	N 44° 41' 11"
			W 78° 19' 46"
Drainage basin	Trent River		
Name of watercourse	Mississagua River	Approximative elevation	≈ 295 m
Name of lake / reservoir	Mississagua Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	10.67	m	Year of construction	1930
Height of the reservoir	9.50	m	Year of rehabilitation	-
Length of structure	101.50	m	Drawings and/or specifications	Available
Area of the reservoir	2061	ha		
Storage capacity	≈ 185M	m^3	Classification (PCA)	High A
Catchment area	-	km^2	Overall condition	C
			Category	Regulated Dam

Main use(s): Navigation Storage

Replacement cost: 94900 *according to AMS Data dating from :* 1997

Deffered Maintenance: -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

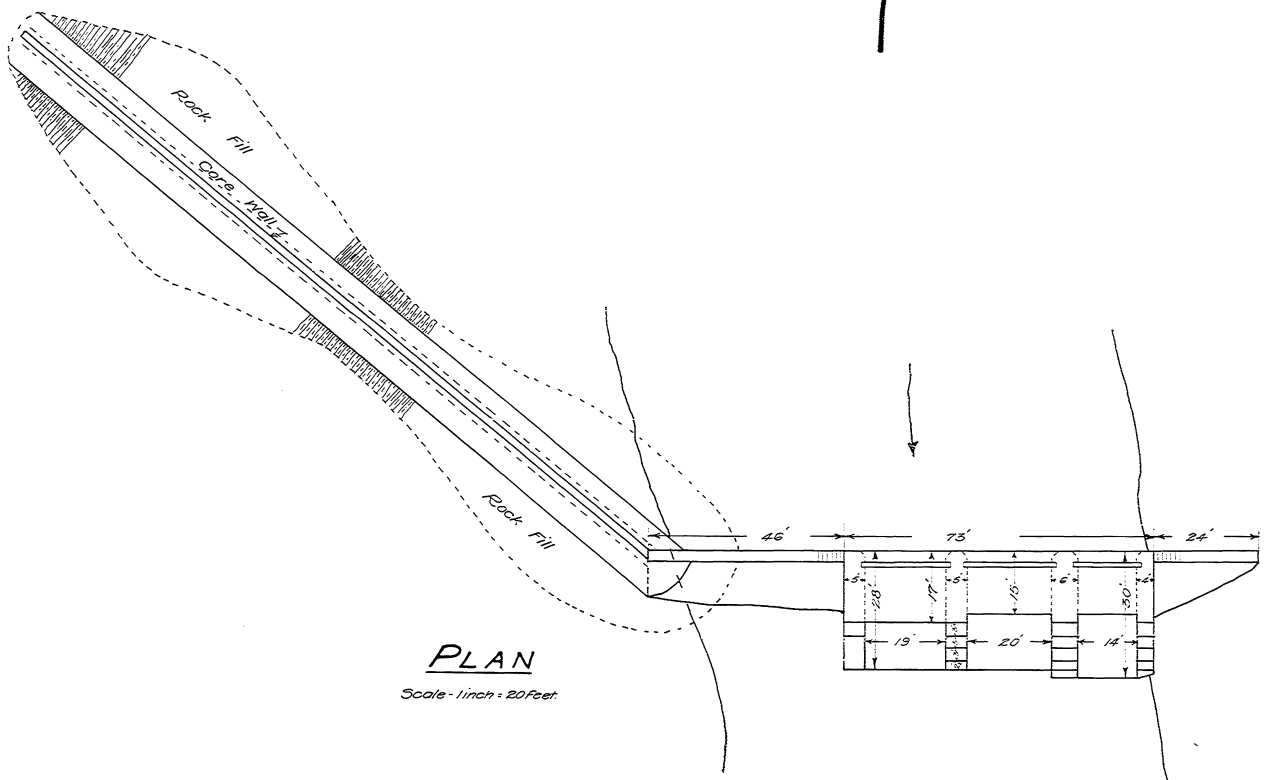
Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

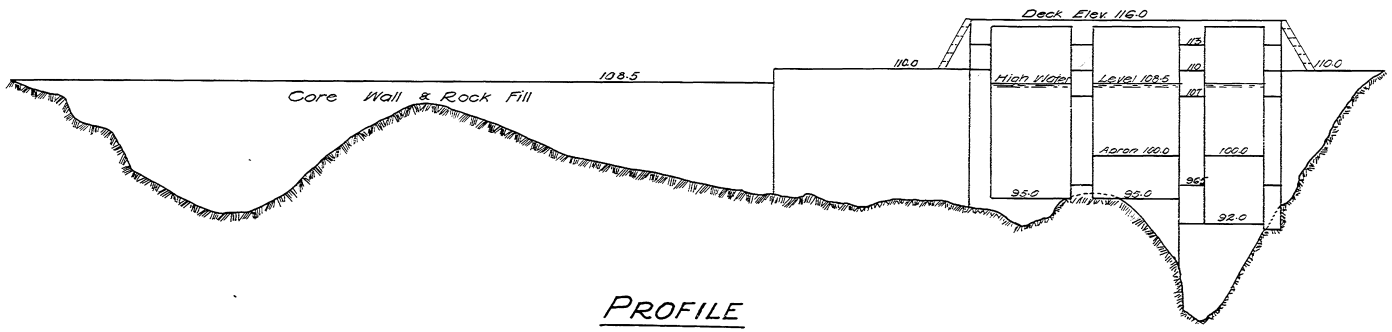
Comments -

Last Engineering inspection by : - Date : - -



PLAN

Scale - 1 inch = 20 Feet



PROFILE

Scales: Hor. 1" = 20'
Ver. 1" = 10'

