APPENDIX A – JESSIE WASTEWATER PUMPING STATION HISTORICAL RECORD DRAWINGS

- **DRAWINGS:**
  - Drawing 1 – 0149L – E0001 – 001
  - Drawing 1 – 0149L – P0001 – 001
  - Drawing 1 – 0149L – P0002 – 001
  - Drawing 163
  - Drawing 164
  - Drawing 286
  - Drawing 997
  - Drawing 998
  - Drawing 1060
  - Drawing D-8372
  - Drawing M-37
  - Drawing M-49
  - Drawing 1018

ARC FLASH VALUES CALCULATED ARE BASED ON THE PROTECTION SETTINGS SPECIFIED IN THIS DRAWING. ALL PHASE 1 REQUIRED WORK MUST BE COMPLETED PRIOR TO APPLYING ARC FLASH LABELS.

NOTES:

1. THIS DRAWING SUPERCEDES KGS DRAWING (DOES NOT HAVE A NUMBER).
2. THIS DRAWING CONTAINS UNVERIFIED INFORMATION FROM EXISTING DOCUMENTATION.
3. THE ENGINEER'S RESPONSIBILITY IS LIMITED TO THE ARC FLASH STUDY AND RECOMMENDED MITIGATION.

LEGEND:

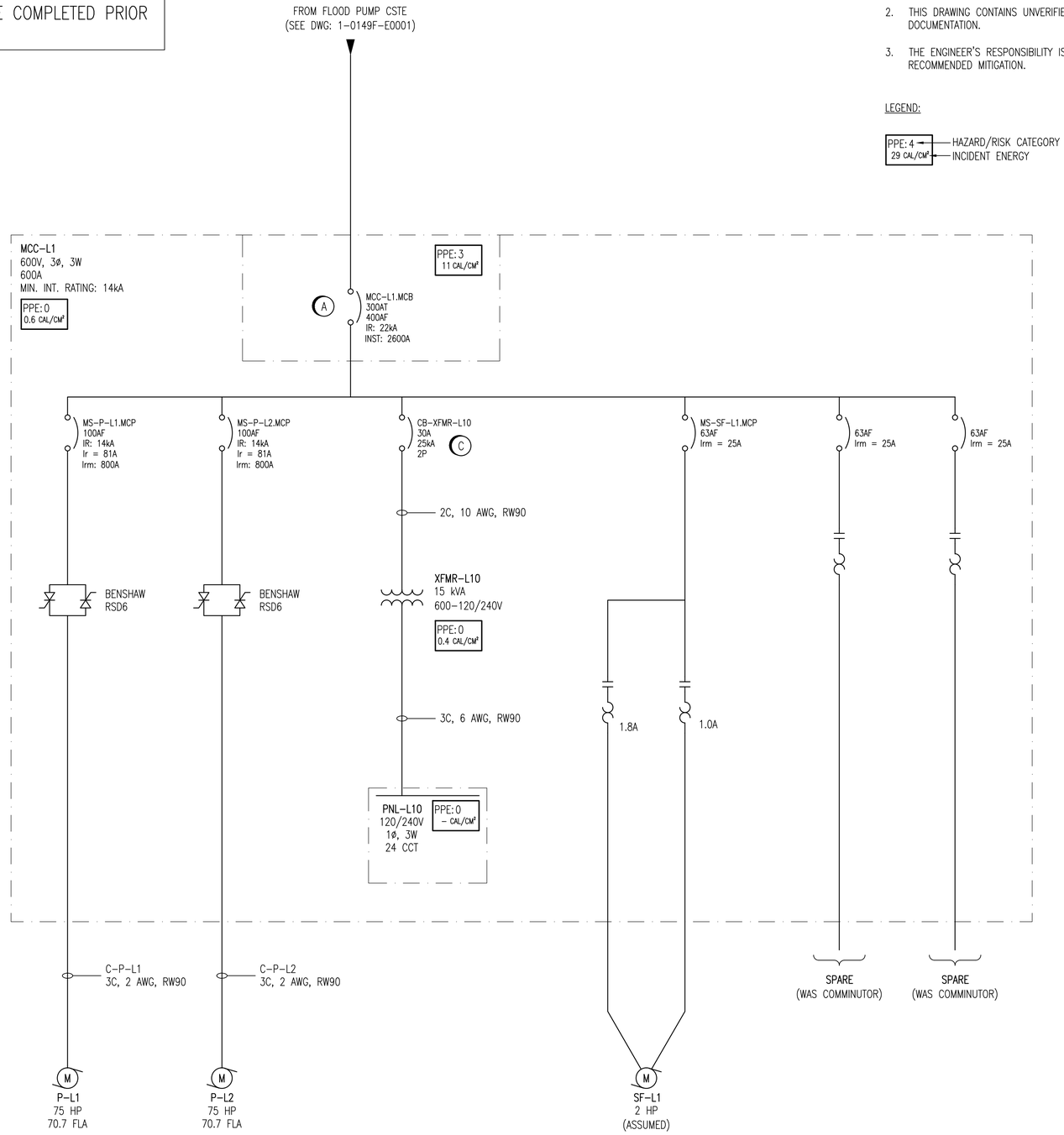
PPE: 4 — HAZARD/RISK CATEGORY
29 CAL/CM² — INCIDENT ENERGY

PHASE 1 REQUIRED WORK:

(A) ADJUST THE INSTANTANEOUS SETTING OF MCC-L1.MCB TO 6.5 (2600A).

(B) AFFIX NEW IDENTIFICATION LAMACOIDS TO:
MCC-L1
XFMR-L10
PNL-L10

(C) REPLACE EXISTING MOTOR CIRCUIT PROTECTOR WITH A 30A THERMAL MAGNETIC BREAKER.



FOR REFERENCE ONLY

APEGM Certificate of Authorization
SNC-Lavalin Inc.
No. 4489

NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR CITY USE	2011/11/23	BC	CJR

SNC-LAVALIN INC.
148 Nature Park Way
Winnipeg, MB, Canada R3P 0X7
204-786-8080

DESIGNED BY: A. SMALUCK/B. CLEVEN	CHECKED BY: C. REIMER
DRAWN BY: S. FUNK	APPROVED BY: C. REIMER
SCALE: NTS	RELEASED FOR CONSTRUCTION BY:
DATE: 2011/01/05	DATE:
CONSULTANT NO.:	

ENGINEER'S SEAL

ORIGINAL DRAWING
SEALED BY:
C. J. REIMER
SNC-LAVALIN INC.
MEMBER #21968
2011/12/01
REV. 00

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

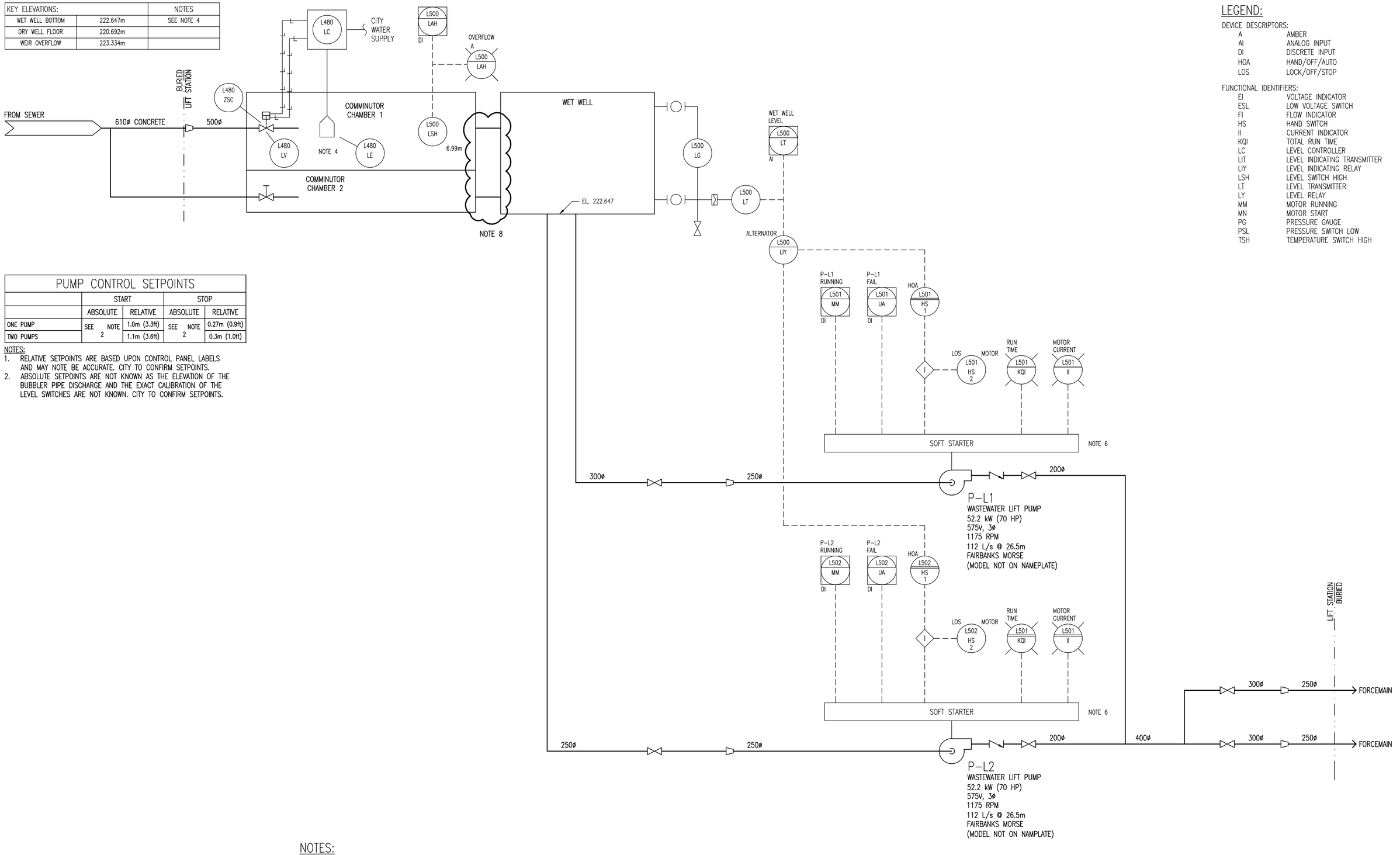
JESSIE WASTEWATER LIFT STATION
ARC FLASH STUDY
SINGLE LINE DIAGRAM

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0149L-E0001	001	00	A1

1-0149L-E0001-001-00.dwg

A1 SIZE - 594mm x 841mm

KEY ELEVATIONS:		NOTES
WET WELL BOTTOM	222.647m	SEE NOTE 4
DRY WELL FLOOR	220.692m	
WEIR OVERFLOW	223.334m	



PUMP CONTROL SETPOINTS

	START		STOP	
	ABSOLUTE	RELATIVE	ABSOLUTE	RELATIVE
ONE PUMP	SEE NOTE 2	1.0m (3.3ft)	SEE NOTE 2	0.27m (0.9ft)
TWO PUMPS		1.1m (3.6ft)		0.3m (1.0ft)

NOTES:
1. RELATIVE SETPOINTS ARE BASED UPON CONTROL PANEL LABELS AND MAY NOTE BE ACCURATE. CITY TO CONFIRM SETPOINTS.
2. ABSOLUTE SETPOINTS ARE NOT KNOWN AS THE ELEVATION OF THE BUBBLER PIPE DISCHARGE AND THE EXACT CALIBRATION OF THE LEVEL SWITCHES ARE NOT KNOWN. CITY TO CONFIRM SETPOINTS.

