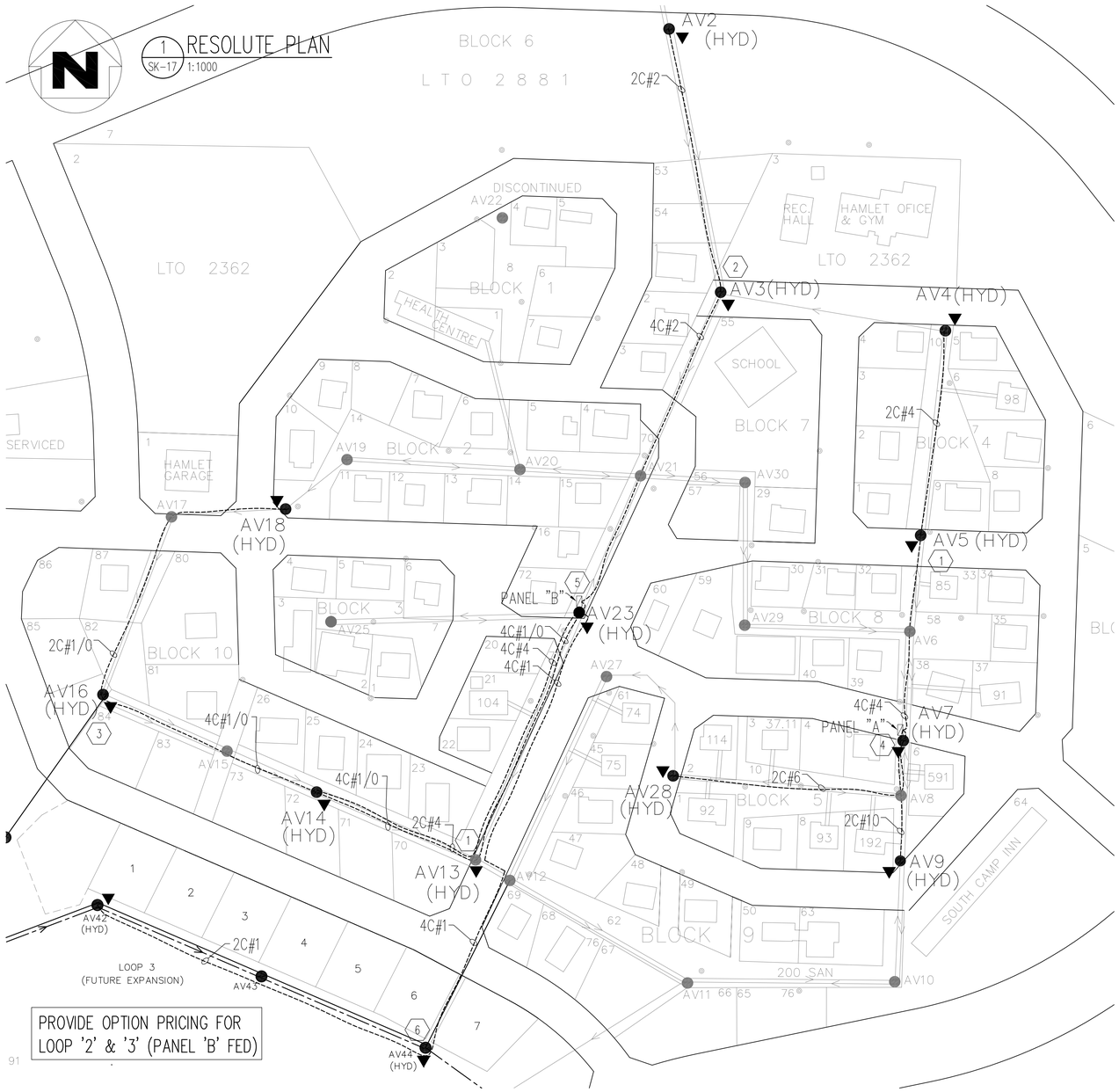
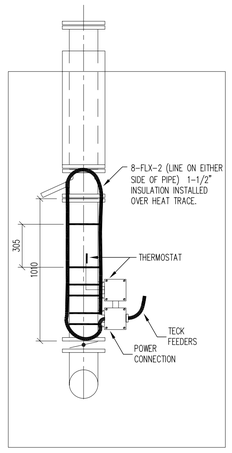
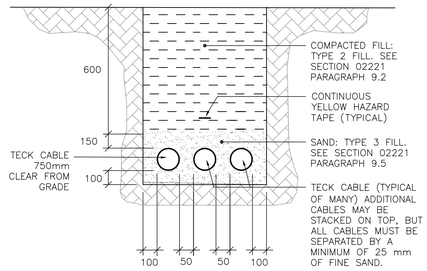


