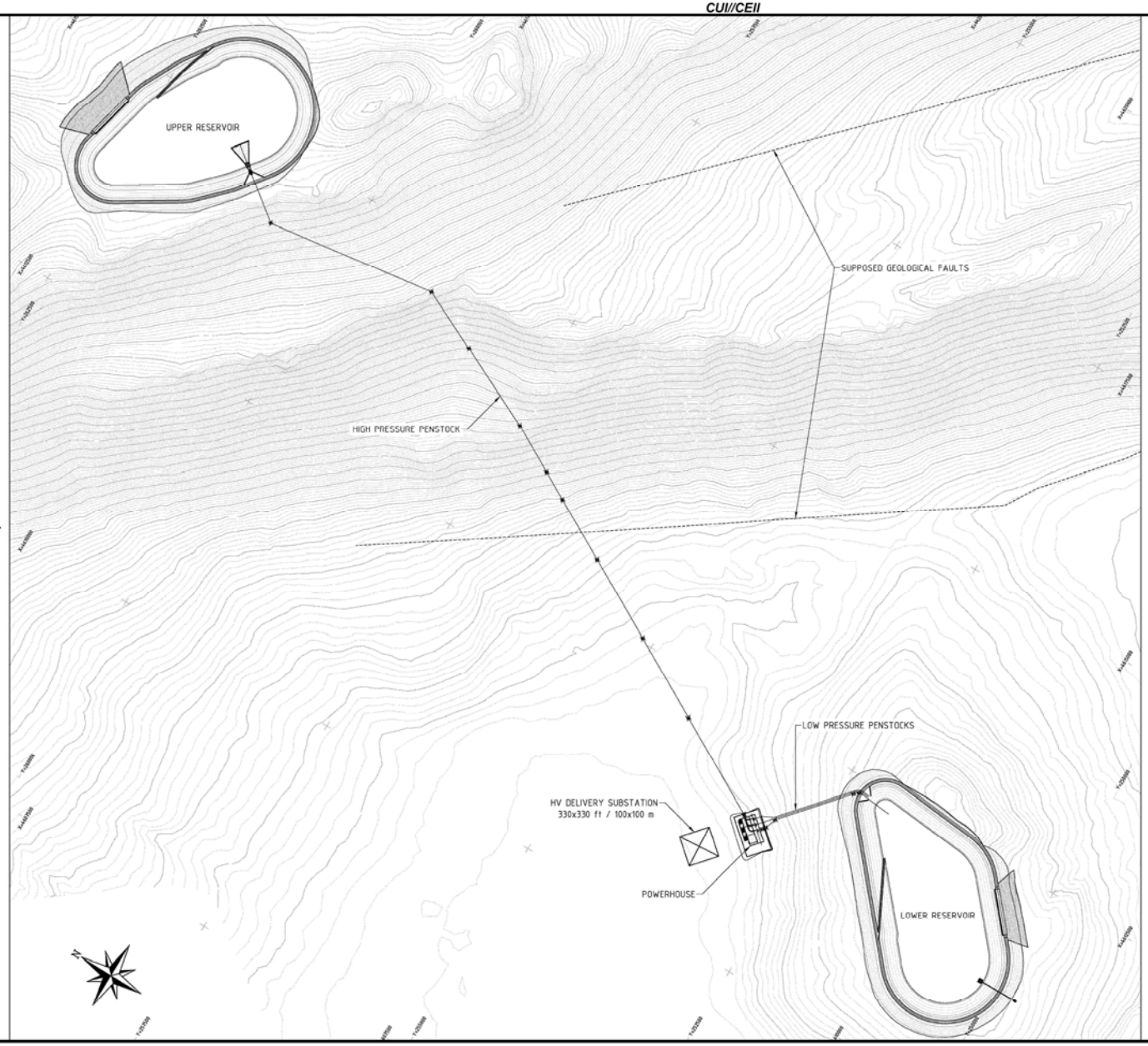
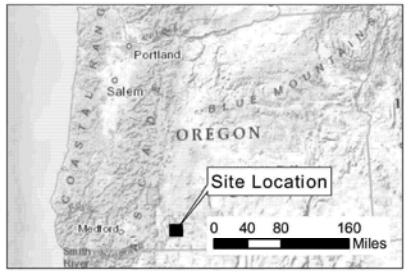
Exhibit F

Project Drawings

CUI//CEII





Ech : A1 1/20000 - A3 1/40000

0 200 500 1000 feet

0 100 200 400 meters

The drawing unit is the foot.

SWAN LAKE NORTH HYDRO LLC
SWAN LAKE NORTH
PUMPED STORAGE HYDROELECTRIC PROJECT
FERC LICENSE NO. 13318 FERC DWG NO. P-13318-1001

GENERAL LAYOUT OF PSP SCHEME - PLAN VIEW

DATE:	SCALE:	EXHIBIT F DWG:
APRIL 30, 2019	AS NOTED	IH-SWAN-F-000-10001

\\usl0254-pofwd01\shared_projects\2241011225\5. FERC Exhibit F Drawings\FERC TIFF DRAWINGS\IH-SWAN-F-000-10001-1001.dwg May 31, 2019 - 12:20pm

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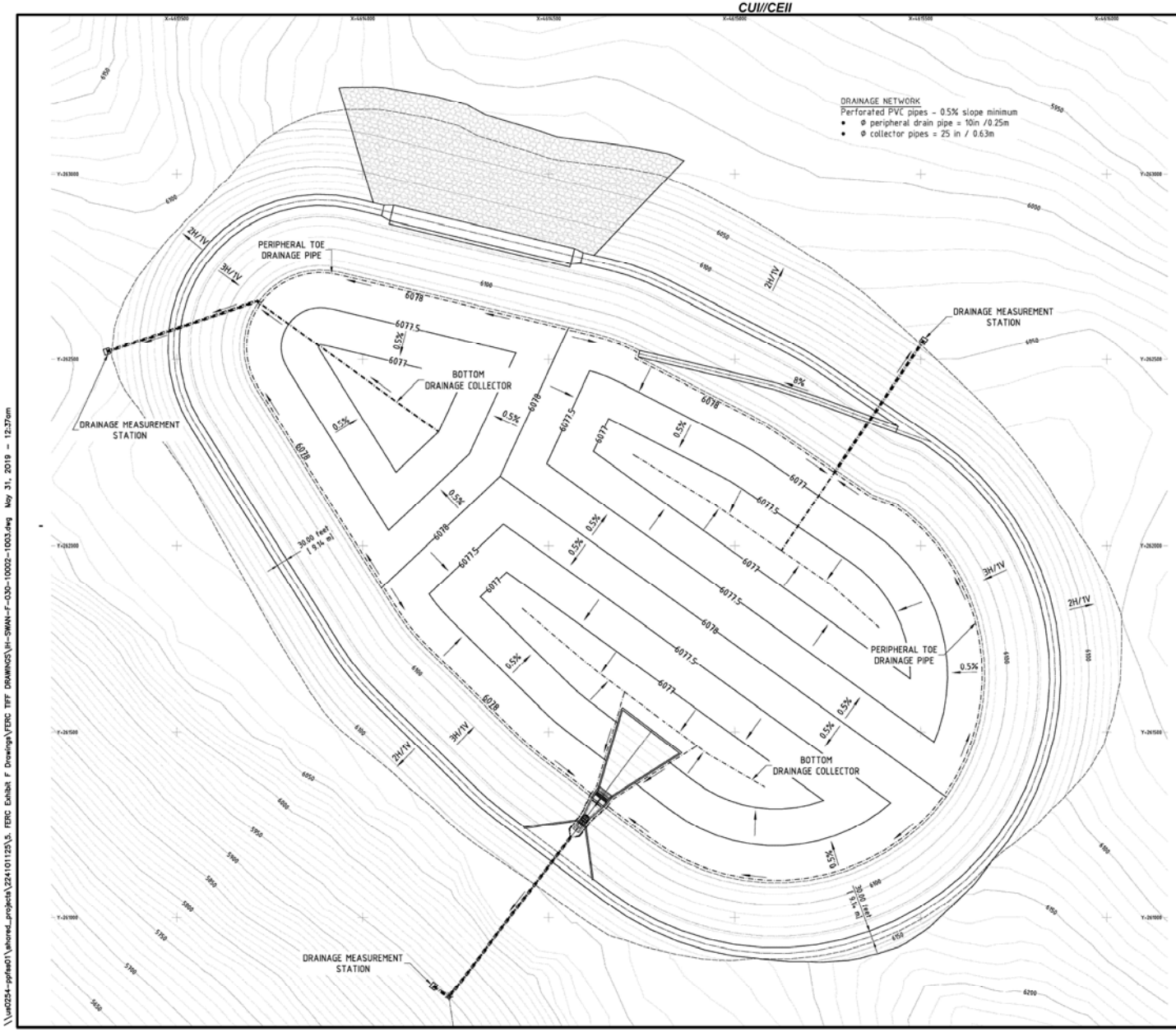

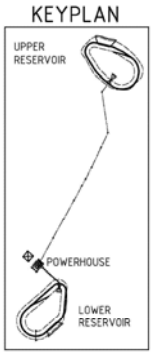

Ech : A1 1/5000 – A3 1/10000

0 50 100 200 feet

0 10 50 100 meters

The drawing unit is the foot.

