

MAN. HYDRO
TRANSMISSION LINE
R/W



RED RIVER

SOUTH BOUNDARY MAN. HYDRO
NORTH " " CITY " "

CITY HYDRO
TRANSMISSION LINE R/W

WEST SHAFT

HYDRO TRANSMISSION LINE

1-30" & 2-18" STEEL SYPHON BARRELS
(PROPOSED)

SOUTH BOUNDARY CITY HYDRO

MUN. of FORT GARRY

MANITOBA HYDRO TRANSMISSION LINE R/W

SOUTH BOUNDARY MAN. HYDRO
NORTH " " CITY " "

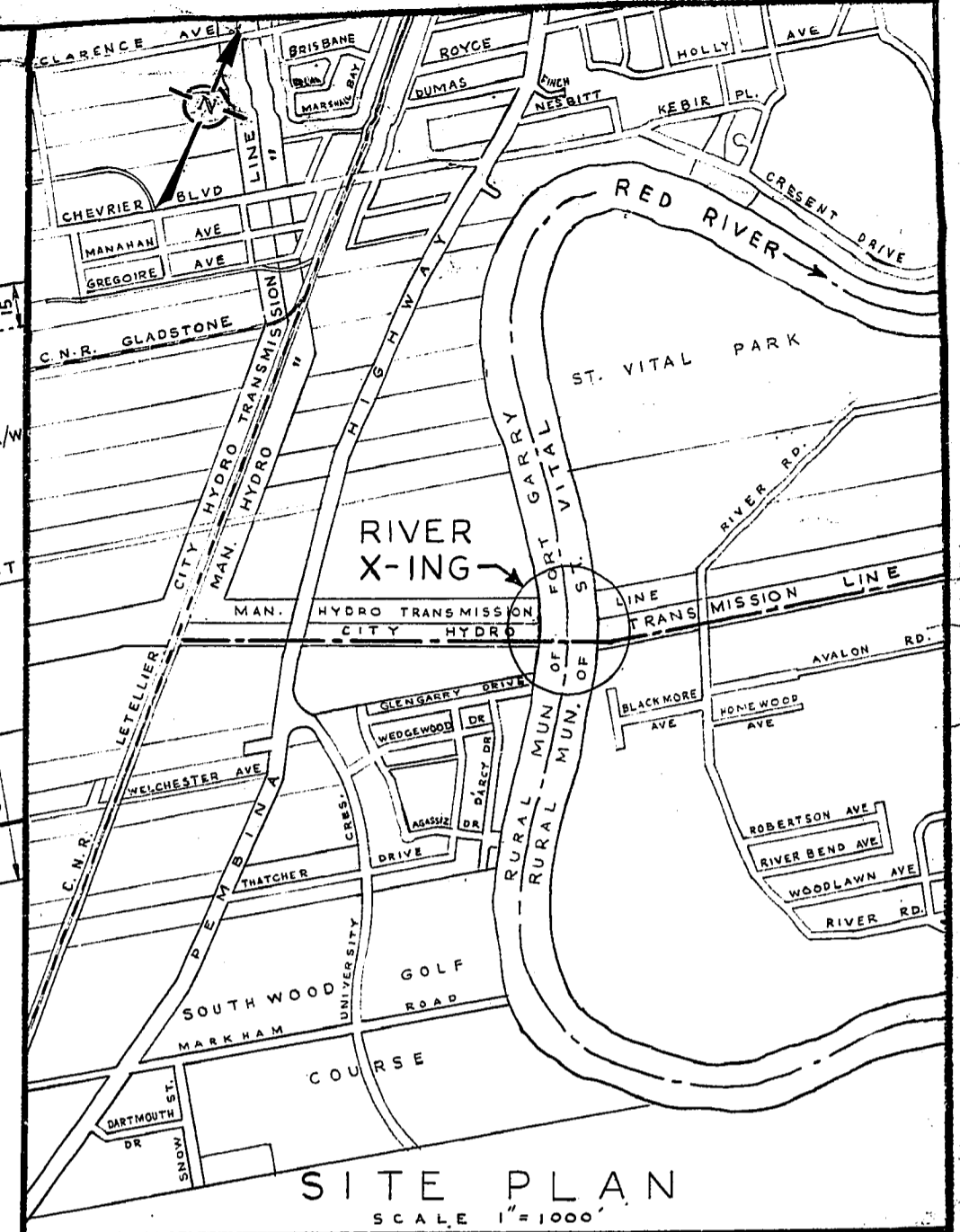
CITY HYDRO TRANSMISSION LINE R/W

24" FEEDERMAIN

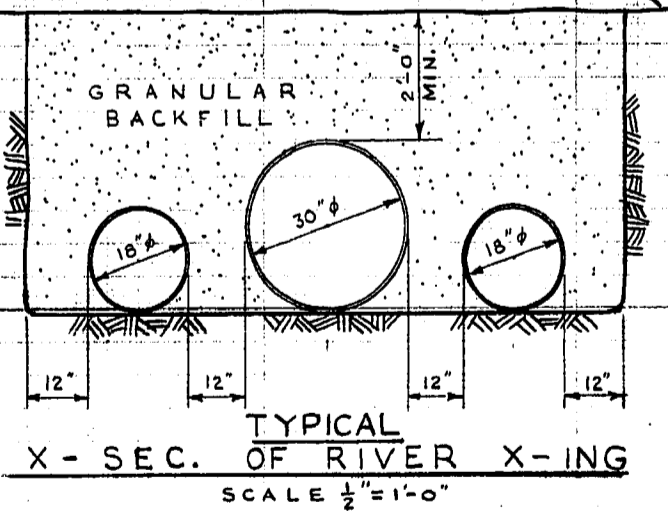
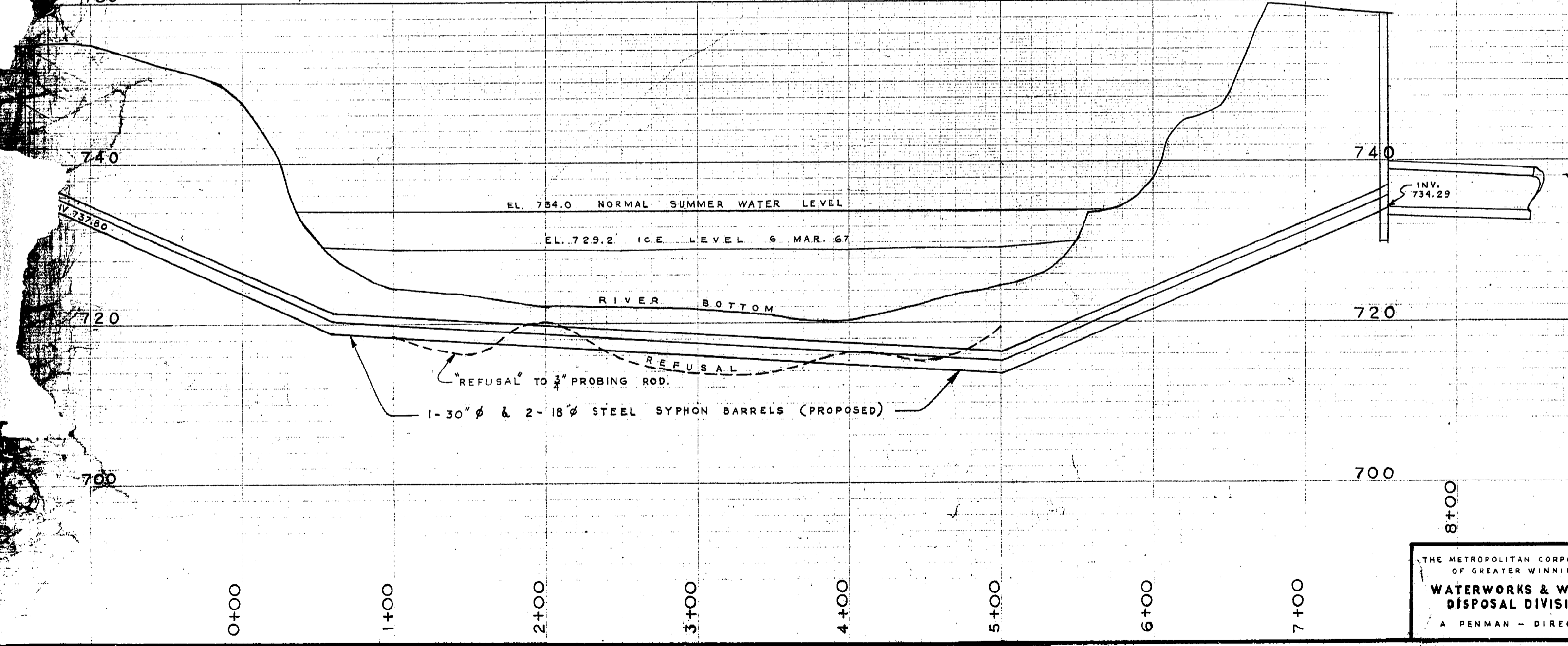
66" AQUEDUCT

EAST SHAFT

RURAL MUN. of ST. VITAL



SITE PLAN
SCALE 1"=100'

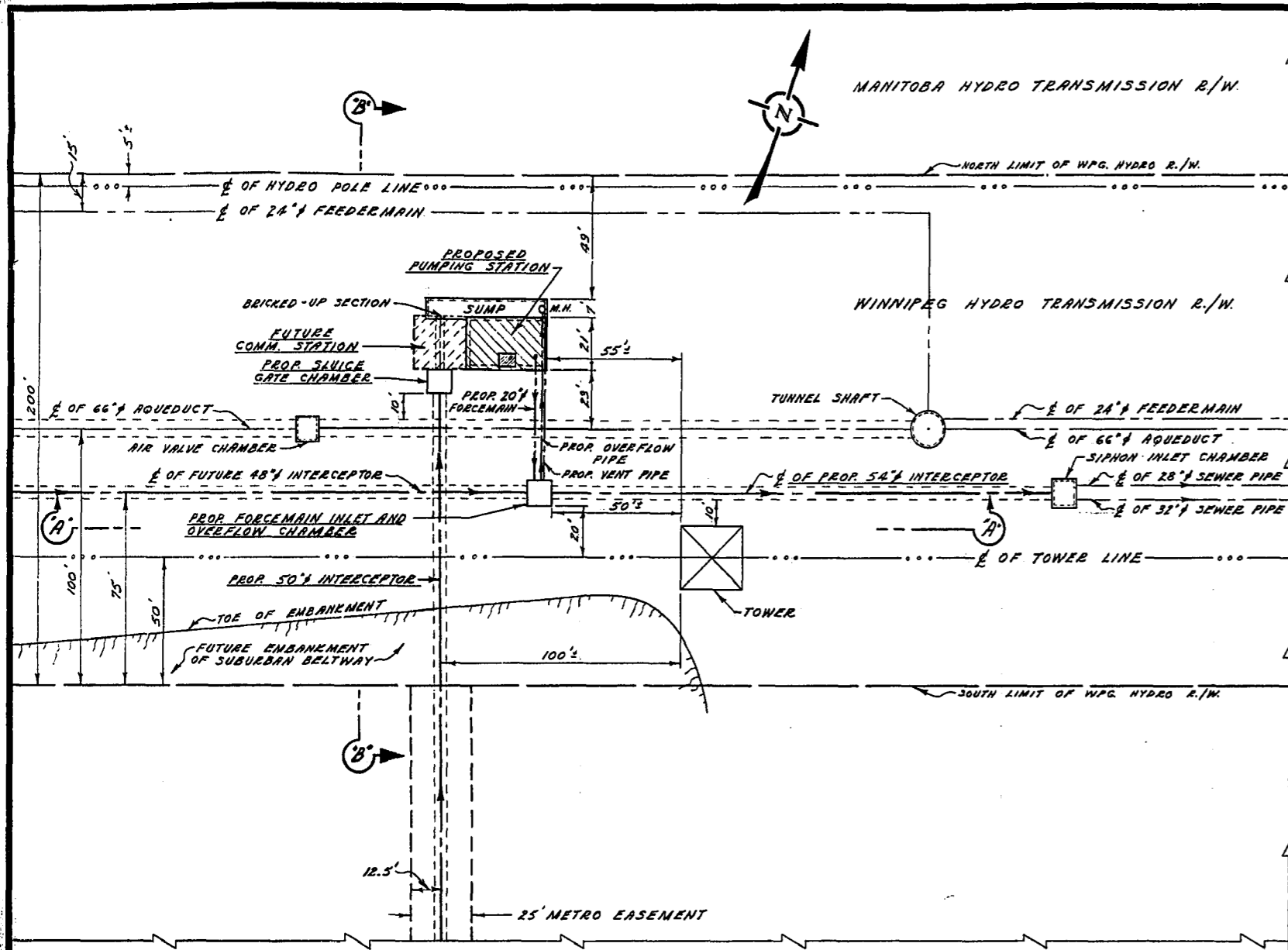


THE METROPOLITAN CORPORATION
OF GREATER WINNIPEG
**WATERWORKS & WASTE
DISPOSAL DIVISION**
A PENMAN - DIRECTOR

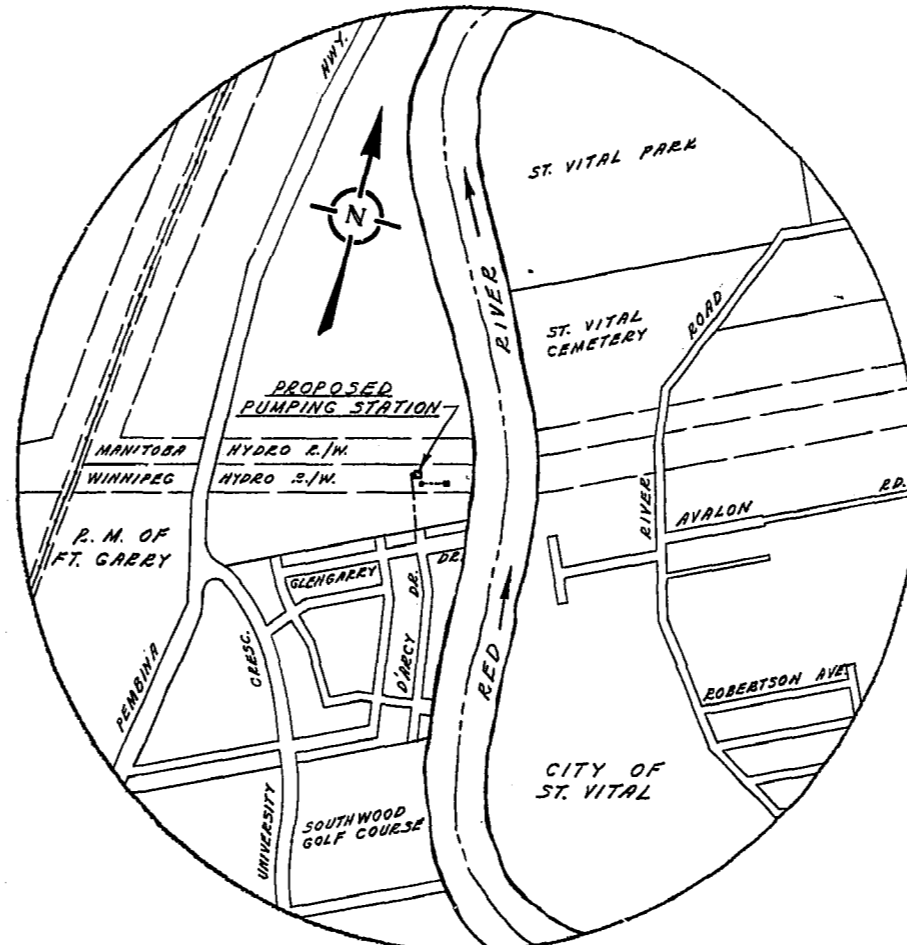
SEWAGE DISPOSAL DEPT.
**RED RIVER X-ING
FORT GARRY ~
ST. VITAL
INTERCEPTOR**

DEL. *G. Rem*
DRW. H. BURMAN DATE 2 AUG 68
ENG. DES.
ENG.
APPROVED
DRAWING NO. **647**

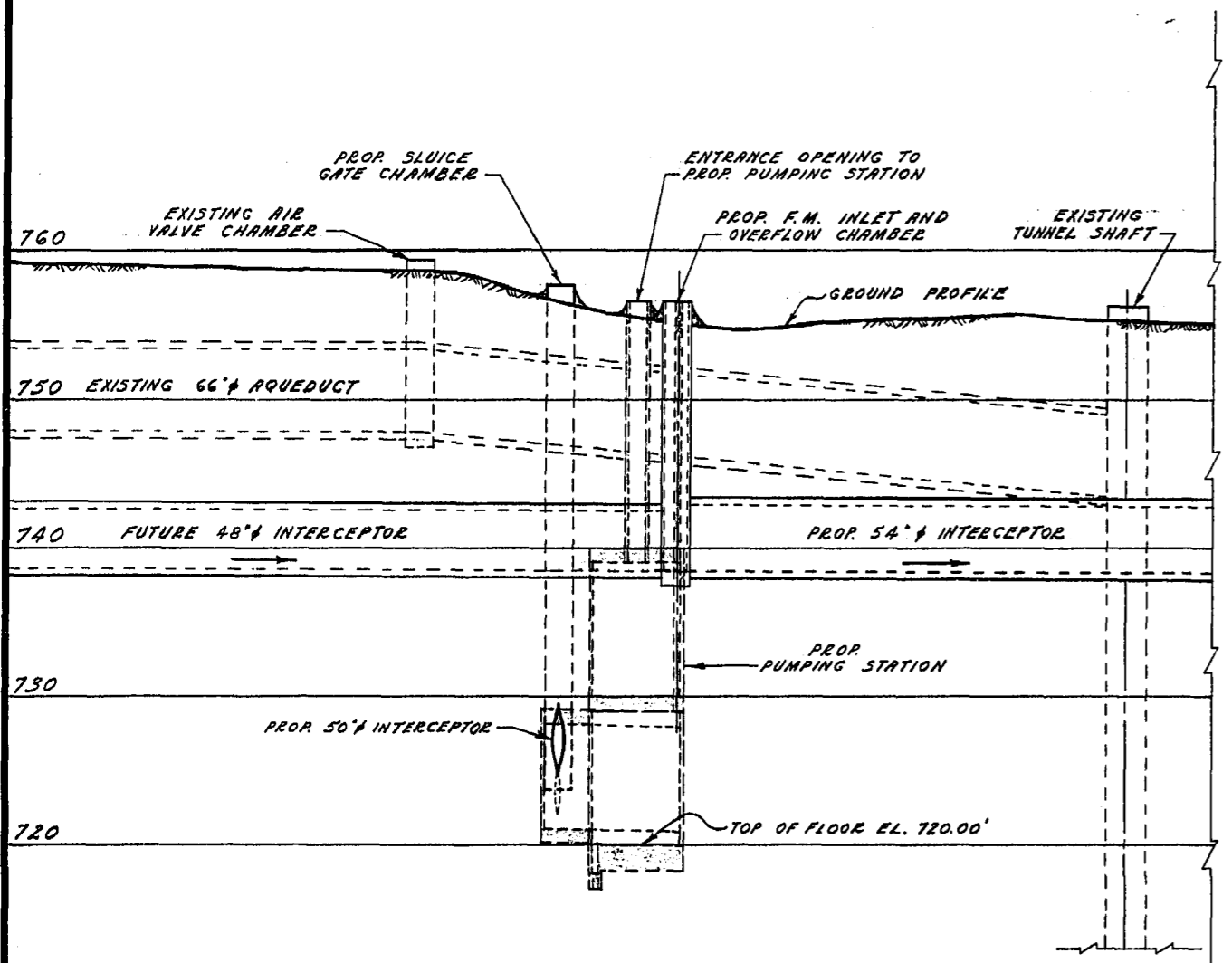
PRELIMINARY



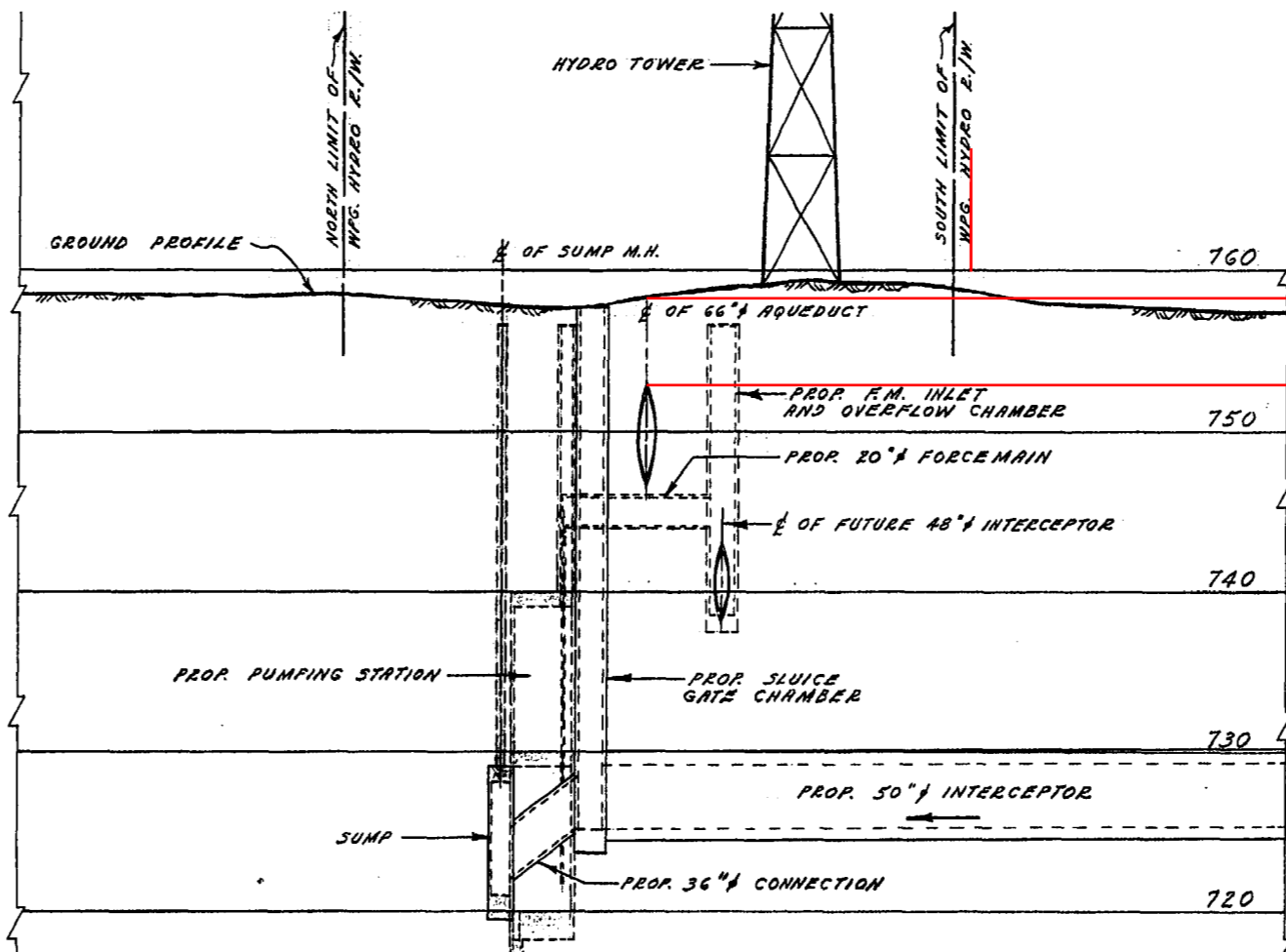
DETAILED LOCATION PLAN
SCALE - 1" = 40'



SITE PLAN
SCALE - 1" = 1,000'



SEC. 'A' - 'A'
SCALE - HOR. - 1" = 40' VERT. - 1" = 8'



