

**General Layout Plan and Supporting Data
for Power Development Purposes Associated with the
Keyask Project (Generation and Transmission) on the Nelson River
in accordance with Sections 11 to 13 of the Regulations under
the Water Power Act (C.C.S.Mc. W60)**

---Figure and Map Folio---

LIST OF FIGURES AND MAPS

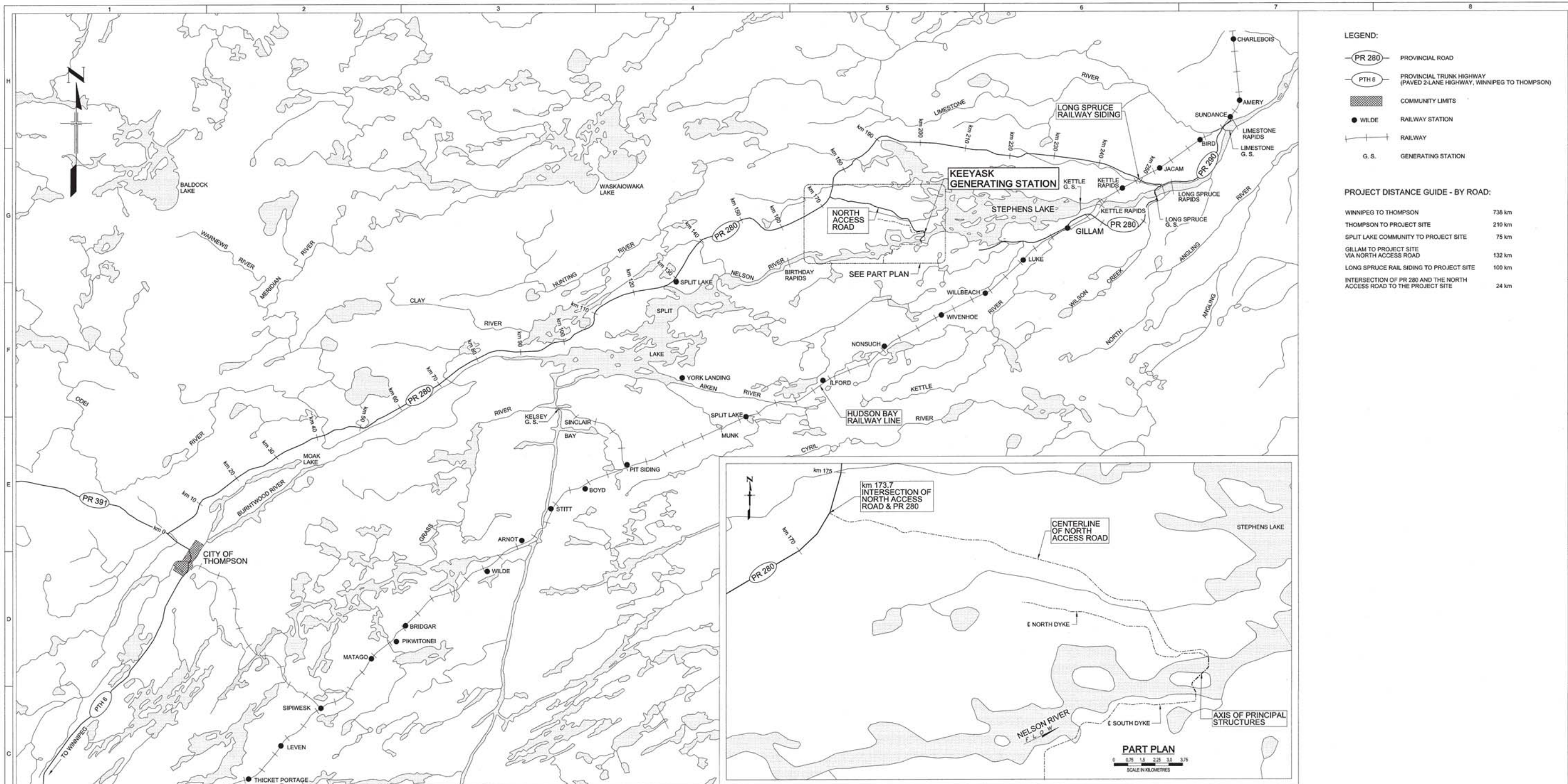
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Figure Number	Figure Title	Figure Reference Number	Conservation Water Stewardship File number
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19	BASIS FOR DESIGN GENERAL ARRANGEMENT CONSTRUCTION DIVERSION AND STAGING	1-00195-DE-06200-0014-0001	WULS-1-00195-DE-06200-0014-0001
20	BASIS FOR DESIGN GENERAL ARRANGEMENT COFFERDAM SECTIONS	1-00195-DE-06200-0015-0001	WULS-1-00195-DE-06200-0015-0001
21	STAGE I COFFERDAMS STAGE I DIVERSION PLAN	1-00195-DE-11430-0001-0001	WULS-1-00195-DE-11430-0001-0001
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23	STAGE I COFFERDAMS NORTH CHANNEL STAGE I COFFERDAM PLAN AND SECTIONS	1-00195-DE-21600-0003-0001	WULS-1-00195-DE-21600-0003-0001
24	STAGE I COFFERDAMS NORTH CHANNEL ROCK GROIN PLAN AND SECTIONS	1-00195-DE-21600-0004-0001	WULS-1-00195-DE-21600-0004-0001
25	STAGE I COFFERDAMS STAGE I ISLAND COFFERDAM PLAN, SECTION AND DETAILS	1-00195-DE-21600-0005-0001	WULS-1-00195-DE-21600-0005-0001
26	STAGE I COFFERDAMS SPILLWAY STAGE 1 COFFERDAM PLAN, SECTIONS, PROFILES & DETAIL	1-00195-DE-21600-0006-0001	WULS-1-00195-DE-21600-0006-0001
27	STAGE I COFFERDAMS SPILLWAY STAGE 1 COFFERDAM PLAN, SECTIONS, PROFILES & DETAIL	1-00195-DE-21600-0006-0002	WULS-1-00195-DE-21600-0006-0002
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29	STAGE I COFFERDAMS CENTRAL DAM STAGE I COFFERDAM PLAN SECTION AND DETAILS	1-00195-DE-21600-0008-0001	WULS-1-00195-DE-21600-0008-0001
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35	CONCRETE STRUCTURES - EXCAVATION	1-00195-DE-06200-0016-0001	WULS-1-00195-DE-06200-0016-0001
36	BASIS FOR DESIGN GENERAL	1-00195-DE-06200-0017-0001	WULS-1-00195-DE-06200-0017-0001