SWAN LAKE NORTH HYDRO LLC SWAN LAKE NORTH PUMPED STORAGE HYDROELECTRIC PROJECT FERC LICENSE NO. 13318		FERC DWG NO. P-13318-1003
UPPER RESERVOIR - DRAINAGE SYSTEM - PLAN VIEW		
DATE: APRIL 30, 2019	SCALE: AS NOTED	EXHIBIT F DWG: IIH-SWAN-F-030-10002

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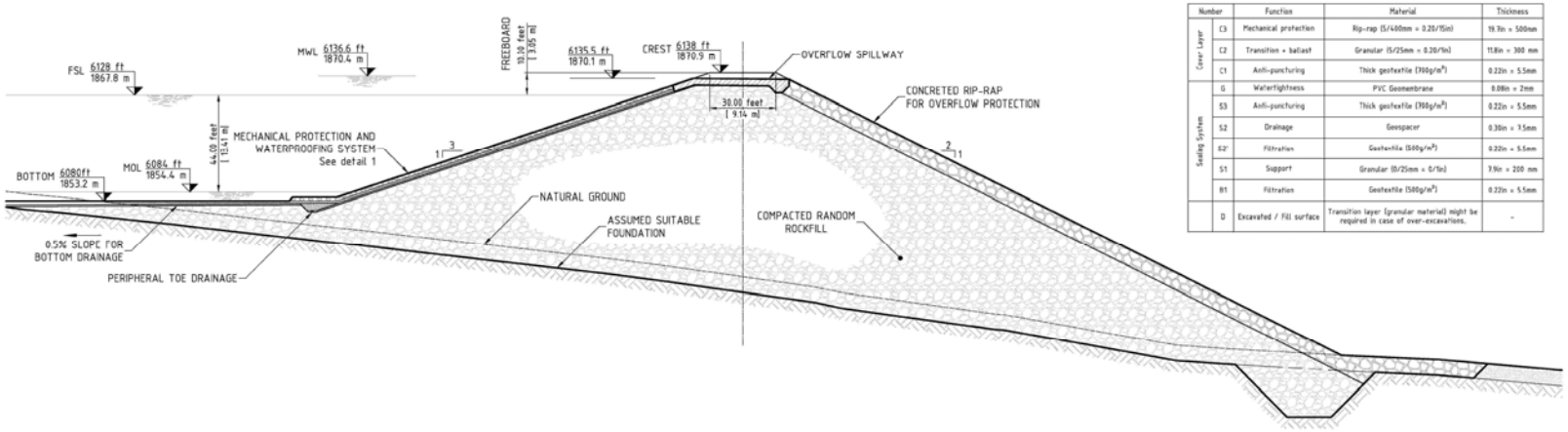
NOTE : the positions of the sections A-A, B-B and C-C are indicated on drawing IH-SWAN-F-030-10001

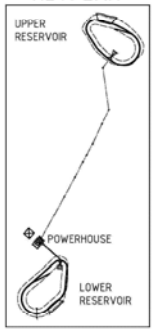
SECTION A-A



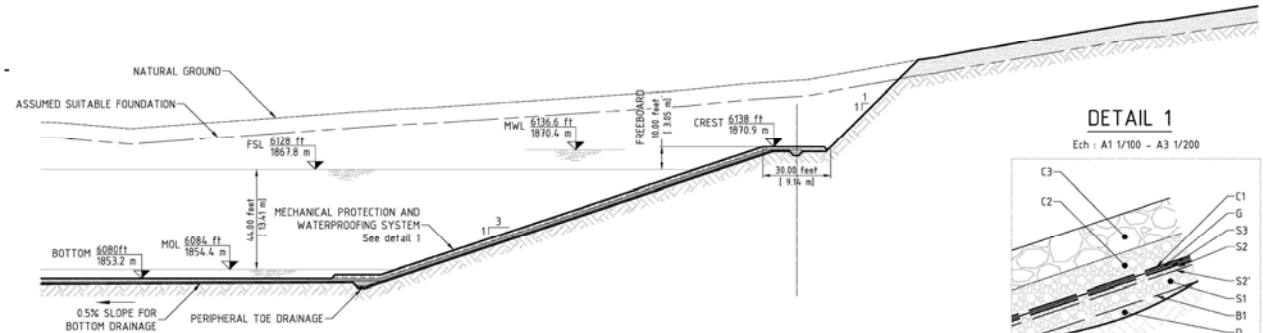
DETAIL 1 - WATERPROOFING SYSTEM DESCRIPTION

	Number	Function	Material	Thickness
Cover Layer	C3	Mechanical protection	Rip-rap (5/400mm = 0.20/15in)	19.7in = 500mm
	C2	Transition + ballast	Granular (5/25mm = 0.20/1in)	11.8in = 300 mm
	C1	Anti-puncturing	Thick geotextile (700g/m²)	0.22in = 5.5mm
Sealing System	G	Watertightness	PVC Geomembrane	0.08in = 2mm
	S3	Anti-puncturing	Thick geotextile (700g/m²)	0.22in = 5.5mm
	S2	Drainage	Geospacer	0.30in = 7.5mm
	S2'	Filtration	Geotextile (500g/m²)	0.22in = 5.5mm
	S1	Support	Granular (0/25mm = 0/1in)	7.9in = 200 mm
	B1	Filtration	Geotextile (500g/m²)	0.22in = 5.5mm
	D	Excavated / Fil surface	Transition layer (granular material) might be required in case of over-excavations.	-

KEYPLAN



SECTION B-B

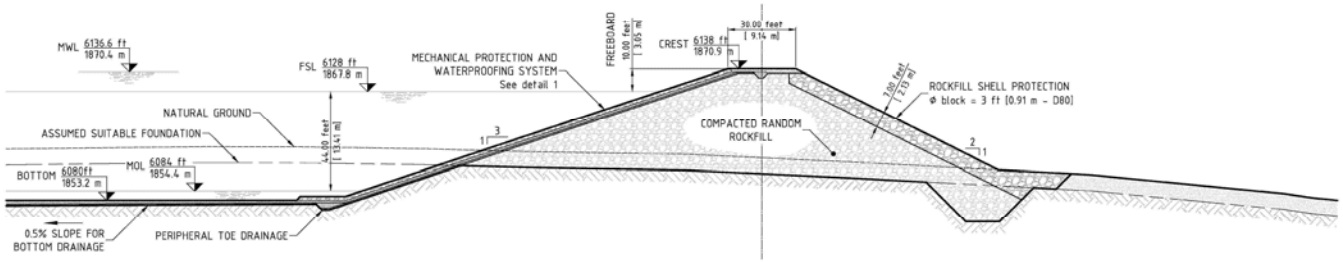


DETAIL 1

Ech : A1 1/100 - A3 1/200

NOTE : This watertightness complex is applied on the slopes; at the bottom the mechanical protection (C3 layer) is deleted.

SECTION C-C



Ech : A1 1/1000 - A3 1/2000

0 10 25 50 feet

0 5 10 20 meters

The drawing unit is the foot.

Ech : A1 1/100 - A3 1/200

0 1 2.5 5 feet

0 0.5 1 2 meters

SWAN LAKE NORTH HYDRO LLC
SWAN LAKE NORTH
PUMPED STORAGE HYDROELECTRIC PROJECT

FERC LICENSE NO. 13318 — FERC DWG NO. P-13318-1004

UPPER RESERVOIR -
TYPICAL CROSS SECTIONS

DATE:	SCALE:	EXHIBIT F DWG:
APRIL 30, 2019	AS NOTED	IH-SWAN-F-030-10003

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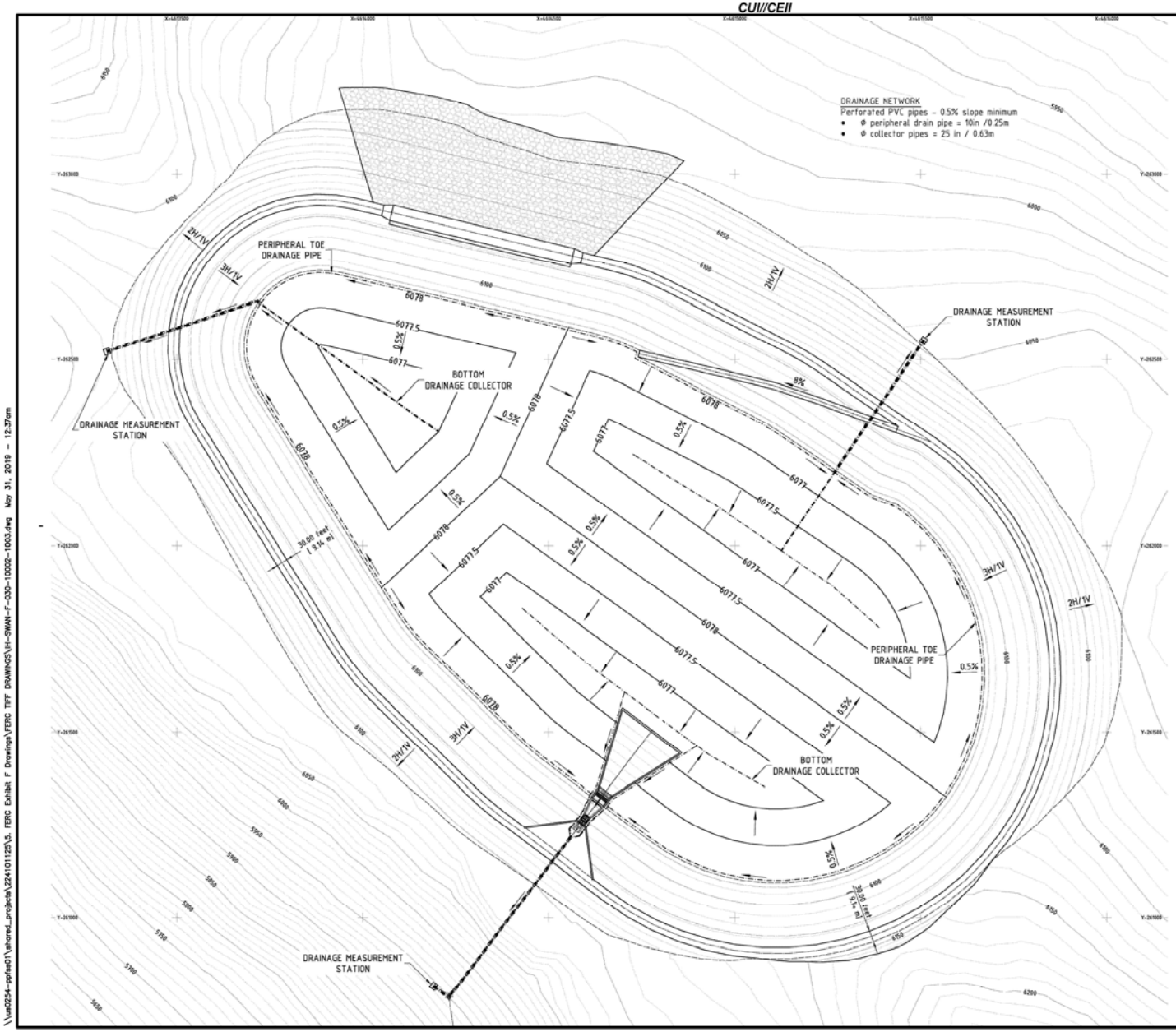

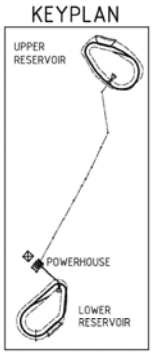

Ech : A1 1/5000 – A3 1/10000

0 50 100 200 feet

0 10 50 100 meters

The drawing unit is the foot.

