

PURCHASE ORDER

AGES INVOICES, ETC

Kopper International Canada Ltd.
1535 Chomedey,
Chomedey, Montreal, Quebec

N1001-9-3729

RENDER SEPARATE INVOICE FOR
EACH ORDER AND SEND 4
COPIES INCLUDING ORIGINAL
AFTER SHIPMENT

PLEASE FURNISH THE FOLLOWING MATERIALS AS SPECIFIED HEREIN AND CHARGE TO THE GOVERNMENT OF THE NORTHWEST TERRITORIES.

SHIP TO

INVOICE TO

GOVERNMENT OF THE NORTHWEST TERRITORIES
D.P.W. GOVT. OF N.W.T.
IGLOOLIK, N.W.T.

GOVERNMENT OF THE NORTHWEST TERRITORIES
SUPPLY SERVICES

BOX 70

YELLOWKNIFE, N.W.T.

SHIP VIA

SEE BELOW

DATE

26 JUNE 1979

F.O.B.

LA PRARIE

TENDER

DELIVERY REQUIRED BY

ON OR BEFORE 30/

ITEM NO.

QUANTITY

DESCRIPTION

UNIT PRICE

AMOUNT

1

6 lengths

Corrugated metal culverts, galvanized
600 mm dia, 1.6 mm thickness, in 7 meter
lengths

20.98/
meter

881.16

2

6

Couplers suitable for above

6.60/ea

39.60

F.S.T. EXEMPT

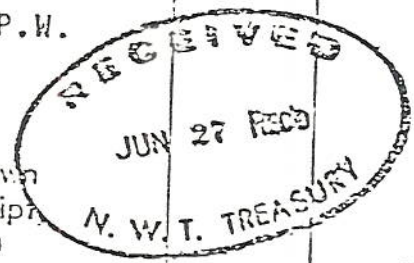
920.76

DO NOT DUPLICATE-CONFIRMING ORDER,
CONFIRMING TELECON MR. MARK PAYETTE AND
A. KASHYAP OF 26 JUNE 1979.

NOTE: SHIP VIA: YOUR MEANS TO EASTERN
CANADA SHIPPING, LA PRARIE, QUEBEC
FOR FURTHERANCE TO GOVT OF N.W.T. D.P.W.
IGLOOLIK, N.W.T.
PROJECT 78-118

Purchase Order Number N1001-9-3729 must be shown
clearly on each invoice, packing slip, express receipt,
bill of lading and on each package, crate or carton
as well as on all relevant correspondence.

Attach copy of Bill of Lading or proof of delivery
to Common Carrier to invoice for prompt payment.



KASHYAP/1e

REFER ENQUIRIES TO BUYER

DDING

2-1609-203226-001-855

AMOUNT

920.76

D.P.W. GOVT. OF N.W.T.

IGLOOLIK, N.W.T.

AUTHORIZED BY SUPPLY SERVICES

THIS ORDER IS SUBJECT TO THE TERMS AND CONDITIONS ON BOTH SIDES HEREOF

PURCHASE ORDER

AGES, INVOICES, ETC

N1001-9-3695

Wallace & Tiernan Div.,
25 Warden Ave.,
Scarborough, Ontario

RENDER SEPARATE INVOICE FOR
EACH ORDER AND SEND 4
COPIES INCLUDING ORIGINAL
AFTER SHIPMENT.

PLEASE FURNISH THE FOLLOWING MATERIALS AS SPECIFIED HEREIN AND CHARGE TO THE GOVERNMENT OF THE NORTHWEST TERRITORIES.

SHIP TO

INVOICE TO

GOVERNMENT OF THE NORTHWEST TERRITORIES

GOVERNMENT OF THE NORTHWEST TERRITORIES

D.P.W., G.N.W.T.,

SUPPLY SERVICES

IGLOOLIK, N.W.T.

BOX 70

YELLOWKNIFE, N.W.T.

SHIP VIA WINDAIR TO NANASIVIK, FOR FURTHERANCE TO IGLOOLIK, BY 1ST AIR

DATE		F.O.B.		TENDER		DELIVERY REQUIRED BY	
18 JULY 1979		MONTREAL				15 AUGUST 1979	
ITEM NO.	QUANTITY	DESCRIPTION				UNIT PRICE	AMOUNT
1	1	Wallace & Tiernan series A-745 hypochlorinator unit c/w spare pump as per attached specification (1/20 HP, 110 Volts Mixer is acceptable)					2245.00
		F.S.T. EXEMPT					
		PER OUR INVITATION TO TENDER N1001-9-3695-3696 AND YOUR RESPONSE OF JULY 5, 1979.					
		Purchase Order Number N1001-9-3695 must be shown clearly on each invoice, packing slip, express receipt, bill of lading and on each package, crate or carton as well as on all relevant correspondence.					
		Attach copy of Bill of Lading or proof of delivery to Common Carrier to invoice for prompt payment.					
				REFER ENQUIRIES TO BUYER		KASEYAP/1e	

DING

	AMOUNT
2-1609-203226-001-855	2245.00
2-1609-203226-001-310	500.00
D.P.W., G.N.W.T.	
IGLOOLIK, N.W.T.	

AUTHORIZED BY SUPPLY SERVICES

PURCHASE ORDER

W1001-0-3455

Neptune Meters Ltd.
3526 Lake Shore Blvd W.
Toronto, Ontario
M8W 1N7

RENDER SEPARATE INVOICE FOR
EACH ORDER AND SEND 4
COPIES INCLUDING ORIGINAL
AFTER SHIPMENT.

PLEASE FURNISH THE FOLLOWING MATERIALS AS SPECIFIED HEREIN AND CHARGE TO THE GOVERNMENT OF THE NORTHWEST TERRITORIES.

SHIP TO

INVOICE TO

GOVERNMENT OF THE NORTHWEST TERRITORIES

SUPPLY SERVICES
YELLOWKNIFE, N.W.T.