Figure Number	Figure Title	Figure Reference Number	Conservation Water Stewardship File number
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38	SERVICE BAY CROSS SECTION	1-00195-DE-06200-0029-0001	WULS-1-00195-DE-06200-0029-0001
39	BASIS FOR DESIGN GENERAL ARRANGEMENT POWERHOUSE UNITS 1 TO 7 DEWATERING GALLERY PLAN	1-00195-DE-06200-0020-0001	WULS-1-00195-DE-06200-0020-0001
40	BASIS FOR DESIGN GENERAL ARRANGEMENT POWERHOUSE UNITS 1 TO 3 PLAN AT CENTERLINE OF DISTRIBUTER	1-00195-DE-06200-0021-0001	WULS-1-00195-DE-06200-0021-0001
41	BASIS FOR DESIGN GENERAL ARRANGEMENT POWERHOUSE UNITS 4 TO 7 PLAN AT CENTERLINE OF DISTRIBUTER	1-00195-DE-06200-0022-0001	WULS-1-00195-DE-06200-0022-0001
42	BASIS FOR DESIGN GENERAL ARRANGEMENT POWERHOUSE UNITS 1 TO 3 PLAN AT GENERATOR FLOOR	1-00195-DE-06200-0025-0001	WULS-1-00195-DE-06200-0025-0001
43	BASIS FOR DESIGN GENERAL ARRANGEMENT POWERHOUSE UNITS 4 TO 7 PLAN AT GENERATOR FLOOR	1-00195-DE-06200-0026-0001	WULS-1-00195-DE-06200-0026-0001
44	BASIS FOR DESIGN GENERAL ARRANGEMENT POWERHOUSE LONGITUDINAL SECTION	1-00195-DE-06200-0027-0001	WULS-1-00195-DE-06200-0027-0001
45	BASIS FOR DESIGN GENERAL ARRANGEMENT SERVICE BAY PLANS AT EL 126.6 & EL 141.7	1-00195-DE-06200-0030-0001	WULS-1-00195-DE-06200-0030-0001
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51	BASIS FOR DESIGN GENERAL ARRANGEMENT SPILLWAY ELEVATION	1-00195-DE-06200-0036-0001	WULS-1-00195-DE-06200-0036-0001
52	BASIS FOR DESIGN GENERAL ARRANGEMENT POWERHOUSE TRANSITION STRUCTURES - PLANS & SECTIONS	1-00195-DE-06200-0037-0001	WULS-1-00195-DE-06200-0037-0001
53	BASIS FOR DESIGN GENERAL	1-00195-DE-06200-0038-0001	WULS-1-00195-DE-06200-0038-0001

Figure Number	Figure Title	Figure Reference Number	Conservation Water Stewardship File number
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55	BASIS FOR DESIGN GENERAL ARRANGEMENT SPILLWAY TRANSITION STRUCTURES PLANS & SECTIONS	1-00195-DE-06200-0040-0001	WULS-1-00195-DE-06200-0040-0001
56	BASIS FOR DESIGN GENERAL ARRANGEMENT SPILLWAY WALLS 'A', 'B', 'C', & 'D' PLANS, ELEVATIONS & SECTIONS	1-00195-DE-06200-0041-0001	WULS-1-00195-DE-06200-0041-0001
57	BASIS FOR DESIGN GENERAL ARRANGEMENT POWERHOUSE WALL 'E' PLAN, ELEVATION, & SECTION	1-00195-DE-06200-0042-0001	WULS-1-00195-DE-06200-0042-0001
58	CONSTRUCTION POWER STATION 138- 12KV STATION SITE LAYOUT	1-02820-DD-10100-001_0001	WULS-1-02820-DD-10100-0001_0001
59	SWITCHING STATION CONCEPT LAYOUT FOR 138kV STATION	1-02811-DD-10100-0001_0001	WULS-1-02811-DD-10100-0001_0001
60	RADISSON STATION OVERALL STATION LAYOUT	1-42100-E-42001_0001	WULS-1-42100-E-42001_0001
61	KETTLE GENERATING STATION PRINCIPAL STRUCTURES GENERAL ARRANGEMENT PLAN AND TRANSVERSE SECTIONS	1-00113-DE-22000-0001_01	WULS-1-00113-DE-22000-0001_01
62	KELSEY GENERATING STATION GENERAL ARRANGEMENT OF DEVELOPMENT	1-00111-DD-10100-0004-0001	WULS-1-00111-DD-10100-0004-0001
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65	SOUTH ACCESS ROAD – GENERAL ARRANGEMENT	1-00195-DE-16100-0006 0001	WULS-1-00195-DE-16100-0006 0001

Map Number	Map Name	Map Reference Number	Conservation Water Stewardship File number
1	Project Location	1-00195-07310-D-0001_0001	WULS-1-00195-07310-D-0001_0001
2	Excavated Material Placement Areas	1-00195-07310-D-0002_0001	WULS-1-00195-07310-D-0002_0001
3	Keyyask Generating Station WPA Survey Permit – Location of Field Exploration Studies	1-00195-07310-D-0003_0001	WULS-1-00195-07310-D-0003_0001
4	Keyyask Land Acquisition Master Plan	1-00195-07310-D-0004_0001	WULS-1-00195-07310-D-0004_0001
5	Keyyask Transmission Project Preliminary Transmission Corridors During Keyyask Generation Project Construction Phase	1-00195-07310-D-0005_0001	WULS-1-00195-07310-D-0005_0001
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8	Keyyask Lands Required During Construction – Site Level	1-00195-07310-D-0008_0001	WULS-1-00195-07310-D-0008_0001
9	Keyyask Lands Required During Operation – Overview Level	1-00195-07310-D-0009_0001	WULS-1-00195-07310-D-0009_0001
10	Keyyask Lands Required During Operation – Site Level	1-00195-07310-D-0010_0001	WULS-1-00195-07310-D-0010_0001
11	Keyyask Generating Station Elevation Contours and Bathymetry	1-00195-07310-D-0011_0001	WULS-1-00195-07310-D-0011_0001
12-1 to 12-11	Keyyask Project – Elevation Contours	Not Available	Not Available



- LEGEND:**
- PROVINCIAL ROAD
 - PROVINCIAL TRUNK HIGHWAY (PAVED 2-LANE HIGHWAY, WINNIPEG TO THOMPSON)
 - COMMUNITY LIMITS
 - WILDE RAILWAY STATION
 - RAILWAY
 - GENERATING STATION

PROJECT DISTANCE GUIDE - BY ROAD:

WINNIPEG TO THOMPSON	738 km
THOMPSON TO PROJECT SITE	210 km
SPLIT LAKE COMMUNITY TO PROJECT SITE	75 km
GILLAM TO PROJECT SITE VIA NORTH ACCESS ROAD	132 km
LONG SPRUCE RAIL SIDING TO PROJECT SITE	100 km
INTERSECTION OF PR 280 AND THE NORTH ACCESS ROAD TO THE PROJECT SITE	24 km