SWAN LAKE NORTH HYDRO LLC SWAN LAKE NORTH PUMPED STORAGE HYDROELECTRIC PROJECT FERC LICENSE NO. 13318		FERC DWG NO. P-13318-1003
UPPER RESERVOIR - DRAINAGE SYSTEM - PLAN VIEW		
DATE: APRIL 30, 2019	SCALE: AS NOTED	EXHIBIT F DWG: IIH-SWAN-F-030-10002

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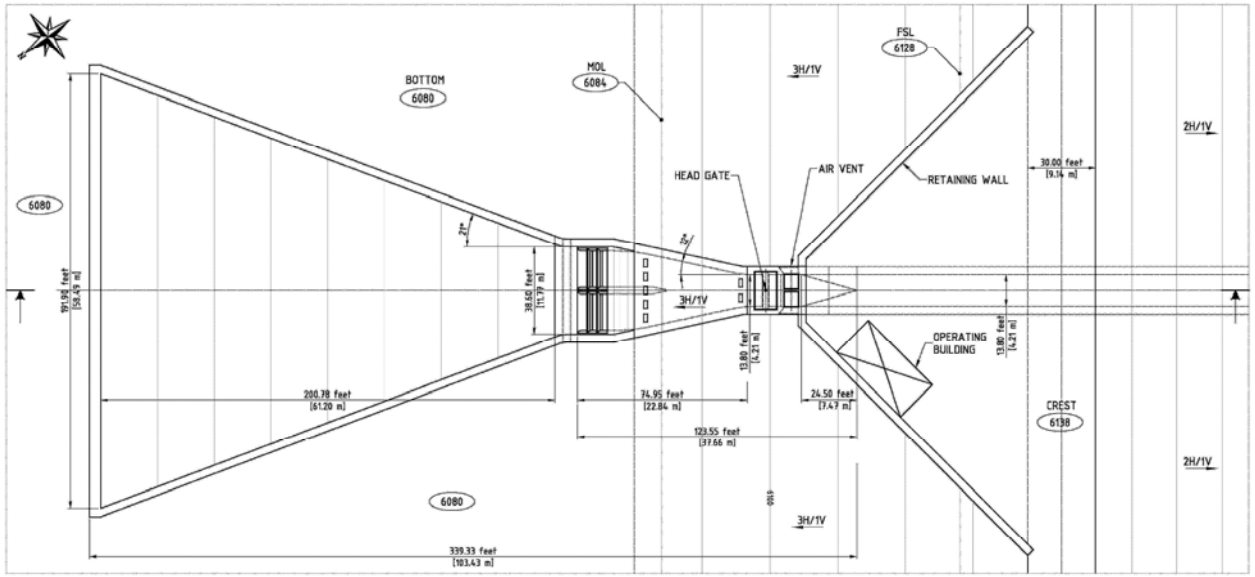
WATER INTAKE - PLAN VIEW



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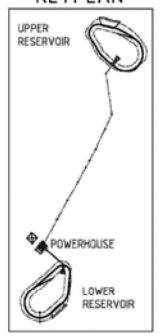


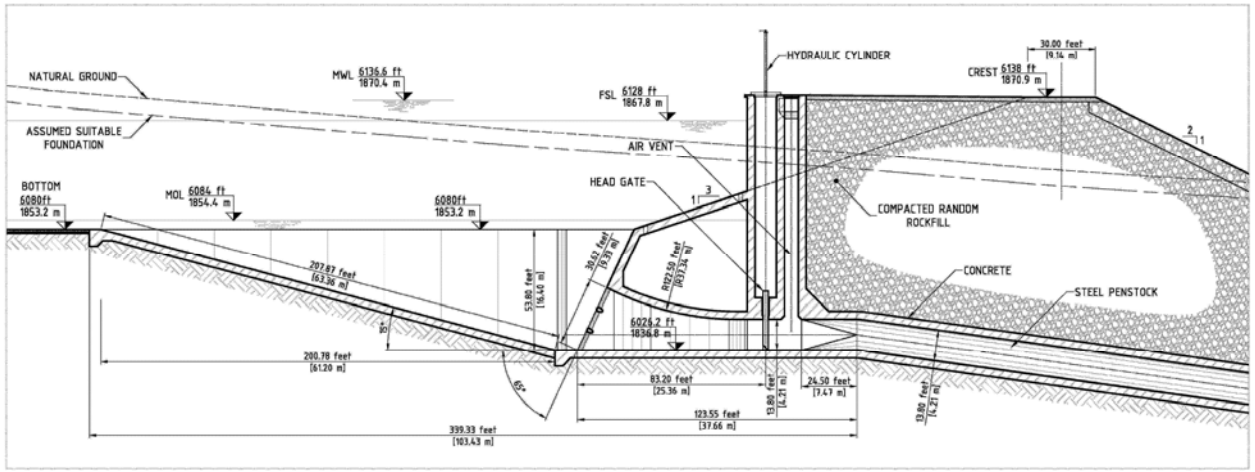
Ech : A1 1/1000 – A3 1/2000

0 10 25 50 feet

0 5 10 20 meters

The drawing unit is the foot.

WATER INTAKE - CROSS SECTION



SWAN LAKE NORTH HYDRO LLC
SWAN LAKE NORTH
PUMPED STORAGE HYDROELECTRIC PROJECT
FERC LICENSE NO. 13318 FERC DWG NO. P-13318-1005

UPPER RESERVOIR - WATER INTAKE -
PLAN VIEW AND X-SECTION

DATE:	SCALE:	EXHIBIT F DWG:
APRIL 30, 2019	AS NOTED	IH-SWAN-F-030-10004

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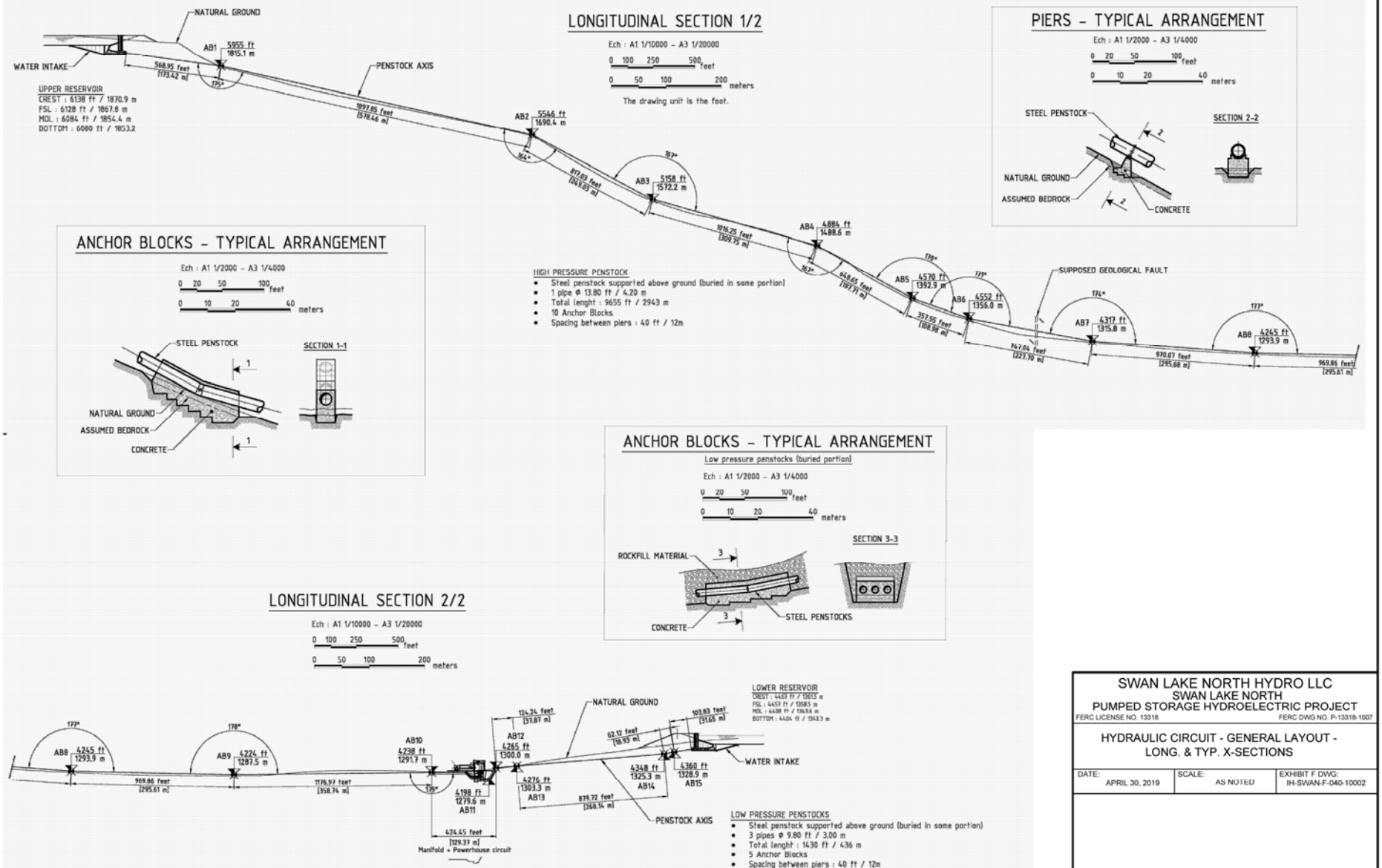