SEC. 'B' - 'B'
SCALE - HOR. - 1" = 40' VERT. - 1" = 8'

cover on Aqueduct +/- 2 m

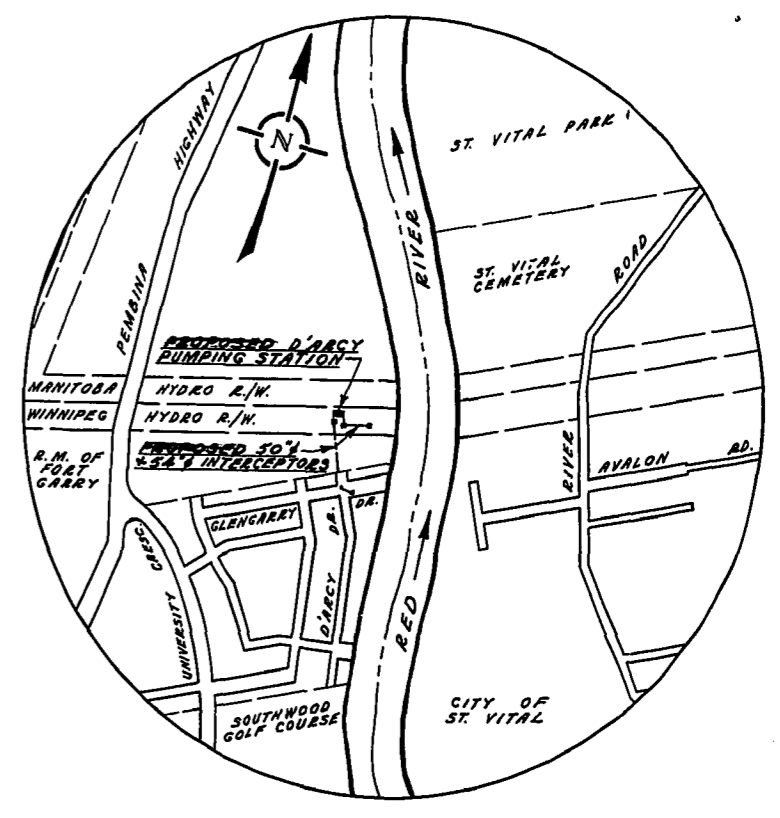
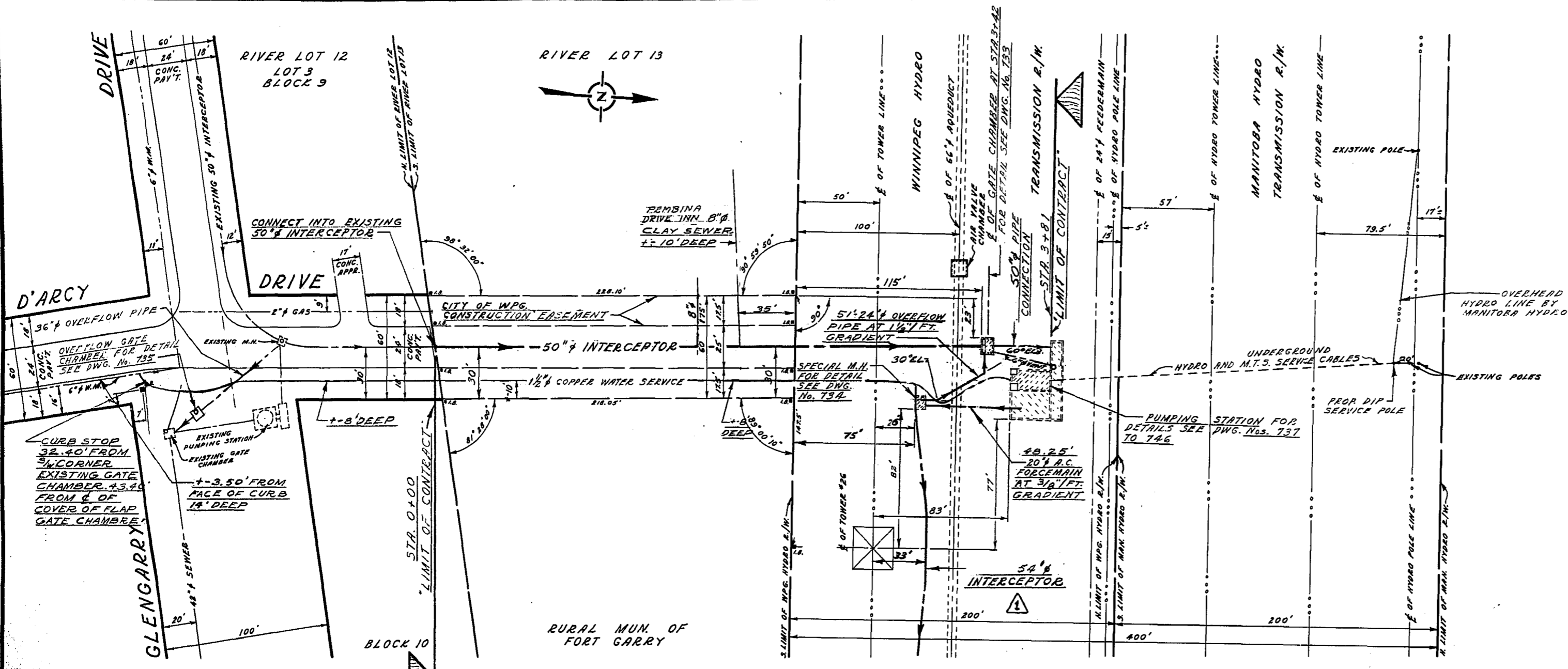


THE METROPOLITAN CORPORATION
OF GREATER WINNIPEG
**WATERWORKS & WASTE
DISPOSAL DIVISION**
A. PENMAN - DIRECTOR

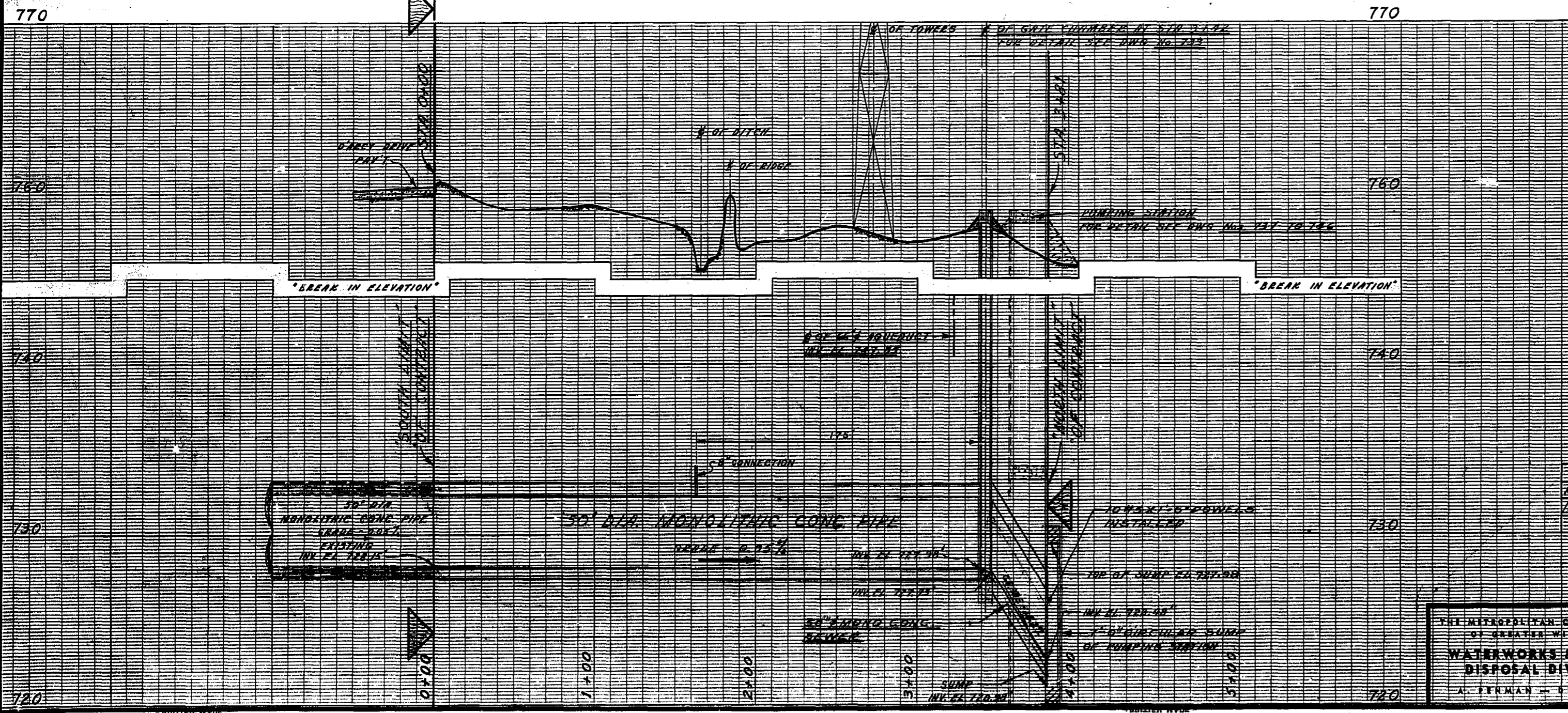
SEWAGE DISPOSAL DEPT.
**D'ARCY PUMPING STATION
DETAILED
LOCATION PLAN**

DES. *Ed* CH'KD. *J.T.*
DRN. *S.K.* DATE *MAY 11 1971*
ENG. DES. *R. Kelly*
ENG. OPER. *James En*
APPROVED *B.C. Penman*

SCALE
AS NOTED
DRAWING NO.
712

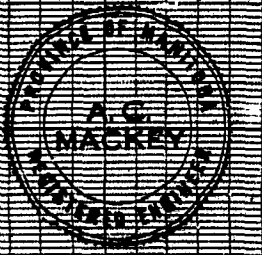


SITE PLAN
SCALE - M.T.S.



LOCATION OF UNDERGROUND UTILITIES AS SHOWN ARE BASED ON RECORD DRAWINGS AND FIELD SURVEY. THE CITY OF ST. VITAL IS NOT RESPONSIBLE FOR THE LOCATION AND DEPTH OF UTILITIES SHOWN ON THIS DRAWING. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF UTILITIES SHOWN ON THIS DRAWING BEFORE ANY CONSTRUCTION WORK IS UNDERTAKEN.

NO.	REVISIONS	DATE BY
1	ALIGNMENT, GRADE, COVER OF 50" MONOLITHIC CONCRETE PIPE	10/20/74

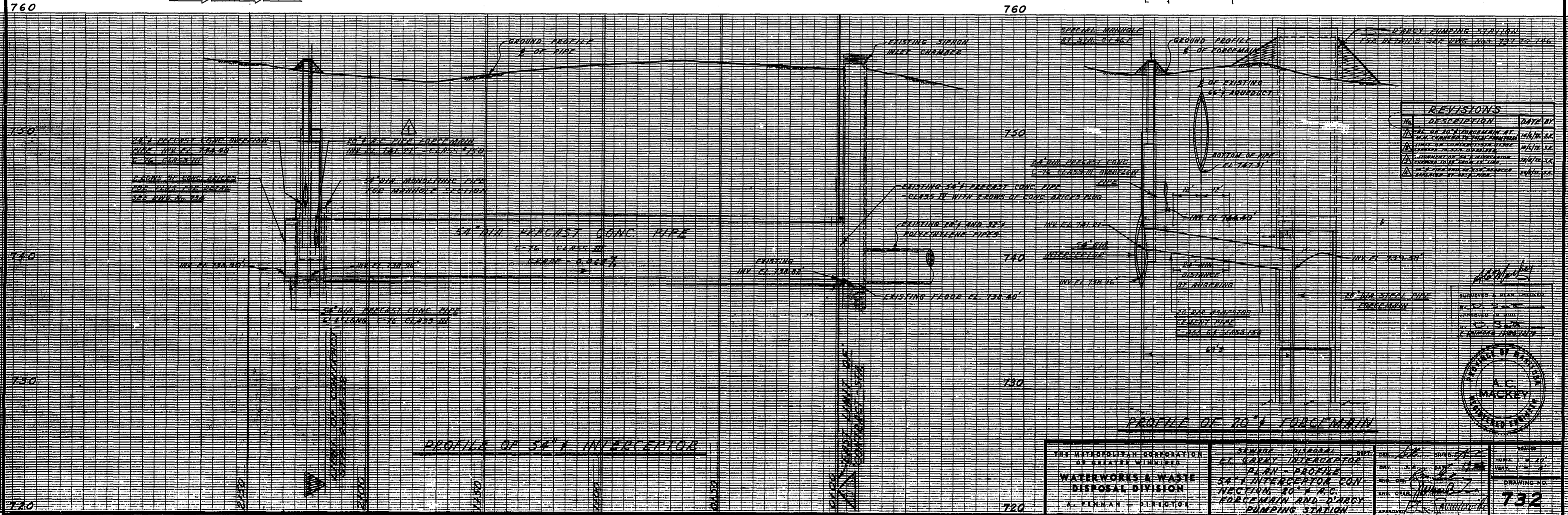
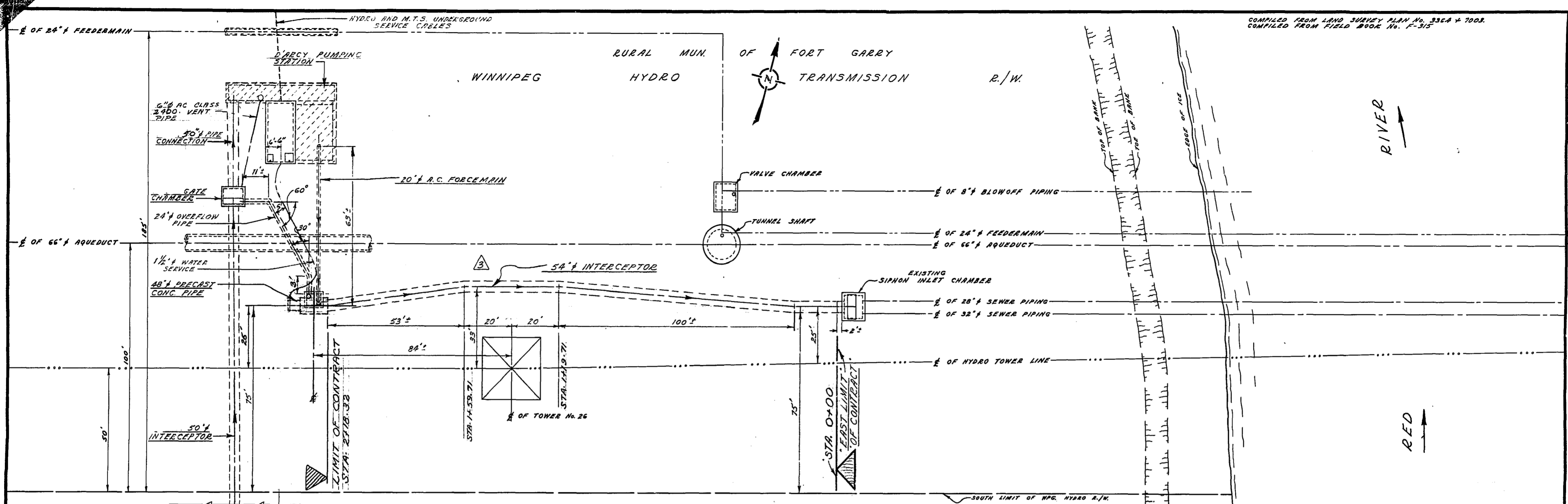


THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS & WASTE DISPOSAL DIVISION
A. FENMAN - DIRECTOR

SEWERAGE DIVISION
ST. VITAL INTERCEPTOR
50" INTERCEPTOR
EXTENSION TO
D'ARCY PUMPING STATION
PLAN - PROFILE
STA. 0+00 TO STA. 3+81

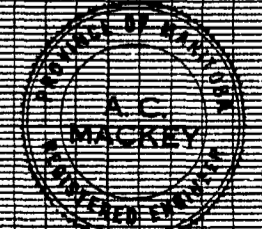
DATE: 10/20/74
DRAWN BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

731



REVISIONS	
NO.	DESCRIPTION
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2	ADD 24\"/>
3	ADD 24\"/>
4	ADD 24\"/>
5	ADD 24\"/>

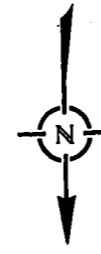
APPROVED
 SUPERVISOR
 CHECKED
 DRAWN
 DATE



PROFILE OF 20" FORCE MAIN

THE MUNICIPAL CORPORATION OF GREATER WINNIPEG WATERWORKS & WASTE DISPOSAL DIVISION A. FENHAM DIRECTOR	SEWERAGE DISPOSAL AT FORT GARRY INTERCEPTOR PLAN - PROFILE 54" INTERCEPTOR CONNECTION 20" R.C. FORCE MAIN AND D'ARCY PUMPING STATION	DATE: 11/22/52 SHEET: 20 OF 20 DRAWING NO.: 732
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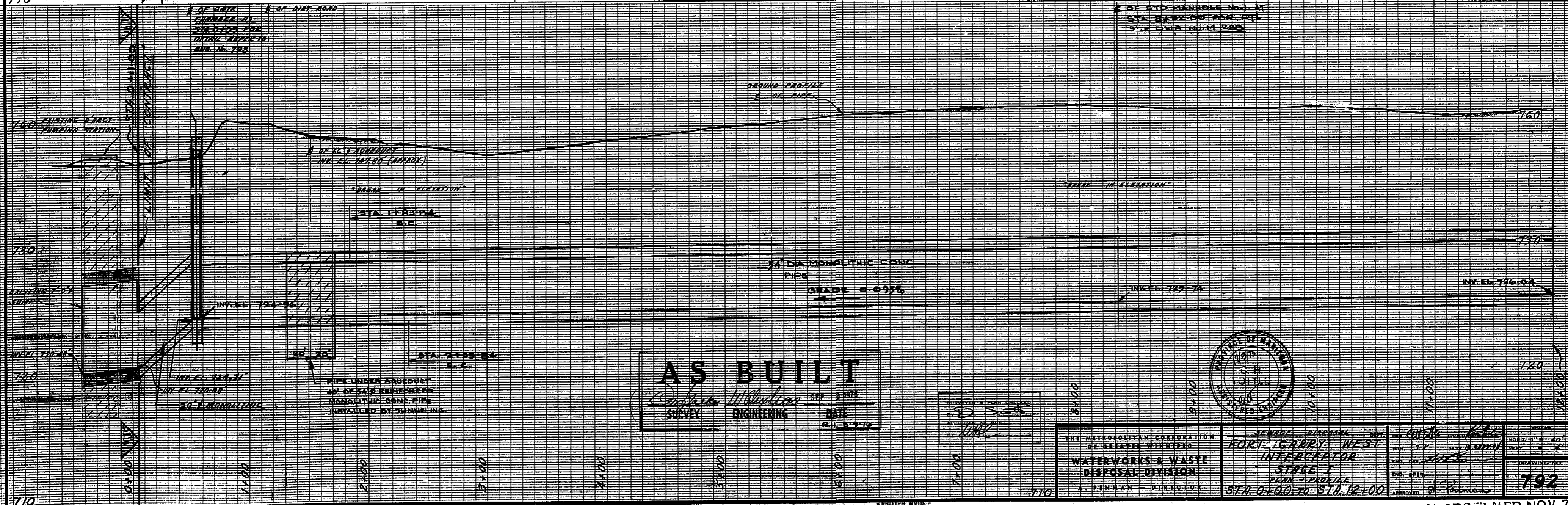
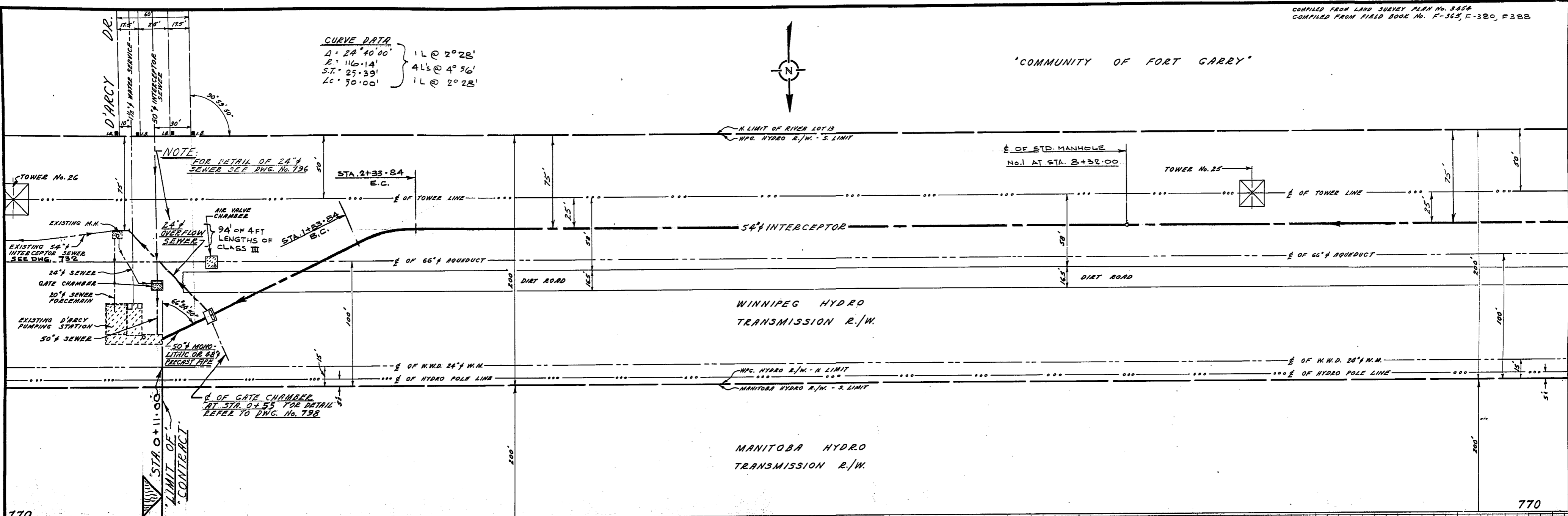
'COMMUNITY OF FORT GARRY'



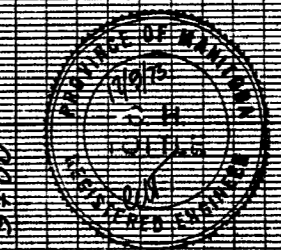
CURVE DATA
 Δ = 24° 40' 00"
 L = 116.14'
 S.T. = 25.39'
 Lc = 50.00'

1L @ 2° 28'
 4Ls @ 4° 56'
 1L @ 2° 28'