LEGEND:

DEVICE DESCRIPTORS:

A	AMBER
AI	ANALOG INPUT
DI	DISCRETE INPUT
HOA	HAND/OFF/AUTO
LOS	LOCK/OFF/STOP

FUNCTIONAL IDENTIFIERS:

EI	VOLTAGE INDICATOR
ESL	LOW VOLTAGE SWITCH
FI	FLOW INDICATOR
HS	HAND SWITCH
II	CURRENT INDICATOR
KQI	TOTAL RUN TIME
LC	LEVEL CONTROLLER
LIT	LEVEL INDICATING TRANSMITTER
LIY	LEVEL INDICATING RELAY
LSH	LEVEL SWITCH HIGH
LT	LEVEL TRANSMITTER
LY	LEVEL RELAY
MM	MOTOR RUNNING
MN	MOTOR START
PG	PRESSURE GAUGE
PSL	PRESSURE SWITCH LOW
TSH	TEMPERATURE SWITCH HIGH

NOTES:
1. ALL INSTRUMENT IDENTIFIERS HAVE AN OPTIONAL FACILITY PREFIX OF "JES-". EXAMPLE: JES-L501-HS-1
2. INSTRUMENTS SHOWN IN AN AUXILIARY LOCATION ARE ON THE MCC SOFT STARTERS, UNLESS OTHERWISE INDICATED.
3. INLET GATE VALVE CONTROLLER IS DISCONNECTED DURING LOW FLOW CONDITIONS.
4. ELEVATION NOT CONFIRMED BY SURVEYOR.
5. PIPING MATERIALS AND GRADES ARE TO BE CONFIRMED.
6. PUMP MOTORS ARE LOCATED ON FLOOR ABOVE PUMPS.
7. THIS DRAWING IS BASED ON LIMITED AVAILABLE DOCUMENTATION AND VISUAL SITE INVESTIGATIONS. ELECTRICAL CONTROL SCHEMATICS WERE NOT AVAILABLE AND THUS SOME OF THE CONTROLS ARE ASSUMED.
8. THE CONNECTION BETWEEN THE COMMINUTOR CHAMBERS AND THE WET WELL COULD NOT BE CONFIRMED BASED ON EXISTING DOCUMENTATION AND SITE VISITS.

DRAWING NUMBER	REFERENCE DRAWINGS

APEGM Certificate of Authorization
SNC-Lavalin Inc.
No. 4489

NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR CITY USE	2012/01/31	-	TMC

SNC-LAVALIN INC.
148 Nature Park Way
Winnipeg, MB, Canada R3P 0X7
204-786-8080

DESIGNED BY: EXISTING	CHECKED BY: T. CHURCH
DRAWN BY: S. FUNK	APPROVED BY: C. REIMER
SCALE: NTS	RELEASED FOR CONSTRUCTION BY:
DATE: 2011/02/14	DATE:
CONSULTANT NO.:	

ENGINEER'S SEAL

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

JESSIE WASTEWATER PUMPING STATION
PUMPING STATION CONDITION ASSESSMENT PHASE 1
PROCESS & INSTRUMENTATION DIAGRAM
WASTEWATER PUMPING

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0149L-P0001	001	00	A1

1-0149L-P0001-001-00.dwg

LAST SAVE: 2012/02/02 - 9:53am
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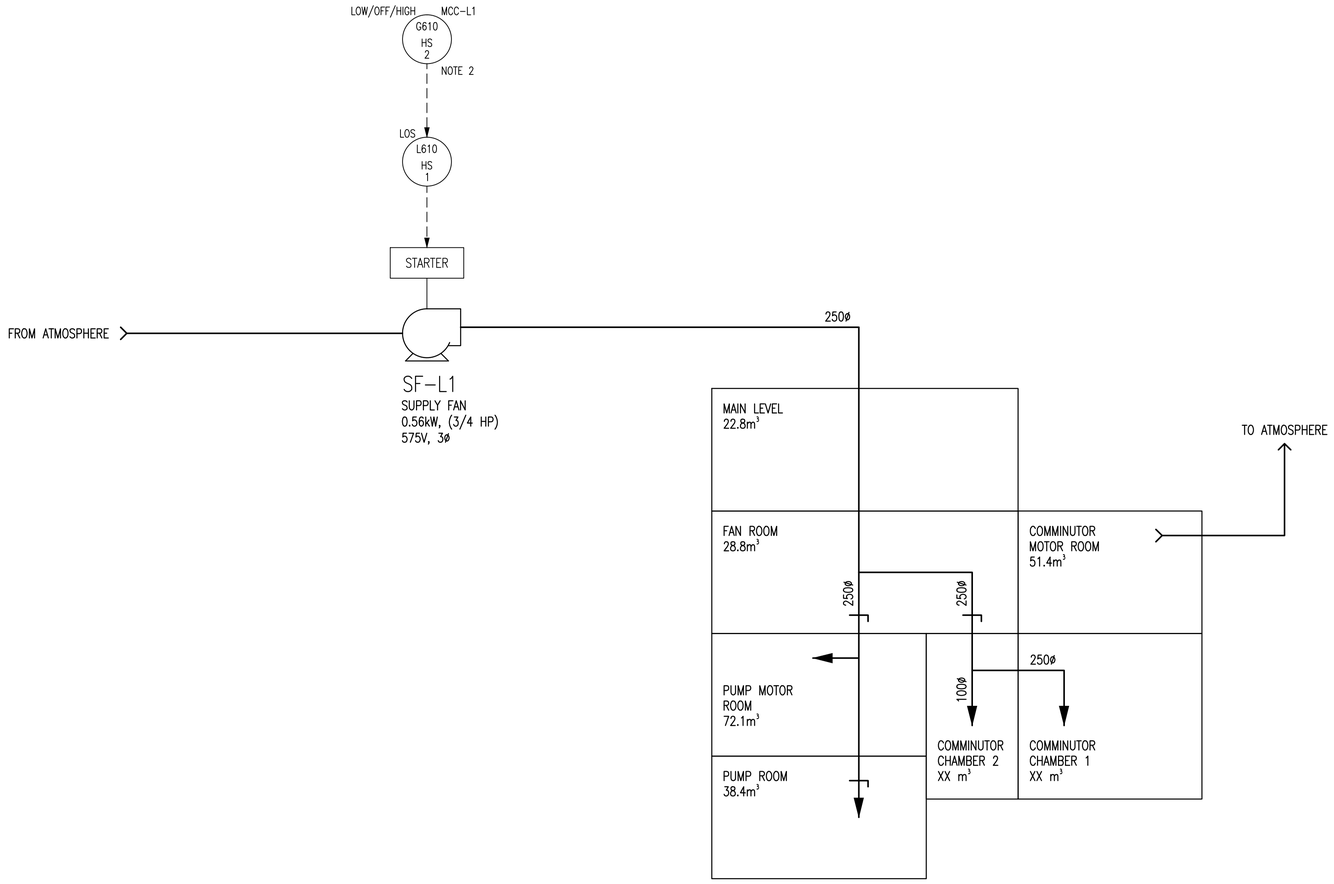
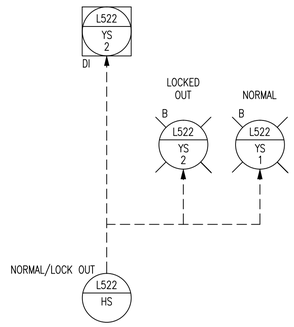




RTU ALARM LOCKOUT

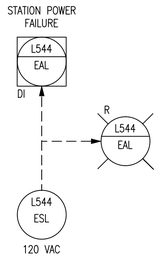
LEGEND:

DEVICE DESCRIPTORS:

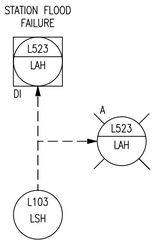
A	AMBER
B	BLUE
DI	DISCHARGE INPUT
R	RED
LOS	LOCK/OFF/STOP

FUNCTIONAL IDENTIFIERS:

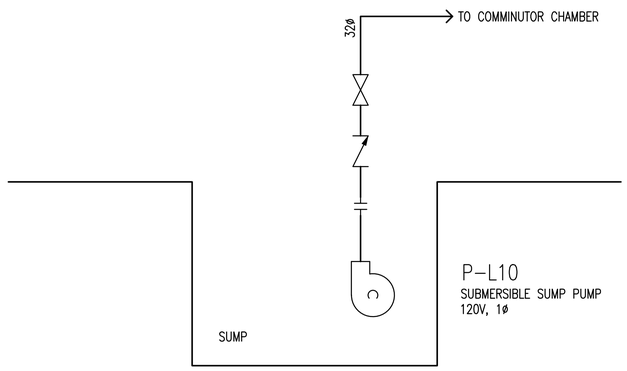
EI	VOLTAGE INDICATOR
ESL	LOW VOLTAGE SWITCH
FI	FLOW INDICATOR
HS	HAND SWITCH
II	CURRENT INDICATOR
KQI	TOTAL RUN TIME
LC	LEVEL CONTROLLER
LIT	LEVEL INDICATING TRANSMITTER
LIY	LEVEL INDICATING RELAY
LSH	LEVEL SWITCH HIGH
LT	LEVEL TRANSMITTER
LY	LEVEL RELAY
MM	MOTOR RUNNING
MN	MOTOR START
PG	PRESSURE GAUGE
PSL	PRESSURE SWITCH LOW
TSH	TEMPERATURE SWITCH HIGH



ELECTRICAL POWER ALARMS



STATION FLOOD ALARM



NOTES:

1. ALL INSTRUMENT IDENTIFIERS HAVE AN OPTIONAL FACILITY PREFIX OF "JES–". EXAMPLE: JES–L501–HS–1
2. LOW/HIGH SWITCH HIGH POSITION CAUSES CIRCUIT BREAKER TO TRIP.

DRAWING NUMBER	REFERENCE DRAWINGS

APEGM Certificate of Authorization
SNC-Lavalin Inc.
No. 4489

NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR CITY USE	2012/01/31	–	TMC

SNC·LAVALIN
SNC–LAVALIN INC.
148 Nature Park Way
Winnipeg, MB, Canada R3P 0X7
204–786–8080

DESIGNED BY: EXISTING	CHECKED BY: T. CHURCH
DRAWN BY: S. FUNK	APPROVED BY: C. REIMER
SCALE: NTS	RELEASED FOR CONSTRUCTION BY:
DATE: 2011/02/17	DATE:
CONSULTANT NO.:	

ENGINEER'S SEAL

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

JESSIE WASTEWATER PUMPING STATION
PUMPING STATION CONDITION ASSESSMENT PHASE 1
PROCESS & INSTRUMENTATION DIAGRAM
HVAC & MISC

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1–0149L–P0002	001	00	A1

Note :- Material to be supplied and installed by Contractor where shown or located as directed by Engineer.
Ladders - Sides 2½" x ½", 16" apart. Rungs ¾" ø at 14" o.c.
Safety Guard - 1½" - 3/16" - See Drg. No 134 for detail.
Grating to support 200 lbs per sq. ft live load.
Eyebolts (3) ¾" ø Galvanized with 4"x4" Washers.
Control Valve connections - 3-½" (I.P.S.) 21" long brass pipe. See Drg No 134.
Water Pipe connection - 1 pc. ¾ (I.P.S.) 18" long brass pipe, threaded 2 ends.
Reinforcing steel - Sizes & spacing to be given later by Engineer.

Ref. for Sections not on this sheet to Drg No 164
" For details of Superstructure to Drg No 136
" For details of Special Solid Cover & M.H. Frame to Drg. No 181.
" Round finish all floors.
Holes for electric conduits to be made by this contractor as directed by Engineer.
See Drwg No 26 for Details of Seal Water Tank.

