

CONSTRUCTION NOTES:

1. REMOVED AND DISPOSE OF CONSTRUCTION MATERIALS FROM SITE DAILY.
2. PROVIDED TEMPORARY SECURITY FENCE AROUND CONSTRUCTION INCLUDING EQUIPMENT AND MATERIALS AT ALL TIMES.

NOTES:

1. THIS DRAWING WAS ONLY A SKETCH BASED ON THE EXISTING DRAWINGS. THE LOCATION OF UNDERGROUND STRUCTURES AND DIMENSIONS ARE NOT EXACT.
2. THE CONTRACTOR WAS RESPONSIBLE FOR CONFIRMING ALL DIMENSIONS AND CONFIRMING, THE LOCATION OF THE BURIED UTILITIES PRIOR TO ASSOCIATED CONSTRUCTION.

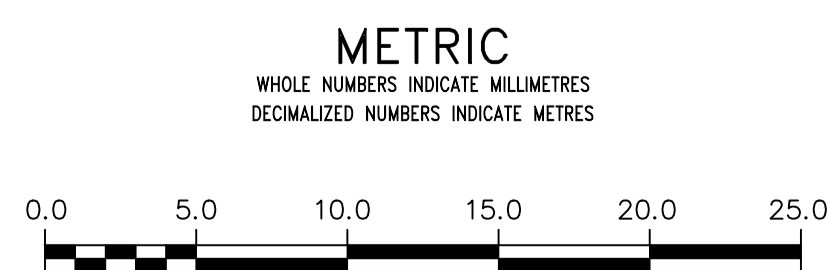
FOR INDEX SEE
1-0110A-D0006-001

SITE PLAN

CONTRACTOR: ROCKY ROAD RECYCLING

RECORD DRAWING
WATER AND WASTE DEPARTMENT

CONSTRUCTION COMPLETION
DATE: 18/04/20



WARNING
IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
SEE PROVINCIAL REGULATION 21072 FOR DETAILS

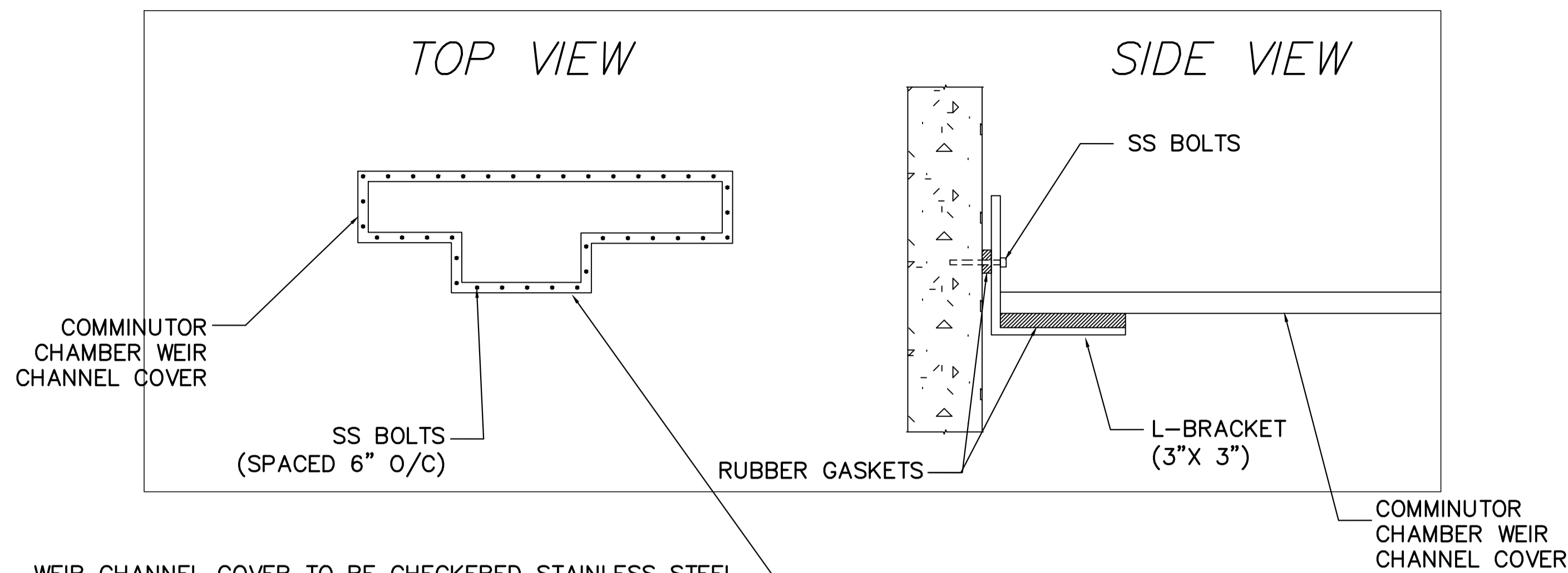
LOCATION APPROVED
UNDERGROUND STRUCTURES
SUPV. U/G STRUCTURES COMMITTEE DATE
NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M. ELEV.	NO.	REVISIONS	DATE	BY
	1	REVISED TO RECORD DWG	18/08/15	RS

DESIGNED BY	TS	CHECKED BY	SC
DRAWN BY	RS	APPROVED BY	KZ
SCALE:		RELEASED FOR CONSTRUCTION	
HORIZONTAL	1:1000		
VERTICAL	1:1000		
DATE	2019 11 19	DATE	--

ENGINEER'S SEAL
ORIGINAL MYLAR
SIGNED BY
S.R.J
COURNOYER
19/11/18
CONSULTANT DRAWING NUMBER

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION
2017 COMMUNUTOR CHAMBER PIPING & VALVE UPGRADES SITE PLAN
TYLEHURST LIFT STATION
TYLEHURST STREET AT
WOLSELEY AVENUE WEST
SHEET 9 OF 10
CITY DRAWING NUMBER
1-0193L-G0001-001



WEIR CHANNEL COVER TO BE CHECKERED STAINLESS STEEL, MECHANICALLY SEALED, AIRTIGHT WITH SS BOLTS AND RUBBER GASKET APPROVED FOR USE WITH SEWAGE. SS COVER MUST HOLD 250 LBS LIVE LOAD.

WEIR CHANNEL COVER DETAIL
(TYPICAL)
NTS

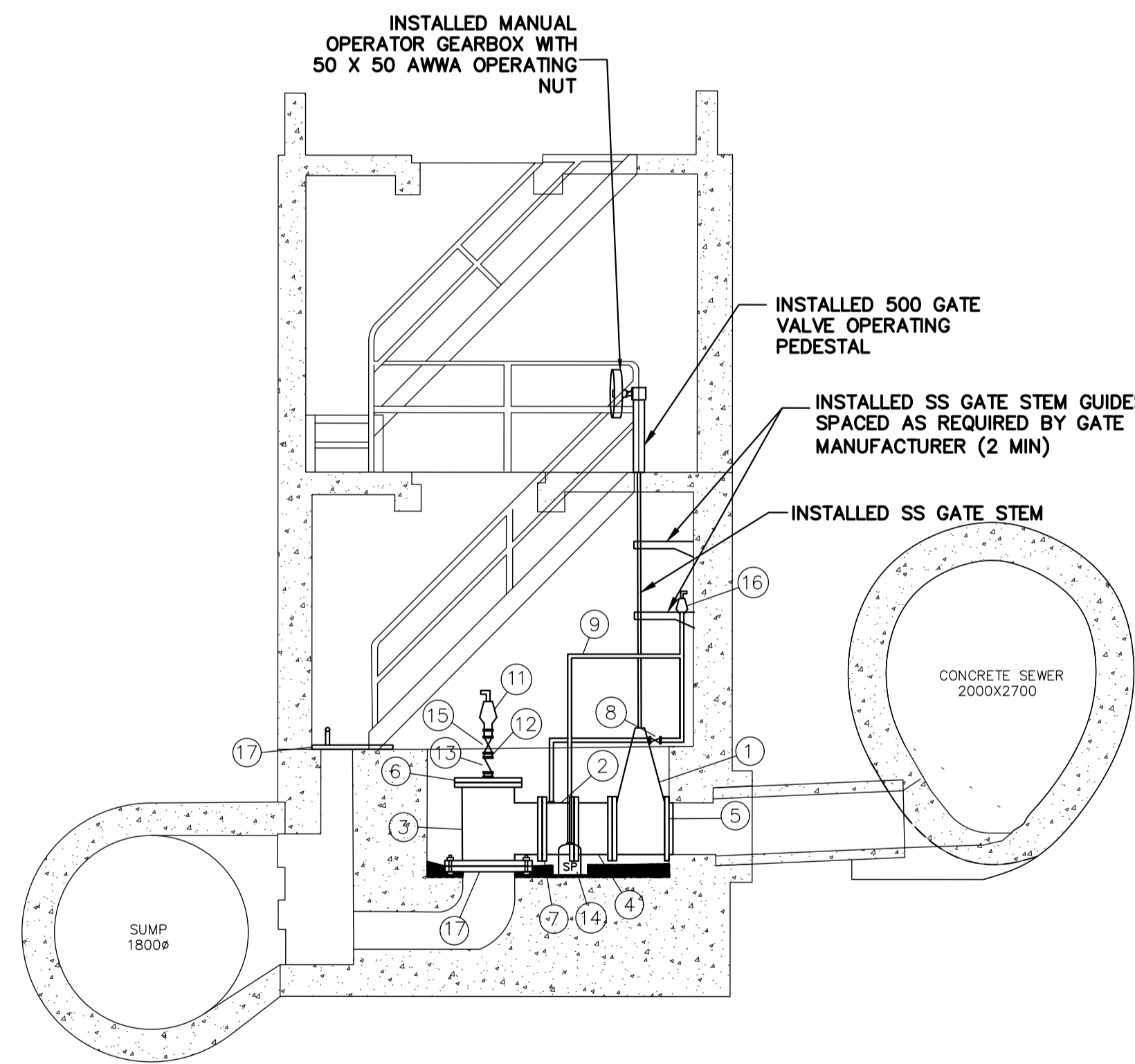
MATERIALS SEWER							
ITEM	DESCRIPTION	MATERIAL	MANUFACTURER	END	LENGTH	QUANTITY	TYPE
1	500# VALVE/ASSEMBLY	CAST IRON		FL	3462±	1	
2	500# PIPE	CAST IRON		FL+PE	768±	1	
3	500# TEE	CAST IRON		FL		1	
4	500# BEND	CI				1	45°
5	500# FLANGED WALL THIMBLE	DI				2	
6	500# BLIND FLANGE	DI				2	
7	500# UNI-FLANGE	DI				1	
8	38# GATE VALVE	SS				1	
9	38# PIPE	ABS				1	
10	38# CHECK VALVE	SS					
11	75# ONE WAY AIR VALVE	SS/REINF. NYLON				1	
12	75# CHECK VALVE	BRASS				1	
13	75# PIPE	ABS				1	
14	SUMP PUMP					1	110V, MIN 1/3 HP
15	75# GATE VALVE	BRASS				1	
16	38# ONE WAY AIR VALVE	SS/REINF. NYLON				1	
17	500# PIPE FLANGE	DI				1	
18	WET WELL COVER					1	

CONTRACTOR: ROCKY ROAD RECYCLING

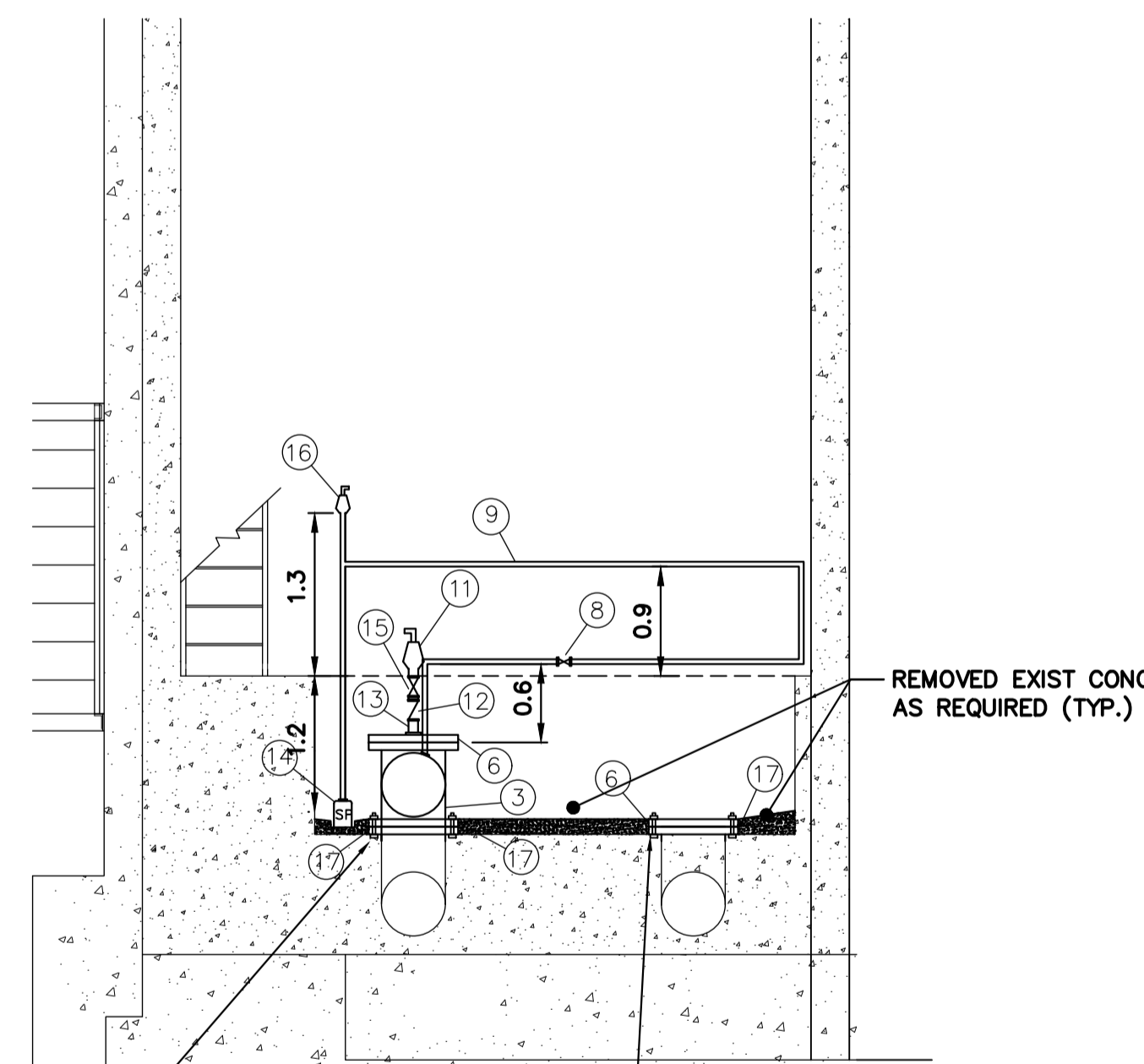
NOTE:
LENGTHS & DIMENSIONS SHOWN AS ± CONFIRMED BY CONTRACTOR
• ITEMS SUPPLIED BY CITY
- CONTRACTOR SUPPLIED CABLES & CONDUIT FROM SUMP PUMPS TO ELECTRICAL OUTLETS IN COMMUNOTOR ROOM
- VALVE PEDESTAL OPERATORS HAVE POSITION INDICATORS.

