FINAL EFFLUENT CHAMBER MUST BE ISOLATED IN ACCORDANCE WITH WSBC 9.18

SEE KOERS DRAWINGS FOR MORE INFORMATION

EXPOSE AND BLIND AND/OR DISCONNECT

EXPOSE AND BLIND AND/OR DISCONNECT

EXPOSE AND BLIND AND/OR DISCONNECT

NOTE:
ALL CHANNELS AND SLUDGE HOLDING TANK (FUTURE GRIT TANK) TO BE COVERED WITH CHECKER PLATES - SEE (A/M7) PRIMARY SEDIMENTATION TANKS ARE NOT COVERED

RAMP

TRUCK LOADING BAY PASSAGEWAY

HANDRAILING SEE TYP. DETAILS SHEET M5

SEE TYPICAL DETAIL (B/M4)

FUTURE GRIT WASHER

ME731

ME731.2

AIR EXHAUST FAN EF 120 SEE (A/M9)

100D

100SC

20NPW

FUTURE BAR SCREENS

FUTURE CONVEYOR

BACK WATER VALVES (TYP)

S108

S104

ME1120

S101

100D

ME1101

SEE (1/M8)

75PW

HAND RAKED BAR SCREEN SEE (H/M8)

OVERFLOW CHANNEL (FUTURE BAR SCREEN CHANNEL)

BOX DIFFUSER TYP. SEE (C/M8)

50PCL

300W x 450H DOOR GRILLE

103

SHOWER

50 D

CLEANOUT AT GROUND LEVEL

SEE (A/M3)

SCREENED SEWAGE CHANNEL COVERED BY CHECKER PLATES

S201

SLUDGE HOLDING TANK, (FUTURE GRIT TANK), COVERED BY CHECKER PLATES

750

75SN

75AA

100CS

US201

40D

750D

320

50FD

50D

MOTOR CONTROL CENTRE

UP

DOWN

EF122 SEE (C/M9)

EF121 SEE (C/M9)

102

AIR EXHAUST FAN 260 SEE (B/M9)

BILGE HATCH c/w LOCK HASPS

DISTRIBUTION CHANNEL

INSPECTION HATCHES COVERED BY CHECKER PLATES SEE (B/M7)

S203

S206

S205

100CS

ME1221

S204

US203

S203

100CS

S202

ACCESS HATCH COVERED BY CHECKER PLATES SEE (A/M7)

7/M3

300 x 300 MOTORIZED DAMPER (D123) c/w CEILING GRILLE & FABRICATED INSULATED DAMPER BOX

450 x 200 DUCT WITH 25mm THK. INSULATION INSIDE DUCT

101

FOR ARCHITECTURAL DETAILS OF BUILDING SEE SHEET 7 & SPECIFICATIONS

ADMINISTRATION BUILDING — FOR FURTHER DETAILS OF EQUIPMENT INSIDE THIS BUILDING SEE DRAWING S2 AND SPECIFICATIONS

SEE TYPICAL HANDRAIL DETAILS SHEET M5

BLIND FLANGE AND SLEEVE FOR FUTURE EXTENSION OF SCUM TROUGH

ME1230.10

TANK NO. 2

PRIMARY

SEDIMENTATION

TANKS

TANK NO. 1

LOCATE HANDWHEEL ABOVE TOP RAIL OF HANDRAILING

300 ϕ

EFFLUENT WEIRS SEE (G/M6)

LAUNDER TROUGH SUPPORT TO BE SIZED TO SUIT SLIDE GATE FRAME WITH BOLT LOCATIONS LINING UP ON EACH LINING (TYP. FOR 2) SEE (H/M7)

S205

SEE (B/M7)

300PE

600

600

500 (TYP)

S204

300 (TYP)

50NPW

100 SC

CLEANOUT

SCUM PUMP MH. FOR DETAIL SEE SHEET M4

250SC

±1750

±600

100D OVERFLOW TO DITCH (SEE G8)

REMOVE TEMPORARY PLUG & CONNECT TO EXISTING PIPING

EXISTING CONC. SURROUND AROUND DROP PIPE

EXISTING ELECTRICAL KIOSK

EXISTING SEPTIC TA

EXISTING EFFLUENT PUMPING STATION

250 PE

500 TYP.

30m BUFFER ZONE BOUNDARY

(5/M3)

(6/M3)

NOTES:
ALL PLUMBING DRAIN LINES AND WATER SUPPLY LINES TO BE INSTALLED IN ACCORDANCE WITH THE BC PLUMBING CODE.
ALL WATER PIPES ABOVE THE CEILING SHALL BE INSULATED.