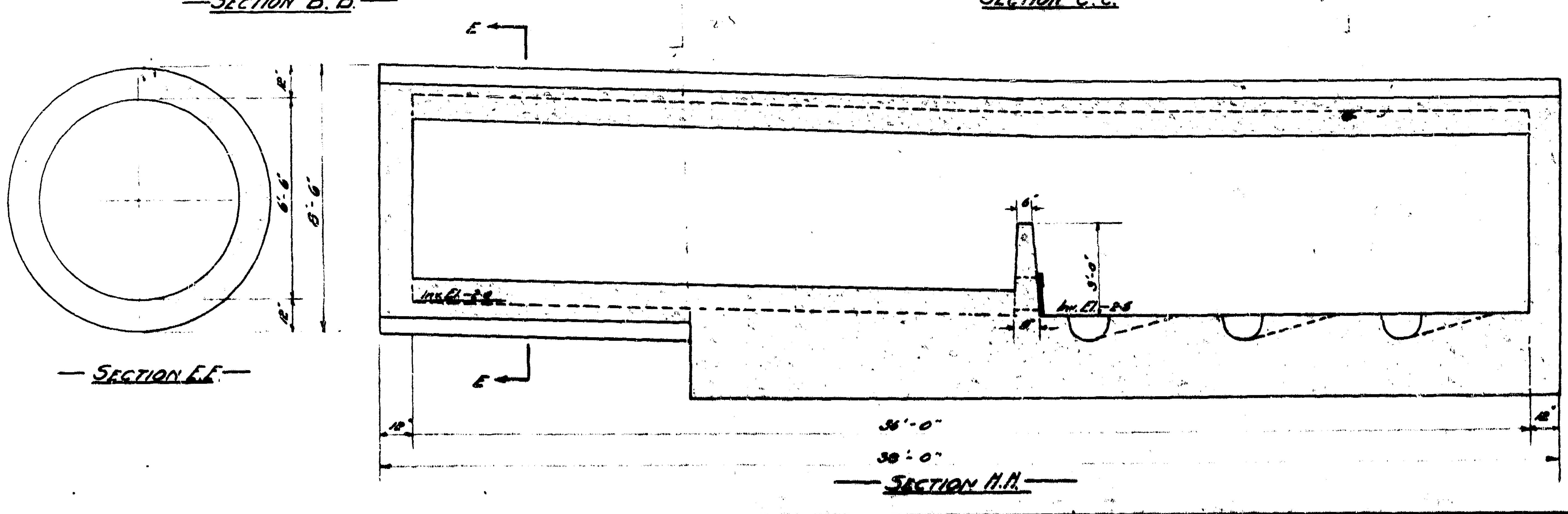
APPROVED

GREATER WINNIPEG SANITARY DISTRICT

JESSIE AVE. PUMPING STATION No. 8
Sheet No 1 of 2
⅜ in = 1 ft
W.R.C.T.
Nov. 11-1936
163
30.

Rev. "A" July 23, 1936 Motor Room Floor revised adding openings & beams.
Rev. B Jun 8 37 Brass service pipes added, Drg. 21 revised, circular openings in ... revised.
JULY 23 1937 Seal Water Tank Location given

Ladders to extend 3'-0" above floor level.
EL. +35.15
8'-0" below ground level
3/4" ϕ Brass Pipe (I.P.S.) 15" lg. Threaded both ends.
Safety Guard
16" Ladder with Rungs 14" o.c.
El. 22·5
9'-0"
6'-6"
3/4" Plate Flap Gate and Frame to be supplied and installed by Contractor. For details, See Dwg. № 154.
Inv. El. -2·5
El. -4·0
SECTION B.B.
For Superstructure see Drg. № 156
Ground El. 34·65
Special G.H.S.D. Manhole Cover & Frame. See Drg 181
12'-0"
20'-0"
8'-0"
8'-6"
Inv. El. +3·0
SECTION C.C.
Piping from this point to end of existing Secondaries to be supplied & set by Contractor
Sleeves supplied by G.H.S.D., set by Contractor.
Slope Floor
SECTION D.D.
Superstructure
Contractor to supply and install this pipe
End of existing pipes
2 - 12" C.I. Pipes
Contractor to supply and install 2-12" C.I. pipes from this point to sleeve in pumping station wall
Jessie Ave.
Location Plan of Jessie Ave. Pump Station
Scale 1in = 80ft.



Note :- Material to be supplied and installed by Contractor where shown or located as directed by Engineer.
Ladders - Sides 2½" x ½", 16" apart. Rungs ¾" ϕ at 14" o.c.
Safety Guard - 1½" x ¾" - See Drg. № 154 for detail.
Grating to support 200 lbs per sq. ft. live load.
Eyebolts (2) ¾" ϕ Galvanized with 4 x 4" washers.
Control Valve connections - 3-½" (I.P.S.) 21" long brass pipe. See Drg № 154
Water Pipe connection - 1 pc. ¾ (I.P.S.) 10" long brass pipe, threaded 2 ends
Reinforcing steel - Sizes & spacing to be given later by Engineer.
Ref. to - Sections not on this sheet to Drg. № 163
For details of Superstructure to Drg. № 156
For details of Special Sa. .s Cover & M.H. frame to Drg. № 181
Trowel finish all floors.
Holes for electric conduits to be made by this contractor as directed by Engineer

SANITARY D...

TITLE JESSIE AVE PUMPING STATION
№ 4
Sheet № 2 of 2
May 11 - 1936
164
30

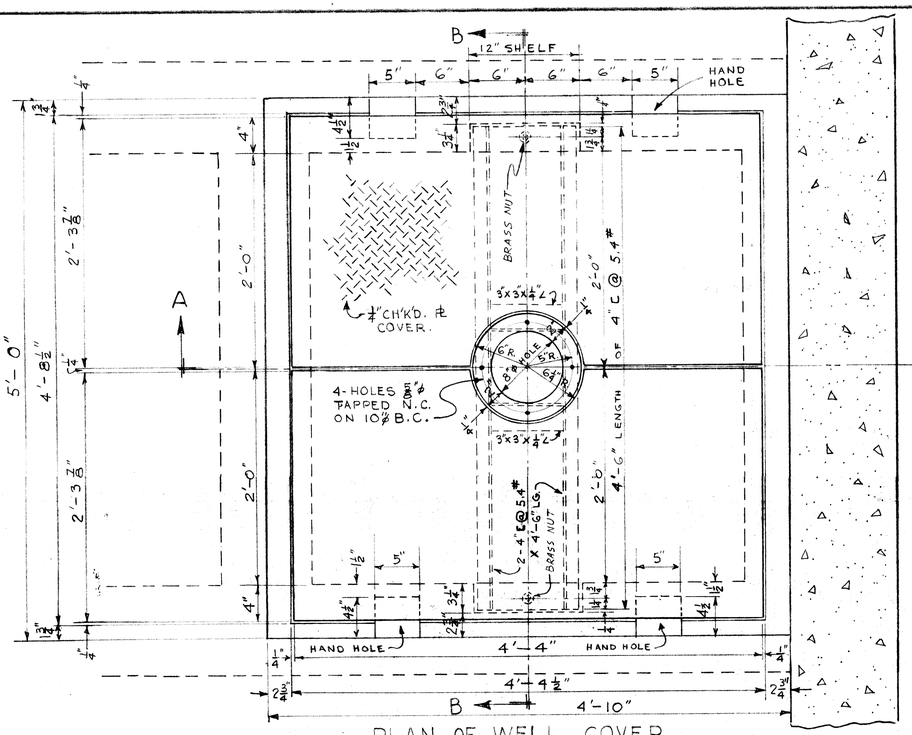
JULY 23, 1937 Dml Water Tank Location given

APPROVED

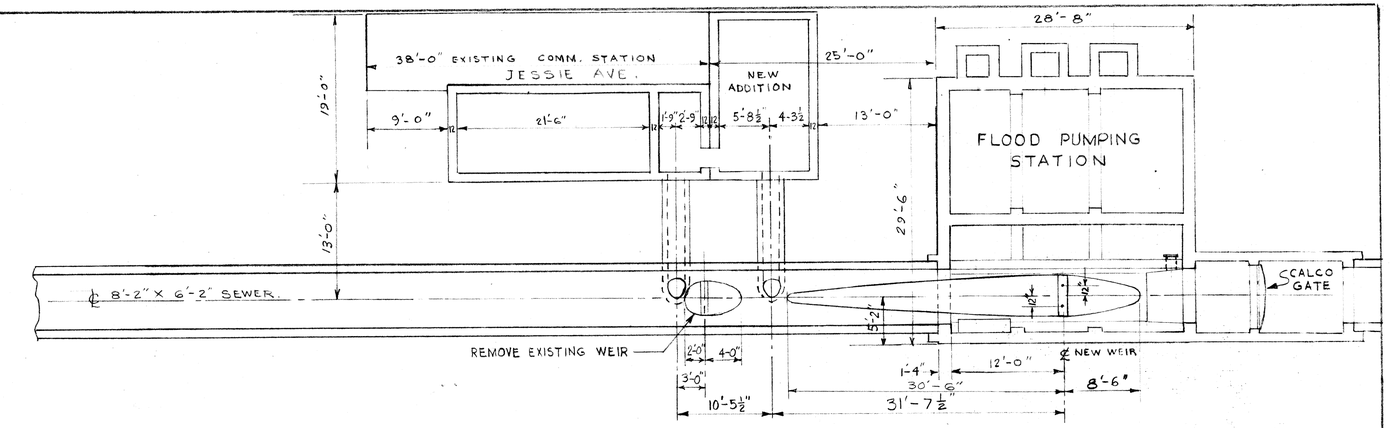
file # FM 10084

REF. or DRAWING No. 286

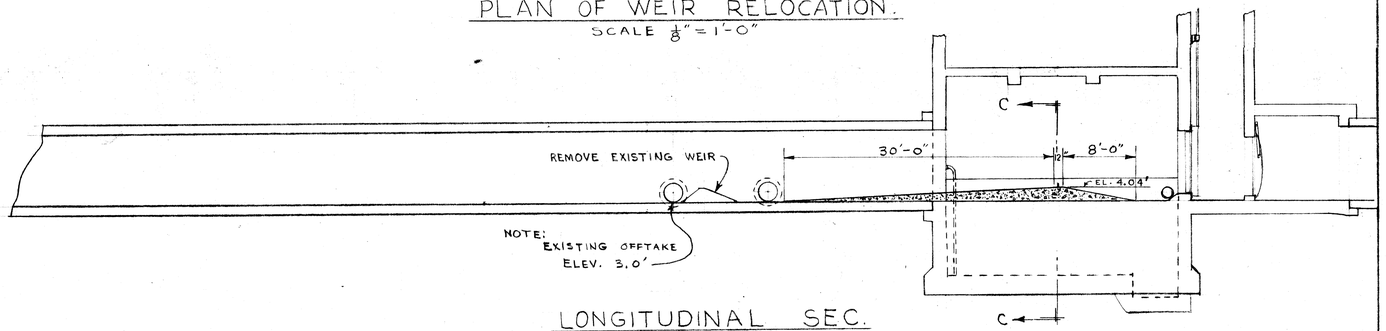
DETAILS



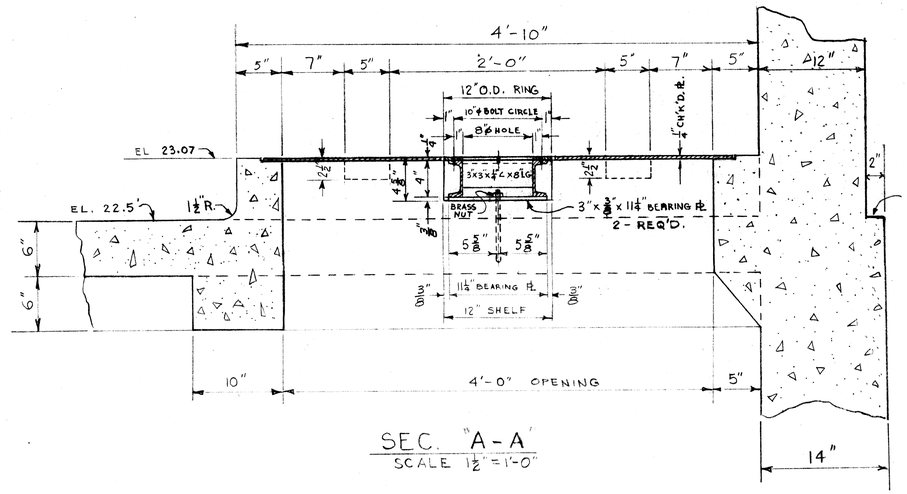
PLAN OF WELL COVER.
SCALE 1½" = 1'-0"