CONSTRUCTION NOTES:

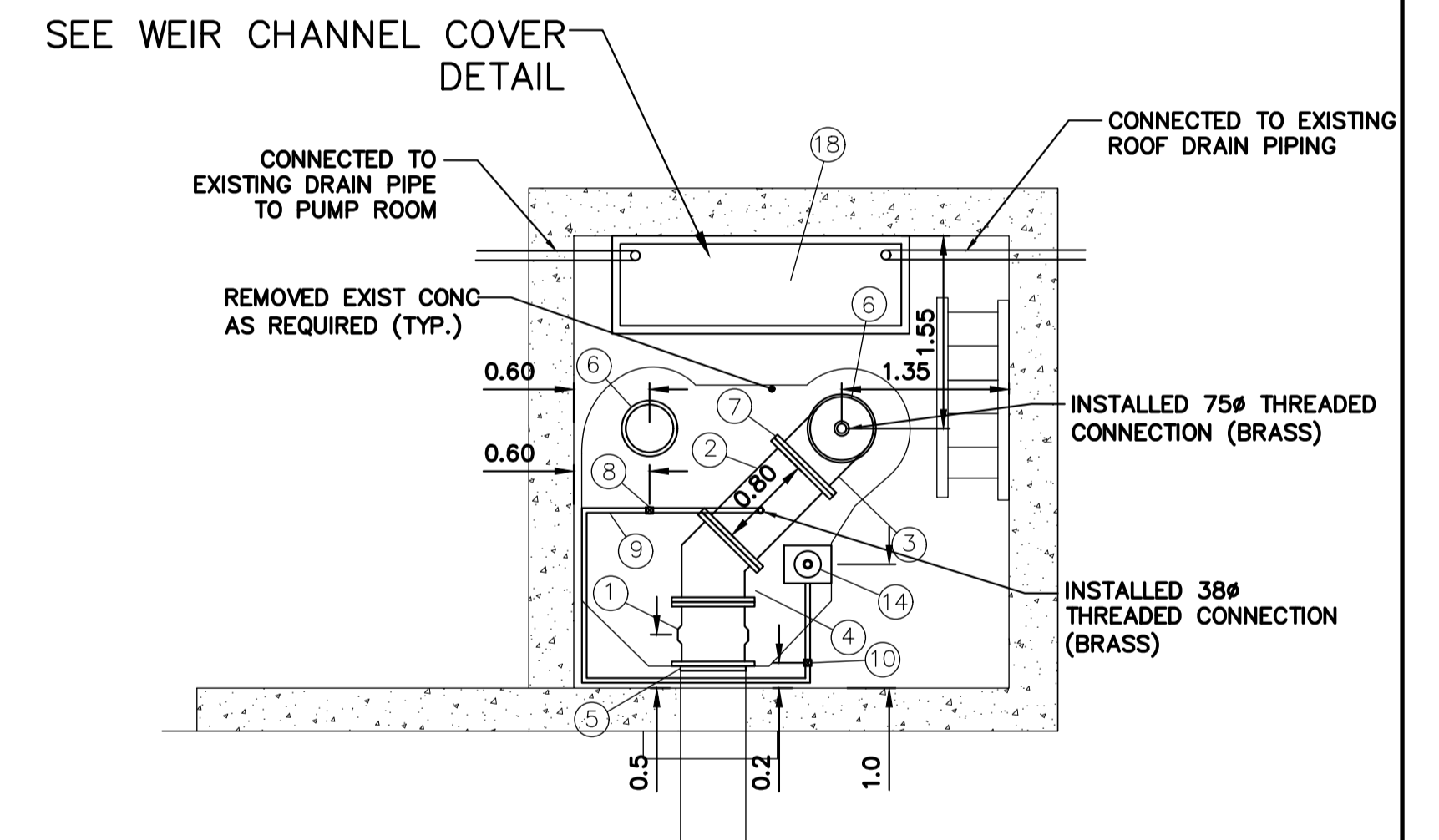
- ALLOWABLE SHUTDOWN TIME: MAX. 27.0 HRS OR AS DETERMINED BY COLLECTIONS STAFF
- CRITICAL BASEMENT ELEVATION: 228.600
- REMOVED EXISTING CONCRETE PIPING, VALVES, FITTINGS, AND OTHER MATERIALS AS REQUIRED. INSTALLED NEW PUMPS, MOTORS, PIPING, VALVES AND FITTINGS AS SHOWN.
- PROVIDED TEMPORARY BY-PASS PUMPING OF WASTEWATER DURING CONSTRUCTION.
- INSTALLED MECHANICAL WORKS AS INDICATED AND ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- EXCAVATIONS TO BE BACKFILLED WITH CLASS 3 OR CLASS 5 BACKFILLED IN ACCORDANCE WITH CW 2030 AND SD-002.
- FLANGE NUTS & BOLTS ARE ASTM A307.
- GASKETS ARE FULL FACED, 3 THICK RED RUBBER.
- CONTRACTOR TO CONFIRMED ALL DIMENSIONS BEFORE ASSEMBLING PIPE.
- ALL ANCHOR BOLTS ARE ASTM A276 TYPE 316 SS.



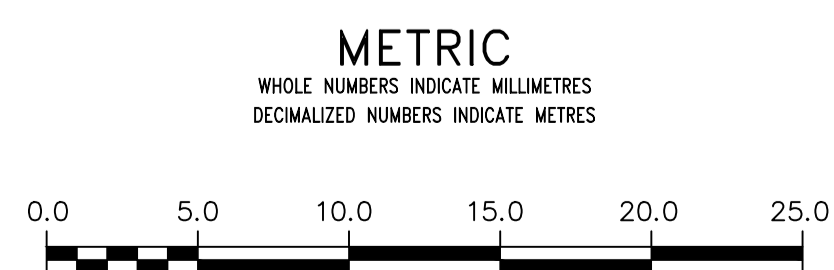
SIDE VIEW
1:2000



FRONT VIEW
1:2000



TOP VIEW
1:2000



CONSTRUCTION COMPLETION
DATE: 18/04/20

RECORD DRAWING
WATER AND WASTE DEPARTMENT

FOR INDEX SEE
1-0110A-D0006-001

LOCATION APPROVED UNDERGROUND STRUCTURES		B.M. ELEV.
SUPV. U/G STRUCTURES COMMITTEE	DATE	
NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.		
NO.	REVISIONS	DATE BY
1	REVISED TO RECORD DWG	18/08/15 RS

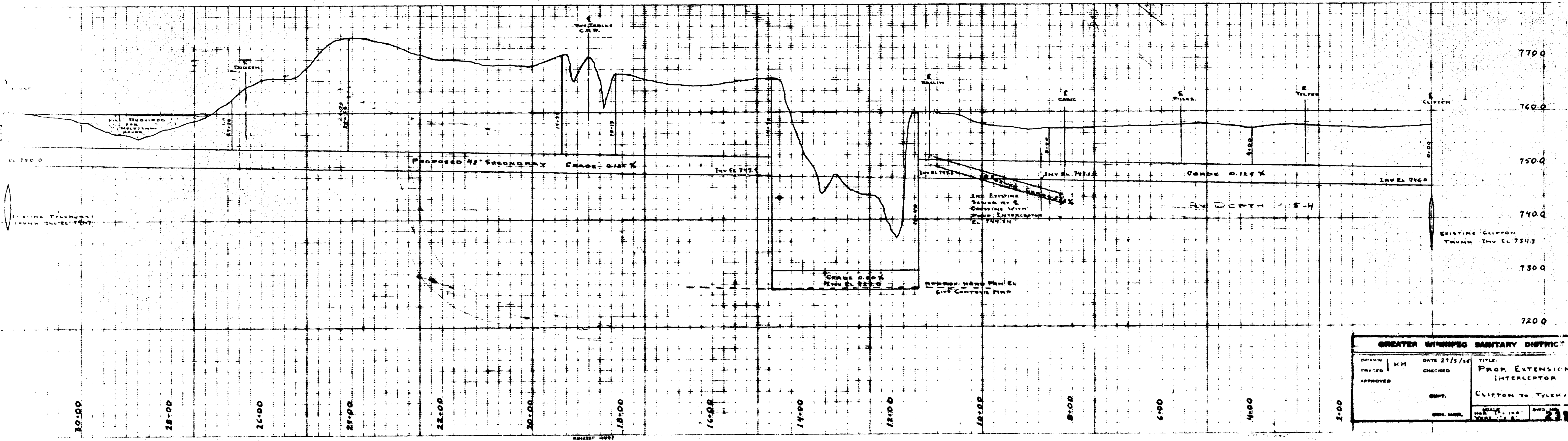
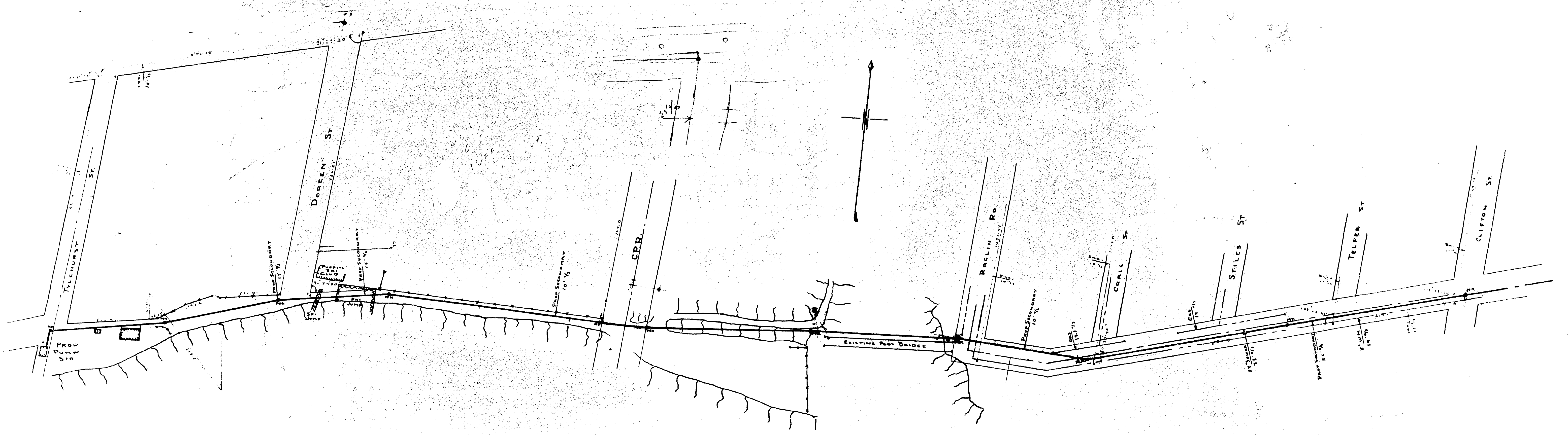
DESIGNED BY	TS	CHECKED BY	SC
DRAWN BY	RS	APPROVED BY	KZ
SCALE:		RELEASED FOR CONSTRUCTION	
HORIZONTAL	1:2000		
VERTICAL	1:2000		
DATE	2019 11 19	DATE	

ENGINEER'S SEAL
ORIGINAL MYLAR SIGNED BY S.R.J COURNOYER 19/11/18
CONSULTANT DRAWING NUMBER

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

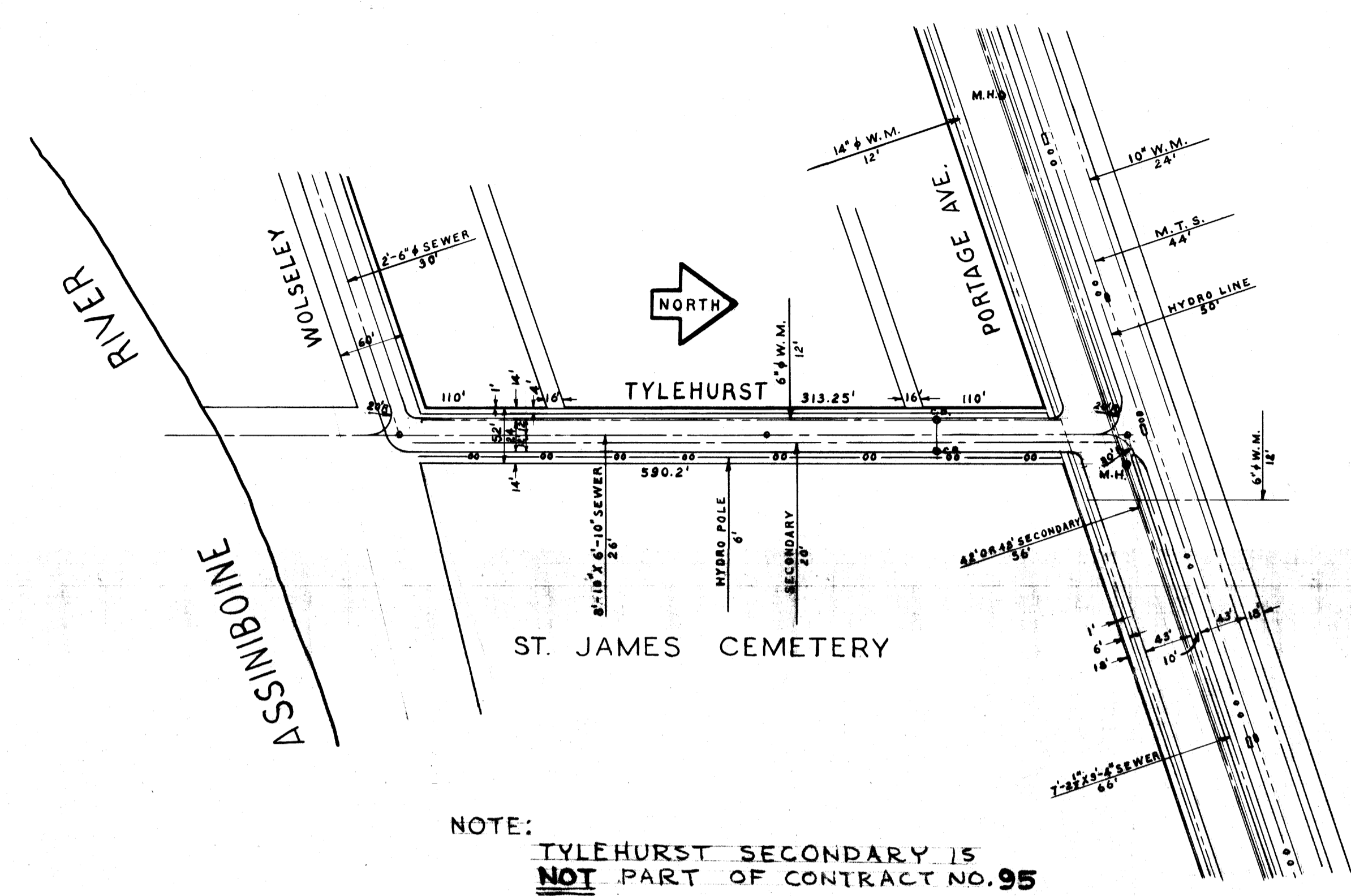
2017 COMMUNOTOR CHAMBER PIPING & VALVE UPGRADES
TYLEHURST LIFT STATION
TYLEHURST STREET AT WOLSELEY AVENUE WEST