TRENT CANAL

PLAN OF

MISSISSAUGA LAKE DAM

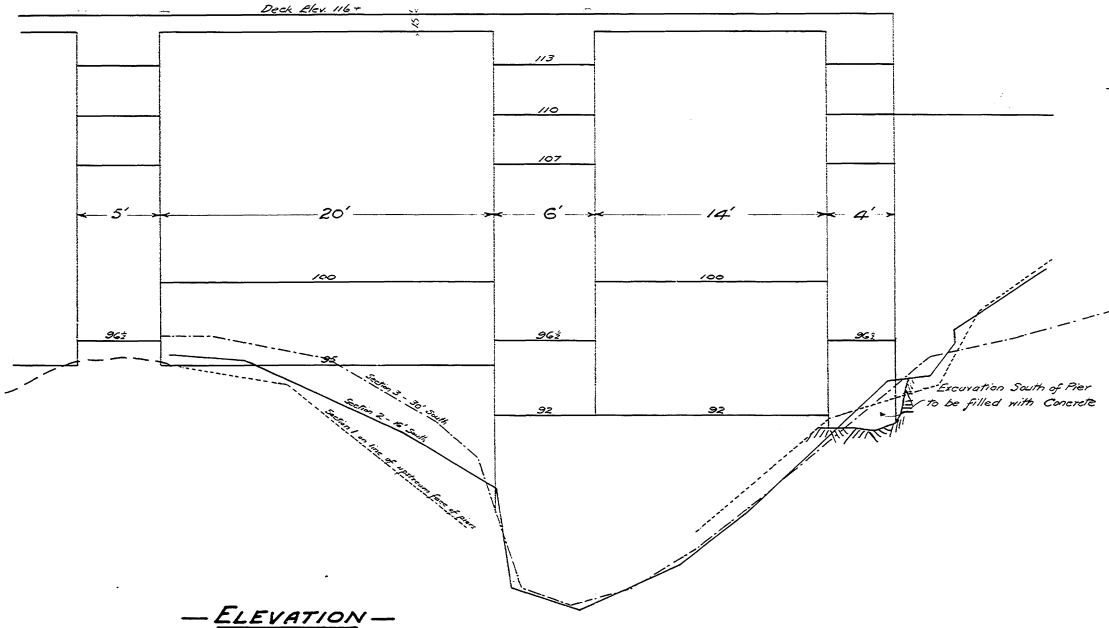
Scales -- As shown

Peterborough, Sept 26, 1930

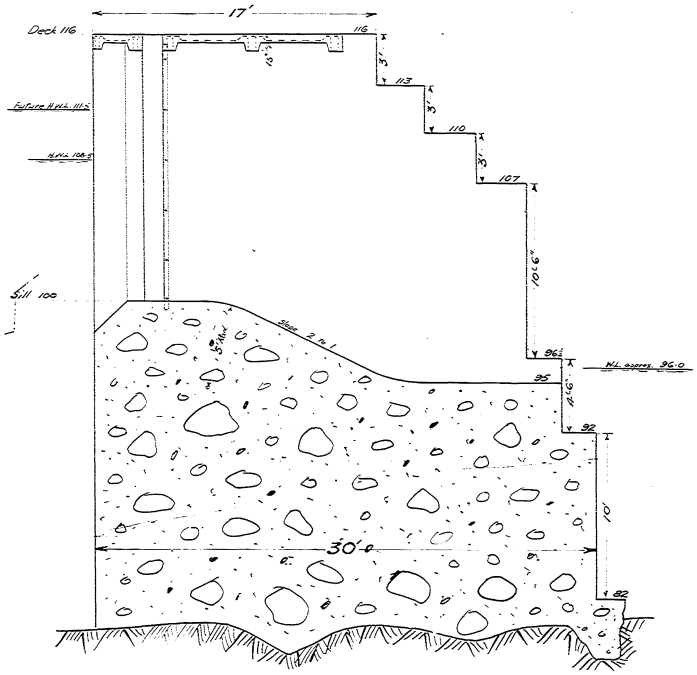
D-5-4074

T-11-315.2

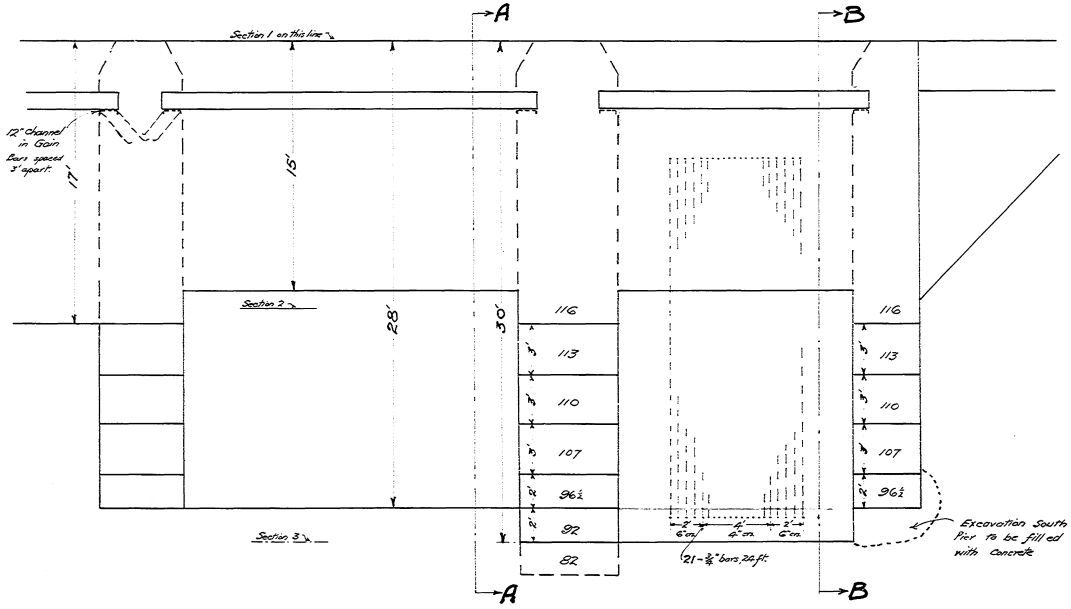
D-5-4074



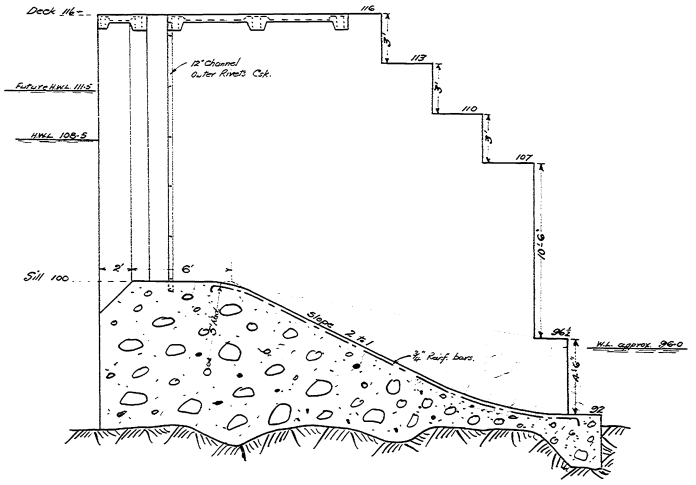
— ELEVATION —



— SECTION A-A —



— PLAN —



— SECTION B-B —
Log Slide

— MISSISSAUGA DAM —
East and Centre Piers

Scale 1 in = 5 ft.

Ins. 12 6 0 1 2 3 4 5 10 15 20 Feet

D-5-4075

T-11-315.3

Superintendent's Office, Trent Canal, Peterborough, Sept. 1921.

14-43A

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Scotts Mill Dam Mississagua River**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	County Rd 36		
Topographic Map	-	Coordinates (dd/mm/ss)	N 44° 35' 00"
			W 78° 21' 35"
Drainage basin	-		
Name of watercourse	Mississagua River	Approximative elevation	- m
Name of lake / reservoir	-		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	-	m	Year of construction	-
Height of the reservoir	-	m	Year of rehabilitation	-
Length of structure	-	m	Drawings and/or specifications	-
Area of the reservoir	-	ha		
Storage capacity	-	m^3	Classification (PCA)	Other
Catchment area	-	km^2	Overall condition	-
			Category	-

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

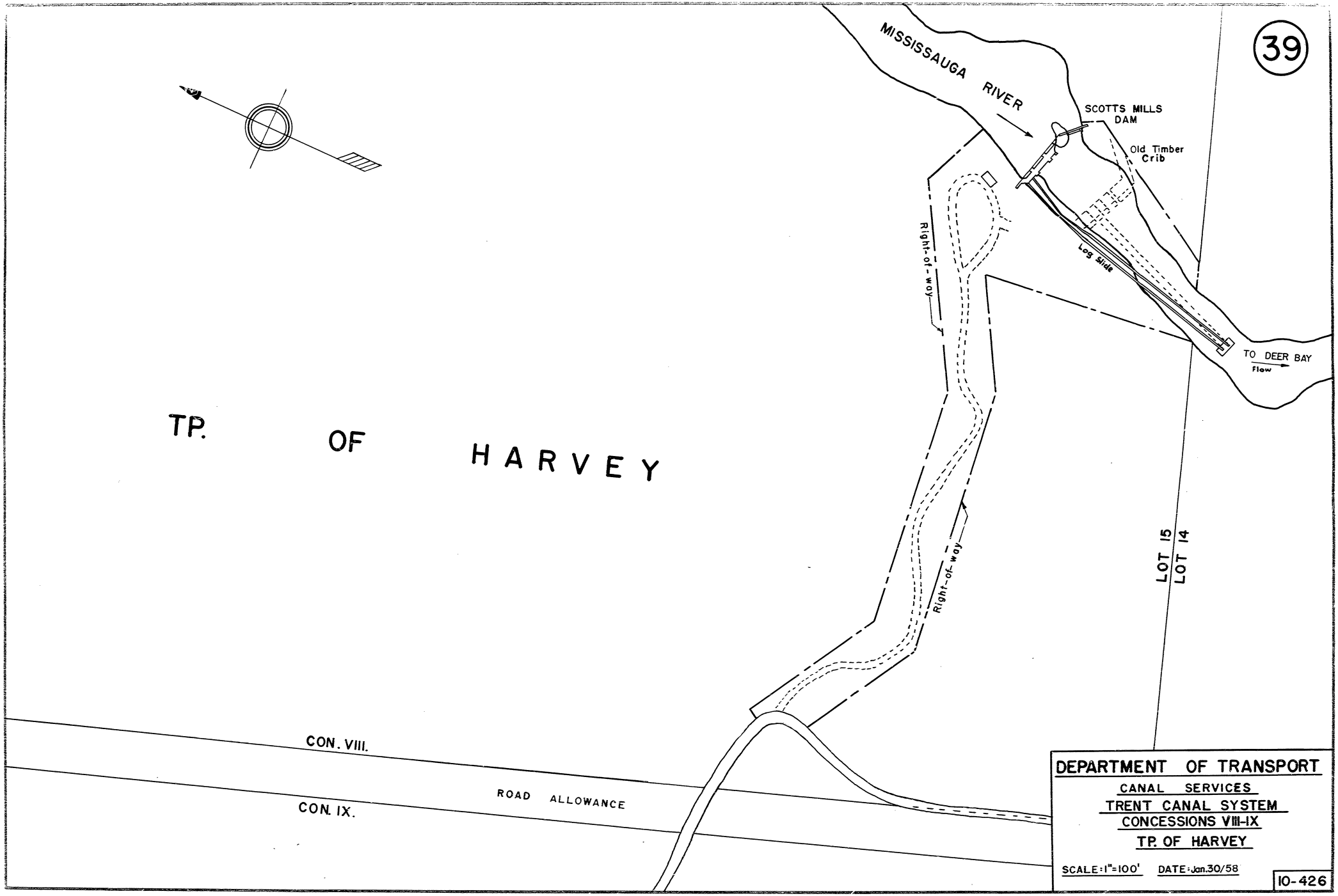
Comments -

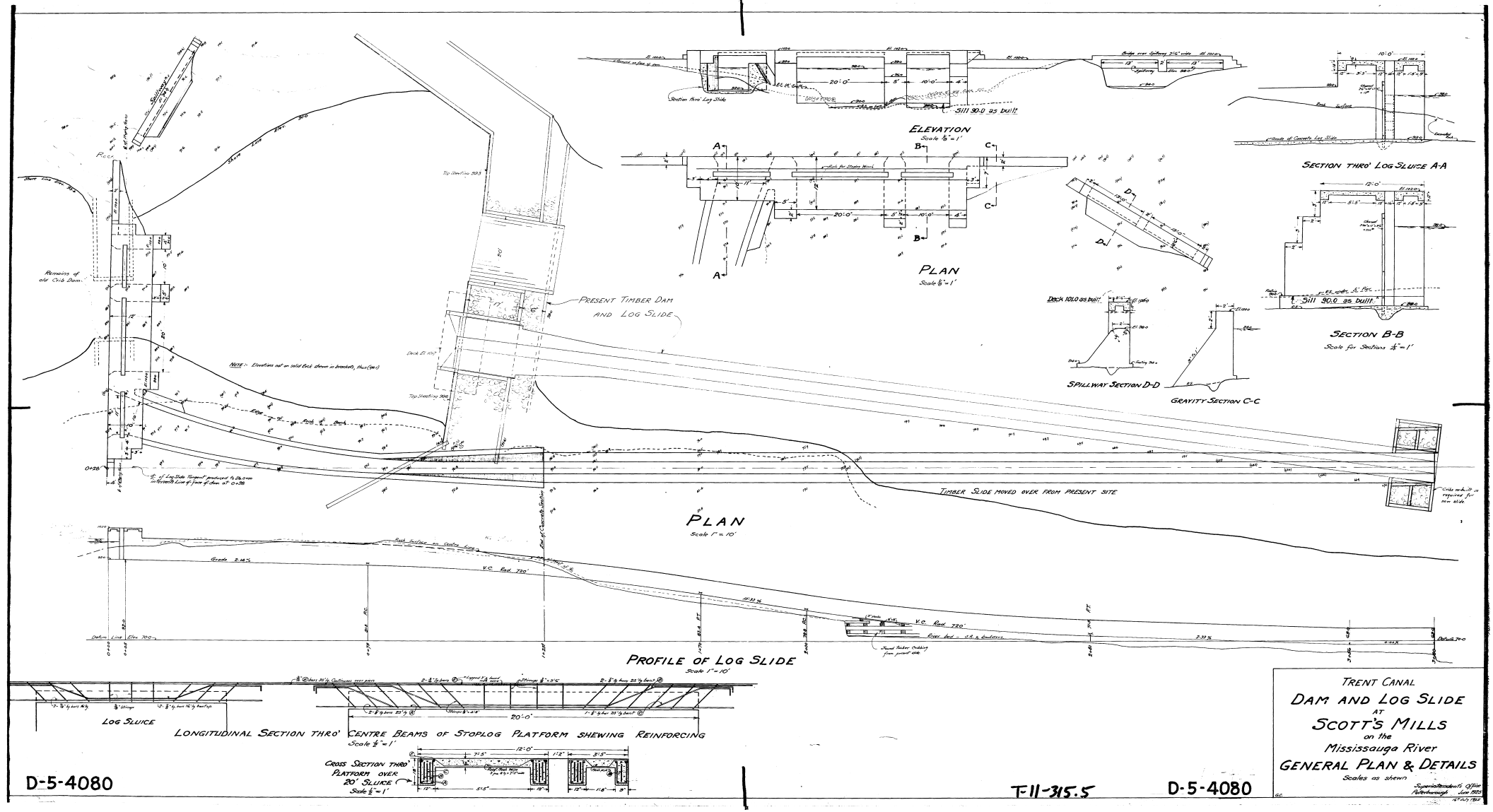
SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