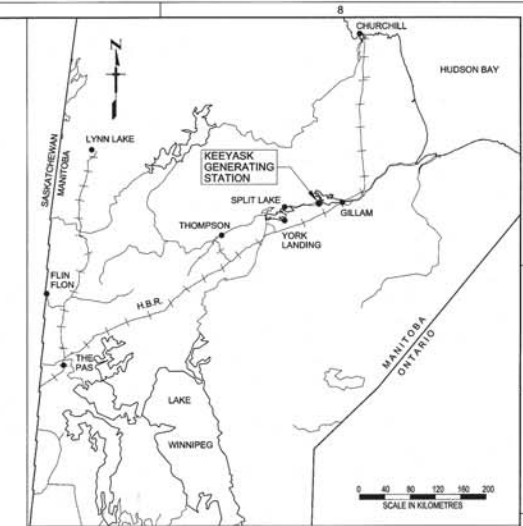
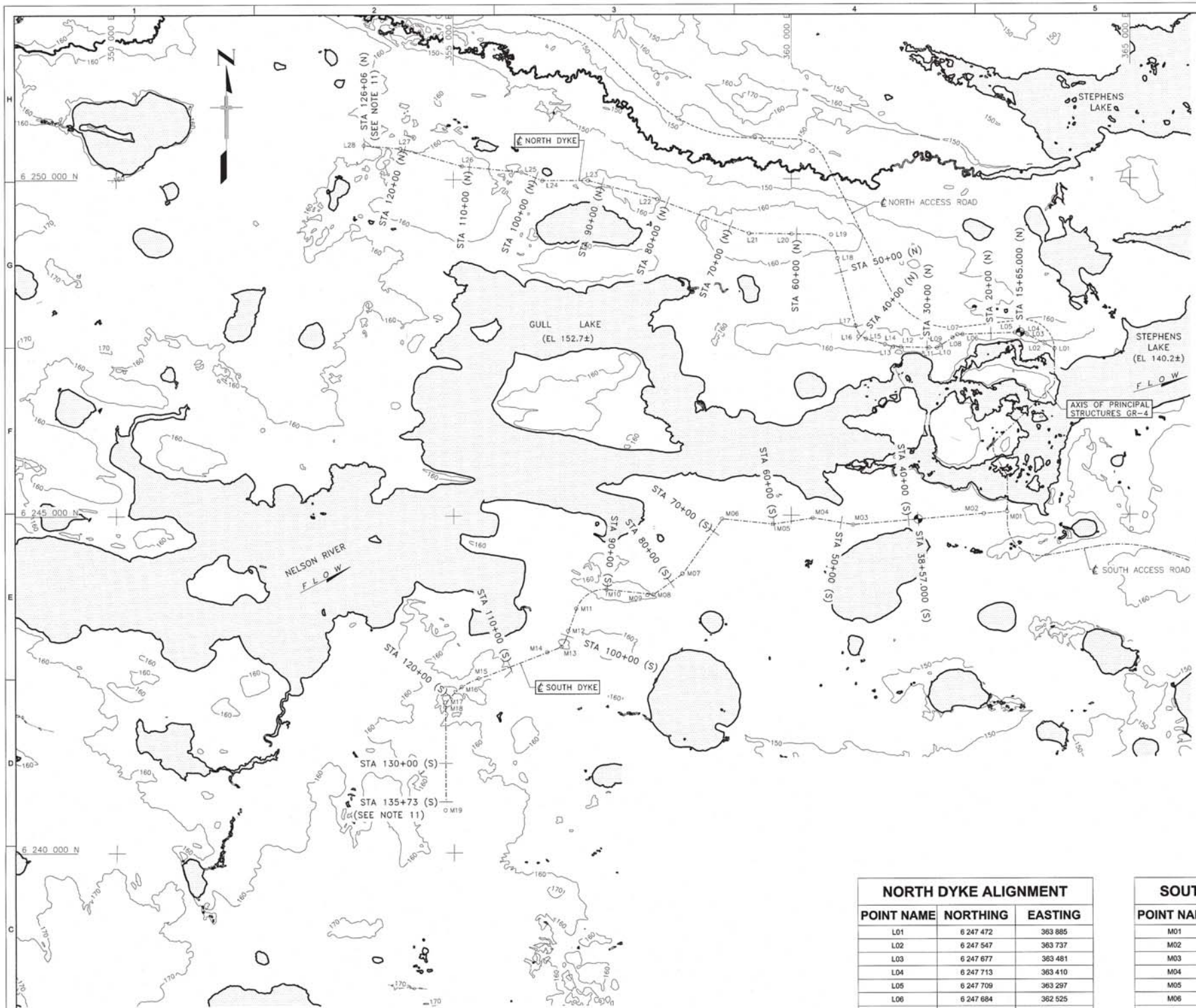
AREA PLAN



Issued for Proposal - RFP 016203					
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2013-03-15					
REV.	DATE	DESCRIPTION	BY	CHKD.	APP.P. ENG.
DRAWN: R. REYES		CHECKED:	SCALE: 1:300 000		
DESIGNED: P. PANTEL		CHECKED:	DATE:		
KEEYASK GENERATING STATION					
PROJECT SITE ACCESS					
DRAWING NUMBER		SHEET	REVISION		
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 P. PANTEL
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 DISCIP. ENGR.
 R. HALIM
 DATE
 PROJ. ENGR.
 A. TRUDELL
 DATE
 PROJ. MGR.
 W. GENDZEL
 DATE

Manitoba Hydro
 AUTHENTICATION FOR CURRENT REVISION



- LEGEND:**
- SHORELINE (SEE NOTE 6)
 - 160— GROUND SURFACE CONTOUR (SEE NOTE 7)
 - STA 50+00 (N) STATIONING ALONG AXIS AND CENTERLINE OF NORTH BANK EARTH STRUCTURES (SEE NOTE 9)
 - STA 50+00 (S) STATIONING ALONG AXIS AND CENTERLINE OF SOUTH BANK EARTH STRUCTURES (SEE NOTE 9)
 - ⊕ REFERENCE POINT (SEE NOTE 10)
 - + COORDINATE GRID MARKER