SHEET 10 OF 10
CITY DRAWING NUMBER
1-0193L-M0001-001

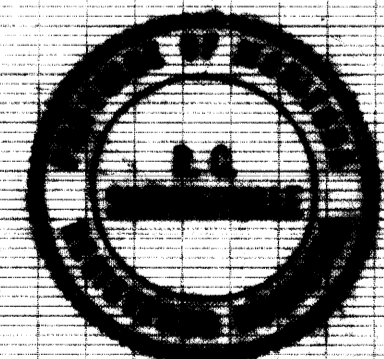
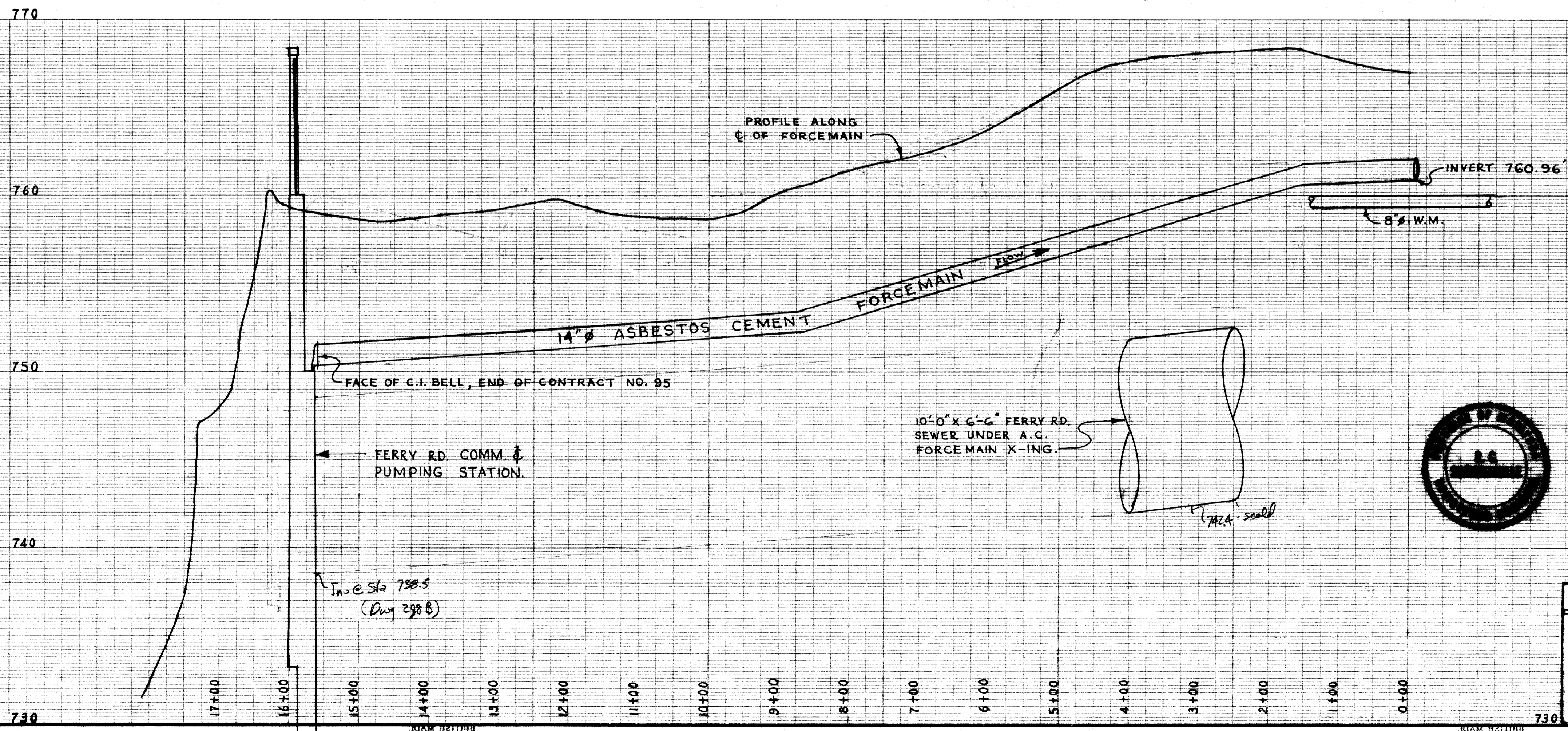
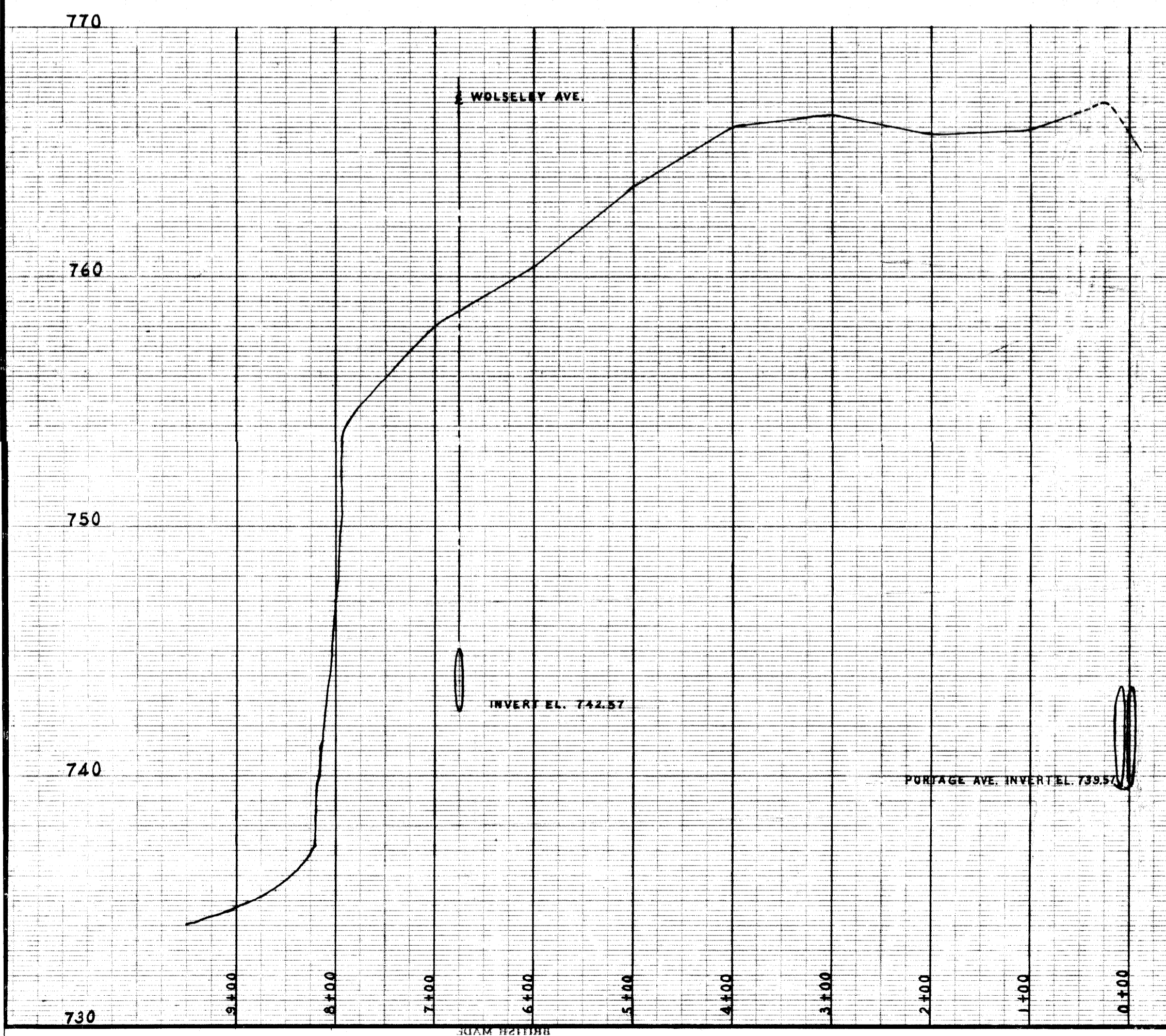
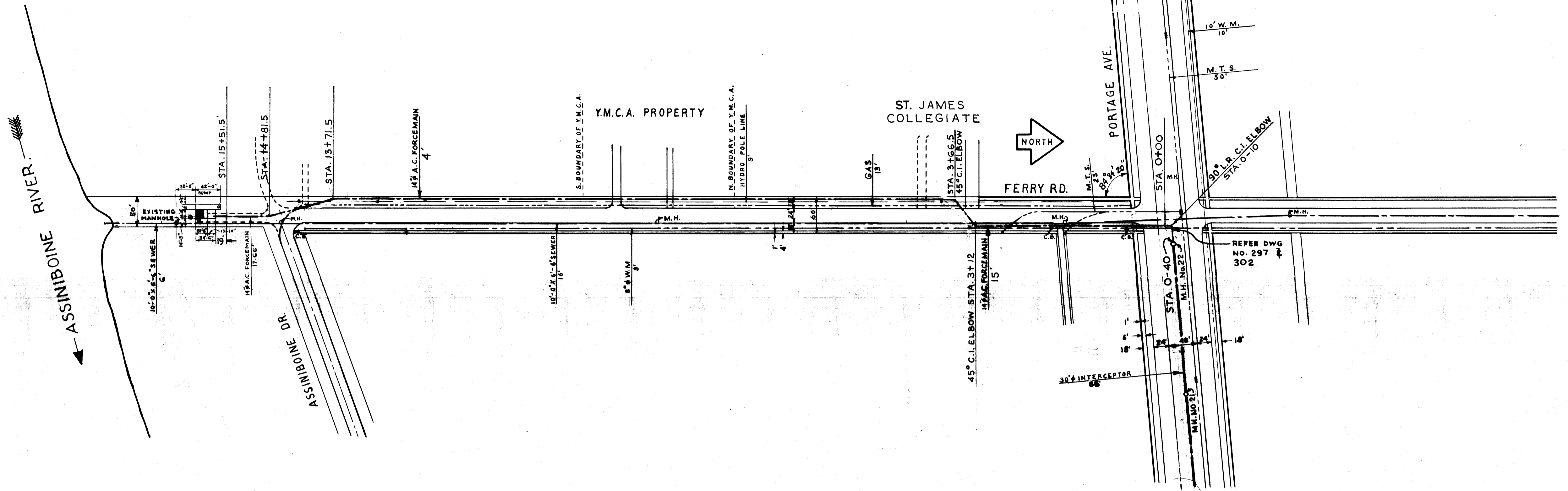


GREATER WINNIPEG SANITARY DISTRICT			
DRAWN	KH	DATE	27/5/56
TRACED		CHECKED	
APPROVED			
TITLE:			PROP. EXTENSION INTERCEPTOR
CLIFFTON TO TYLEHURST			
SCALE: 1" = 100'		SHEET 21	