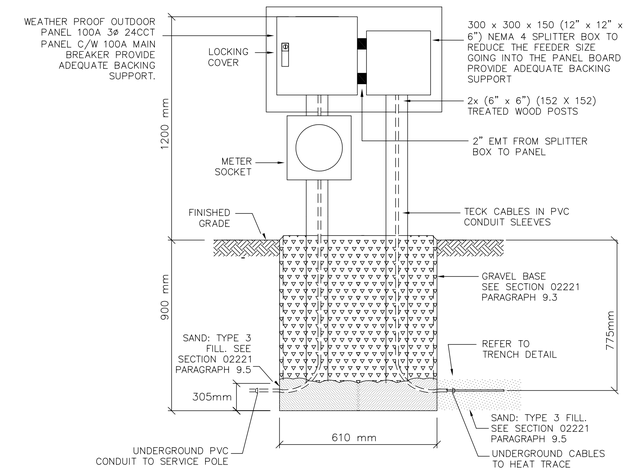
1 SK-17 RESOLUTE PLAN 1:1000



2 SK-17 HYDRANT HEAT TRACE DETAIL 1:20



3 SK-17 TRENCH DETAIL N.T.S.



4 SK-17 SERVICE PEDESTAL DETAIL N.T.S.

PANEL SCHEDULE

PANEL 'A' — LOCATION: POLE MOUNTED (AV7) | VOLTAGE: 120/208 | PHASE: 3 | WIRE: 4 | BUS: 100 | MAIN BKR.: 100 | INT. CAP. (SYM RMS): 10KA | CIRCUITS: 24 | MOUNTING: SURFACE | FEEDER: 4#3-35C

NOTES: * PROVIDE GFI BREAKER WITH 30mA SETTING FOR ALL HEAT TRACE CIRCUITS

LOADS L1	LOADS L2	LOADS L3	DESCRIPTION	POLE	AMP	CCT. NO.	Ø	CCT. NO.	AMP	POLE	DESCRIPTION	LOADS L1	LOADS L2	LOADS L3
0.96			AV4 HEAT TRACE	2*		1		2	15	1	SPARE	–		
	0.96		AV4 HEAT TRACE		20	3		4	15	1	SPARE		–	
		0.96	AV5 HEAT TRACE	2*		5		6	15	1	SPARE			–
0.96			AV5 HEAT TRACE		20	7		8						
	0.96		AV7 HEAT TRACE	2*		9		10						
		0.96	AV7 HEAT TRACE		20	11		12						
0.96			AV9 HEAT TRACE	2*		13		14						
	0.96		AV9 HEAT TRACE		20	15		16						
		0.96	AV28 HEAT TRACE	2*		17		18						
0.96			AV28 HEAT TRACE		20	19		20						
	–		SPARE	2*		21		22						
		–	SPARE		20	23		24						
3.84	2.88	2.88										0.00	0.00	0.00

TOTAL PEAK LOAD 9600 W AT 208 V., IMPLIES 26.6 A. DEMAND FACTOR OF 0.8 APPLIED RESULTS IN A MIN. SERVICE AMPACITY OF 33.3 A.

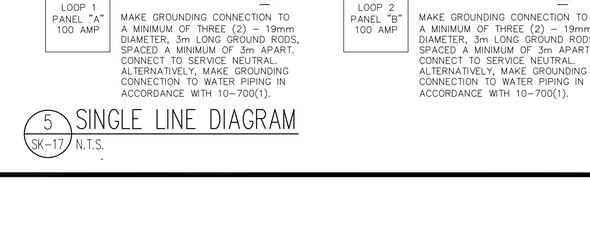
PANEL SCHEDULE

PANEL 'B' — LOCATION: POLE MOUNTED (AV7) | VOLTAGE: 120/208 | PHASE: 3 | WIRE: 4 | BUS: 100 | MAIN BKR.: 100 | INT. CAP. (SYM RMS): 10KA | CIRCUITS: 24 | MOUNTING: SURFACE | FEEDER: 4#3-35C