SWAN LAKE NORTH HYDRO LLC
SWAN LAKE NORTH
PUMPED STORAGE HYDROELECTRIC PROJECT

FERC LICENSE NO. 13318 | FERC DWG NO. P-13318-1007

HYDRAULIC CIRCUIT - GENERAL LAYOUT - LONG. & TYP. X-SECTIONS

DATE:	SCALE:	EXHIBIT F DWG:
APRIL 30, 2019	AS NOTED	IH-SWAN-F-040-10002

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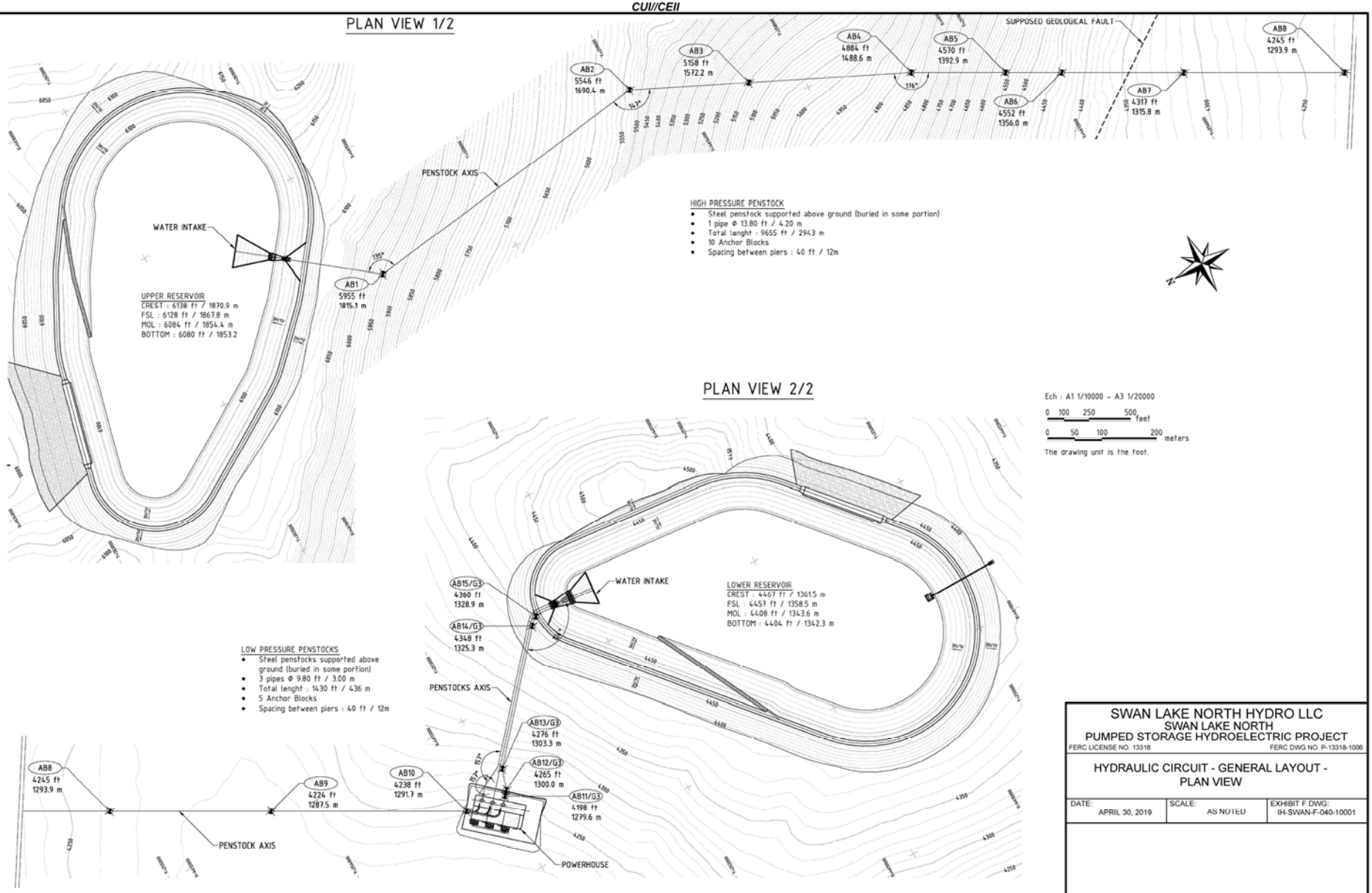


SWAN LAKE NORTH HYDRO LLC
SWAN LAKE NORTH
PUMPED STORAGE HYDROELECTRIC PROJECT

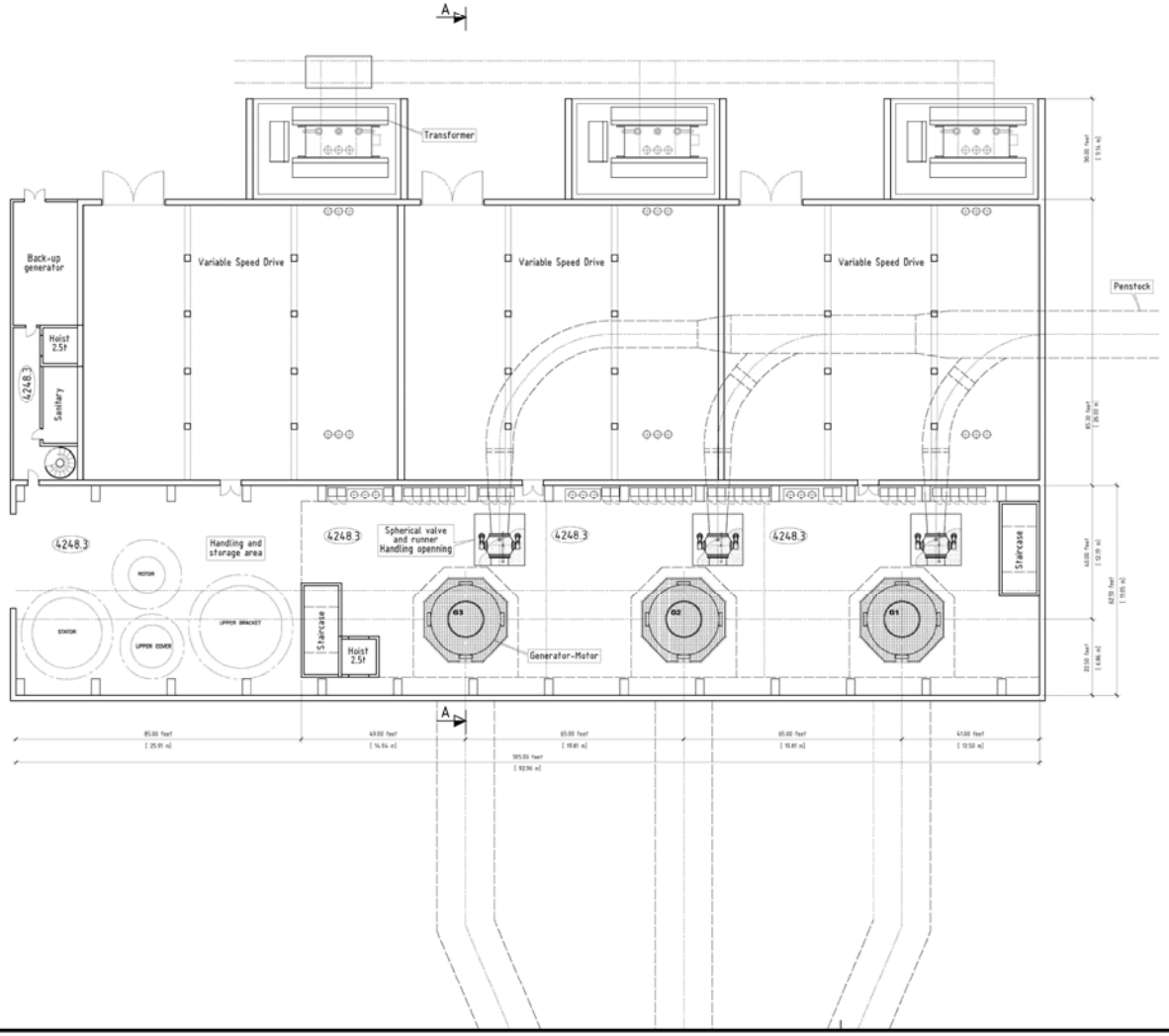
FERC LICENSE NO. 13318 | FERC DWG NO. P-13318-1006

HYDRAULIC CIRCUIT - GENERAL LAYOUT - PLAN VIEW

DATE:	SCALE:	EXHIBIT F DWG:
APRIL 30, 2019	AS NOTED	IH-SWAN-F-040-10001

\\usa0254-pofwa01\shared_projects\224101125\5. FERC Exhibit F Drawings\FERC TIFF DRAWINGS\IH-SWAN-F-040-10001-1006.dwg May 31, 2019 - 12:54am