file #
 FM 10023
 293
 REF. or DRAWING NO.
 DETAILS

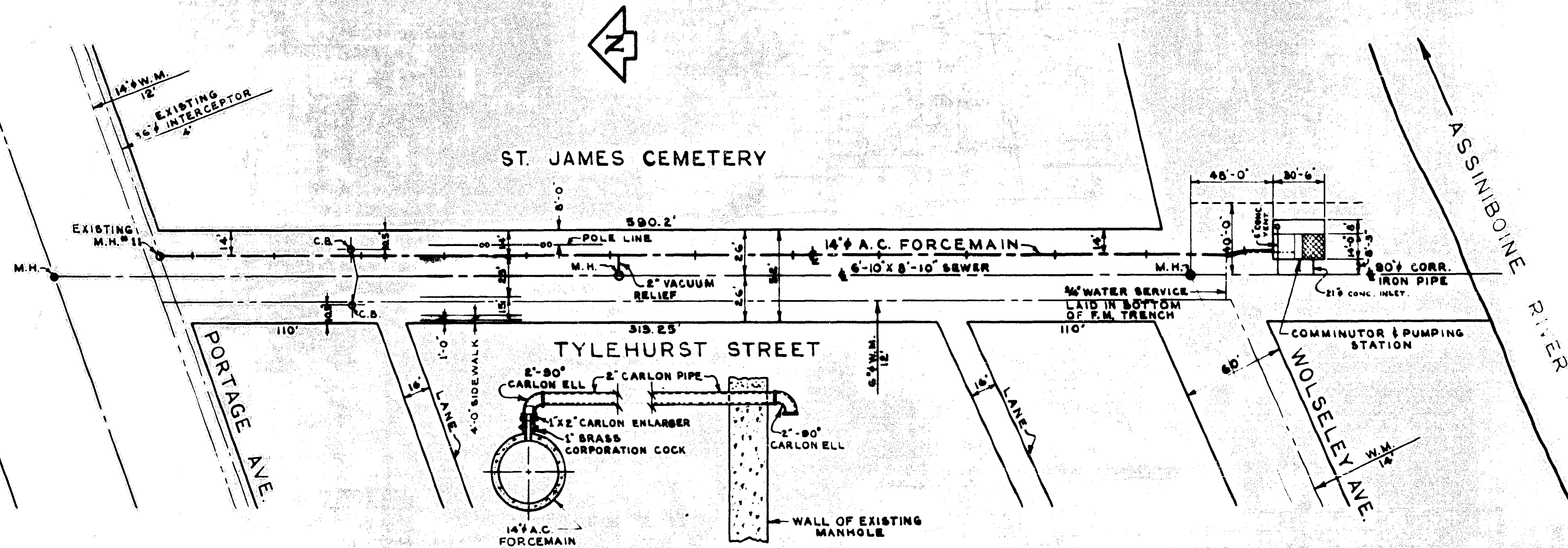


NOTE: TYLEHURST SECONDARY IS NOT PART OF CONTRACT NO. 95

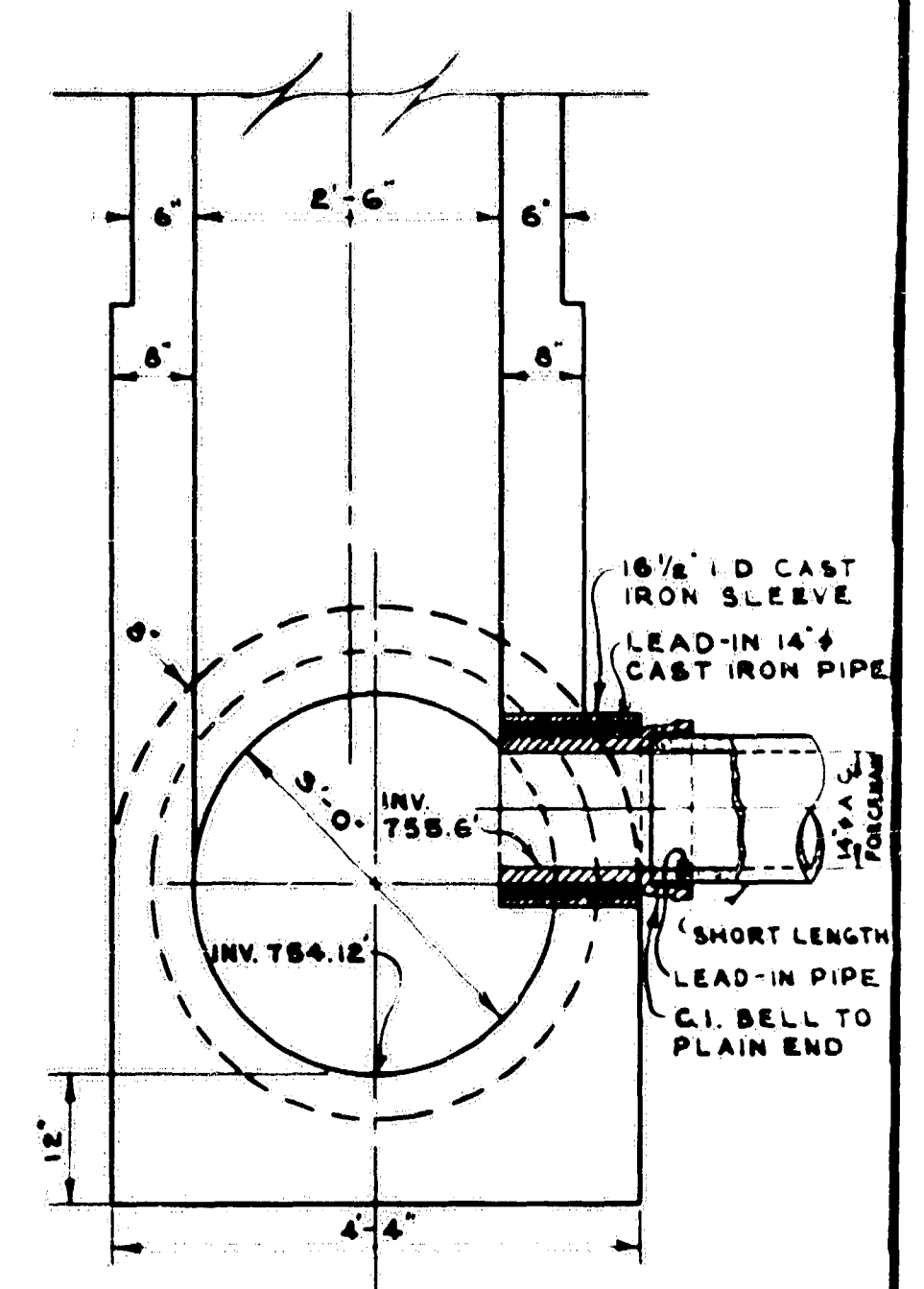


APPROVED FOR CONSTRUCTION
 Date JUN 13 1958
 Approval of this drawing covers only the design and arrangement of material, of equipment and does not in any way relieve the Contractor of any liability or responsibility.

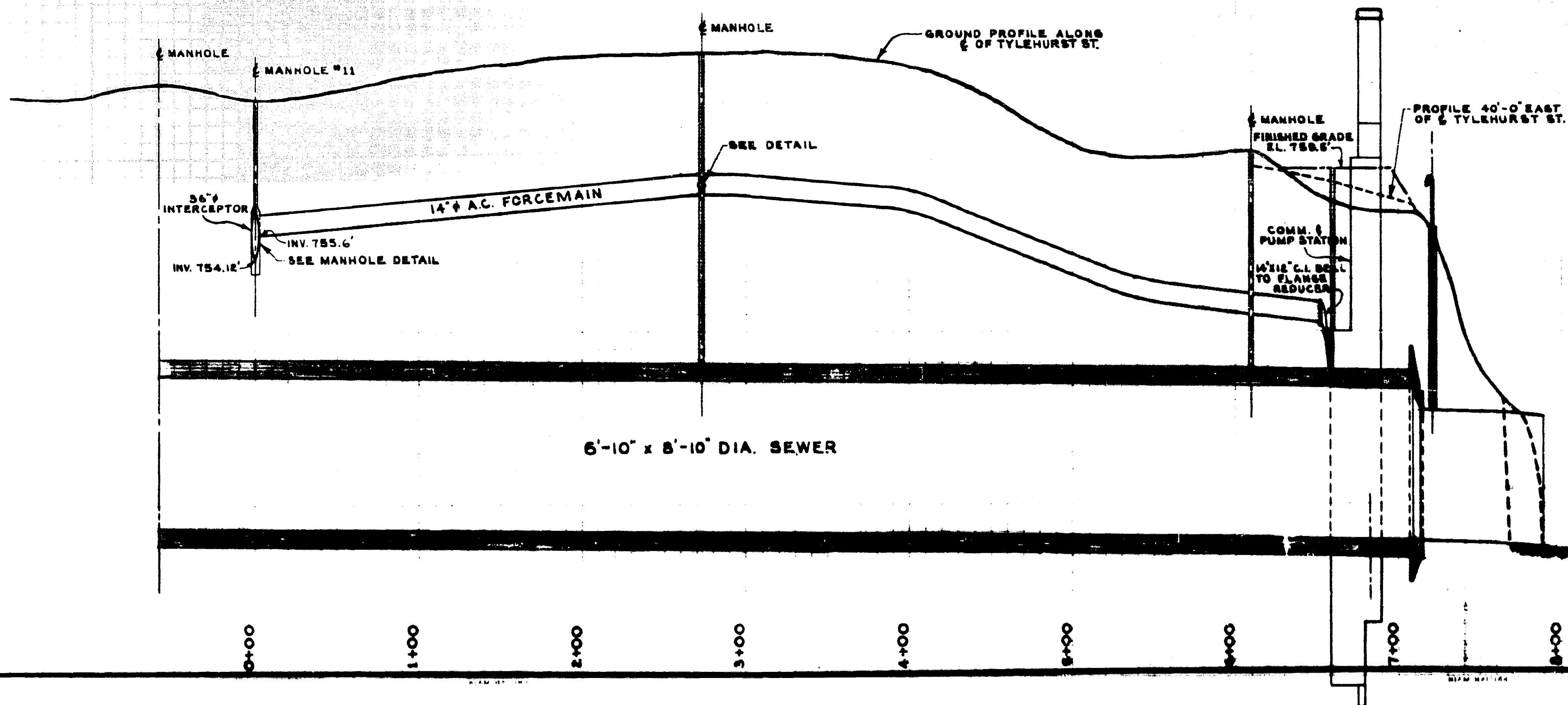
GREATHER WINNIPEG SANITARY DISTRICT
 DRAWN BY H.E.S.K. DATE - NOV. 12/57
 CHECKED G.E.S.
 APPROVED
 TITLE: PLAN PROFILE OF TYLEHURST & FERRY RD.
 SCALE: HORIZ. - 1"=100' VERT. - 1"=4'
 DWG. NO. 293



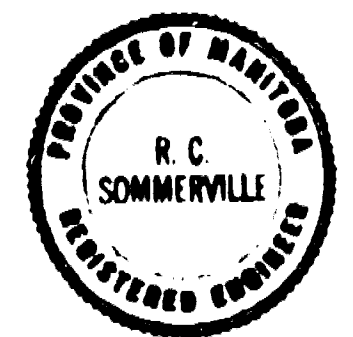
DETAIL OF VACUUM RELIEF
 LOOKING SOUTH
 SCALE - 3/4 INCH = 1 FOOT



DETAIL OF MANHOLE NO. 11
 LOOKING EAST
 SCALE - 3/4 INCH = 1 FOOT



GREATER WINNIPEG WATER & SANITARY DISTRICT
APPROVED FOR CONSTRUCTION
 Date JAN 1 1958
 Approval of this drawing covers only the general design and arrangement of material or equipment and does not in any way relieve the Contractor of any liability or responsibility for the satisfactory operation of this construction.