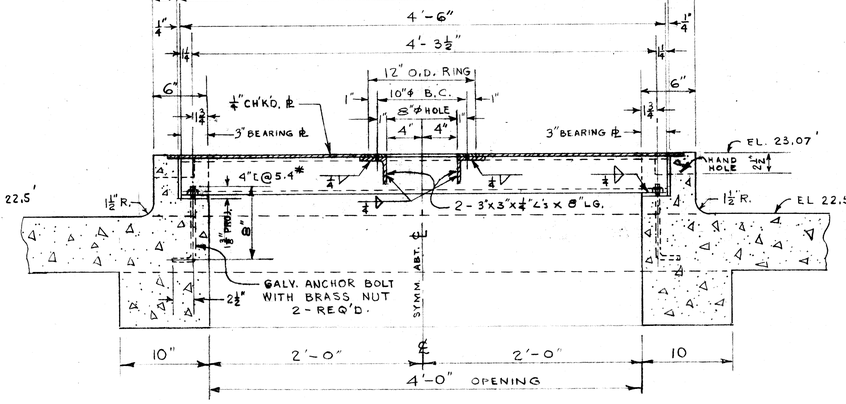
PLAN OF WEIR RELOCATION.
SCALE ⅛" = 1'-0"



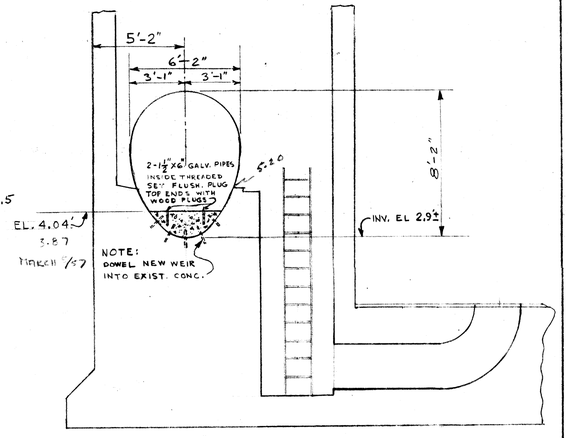
LONGITUDINAL SEC.
SCALE ⅛" = 1'-1'-0"



SEC. "A-A"
SCALE 1½" = 1'-0"



SEC. "B-B"
SCALE 1½" = 1'-0"



SEC "C-C"
SCALE ¼" = 1'-0"

Mich. Filmed 1985

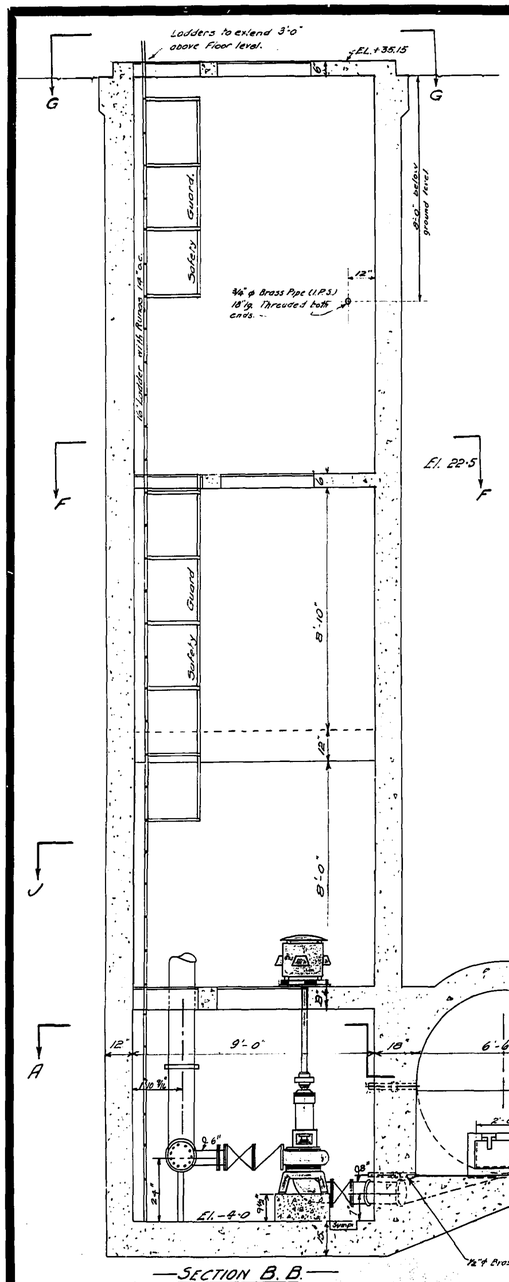
PROVINCE OF MANITOBA — ALEXANDER PENMAN — REGISTERED ENGINEER

PROVINCE OF MANITOBA — R. C. SOMMERVILLE — REGISTERED ENGINEER

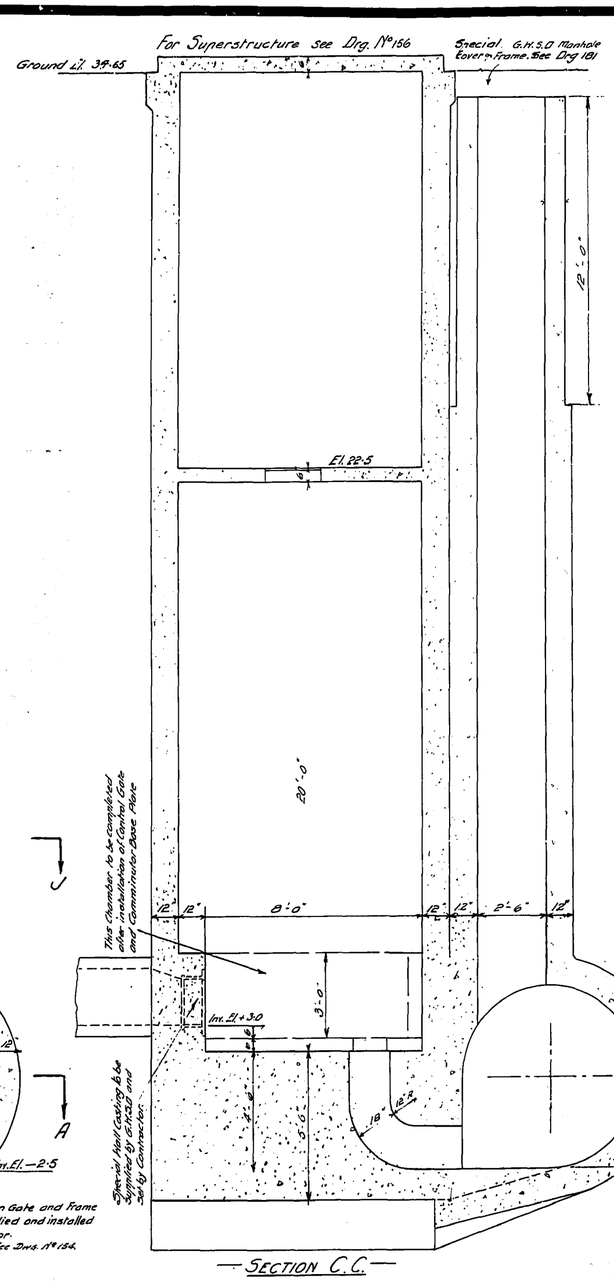
GREATER WINNIPEG SANITARY DISTRICT

DRAWN HB	DATE 1 DEC 55	TITLE: JESSIE AVE. COMMINUTOR STA. DETAILS OF COMM. WELL COVER & NEW WIER IN FLOOD PUMPING STATION.	
TRACED	CHECKED RCS KLH		
APPROVED	SUPT.		
	CHIEF ENGR.	SCALE AS NOTED	286