PLAN

REVISIONS	ISSUE	DATE	DR'N	CH'D	APP'D	DESCRIPTION	ISSUE	DATE	DR'N	CH'D	APP'D	DESCRIPTION

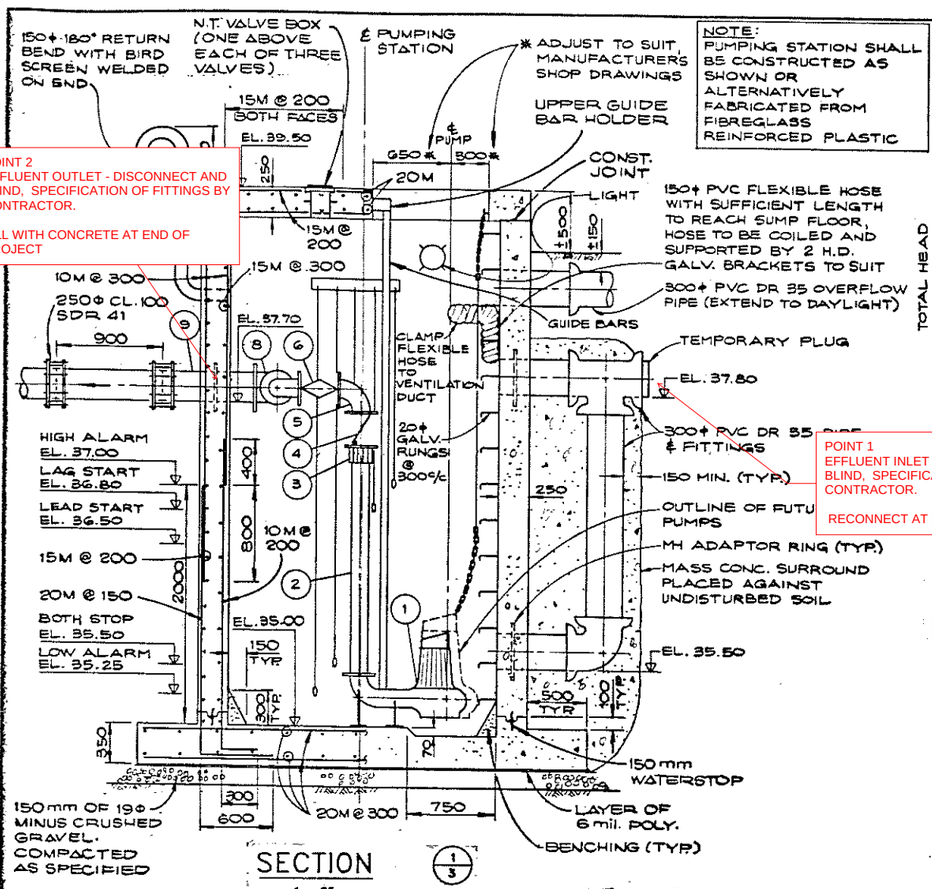
DESIGNED J.W.C.B
DRAWN J.S. / K.S.
CHECKED JWB W

DAYTON & KNIGHT LTD.
CONSULTING ENGINEERS
P. Walker 22 July 88

REGIONAL DISTRICT OF NANAIMO
CONSTRUCTION AND COMPLETION
OF THE NANOOSE WATER POLLUTION CONTROL CENTRE - STAGE I
PRIMARY SEDIMENTATION TANKS - PLAN

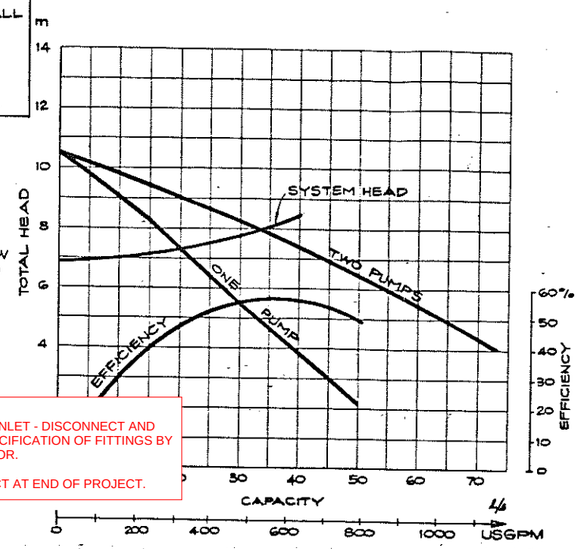
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DRAWING No. 122.64.4
SHEET 12 OF 24 ISSUE A
THIS DRAWING REDUCED TO HALF SIZE