GOVERNMENT OF THE NORTHWEST TERRITORIES

SUPPLY SERVICES

BOX 1320
Yellowknife, N.W.T.

SHIP VIA

DATE

F.O.B.

TENDER

DELIVERY REQUIRED BY

09-06-80

TORONTO, ONTARIO

JUNE 30, 1980

ITEM NO. QUANTITY

DESCRIPTION

UNIT PRICE AMOUNT

1

1

Neptune Trident 8 styles 3-50 mm
Water meter as per attached specifications
Complete with the following:
2 sets of companion flanges; Neptune TCC
switch type totalizing head (head to totalize
in cubic meters and be so geared to give one
pulse for every .1 cubic meter. Hecon
GO-414-489-1 resettable totalizing counter
to be compatible with the TCC head.

\$649.00

F.S.T. Nil

(Operating Voltage - 115 V ac)
(Counts per second - 10)
(Number of Digits - 4)

Six sets of operating and maintenance manuals.

216-858-4211

DO NOT DUPLICATE & CONFIRMING ORDER,
CONFIRMING TELECON FRED GRIFFON AND T. TAYLOR
OF JUNE 13th, 1980.

REFER ENQUIRIES TO BUYER TOM TAYLOR/ses

CODING

AMOUNT

101454 210 241460 970 1130

649.00

RECEIVED BY THE GOVERNMENT OF THE NORTHWEST TERRITORIES

YELLOWKNIFE, N.W.T.

RECEIVED BY THE GOVERNMENT OF THE NORTHWEST TERRITORIES

THIS ORDER IS SUBJECT TO THE TERMS AND CONDITIONS ON BOTH SIDES HEREOF

Schlumberger Industries

Water and Gas Group

Measurement Division

FAX COMMUNICATIONS
COVER SHEET

COMPANY: _____

DATE: DEC. 11, 1991.FAX NUMBER: 1-819-934-8743# PAGES: ONEATTENTION: KEN BAMBERREFERENCE: T-8 STY. 3, 2"MESSAGE: LISTED BELOW, ARE THE AUTHORIZED
SERVICE DEPOTS YOU MAY CALL REGARDING
THE REPAIR OF YOUR METER.ACCU-FLO METER SERVICE (ALBERTA)↳ CALGARY 1-403-243-1425↳ EDMONTON 1-403-452-6047P.D. McLAREN - BURNABY B.C. 1-604-437-0616

REGARDS,

IF YOU HAVE ANY OTHER QUESTIONS, PLEASE
DO NOT HESITATE TO CALL MEGeorge J. Fritz

The following transmission is being conducted utilizing a Canon Fax 520.

If you do NOT receive ALL pages, please notify.

FAX: 416-858-0428

PHONE: 416-858-4211

PURCHASE ORDER

AGES, INVOICES, ETC

IN001-0-3456

Jacuzzi Canada Ltd.
330 Humberline Drive
Rexdale, Ontario M9W 1R5

RENDER SEPARATE INVOICE FOR
EACH ORDER AND SEND
COPIES INCLUDING ORIGINAL
AFTERSHIPMENT.

PLEASE FURNISH THE FOLLOWING MATERIALS AS SPECIFIED HEREIN AND CHARGE TO THE GOVERNMENT OF THE NORTHWEST TERRITORIES.

SHIP TO

INVOICE TO

GOVERNMENT OF THE NORTHWEST TERRITORIES

GOVERNMENT OF THE NORTHWEST TERRITORIES

SUPPLY SERVICES
YELLOWKNIFE, N.W.T.

SUPPLY SERVICES

BOX 1320

Yellowknife, N.W.T.

SHIP VIA

TRUCK

DATE

08-05-80

F.O.B.

YELLOWKNIFE, N.W.T.

TENDER

DELIVERY REQUIRED BY

JUNE 16, 1980

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1	2 each	Jacuzzi submersible pump Model 5S6J4-52, 6" Turbine 4 stage. \$1,678.89 each		\$3,357.78
2	2 each	Cable spring loaded, Check value 3"	\$208.58	417.16
3	2 each	Submersible Cable #10-3T WUZ	47.43	94.86
4	2 each	Lightening Arrester #SLA-1	15.43	30.86
	6 set	Operating Manuals		N/C
All as per your tender quote number 522 dated April 25, 1980.			TOTAL:	3908.10
ADD FREIGHT ALLOWANCES:				259.49
TOTAL F.O.B. YELLOWKNIFE,				4167.59
F.S.T. EXEMPT				

REFER ENQUIRIES TO BUYER T. TAYLOR/ses

CODING

AMOUNT

210-241463-9781180

4167.59

IC WORKS, ENG. DIC. GOVT. OF THE N.W.T.

YELLOWKNIFE, N.W.T.

AUTHORIZED BY SUPPLY SERVICES

THIS ORDER IS SUBJECT TO THE TERMS AND CONDITIONS ON BOTH SIDES HEREOF

IGLOOLIK WATER SUPPLY
SPECIFICATION
SUBMERSIBLE PUMPS

Pumps shall be suitable for continuous operation with the motor sized so as not to be overloaded at any point on the performance curve.

The pumps shall be as manufactured by Jacuzzi Canada Ltd., catalogue No. 5S6J4-S2 or equal and have the following characteristics:

Q =	455 L/Min.	(100 IGPM)
Head	179 KPA	(50 ft. H ₂ O)
T.D.H.	812 KPA	(272 ft. H ₂ O)
H.P.	5	
Volts	230 AC	
Phase	Single	

Each pump shall have the following:

Stainless steel shaft.

Bronze Inlet screen.

Long bronze sleeve bearings.

Bronze Impellers.

Be capable of operating in a horizontal position.

100 ft. of submersible cable (3-10# AWG).

2 - Cable splice kits (1 for spare).

Control box c/w capacitors, starting switch and overload protector.

Provide ~~5~~ sets of operating and maintenance manuals.

6

G.S.

2015/4/80.