Handling and storage area level 4248.3



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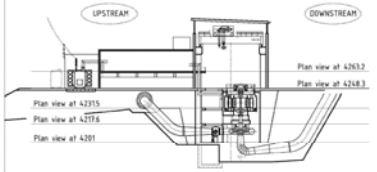

DRAWINGS LIST EM :

IH-SWAN-*-F-050-*-0001 - PLAN VIEW AT ELEVATION 4248.30
IH-SWAN-*-F-050-*-0002 - PLAN VIEW AT ELEVATION 4231.5
IH-SWAN-*-F-050-*-0003 - PLAN VIEW AT ELEVATIONS 4217.6 and 4201
IH-SWAN-*-F-050-*-0004 - TRANSVERSAL CROSS SECTION A-A
IH-SWAN-*-F-050-*-0005 - PLAN VIEW AT ELEVATION 4263.2

SWAN LAKE :
3 reversible units - $P_{max\ tur}$ = 3 x 134MW - Q_{max} = 3 x 29m³/s - N_{nom} = 720rpm - H_{gross} = 524m

SWAN LAKE NORTH HYDRO LLC
SWAN LAKE NORTH
PUMPED STORAGE HYDROELECTRIC PROJECT

FERC LICENSE NO. 13318 | FERC DWG NO. P-13318-1008

PLAN VIEW AT ELEVATION 4248.30

DATE:	SCALE:	EXHIBIT F DWG:
APRIL 30, 2019	AS NOTED	IH-SWAN-F-050-10001

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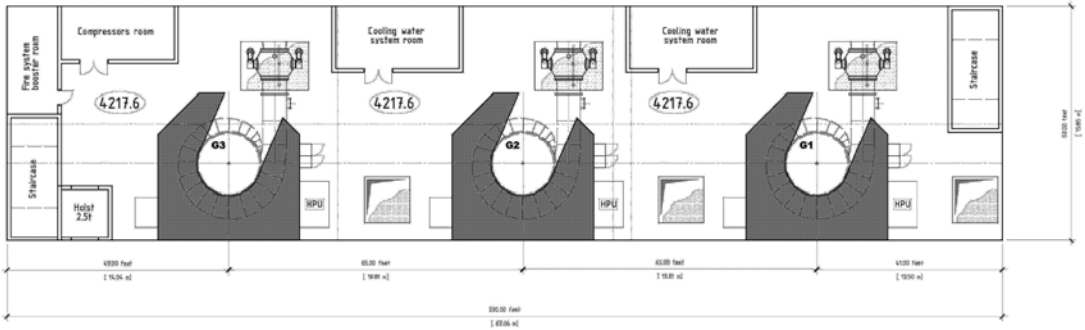
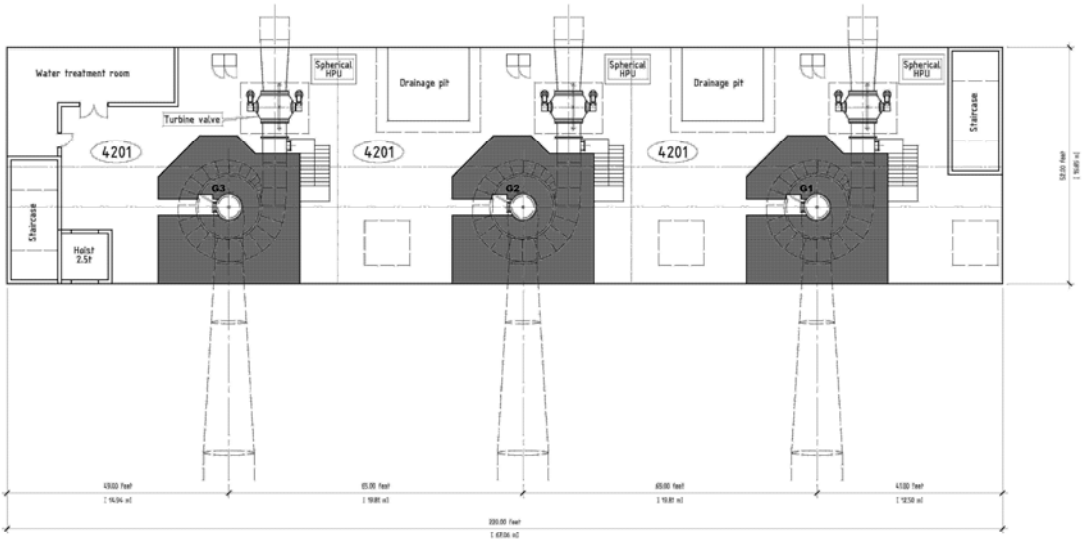
Pump Turbine level 4217.6



Valve & Auxiliaries level 4201



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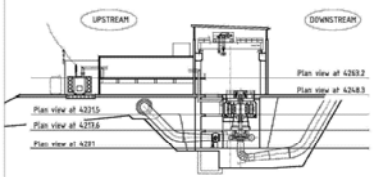

DRAWINGS LIST EM :

IH-SWAN-*-F-050-*-0001 – PLAN VIEW AT ELEVATION 4248.30
IH-SWAN-*-F-050-*-0002 – PLAN VIEW AT ELEVATION 4231.5
IH-SWAN-*-F-050-*-0003 – PLAN VIEW AT ELEVATIONS 4217.6 and 4201
IH-SWAN-*-F-050-*-0004 – TRANSVERSAL CROSS SECTION A-A
IH-SWAN-*-F-050-*-0005 – PLAN VIEW AT ELEVATION 4263.2

SWAN LAKE :
3 reversible units – $P_{max\ tur}$ = 3 x 134MW – Q_{des} = 3 x 29m³/s – N_{max} = 720rpm – H_{gross} = 524m

SWAN LAKE NORTH HYDRO LLC
SWAN LAKE NORTH
PUMPED STORAGE HYDROELECTRIC PROJECT
FERC LICENSE NO. 13318 FERC DWG NO. P-13318-1010

PLAN VIEW AT ELEVATION 4217.6 AND 4201

DATE:	SCALE:	EXHIBIT F DWG:
APRIL 30, 2019	AS NOTED	IH-SWAN-F-050-10003

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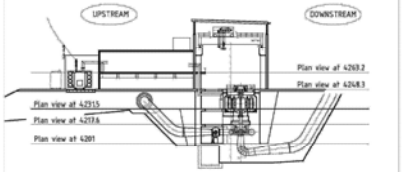
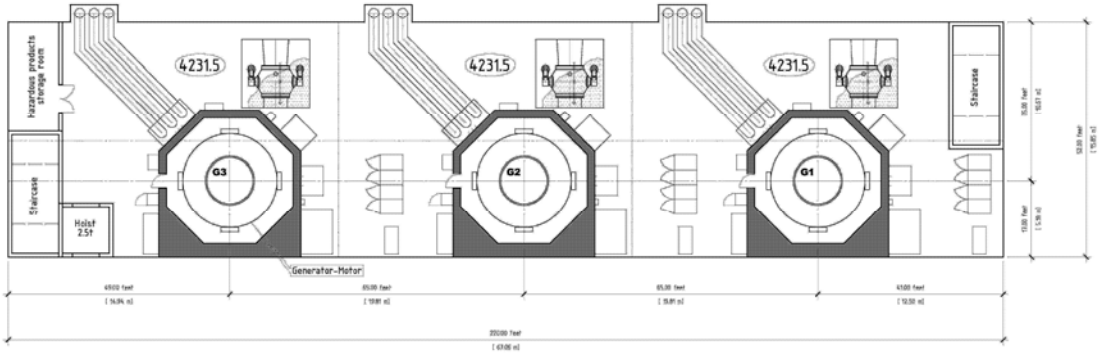


Generator level 4231.5



DRAWINGS LIST EM :

IH-SWAN-*-F-050-*-0001 – PLAN VIEW AT ELEVATION 4248.30
IH-SWAN-*-F-050-*-0002 – PLAN VIEW AT ELEVATION 4231.5
IH-SWAN-*-F-050-*-0003 – PLAN VIEW AT ELEVATIONS 4219.6 and 4201
IH-SWAN-*-F-050-*-0004 – TRANSVERSAL CROSS SECTION A–A
IH-SWAN-*-F-050-*-0005 – PLAN VIEW AT ELEVATION 4263.2

SWAN LAKE :
3 reversible units – $P_{max\ tur}$ = 3 x 134MW – Q_{max} = 3 x 29m³/s – N_{min} = 720rpm – H_{gross} = 524m