- NOTES:**
1. TOPOGRAPHY IS BASED ON MAPPING RECEIVED FROM MANITOBA HYDRO MARCH 2004.
 2. MAPPING WAS PRODUCED USING PHOTOGRAMMETRIC METHODS BASED ON 1:20 000 SCALE PHOTOGRAPHY DATED OCTOBER 1986.
 3. THE COORDINATE GRID IS BASED ON UNIVERSAL TRANSVERSE MERCATOR SYSTEM, ZONE 15, NORTH AMERICAN DATUM 1983.
 4. COORDINATES, STATIONING AND ELEVATIONS ARE IN METRES.
 5. ELEVATIONS ARE BASED ON CGVD 1928.
 6. WATER SURFACE ELEVATION AND LOCATIONS OF SHORELINES ARE APPROXIMATE AND RELATE TO THE DATE OF PHOTOGRAPHY.
 7. CONTOUR INTERVAL IS 10 METRES.
 8. DYKE CENTERLINES SHOWN ARE FOR THE AXIS GR-4 ALTERNATIVE ARRANGEMENT, WITH NORMAL FULL SUPPLY LEVEL AT EL. 159.0.
 9. STATIONING IS BASED ON DISTANCE ALONG THE NORTH AND SOUTH BANK EARTH STRUCTURES' AXES AND CENTERLINES FOR AXIS GR-3 ALTERNATIVE ARRANGEMENT WITH FULL NORMAL SUPPLY LEVEL AT EL. 159.0. FOR THE NORTH BANK STATION 0+00 IS LOCATED AT COORDINATES 6 246 876.230 N AND 364 450.762 E. FOR THE SOUTH BANK STATION 0+00 IS LOCATED AT COORDINATES 6 248 476.050 N AND 364 543.280 E.
 10. THE REFERENCE POINTS ARE LOCATED AT THE STATIONS WHERE THE NORTH AND SOUTH DYKE CENTERLINES FOR AXIS GR-4 INTERSECT WITH THE NORTH AND SOUTH DYKE CENTERLINES FOR AXIS GR-3 ALTERNATIVE ARRANGEMENT.
 11. THE LAST STATION SHOWN FOR THE NORTH AND SOUTH DYKES IS BASED ON THE POINT WHERE THE FREEBOARD DYKE CREST DESIGN ELEVATION INTERSECTS WITH THE GROUND SURFACE INTERPRETED FROM TOPOGRAPHIC MAPPING AND THEREFORE IS APPROXIMATE.

PLAN

NORTH DYKE ALIGNMENT		
POINT NAME	NORTHING	EASTING
L01	6 247 472	363 885
L02	6 247 547	363 737
L03	6 247 677	363 481
L04	6 247 713	363 410
L05	6 247 709	363 297
L06	6 247 684	362 525
L07	6 247 682	362 445
L08	6 247 635	362 376
L09	6 247 520	362 205
L10	6 247 486	362 155
L11	6 247 489	362 034
L12	6 247 498	361 617
L13	6 247 501	361 505
L14	6 247 538	361 383
L15	6 247 621	361 105
L16	6 247 655	360 993
L17	6 247 816	360 950
L18	6 248 819	360 681
L19	6 249 170	360 587
L20	6 249 180	360 000
L21	6 249 190	359 376
L22	6 249 703	358 015
L23	6 249 982	356 995
L24	6 249 982	356 315
L25	6 250 107	356 005
L26	6 250 198	355 126
L27	6 250 459	354 215
L28	6 250 508	353 671

SOUTH DYKE ALIGNMENT		
POINT NAME	NORTHING	EASTING
M01	6 245 048	363 182
M02	6 245 019	362 838
M03	6 244 857	360 913
M04	6 244 957	360 315
M05	6 244 868	359 725
M06	6 244 948	358 975
M07	6 244 137	358 387
M08	6 243 828	357 955
M09	6 243 823	357 867
M10	6 243 903	357 263
M11	6 243 622	356 812
M12	6 243 292	356 694
M13	6 243 057	356 696
M14	6 242 973	356 379
M15	6 242 588	356 366
M16	6 242 461	355 114
M17	6 242 232	354 869
M18	6 242 158	354 869
M19	6 240 634	354 869



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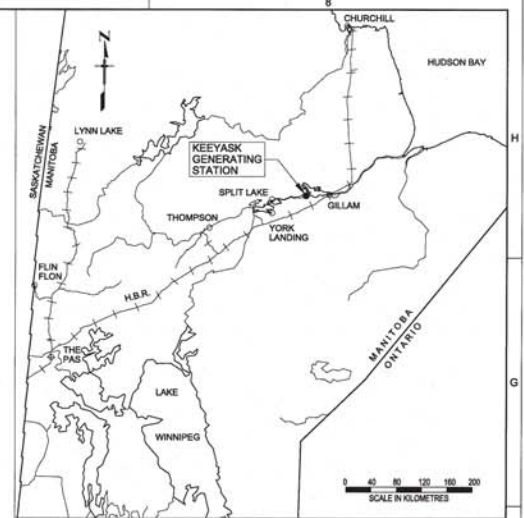
Manitoba Hydro
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 2013-04-22

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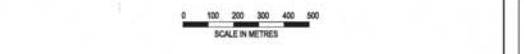
KEYEYASK GENERATING STATION
BASIS FOR DESIGN
GENERAL ARRANGEMENT
PROJECT AREA

DRAWING NUMBER	SHEET	REVISION
1-00195-DE-06200-0003	0001	0C



- LEGEND:**
- SHORELINE (SEE NOTE 6)
 - 144- GROUND SURFACE CONTOUR (SEE NOTE 7)
 - STREAM
 - ◉ SWAMP
 - + COORDINATE GRID MARKER (LOCATED AT 2000 METRE INTERVALS)
 - TEMPORARY CONSTRUCTION ACCESS ROAD
 - COFFERDAM REMOVED
 - TRANSMISSION LINE
 - ⊙ REFERENCE POINT (SEE NOTE 10)