3745 ST. JAMES STREET WEST, MONTREAL, QUEBEC H4C 1H4
MAILING ADDRESS: P.O. BOX 880, MONTREAL, QUEBEC H3C 2V9
TEL: (514) 933-6741
TELEX: 055-60819

→ 78-118

EMISSION DE DESSINS — ISSUE OF DRAWINGS

A TO: GOVT. NORTHWEST TERRITORY RE: GOVT. NWT # N-1001-9-3694
YELLOWKNIFE, NORTHWEST TERR. CANREP # C-0543-5-SK011
XIA 2L9 JOHNSON # HI-9136-0

ATTENTION: MR. DAVID BARRY CONTRAT NO: — DATE: 8/31/79
CONTRACT

CI-JOINT LES DESSINS SUIVANTS — ENCLOSED ARE THE FOLLOWING DRAWINGS

NO. DU DESSIN DRAWING NO.	NO. REV.	QUANTITE QUANTITY	NOM DU DESSIN TITLE OF DRAWING	CODE
AP-79138	Ø	2	INTAKE SCREEN (DETAILS)	C

REMARQUES: RETURN ONE (1) COPY BEARING YOUR APPROVAL TO KEEP
ALL PARTIES' FILES UP TO DATE. PRODUCTION NOT HELD PENDING

CODE

SIGNEZ 1 COPIE ET RETOURNEZ

SIGN 1 COPY AND RETURN

- A — APPROUVE
APPROVED
B — APPROUVE AVEC REMARQUES
APPROVED EXCEPT AS NOTED
C — VOIR REMARQUES
SEE COMMENTS

24

PAR: —
VED BY: —

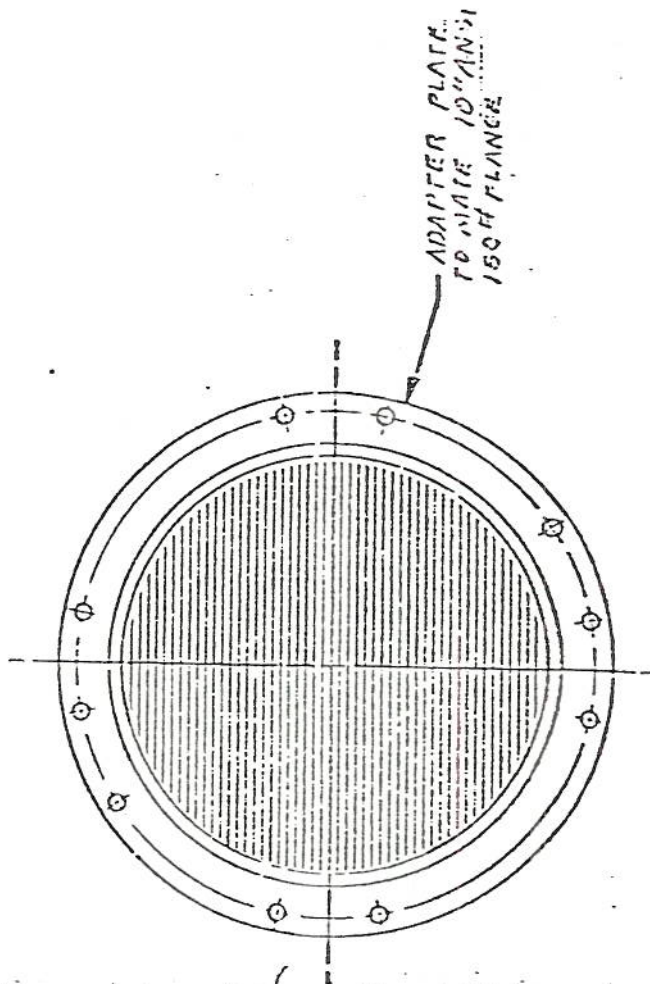
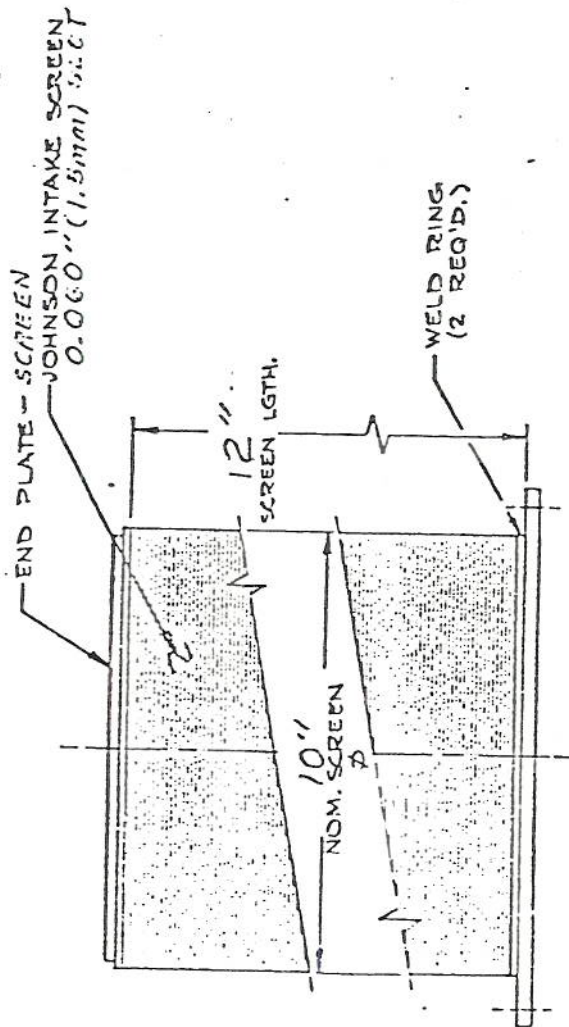
PAR: —
BY: —

ATE: —

DEPT.: —

MICHEL FUGÈRE

CANREP INC / MONTREAL



NOTES:

- 2-11% SCREEN OPEN AREA.
- 3-MATERIAL AISI GRADE 304 STAINLESS STEEL.
- 4-HYDROSTATIC COLLAPSE STRENGTH IN EXCESS OF 20 FT. OF WATER.