SWAN LAKE NORTH HYDRO LLC
SWAN LAKE NORTH
PUMPED STORAGE HYDROELECTRIC PROJECT

FERC LICENSE NO. 13318 | FERC DWG NO. P-13318-1009

PLAN VIEW AT ELEVATION 4231.5

DATE:	SCALE:	EXHIBIT F DWG:
APRIL 30, 2019	AS NOTED	IH-SWAN-F-050-10002

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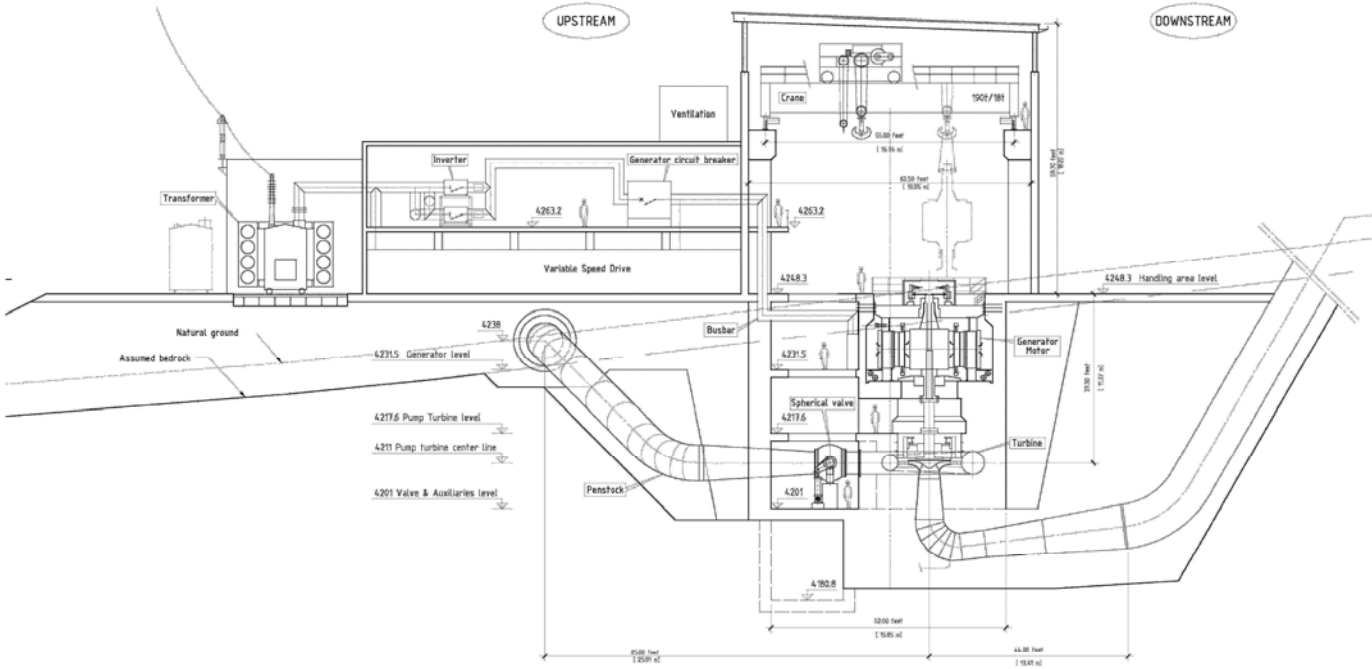
Transversal cross section A-A



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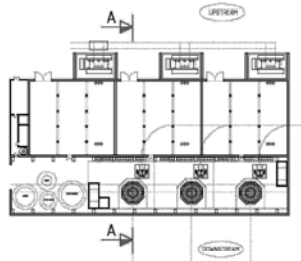

DRAWINGS LIST EM :

IH-SWAN-×-F-050-×-0001 - PLAN VIEW AT ELEVATION 4248.30
IH-SWAN-×-F-050-×-0002 - PLAN VIEW AT ELEVATION 4231.5
IH-SWAN-×-F-050-×-0003 - PLAN VIEW AT ELEVATIONS 4217.6 and 4201
IH-SWAN-×-F-050-×-0004 - TRANSVERSAL CROSS SECTION A-A
IH-SWAN-×-F-050-×-0005 - PLAN VIEW AT ELEVATION 4263.2

SWAN LAKE :
3 reversible units - $P_{max\ tur}$ = 3 x 134MW - Q_{max} = 3 x 29m³/s - N_{min} = 720rpm - H_{gross} = 524m

SWAN LAKE NORTH HYDRO LLC
SWAN LAKE NORTH
PUMPED STORAGE HYDROELECTRIC PROJECT

FERC LICENSE NO. 13318 | FERC DWG NO. P-13318-1011

TRANSVERSAL CROSS SECTION A-A

DATE:	SCALE:	EXHIBIT F DWG:
APRIL 30, 2019	AS NOTED	IH-SWAN-F-050-10004

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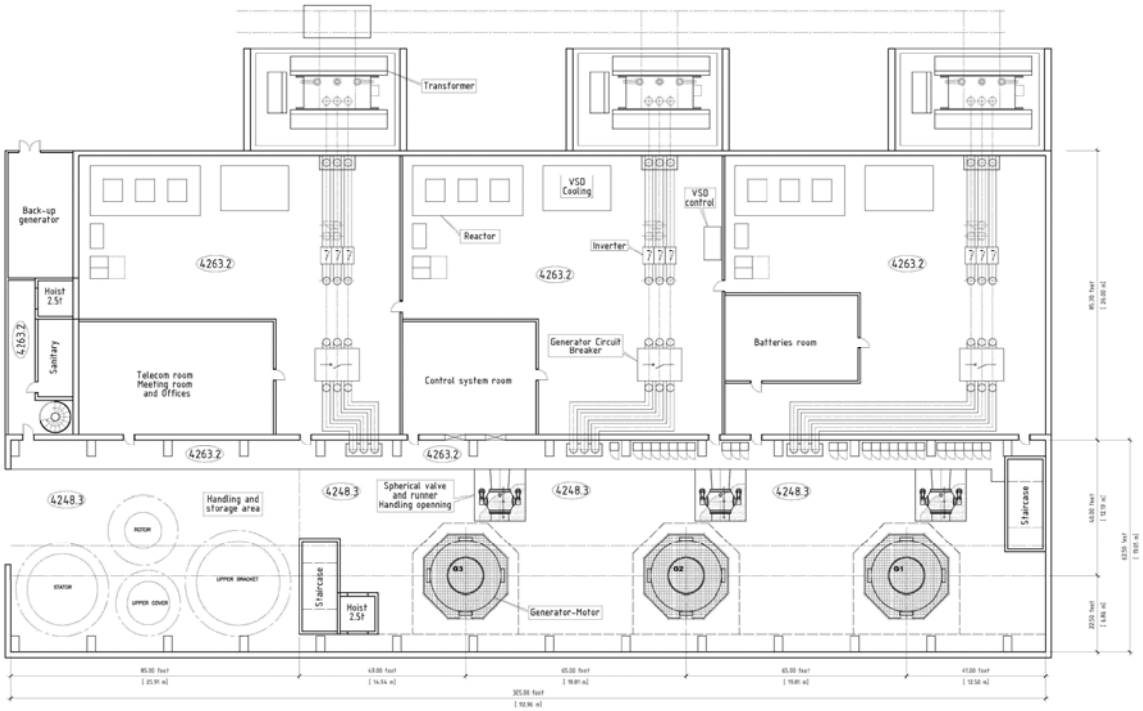
Electrotech level 4263.2



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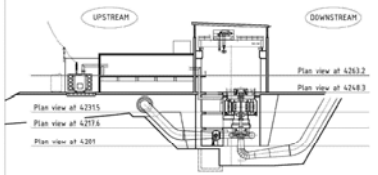

DRAWINGS LIST EM :

IH-SWAN-*-F-050-*-0001 - PLAN VIEW AT ELEVATION 4248.30
IH-SWAN-*-F-050-*-0002 - PLAN VIEW AT ELEVATION 4231.5
IH-SWAN-*-F-050-*-0003 - PLAN VIEW AT ELEVATIONS 4217.6 and 4201
IH-SWAN-*-F-050-*-0004 - TRANSVERSAL CROSS SECTION A-A
IH-SWAN-*-F-050-*-0005 - PLAN VIEW AT ELEVATION 4263.2

SWAN LAKE :
3 reversible units - $P_{max\ tur}$ = 3 x 134MW - Q_{max} = 3 x 29m³/s - N_{nom} = 720rpm - H_{gross} = 524m

SWAN LAKE NORTH HYDRO LLC
SWAN LAKE NORTH
PUMPED STORAGE HYDROELECTRIC PROJECT
FERC LICENSE NO. 13318 — FERC DWG NO. P-13318-1012

PLAN VIEW AT ELEVATION 4263.2

DATE:	SCALE:	EXHIBIT F DWG:
APRIL 30, 2019	AS NOTED	IH-SWAN-F-050-10005

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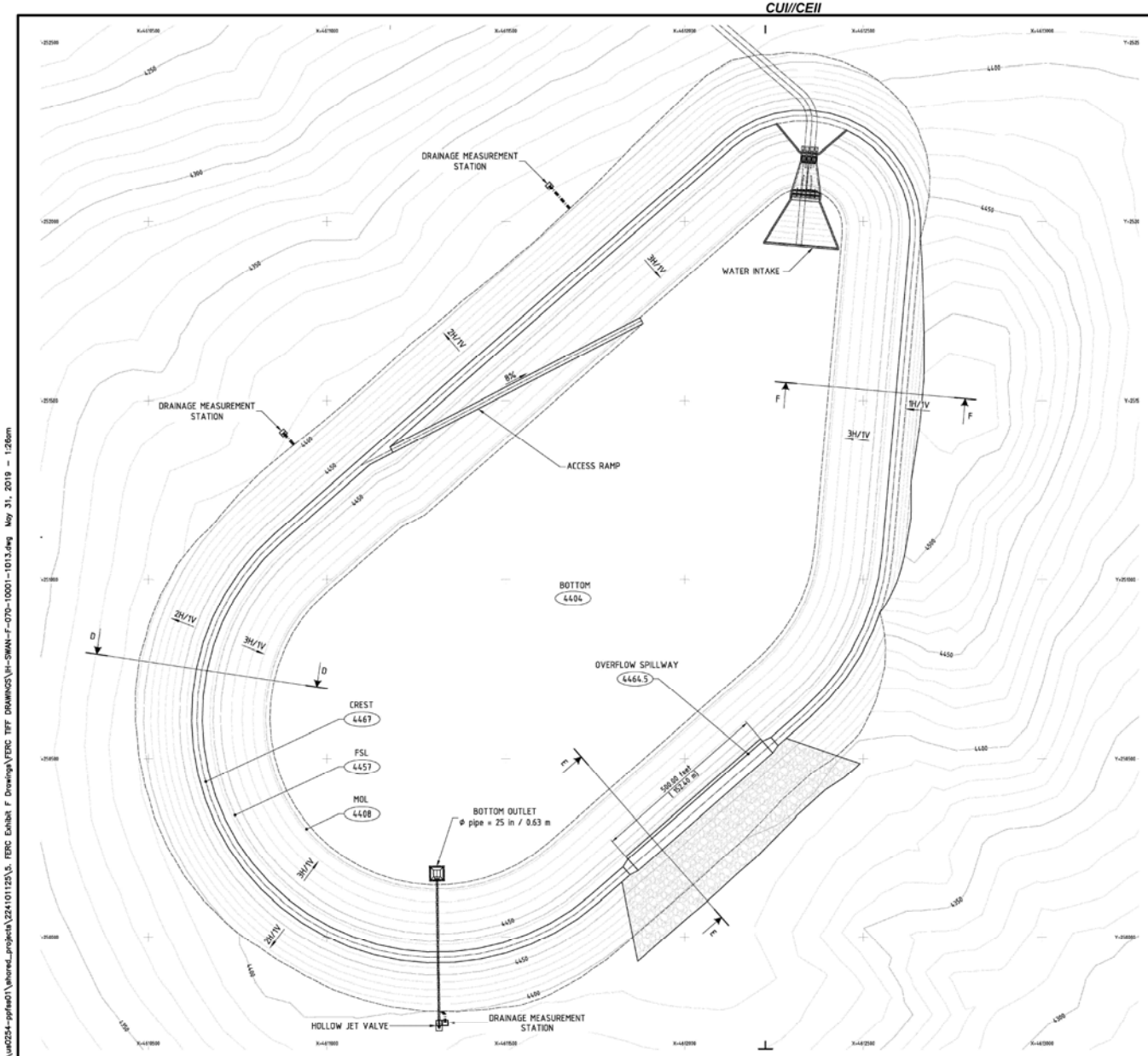