REVISIONS			
NO.	DESCRIPTION	DATE	BY

GREATER WINNIPEG SANITARY DISTRICT
 SECONDARY SEWERS
 TYLEHURST COMM. & PUMP STA.
 PLAN PROFILE OF 14" FORCE MAIN

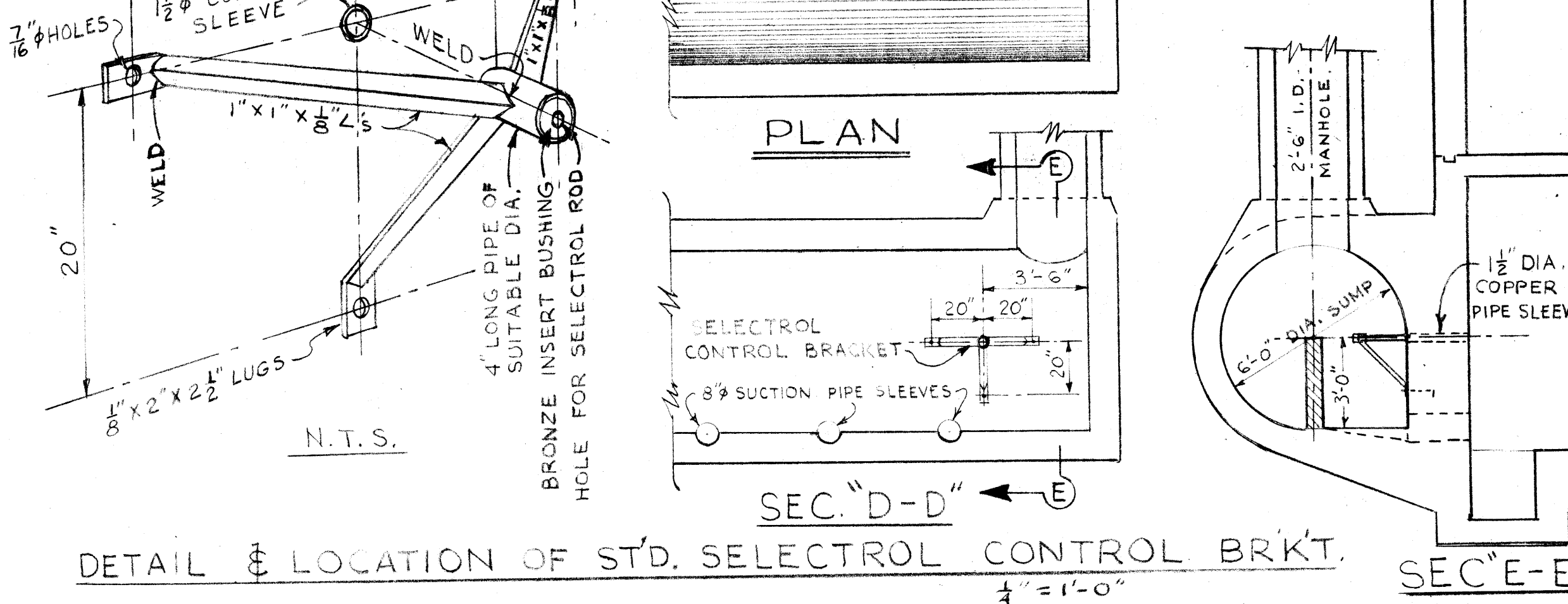
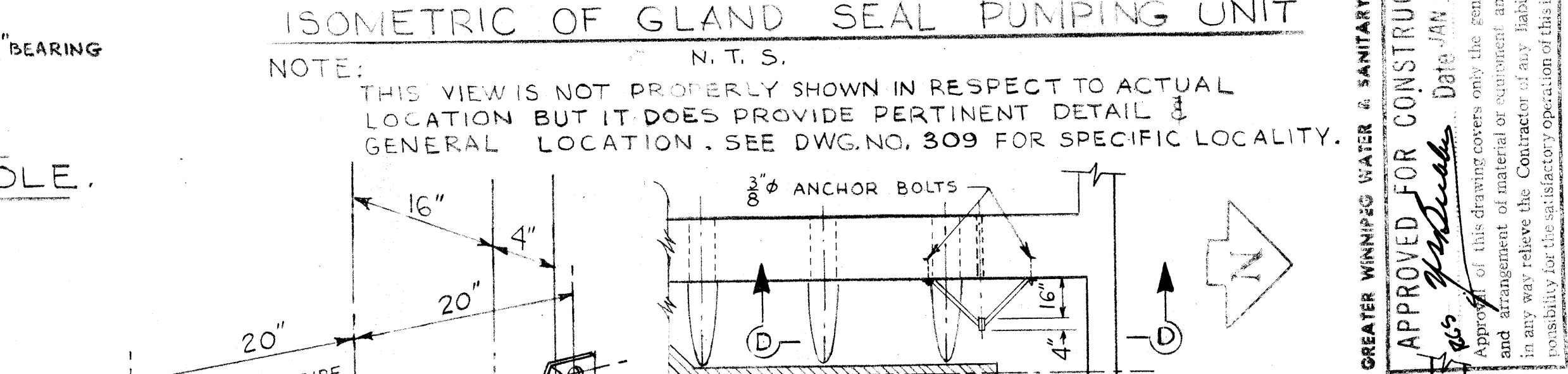
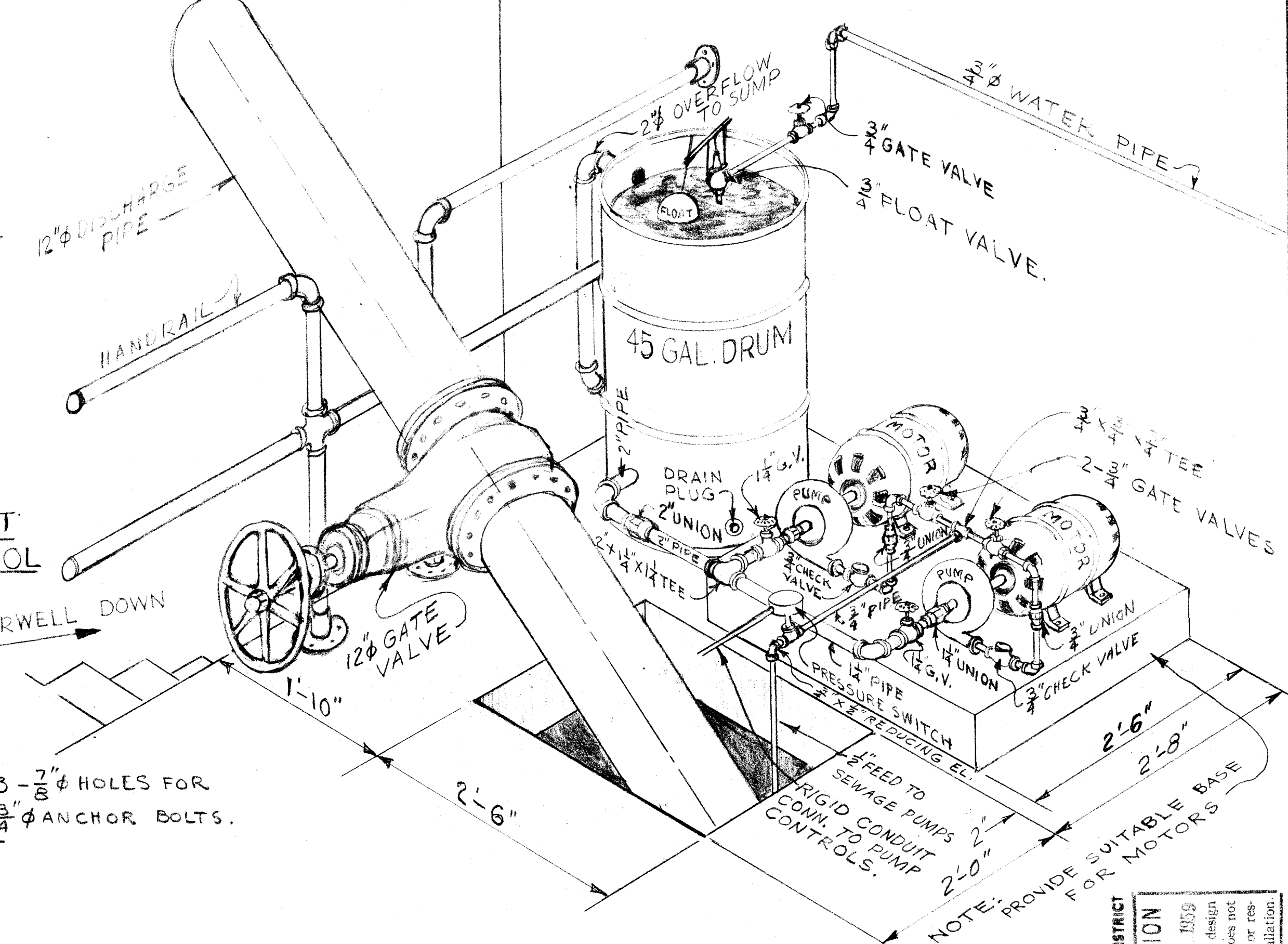
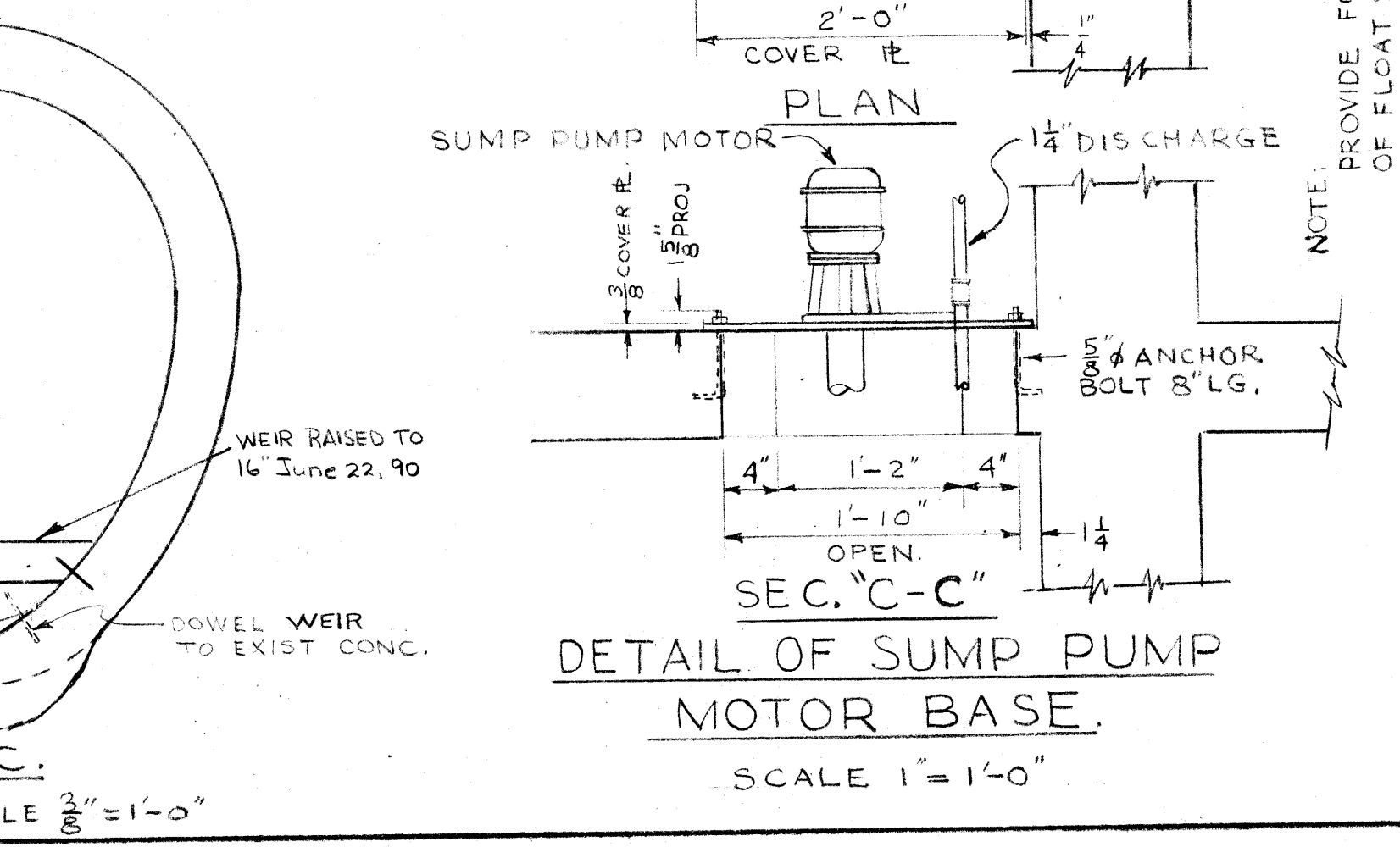