DO NOT SCALE THIS DRAWING		TOLERANCES (UNLESS OTHERWISE NOTED)		MILLIMETERS	
LINEAR DIMENSIONS ARE IN INCHES	DIMENSIONS IN () ARE MILLIMETERS	INCHES		MILLIMETERS	
		0-12 INCH	+1/16	0-100 INCH	+1
OTHER UNITS IN () ARE METRIC	THIS DRAWING IS A REPRODUCTION OF THE ORIGINAL DRAWING	12-60 INCH	+1/8	100-250 INCH	+2
		60-120 INCH	+1/4	250-500 INCH	+3
		120-180 INCH	+1/2	500-1000 INCH	+5
		180-240 INCH	+3/4	1000-1500 INCH	+8
		240-300 INCH	+1	1500-2000 INCH	+12
		300-360 INCH	+1 1/4	2000-2500 INCH	+16
		360-420 INCH	+1 1/2	2500-3000 INCH	+20
		420-480 INCH	+1 3/4	3000-3500 INCH	+24
		480-540 INCH	+2	3500-4000 INCH	+28
		540-600 INCH	+2 1/4	4000-4500 INCH	+32
		600-660 INCH	+2 1/2	4500-5000 INCH	+36
		660-720 INCH	+2 3/4	5000-5500 INCH	+40
		720-780 INCH	+3	5500-6000 INCH	+44
		780-840 INCH	+3 1/4	6000-6500 INCH	+48
		840-900 INCH	+3 1/2	6500-7000 INCH	+52
		900-960 INCH	+3 3/4	7000-7500 INCH	+56
		960-1020 INCH	+4	7500-8000 INCH	+60
		1020-1080 INCH	+4 1/4	8000-8500 INCH	+64
		1080-1140 INCH	+4 1/2	8500-9000 INCH	+68
		1140-1200 INCH	+4 3/4	9000-9500 INCH	+72
		1200-1260 INCH	+5	9500-10000 INCH	+76
		1260-1320 INCH	+5 1/4	10000-10500 INCH	+80
		1320-1380 INCH	+5 1/2	10500-11000 INCH	+84
		1380-1440 INCH	+5 3/4	11000-11500 INCH	+88
		1440-1500 INCH	+6	11500-12000 INCH	+92
		1500-1560 INCH	+6 1/4	12000-12500 INCH	+96
		1560-1620 INCH	+6 1/2	12500-13000 INCH	+100
		1620-1680 INCH	+6 3/4	13000-13500 INCH	+104
		1680-1740 INCH	+7	13500-14000 INCH	+108
		1740-1800 INCH	+7 1/4	14000-14500 INCH	+112
		1800-1860 INCH	+7 1/2	14500-15000 INCH	+116
		1860-1920 INCH	+7 3/4	15000-15500 INCH	+120
		1920-1980 INCH	+8	15500-16000 INCH	+124
		1980-2040 INCH	+8 1/4	16000-16500 INCH	+128
		2040-2100 INCH	+8 1/2	16500-17000 INCH	+132
		2100-2160 INCH	+8 3/4	17000-17500 INCH	+136
		2160-2220 INCH	+9	17500-18000 INCH	+140
		2220-2280 INCH	+9 1/4	18000-18500 INCH	+144
		2280-2340 INCH	+9 1/2	18500-19000 INCH	+148
		2340-2400 INCH	+9 3/4	19000-19500 INCH	+152
		2400-2460 INCH	+10	19500-20000 INCH	+156
		2460-2520 INCH	+10 1/4	20000-20500 INCH	+160
		2520-2580 INCH	+10 1/2	20500-21000 INCH	+164
		2580-2640 INCH	+10 3/4	21000-21500 INCH	+168
		2640-2700 INCH	+11	21500-22000 INCH	+172
		2700-2760 INCH	+11 1/4	22000-22500 INCH	+176
		2760-2820 INCH	+11 1/2	22500-23000 INCH	+180
		2820-2880 INCH	+11 3/4	23000-23500 INCH	+184
		2880-2940 INCH	+12	23500-24000 INCH	+188
		2940-3000 INCH	+12 1/4	24000-24500 INCH	+192
		3000-3060 INCH	+12 1/2	24500-25000 INCH	+196
		3060-3120 INCH	+12 3/4	25000-25500 INCH	+200
		3120-3180 INCH	+13	25500-26000 INCH	+204
		3180-3240 INCH	+13 1/4	26000-26500 INCH	+208
		3240-3300 INCH	+13 1/2	26500-27000 INCH	+212
		3300-3360 INCH	+13 3/4	27000-27500 INCH	+216
		3360-3420 INCH	+14	27500-28000 INCH	+220
		3420-3480 INCH	+14 1/4	28000-28500 INCH	+224
		3480-3540 INCH	+14 1/2	28500-29000 INCH	+228
		3540-3600 INCH	+14 3/4	29000-29500 INCH	+232
		3600-3660 INCH	+15	29500-30000 INCH	+236
		3660-3720 INCH	+15 1/4	30000-30500 INCH	+240
		3720-3780 INCH	+15 1/2	30500-31000 INCH	+244
		3780-3840 INCH	+15 3/4	31000-31500 INCH	+248
		3840-3900 INCH	+16	31500-32000 INCH	+252
		3900-3960 INCH	+16 1/4	32000-32500 INCH	+256
		3960-4020 INCH	+16 1/2	32500-33000 INCH	+260
		4020-4080 INCH	+16 3/4	33000-33500 INCH	+264
		4080-4140 INCH	+17	33500-34000 INCH	+268
		4140-4200 INCH	+17 1/4	34000-34500 INCH	+272
		4200-4260 INCH	+17 1/2	34500-35000 INCH	+276
		4260-4320 INCH	+17 3/4	35000-35500 INCH	+280
		4320-4380 INCH	+18	35500-36000 INCH	+284