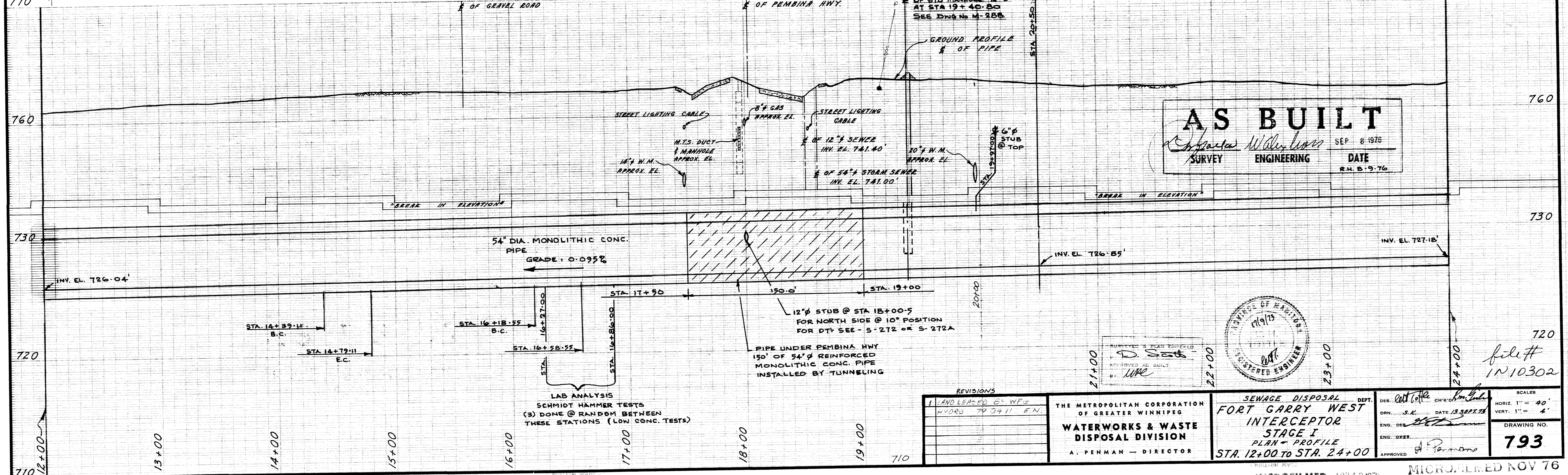
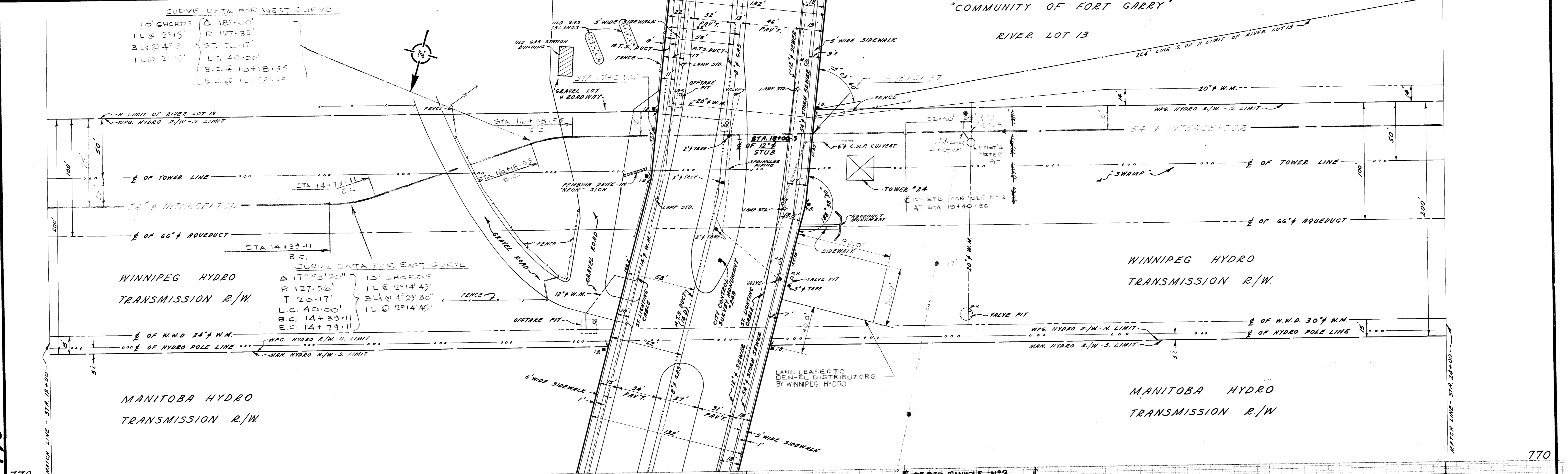
NOTE:
 FOR DETAIL OF 24" SEWER SEE DWG. No. 796



AS BUILT
 SURVEY ENGINEERING DATE SEP 8 1978
 CH 5-3-78



THE METROPOLITAN CORPORATION OF SASKATCHEWAN WATERWORKS & WASTE DISPOSAL DIVISION KENNEDY - DIRECTOR	SINKER DIVISION FORT GARRY WEST INTERCEPTOR STAGE I PLAN - PROFILE STA. 0+00 TO STA. 12+00	APPROVED: [Signature] DATE: [Date]	DRAWING NO. 792
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AS BUILT
 SURVEY ENGINEERING DATE
 SEP 6 1975
 R.H. B. '9. 76



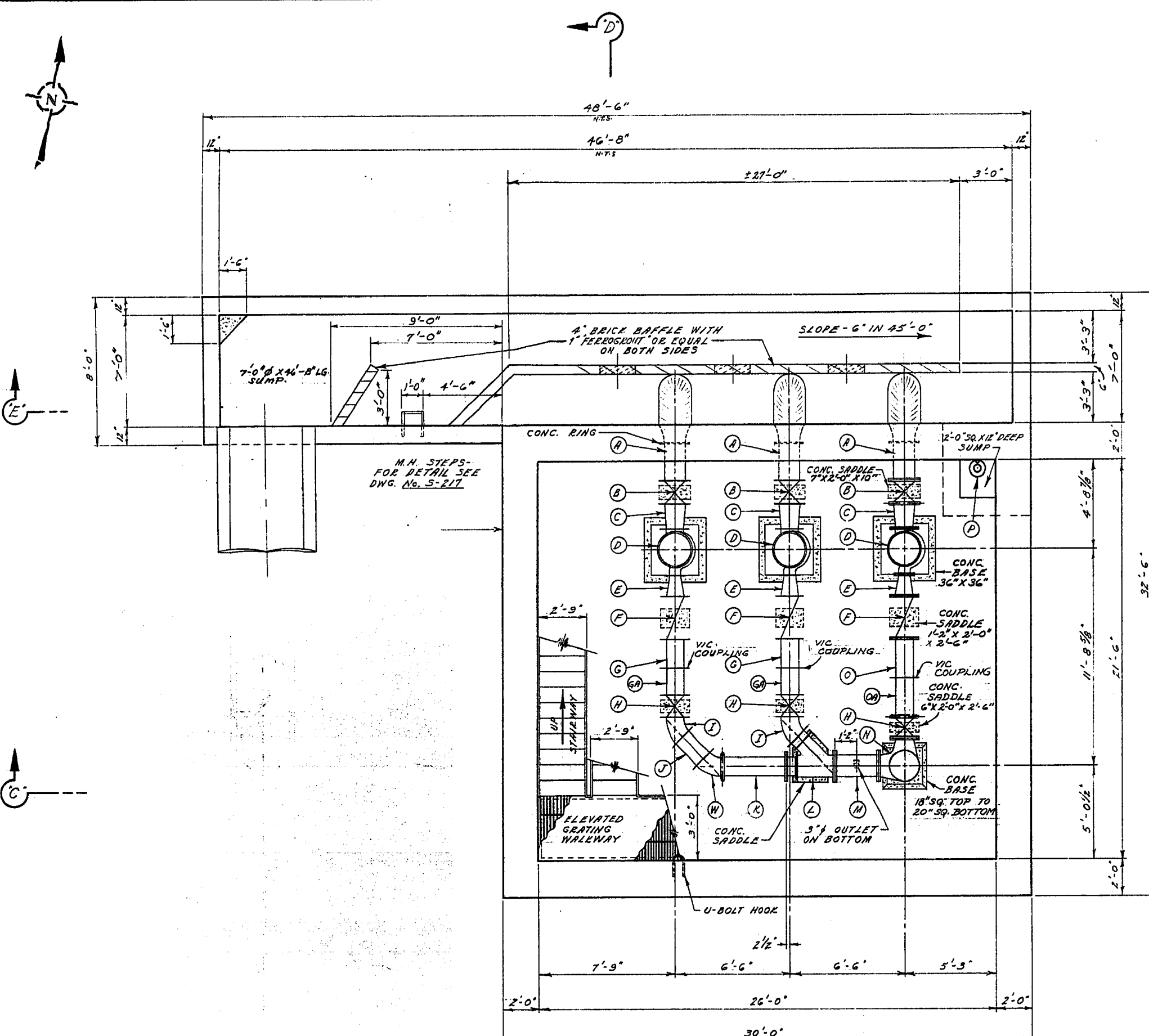
REVISIONS

1	LAND LEASED BY WFG HYDRO 7/27/77 EN.
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THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS & WASTE DISPOSAL DIVISION
 A. PENMAN - DIRECTOR

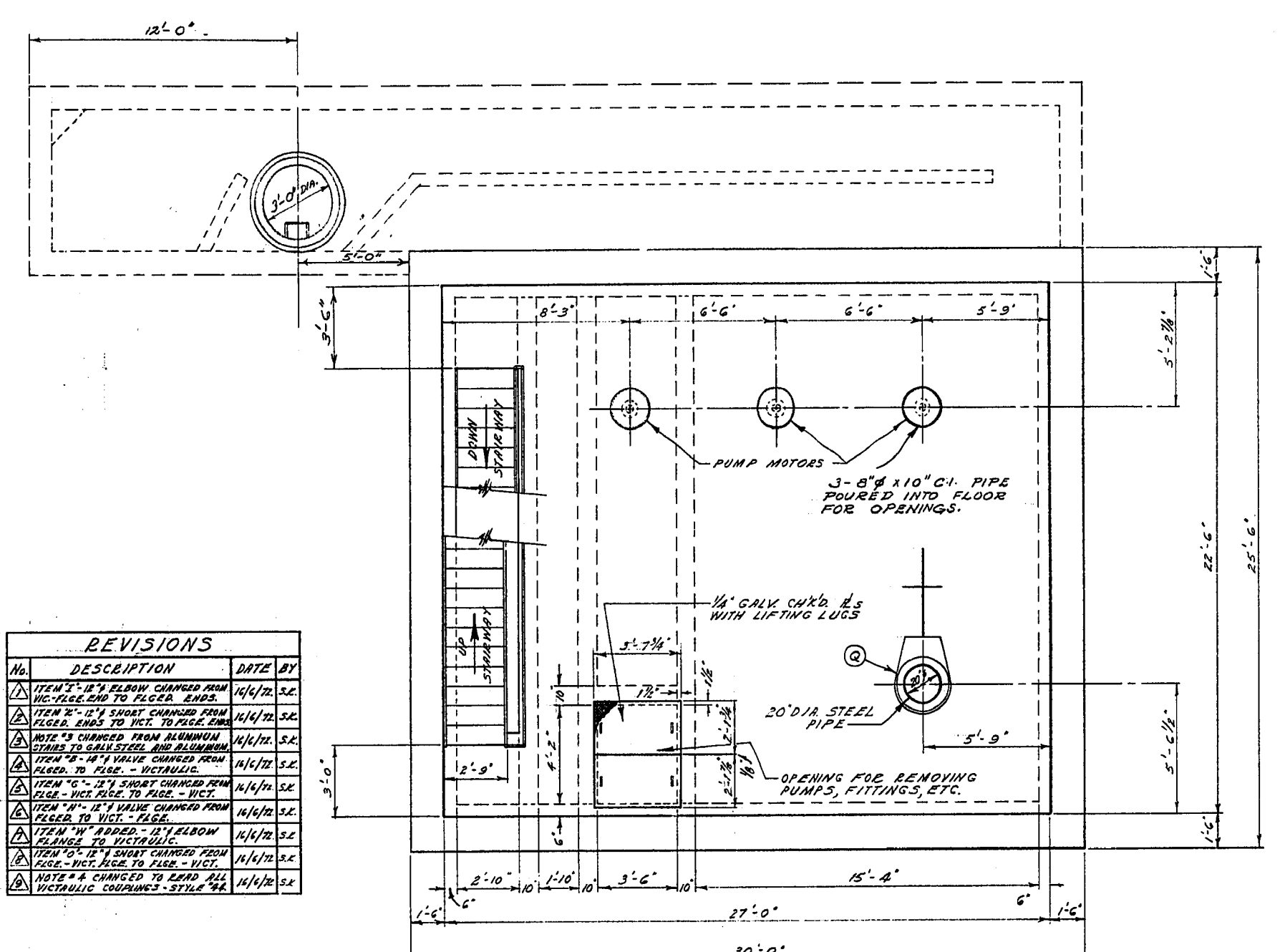
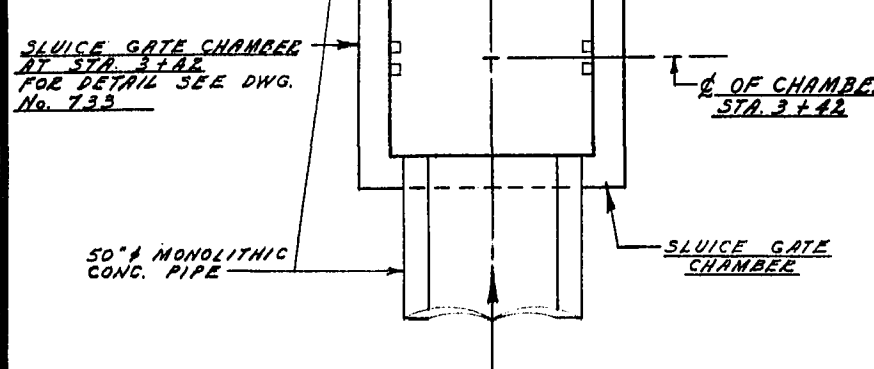
SEWAGE DISPOSAL DEPT.
FORT GARRY WEST INTERCEPTOR
 STAGE I
 PLAN - PROFILE
 STA. 12+00 TO STA. 24+00

SCALES
 HORIZ. 1" = 40'
 VERT. 1" = 4'
 DRAWING NO.
793



SEC. 'A' - 'A'
PUMP ROOM AND SUMP FLOOR PLAN

- NOTE:**
- ITEM 'P' - SUMP PUMP SPECIFICATIONS - CAPACITY - 15 U.S.G.P.M. H.P. - 1/3, VOLTS - 115, 1750 R.P.M. AND SINGLE PHASE.
 - ITEM 'D' TO BE SUPPLIED BY THE CITY OF WINNIPEG.
 - FOR DETAIL OF SEC. 'C', 'D' AND 'E' SEE DWG. No. 738
 - FOR DETAIL OF SUMP SEE DWG. S-366



SEC. 'B' - 'B'
PUMP MOTOR ROOM FLOOR PLAN

NOTES
(THESE NOTES APPLY TO ALL PUMPING STATION DWGS.)

- ALL MISC. IRON WORKS NOT GALVANIZED AFTER FABRICATION.
- ALL STAIRWAYS AND LANDINGS ARE GALV. STEEL CONSTRUCTION. STANDARD GALV. STEEL PIPE HANDRAILS AS SHOWN. THE EXCEPTION ARE THE REMOVABLE STAIRS IN THE PUMP ROOM WHICH SHALL BE OF ALUMINUM CONSTRUCTION.
- ALL VICTAULIC COUPLINGS STYLE '44'. ALL VICTAULIC FLANGES STYLE '1341'.
- REFER TO APPROVED MANUFACTURER'S DRAWING No. SK530A FOR DETAIL OF MONARCH MACHINERY LTD. - CY SERIES 8A12 & 13.8 PUMPS.
- LETTERS WITHIN CIRCLES REFER TO FITTINGS IN 'LIST OF FITTINGS' TABLE.
- 1/8" CLEARANCE PROVIDED FOR GASKETS BETWEEN FITTINGS.
- A SHORT LENGTH OF PIPE (4'-0" OR LESS) SHALL BE INSTALLED ADJACENT TO ALL CAST IRON OR RIGID FITTINGS.

REVISIONS

No.	DESCRIPTION	DATE	BY
1	ITEM 'E' 12" ELBOW CHANGED FROM VIC. FLG. TO VIC. FLG. ENDS.	11/16/72	S.E.
2	ITEM 'E' 12" SHORT CHANGED FROM VIC. ENDS TO VIC. TO FLOOR ENDS.	11/16/72	S.E.
3	NOTE 'S' CHANGED FROM ALUMINUM STAIRS TO GALV. STEEL AND ALUMINUM STAIRS.	11/16/72	S.E.
4	ITEM 'B' 12" VALVE CHANGED FROM FLOOR TO FLOOR - VICTAULIC.	11/16/72	S.E.
5	ITEM 'G' 12" SHORT CHANGED FROM FLOOR - VIC. FLG. TO FLOOR - VIC.	11/16/72	S.E.
6	ITEM 'H' 12" VALVE CHANGED FROM FLOOR TO VIC. - FLOOR.	11/16/72	S.E.
7	ITEM 'I' ADDED - 12" ELBOW CHANGE TO VICTAULIC.	11/16/72	S.E.
8	ITEM 'O' 12" SHORT CHANGED FROM VIC. - VIC. FLG. TO FLOOR - VIC.	11/16/72	S.E.
9	NOTE 'A' CHANGED TO READ ALL VICTAULIC COUPLINGS - STYLE '44'.	11/16/72	S.E.

LIST OF FITTINGS

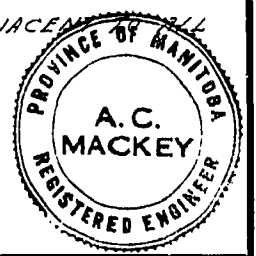
ITEM	DESCRIPTION	LENGTH	QUANTITY
A	14" C.I. SHORT WITH CONC. RING (FLANGE TO FLANGE)	4'-0"	3
B	14" GATE VALVE (FLANGE TO FLANGE)	1'-3"	3
C	14" x 12" C.I. ECCENTRIC REDUCER (FLANGE TO VICTAULIC FLANGE)	1'-4"	3
D	8" x 12" x 13.8" MONARCH PUMP - CV SERIES 12" SUCTION, 8" DISCHARGE AND 13.8" IMPELLER	2'-6"	3
E	8" x 12" C.I. ECCENTRIC INCREASED FLANGED.	1'-2"	3
F	12" CHECK VALVE FLANGED.	2'-2"	3
G	12" B. C.I. SHORT (FLANGE TO VICTAULIC)	1'-6 3/4"	2
GA	12" B. C.I. SHORT (VICTAULIC TO FLANGE)	1'-6 3/4"	2
H	12" GATE VALVE (FLANGED TO FLANGE)	1'-2"	3
I	12" - 45° C.I. ELBOW (VICTAULIC FLG TO FLG)	(0'-7 1/2")	2
J	12" C.I. SHORT FLANGED.	1'-7 1/8"	1
K	12" C.I. SHORT (VICTAULIC TO FLANGE).	3'-7 1/4"	1
L	14" x 12" x 12" C.I. REDUCING WYE FLANGED. 12" BRANCH - 2'-3" LONG.	2'-9"	1
M	14" C.I. SHORT FLANGED WITH 3" TAPPED HOLE IN ONE SIDE (WITH 3" BRASS PLUG INSTALLED IN HOLE)	2'-5 1/4"	1
N	20" x 14" x 12" - 90° SPECIAL C.I. REDUCING, BASE ELBOW (DOUBLE BRANCH) (20" VICTAULIC + 14" FLANGE)	1'-6"	1
O	12" B. C.I. SHORT (FLANGE TO VICTAULIC)	2'-1 3/4"	1
OA	12" B. C.I. SHORT (VICTAULIC TO FLANGE)	2'-1 3/4"	1
P	SUMMERVILLE SUMP PUMP - MONARCH MACHINERY LTD. MODEL No. 44 OF APPROVED EQUAL		1
Q	10" DONNET 155 KNIFE GATE VALVE REDUCING OF APPROVED EQUAL.	0'-4"	1
W	12" - 45° C.I. ELBOW (FLANGE TO VICTAULIC)	(0'-7 1/2")	1

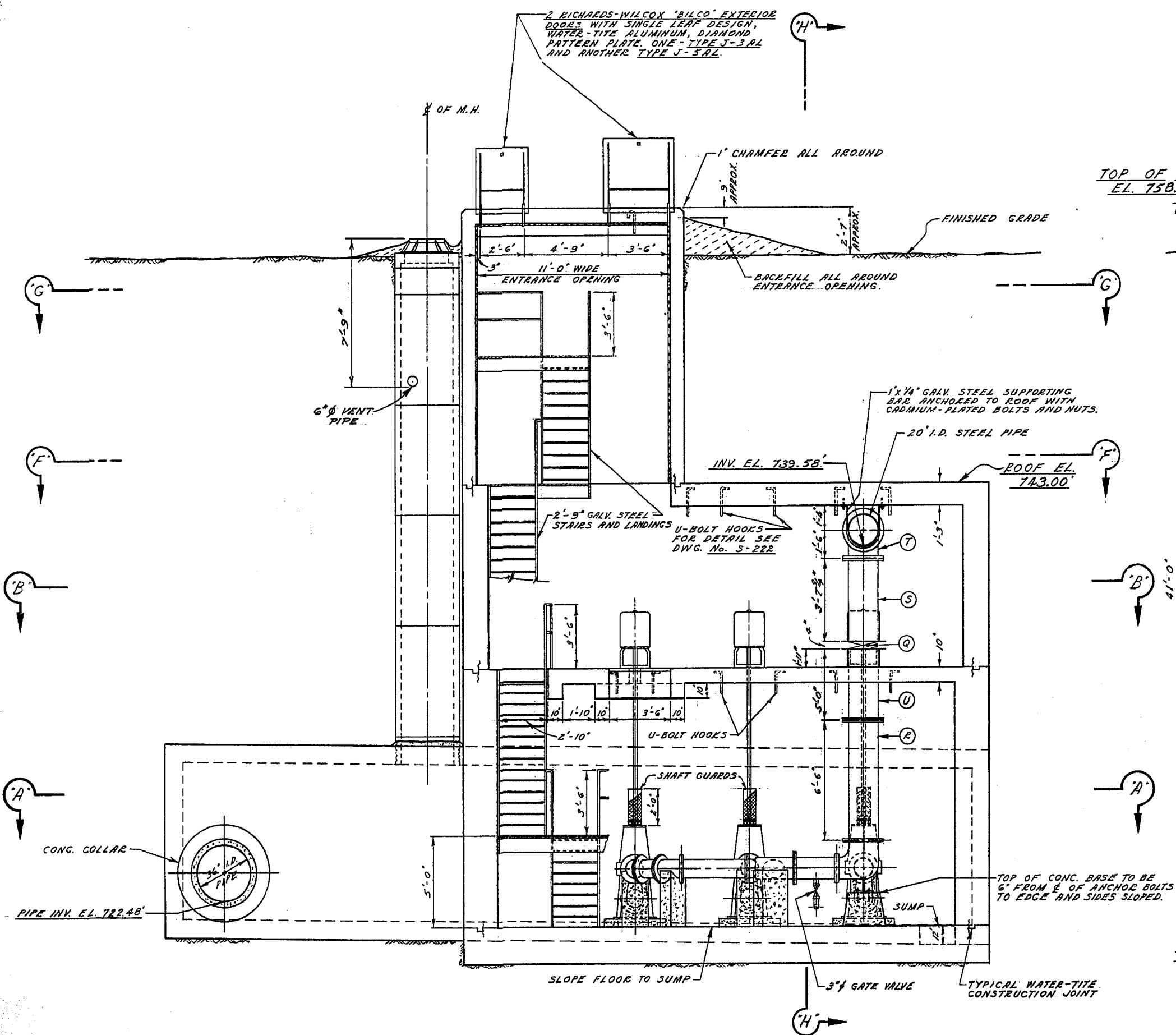
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS & WASTE DISPOSAL DIVISION
A. PENMAN - DIRECTOR

SEWERAGE DISPOSAL DEPT.
D'ARCY PUMPING STATION

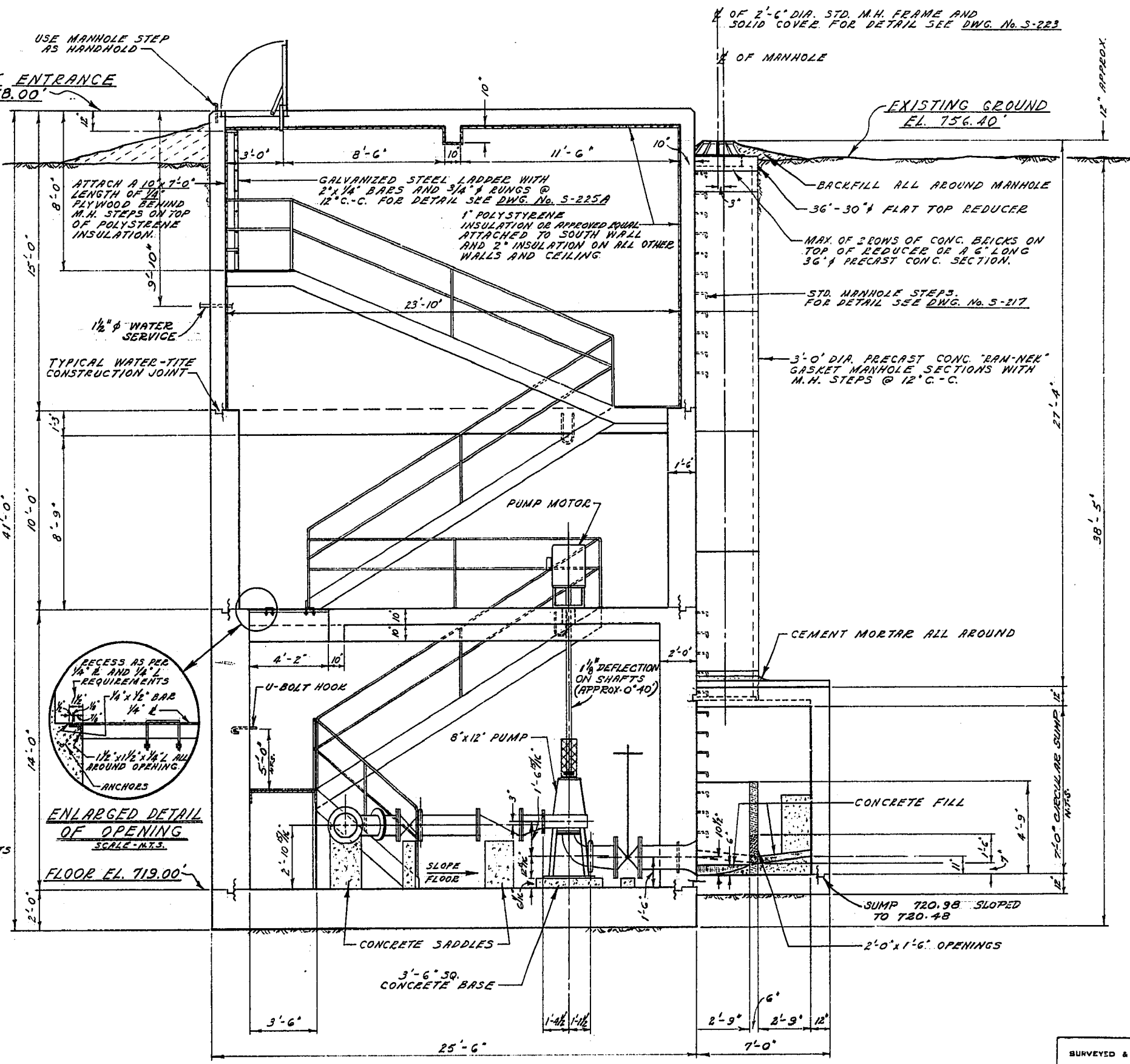
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: [Date]
ENGR. DES. [Signature]
ENGR. OPER. [Signature]
APPROVED BY: [Signature]