M1

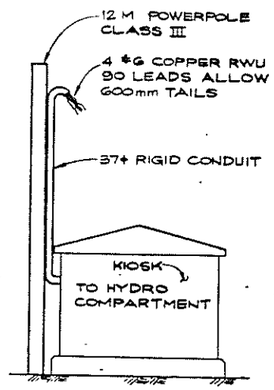


SECTION
1 : 25

NOTE:
PUMPING STATION SHALL BE CONSTRUCTED AS SHOWN OR ALTERNATIVELY FABRICATED FROM FIBREGLASS REINFORCED PLASTIC

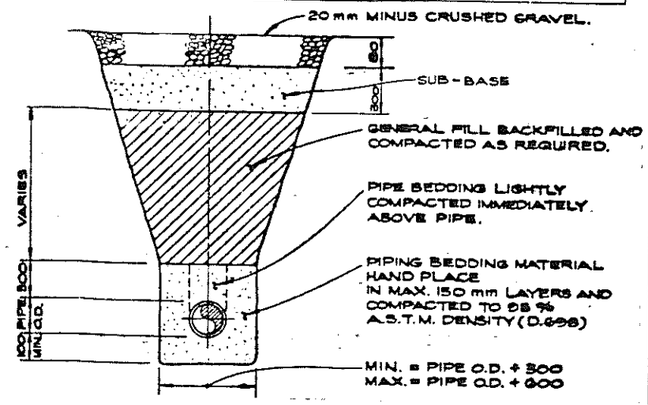


PUMP CURVES FOR FLYGT MODEL C3102 LT, IMPELLER 442

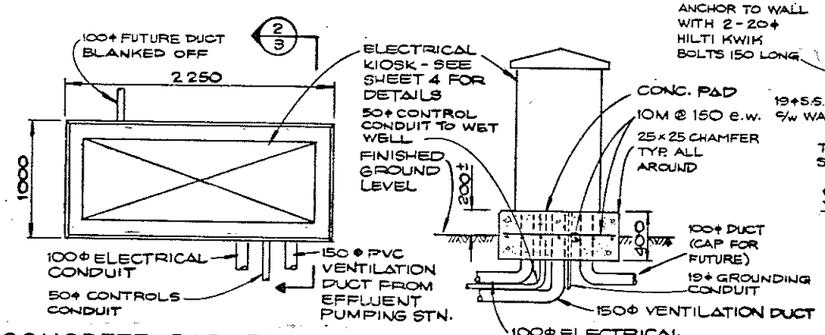


SERVICE POLE
(INSTALLED BY CONTRACTOR)
NTS

NOTE:
TRENCH DETAIL OVER SEWER SIMILAR EXCEPT CRUSHED GRAVEL OR SUB-BASE NOT REQUIRED.

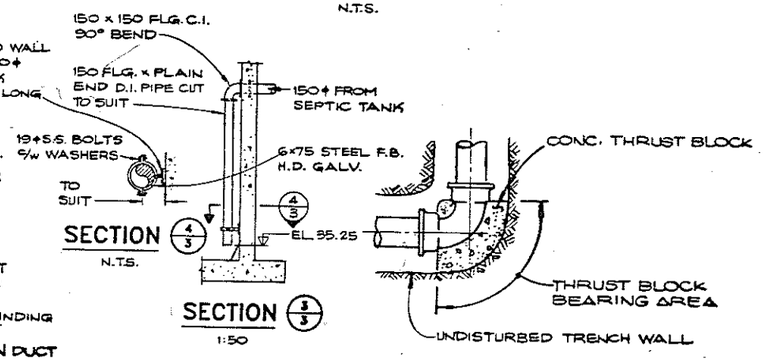


TRENCH CROSS SECTION FOR FORCEMAIN
N.T.S.



CONCRETE PAD FOR KIOSK
1 : 25

SECTION
1 : 25



SECTION
N.T.S.