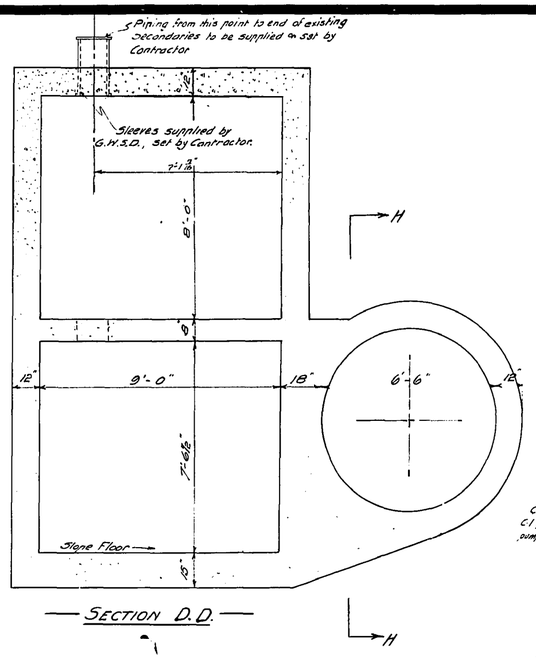
286



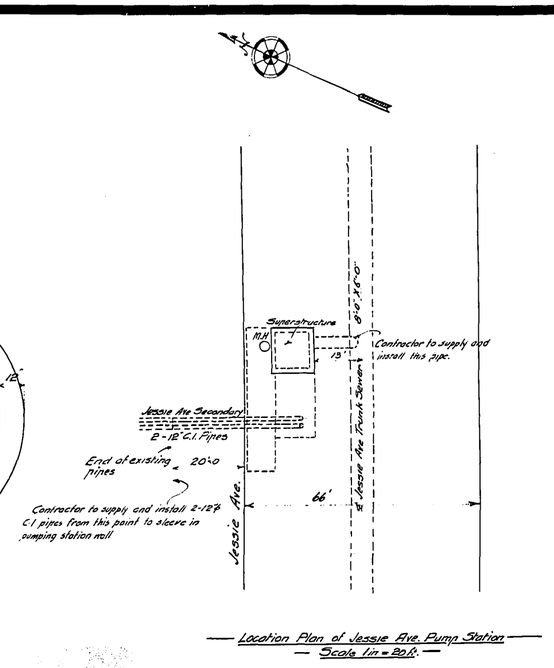
— SECTION B.B. —



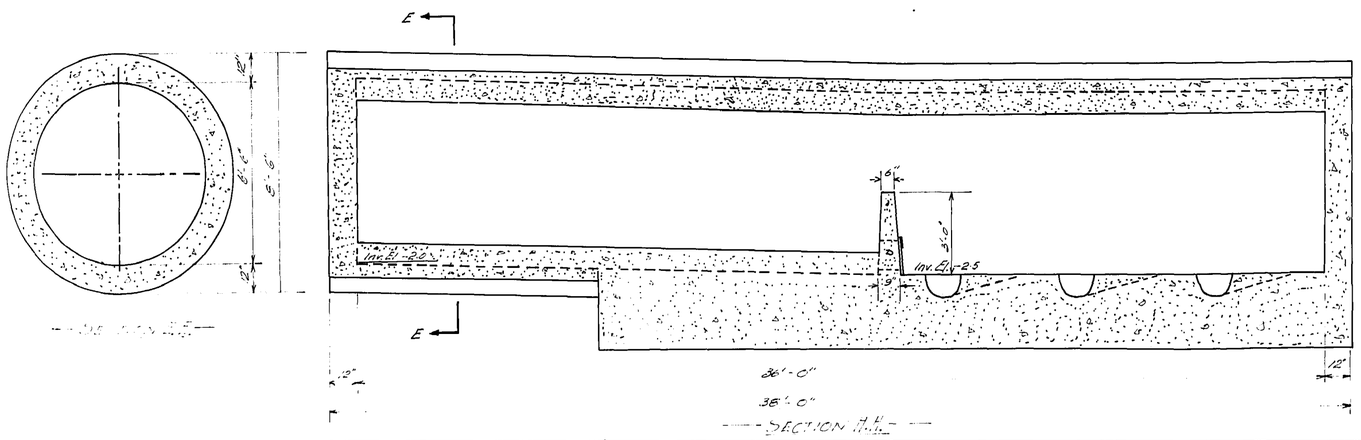
— SECTION C.C. —



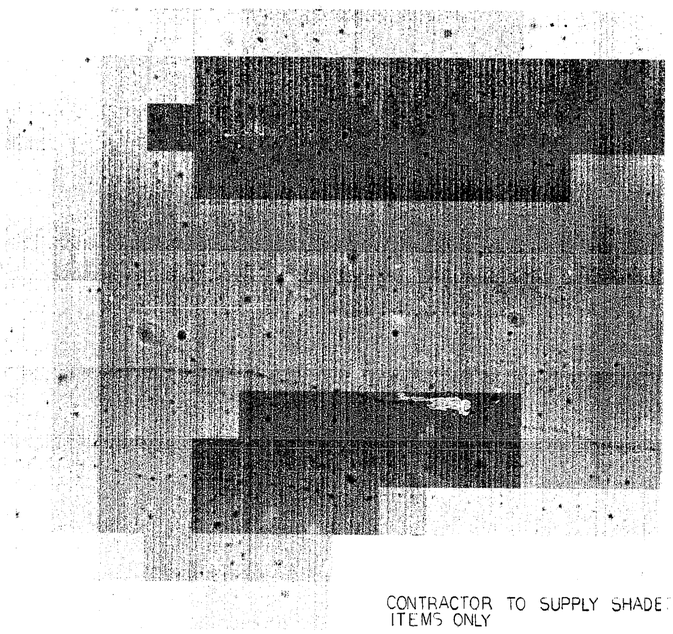
— SECTION D.D. —



— Location Plan of Jessie Ave. Pump Station —
— Scale 1in = 20ft. —



— SECTION M.H. —

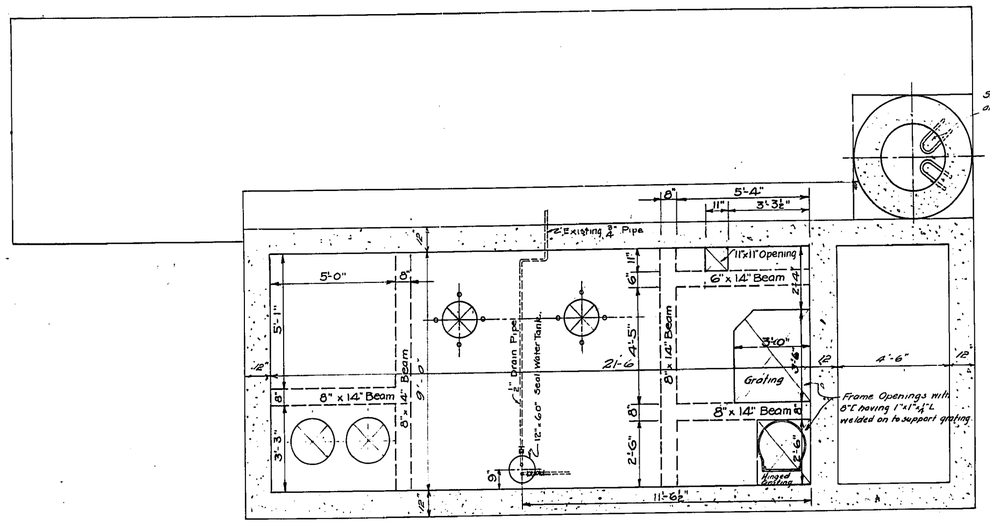


CONTRACTOR TO SUPPLY SHADE ITEMS ONLY

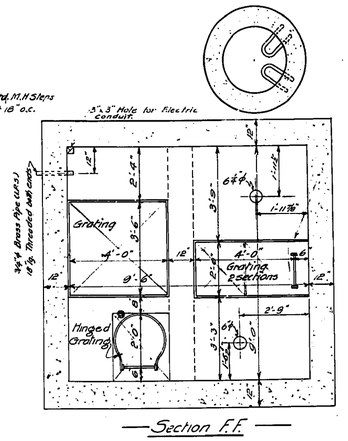
FOR INFORMATION ONLY

Shell # 21132

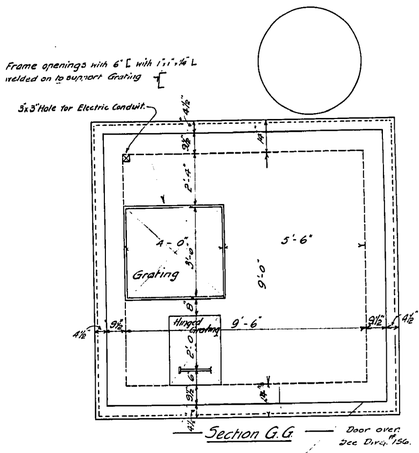
DESIGNED BY	DRAWN BY ENN	THE CITY OF WINNIPEG WORKS & OPERATIONS DEPARTMENT WATERWORKS, WASTE & DISPOSAL DIVISION
CHECKED BY	DATE	JESSIE PUMP STN. PUMP REPLACEMENT
APPROVED BY	DATE	DATE 1980 05 23
		SCALE 3/8" = 1' DRAWING NO. 997



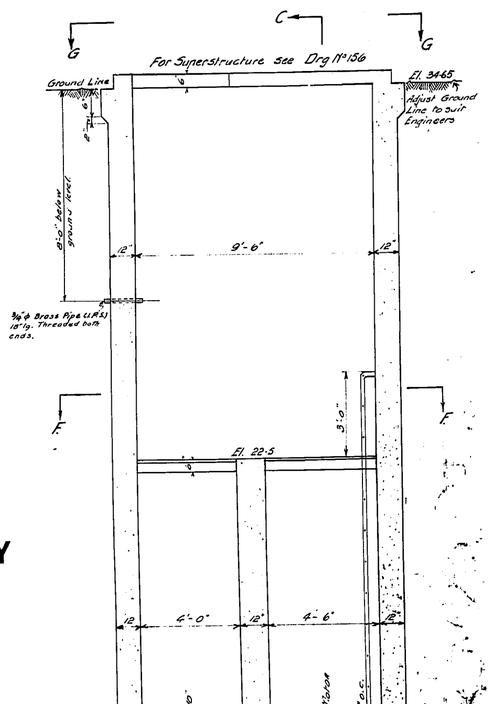
— Motor Room Floor —
— Section J.J —



— Section F.F —



— Section G.G —
Door over See Drg. 11°156.

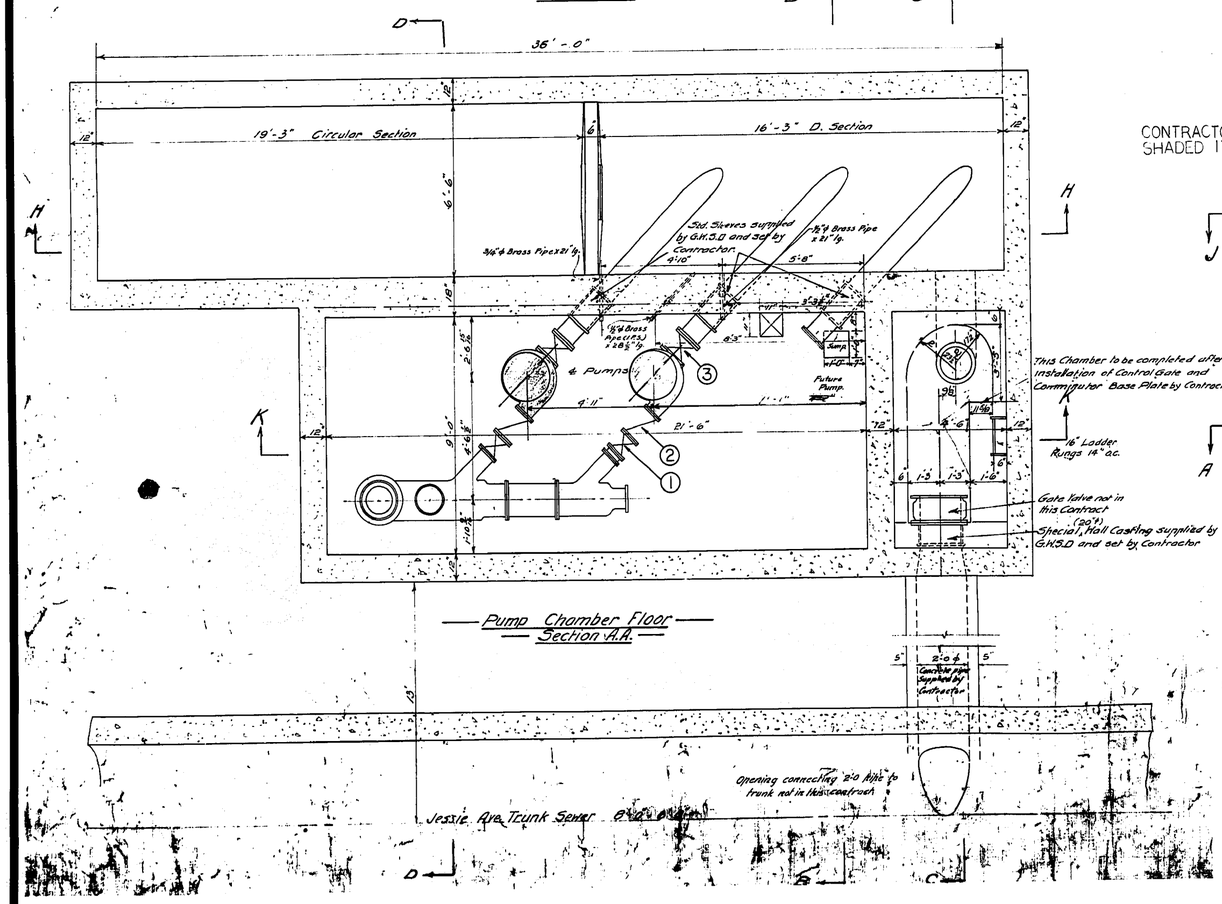


EXISTING VALVE SIZES

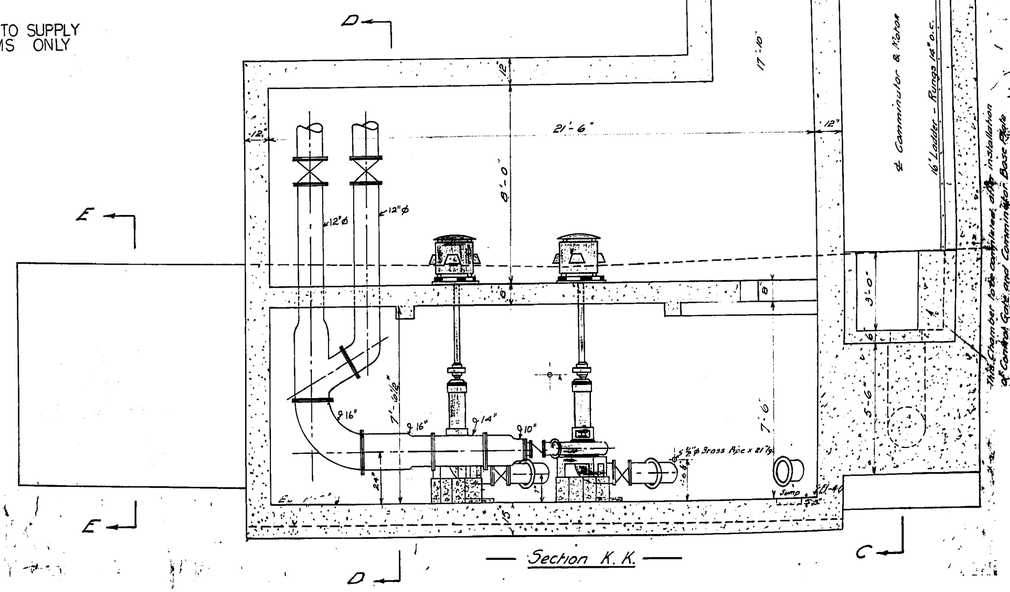
1. 6" CRANE Gate Valve
2. 6" CRANE Check Valve
3. 8" McAVITY Gate Valve