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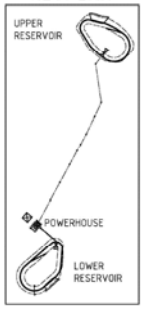

Ech : A1 1/5000 – A3 1/10000

0 50 100 200 feet

0 10 50 100 meters

The drawing unit is the foot.

SWAN LAKE NORTH HYDRO LLC SWAN LAKE NORTH PUMPED STORAGE HYDROELECTRIC PROJECT FERC LICENSE NO. 13318		FERC DWG NO. P-13318-1013
LOWER RESERVOIR - PLAN VIEW		
DATE: APRIL 30, 2019	SCALE: AS NOTED	EXHIBIT F DWG: IH-SWAN-F-070-10001

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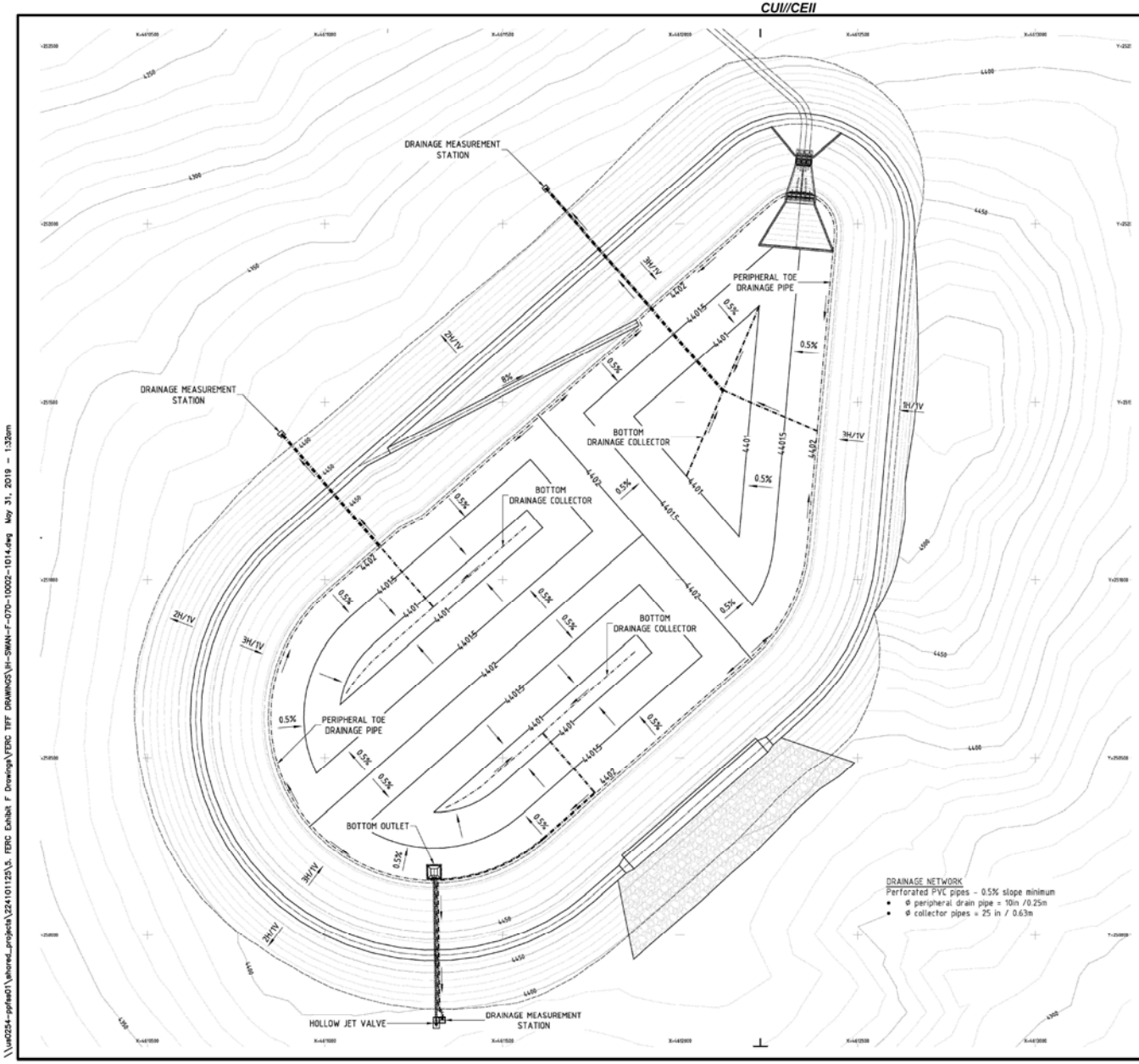
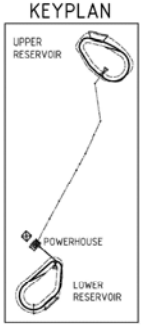


DRAINAGE NETWORK
Perforated PVC pipes - 0.5% slope minimum
- ϕ peripheral drain pipe = 10in /0.25m
- ϕ collector pipes = 25 in / 0.63m

N

KEYPLAN



Ech : A1 1/5000 - A3 1/10000

0 50 100 200 feet

0 10 50 100 meters

The drawing unit is the foot.

SWAN LAKE NORTH HYDRO LLC
SWAN LAKE NORTH
PUMPED STORAGE HYDROELECTRIC PROJECT
FERC LICENSE NO. 13318 FERC DWG NO. P-13318-1014

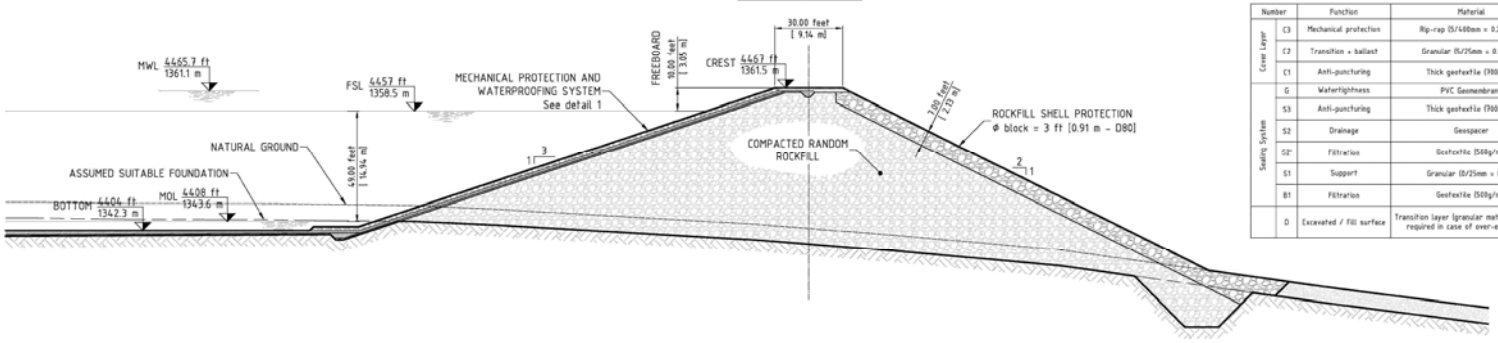
LOWER RESERVOIR - DRAINAGE SYSTEM - PLAN VIEW