SCALE: 1/4" = 1'-0"
DRAWING NO. **737**
MICROFILMED NOV 76

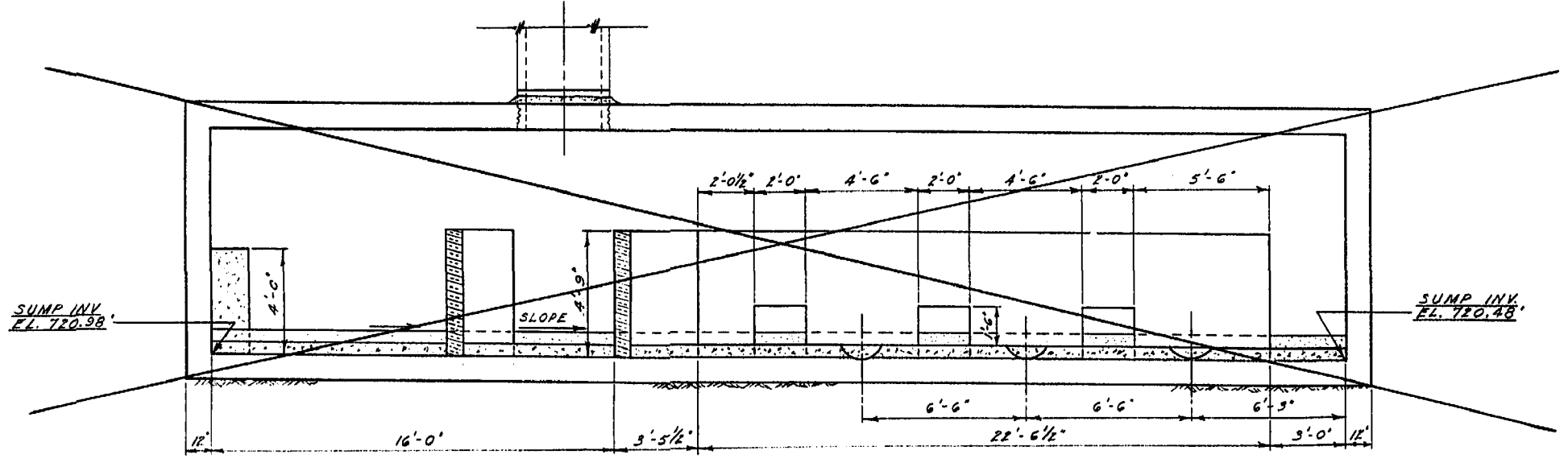




SEC. 'C'-'C'
(LONGITUDINAL SECTION LOOKING NORTH)



SEC. 'D'-'D'
(CROSS-SECTION LOOKING WEST)

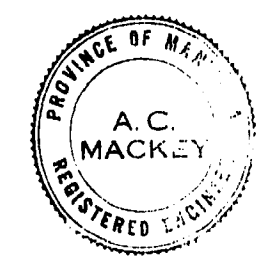


SEC. 'E'-'E'
(LONG. SECTION THRU SUMP)

- NOTE**
- 1/8" to 1/4" CLEARANCE PROVIDED FOR GASKETS OF JOINTS ON 20" I.D. STEEL FORCEMAIN.
 - 20" VICTAULIC COUPLINGS WILL BE STYLE "4A".
 - FOR DETAIL OF SEC. "A" AND "B" SEE DWG. NO. 737 FOR DETAIL OF SEC. "F" AND "G" SEE DWG. NO. 739

ADDITIONAL LIST OF FITTINGS			
ITEM	DESCRIPTION	LENGTH	QUANTITY
Q	20" BONNETLESS KNIFE GATE VALVE, "DAZURIA" OR APPROVED EQUAL (ADAPTABLE TO FLANGE JOINTS)	0'-4"	1
R	20" I.D. STEEL SHORT (VICTAULIC TO FLANGE)	6'-6"	1
S	20" I.D. STEEL SHORT FLANGED.	3'-7 1/2"	1
T	20" x 90" C.I. ELBOW FLANGED.	1'-6"	1
U	20" I.D. STEEL SHORT FLANGED.	5'-0"	1

REVISIONS			
No.	DESCRIPTION	DATE	BY
1	ITEM "V" - 20" STEEL SHORT DELETED.	11/17/73	S.K.



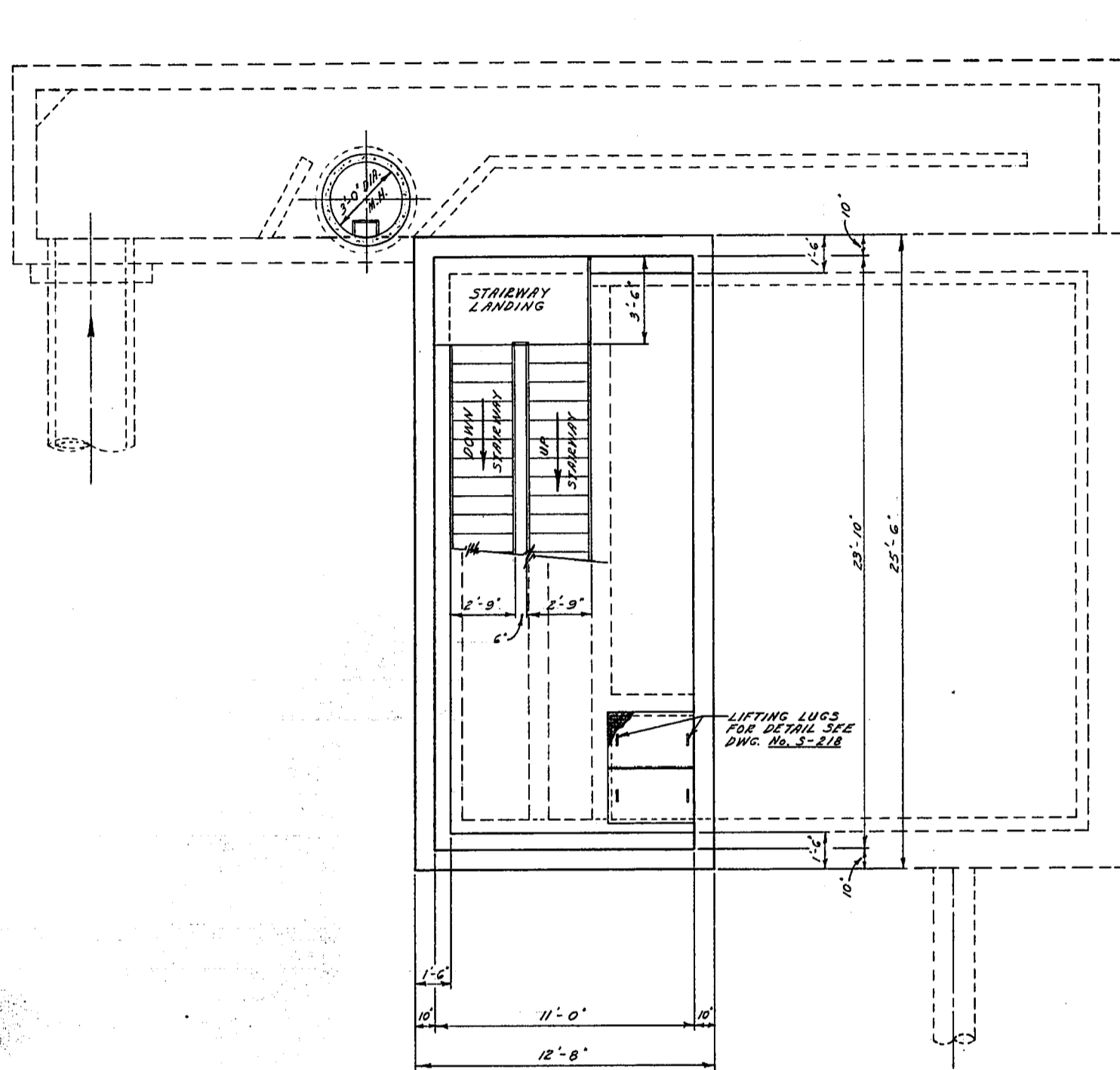
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS & WASTE DISPOSAL DIVISION
A. PINMAN - DIRECTOR

SEWAGE DISPOSAL DEPT.
D'ARCY PUMPING STATION
SEC. "C", "D" AND "E"
DETAILS OF SUBSTRUCTURE SECTIONS AND SUMP

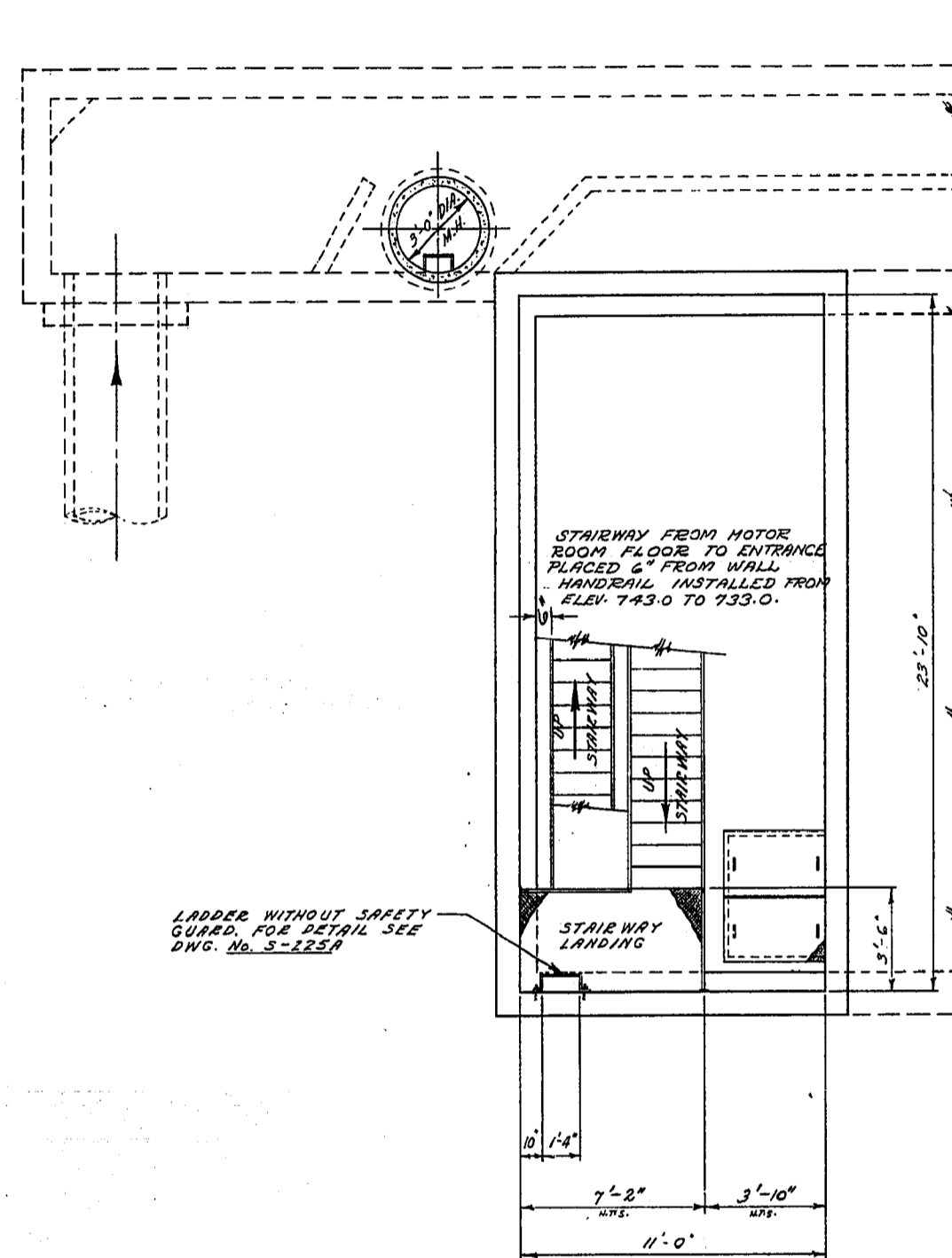
DESIGNED BY: S.K.
DATE: 11/17/73
ENGR. OPER. BY: [Signature]
APPROVED BY: [Signature]

SCALE: 1/8" = 1'-0"
DRAWING NO. **738**

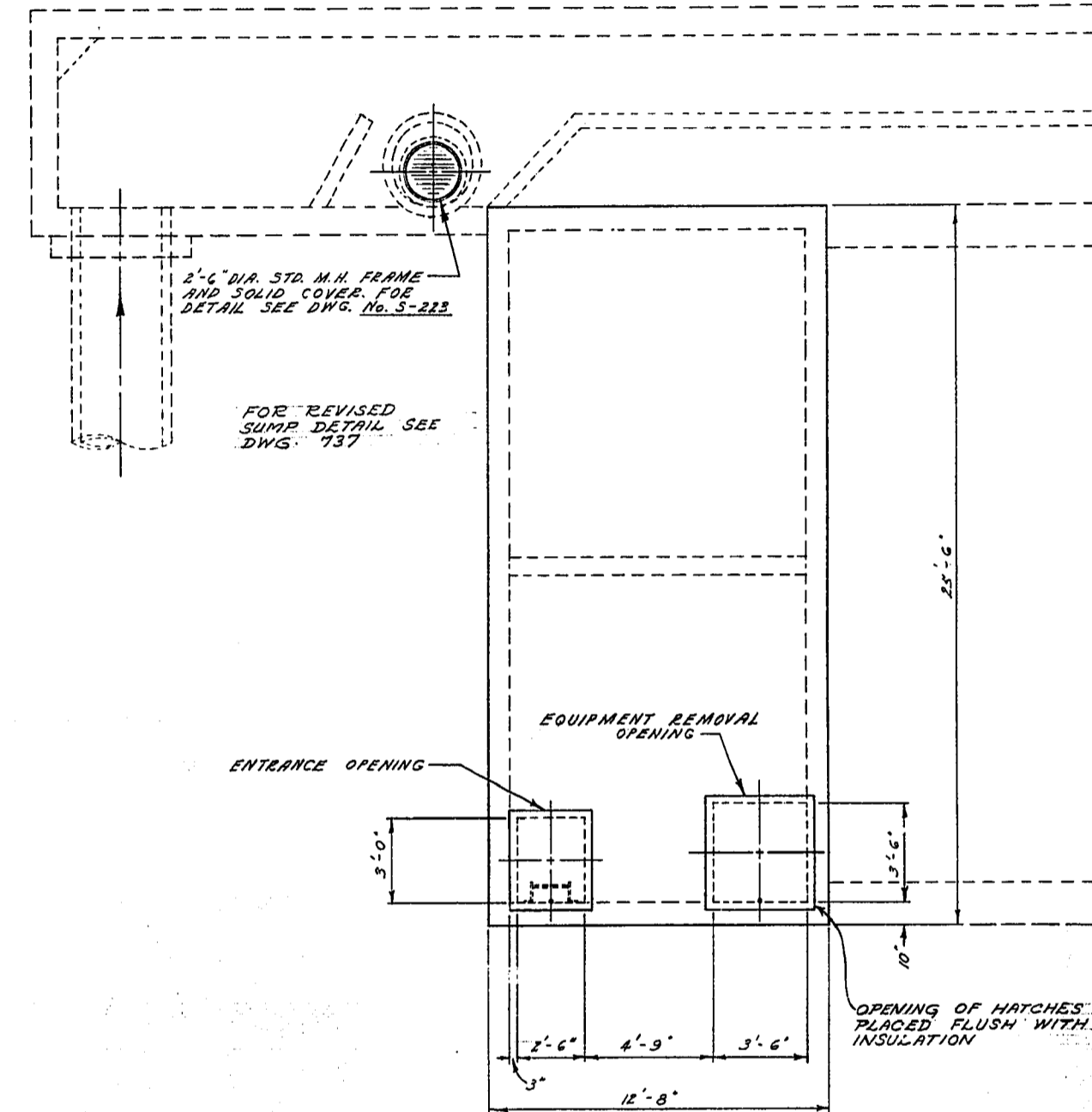
SURVEYED & PLAN CHECKED BY: [Signature]
APPROVED AS BUILT BY: [Signature]
DATE: Dec 12/73



SEC. 'F' - 'F'



SEC. 'G' - 'G'
STAIRWAY AND ENTRANCE PLATFORM



ROOF PLAN
GROUND SURFACE

NOTE:

1. ALL STAIRS SHALL HAVE GALV STEEL NON-SLIP TREADS AND LANDINGS AND 1 1/2" x GALV STEEL PIPE HANDRAILS WITH THE EXCEPTION OF THE REMOVABLE STAIRS ON PUMP ROOM FLOOR WHICH SHALL BE ALUMINUM.

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	NOTE CHANGED FROM ALUMINUM STAIRS TO GALV STEEL & ALUMINUM	12/4/72	S.C.

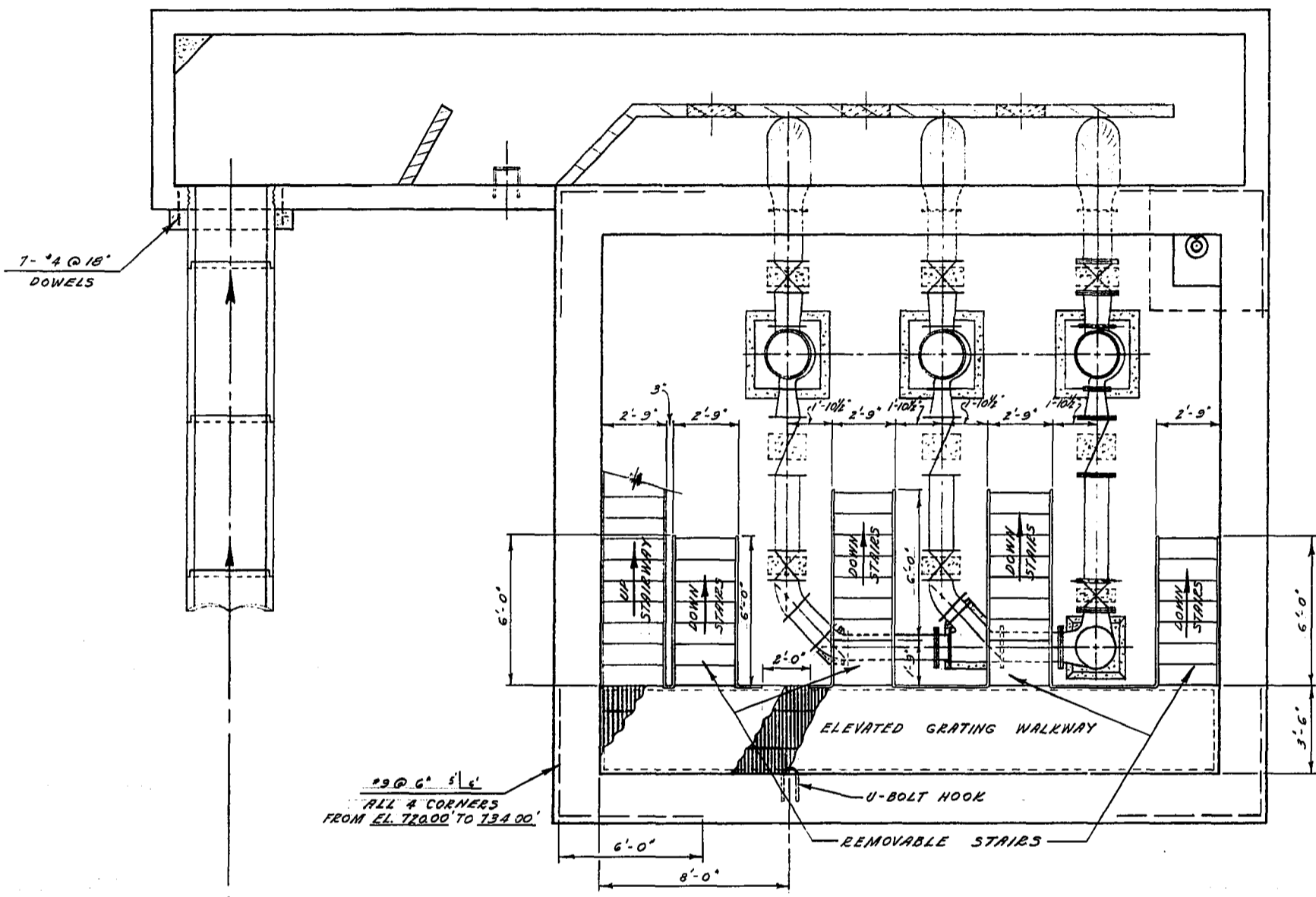
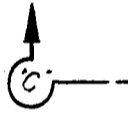
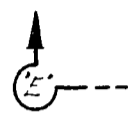
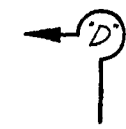
THE METROPOLITAN CORPORATION
OF GREATER WINNIPEG
**WATERWORKS & WASTE
DISPOSAL DIVISION**
A. PENMAN - DIRECTOR