FOR INFORMATION ONLY

CONTRACTOR TO SUPPLY SHADED ITEMS ONLY

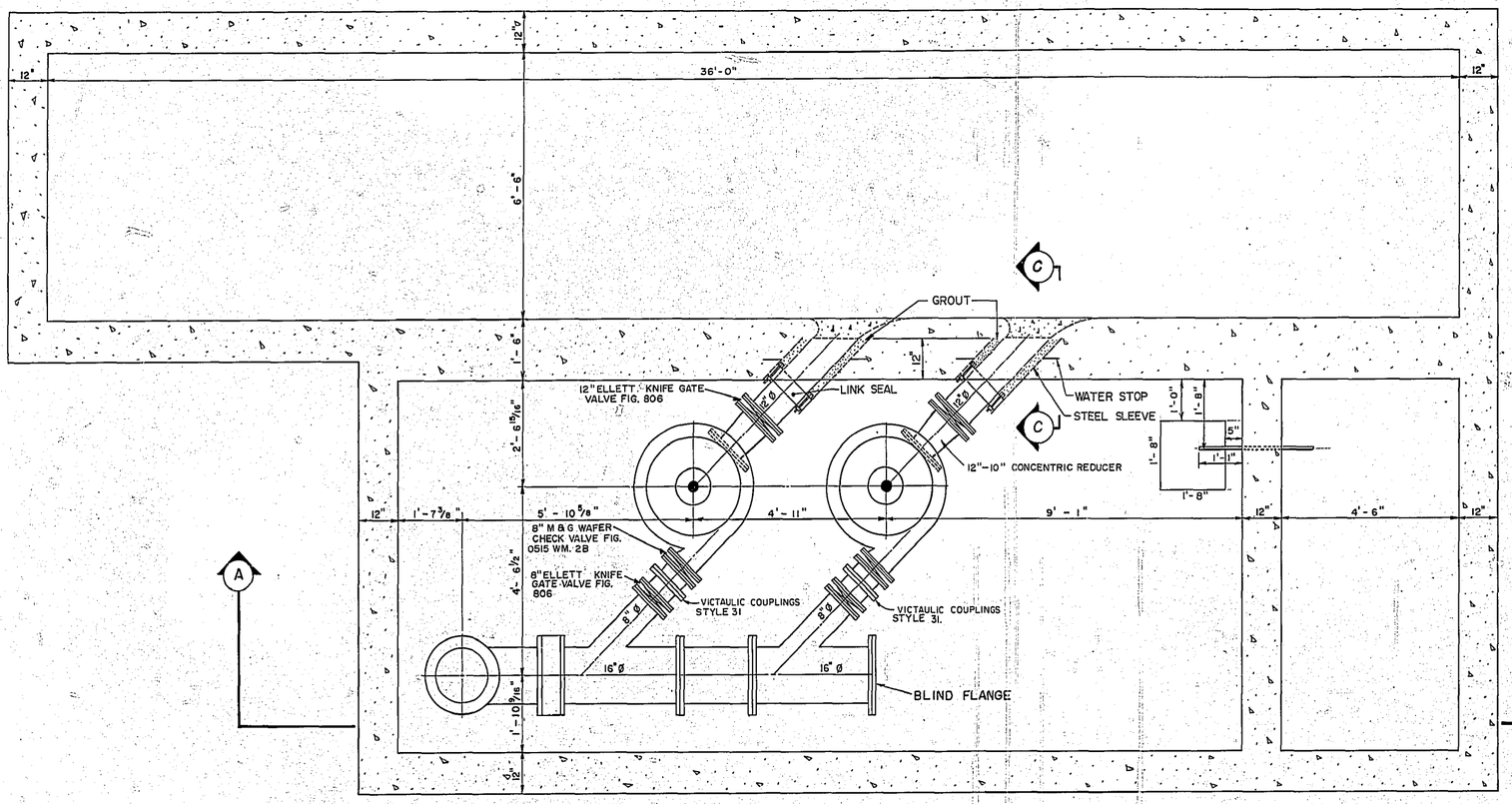


— Pump Chamber Floor —
— Section A.A —

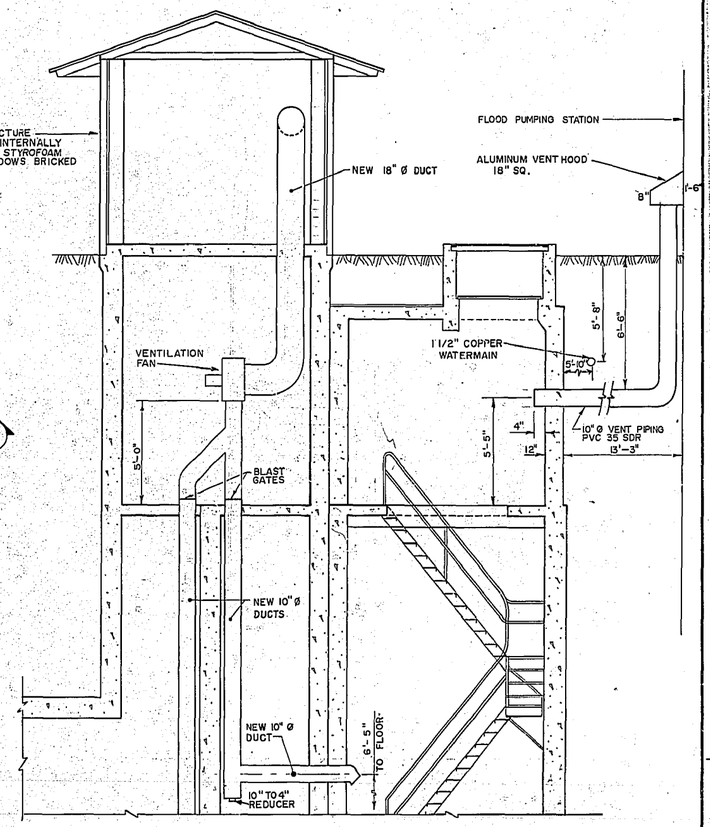


— Section K.K —

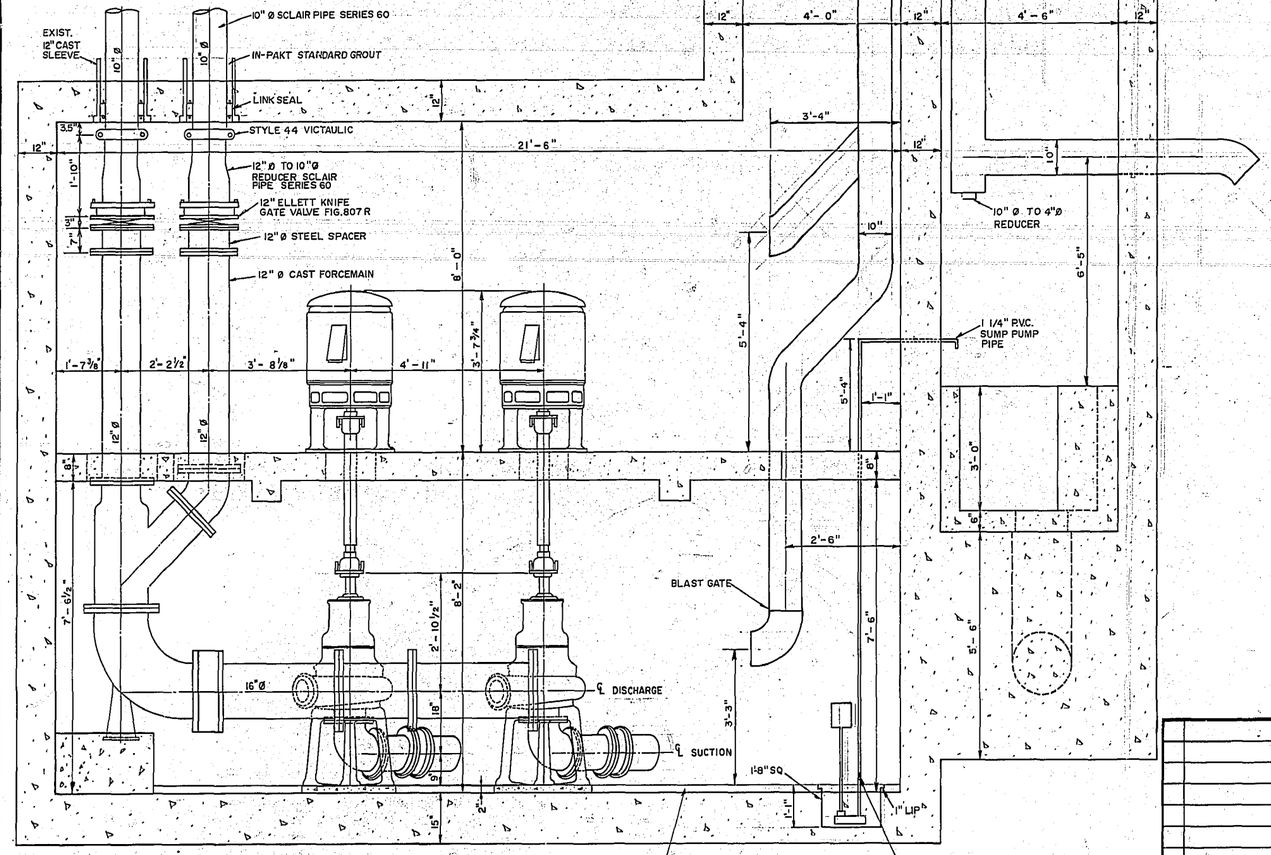
DESIGNED BY ENN	THE CITY OF WINNIPEG	JESSIE PUMP STN. PUMP REPLACEMENT
CHECKED BY DATE	WORKS & OPERATIONS DEPARTMENT	DATE 1980 05 25
APPROVED BY DATE	WATERWORKS, WASTE & DISPOSAL DIVISION	SCALE 3/8" = 1' DRAWING NO. 998



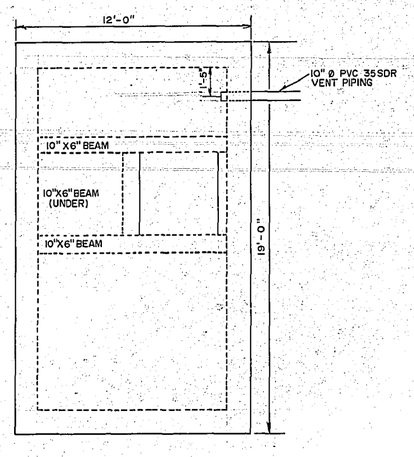
PUMP CHAMBER FLOOR
SCALE: 1/2" = 1'-0"



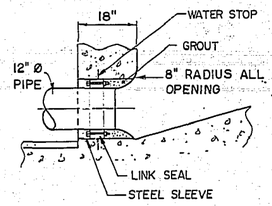
SUPERSTRUCTURE
SCALE: 1/4" = 1'-0"



SECTION A-A
SCALE: 1/2" = 1'-0"



TOP VIEW COMMINUTOR CHAMBER
SCALE 1/4" = 1'-0"



SECTION C-C
SCALE: 1/2" = 1'-0"

AS BUILT
D. Sett — SURVEY
E.A. Sorokowski — ENGINEERING
JAN. 3/86 — DATE

NOTES
- ALL VALVES WITH FLANGES ARE A.S.A. 125 LB. STD.
- ALL C.I. PIPES WITH FLANGES ARE A.S.A. 125 LB. STD.
- FOR INFORMATION ON PUMPS, MOTORS & FANS SEE LIBRARY FILE P-41
- ALL DUCT WORK GALVANIZED STEEL 26 GA.