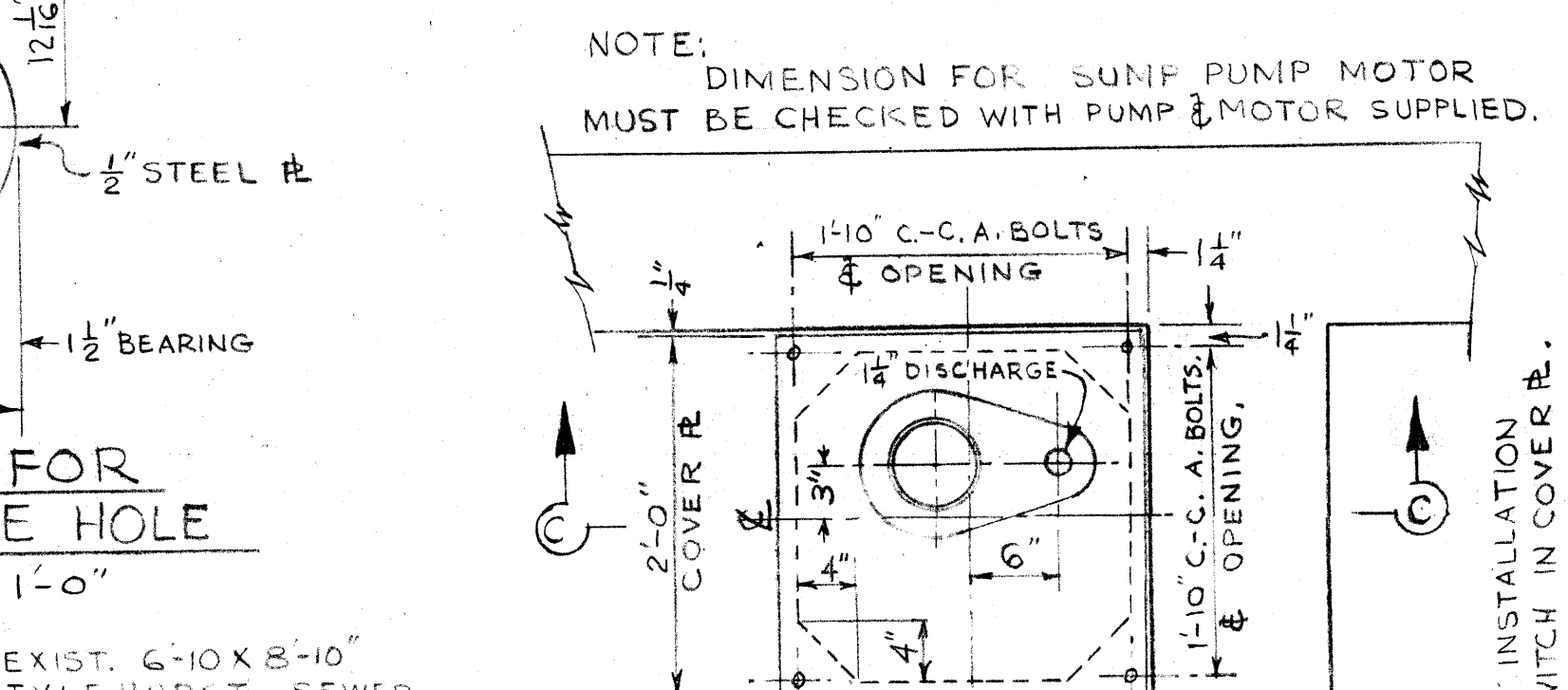
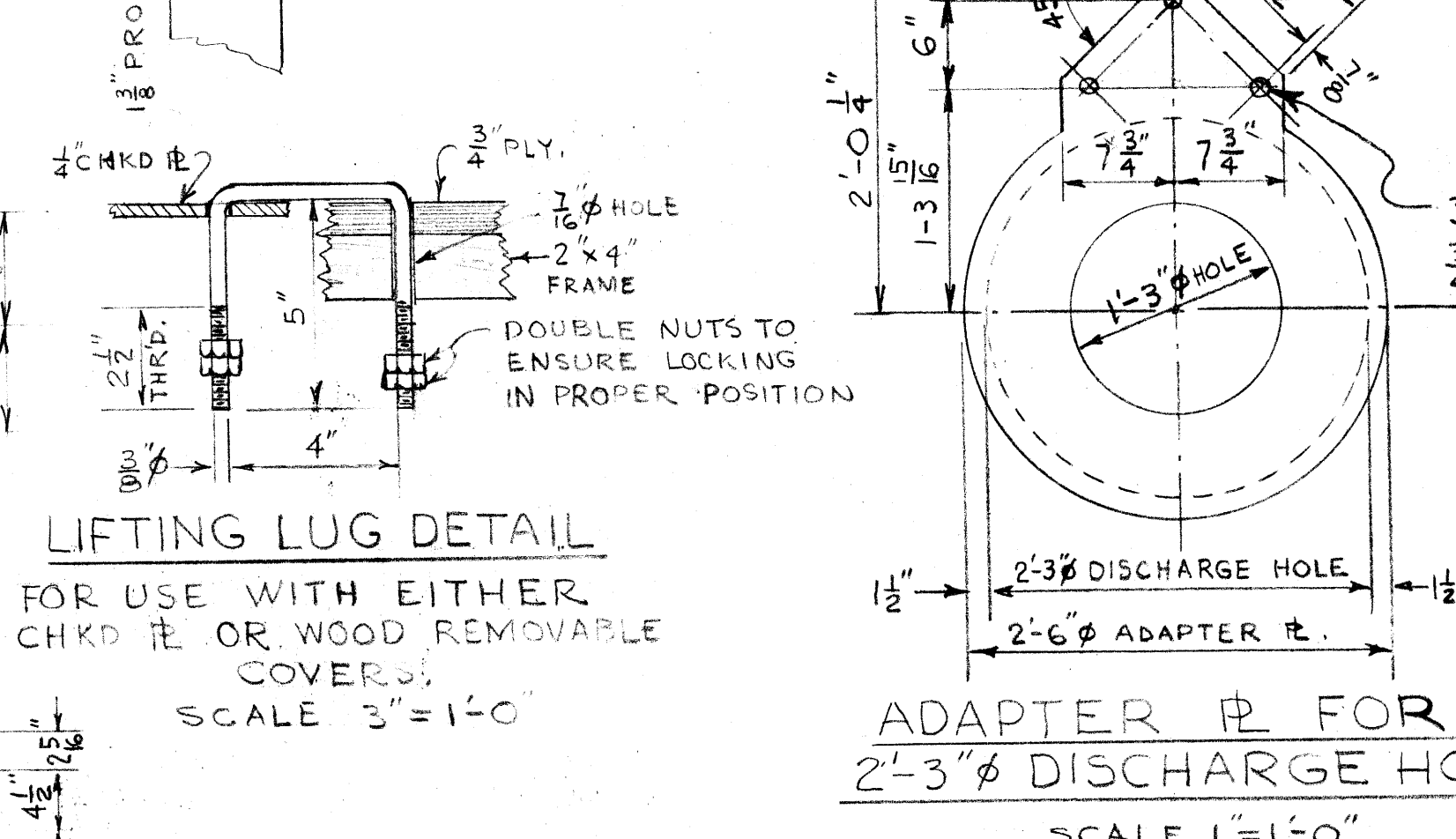
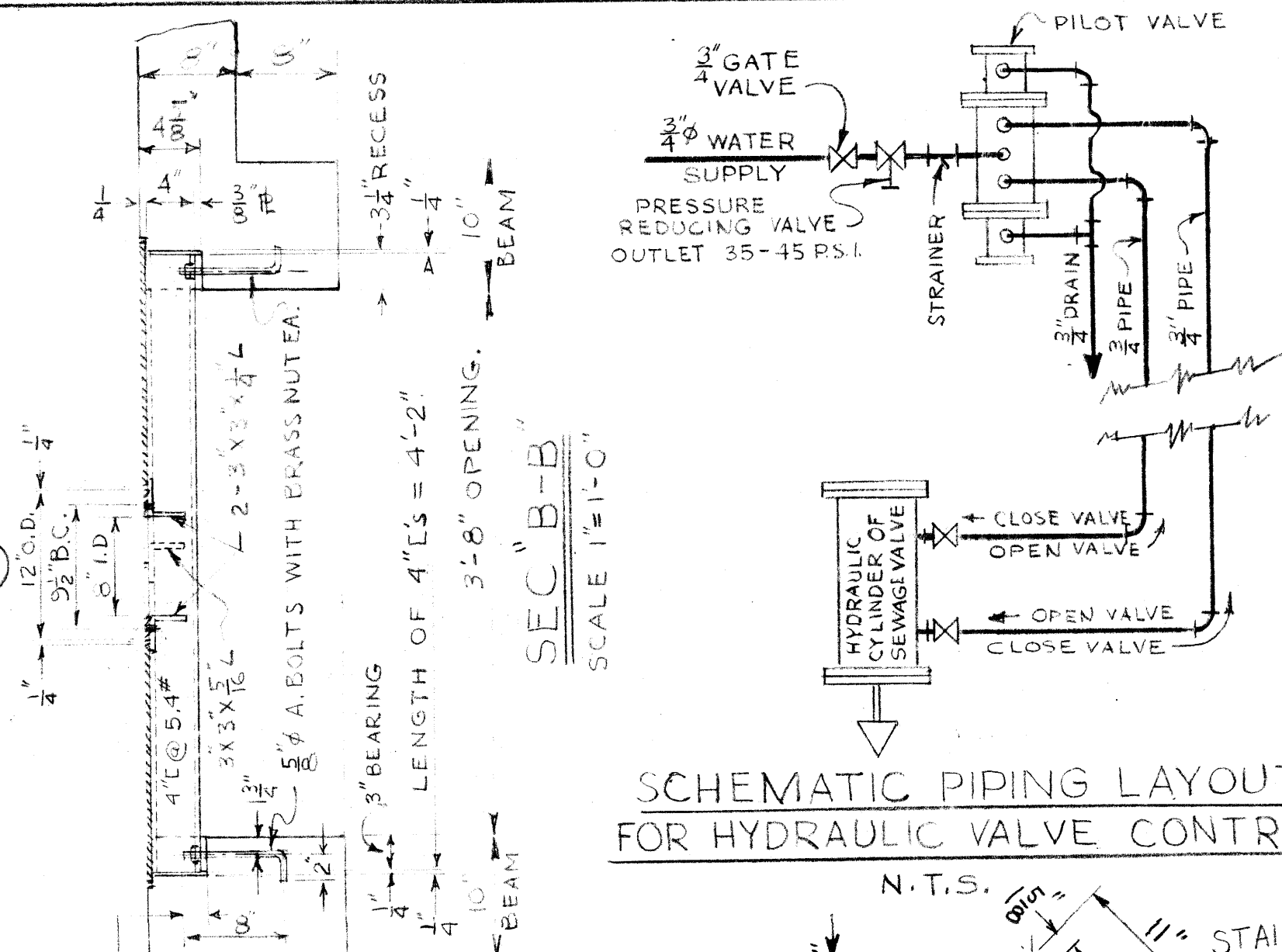
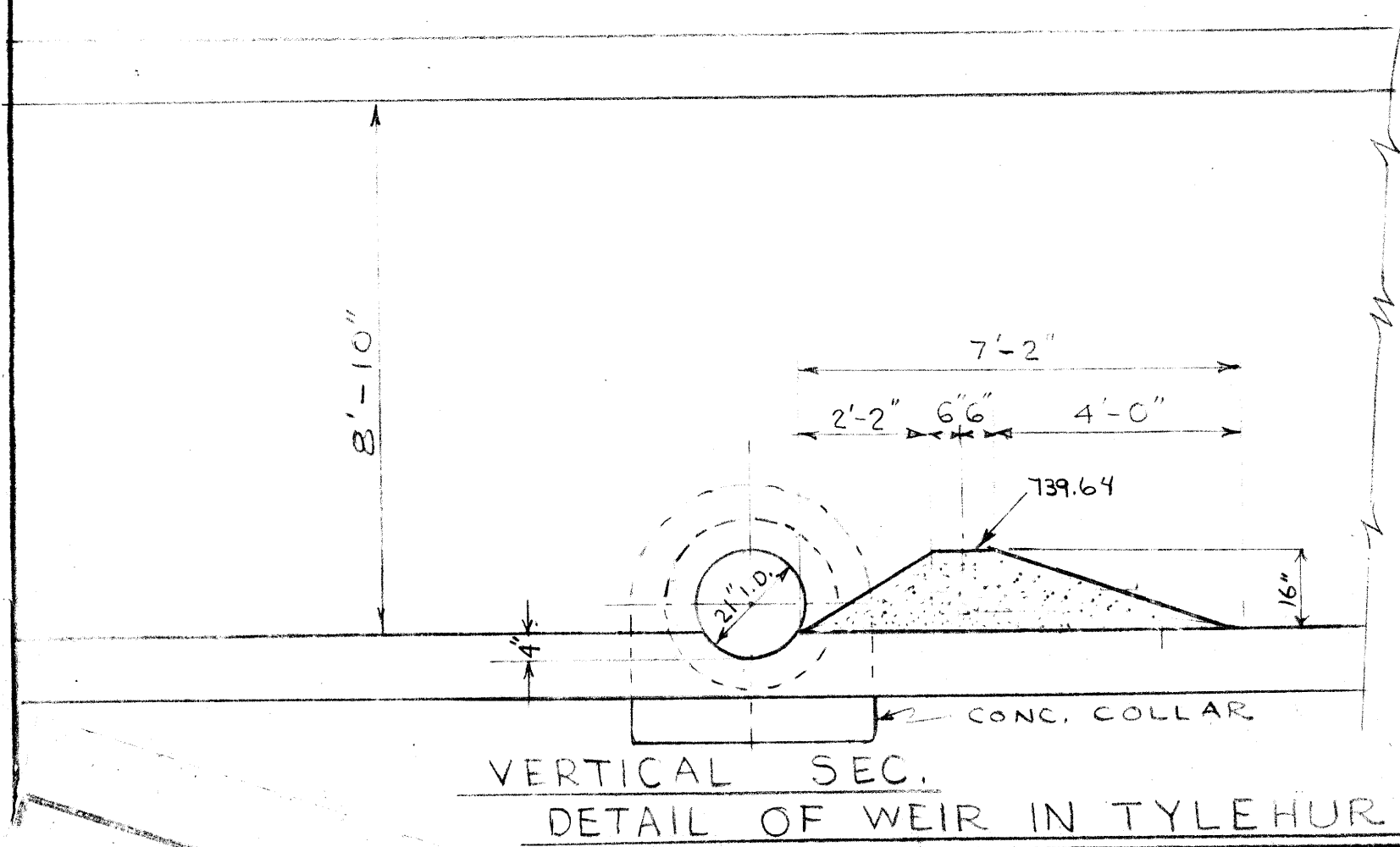
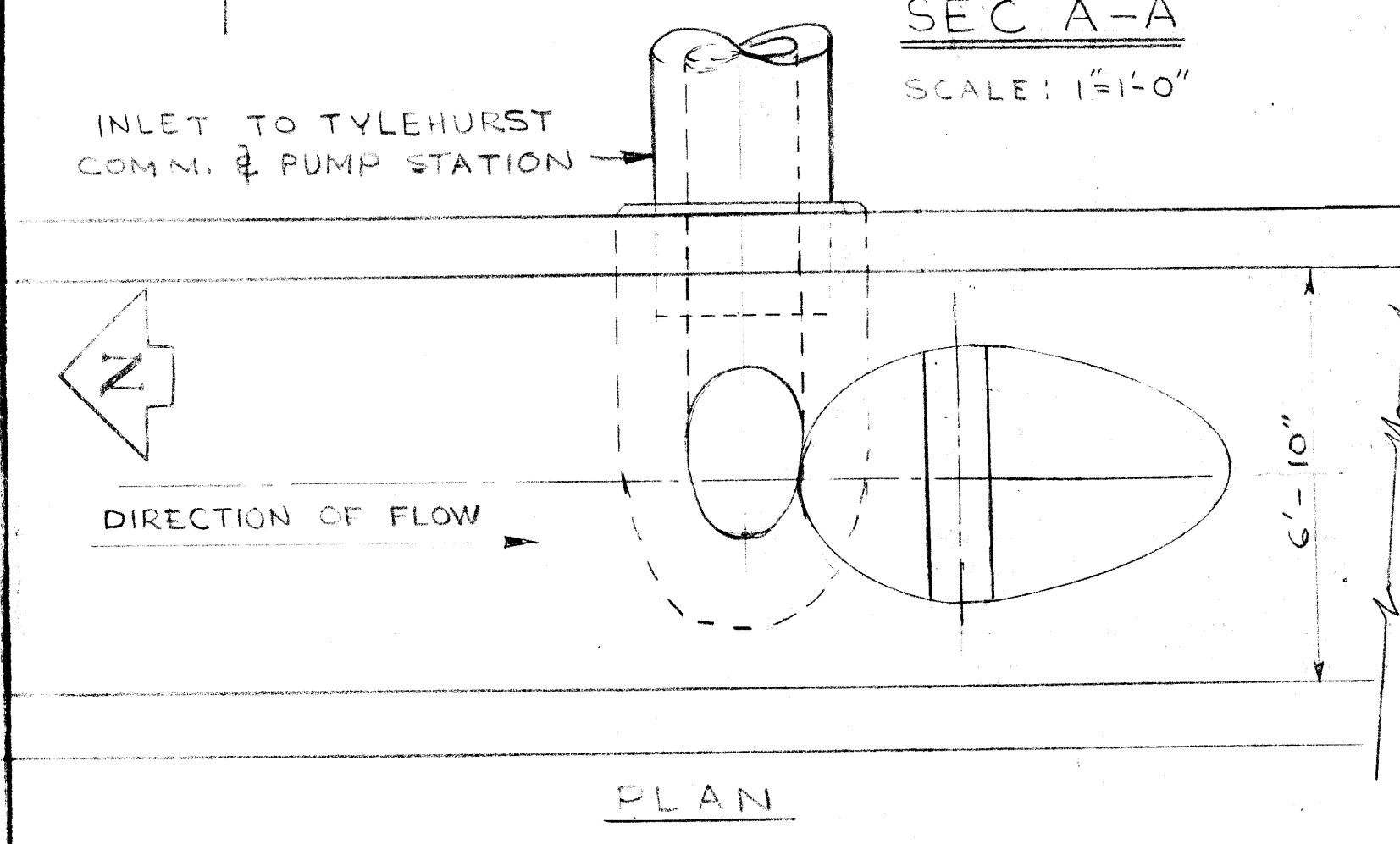
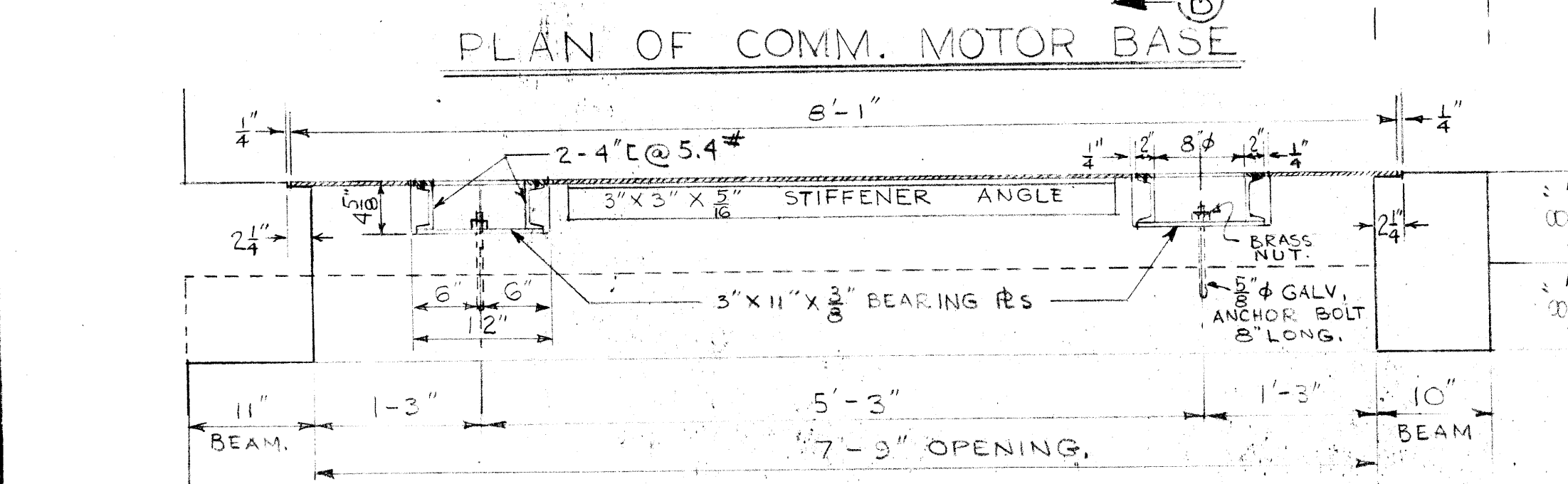
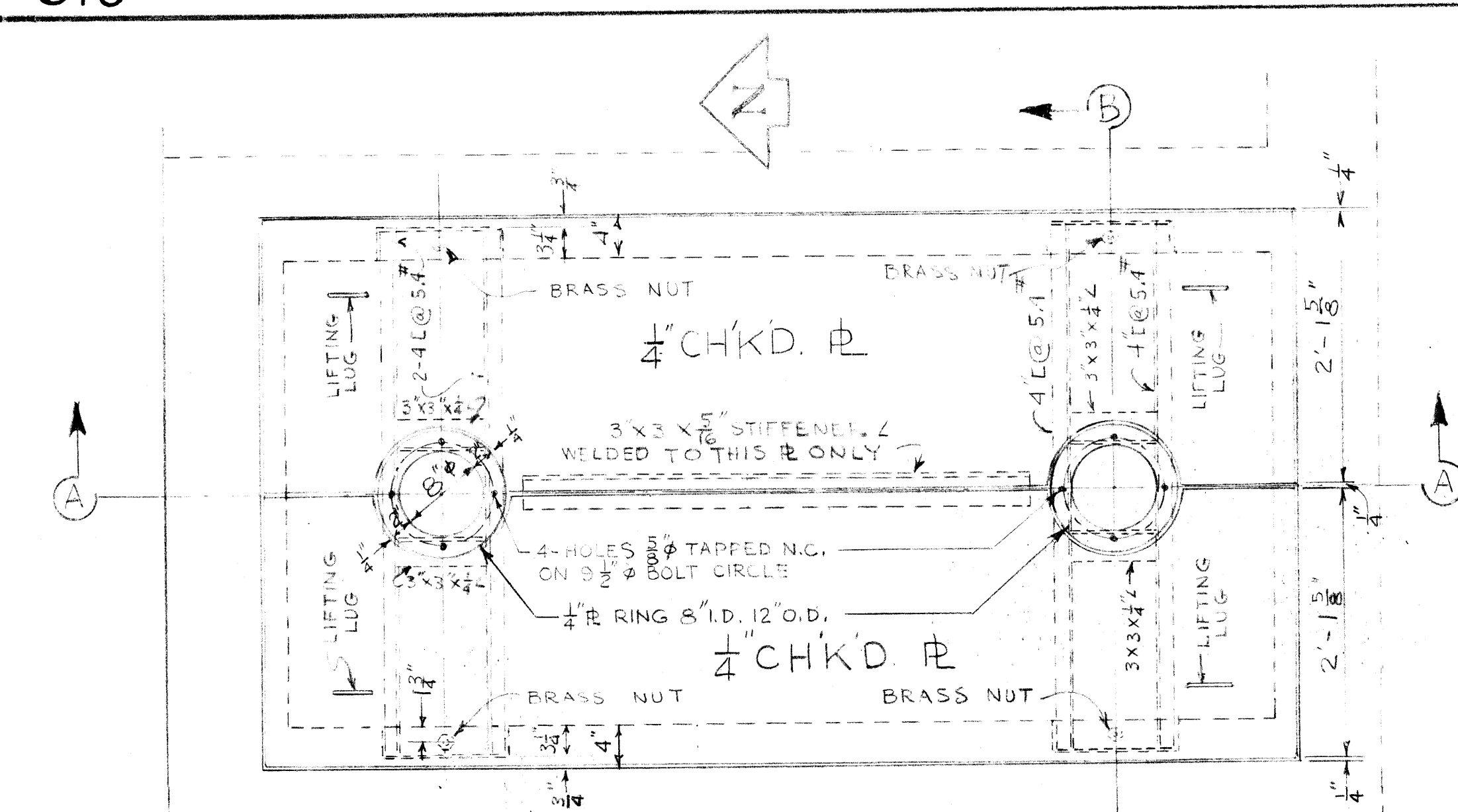
DRAWING NO. **306**