SEWAGE DISPOSAL DEPT.
D'ARCY PUMPING STATION
SEC. 'F' AND 'G'
**DETAILS OF ENTRANCE
ROOF AND PLATFORM**

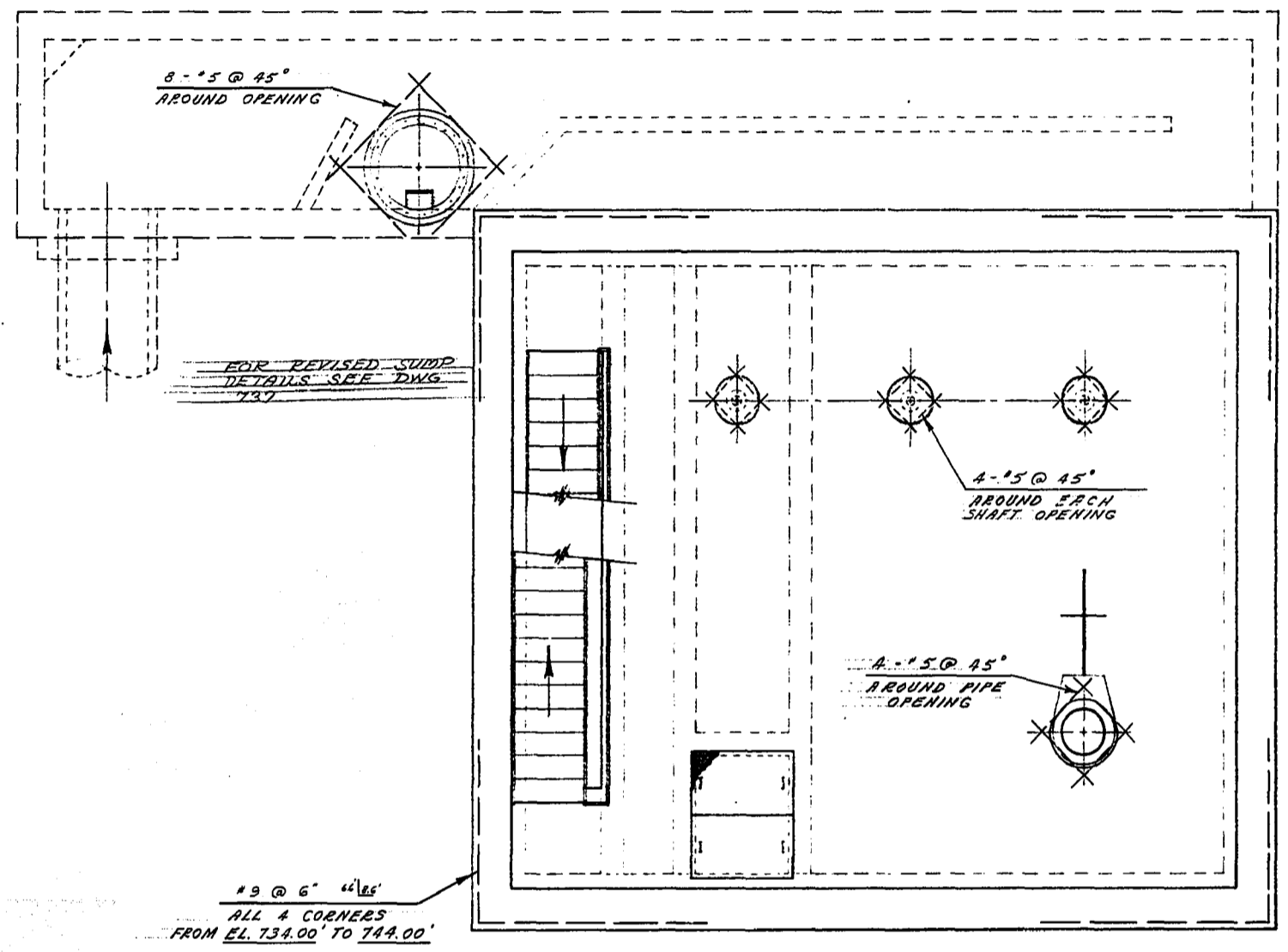
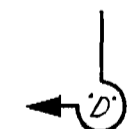
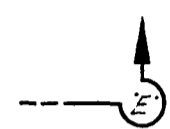
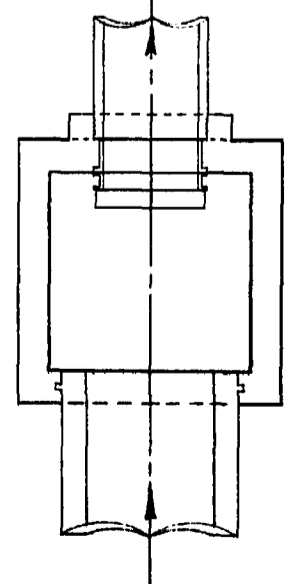
SURVEYED & PLAN CHECKED
APPROVED AS BUILT
BY D. Scott
V. DUDAS DEC 11/73



SCALE
1/4" = 1'-0"
DRAWING NO.
739



SEC. "A" - "A"
PUMP ROOM AND SUMP FLOOR PLAN



SEC. "B" - "B"
PUMP MOTOR ROOM FLOOR PLAN

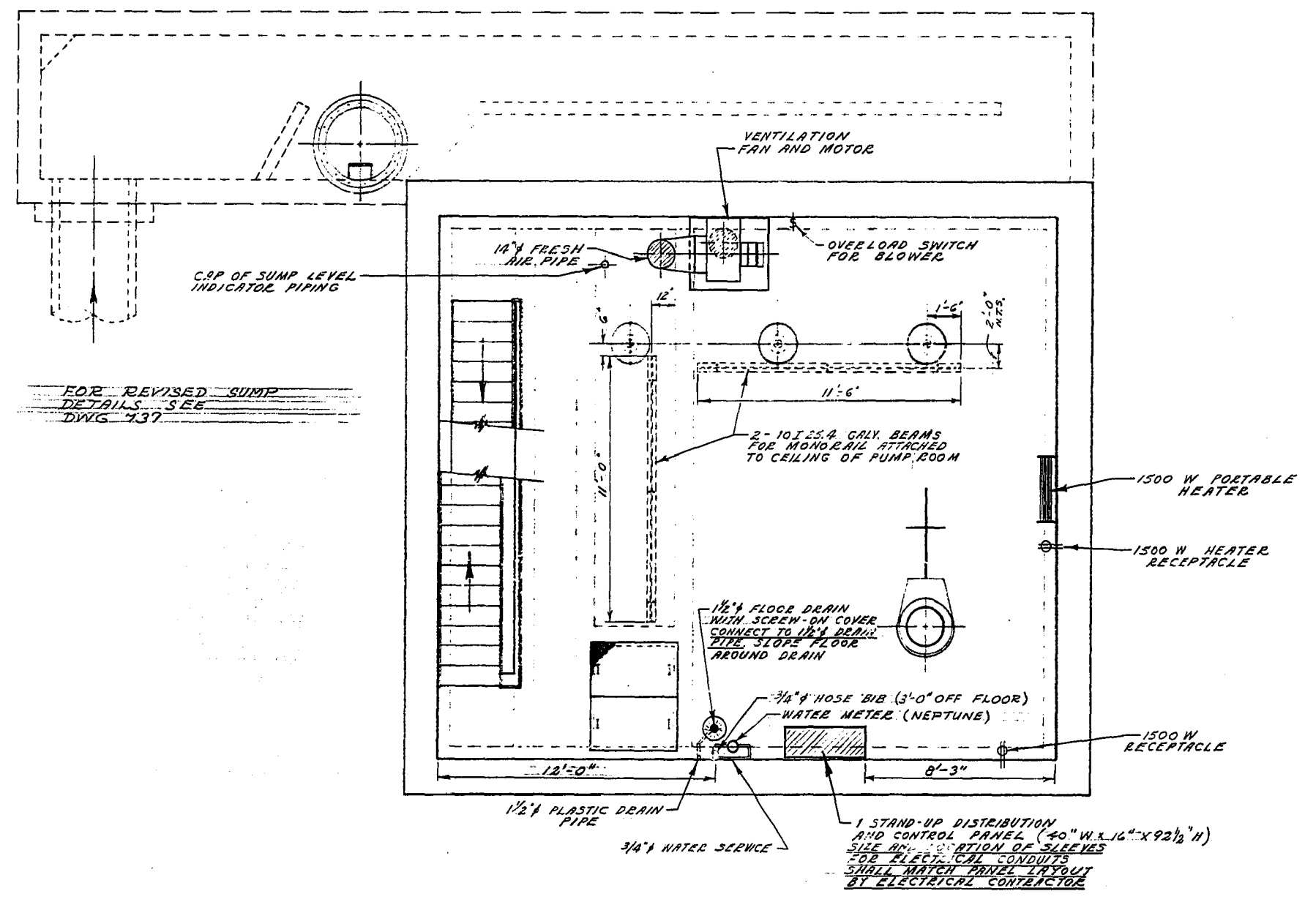
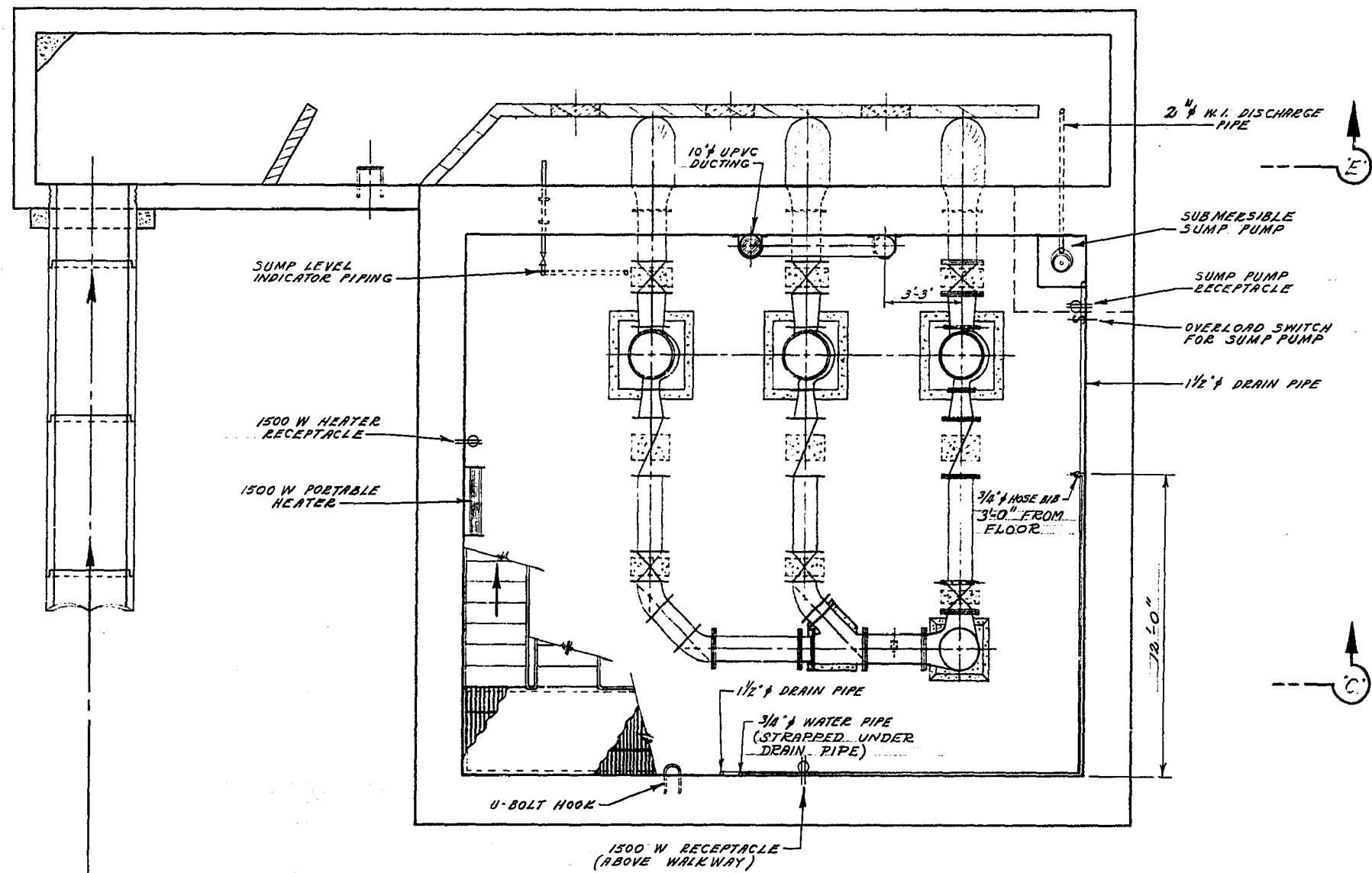
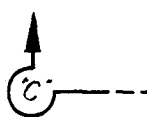
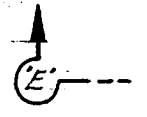
NOTE:
1. THE 4 STAIRS ATTACHED TO THE ELEVATED WALKWAY ON THE PUMP ROOM FLOOR SHALL BE REMOVABLE FROM WALKWAY.



Handwritten signature
D. S. CH
V. PUDORE, DEC 12, '23

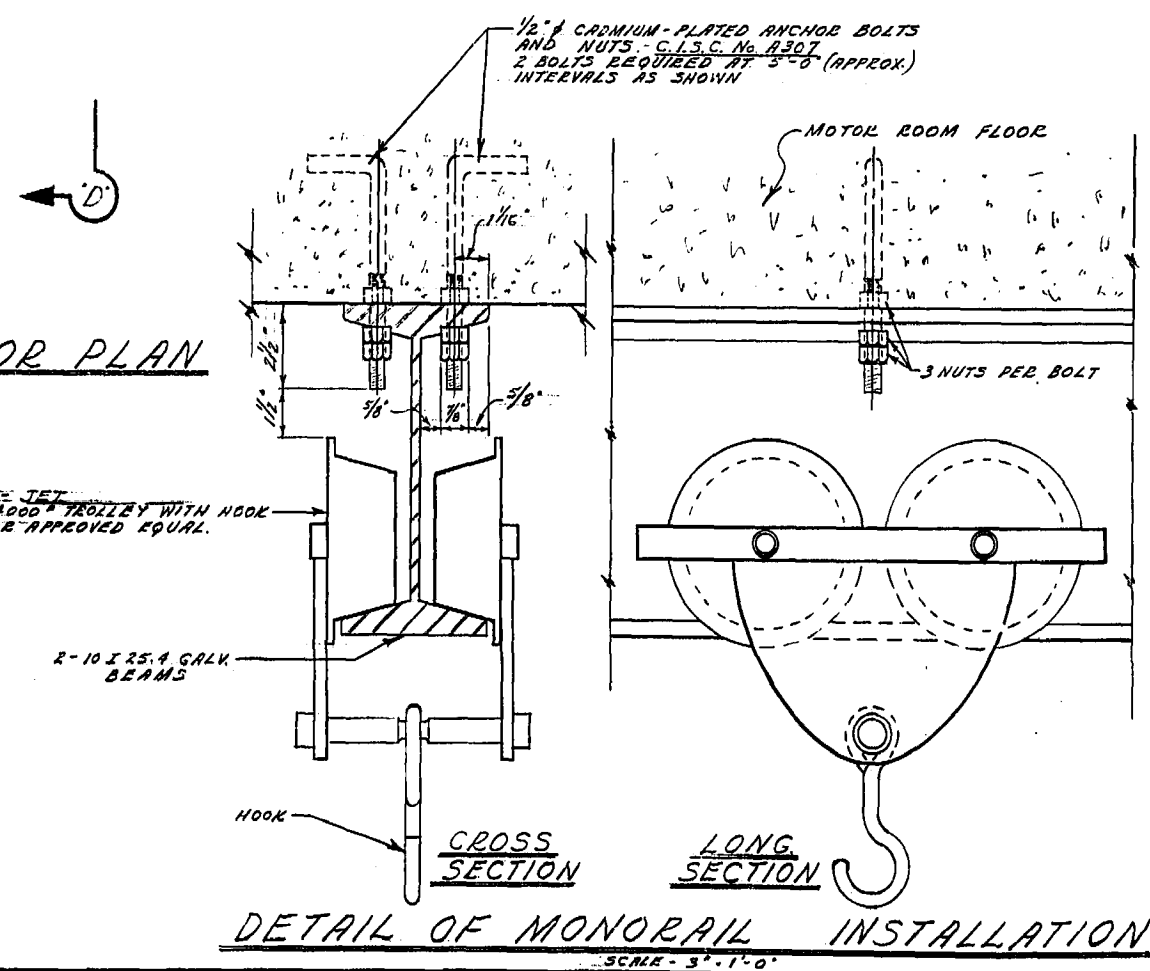
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG WATERWORKS & WASTE DISPOSAL DIVISION A. PENMAN - DIRECTOR	SEWAGE DISPOSAL DEPT.	DES. <i>S.K.</i> CHKD. <i>an</i>	SCALE 1/4" = 1'-0"
	D'ARCY PUMPING STATION	DRN. <i>S.K.</i> DATE <i>APRIL 1923</i>	DRAWING NO.
	DETAIL OF ELEVATED WALKWAY ON PUMP ROOM FLOOR AND REINFORCING	ENG. DES. <i>Penman</i>	741
		ENG. OPR. <i>Penman</i>	

MICROFILMED NOV



SEC. 'A' - 'A'
PUMP ROOM AND SUMP FLOOR PLAN
SCALE - 1/4" = 1'-0"

SEC. 'B' - 'B'
PUMP MOTOR ROOM FLOOR PLAN
SCALE - 1/8" = 1'-0"



DETAIL OF MONORAIL INSTALLATION
SCALE - 3/8" = 1'-0"

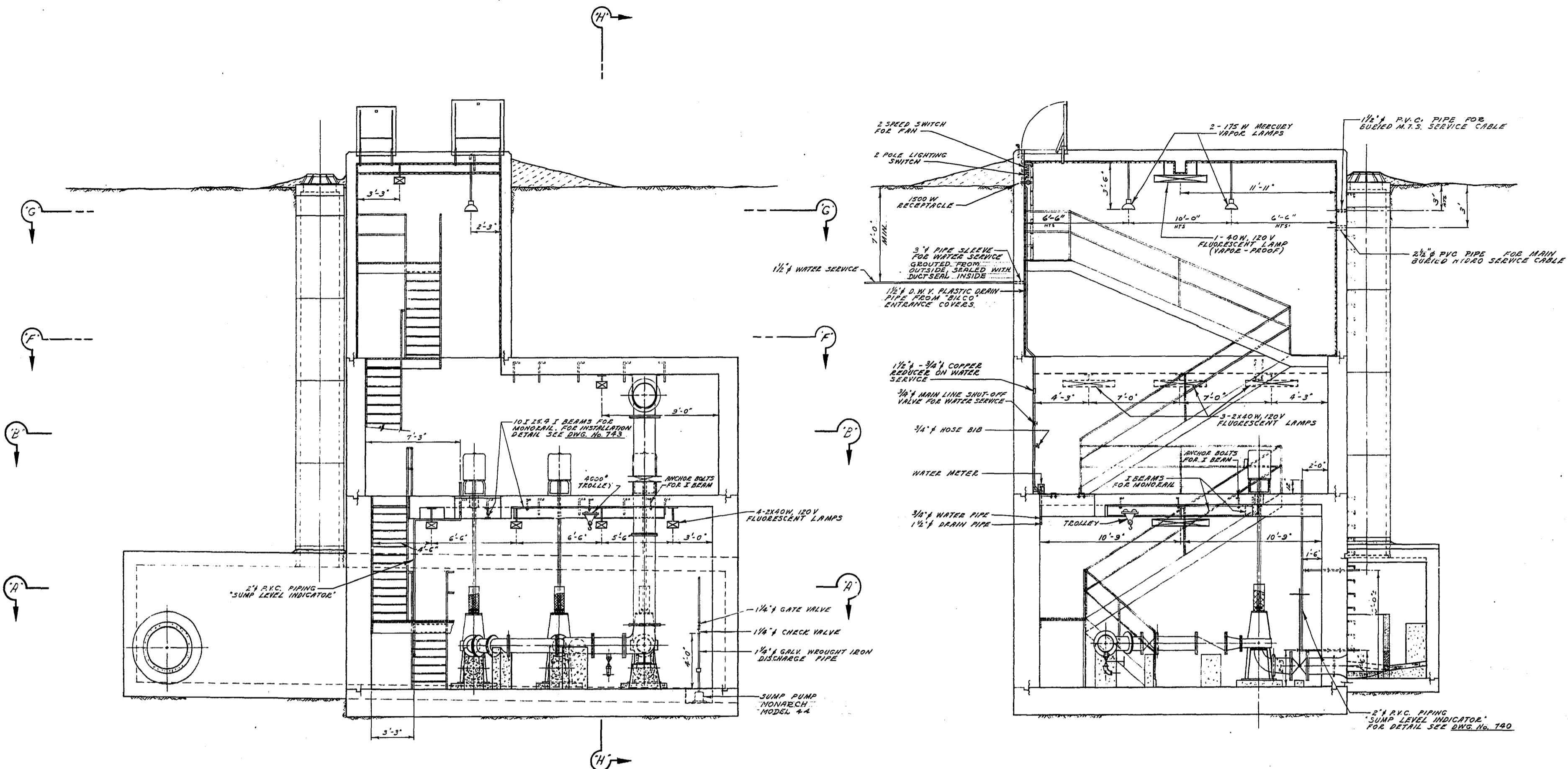


NOTE:

THE PORTABLE HEATERS SHALL BE 'CREEVE' MODEL No. HAH115M1, C/W. HAH11 THERMOSTAT KIT OR APPROVED EQUAL.

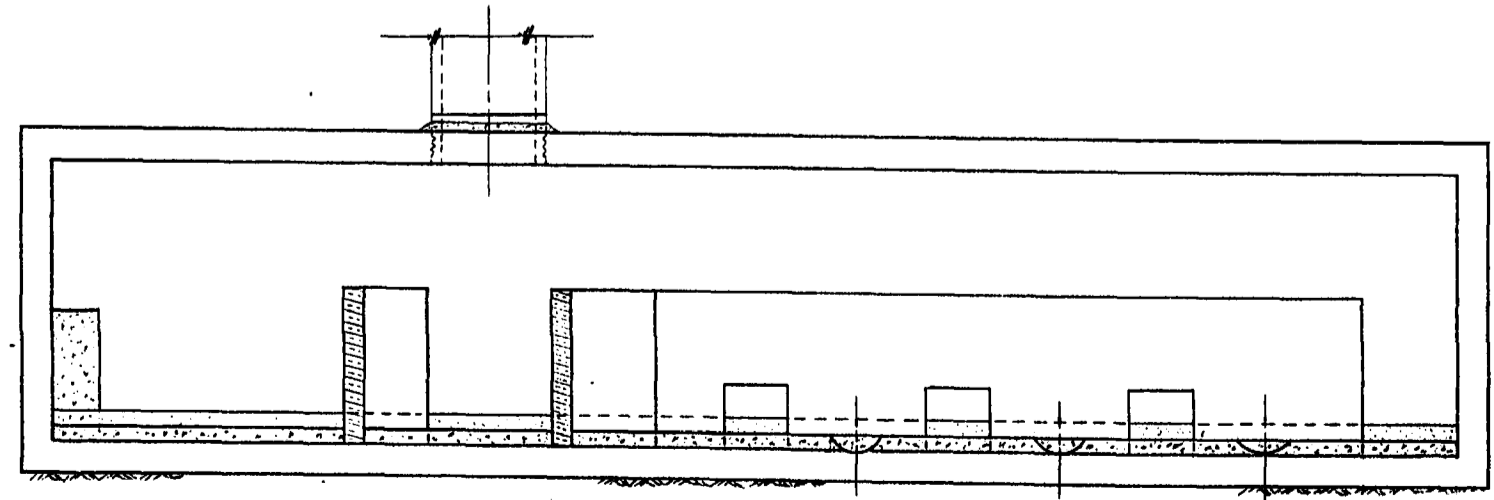
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG WATERWORKS & WASTE DISPOSAL DIVISION A. PENMAN - DIRECTOR	SEWERAGE DISPOSAL DEPT.	DES. <i>S.L.</i> CH'KD. <i>AV</i>	SCALE
	D'ARCY PUMPING STATION	DRN. <i>S.L.</i> DATE <i>1/11/76</i>	AS NOTED
	VENTILATION	ENG. DES. <i>Ken Selby</i>	DRAWING NO.
	ELECTRICAL, MISC PIPING AND MONORAILS	APPROVED <i>[Signature]</i>	743

MICROFILMED NOV 76

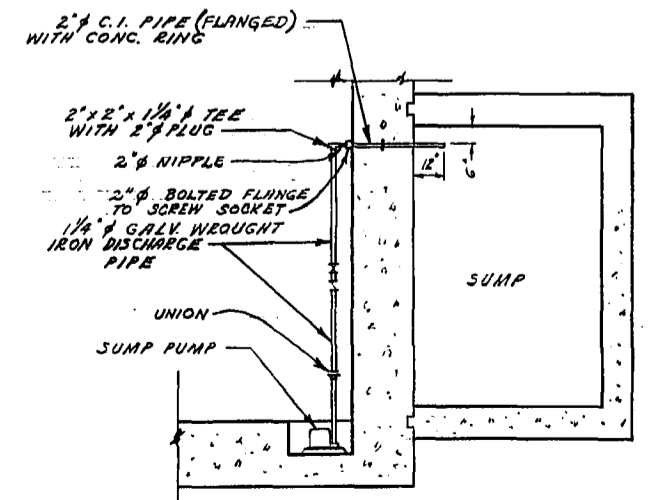


SEC. 'C'-'C'
(LONGITUDINAL SECTION LOOKING NORTH)

SEC. 'D'-'D'
(CROSS-SECTION LOOKING WEST)



SEC. 'E'-'E'
(LONG. SECTION THRU SUMP)