Last Engineering inspection by : - Date : - -


39
MISSISSAUGA RIVER
SCOTTS MILLS DAM
Old Timber Crib
Log Slide
Right-of-way
TO DEER BAY
Flow
TP. OF HARVEY
LOT 15
LOT 14
Right-of-way
CON. VIII.
ROAD ALLOWANCE
CON. IX.
DEPARTMENT OF TRANSPORT
CANAL SERVICES
TRENT CANAL SYSTEM
CONCESSIONS VIII-IX
TP. OF HARVEY
SCALE: 1"=100'
DATE: Jan. 30/58
10-426



ELEVATION
Scale 1/8" = 1'

PLAN
Scale 1/8" = 1'

PLAN
Scale 1" = 10'

PROFILE OF LOG SLIDE
Scale 1" = 10'

LONGITUDINAL SECTION THRO' CENTRE BEAMS OF STOPLOG PLATFORM SHEWING REINFORCING
Scale 1/2" = 1'

TRENT CANAL

DAM AND LOG SLIDE AT SCOTT'S MILLS on the Mississauga River

GENERAL PLAN & DETAILS

Scales as shewn

Superintendent's Office
Peterborough
June 1925

D-5-4080

T-11-315.5

D-5-4080

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Eels Lake East Dam**	AMS Number :	**11400**
Comments / Description	Concrete Gravity Dam		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Fire Route 75 via Eels Lake Rd and CR 28		
Topographic Map	031D16 (Gooderham)	Coordinates (dd/mm/ss)	N 45° 52' 48"
			W 78° 07' 15"
Drainage basin	Eels Creek		
Name of watercourse	Eels Creek	Approximative elevation	≈ 351 m
Name of lake / reservoir	Eels Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	5.49	m	Year of construction	1947
Height of the reservoir	5.00	m	Year of rehabilitation	-
Length of structure	34.75	m	Drawings and/or specifications	Available
Area of the reservoir	815	ha		
Storage capacity	≈ 35M	m^3	Classification (PCA)	High
Catchment area	-	km^2	Overall condition	A
			Category	Regulated Dam

Main use(s)	Navigation		
Replacement cost	79500	*according to AMS Data dating from :*	1997
Deffered Maintenance	-		

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

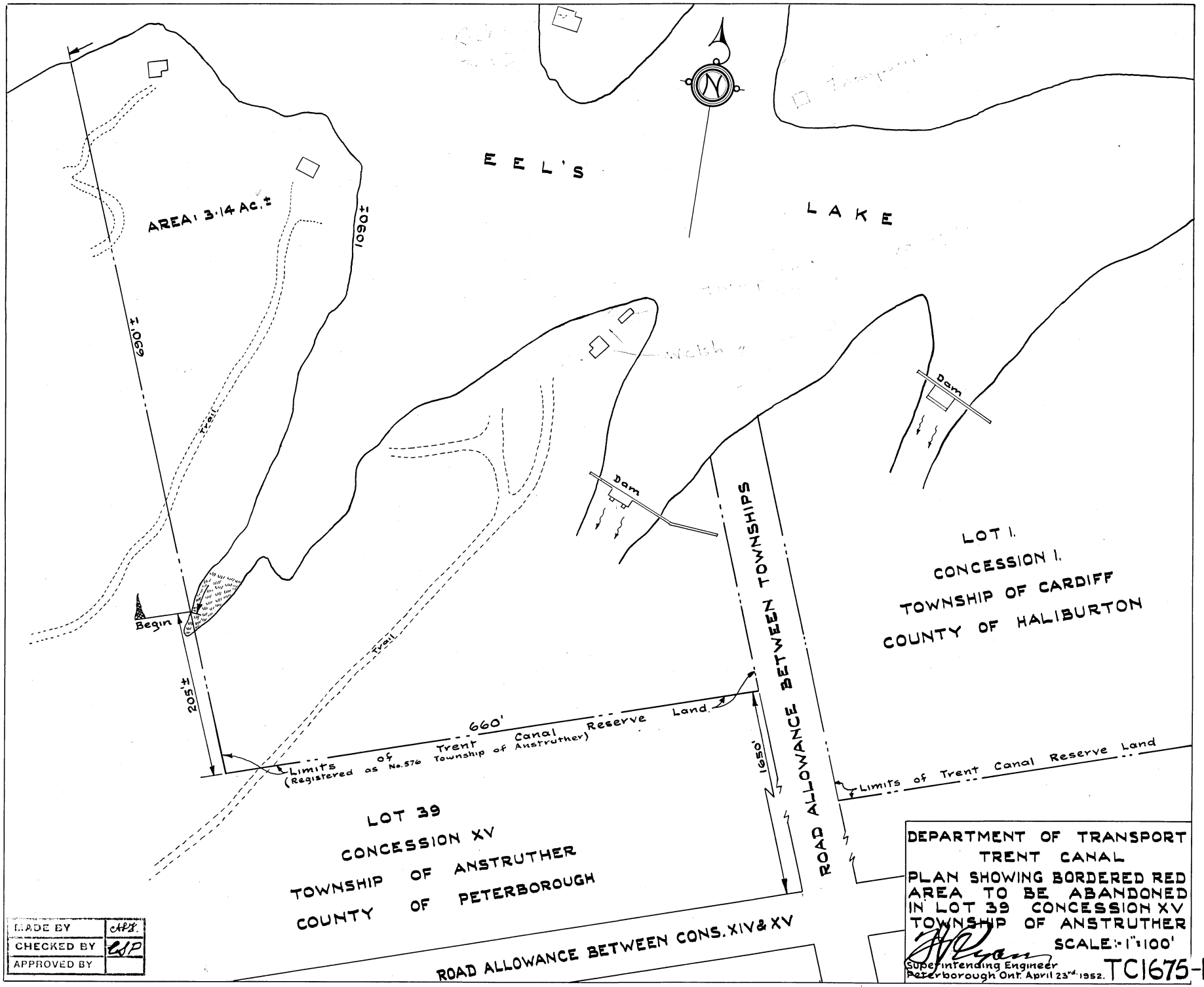
Comments -

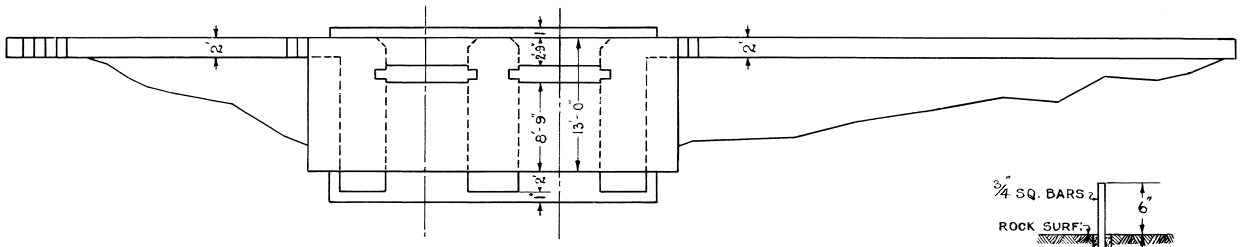
SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

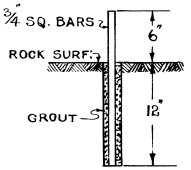
Comments -

Last Engineering inspection by : - Date : - -

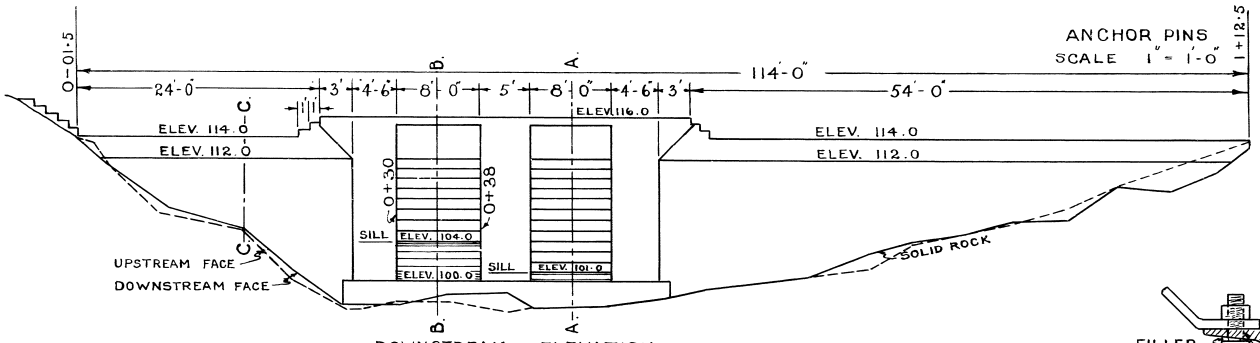

EEL'S LAKE
AREA: 3.14 AC.±
1090±
1069±
Trail
Trail
Begin
205'±
660'
Limits of Trent Canal Reserve Land
(Registered as No. 576 Township of Anstruther)
Dam
Dam
ROAD ALLOWANCE BETWEEN TOWNSHIPS
1650'
Limits of Trent Canal Reserve Land
LOT 1.
CONCESSION I.
TOWNSHIP OF CARDIFF
COUNTY OF HALIBURTON
LOT 39
CONCESSION XV
TOWNSHIP OF ANSTRUTHER
COUNTY OF PETERBOROUGH
ROAD ALLOWANCE BETWEEN CONS. XIV & XV
MADE BY APX.
CHECKED BY EJP
APPROVED BY
DEPARTMENT OF TRANSPORT
TRENT CANAL
PLAN SHOWING BORDERED RED AREA TO BE ABANDONED IN LOT 39 CONCESSION XV TOWNSHIP OF ANSTRUTHER
SCALE: 1" = 100'
Superintending Engineer
Peterborough Ont. April 23rd 1952.
TC1675-B
T-39-1183