For Electrical see drawing no. 41-FS-1-1

NO.	REVISIONS	DATE	APP.
1	REVISED TO AS BUILT	FEB 84	MD

PROVINCE OF MANITOBA — E.A. SOROKOWSKI — Aug. 25 — REGISTERED PROFESSIONAL ENGINEER
ENGINEER'S SEAL

WORKS & OPERATIONS DIVISION
WATERWORKS, WASTE & DISPOSAL DEPARTMENT

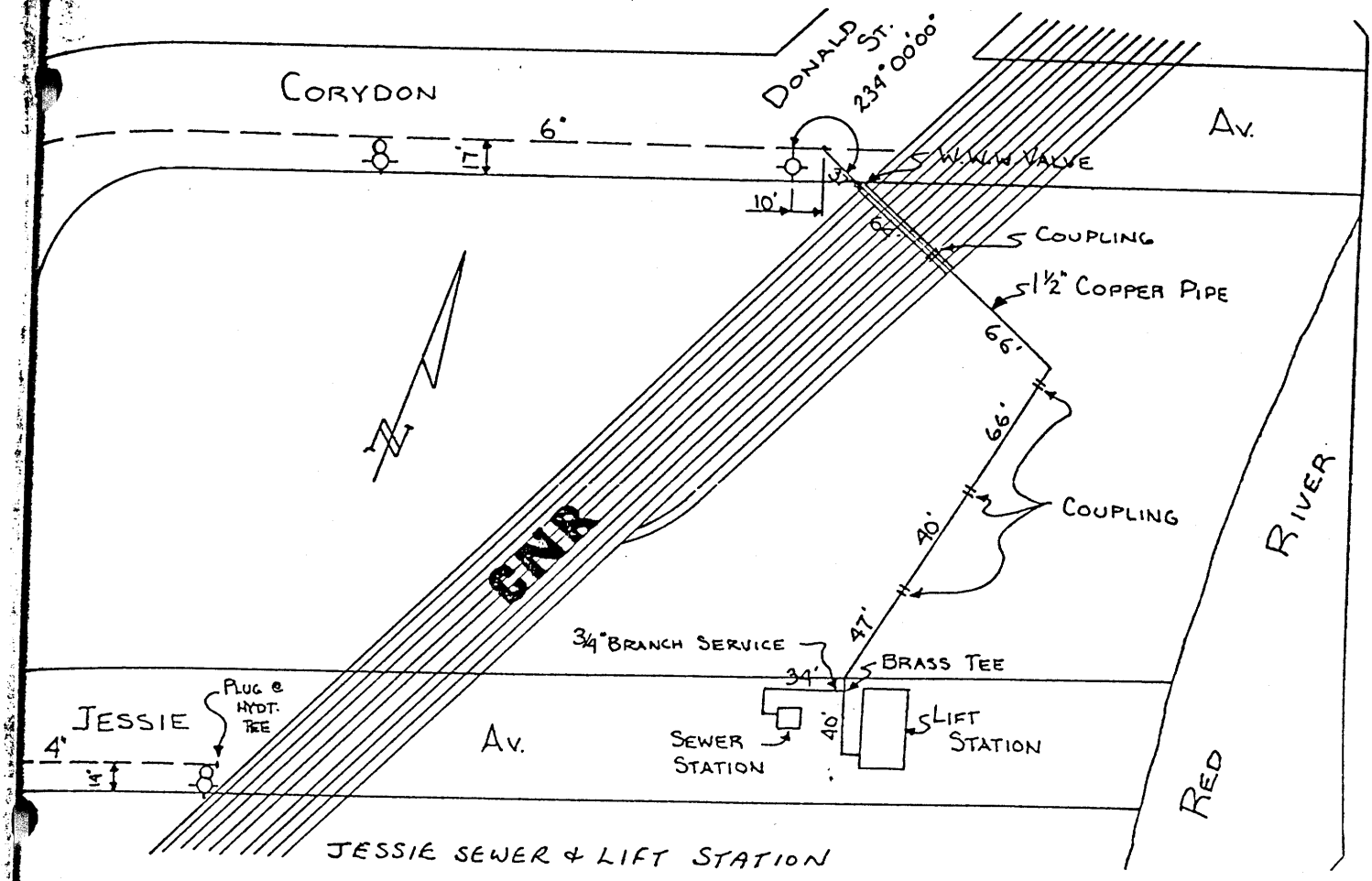
DESIGNED BY:	DRAWN BY:
J.E.	T.M.
CHECKED BY:	DATE:
R.A.S.	
APPROVED BY:	DATE: Aug 25/82

THE CITY OF WINNIPEG
WORKS & OPERATIONS DEPARTMENT

JESSIE AVENUE PUMPING STATION
INSTALLATION OF NEW PUMPS & PIPING

RELEASED FOR CONSTRUCTION — DATE: Aug 25/82
SCALE: AS SHOWN
DRAWING NO: 1060

MICROFILMED JAN 1986



Jessie Pumping Station
watermain SERVICE

D-8372

FORM D 1

GREATER WINNIPEG SANITARY DISTRICT

Filmed 1965

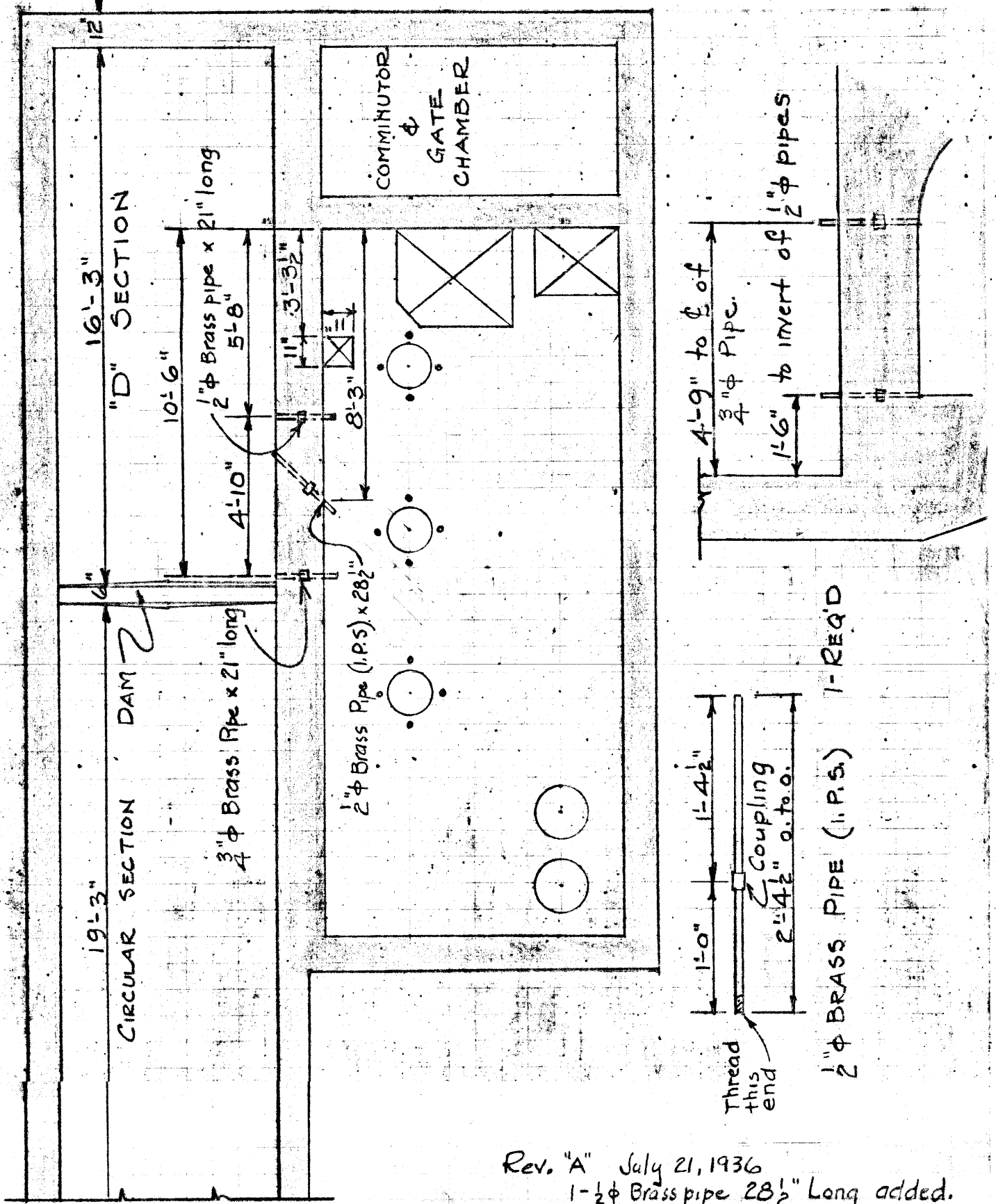
FILE NO.

SUBJECT JESSIE AVE PUMPING STATION DATE July 15 1936

SHEETS NO. M-37

COMPUTED BY [illegible] CHECKED BY

MADE IN CONNECTION WITH Location of 11"x11" hole; ½ϕ & ¾"ϕ pipe; "D" Section.



Rev. "A" July 21, 1936
1-½ϕ Brass pipe 28½" Long added.

FORM D 1

GREATER WINNIPEG SANITARY DISTRICT

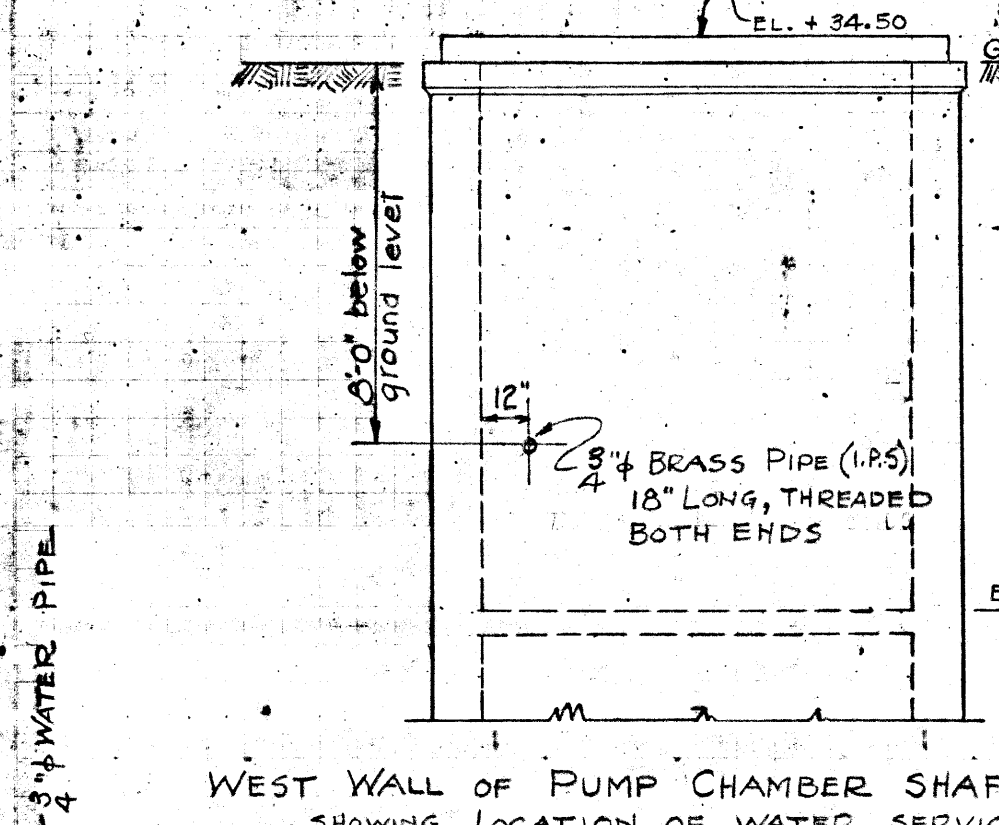
FILE NO.