DATE:	SCALE:	EXHIBIT F DWG:
APRIL 30, 2019	AS NOTED	IH-SWAN-F-070-10002

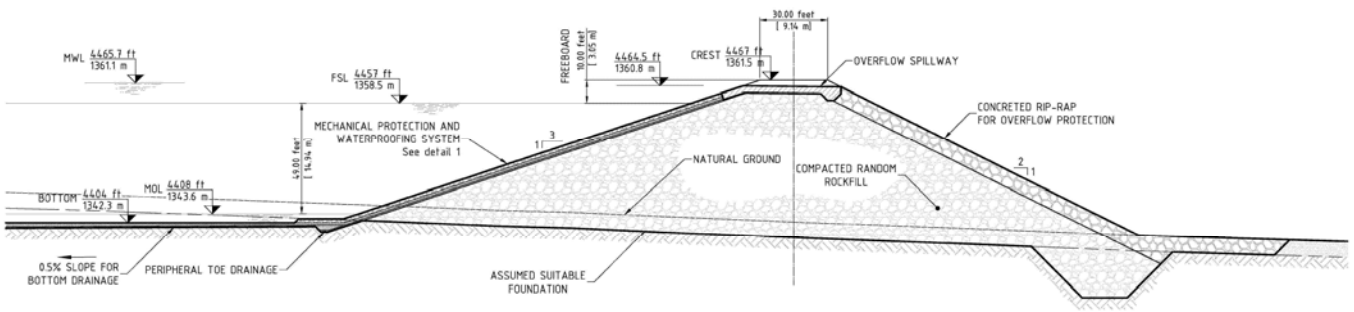
\\uat0254-pofwd01\shared_projects\224101123\5. FERC Exhibit F Drawings\FERC TIFF DRAWINGS\IH-SWAN-F-070-10002-1014.dwg May 31, 2019 - 1:32pm

NOTE : the positions of the sections D-D, E-E and F-F are indicated on drawing n° IH-SWAN-F-070-10001

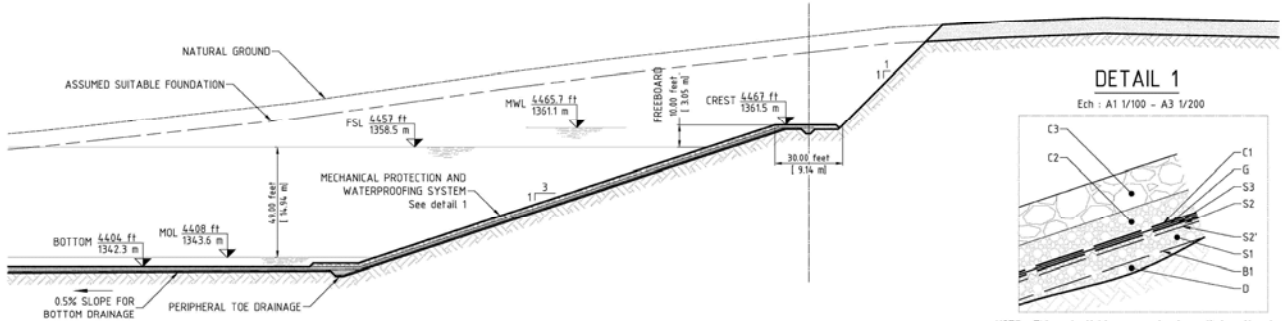
SECTION D-D



SECTION E-E



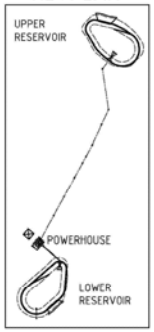
SECTION F-F



DETAIL 1 - WATERPROOFING SYSTEM DESCRIPTION

Number		Function	Material	Thickness
Cover Layer	C3	Mechanical protection	Rip-rap (5/400mm = 0.20/15in)	19.7in = 500mm
	C2	Transition + ballast	Granular (5/25mm = 0.20/1in)	11.8in = 300 mm
	C1	Anti-puncturing	Thick geotextile (700g/m²)	0.22in = 5.5mm
Sealing System	G	Watertightness	PVC Geomembrane	0.08in = 2mm
	S3	Anti-puncturing	Thick geotextile (700g/m²)	0.22in = 5.5mm
	S2	Drainage	Geospacer	0.30in = 7.5mm
	S2'	Filtration	Geotextile (500g/m²)	0.22in = 5.5mm
	S1	Support	Granular (0/25mm = 0/1in)	7.9in = 200 mm
	B1	Filtration	Geotextile (500g/m²)	0.22in = 5.5mm
	D	Excavated / Fill surface	Transition layer (granular material) might be required in case of over-excavations.	-

KEYPLAN



Ech : A1 1/1000 - A3 1/2000

0 10 25 50 feet

0 5 10 20 meters

Ech : A1 1/100 - A3 1/200

0 1 2.5 5 feet

0 0.5 1 2 meters

The drawing unit is the foot.

DETAIL 1

Ech : A1 1/100 - A3 1/200

NOTE : This watertightness complex is applied on the slopes; at the bottom the mechanical protection (C3 layer) is deleted.

SWAN LAKE NORTH HYDRO LLC
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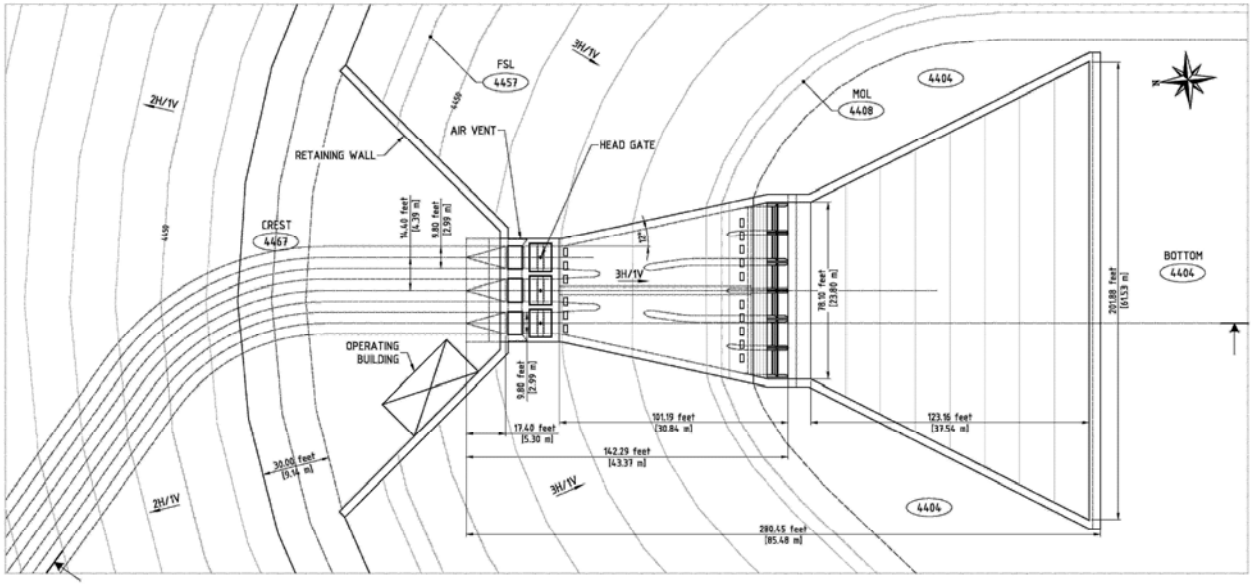
PUMPED STORAGE HYDROELECTRIC PROJECT
FERC LICENSE NO. 13318 FERC DWG NO. P-13318-1015

LOWER RESERVOIR -
TYPICAL CROSS SECTIONS

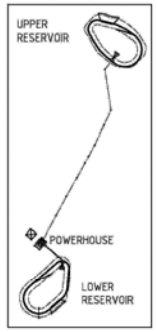
DATE:	SCALE:	EXHIBIT F DWG:
APRIL 30, 2019	AS NOTED	IH-SWAN-F-070-10003

U:\22410112\5. FERC Exhibit F Drawings\FERC TIFF DRAWINGS\IH-SWAN-F-070-10003-1015.dwg May 31, 2019 - 9:50am

WATER INTAKE - PLAN VIEW



KEYPLAN



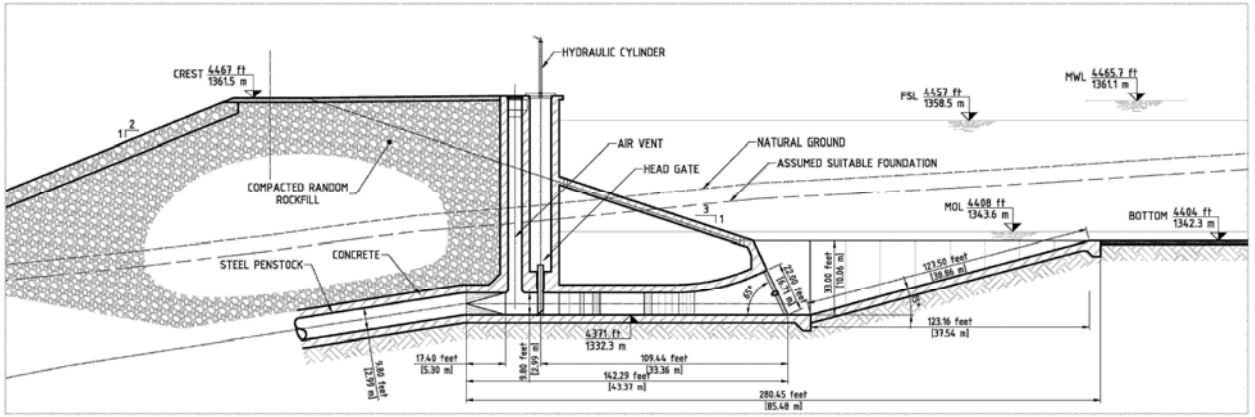
Ech : A1 1/1000 – A3 1/2000

0 10 25 50 feet

0 5 10 20 meters

The drawing unit is the foot.

WATER INTAKE - CROSS SECTION



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PUMPED STORAGE HYDROELECTRIC PROJECT

FERC LICENSE NO. 13318 | FERC DWG NO. P-13318-1016

LOWER RESERVOIR - WATER INTAKE -
PLAN VIEW AND CROSS SECTION

DATE:	SCALE:	EXHIBIT F DWG:
APRIL 30, 2019	AS NOTED	IH-SWAN-F-070-10004