- NOTES:**
1. TOPOGRAPHY IS BASED ON MAPPING RECEIVED FROM MANITOBA HYDRO MARCH, 2004.
 2. MAPPING WAS PRODUCED USING PHOTOGRAMMETRIC METHODS BASED ON 1:20 000 SCALE PHOTOGRAPHY DATED OCTOBER 1986.
 3. COORDINATE GRID SHOWN IS BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION, ZONE 15, NORTH AMERICAN DATUM 1983.
 4. COORDINATES AND ELEVATIONS ARE IN METRES.
 5. ELEVATIONS ARE BASED ON CGVD 1928.
 6. LOCATIONS OF SHORELINES ARE APPROXIMATE AND RELATE TO THE DATE OF PHOTOGRAPHY.
 7. CONTOUR INTERVAL IS 2 METRES.
 8. LOCATION AND PRESENTATION OF CONCRETE AND EARTHFILL STRUCTURES IS PRELIMINARY.
 9. STATIONING IS BASED ON DISTANCE ALONG THE NORTH AND SOUTH BANK EARTH STRUCTURES' AXES AND CENTERLINES FOR AXIS GR-3 ALTERNATIVE ARRANGEMENT WITH FULL SUPPLY LEVEL AT EL. 159.0 FOR THE NORTH BANK STATION 0+00 IS LOCATED AT COORDINATES 6 246 876.230 N AND 364 450.762 E. FOR THE SOUTH BANK STATION 0+00 IS LOCATED AT COORDINATES 6 246 476.050 N AND 364 543.280 E.
 10. THE REFERENCE POINTS ARE LOCATED AT THE STATIONS WHERE THE NORTH AND SOUTH DYKE CENTERLINES FOR AXIS GR-4 INTERSECT WITH THE NORTH AND SOUTH DYKE CENTERLINES FOR AXIS GR-3 ALTERNATIVE ARRANGEMENT. FOR THE NORTH DYKE IT IS STA 15+65,000 (N) AND FOR THE SOUTH DYKE IT IS STA 38+57,000 (S).
 11. EXISTING AND PROPOSED LAYOUT CONTROL POINTS FOR LOCAL AND UTM COORDINATE SYSTEMS ARE PROVIDED ON DRAWING 1-00195-DE-11000-0001 "PROJECT LAYOUT CONTROL PLANS".
 12. DETAILS FOR KEYASK GS CONSTRUCTION INFRASTRUCTURE ARE PROVIDED ON DRAWINGS DEVELOPED FOR THE KEYASK INFRASTRUCTURE PROJECT (KIP) AND ARE FILED UNDER MANITOBA HYDRO S.C.I. CODE 16100 DRAWINGS.



CLIENT REVIEW

PLAN

HATCH		Manitoba Hydro	
AREA COOR P. PANTEL DATE DISCIP. ENG R. HALIM DATE PROJ. ENGR A. TRUDEJ DATE PROJ. MGR. W. GENZELJEVICH DATE	DRAWN: R.E. GASPAR DESIGNED: P. PANTEL	CHECKED: CHECKED:	SCALE: 1:10000 DATE:
KEYASK GENERATING STATION			
BASIS FOR DESIGN			
GENERAL ARRANGEMENT			
PROJECT GENERAL ARRANGEMENT			
DRAWING NUMBER		SHEET	REVISION
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P. FLEURY		P. PANTEL		1:50000	
DESIGNED:		CHECKED:		DATE:	
P. PANTEL		P. PANTEL			
KEYYASK GENERATING STATION					
BASIS FOR DESIGN					
GENERAL ARRANGEMENT					
POTENTIAL BORROW AREA					
LOCATIONS PLAN					
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AREA COORD
P. PANTEL
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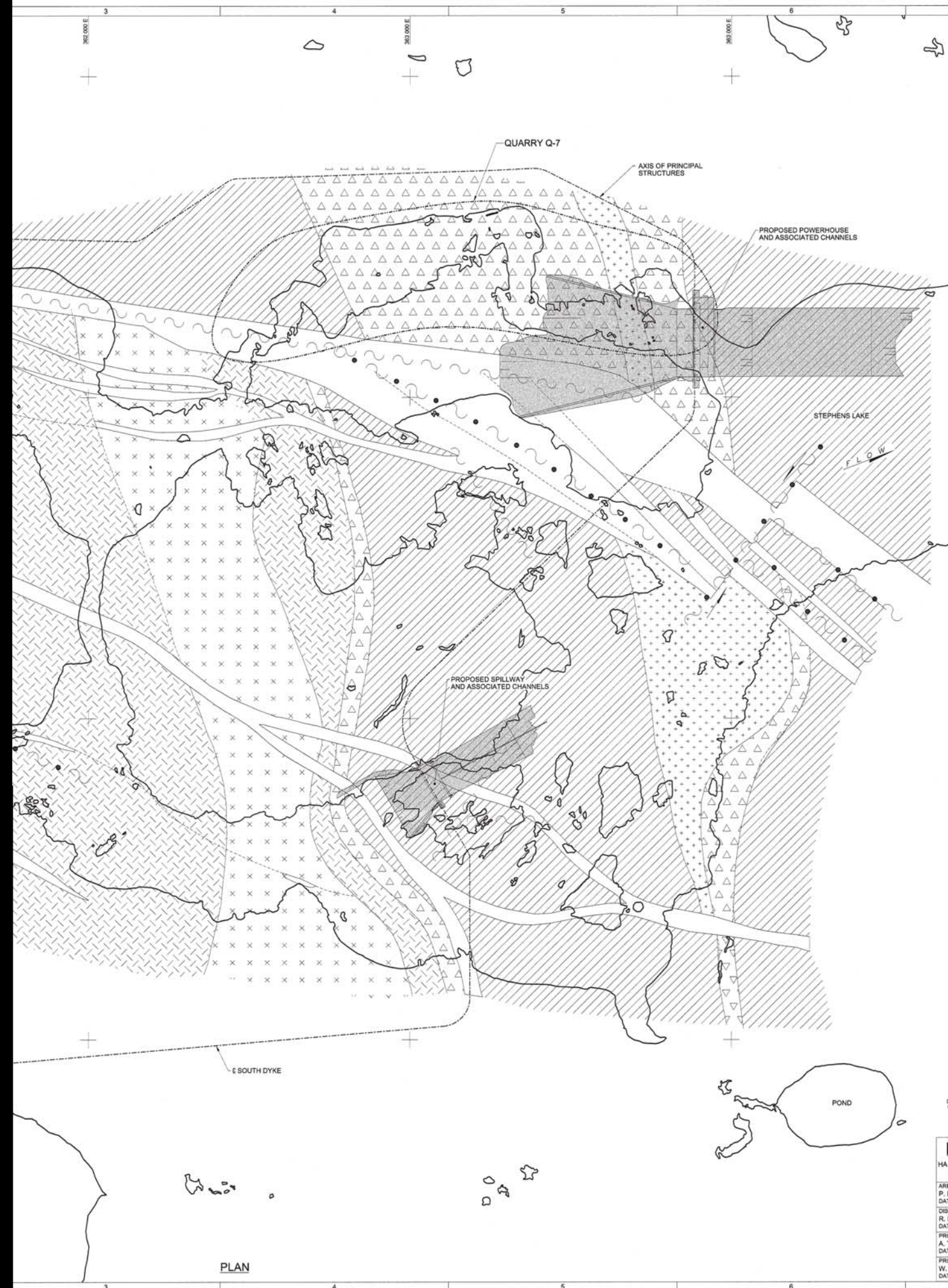
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A. TRUDEL
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LEGEND:

AGE (SEE NOTE 6)	ROCK UNITS IDENTIFIED ON GEOLOGICAL PLAN (SEE NOTE 4)
PALEO-PROTEROZOIC	MAFIC DYKES (DIABASE AND GABBRO) TYPICALLY IDENTIFIED ON DRILL LOGS AS DIABASE DYKES
	GRANITOID INJECTIONS AND PEGMATITE SUBUNITS INCLUDE LEUCOGRANITE, GRANODIORITE AND TONALITE TYPICALLY IDENTIFIED ON DRILL LOGS AS GRANITE/PEGMATITE
PRECAMBRIAN	GRANODIORITE AUGEN GNEISS TYPICALLY IDENTIFIED ON DRILL LOGS AS GRANITE/GRANITE GNEISS
	LEUCOGRANODIORITE AND DERIVED GNEISS TYPICALLY IDENTIFIED ON DRILL LOGS AS GRANITE/GRANITE GNEISS
	GRANODIORITE L-TECTONITE TYPICALLY IDENTIFIED ON DRILL LOGS AS GRANITE GNEISS
ARCHEAN SUPPACRUSTAL ROCKS	METASEDIMENTARY ROCKS, METAGREYWACKE, INTERLAYERED PELITE AND PSAMMITE TYPICALLY IDENTIFIED ON DRILL LOGS AS GREYWACKE GNEISS
	MAFIC VOLCANIC ROCKS, AMPHIBOLITE INTERPRETED AS METABASALT, MASSIVE TO LAMINATED TYPICALLY IDENTIFIED ON DRILL LOGS AS AMPHIBOLITE

	GEOLOGICAL CONTACT (DEFINED, INFERRED)
	DUCTILE DEFORMATION ZONE (SHEAR, FAULT)
	BRITTLE DEFORMATION ZONE (INTENSE JOINTING AND FRACTURING)
	SHORELINE
	COORDINATE GRID MARKER
	AXIS OF PRINCIPAL STRUCTURES / ϵ DYKE
	QUARRY LIMIT (APPROXIMATE)

- NOTES:**
- LOCATIONS OF SHORELINES ARE APPROXIMATE AND WERE PRODUCED USING PHOTOGRAMMETRIC METHODS BASED ON 1:20 000 SCALE PHOTOGRAPHY DATED OCTOBER 1986.
 - THE COORDINATE GRID IS BASED ON UNIVERSAL TRANSVERSE MERCATOR SYSTEM, ZONE 15, NAD83 (CSRS).
 - COORDINATES ARE IN METRES.
 - BEDROCK LITHOLOGIES IN LEGEND ARE BASED ON SURFACE BEDROCK MAPPING INVESTIGATIONS (SEE NOTE 5) AND AS BEDROCK LITHOLOGIES TYPICALLY IDENTIFIED ON DRILL LOGS.
- EXAMPLE:**
- METASEDIMENTARY ROCKS, METAGREYWACKE, INTERLAYERED PELITE AND PSAMMITE BASED ON THE NOMENCLATURE FROM THE MANITOBA GEOLOGICAL SURVEY "REPORT OF ACTIVITIES 2004", MANITOBA INDUSTRY, ECONOMIC DEVELOPMENT AND MINES MANITOBA GEOLOGICAL SURVEY, 2004, REPORT GS-15, PGS. 171-186.
- TYPICALLY IDENTIFIED ON DRILL LOGS AS GREYWACKE GNEISS BASED ON THE NOMENCLATURE FROM MANITOBA HYDRO, JUNE 1995, "NELSON RIVER STUDIES, GULL GENERATING STATION, 1991 SUMMER SUBSURFACE INVESTIGATION PROGRAM", REPORT NO. PSPD 95-3.
- THIS REGIONAL GEOLOGY MAP IS BASED ON FIGURE GS-15-1 FROM THE MANITOBA GEOLOGICAL SURVEY "REPORT OF ACTIVITIES 2004", MANITOBA INDUSTRY, ECONOMIC DEVELOPMENT AND MINES MANITOBA GEOLOGICAL SURVEY, 2004, REPORT GS-15, PGS. 171-186.
 - ARCHEAN RELATIVE AGES NOT IMPLIED.

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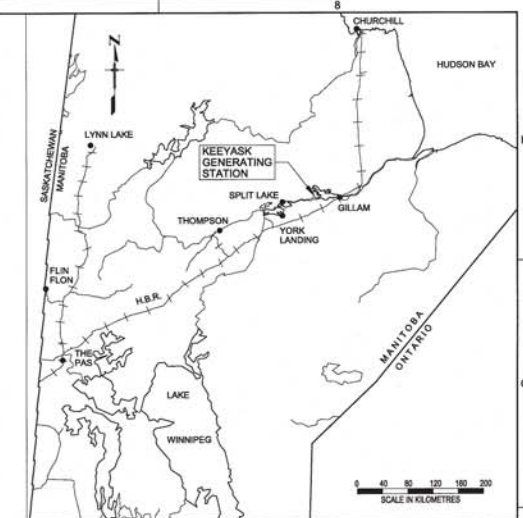
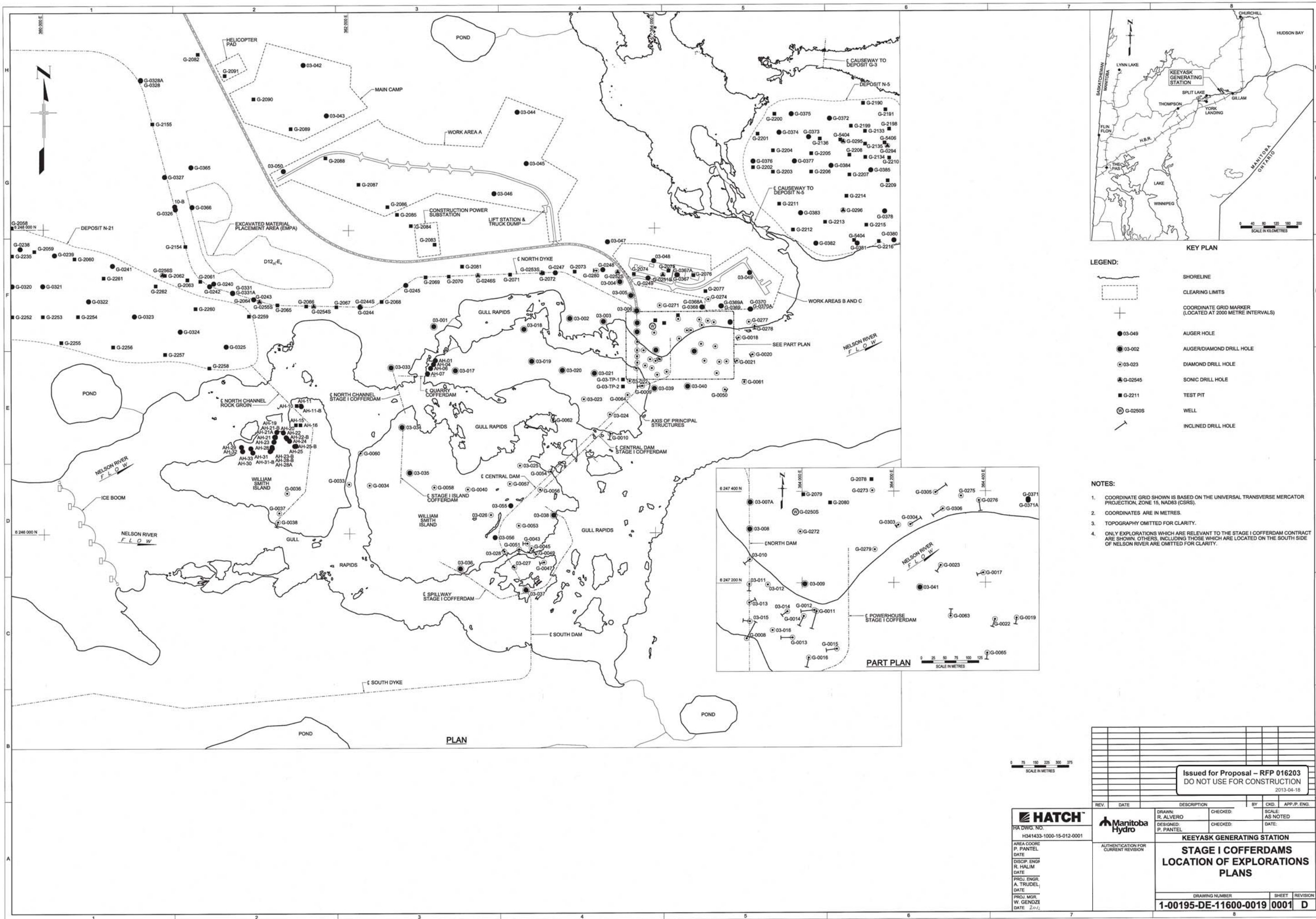
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KEEYASK GENERATING STATION