		4380-4440 INCH	+18 1/4	36000-36500 INCH	+288
		4440-4500 INCH	+18 1/2	36500-37000 INCH	+292
		4500-4560 INCH	+18 3/4	37000-37500 INCH	+296
		4560-4620 INCH	+19	37500-38000 INCH	+300
		4620-4680 INCH	+19 1/4	38000-38500 INCH	+304
		4680-4740 INCH	+19 1/2	38500-39000 INCH	+308
		4740-4800 INCH	+19 3/4	39000-39500 INCH	+312
		4800-4860 INCH	+20	39500-40000 INCH	+316
		4860-4920 INCH	+20 1/4	40000-40500 INCH	+320
		4920-4980 INCH	+20 1/2	40500-41000 INCH	+324
		4980-5040 INCH	+20 3/4	41000-41500 INCH	+328
		5040-5100 INCH	+21	41500-42000 INCH	+332
		5100-5160 INCH	+21 1/4	42000-42500 INCH	+336
		5160-5220 INCH	+21 1/2	42500-43000 INCH	+340
		5220-5280 INCH	+21 3/4	43000-43500 INCH	+344
		5280-5340 INCH	+22	43500-44000 INCH	+348
		5340-5400 INCH	+22 1/4	44000-44500 INCH	+352
		5400-5460 INCH	+22 1/2	44500-45000 INCH	+356
		5460-5520 INCH	+22 3/4	45000-45500 INCH	+360
		5520-5580 INCH	+23	45500-46000 INCH	+364
		5580-5640 INCH	+23 1/4	46000-46500 INCH	+368
		5640-5700 INCH	+23 1/2	46500-47000 INCH	+372
		5700-5760 INCH	+23 3/4	47000-47500 INCH	+376
		5760-5820 INCH	+24	47500-48000 INCH	+380
		5820-5880 INCH	+24 1/4	48000-48500 INCH	+384
		5880-5940 INCH	+24 1/2	48500-49000 INCH	+388
		5940-6000 INCH	+24 3/4	49000-49500 INCH	+392
		6000-6060 INCH	+25	49500-50000 INCH	+396
		6060-6120 INCH	+25 1/4	50000-50500 INCH	+400
		6120-6180 INCH	+25 1/2	50500-51000 INCH	+404
		6180-6240 INCH	+25 3/4	51000-51500 INCH	+408
		6240-6300 INCH	+26	51500-52000 INCH	+412
		6300-6360 INCH	+26 1/4	52000-52500 INCH	+416
		6360-6420 INCH	+26 1/2	52500-53000 INCH	+420
		6420-6480 INCH	+26 3/4	53000-53500 INCH	+424
		6480-6540 INCH	+27	53500-54000 INCH	+428
		6540-6600 INCH	+27 1/4	54000-54500 INCH	+432
		6600-6660 INCH	+27 1/2	54500-55000 INCH	+436
		6660-6720 INCH	+27 3/4	55000-55500 INCH	+440
		6720-6780 INCH	+28	55500-56000 INCH	+444
		6780-6840 INCH	+28 1/4	56000-56500 INCH	+448
		6840-6900 INCH	+28 1/2	56500-57000 INCH	+452
		6900-6960 INCH	+28 3/4	57000-57500 INCH	+456
		6960-7020 INCH	+29	57500-58000 INCH	+460
		7020-7080 INCH	+29 1/4	58000-58500 INCH	+464
		7080-7140 INCH	+29 1/2	58500-59000 INCH	+468
		7140-7200 INCH	+29 3/4	59000-59500 INCH	+472
		7200-7260 INCH	+30	59500-60000 INCH	+476
		7260-7320 INCH	+30 1/4	60000-60500 INCH	+480
		7320-7380 INCH	+30 1/2	60500-61000 INCH	+484
		7380-7440 INCH	+30 3/4	61000-61500 INCH	+488
		7440-7500 INCH	+31	61500-62000 INCH	+492
		7500-7560 INCH	+31 1/4	62000-62500 INCH	+496
		7560-7620 INCH	+31 1/2	62500-63000 INCH	+500
		7620-7680 INCH	+31 3/4	63000-63500 INCH	+504
		7680-7740 INCH	+32	63500-64000 INCH	+508
		7740-7800 INCH	+32 1/4	64000-64500 INCH	+512
		7800-7860 INCH	+32 1/2	64500-65000 INCH	+516
		7860-7920 INCH	+32 3/4	65000-65500 INCH	+520
		7920-7980 INCH	+33	65500-66000 INCH	+524
		7980-8040 INCH	+33 1/4	66000-66500 INCH	+528
		8040-8100 INCH	+33 1/2	66500-67000 INCH	+532
		8100-8160 INCH	+33 3/4	67000-67500 INCH	+536
		8160-8220 INCH	+34	67500-68000 INCH	+540
		8220-8280 INCH	+34 1/4	68000-68500 INCH	+544
		8280-8340 INCH	+34 1/2	68500-69000 INCH	+548
		8340-8400 INCH	+34 3/4	69000-69500 INCH	+552
		8400-8460 INCH	+35	69500-70000 INCH	+556
		8460-8520 INCH	+35 1/4	70000-70500 INCH	+560
		8520-8580 INCH	+35 1/2	70500-71000 INCH	+564
		8580-8640 INCH	+35 3/4	71000-71500 INCH	+568
		8640-8700 INCH	+36	71500-72000 INCH	+572
		8700-8760 INCH	+36 1/4	72000-72500 INCH	+576
		8760-8820 INCH	+36 1/2	72500-73000 INCH	+580
		8820-8880 INCH	+36 3/4	73000-73500 INCH	+584</