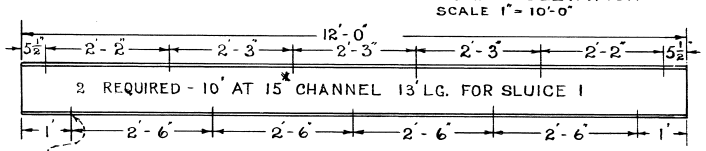
PLAN
SCALE 1" = 10'-0"

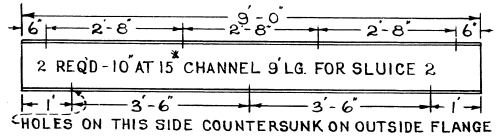


ANCHOR PINS
SCALE 1" = 1'-0"

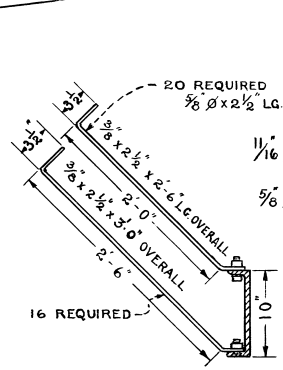


DOWNSTREAM ELEVATION
SCALE 1" = 10'-0"

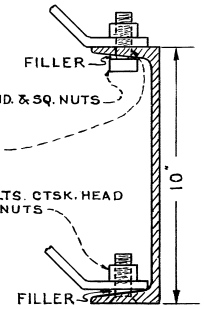




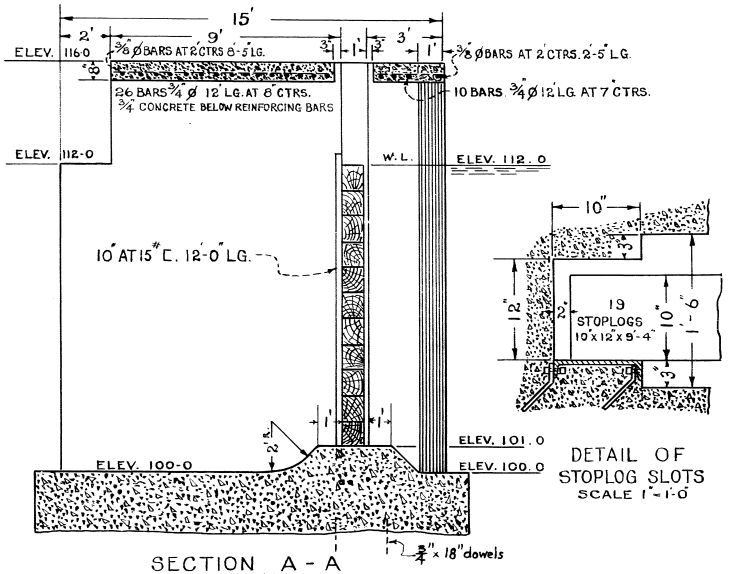
CHANNELS FOR STOPLOG SLOTS IN SLUICES
SCALE 1/2" = 1'-0"



ANCHORS FOR CHANNELS
SCALE 1" = 1'-0"

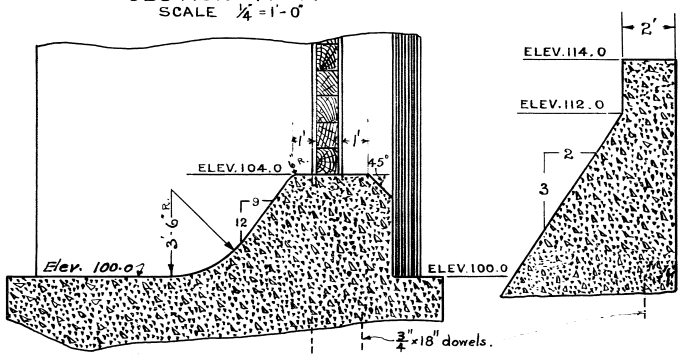


DETAIL OF CHANNEL
SCALE 3" = 1'-0"



SECTION A - A
SCALE 1/4" = 1'-0"

DETAIL OF STOPLOG SLOTS
SCALE 1" = 1'-0"



PART SECTION B - B
SCALE 1/4" = 1'-0"

SECTION C - C
SCALE 1/4" = 1'-0"

DRAWN BY	E.W.G.
TRACED BY	H.W.H.
CHECKED BY	
RECOMMENDED BY	
APPROVED BY	

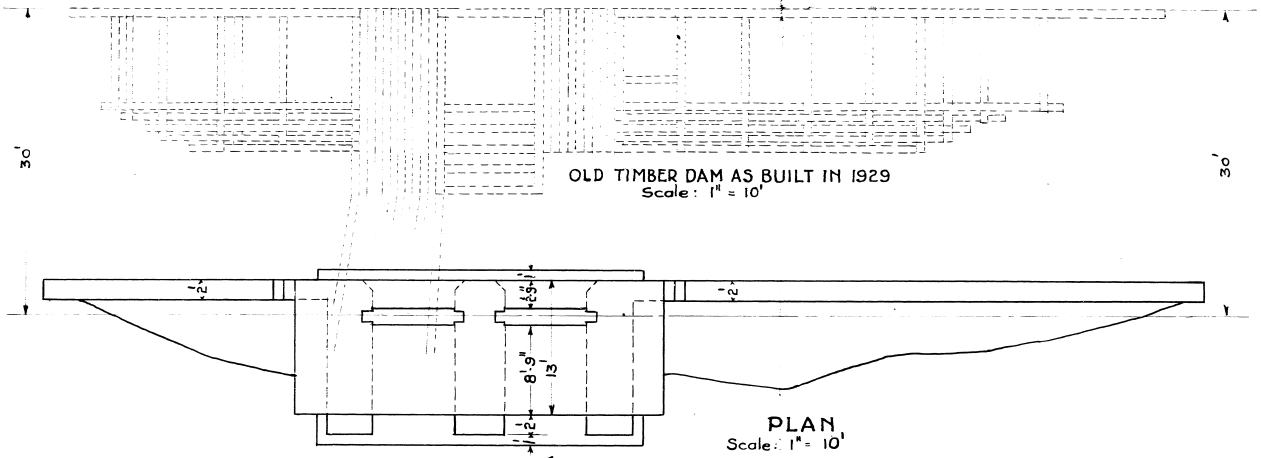
TRENT CANAL

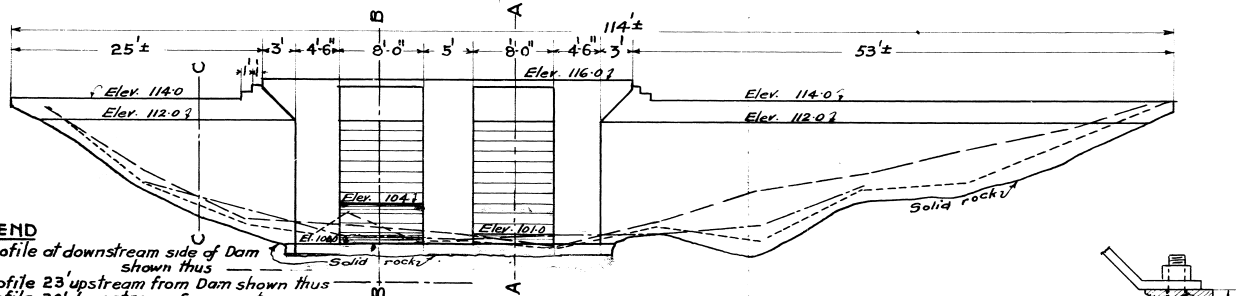
EELS LAKE DAMS

EAST DAM
NEW CONCRETE DAM
AS CONSTRUCTED
1946-47
SCALE AS INDICATED T-11-233.6

PETERBOROUGH. ONT.
MAR: 3RD 1948

T.C.1146-C





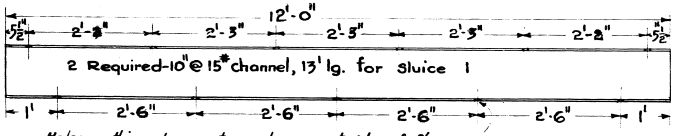
LEGEND

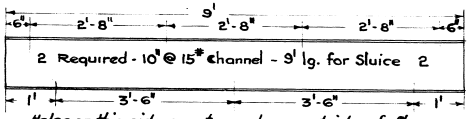
Profile at downstream side of Dam shown thus ——

Profile 23' upstream from Dam shown thus — — —

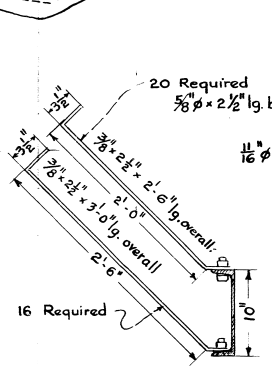
Profile 30' downstream from upstream side of Dam shown thus ------

DOWNSTREAM ELEVATION
Scale: 1" = 10'

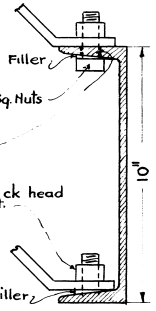




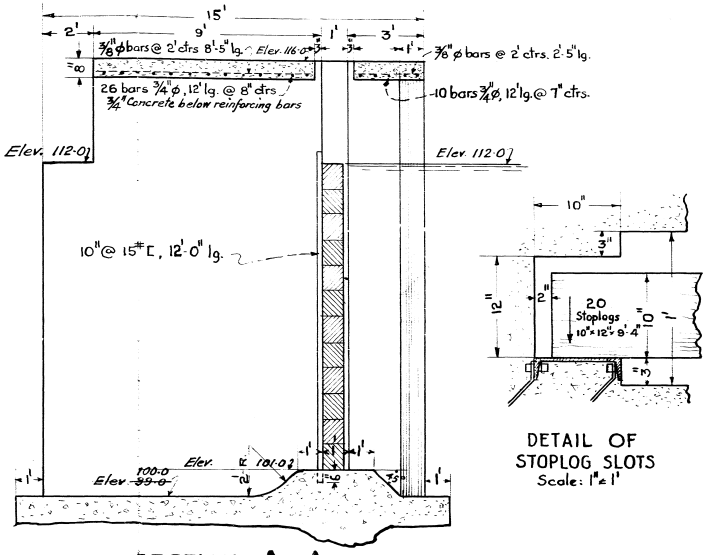
CHANNELS FOR STOPLOG SLOTS IN SLUICES
Scale ½" = 1'-0"



ANCHORS FOR CHANNELS
Scale: 1" = 1'-0"