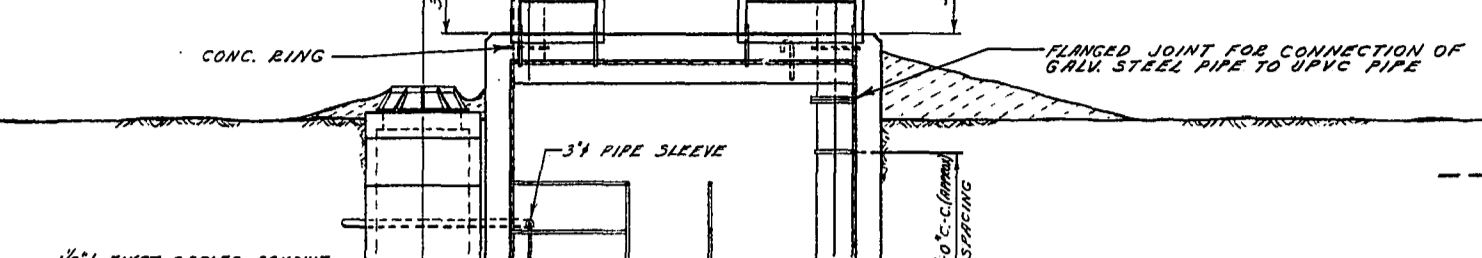
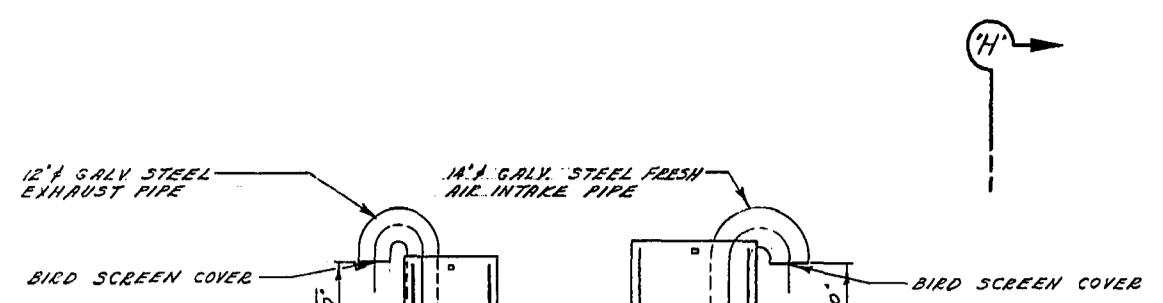


DETAIL OF SUMP PUMP
DISCHARGE PIPING

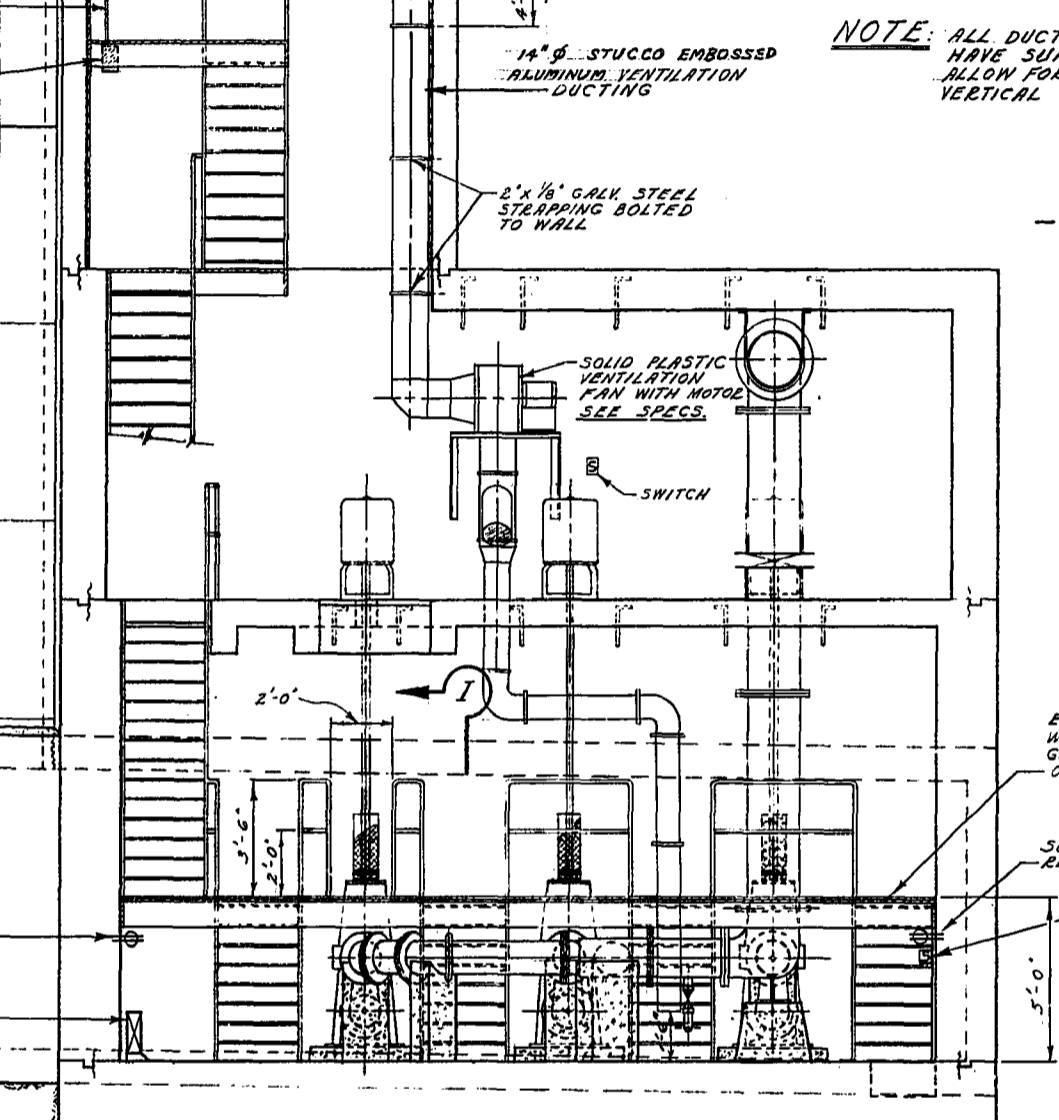
NOTE: THE FLUORESCENT LAMP NEAR THE STATION ENTRANCE SHALL BE VAPOR-PROOF. THE REMAINDER ARE NOT VAPOR-PROOF.

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG WATERWORKS & WASTE DISPOSAL DIVISION A. PENMAN - DIRECTOR	SEWAGE DISPOSAL DEPT.		DES. <i>[Signature]</i> CH'KD. <i>[Signature]</i> DRN. <i>[Signature]</i> DATE <i>[Date]</i>	SCALE 1/2" = 1'-0"
	D'ARCY PUMPING STATION		ENG. DES. <i>[Signature]</i> ENG. OPER. <i>[Signature]</i>	DRAWING NO. 744
	ELECTRICAL, MISC. PIPING AND MONORAILS		APPROVED <i>[Signature]</i> DEC 12/73	MICROFILMED NOV 76

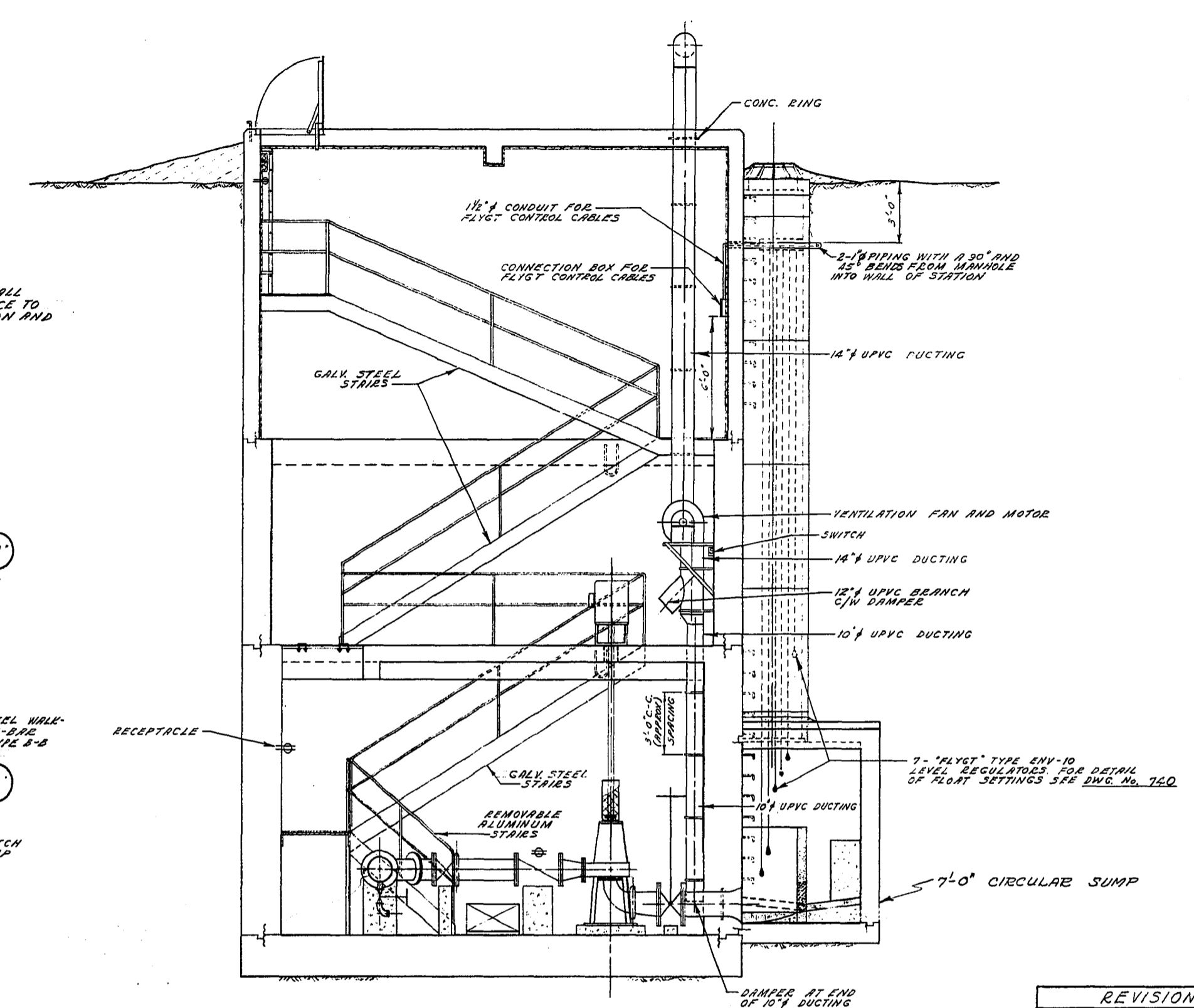




NOTE: ALL DUCT STRAPPING SHALL HAVE SUFFICIENT CLEARANCE TO ALLOW FOR DUCT EXPANSION AND VERTICAL MOVEMENT.

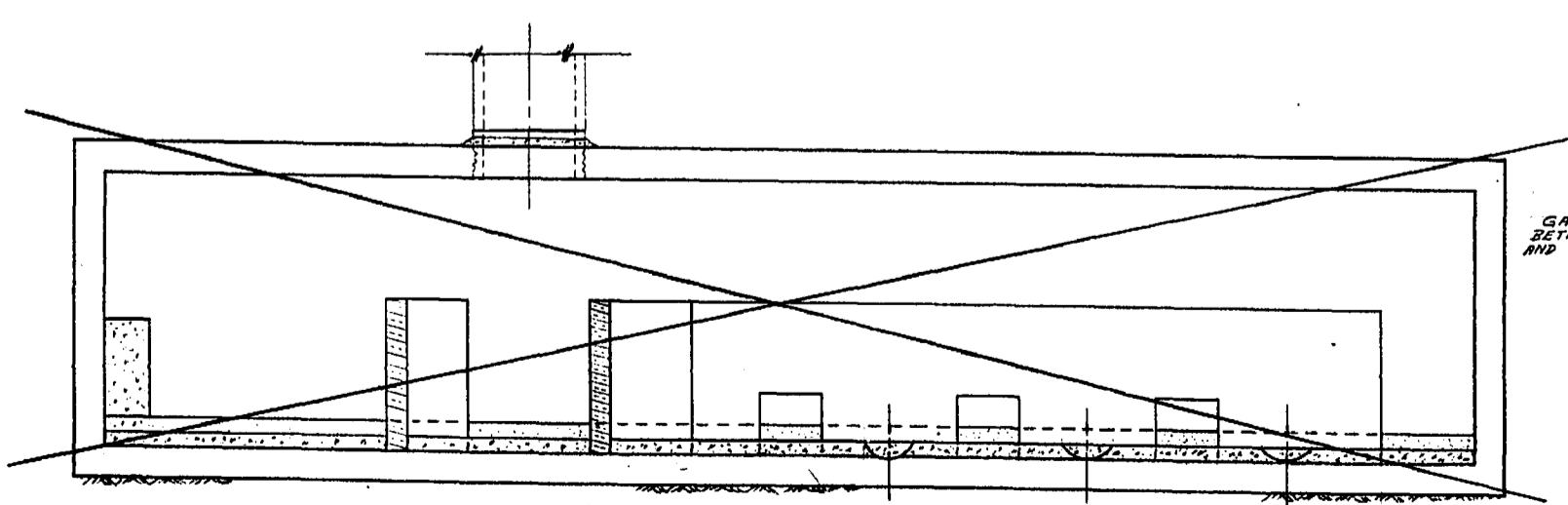


SEC. 'C'-'C'
(LONGITUDINAL SECTION LOOKING NORTH)

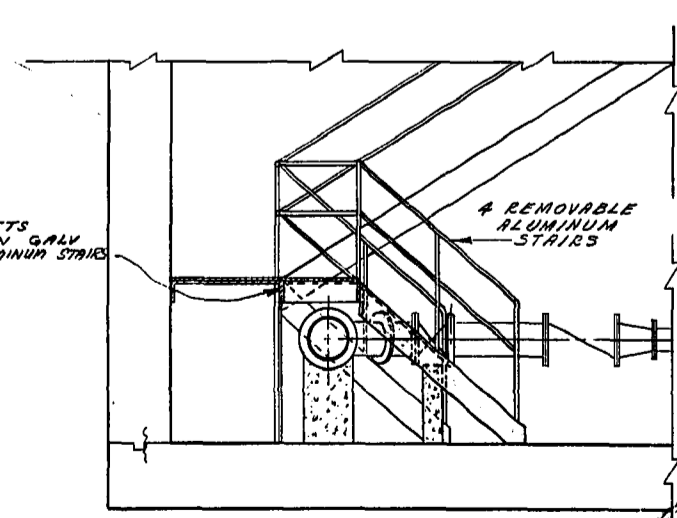


SEC. 'D'-'D'
(CROSS-SECTION LOOKING WEST)

REVISIONS		
No.	DESCRIPTION	DATE BY
1	GRATING FOR WALKWAY CHANGED FROM ALUMINUM TO GALV. STEEL	12/17/72 SK



SEC. 'E'-'E'
(LONG. SECTION THRU SUMP)



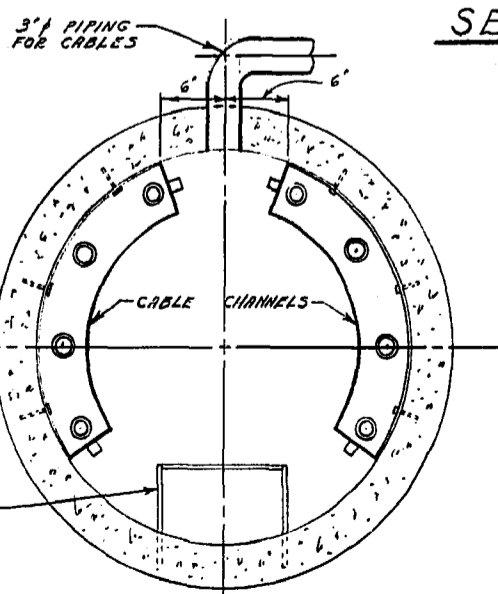
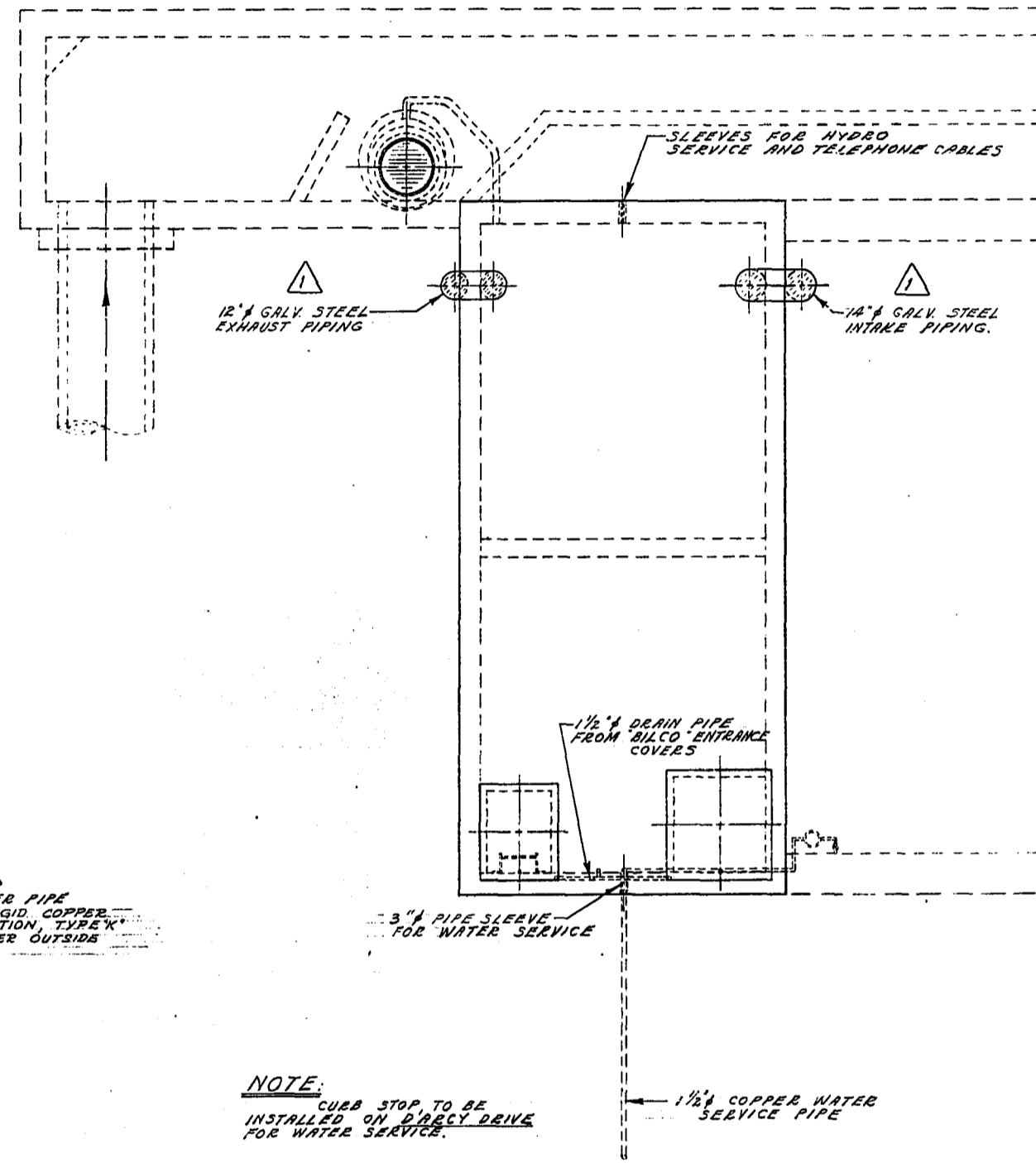
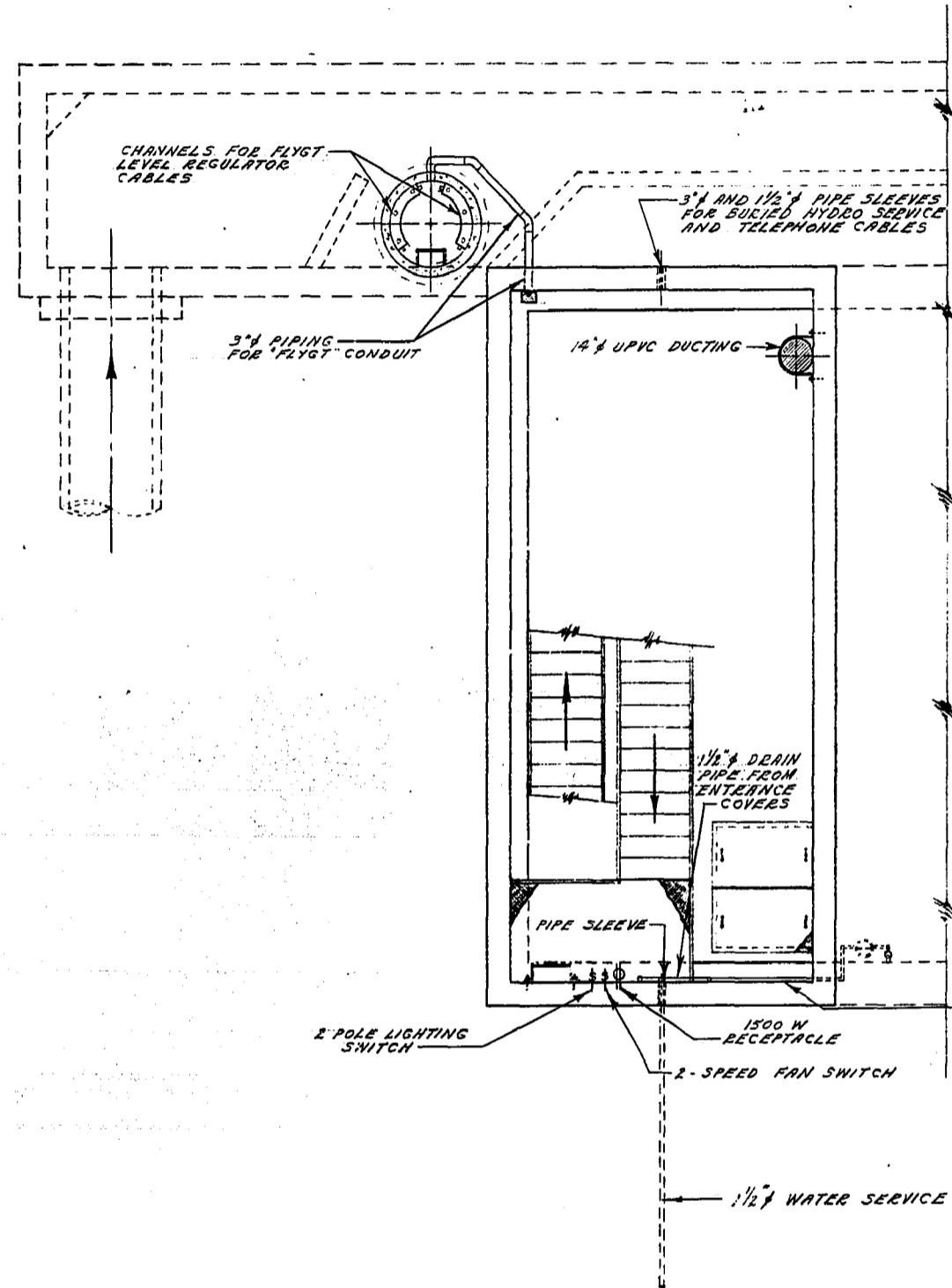
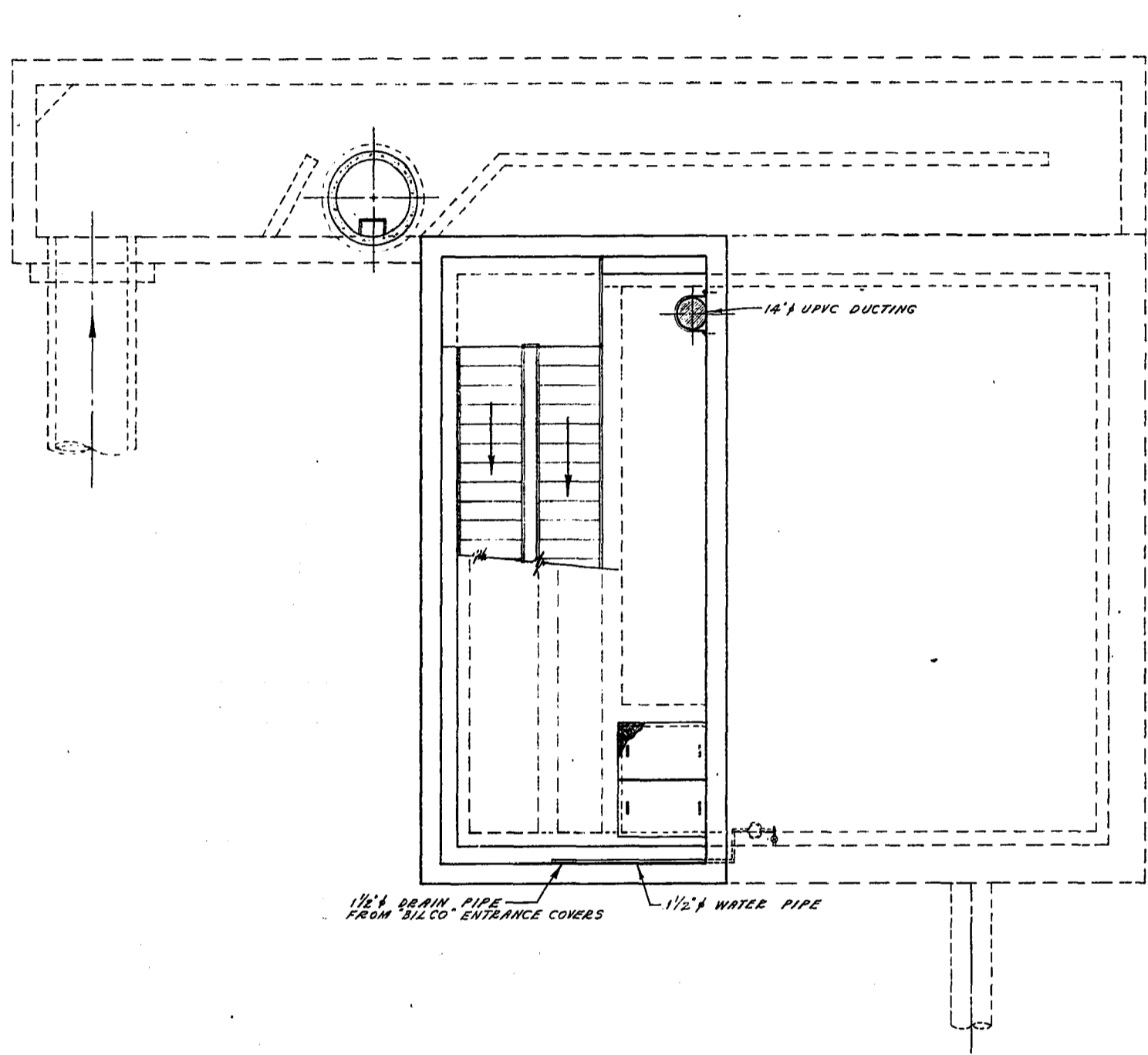
SEC. 'I'-'I'

NOTE:
THE REMOVABLE JOINT OF THE STAIRS TO BE AT THE ELEVATED WALKWAY. (USE BOLTS OR OTHER METHODS TO ATTACH STAIRS TO WALKWAY FOR EASE IN REMOVAL)

- NOTES
1. ALL MISC. METAL WORK OTHER THAN ALUMINUM METAL WORK TO BE NOT DIPPED GALVANIZED AFTER FABRICATION.
 2. ALL SLEEVES TO BE CAULKED TO EACH FACE WITH "DUCTSEAL" OR AN APPROVED EQUAL.
 3. VENTILATION DUCTS, WATER SERVICE PIPING AND ALL OTHER MISC. PIPING TO BE STRAPPED TO WALL OR CEILING AT 6'-0" INTERVALS OR AS NOTED AND WHEREVER NECESSARY.