OPERATING PROCEDURES

TAG AND KEY DIRECTORY

Tag No. 1: Gate Valves Exterior Line Shut-Off
2: Gate Valves Interior 2-1/2" Ø
Hose Outlet Shut-Off
3: Hose Bib and Sample Line Tap Valve
4. Cold Water Supply Valve

Key No. 1: Pump Fill Station Entrance Door
2: Exterior S/S Pumps Control

6" SUBMERSIBLE TURBINE PUMPS

PERFORMANCE

3 to 30 hp

Capacity Range: 50 to 350 US gpm

Basic Pump Model	HP rating of motor	TOTAL DYNAMIC HEAD in feet																	TDH at 0 gph			
		20	40	60	80	100	125	150	175	200	225	250	275	300	325	350	375	400				
		CAPACITY in U.S. gallons per hour																				
75S6H2-	7½		274	252	226	194	140			Series S6H										Curve 6S-69	158 ft	
10S6H3-	10			264	250	234	212	186	148	94										Curve 6S-70	230 ft	
15S6H4-	15					274	262	247	230	210	187	158	118	54						Curve 6S-71	320 ft	
20S6H5-	20		Curve 6S-72						262	250	236	222	206	186	163	128	78				410 ft	
5S6X1-S2	5 (1-ph)	395	300	150						Series S6X											Curve 6S-73	73 ft
5S6X1-T	5 (3-ph)	407	315	175																Curve 6S-74	76 ft	
75S6X2-	7½		365	315	255	175														Curve 6S-75	132 ft	
10S6X2-	10		425	385	337	285	175													Curve 6S-76	158 ft	
15S6X3-	15		Curve 6S-77			400	370	330	285	220	148											245 ft
20S6X4-	20		Curve 6S-78			427	407	382	353	321	282	240	183	132	87							328 ft
25S6X6-	25		Curve 906 113				400	385	367	346	325	302	277	246	217	182	150	112				470 ft
30S6X7-	30		Curve 906 112					400	387	370	353	335	315	293	273	248	222	193				545 ft
Basic Pump Model	HP rating of motor	TOTAL DYNAMIC HEAD in feet																	TDH at 0 gph			
		40	60	80	100	125	150	175	200	250	300	400	500	600	700	800	900	1000				
CAPACITY in U.S. gallons per minute																						
3S6J3-	3	124	113	103	91	75	53			Series S6J											Curve 6S-105	186 ft
5S6J4-S2	5 (1-ph)		127	120	113	103	92	80	66											Curve 6S-106	272 ft	
5S6J4-T	5 (3-ph)		129	122	115	106	97	86	73	32										Curve 6S-107	288 ft	
75S6J5-	7½			126	120	114	107	101	93	77	56									Curve 6S-108	394 ft	
10S6J8-	10				131	126	122	117	113	103	92	68								Curve 6S-109	550 ft	
15S6J11XP-	15		Curve 6S-110			136	133	130	126	120	113	99	84	65	33							805 ft
20S6J15XP-	20		Curve 6S-111						134	129	125	116	106	95	83	68	48	17				1075 ft
25S6J17XP-	25		Curve 906 168										107	99	91	81	70	56				1325 ft
5S6M2-S2	5 (1-ph)	210	188	165	136	74				Series S6M											Curve 6S-99	146 ft
5S6M2-T	5 (3-ph)	222	200	176	150	99														Curve 6S-100	153 ft	
75S6M3-	7½		226	210	195	175	152	118	60											Curve 6S-101	226 ft	
10S6M4-	10		235	222	210	195	180	164	145	74										Curve 6S-102	288 ft	
15S6M6-	15			238	230	221	211	202	193	172	147	54								Curve 6S-103	444 ft	
20S6M8-	20					230	223	216	203	188	156	103								Curve 6S-104	600 ft	
25S6M10XP-25			Curve 906 169								201	177	148	108								760 ft
30S6M12XP-30			Curve 906 170								214	194	172	147	116	59						910 ft

These pumps are suitable for wells of 6 inches inside diameter and larger. Check the inside diameter and the straightness of the well before installing the pump to ensure that adequate clearances exist. Note that the maximum diameter of some 6-inch models exceed the nominal size.

Capacities at intermediate total dynamic heads may be interpolated from the tables or obtained from the characteristic curves. Copies of the characteristic curves are available on request, and show the BHP ABSORBED and the EFFICIENCY in addition to the HEAD/CAPACITY relationship. The reference number of the curve for each model is given in the performance tables.

Note that NO allowance has been made in the performance tables for friction losses in the riser pipe. These losses vary with the flow rate and the size, type, and length of pipe, and should be deducted from the difference between the total dynamic head and the lift in order to determine the discharge pressure at the wellhead.

CHECK VALVES. Note that a check valve is not built into a submersible turbine pump unit, so that one should always be installed at the first pipe joint above the pump if the setting exceeds 100 feet. Use an additional check valve at the surface if the pump is part of a pressure system, or if the pressure head exceeds 500 feet. If the setting is between 500 and 600 feet, install a third check valve (non-slam) in the riser pipe at two-thirds of the setting above the pump. If the

Refer to pages C301 and C302 for details of construction and instructions for ordering.

(continued on next page)



6" AND 8" SUBMERSIBLE TURBINE PUMPS

GENERAL DESCRIPTION

3 to 30 hp

Capacity Range: 50 to 700 US gpm

A submersible turbine deep well pump is suspended from the top of the well by its discharge (or riser) pipe. It consists of a small-diameter, vertical centrifugal pump close-coupled to an underwater motor of similar dimensions. The nominal pump size, 6 inches or 8 inches, corresponds to the inside diameter of the smallest well in which the pump unit can be installed. Power reaches the motor through a waterproof cable.

The well water is drawn into the pump just above the motor. This arrangement keeps the motor submerged at all times, but the necessary cooling effect is achieved by setting the pump above the well screen or casing perforations to obtain a flow of water past the motor.

The table below shows the duties covered by 6-inch and 8-inch Submersible Turbine Pumps and provides a guide to the performance tables on the pages that follow.