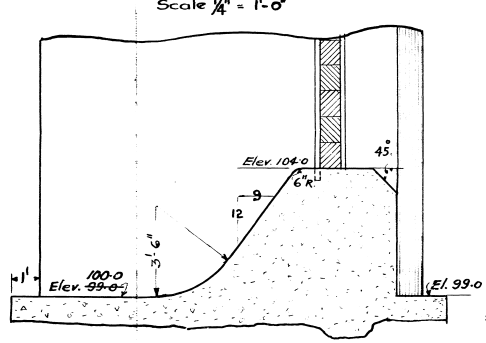


DETAIL OF CHANNEL
Scale: 3" = 1'-0"

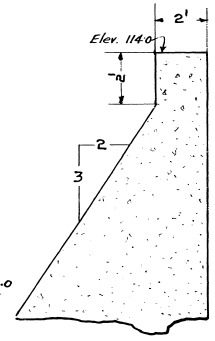


SECTION A-A
Scale ¼" = 1'-0"

DETAIL OF STOPLOG SLOTS
Scale: 1" = 1'



PART SECTION B-B
Scale: ¼" = 1'-0"



SECTION C-C
Scale ¼" = 1'-0"

PROGRESS TO

LEGEND	Partial	Complete
EXCAVATION SHOWN IN BROWN		
FORMING SHOWN IN GREEN OUTLINE		
CONCRETE SHOWN IN RED		

TRENT CANAL

EELS LAKE DAMS

EAST DAM

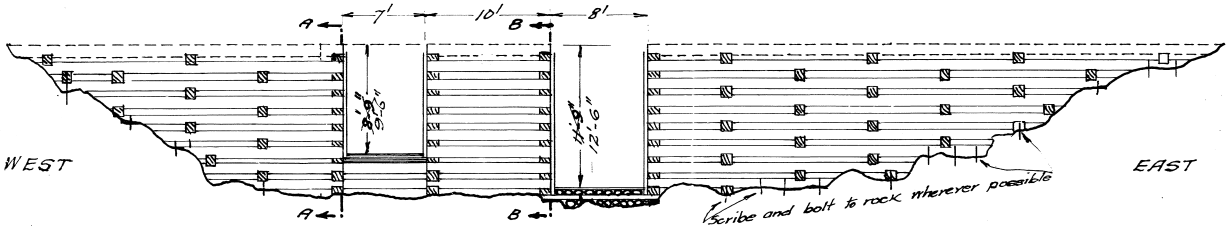
PROPOSED NEW CONCRETE DAM

Scales as Indicated

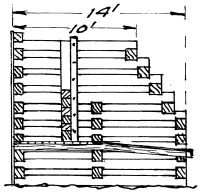
T-11-233.5

Peterborough, Ont.
August 1st, 1945

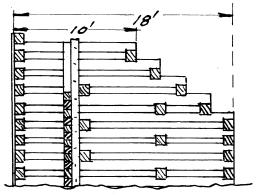
T.C. 935-C



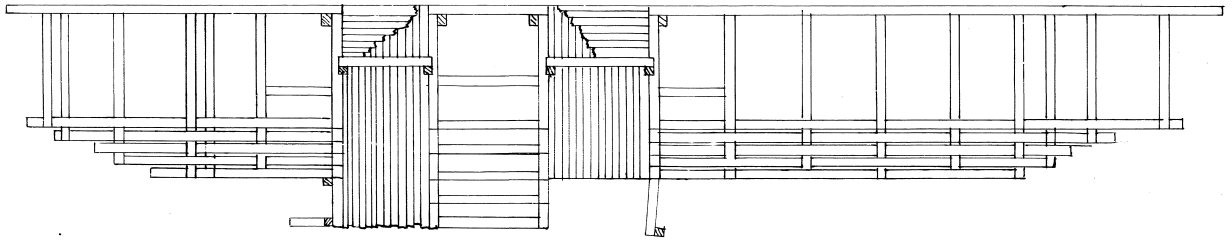
REAR ELEVATION



SECTION ON A-A



SECTION ON B-B.



PLAN

TRENT CANAL

EEL'S LAKE DAMS

EAST DAM

Scale - 1/8" = 1'

T-11-233
T.C.1853-A

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Eels Lake West Dam**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	Fire Route 75 via Eels Lake Rd and CR 28		
Topographic Map	031D16 (Gooderham)	Coordinates (dd/mm/ss)	N 44° 52' 47"
			W 78° 07' 20"
Drainage basin	Eels Creek		
Name of watercourse	Eels Creek	Approximative elevation	≈ 351 m
Name of lake / reservoir	Eels Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	7.80	m	Year of construction	1947
Height of the reservoir	5.00	m	Year of rehabilitation	-
Length of structure	59.10	m	Drawings and/or specifications	-
Area of the reservoir	815	ha		
Storage capacity	-	m^3	Classification (PCA)	High
Catchment area	-	km^2	Overall condition	-
			Category	-

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

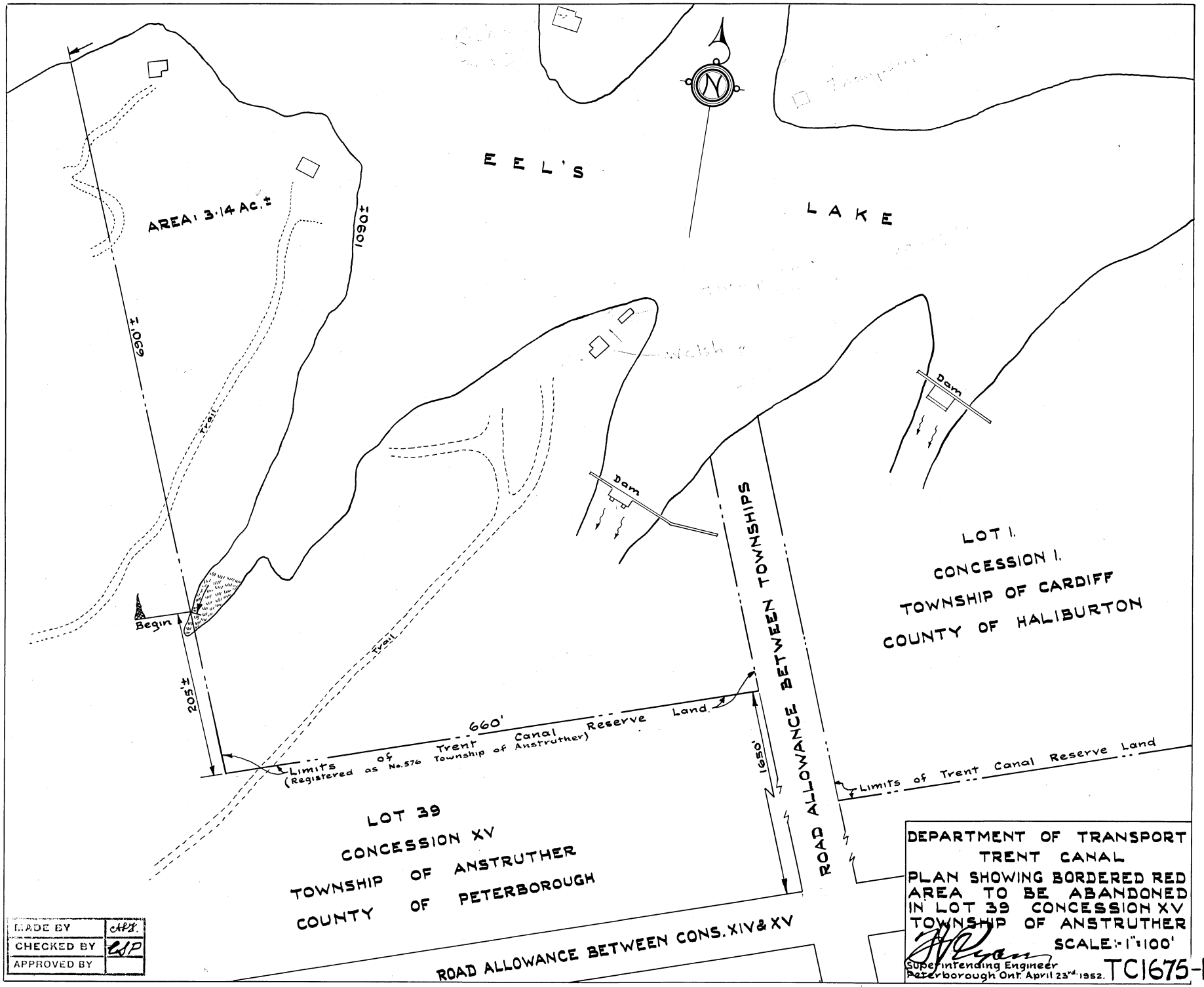
Comments -

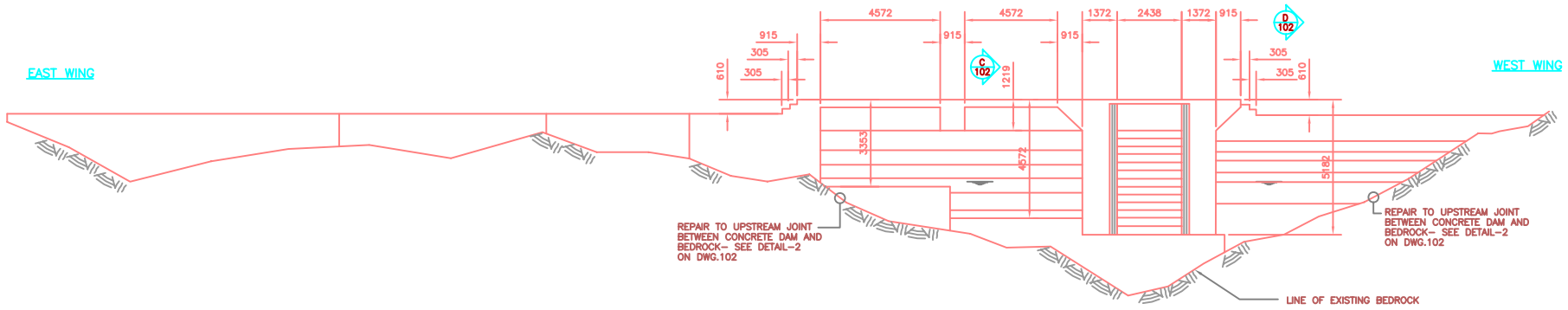
SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