DESIGNED BY: S. K. SOMMERVILLE
 CHECKED BY: S. K. SOMMERVILLE
 DATE: 24 NOV 58

File # SP10066

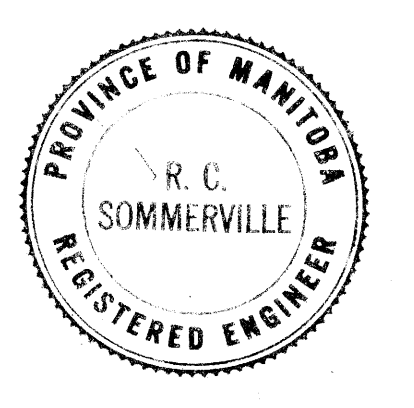
310

REF. or DRAWING No. DETAILS

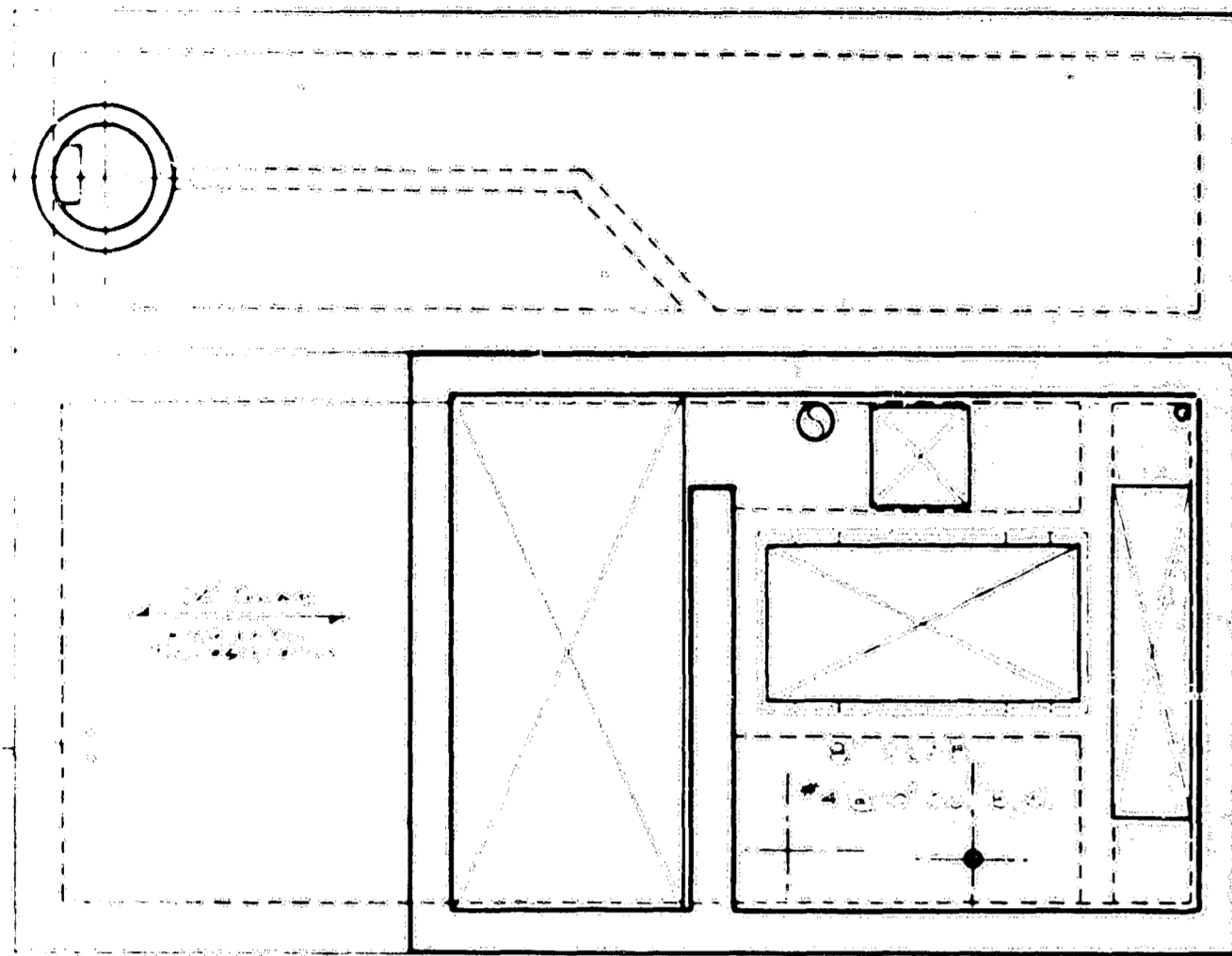


REVISIONS			GREATER WINNIPEG SANITARY DISTRICT SECONDARY SEWERS	
NO.	DESCRIPTION	DATE BY	TITLE	DRAWING NO.
1	WEIR REVISION	07/90 MD	MISC. DETAILS TYLEHURST - COMMUNICATOR & PUMPING STATION.	310

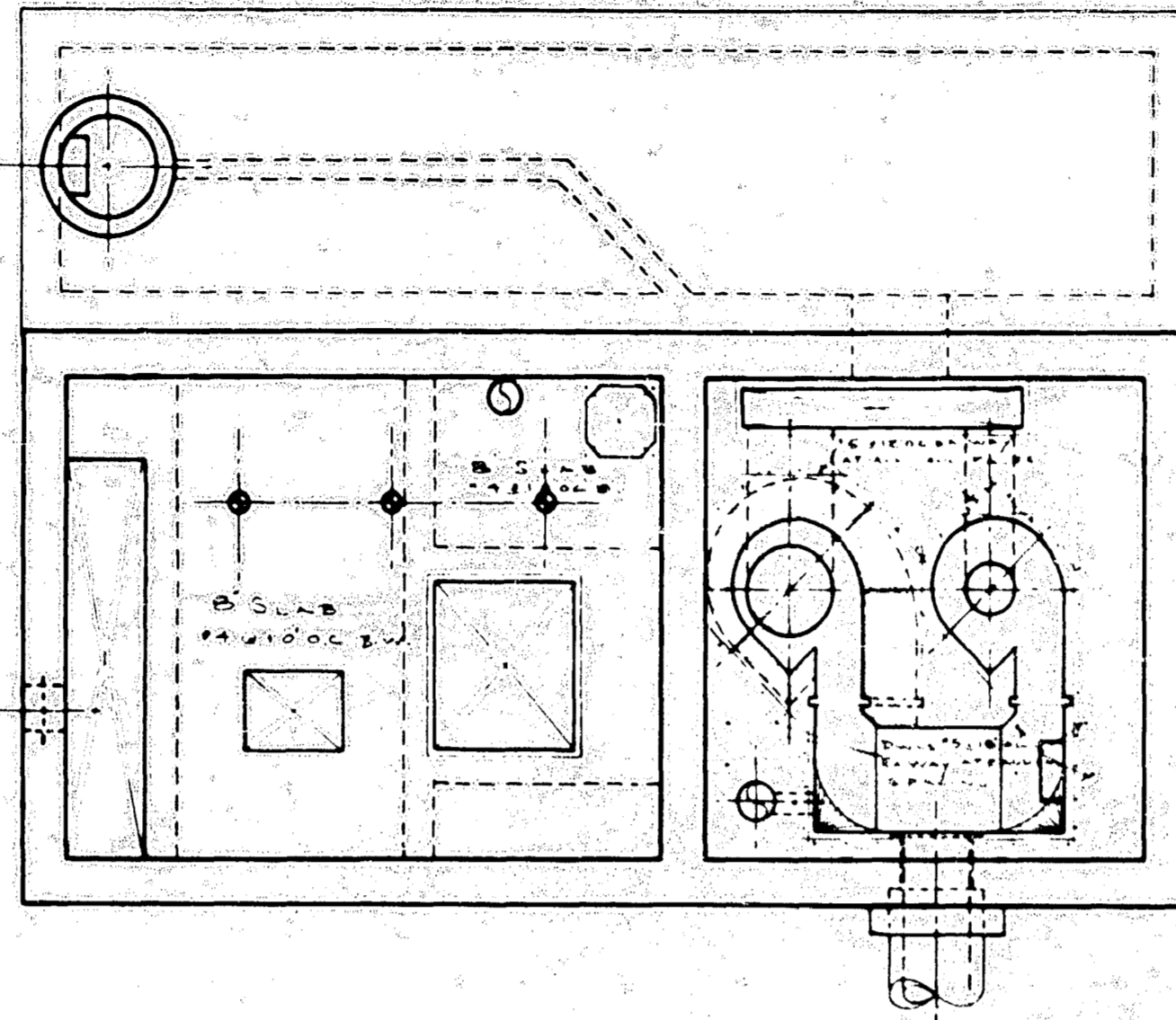
APPROVED BY: [Signature] DATE: [Date] DESIGNED BY: [Signature] CHECKED BY: [Signature] Supt. [Signature] Chief Engineer. SCALE AS NOTED.



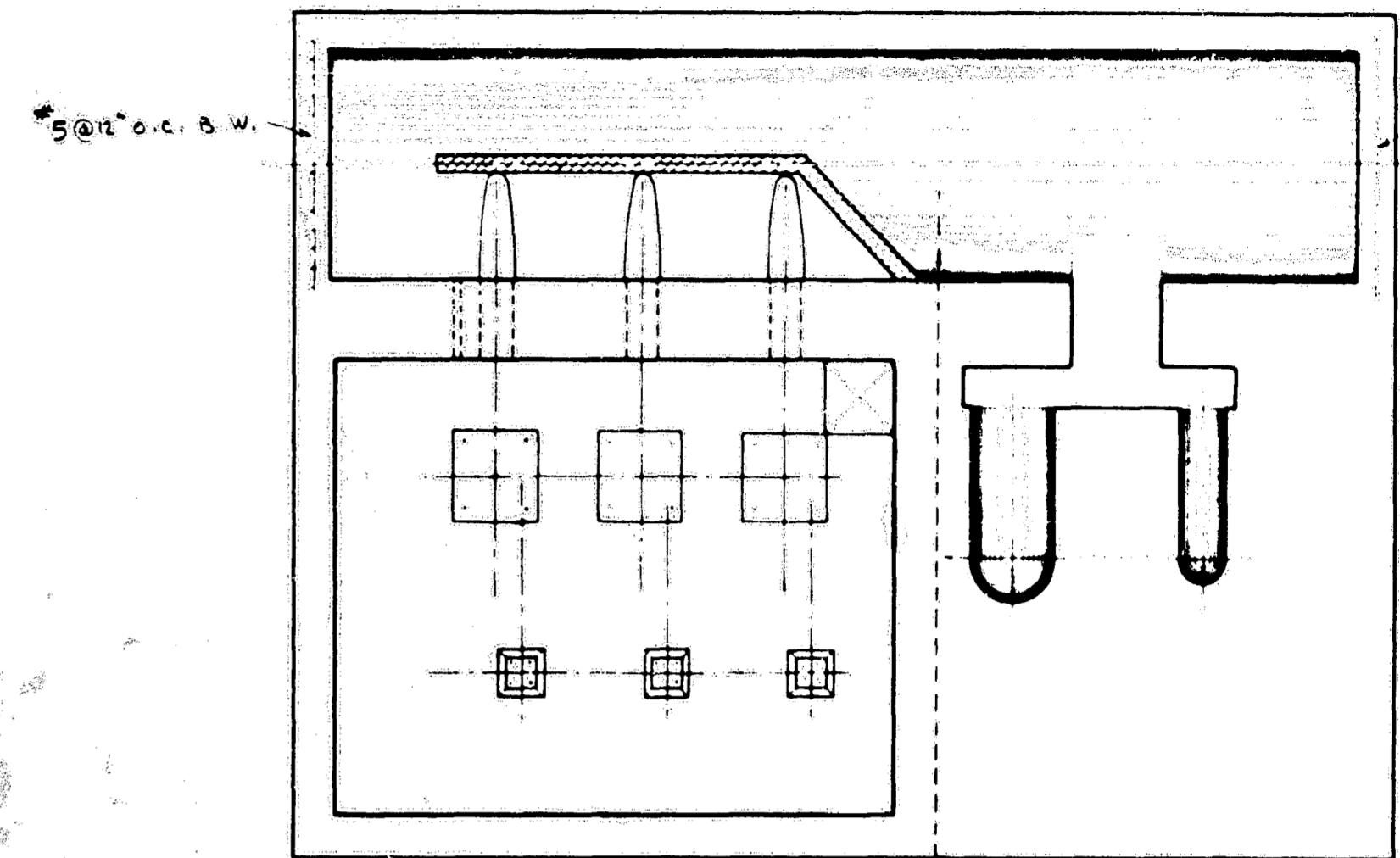
GREATER WINNIPEG WATER & SANITARY DISTRICT
 APPROVED FOR CONSTRUCTION
 Date: JAN 14 1959
 Approved for this drawing covers only the general design and arrangement of material or equipment and does not in any way relieve the Contractor of any liability or responsibility for the satisfactory operation of this installation.