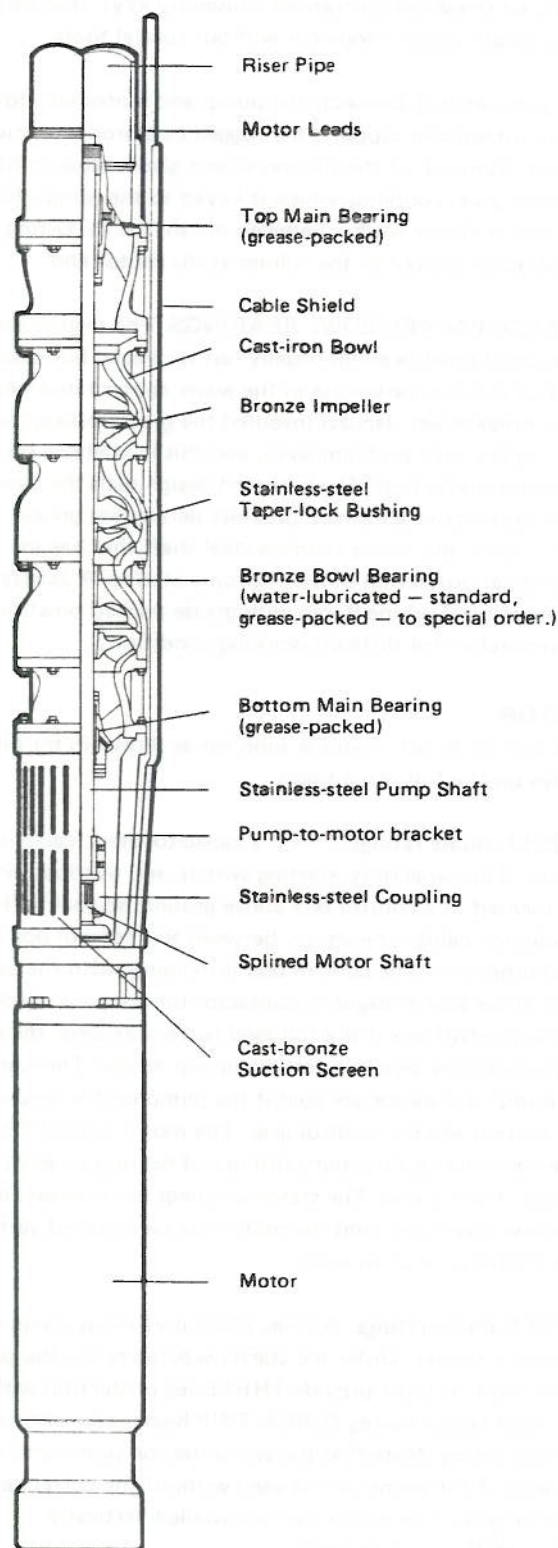
Series	HP Range	Capacity Range — US gpm	Useful Max TDH feet (approx)	Refer to pages
S6J	3 to 25	50 to 135	1000	C311-C312
S6M	5 to 30	75 to 235	700	C311-C312
S6H	7½ to 20	100 to 275	300	C311-C312
S6X	5 to 30	125 to 425	350	C311-C312
S8J	20 to 30	80 to 275	500	C321-C322
S8L	20 to 30	100 to 400	300	C321-C322
S8K	20 to 30	150 to 500	250	C321-C322
S8M	25 and 30	200 to 700	200	C-321-C322