REGIONAL BEDROCK GEOLOGY

DRAWING NUMBER: 1-00195-DE-11000-0001 SHEET: 0001 REVISION: E

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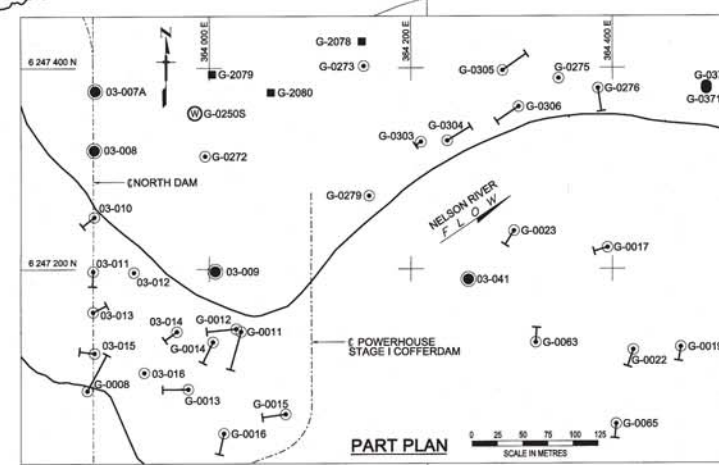


KEY PLAN

LEGEND:

- SHORELINE
- CLEARING LIMITS
- COORDINATE GRID MARKER (LOCATED AT 2000 METRE INTERVALS)
- AUGER HOLE
- AUGER/DIAMOND DRILL HOLE
- DIAMOND DRILL HOLE
- SONIC DRILL HOLE
- TEST PIT
- WELL
- INCLINED DRILL HOLE

- NOTES:**
- COORDINATE GRID SHOWN IS BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION, ZONE 15, NAD83 (CGRS).
 - COORDINATES ARE IN METRES.
 - TOPOGRAPHY OMITTED FOR CLARITY.
 - ONLY EXPLORATIONS WHICH ARE RELEVANT TO THE STAGE I COFFERDAM CONTRACT ARE SHOWN. OTHERS, INCLUDING THOSE WHICH ARE LOCATED ON THE SOUTH SIDE OF NELSON RIVER ARE OMITTED FOR CLARITY.



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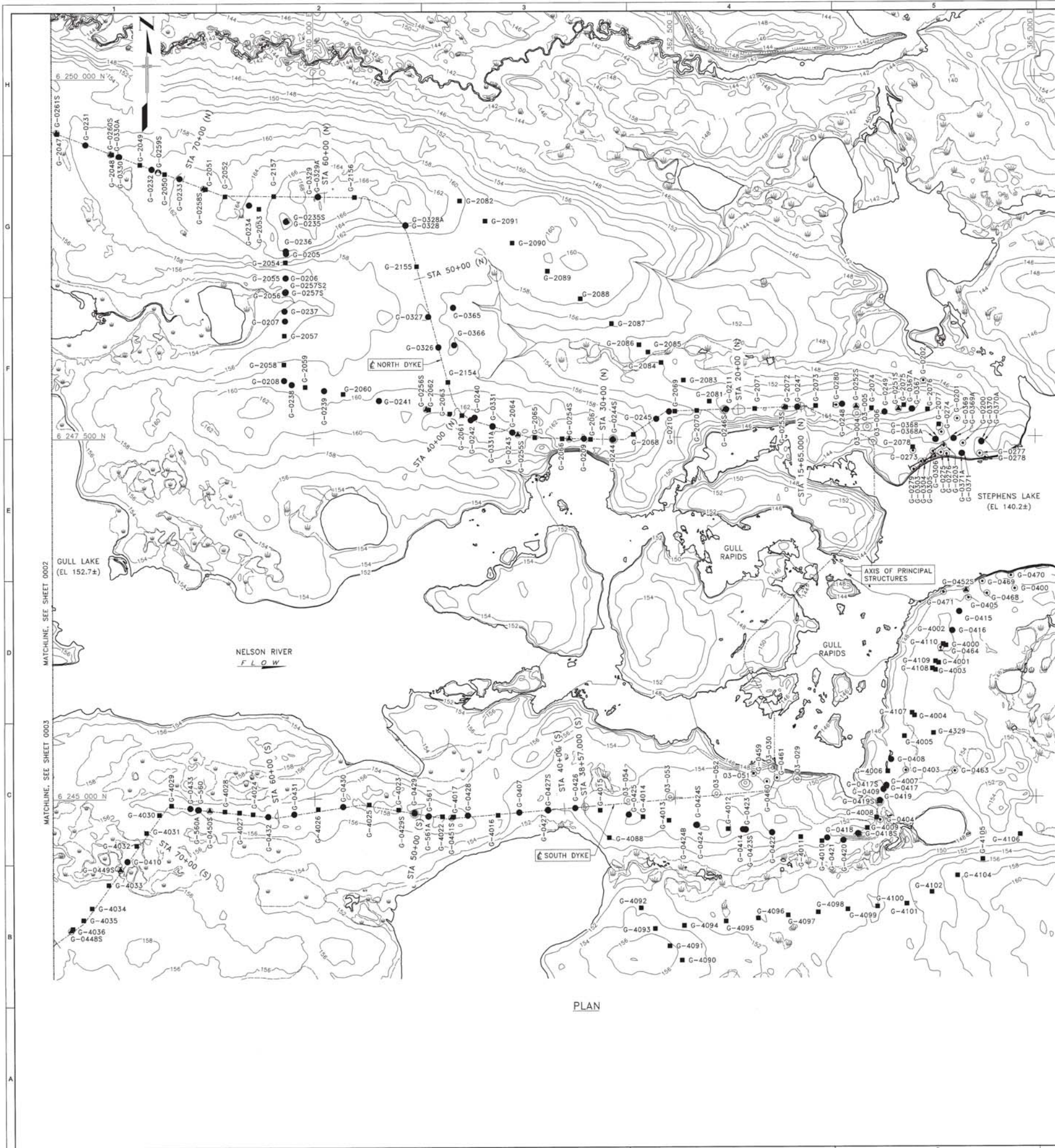
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AREA COORD: P. PANTEL
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DISCIP. ENGR: R. HALIM
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PRJ. ENGR: A. TRUDEL
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PRJ. MGR: W. GENOZIE
DATE: 2013