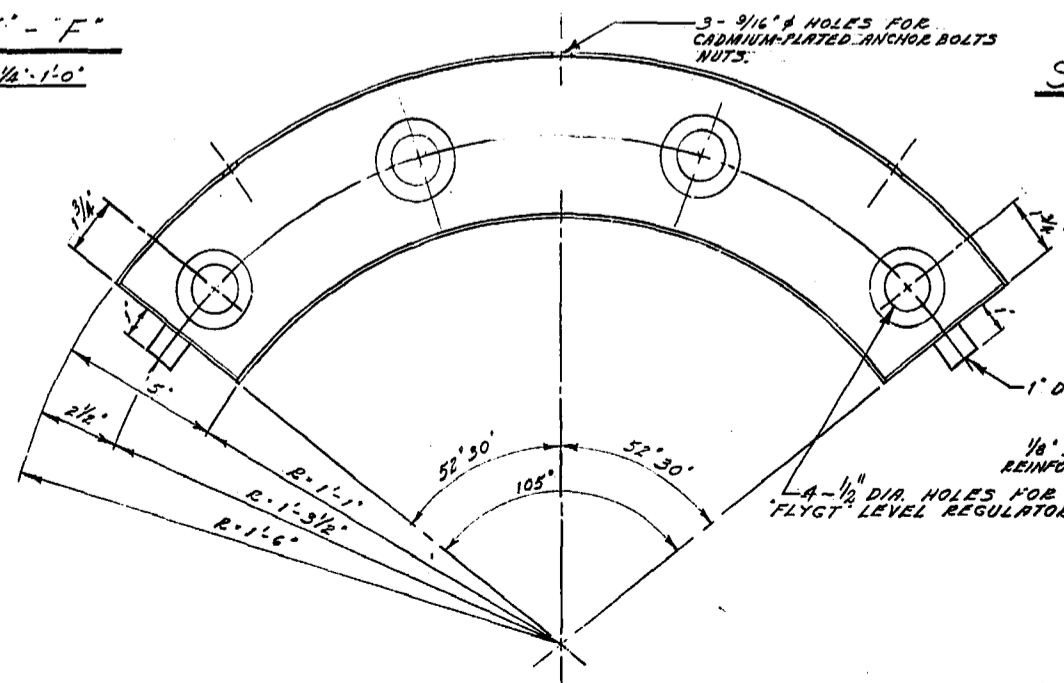


THE METROPOLITAN CORPORATION OF GREATER WINNIPEG WATERWORKS & WASTE DISPOSAL DIVISION A. PENMAN - DIRECTOR	SEWER DISPOSAL DEPT. D'ARCY PUMPING STATION	DRN. S.E. DATE: JANUARY 1973	SCALES 1/4" = 1'-0"
	VENTILATION, ELECTRICAL, WALKWAY AND LEVEL REGULATORS	ENG. DES. <i>[Signature]</i> ENG. OPER. <i>[Signature]</i> APPROVED: <i>[Signature]</i>	DRAWING NO. 745
	D. S. C. S. DUMORE DEC 12/72		MICROFILMED NO.
	DATE: JANUARY 1973		



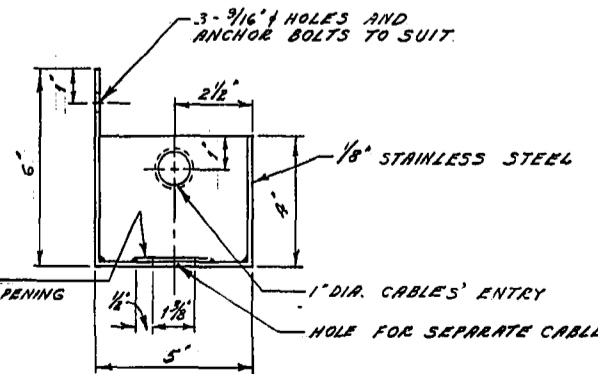
CABLE CHANNELS SETUP IN SUMP MANHOLE

SEC. 'F' - 'F'
SCALE - 1/4" = 1'-0"



PLAN
DETAIL OF 'FLYGT' CABLE CHANNEL - 2 REQUIRED
SCALE = 3" = 1'-0"

SEC. 'G' - 'G'
STAIRWAY AND ENTRANCE PLATFORM
SCALE - 1/4" = 1'-0"



CROSS-SECTION

SEC. 'G' - 'G'
STAIRWAY AND ENTRANCE PLATFORM
SCALE - 1/4" = 1'-0"

ROOF PLAN
GROUND SURFACE
SCALE - 1/4" = 1'-0"

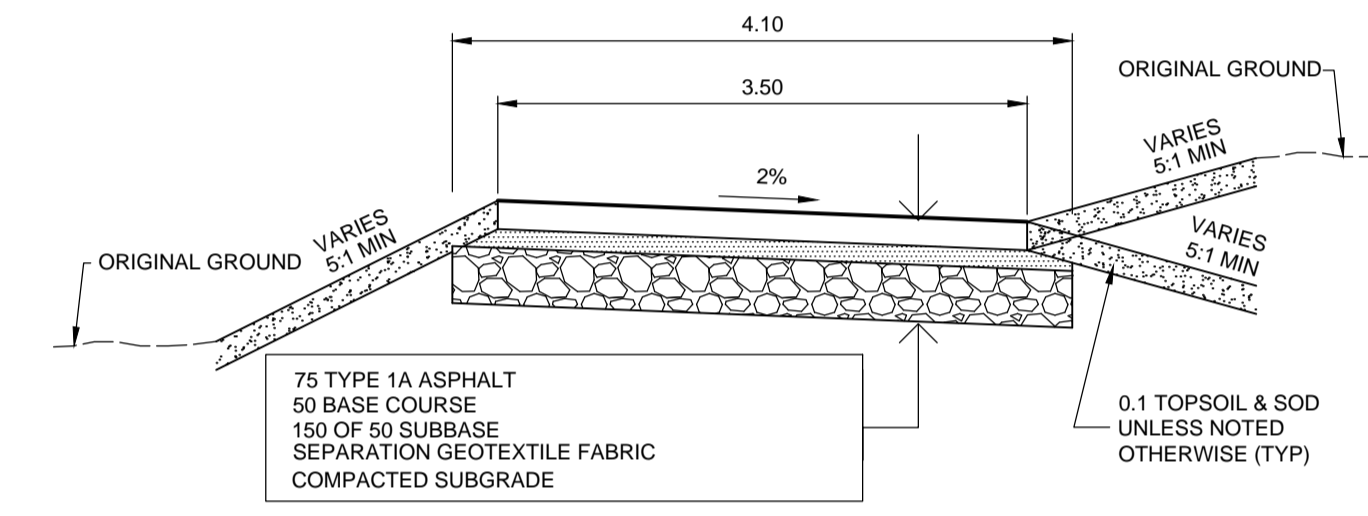
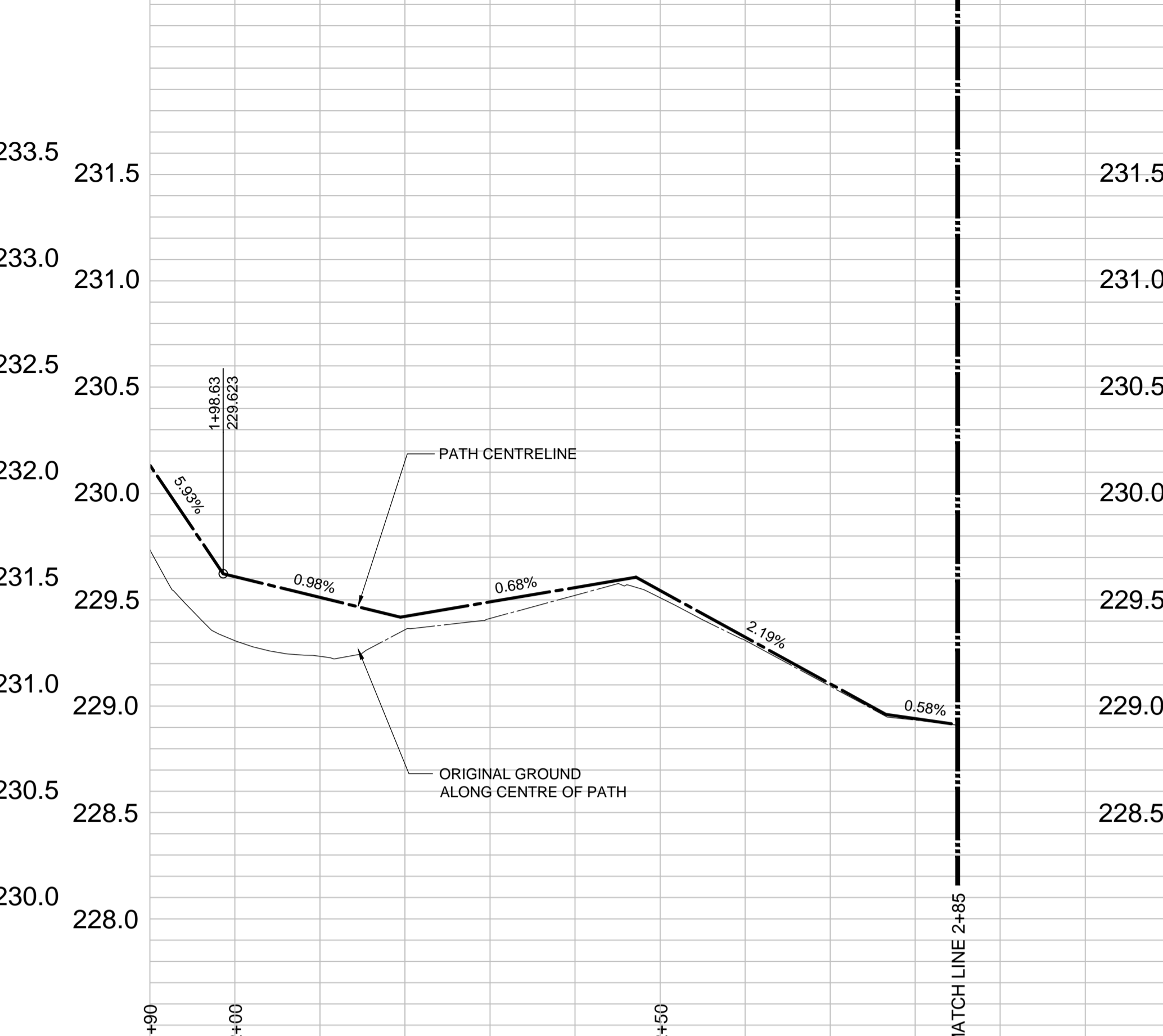
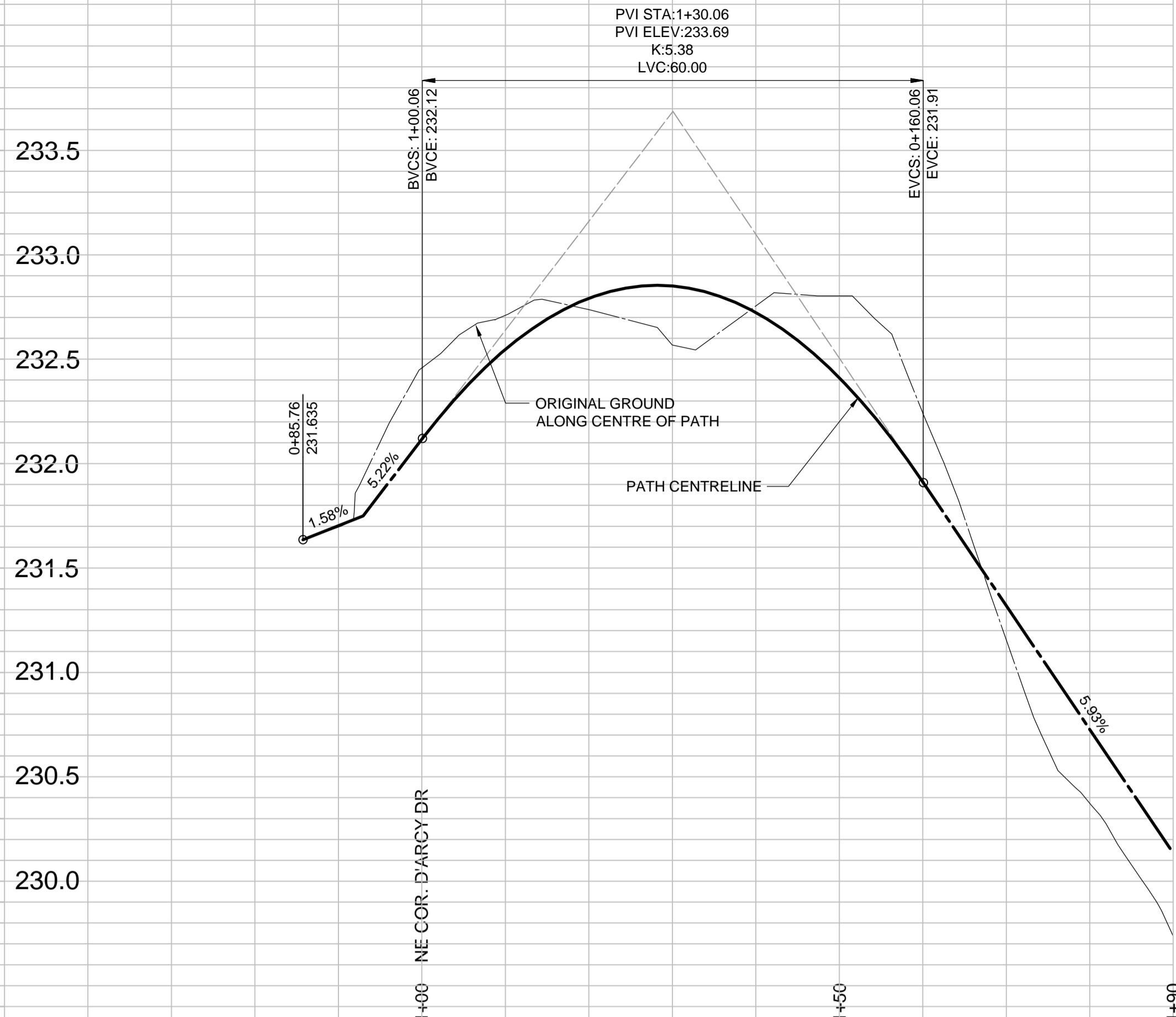
NOTE:
CUB STOP TO BE INSTALLED ON D'ARCY DRIVE FOR WATER SERVICE.

NOTE:
1. G SQUEEZE CONNECTORS ARE REQUIRED FOR 'FLYGT' LEVEL REGULATORS. TYPE ENV-10.
2. CABLE CHANNELS TO BE FABRICATED OF STAINLESS STEEL.

REVISIONS			
No.	DESCRIPTION	DATE	BY
1	12" x 14" EXHAUST & INTAKE PIPING CHANGED TO STEEL FROM UPVC	11/4/73	S.R.
2	3/4" WATER SERVICE CHANGED TO 1/2"	12/4/73	S.R.

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS & WASTE DISPOSAL DIVISION
A. PENMAN - DIRECTOR

3" WARE DISPOSAL DEPT. *[Signature]* CHW
D'ARCY DUMPING STATION LEVEL REGULATORS, CABLE CHANNELS, ELECTRICAL AND MISC PIPING
ENR. S.R. DATE 11/11/73
ENG. OPER. *[Signature]*
APPROVED *[Signature]*
L. D'ARCY Dec 12/73
SCALE AS NOTED
DRAWING NO. **746**



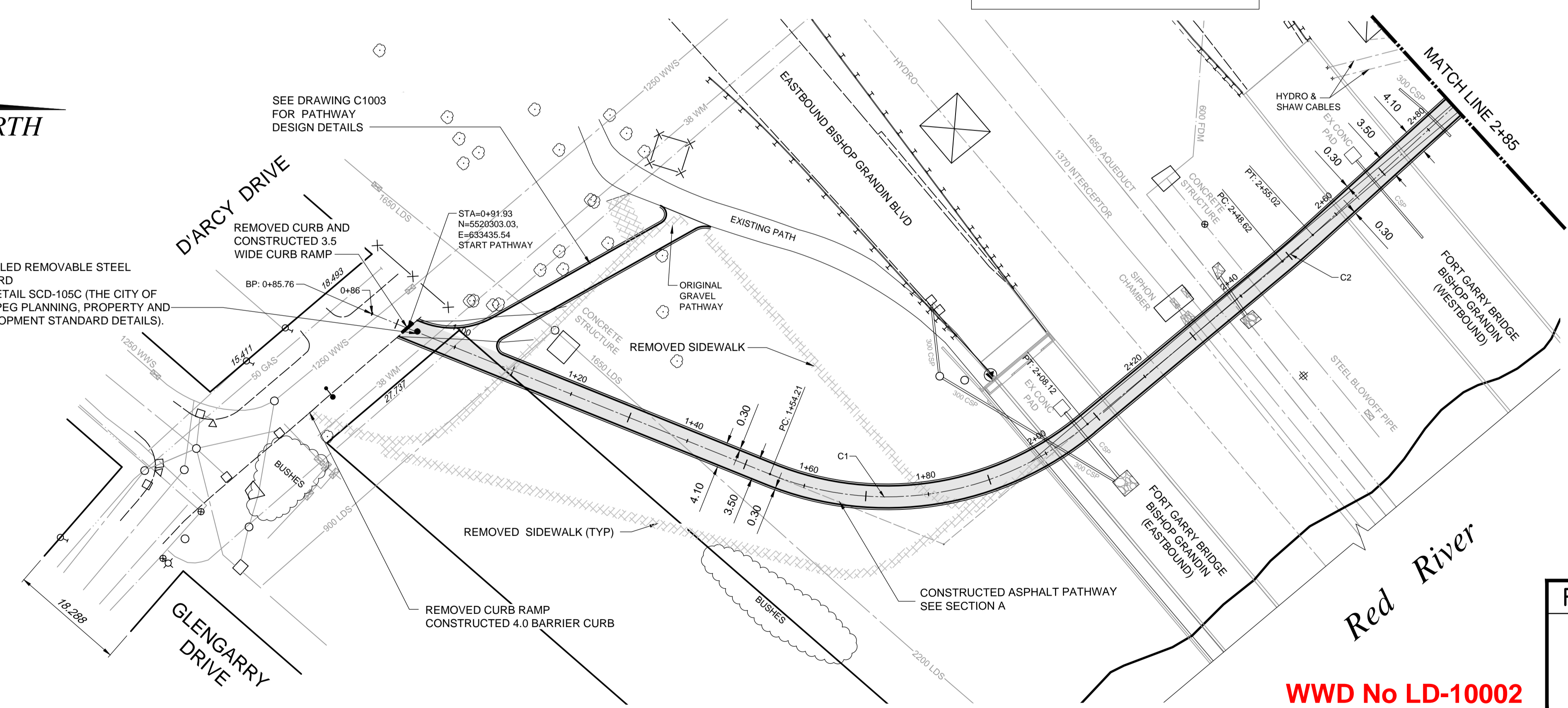
A TYPICAL PATH SECTION
HOR 1:50, VER 1:20

CHAINAGE IS ALONG CENTRELINE OF PATHWAY.