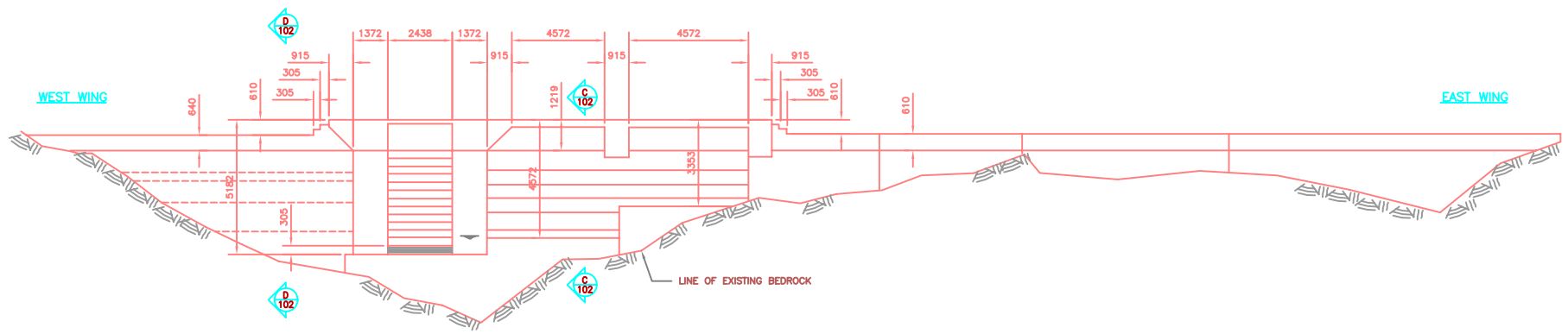
Last Engineering inspection by : - Date : - -


EEL'S LAKE
AREA: 3.14 AC.±
1090±
1069±
Trail
Trail
Begin
205'±
660'
Limits of Trent Canal Reserve Land
(Registered as No. 576 Township of Anstruther)
Dam
Dam
ROAD ALLOWANCE BETWEEN TOWNSHIPS
1650'
Limits of Trent Canal Reserve Land
LOT 1.
CONCESSION I.
TOWNSHIP OF CARDIFF
COUNTY OF HALIBURTON
LOT 39
CONCESSION XV
TOWNSHIP OF ANSTRUTHER
COUNTY OF PETERBOROUGH
ROAD ALLOWANCE BETWEEN CONS. XIV & XV
MADE BY APX.
CHECKED BY EJP
APPROVED BY
DEPARTMENT OF TRANSPORT
TRENT CANAL
PLAN SHOWING BORDERED RED AREA TO BE ABANDONED IN LOT 39 CONCESSION XV TOWNSHIP OF ANSTRUTHER
SCALE: 1" = 100'
Superintending Engineer
Peterborough Ont. April 23rd 1952.
TC1675-B
T-39-1183



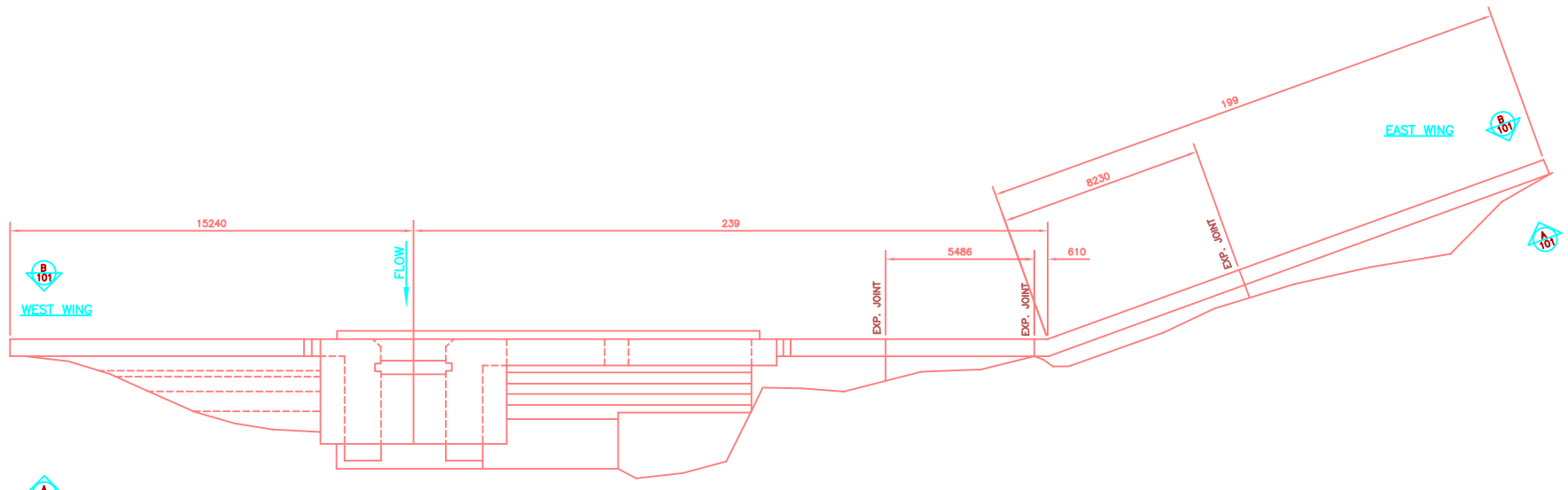
BB 101 ELEVATION UPSTREAM

SCALE 1=100



AA 101 ELEVATION DOWNSTREAM

SCALE 1=100



PLAN EELS WEST DAM

SCALE: 1=100

THIS DRAWING TO READ IN CONJUNCTION WITH DRAWING 102

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

Client Service Team for Parks Canada Ontario Region
Équipe des services à la clientèle pour Parcs Canada Région de l'Ontario

Heritage Canals and Engineering Works National Centre of Expertise
Canaux historiques et travaux d'ingenierie Centre d'expertise national

Canada

DRAFT
Status: % Complete

Project title / Titre du projet

TRENT SEVERN WATERWAY
EELS LAKE WEST DAM
REPAIRS

Drawing title / Titre du dessin

PLAN AND ELEVATIONS

Scale / Échelle
AS NOTED

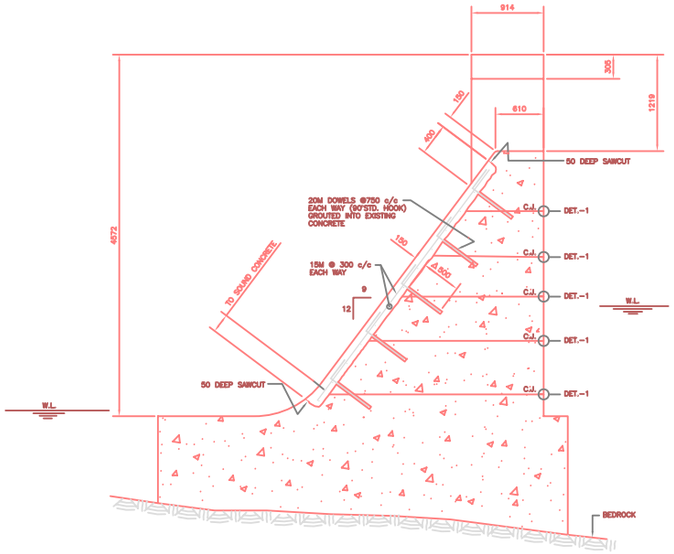
Drawn by/ Dessiné par Date

Designed by/ Conçu par Date

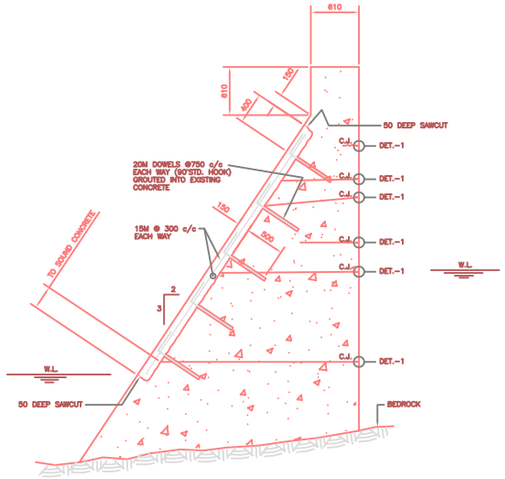
Approved by / Approuvé par Date

Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
Drawing Reference No./Numéro de Référence du Dessin		101

DATE PLOTTED
PERSON PLOTTING
SCALE OF PLOT
VIEW PLOTTED
DRAWING NAME
TIME PLOTTED



CC 102 SECTION
SCALE 1=25



DD 102 SECTION
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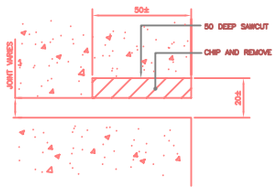
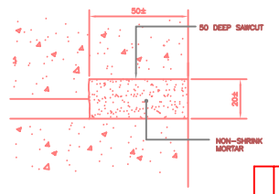
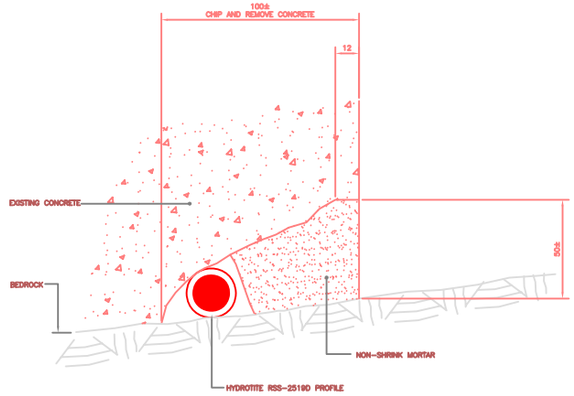


SAWCUT AND REMOVAL



POINTING JOINT

1 102 DETAIL
SCALE 1=1
EXISTING CONSTRUCTION JOINT REPAIR



2 102 DETAIL
SCALE 1=1
REPAIR TO UPSTREAM JOINT BETWEEN DAM AND BEDROCK

THIS DRAWING TO BE READ IN COJUNCTION WITH DRAWING 101

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
Client Service Team for Parks Canada Ontario Region / Équipe des services à la clientèle pour Parcs Canada Région de l'Ontario
Heritage Canada and Engineering Works National Centre of Expertise / Canaux historiques et travaux d'ingénierie Centre d'expertise national