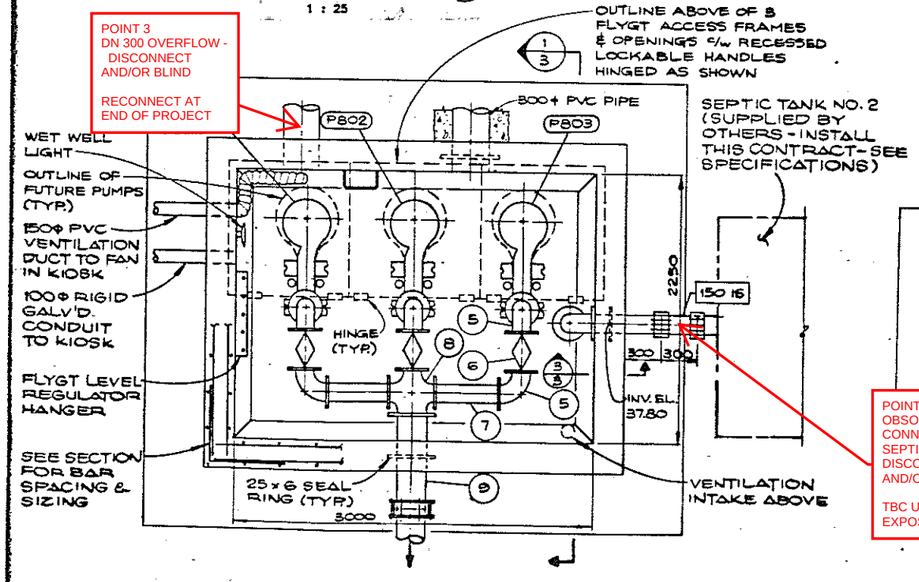
SECTION
1:50

BEARING AREA (m^2) OF CONCRETE AGAINST UNDISTURBED TRENCH WALL REQUIRED FOR 690 KPa (100 psi) PRESSURE

AREA OF THRUST BLOCK BEARING AREA (m^2)		
PIPE SIZE (mm)	90 ° BEND	45 ° BEND
250 φ	1	0.56

NOTES
1. AREA CALCULATED ASSUMING 95 KPa (2000 psf) SAFE BEARING LOAD. AREAS INCREASED OR DECREASED PROPORTIONALLY IN UNSTABLE SOIL OR HARDPAN OR ROCK RESPECTIVELY.

THRUST BLOCK DETAILS
NTS



EFFLUENT PUMPING STATION PLAN
1 : 25

BILL OF MATERIALS

ITEM No.	DESCRIPTION	No. REQ'D.
1	SUBMERSIBLE FLYGT PUMP C/W 150φ FLANGED ELBOW AND QUICK RELEASE COUPLING.	3
2	150φ FLANGED x PLAIN END D.I. PIPE (PIPE LENGTH TO SUIT).	3
3	150φ FLANGED ADAPTOR FOR D.I. PIPE.	3
4	150φ FLANGED CHECK VALVE.	3
5	150φ FLANGED C.I. BEND.	5
6	150φ FLANGED PLUG VALVE C/W 50 mm SQ. OPERATING NUT AND VALVE OPERATOR.	3
7	150φ FLANGED D.I.PIPE (500 mm LONG).	2
8	150φ x 150φ x 150φ x 250φ FLANGED C.I. CROSS.	1
9	250φ FLANGE x PLAIN END STEEL PIPE (750 mm LONG)	1

REINFORCEMENT COVER

CONDITION		SPECIFIED COVER (mm)
A	CONCRETE AGAINST GROUND	75
B	CONCRETE EXPOSED TO EARTH, LIQUIDS OR WEATHER	
	I) 20M BARS OR LARGER	50
	II) 10M AND 15M BARS	40
C	CONCRETE SLABS OR WALLS NOT EXPOSED TO EARTH, LIQUIDS OR WEATHER	20

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA JOHN W. C. BOYLE

ISSUE	DATE	DR'N	CH'D	APP'D	DESCRIPTION

ALL ISSUE REVISIONS

DESIGNED J. B. / K. G.
DRAWN J. S. / V. B.
CHECKED J. W. B. B. W.

DAYTON & KNIGHT LTD.
CONSULTING ENGINEERS
B. Webster 16 May 88

REGIONAL DISTRICT OF NANAIMO
NANOOSE WATER POLLUTION CONTROL CENTRE-STAGE I
EFFLUENT PUMPING STATION AND FORCEMAIN
EFFLUENT PUMPING STATION AND PIPELINE DETAILS

SCALE: AS SHOWN
DRAWING No. 122-64-6
SHEET 3 OF 4 ISSUE A
THIS DRAWING REDUCED TO HALF SIZE