SUBJECT JESSIE AVE PUMPING STA Nº 4 DATE JULY 29 1936

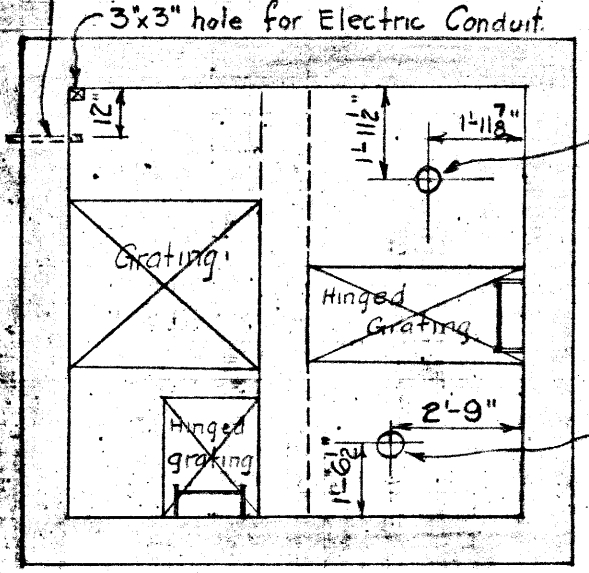
SHEETS NO. M-49

COMPUTED BY F.L.A. CHECKED BY Micro-Filmed 1965

MADE IN CONNECTION WITH LOCATION OF 3/4"ϕ WATER CONNECTION; SIZE HOLES FOR COMMINUTOR & GATE VALVE SHAFT & STEM.

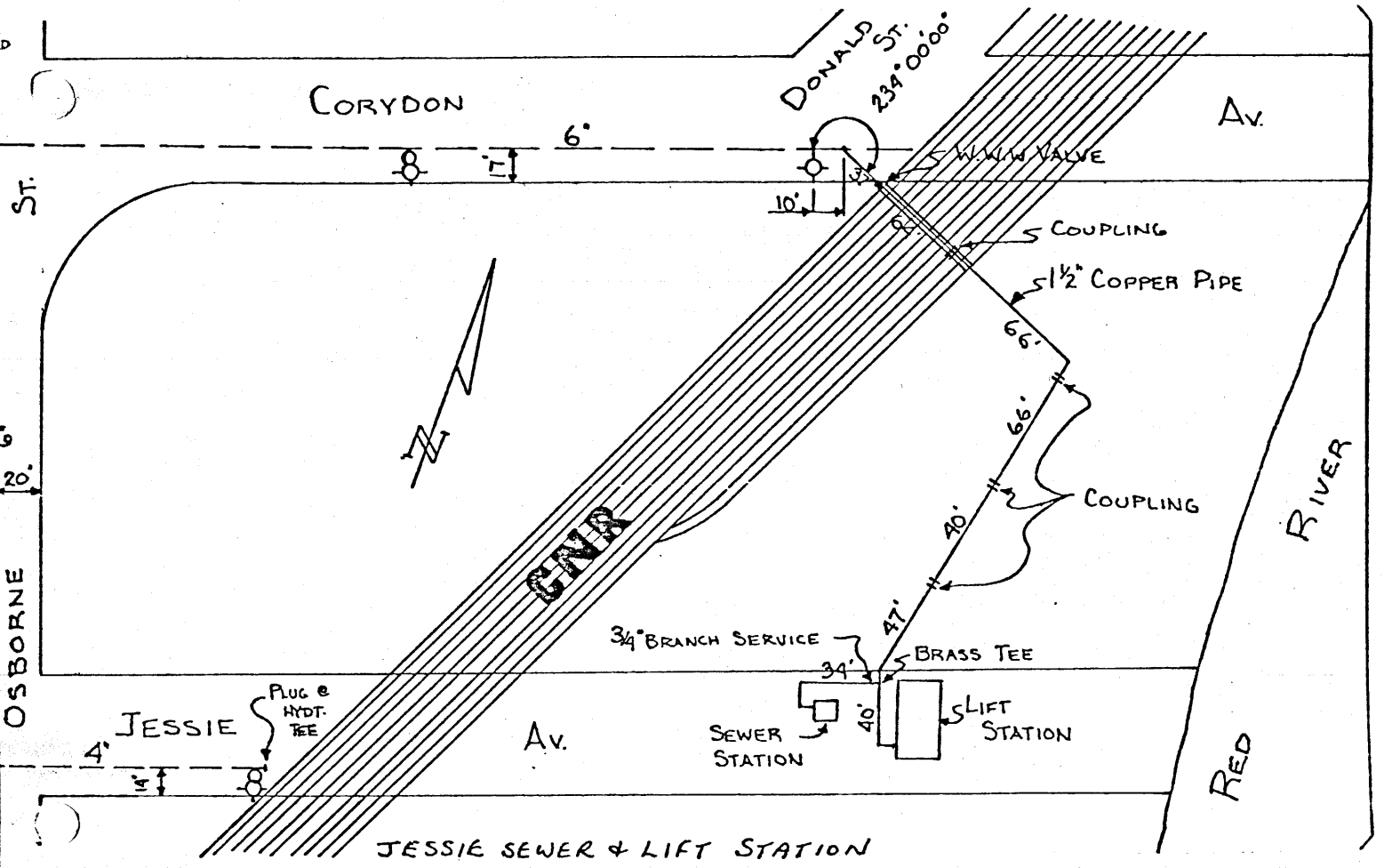


WEST WALL OF PUMP CHAMBER SHAFT
SHOWING LOCATION OF WATER SERVICE CONNECTION



NOTE:
Leave 3"x3" hole in ground floor slab directly above corresponding hole in Platform at EL. +22.5, for Electric Conduit.

PLAN OF PLATFORM AT ELEV. +22.5


CORYDON
AV.
DONALD ST.
234°00'00"
6'
W.W.W VALVE
10'
COUPLING
1½" COPPER PIPE
66'
66'
COUPLING
40'
47'
RIVER
20'
OSBORNE
ST.
CNR
¾" BRANCH SERVICE
34'
BRASS TEE
PLUG @ HYDT. TEE
JESSIE
AV.
4'
SEWER STATION
40'
LIFT STATION
RED
JESSIE SEWER & LIFT STATION

221.745 DATUM

235·000
234·000
233·000
232·000
231·000
230·000
229·000
221·000
220·000

PUMPING STATION
LIMIT OF CONTRACT
APPROX. GROUND PROFILE
2-300-Ø C.I. FORCEMAIN at 0.252 %
LINED WITH 250 Ø SERIES 60 POLYETHELENE SCLAIRE PIPE
INV. 230.381
INV. 230.407
INV. 229.939
INV. 229.830
INV. ELEV. OF P.S. 220.145
0+00 EAST WALL OF P.S.
0+03.94 END OF FLAT P.S. WALL ALIGN.
0+03.45 WITH FORCEMAIN
0+69.95 P.I. 8 45° BENDS
1+00
2+00
2+42.008 P.I.
2+55.599 P.I. & MH.
2+71.266 P.I.
3+00
MH. INV. 229.939

GROUND ELEV. 232.32
TO SURFACE
℄ PIPE ELEV. 230.416
300 CAST IRON FORCEMAIN CUT AWAY AS REQUIRED
250 POLYETHYLENE PIPE
300 x 600 SLEEVE
IN-PAKT STANDARD GROUT
LINK SEAL
FLOOR ELEV. 225.724
300
89
STYLE 44 VICTAULIC
300 to 250 REDUCER SCLAIR PIPE SERIES 60
559
76
ELEV. 225.05
175
300 ELLETT KNIFE GATE VALVE FIG. 607 R
300 STEEL SPACER
300 CAST IRON PIPE
PIPING FROM VALVE UP REPLACED WITH POLYETHYLENE PIPING
PIPING FROM VALVE DOWN REMAINED

DETAILS OF PIPING AT LIFT STATION
(TYPICAL FOR BOTH FORCEMAINS)
SCALE : N.T.S.

CORYDON AVE.
DONALD STREET
Mc MILLAN AVE.
SCOTT ST.
MATCH LINE
20.117
EXIST. 375 Ø SEWER
EXIST. 150 WM.
5.18
10.058
6.10
69 kv. HYDRO CABLES
24.384
2100 mm Ø CONC. SHAFT
0+69.915 P.I.
Δ = 135°
1.52
HYDRO EASEMENT
C.N.R. TELEPHONE BOX
CAGE WIRE FENCE ALONG PROPERTY LINE
2-300 Ø C.I. FORCEMAIN TO BE LINED WITH 250 Ø POLYETHYLENE SERIES 60 SCLAIRE PIPE
1.98
2.50
2+42.008 P.I.
RAD. 560.083
Δ = 164° 47' 51"
2+55.599 P.I. & MH.
RAD. 545.720
FOR DETAIL OF M.H. SEE DRWG. 82
2+71.266 P.I.
RAD. 589.915
Δ = 168° 46' 32"
30.175
CANADIAN NATIONAL RAILWAY
2.00 SQ. TIMBER SHORED SHAFT EXTENDED TO 2.00 x 15.25 SHAFTS
JESSIE AVE.
W. WALL ALIGNMENT 0+03.45
END OF FORCEMAIN 0+03.94
END OF JESSIE P.S. 0+06.00
EXIST. CONC. SEWER
FORCEMAIN 0.585 CENTRE TO CENTRE
2-300 Ø C.I. PIPE LINED WITH 250 Ø POLYETHYLENE SERIES 60 SCLAIRE PIPE
EXIST. 19mm COPPER WM.
EXIST. 38 mm COPPER WM.
FOR JESSIE STA. UPGRADING TO PUMPS & PIPING SEE DRWG. 1060
JESSIE P.S.
WIER
GATE
FLOOD PUMPING STATION
ECPTS TO RED RIVER OUTFALL
2.00 SQ. TIMBER SHORED SHAFT EXTENDED TO 2.00 x 15.25 SHAFT
EXIST. M.T.S.

NOTE:
ALL CONNECTIONS AT LIFT STATION FLANGED
ALL CONNECTIONS OF THE POLYETHLENE LINER AT MANHOLES AND SHAFTS MADE WITH ROBAR FULL CIRCLE STAINLESS STEEL REPAIR CLAMPS
SPACE BETWEEN C.I. PIPE & LINER GROUTED WITH IN-PAKT STANDARD GROUT
FORCEMAINS COVERED WITH 150mm OF CONCRETE AT SHAFTS
DRAWINGS 1018 & 1019 SUPERCEDE DRAWINGS 75 & 76

AS BUILT
R.A. Sorokowski JAN. 5/85
SURVEY ENGINEERING DATE

PROVINCE OF MANITOBA R. A. SOROKOWSKI REGISTERED ENGINEER Aug. 25/82

NO.	REVISIONS	DATE	APP.
1	REVISED TO AS BUILT	05/84	MD

PROVINCE OF MANITOBA R. A. SOROKOWSKI REGISTERED ENGINEER
ENGINEER'S SEAL

DESIGNED BY: JE	DRAWN BY: TM
CHECKED BY: R.A. Sorokowski	DATE: Aug. 25/82
APPROVED BY: R.M. Libby	DATE: AUG 25/82

THE CITY OF WINNIPEG
WORKS & OPERATIONS DIVISION
WATERWORKS WASTE & DISPOSAL DEPARTMENT

JESSIE SECONDARY FORCEMAIN
STA. 0+00 - STA. 3+00

RELEASED FOR CONSTRUCTION: DATE: Aug 25/82

SCALE: HORIZ. 1:500 VERT. 1:50
DRAWING NO: 1018

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

MICROFILMED JAN. 1985