Canada

DRAFT
Status: % Complete

Project title / Titre du projet
TRENT SEVERN WATERWAY
EELS WESST DAM
REPAIRS

Drawing title / Titre du dessin
SECTIONS AND DETAILS

Scale / Echelle
AS NOTED

Drawn by/ Dessiné par R.E.MACPHERSON — Date

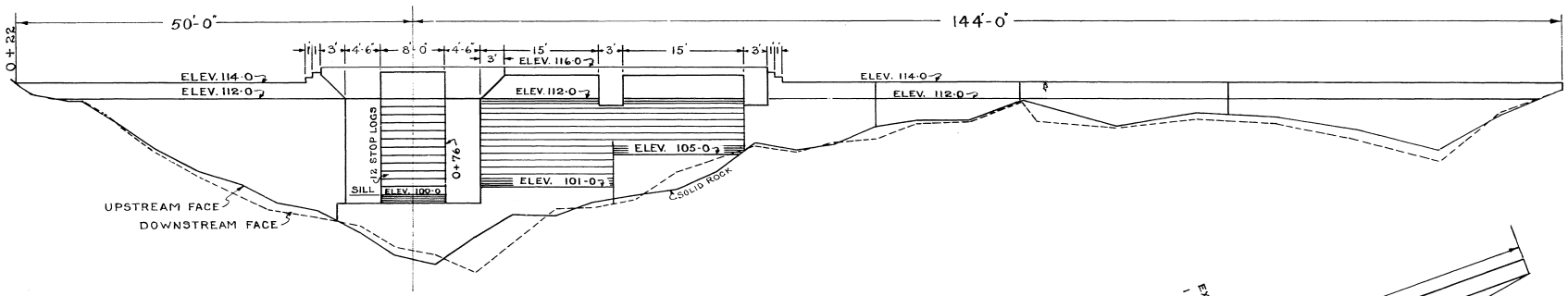
Designed by/ Conçu par — Date

Approved by / Approuvé par — Date

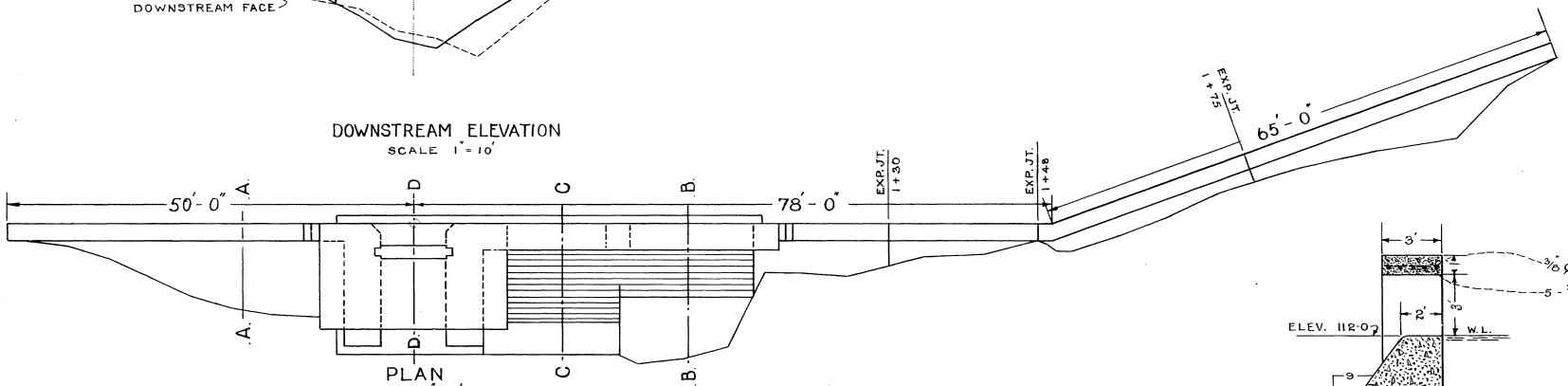
Project No./No. du projet | Client No./No du Client | Sheet No./ Feuille No. 102

Drawing Reference No./Numéro de Référence du Dessin

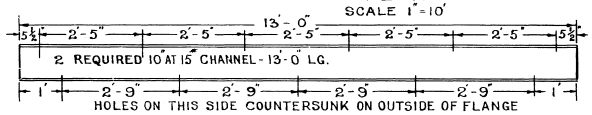
TIME PLOTTED
DATE PLOTTED
PERSON PLOTTING
SCALE OF PLOT
VIEW PLOTTED
DRAWING NAME



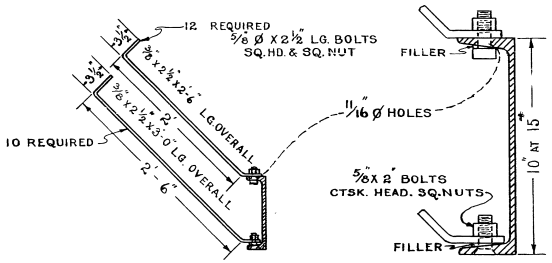
DOWNSTREAM ELEVATION
SCALE 1" = 10'



PLAN
SCALE 1" = 10'

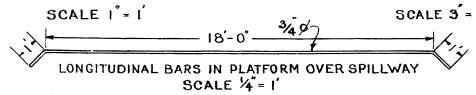


CHANNEL FOR STOPLOG SLOTS
SCALE ½" = 1'

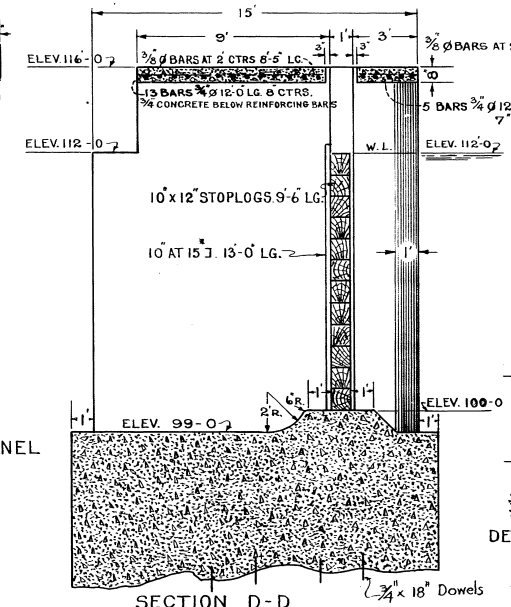


ANCHORS FOR CHANNELS
SCALE 1" = 1'

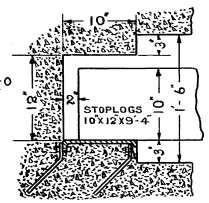
DETAIL OF CHANNEL
SCALE 3" = 1'



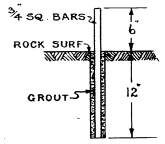
LONGITUDINAL BARS IN PLATFORM OVER SPILLWAY
SCALE ¼" = 1'



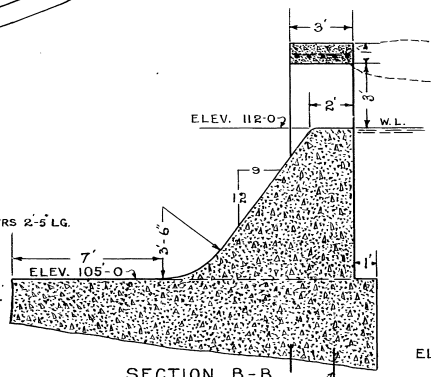
SECTION D-D
SCALE ¼" = 1'



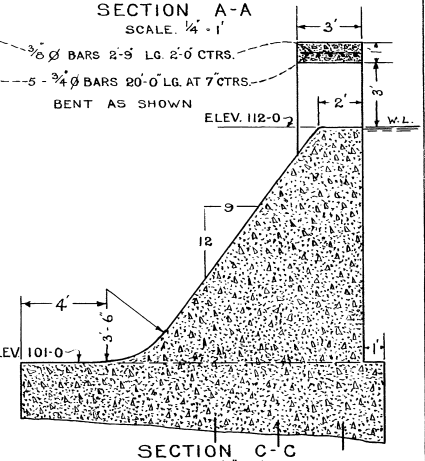
DETAIL OF STOPLOG SLOT
SCALE 1" = 1'



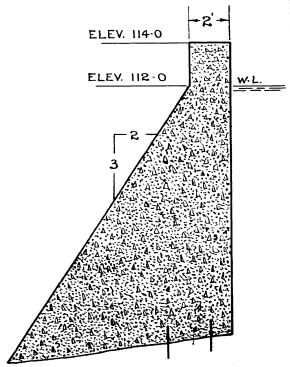
ANCHOR PINS
SCALE 1" = 1'-0"



SECTION B-B
SCALE ¼" = 1'



SECTION C-C
SCALE ¼" = 1'



SECTION A-A
SCALE ¼" = 1'