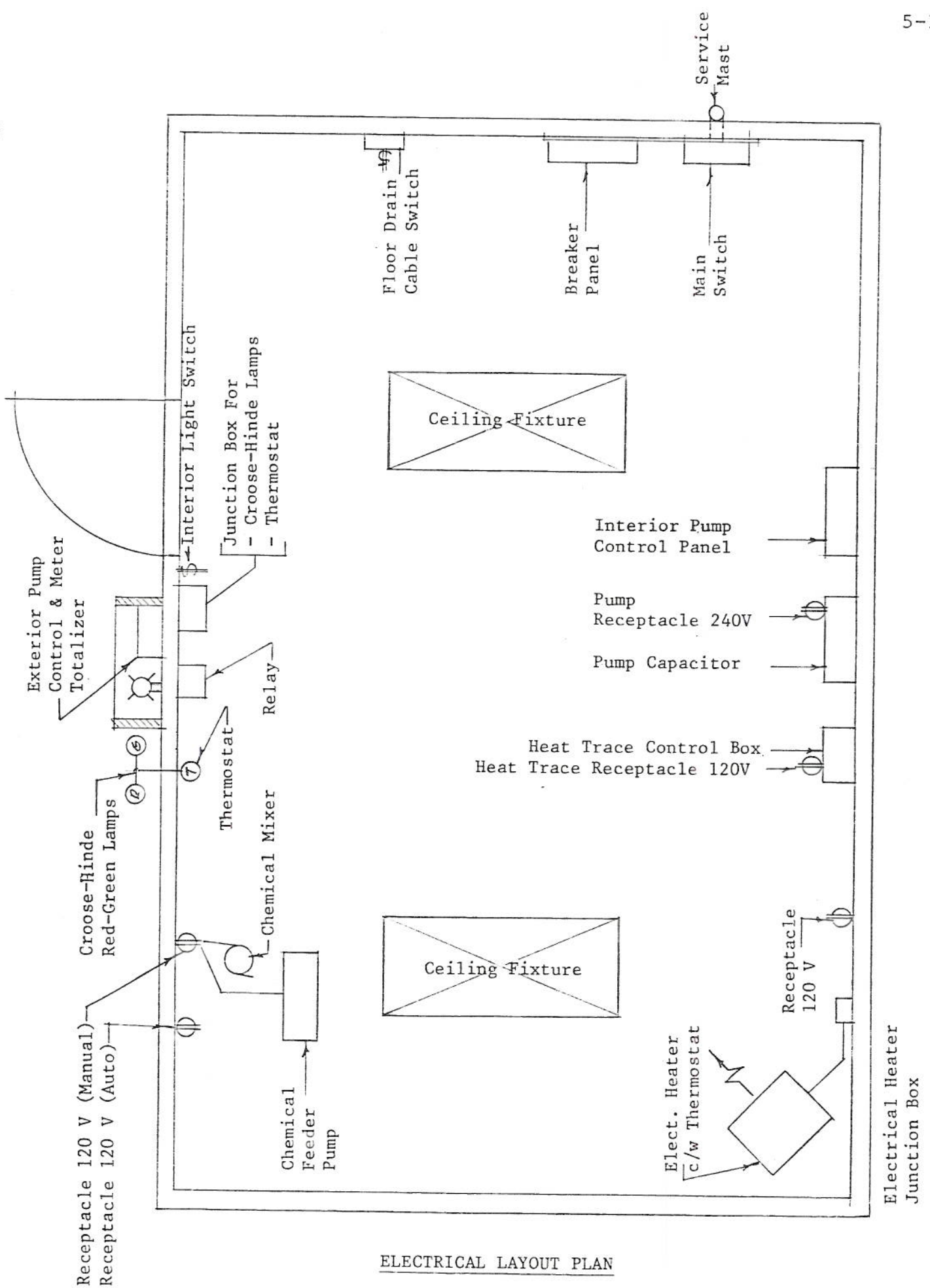
PUMP END

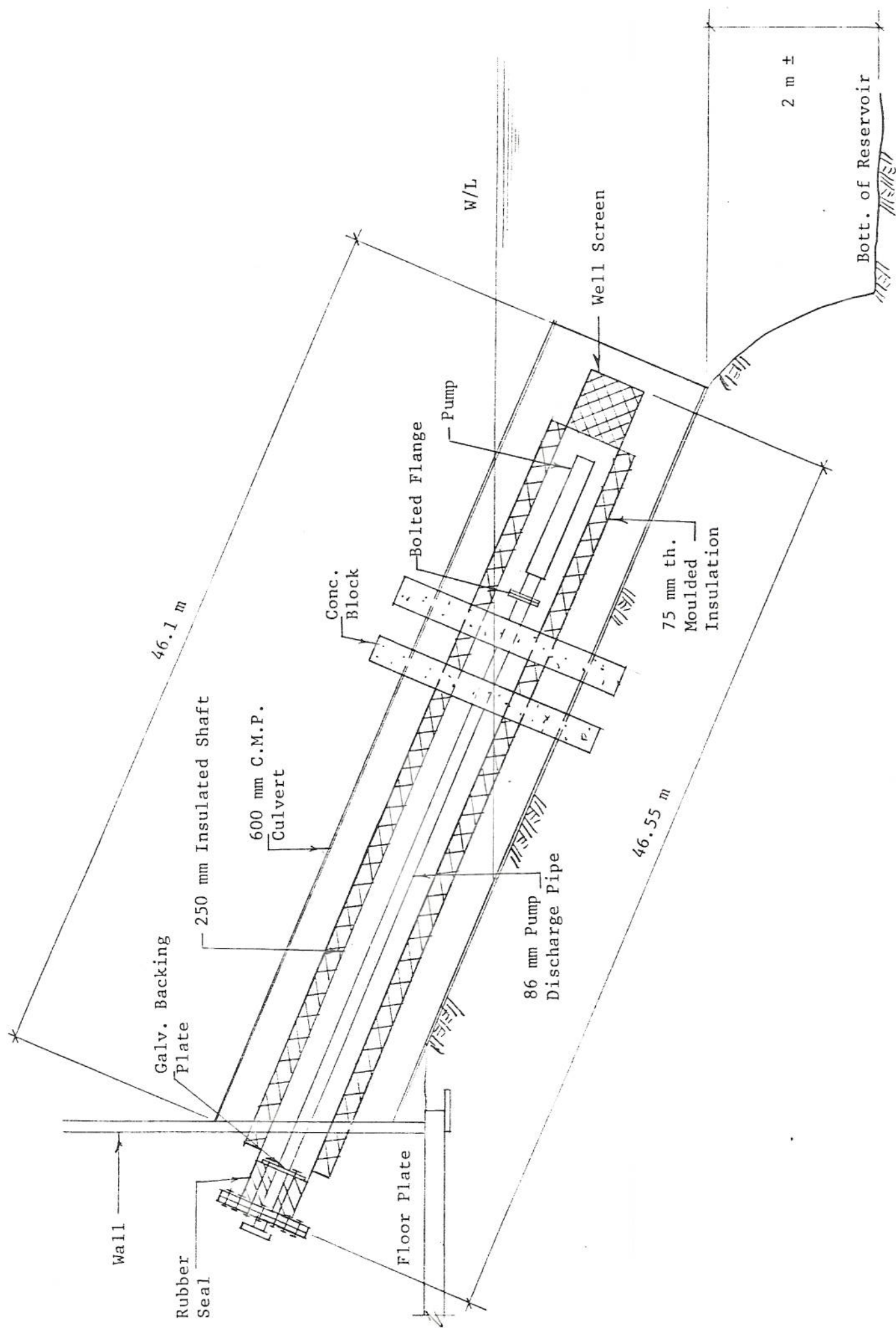
The small diameter of the pump restricts the pressure that can be generated by a single stage, so that a complete pump may have as many as seventeen stages. The stages are of mixed-flow design to meet the capacity requirements, and have closed bronze impellers and iron bowls. Each stage is self-contained with its own bronze bearing, and registers with its neighbors to give exact alignment of the completed assembly. The bowls are fastened together with stainless-steel cap screws. In addition to the water-lubricated bowl bearings, there are grease-packed top and bottom main bearings. These have extra long bronze bushings, and are sealed to keep abrasives out.

Each impeller is secured to the pump shaft by means of a taper-lock bushing. The shaft and bushings are of stainless steel. The result is a single rotating member, without the

(continued on next page)







SCHEMATIC OF INCLINED SHAFT