NOTES: * PROVIDE GFI BREAKER WITH 30mA SETTING FOR ALL HEAT TRACE CIRCUITS

LOADS L1	LOADS L2	LOADS L3	DESCRIPTION	POLE	AMP	CCT. NO.	Ø	CCT. NO.	AMP	POLE	DESCRIPTION	LOADS L1	LOADS L2	LOADS L3
			AV2 HEAT TRACE	2*		1		2		2*	AV18 HEAT TRACE	0.96		
	0.96		AV2 HEAT TRACE		20	3		4	20		AV18 HEAT TRACE		0.96	
		0.96	AV3 HEAT TRACE	2*		5		6		2*	SPARE			–
			AV3 HEAT TRACE		20	7		8	20		SPARE	–		
0.96			AV23 HEAT TRACE	2*		9		10	15	1	SPARE		–	
	0.96		AV23 HEAT TRACE		20	11		12	15	1	SPARE			–
			AV13 HEAT TRACE	2*		13		14	15	1	SPARE	–		
0.96			AV13 HEAT TRACE		20	15		16		2*	AV44 HEAT TRACE		0.96	
	0.96		AV14 HEAT TRACE	2*		17		18	20		AV44 HEAT TRACE			0.96
			AV14 HEAT TRACE		20	19		20		2*	AV42 HEAT TRACE	0.96		
0.96			AV16 HEAT TRACE	2*		21		22	20		AV42 HEAT TRACE		0.96	
	0.96		AV16 HEAT TRACE		20	23		24						
3.84	3.84	3.84										1.92	1.92	0.96

TOTAL PEAK LOAD 17,280 W AT 208 V., IMPLIES 348.0 A. DEMAND FACTOR OF 0.8 APPLIED RESULTS IN A MIN. SERVICE AMPACITY OF 60.0 A.



5 SK-17 SINGLE LINE DIAGRAM N.T.S.

A. D. Williams Engineering Inc.
CONSULTING ENGINEERS
calgary (403) 263-2393 (877) 605-1616 (403) 262-9075 fax
yellowknife (867) 873-2395 (867) 873-2547 fax
edmonton (780) 424-2393 (800) 263-2393 (780) 425-1520 fax
www.adwilliams.com postmaster@adwilliams.com
MULTI-DISCIPLINED CONSULTING ENGINEERING SERVICES
ADWE JOB NO.: I7731.10

CLIENT

Nunavut

NOTES

KEY NOTES:

1. TRANSITION BOX FROM 4C#4 TO 2C#4
2. TRANSITION BOX FROM 4C#2 TO 2C#2
3. TRANSITION BOX FROM 4C#1/0 TO 2C#1/0
4. PROVIDE 63mm PVC CONDUIT FROM PANEL 'A' TO NEAREST SERVICE POLE.
5. PROVIDE 63mm PVC CONDUIT FROM PANEL 'B' TO NEAREST SERVICE POLE.
6. TRANSITION BOX FROM 4C#1 TO 2C#1

PLAN REVIEW INFO

1. NAME AND MAILING ADDRESS OF OWNER:

2. LOCATION OF BUILDING, EITHER THE STREET ADDRESS OR THE LEGAL ADDRESS:

3. NAME AND MAILING ADDRESS THE PLAN REVIEW FEES ARE TO BE INVOICED TO:

CONTRACTOR TO ENSURE ALL OF ABOVE IS FILLED OUT IN FULL BEFORE SUBMITTAL TO GN C&GS SAFETY FOR PLAN REVIEW

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 05/06/01

SEAL

PERMIT

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF THE NORTHWEST TERRITORIES
PERMIT NUMBER
P 053
A.D. WILLIAMS ENGINEERING Inc.

A: DETAIL NO.
B: DRAWING NO. – WHERE DETAILED

NO	REVISION	DATE	APP'D
B	ISSUED FOR 100 REVIEW (ELEC)	05/06/01	
A	90 % REVIEW	05/04/01	

JOB TITLE

RESOLUTE BAY UTILIDOR ASSESSMENT

RESOLUTE BAY, NU

DRAWING TITLE

ELECTRICAL DISTRIBUTION AND HEAT TRACE INSTALLATION

DESIGNED BY: MTP/RSF	SCALE: AS SHOWN
DRAWN BY: MTP	DATE: APRIL 2005
CHECKED BY: RSF	PROJECT NUMBER: I7731.10

DRAWING NO. SK–17 REV. B