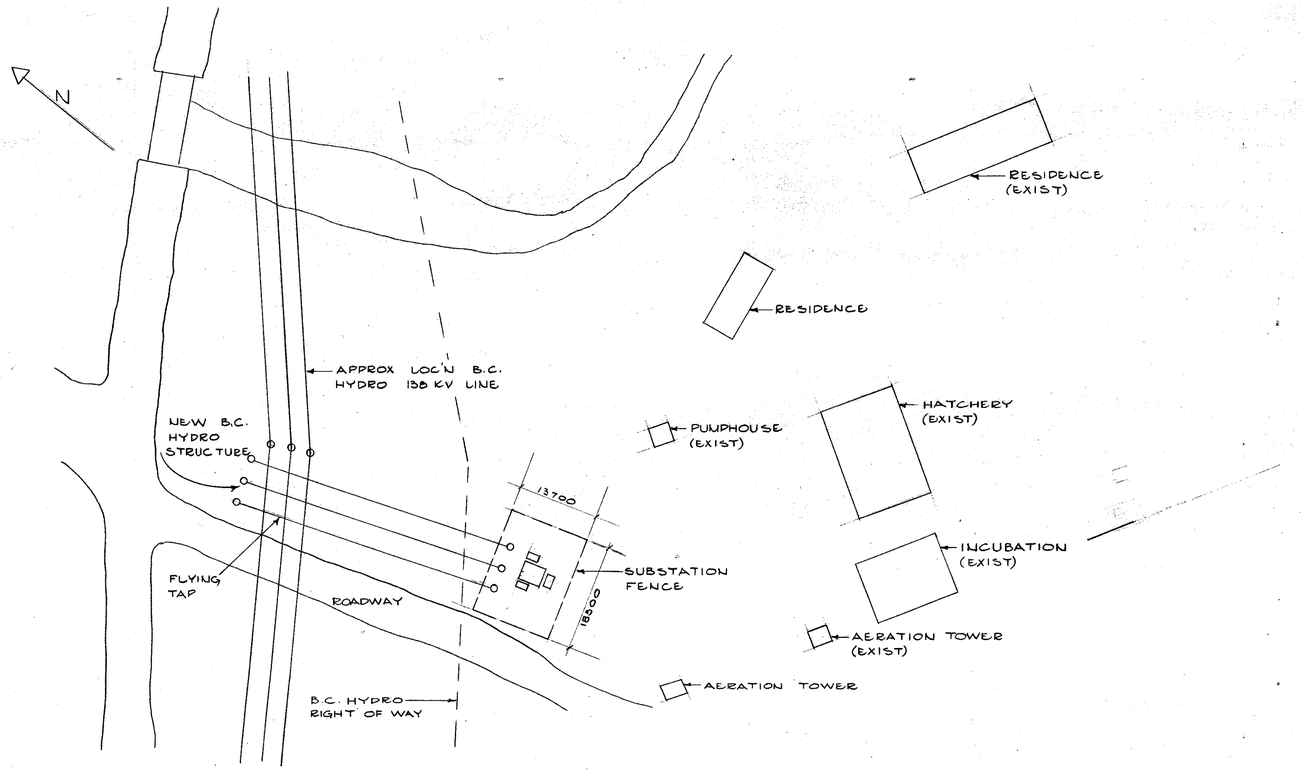
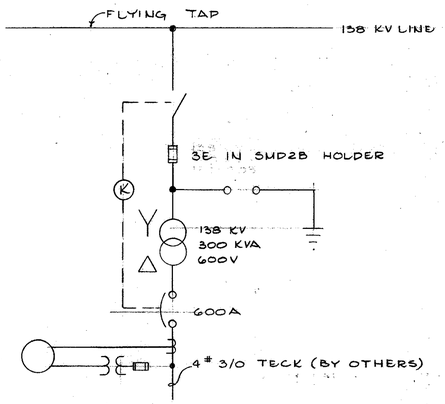
BILL OF MATERIAL

ITEM	QTY	DESCRIPTION
1	LOT	SUB-ASSEMBLED ALUMINUM LATTICE COLUMNS AND GIRDER.
2	2	GALVANIZED WELDED STEEL ANGLE BASES C/W GUSSETS.
3	8	ANCHOR BOLT C/W NUT
4	LOT	MOUNTING BOLTS FOR EQUIPMENT AND STRUCTURE
5	3	½" DIA. "U" BOLT C/W NUTS AND LOCKWASHERS
6	3	SETS OF STRAIN EXTENSION 30" LONG
8	3	TOWER EYES
9	1	138 KV 600 AMP, 3 POLE CENTER BREAK GROUP OPERATED SWITCH, C/W MULTI-REV. GROUND DEVICE AND INTERLOCK ADAPTOR, AND INSULATORS.
10	3	SWITCH TERMINALS FOR 4 HOLE NEMA TO 266 MCM ACSR.
11	3	SWITCH TERMINALS FOR 4 HOLE NEMA TO 250 MCM STR. CU.
12	1	INTERLOCK C/W DUST COVER
13	3	120 KV INTERMEDIATE CLASS LIGHTNING ARRESTORS, COB #GP-120
14	3	138 KV FUSE MOUNTS AND HOLDERS. S&C SMD 2B
15	3	138 KV 3 AMP E SPEED FUSE REFILLS
16	3	FUSE TERMINAL FOR 2 HOLE NEMA TO 250 MCM STR. CU.
17	1	FUSE CAUTION SIGN
18	AS REQ'D	250 MCM STR. COPPER
19	"	2/0 STRANDED COPPER
20	"	"J" GROUND CLAMP FOR 2/0 STRANDED COPPER (EVERY 4 FT. APPROX.)
21	"	SINGLE GROOVE GROUND CONNECTOR FOR 2/0 STR. COPPER
22	"	SOLDERLESS GROUND CONNECTOR FOR 2/0 STR. CU
23	18	GREY BALL SOCKET SUSPENSION INSULATOR
24	3	STRAIN CLAMPS
25	3	INCOMING LINES - 266 MCM ACSR - BY B.C. HYDRO
26	1	TRANSFORMER, 3 PHASE, 138KV/600V
27	3	RIGID TYPE TRANSFORMER STUD CONNECTORS FOR 1½"-12 TO UNIVERSAL
28	3	"U" BOLT FOR 1½" IPS LIGHTNING MAST GROUND
29	2	1½" DIA. x 15'-0" LONG STRUCTURAL IPS USED AS LIGHTNING MAST
30	2	DOUBLE GROOVE GROUND CONNECTOR FOR 2/0 CU.
31	AS REQ'D	GROUND ROD
32	"	THERMIT WELD
33	"	GROUND CONDUCTOR
34	"	FENCE
35	"	GRADIENT CONTROL MAT
36	"	SECONDARY BREAKER & METERING CABINET



SITE LAYOUT
SCALE 1:500



SINGLE LINE DIAGRAM

EMCO ENGINEERING LTD.

DEPARTMENT OF FISHERIES AND OCEANS
SALMONID ENHANCEMENT PROGRAM

CONUMA RIVER HATCHERY
CONTRACT NO. 3
138 K.V. SUBSTATION
SITE LAYOUT, SINGLE LINE DIAGRAM,
BILL OF MATERIALS

DWG. NO.	REFERENCE DRAWINGS	NOTES	NO.	DATE	REVISIONS

DESIGNED R.R.
DRAWN E.R.
CHECKED R.R.
RECOMMENDED
APPROVED
APPROVED

SCALE AS SHOWN
DATE OCT. 1979
DRAWING NUMBER 32-18-90
REVISION

BCIL 6798A1 - D.F.O.