DRAWN BY	E.W.G.
TRACED BY	
CHECKED BY	
RECOMMENDED BY	
APPROVED BY	

TRENT CANAL

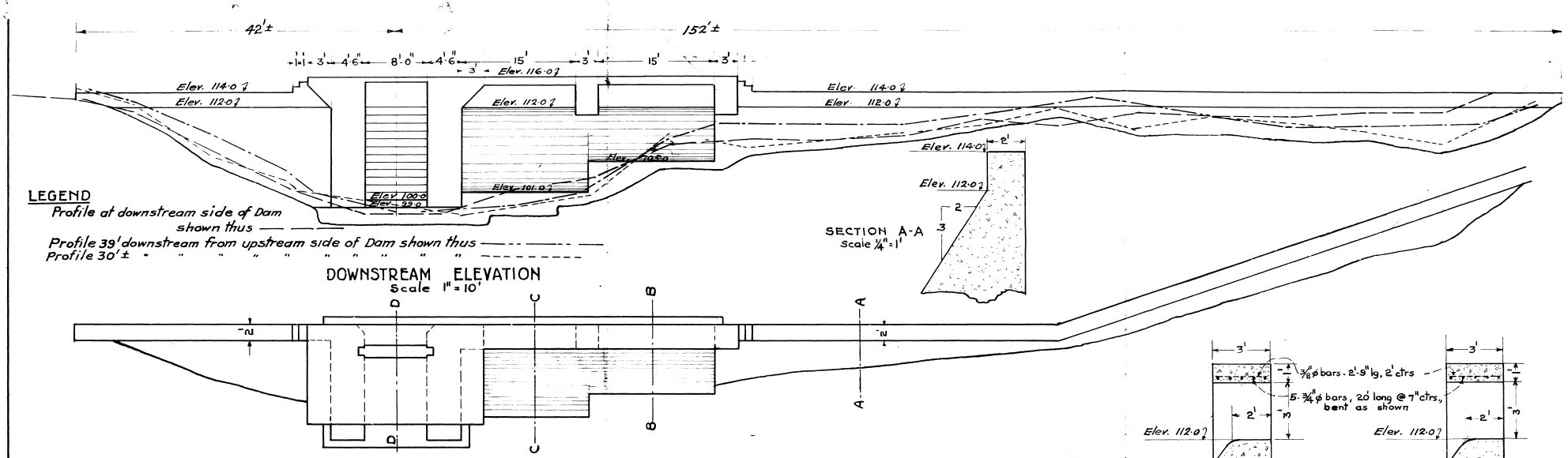
EELS LAKE DAMS

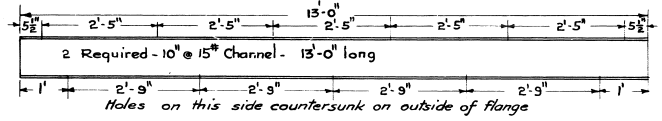
WEST DAM
NEW CONCRETE DAM
AS CONSTRUCTED
1946-47
SCALE AS INDICATED

PETERBOROUGH. ONT.
AUG. 6TH 1947

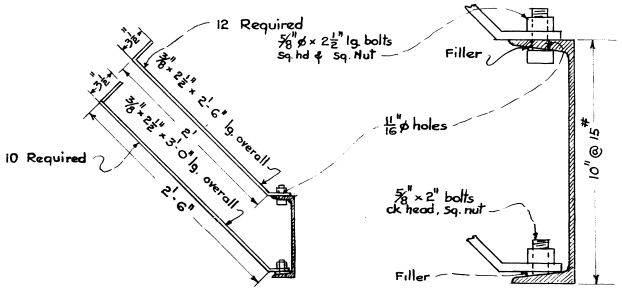
T.C. 1068-E

T-11-233.8



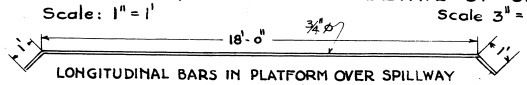


CHANNEL FOR STOPLOG SLOTS Scale: ½" = 1'

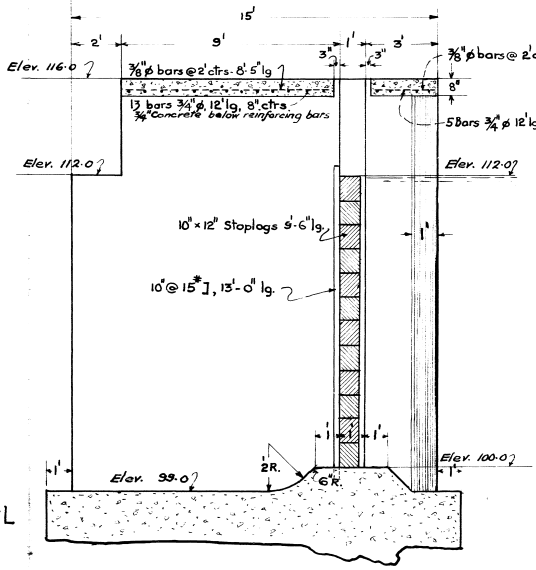


ANCHORS FOR CHANNELS
Scale: 1" = 1'

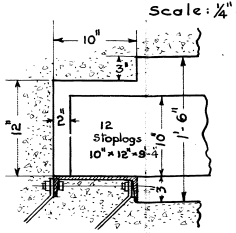
DETAIL OF CHANNEL
Scale 3" = 1'



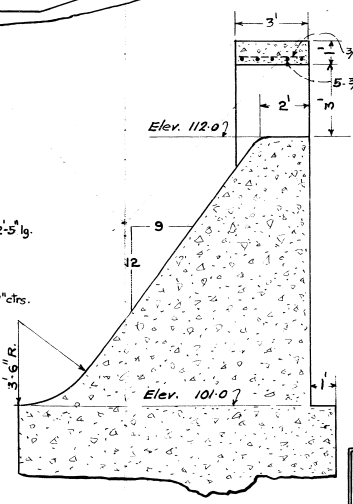
LONGITUDINAL BARS IN PLATFORM OVER SPILLWAY
Scale ¼" = 1'



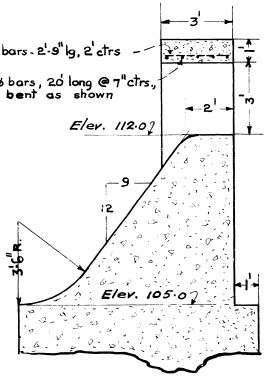
SECTION D-D
Scale: ¼" = 1'



DETAIL OF STOPLOG SLOT
Scale: 1" = 1'



SECTION C-C
Scale: ¼" = 1'



SECTION B-B
Scale: ¼" = 1'

PROGRESS TO _____

LEGEND	Partial	Complete
EXCAVATION SHOWN IN BROWN		
FORMING SHOWN IN GREEN OUTLINE		
CONCRETE SHOWN IN RED		

TRENT CANAL

EELS LAKE DAMS

WEST DAM

PROPOSED NEW CONCRETE DAM

Scales as Indicated T-11-233.4

Peterborough, Ont
August 15th, 1945

T. C. 934-C

Parks Canada Agency **Eastern Canada**

DAM DATA SHEET

SECTION I - LOCATION OF THE DAM

Name of the dam	**Jack Lake Dam**	AMS Number :	**11400**
Comments / Description	-		
Field Unit	Central Ontario		
National Park or National Historic Site	Trent-Severn Waterway National Historic Site	Photo 5X7	
Sector	Haliburton Area		
Access route	South Side of Jack Lake		
Topographic Map	-	Coordinates (dd/mm/ss)	N 44° 40' 22"
			W 78° 01' 06"
Drainage basin	-		
Name of watercourse	Jack Creek	Approximative elevation	- m
Name of lake / reservoir	Jack Lake		

SECTION II - PCA CONTACT PERSON

Name	Dylan Hutchison, EIT.	Function	Dam Safety
Address	2155 Ashburnham Drive Peterborough, Ontario, K9J 6Z6	Phone Cellular	(705) 750-4407 (705) 930-7588
Email	dylan.hutchison@pc.gc.ca	Fax	-

SECTION III - MAIN DATA

Height of the dam	3.70	m	Year of construction	1910	
Height of the reservoir	-	m	Year of rehabilitation	-	
Length of structure	146.60	m	Drawings and/or specifications	-	
Area of the reservoir	1296	ha			
Storage capacity	-	m^3	Classification (PCA)	Significant	
Catchment area	-	km^2	Overall condition	-	
			Category	-	

Main use(s) -

Replacement cost - *according to AMS Data dating from :* -

Deffered Maintenance -

SECTION IV - DESCRIPTION (*from left to right looking downstream*)

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
				-	
Deficiencies	-				
Section condition	-				

Section Number	-				
Name of section	-		Year of construction	-	
Type of section	-		Year of rehabilitation	-	
Length	-	m	Material	-	
Height	-	m	Foundation	-	
Freeboard	-	m	Reference	-	
Deficiencies	-				
Section condition	-				

SECTION V - SPILLWAY (S) Total Number : -

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillway(s) Number	-				
Type of spillway(s)	-		Number	-	
Description	-		Dimension	-	m
			Material	-	
Operation reliability	-				

Spillways reliability	-	Spillways capacity	-

SECTION VI - POPULATION and/or INFRASTRUCTURES UPSTREAM

	Type	Description	Number	At Risk ?	Property of
1	-	-	-	-	-
2	-	-	-	-	-

Comments -

SECTION VII - POPULATION and/or INFRASTRUCTURES DOWNSTREAM

	Type	Description	Number	Distance		At Risk ?	Property of
1	-	-	-	-	km	-	-
2	-	-	-	-	km	-	-
3	-	-	-	-	km	-	-
4	-	-	-	-	km	-	-

Comments -

SECTION VIII - DAM CLASSIFICATIONS

Note : Presumptive classifications

CDA Classification System (consequence)	PCA Classification System (hazard)
-	-

Comments -

SECTION IX - INSPECTIONS AND DAM SAFETY REVIEWS

REQUIRED INSPECTIONS

Routine inspection : -

Engineering inspection : -

DAM SAFETY REVIEW

Carried out in : -

Next before : -

Comments -

SECTION X - REQUIRED DOCUMENTS

DOCUMENTS	Prepared or revised in
Emergency Response Plan (ERP)	-
Emergency Preparedness Plan (EPP)	-
Operation, Maintenance and Surveillance Manual (OMS)	-

Comments -

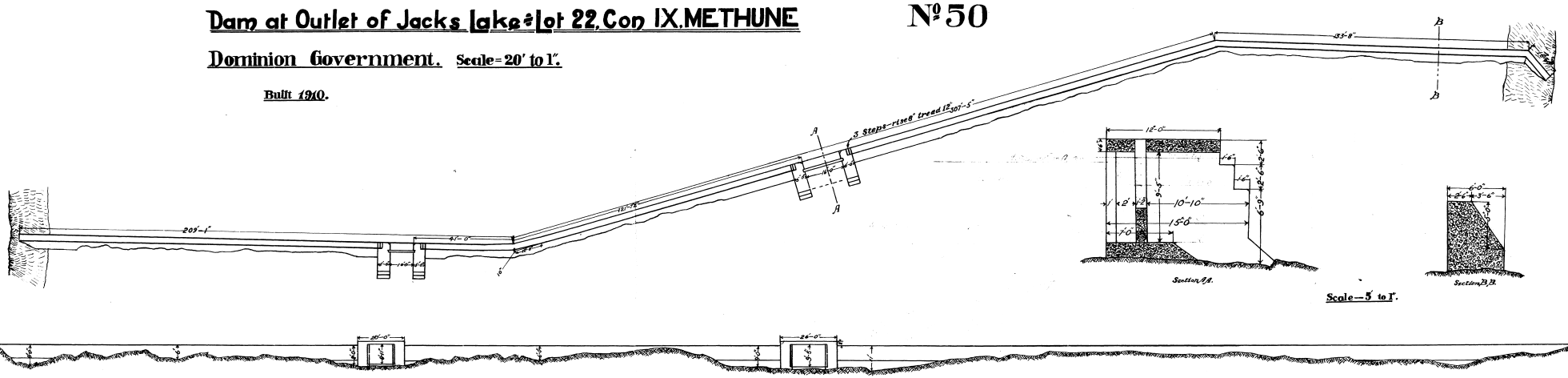
Last Engineering inspection by : - Date : - -

Dam at Outlet of Jacks Lake - Lot 22, Con IX, METHUNE

No 50

Dominion Government. Scale = 20' to 1".

Built 1910.



Scale—5' to 1".

TC 1928-D

T-11-266.1