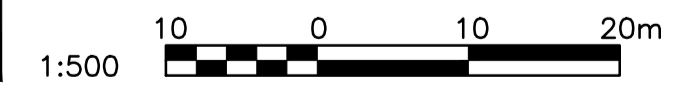
CURVE ID	RADIUS	LENGTH	TANGENT	DELTA	BC NORTHING, EASTING	EC NORTHING, EASTING	START STATION	END STATION
C1	50.00	53.90	29.90	61.77	N5520349.47, E633477.06	N5520399.87, E633486.78	1+54.21	2+08.12
C2	150.00	6.41	3.20	2.45	N5520437.94, E633472.95	N5520443.91, E633470.63	2+48.62	2+55.02

MATERIAL	MANUFACTURER
SUB-BASE (50mm CRUSHED CONCRETE)	ROCKY ROAD RECYCLING
BASE COURSE (20mm LIMESTONE)	INLAND CEMENT
GEOTEXTILE (GEOTEX 801)	PROPEX
ASPHALT	MAPLE LEAF CONSTRUCTION
CONCRETE	BUILDING PRODUCTS & CONC SUPPLY



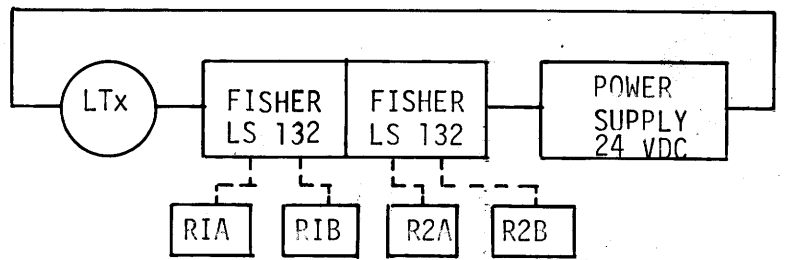
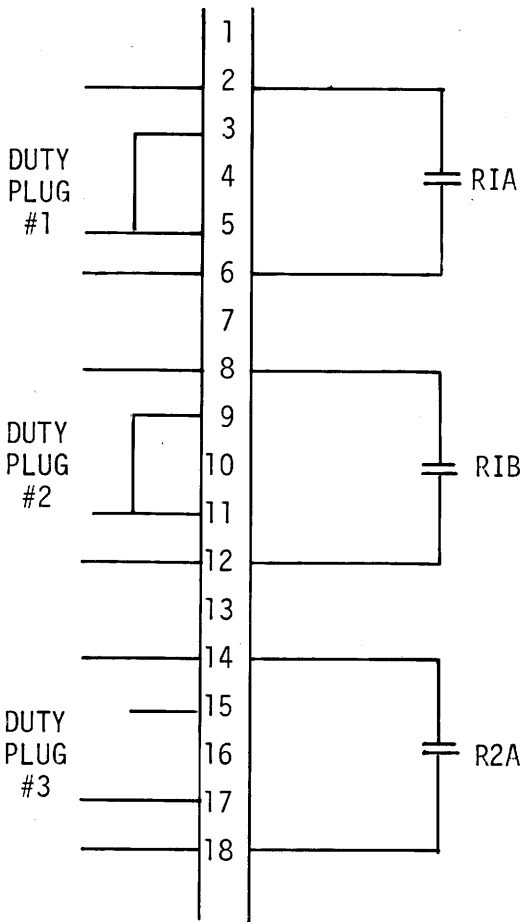
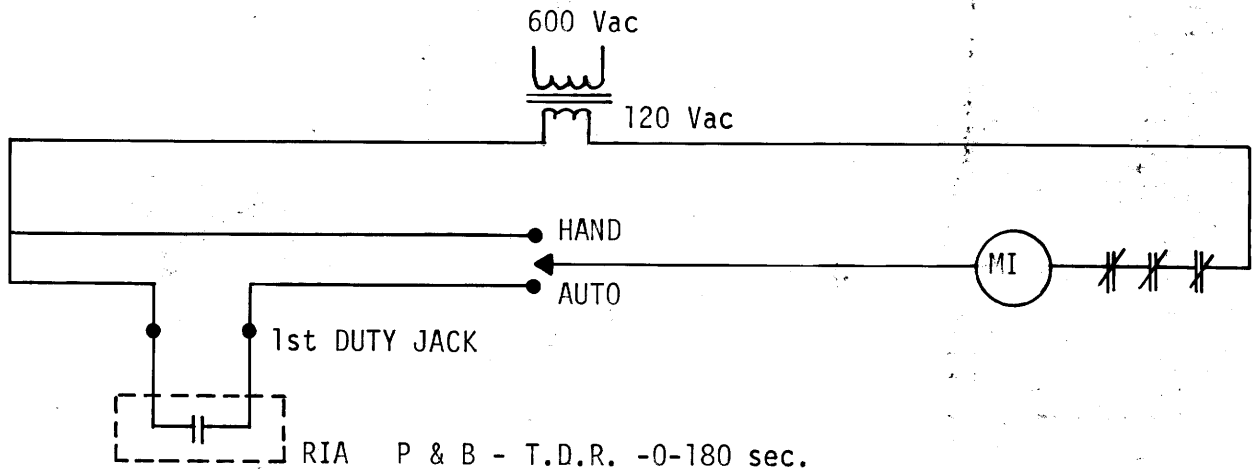
DATE YY.MM.DD	2016.04.25
DRAFTED BY	BDP
FIELD INFO BY	NC
CHECKED BY	GC

JUNE 2014 TO JULY 2014



EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATERMAIN	150 WM	SWALE	MANHOLE	RIGHT-OF-WAY	400 FM	FEEDERMAIN	400 FM
300 LDS	LAND DRAINAGE SEWER	300 LDS	CATCHBASIN	HYDRO	GAS	250 WWS	WASTEWATER SEWER	250 WWS
250 WWS	WASTEWATER SEWER	250 WWS	HYDRO BOX	MTS	HYDRO	300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS	HYDRO POLE	DETECTABLE WARNING TILE	CONCRETE	200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM	LIGHT STANDARD	ELEVATION	ASPHALT	300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS	ANCHOR	SIDEWALK	CONCRETE	200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM	TREE	CURB	ASPHALT	300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS	SURVEY BAR	CONCRETE	ASPHALT	200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM	SIGNAL CONTROLLER	CONCRETE	CONCRETE	150 WM	WATERMAIN	150 WM
150 WM	WATERMAIN	150 WM				400 FM	FEEDERMAIN	400 FM
400 FM	FEEDERMAIN	400 FM				300 LDS	LAND DRAINAGE SEWER	300 LDS
300 LDS	LAND DRAINAGE SEWER	300 LDS				250 WWS	WASTEWATER SEWER	250 WWS
250 WWS	WASTEWATER SEWER	250 WWS				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				150 WM	WATERMAIN	150 WM
150 WM	WATERMAIN	150 WM				400 FM	FEEDERMAIN	400 FM
400 FM	FEEDERMAIN	400 FM				300 LDS	LAND DRAINAGE SEWER	300 LDS
300 LDS	LAND DRAINAGE SEWER	300 LDS				250 WWS	WASTEWATER SEWER	250 WWS
250 WWS	WASTEWATER SEWER	250 WWS				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				150 WM	WATERMAIN	150 WM
150 WM	WATERMAIN	150 WM				400 FM	FEEDERMAIN	400 FM
400 FM	FEEDERMAIN	400 FM				300 LDS	LAND DRAINAGE SEWER	300 LDS
300 LDS	LAND DRAINAGE SEWER	300 LDS				250 WWS	WASTEWATER SEWER	250 WWS
250 WWS	WASTEWATER SEWER	250 WWS				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				150 WM	WATERMAIN	150 WM
150 WM	WATERMAIN	150 WM				400 FM	FEEDERMAIN	400 FM
400 FM	FEEDERMAIN	400 FM				300 LDS	LAND DRAINAGE SEWER	300 LDS
300 LDS	LAND DRAINAGE SEWER	300 LDS				250 WWS	WASTEWATER SEWER	250 WWS
250 WWS	WASTEWATER SEWER	250 WWS				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				150 WM	WATERMAIN	150 WM
150 WM	WATERMAIN	150 WM				400 FM	FEEDERMAIN	400 FM
400 FM	FEEDERMAIN	400 FM				300 LDS	LAND DRAINAGE SEWER	300 LDS
300 LDS	LAND DRAINAGE SEWER	300 LDS				250 WWS	WASTEWATER SEWER	250 WWS
250 WWS	WASTEWATER SEWER	250 WWS				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				150 WM	WATERMAIN	150 WM
150 WM	WATERMAIN	150 WM				400 FM	FEEDERMAIN	400 FM
400 FM	FEEDERMAIN	400 FM				300 LDS	LAND DRAINAGE SEWER	300 LDS
300 LDS	LAND DRAINAGE SEWER	300 LDS				250 WWS	WASTEWATER SEWER	250 WWS
250 WWS	WASTEWATER SEWER	250 WWS				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				150 WM	WATERMAIN	150 WM
150 WM	WATERMAIN	150 WM				400 FM	FEEDERMAIN	400 FM
400 FM	FEEDERMAIN	400 FM				300 LDS	LAND DRAINAGE SEWER	300 LDS
300 LDS	LAND DRAINAGE SEWER	300 LDS				250 WWS	WASTEWATER SEWER	250 WWS
250 WWS	WASTEWATER SEWER	250 WWS				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				150 WM	WATERMAIN	150 WM
150 WM	WATERMAIN	150 WM				400 FM	FEEDERMAIN	400 FM
400 FM	FEEDERMAIN	400 FM				300 LDS	LAND DRAINAGE SEWER	300 LDS
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300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				150 WM	WATERMAIN	150 WM
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400 FM	FEEDERMAIN	400 FM				300 LDS	LAND DRAINAGE SEWER	300 LDS
300 LDS	LAND DRAINAGE SEWER	300 LDS				250 WWS	WASTEWATER SEWER	250 WWS
250 WWS	WASTEWATER SEWER	250 WWS				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				150 WM	WATERMAIN	150 WM
150 WM	WATERMAIN	150 WM				400 FM	FEEDERMAIN	400 FM
400 FM	FEEDERMAIN	400 FM				300 LDS	LAND DRAINAGE SEWER	300 LDS
300 LDS	LAND DRAINAGE SEWER	300 LDS				250 WWS	WASTEWATER SEWER	250 WWS
250 WWS	WASTEWATER SEWER	250 WWS				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				150 WM	WATERMAIN	150 WM
150 WM	WATERMAIN	150 WM				400 FM	FEEDERMAIN	400 FM
400 FM	FEEDERMAIN	400 FM				300 LDS	LAND DRAINAGE SEWER	300 LDS
300 LDS	LAND DRAINAGE SEWER	300 LDS				250 WWS	WASTEWATER SEWER	250 WWS
250 WWS	WASTEWATER SEWER	250 WWS				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				150 WM	WATERMAIN	150 WM
150 WM	WATERMAIN	150 WM				400 FM	FEEDERMAIN	400 FM
400 FM	FEEDERMAIN	400 FM				300 LDS	LAND DRAINAGE SEWER	300 LDS
300 LDS	LAND DRAINAGE SEWER	300 LDS				250 WWS	WASTEWATER SEWER	250 WWS
250 WWS	WASTEWATER SEWER	250 WWS				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				150 WM	WATERMAIN	150 WM
150 WM	WATERMAIN	150 WM				400 FM	FEEDERMAIN	400 FM
400 FM	FEEDERMAIN	400 FM				300 LDS	LAND DRAINAGE SEWER	300 LDS
300 LDS	LAND DRAINAGE SEWER	300 LDS				250 WWS	WASTEWATER SEWER	250 WWS
250 WWS	WASTEWATER SEWER	250 WWS				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				150 WM	WATERMAIN	150 WM
150 WM	WATERMAIN	150 WM				400 FM	FEEDERMAIN	400 FM
400 FM	FEEDERMAIN	400 FM				300 LDS	LAND DRAINAGE SEWER	300 LDS
300 LDS	LAND DRAINAGE SEWER	300 LDS				250 WWS	WASTEWATER SEWER	250 WWS
250 WWS	WASTEWATER SEWER	250 WWS				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				300 CS	COMBINED SEWER	300 CS
300 CS	COMBINED SEWER	300 CS				200 FCM	FORCEMAIN	200 FCM
200 FCM	FORCEMAIN	200 FCM				150 WM	WATERMAIN	150 WM

- TYPICAL PUMP - 1



DUTY SETTINGS

#3	ON	60"	10.40mA
#2	ON	54"	9.76
#1	ON	48"	9.12
#3	OFF	30"	7.20mA
#2	OFF	24"	6.56
#1	OFF	18"	5.92

REFER DRAWING #740
DARCY PUMP STATION

T.S. LOCATED
AT DISTRIBUTION CENTRE



**THE CITY OF
WINNIPEG**

**WORKS & OPERATIONS DEPARTMENT
WATERWORKS, WASTE & DISPOSAL DIVISION**

DARCY LIFT STATION
PUMP CONTROL, DUTY SELECTION

DESIGNED BY
B.R.

DRAWN BY
M.S.

SCALE

CHECKED BY

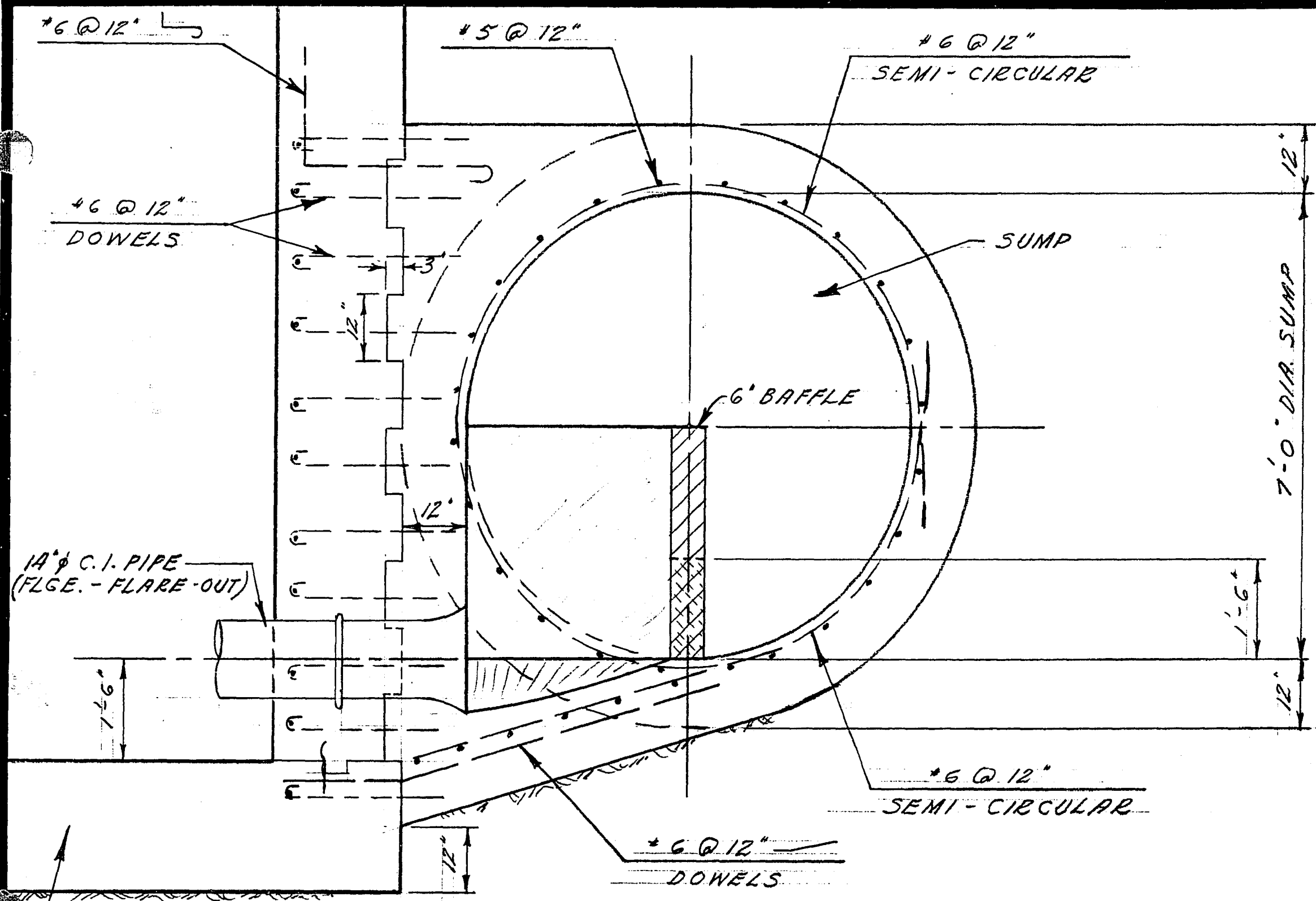
DATE

DRAWING NO.

APPROVED BY

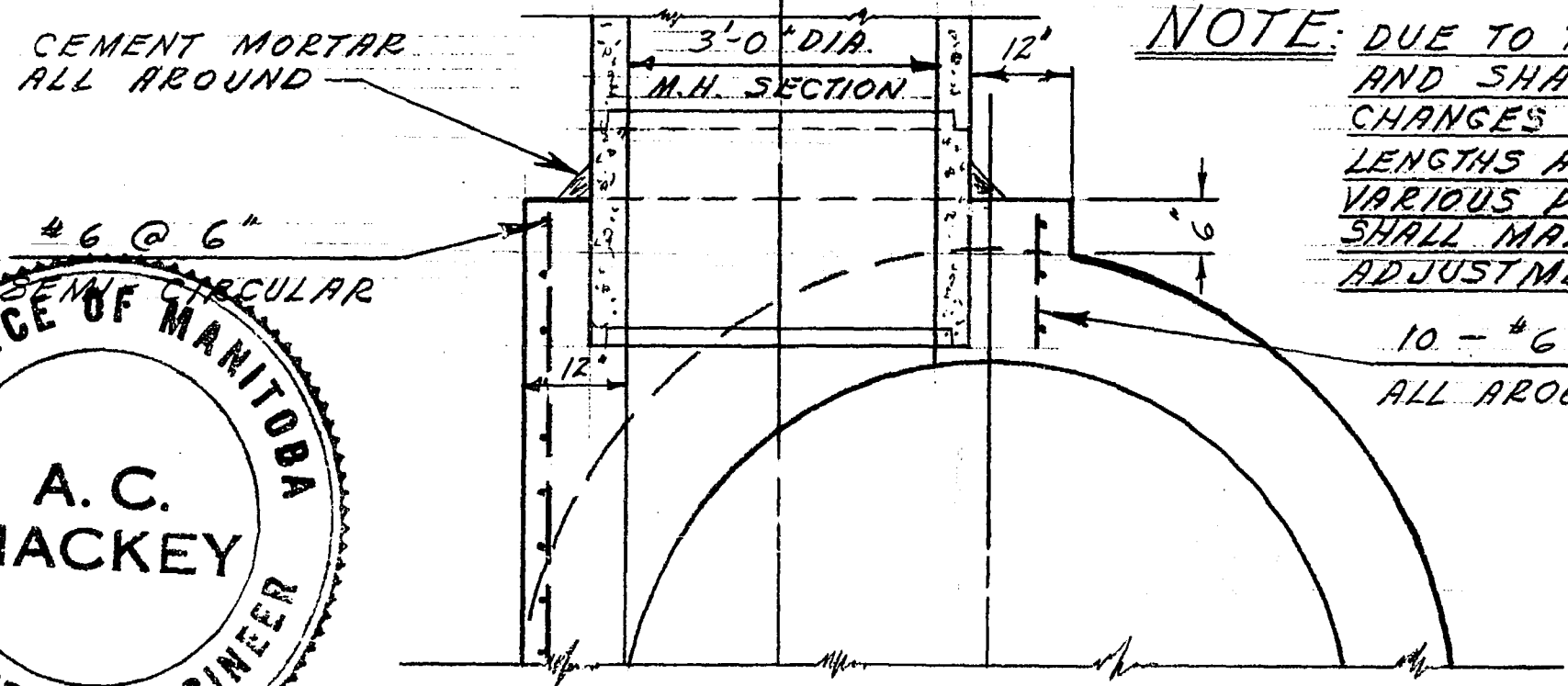
L-S-34

FILE # MS 12496



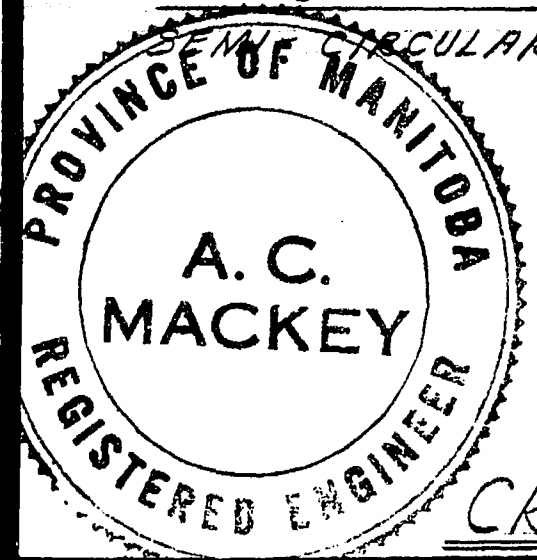
NOTE: LENGTH OF SUMP REMAINS THE SAME. (45 FT.)

SEC. "D-D"
 (CROSS-SECTION LOOKING WEST)



NOTE: DUE TO THE DIFFERENT SIZE AND SHAPE OF THE SUMP CHANGES SHALL OCCUR IN LENGTHS AND LOCATIONS OF VARIOUS PIPING. CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS TO SUIT.

10 - #6 DOWELS
 ALL AROUND OPENING



CROSS-SECTION AT SUMP M.H.

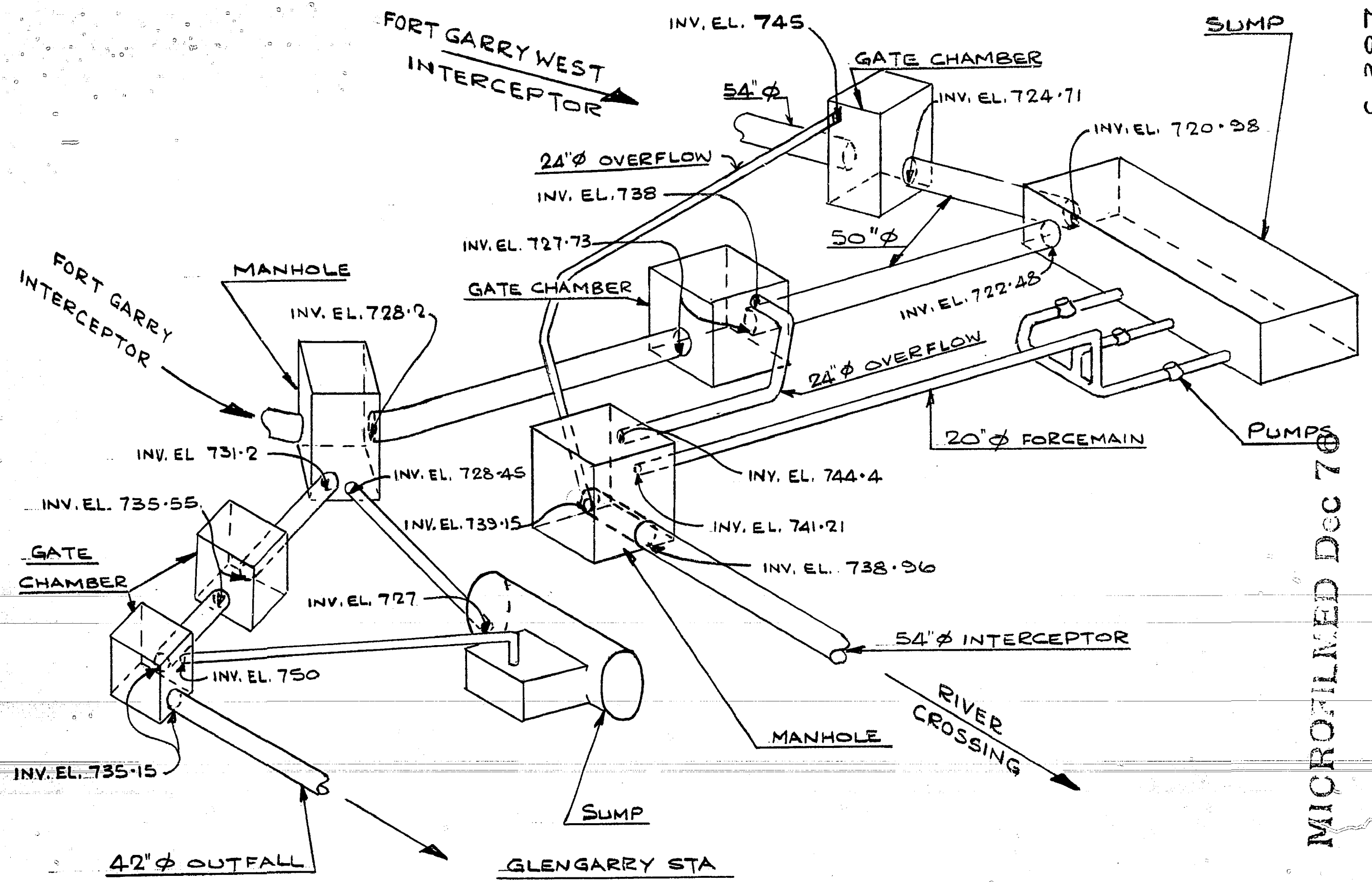
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS & WASTE DISPOSAL DIVISION
 A. PENMAN - DIRECTOR

SEWAGE DISPOSAL DEPT.
D'ARCY PUMPING STATION
 DETAILS OF
 ALTERNATIVE
 7'-0" DIA. CIRCULAR SUMP

DES. *[Signature]* CH'K'D. *[Signature]*
 DRN. *S.K.* DATE *19 JUNE 72*
 ENG. DES. *[Signature]*
 ENG. OPER. *[Signature]*
 APPROVED *[Signature]*

SCALE
 3/8" = 1'-0"
 DRAWING NO.
S-366

D'ARCY STATION



S-387

MICROFILMED DEC 70