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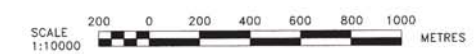
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- LEGEND:**
- GROUND SURFACE CONTOUR (SEE NOTE 7)
 - SHORELINE (SEE NOTE 8)
 - SWAMP
 - TOP OF RIDGE
 - STREAM
 - DIAMOND DRILL HOLE (VERTICAL, INCLINED)
 - AUGER/DIAMOND DRILL HOLE
 - SONIC/DIAMOND DRILL HOLE
 - SONIC DRILL HOLE
 - AUGER HOLE
 - TEST PIT
 - G-0211 EXPLORATION HOLE OR TEST PIT NUMBER
 - STA 50+00 (N) STATIONING ALONG CENTERLINE OF NORTH BANK EARTH STRUCTURES (SEE NOTE 10)
 - STA 50+00 (S) STATIONING ALONG CENTERLINE OF SOUTH BANK EARTH STRUCTURES (SEE NOTE 10)
 - REFERENCE POINT (SEE NOTE 11)
 - COORDINATE GRID MARKER (LOCATED AT 2500 METRE INTERVALS)

- NOTES:**
1. TOPOGRAPHY IS BASED ON MAPPING RECEIVED FROM MANITOBA HYDRO MARCH 2004.
 2. MAPPING WAS PRODUCED USING PHOTOGRAMMETRIC METHODS BASED ON 1:20 000 SCALE PHOTOGRAPHY DATED OCTOBER 1986.
 3. COORDINATE GRID SHOWN IS BASED ON UNIVERSAL TRANSVERSE MERCATOR SYSTEM, ZONE 15, NORTH AMERICAN DATUM 1983.
 4. COORDINATES, STATIONING AND ELEVATIONS ARE IN METRES.
 5. ELEVATIONS ARE BASED ON CGVD 1928.
 6. EXPLORATORY HOLES AND TEST PITS HAVE BEEN REPOSITIONED, USING A COMMON TOPOGRAPHIC FEATURE AS AN INSERTION POINT, ON TO THE NORTH AMERICAN DATUM 1983 COORDINATE GRID FROM THEIR ORIGINALLY PLOTTED LOCATION ON THE NORTH AMERICAN DATUM 1927 COORDINATE GRID. AS A RESULT, THE HOLES AND TEST PITS MAY HAVE SLIGHTLY DIFFERENT COORDINATES THAN THE FIELD SURVEYED COORDINATES.
 7. CONTOUR INTERVAL IS TWO METRES.
 8. WATER SURFACE ELEVATION AND LOCATIONS OF SHORELINES ARE APPROXIMATE AND RELATE TO THE DATE OF PHOTOGRAPHY.
 9. EXPLORATIONS IN RIVER AND LAKE NOT SHOWN.
 10. STATIONING IS BASED ON DISTANCE ALONG THE NORTH AND SOUTH BANK EARTH STRUCTURES' AXES AND CENTERLINES FOR AXIS GR-3 ALTERNATIVE ARRANGEMENT WITH FULL SUPPLY LEVEL AT EL 159.0. FOR THE NORTH BANK STATION 0+00 IS LOCATED AT COORDINATES 6 246 876.230 N AND 364 450.762 E. FOR THE SOUTH BANK STATION 0+00 IS LOCATED AT COORDINATES 6 246 476.050 N AND 364 543.280 E.
 11. THE REFERENCE POINTS ARE LOCATED AT THE STATIONS WHERE THE NORTH AND SOUTH DYKE CENTERLINES FOR AXIS GR-4 INTERSECT WITH THE NORTH AND SOUTH DYKE CENTERLINES FOR AXIS GR-3 ALTERNATIVE ARRANGEMENT. FOR THE NORTH DYKE IT IS STA 15+65.000 (N) AND FOR THE SOUTH DYKE IT IS STA 38+57.000 (S).
 12. THE LAST STATION SHOWN FOR THE NORTH AND SOUTH DYKES IS BASED ON THE POINT WHERE THE FREEBOARD DYKE CREST ELEVATION INTERSECTS WITH THE GROUND SURFACE INTERPRETED FROM TOPOGRAPHIC MAPPING AND THEREFORE IS APPROXIMATE.
 13. TOPOGRAPHY HAS NOT BEEN ADJUSTED TO CONFORM TO DRILL HOLE OR TEST PIT INFORMATION.
 14. FOR NORTH AND SOUTH DYKE GEOLOGICAL SECTIONS SEE DRAWING 1-00195-DE-06200-0059 AND DRAWING 1-00195-DE-06200-0060 RESPECTIVELY.

CONTINUED ON SHEET 0002



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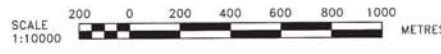
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EXPLORATIONS PLANS		
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NOTE:
FOR LEGEND AND NOTES SEE SHEET 0001.



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