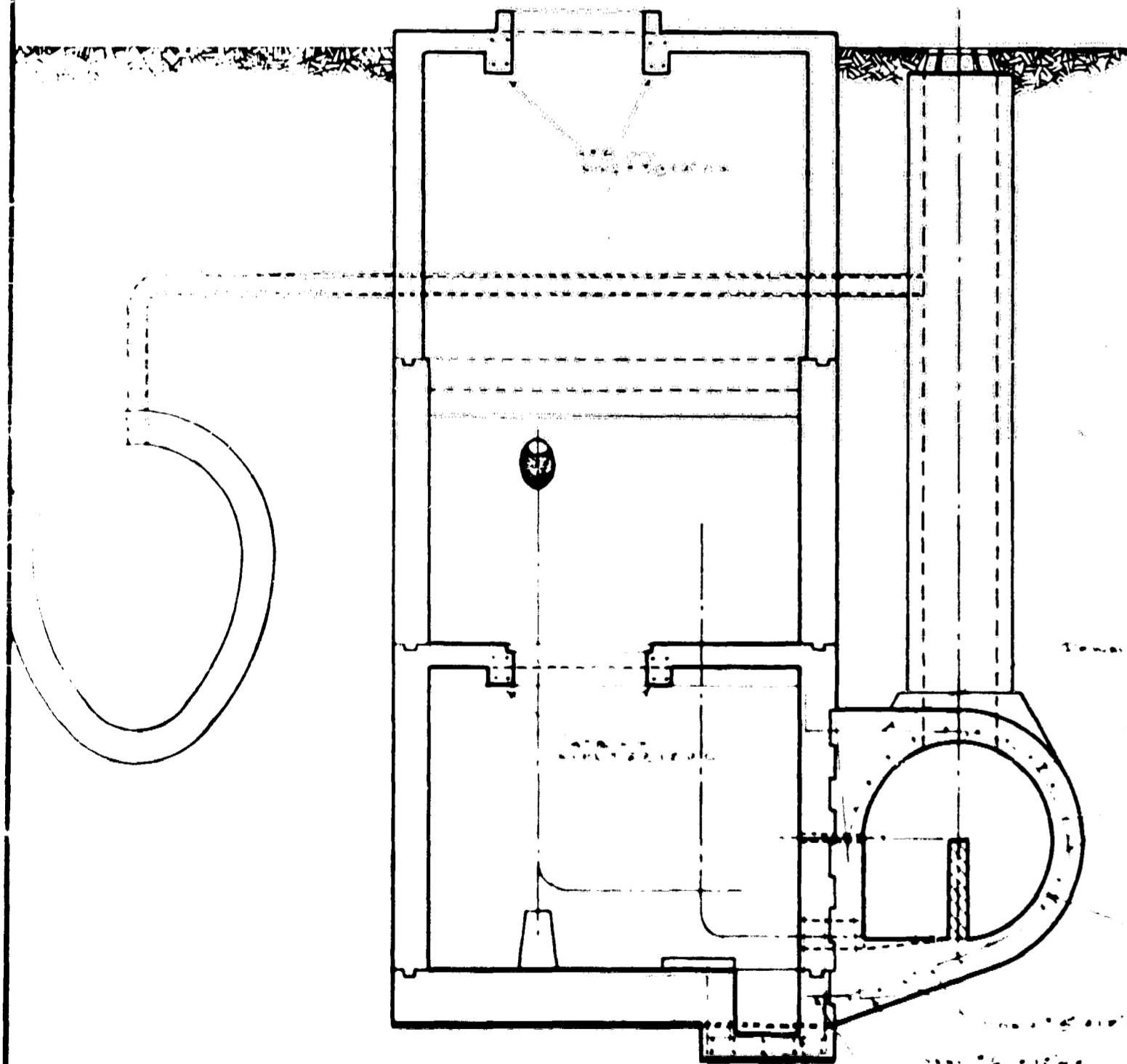
PLAN OF COMM. MOTOR RM. FL.



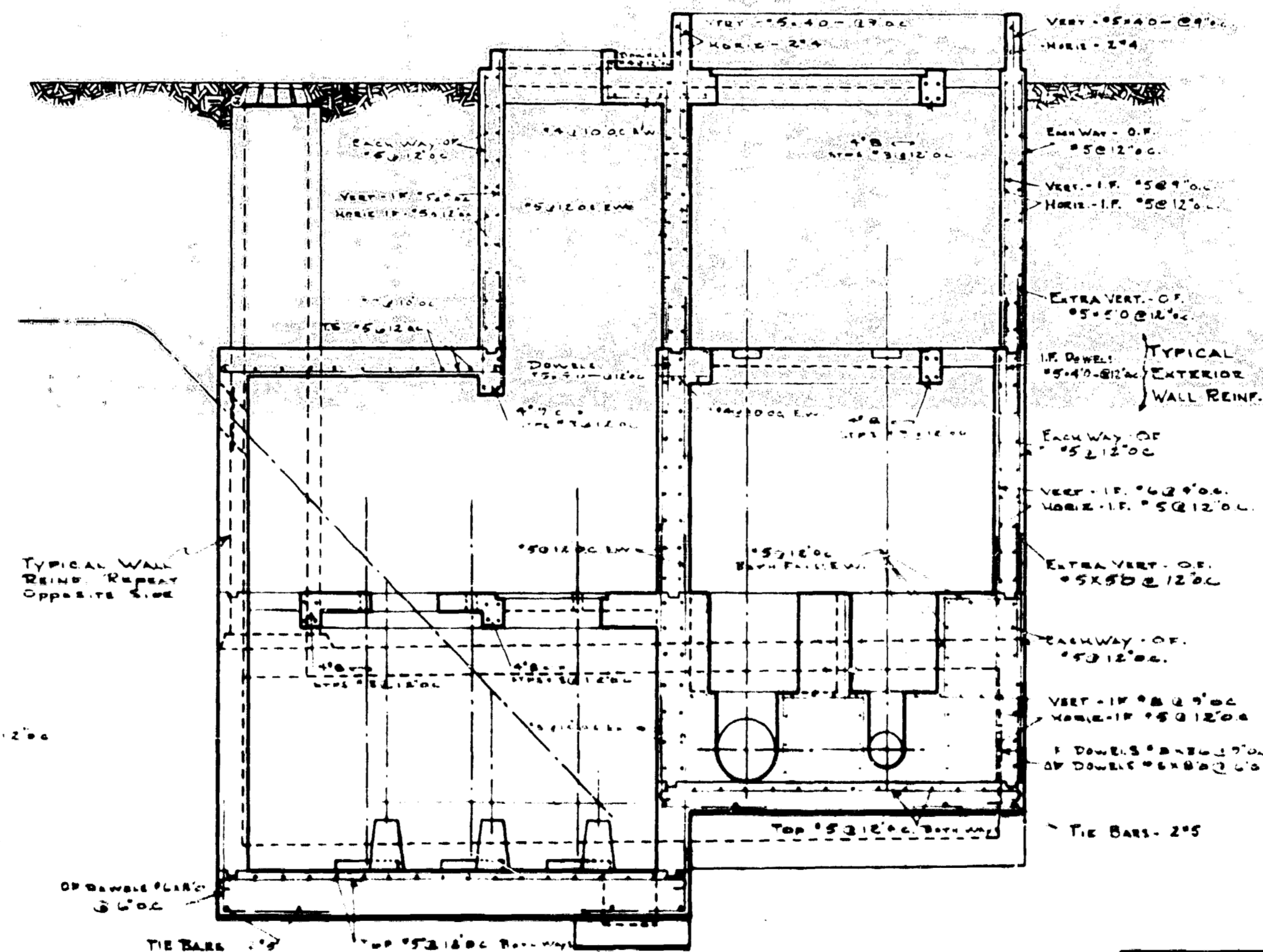
PLAN OF PUMP MOTOR RM. & COMM. CHAMBER FL.



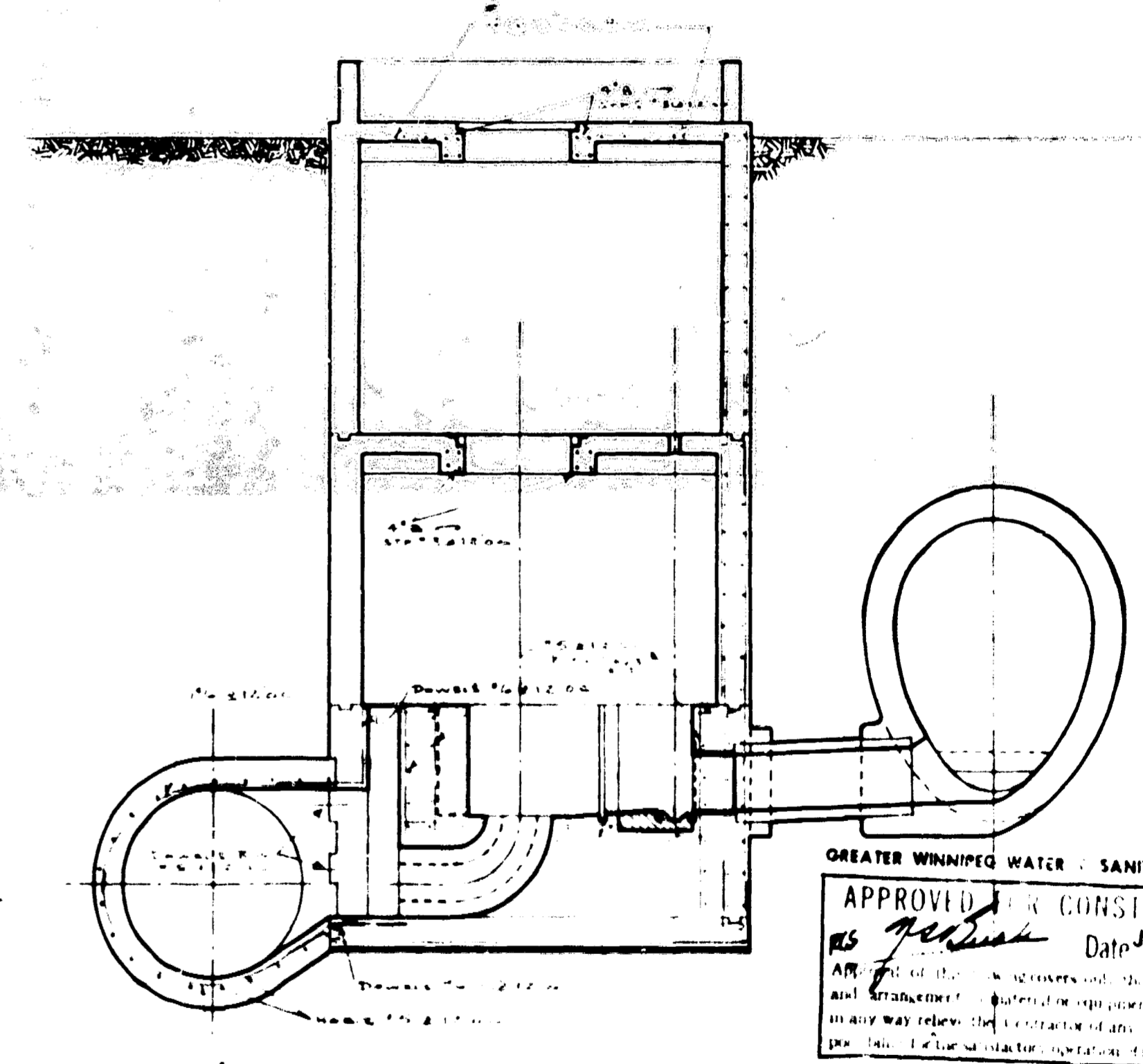
PLAN OF SUMP, PUMP CHAMBER & COMM. DISCHARGE



X-SEC. THRU PUMP CHAMBER
LOOKING NORTH



LONGITUDINAL SEC.
LOOKING EAST



X-SEC. THRU COMM. CHAMBER LOOKING SOUTH

COWIN & CO. LTD.
REINFORCED CONCRETE ENGINEERS
WINNIPEG, MAN.



GREATER WINNIPEG WATER - SANITARY DISTRICT
APPROVED FOR CONSTRUCTION
Date JAN 14 1959
APPROVED BY: [Signature]
CHIEF ENGINEER

REVISIONS			
NO.	DESCRIPTION	DATE	BY

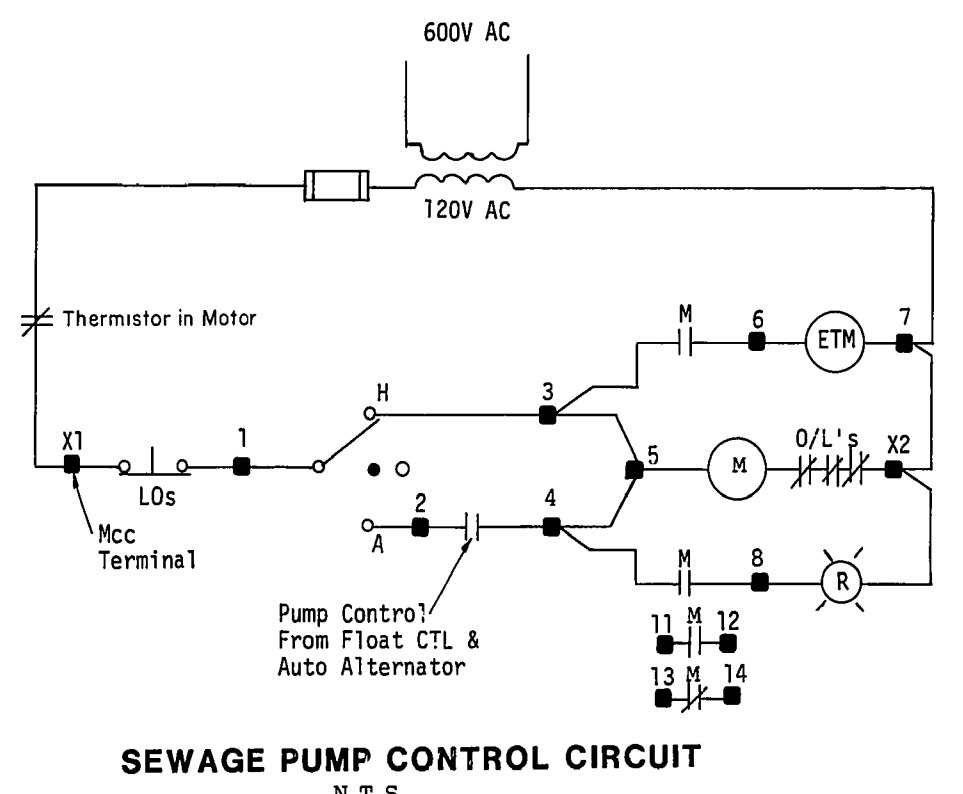
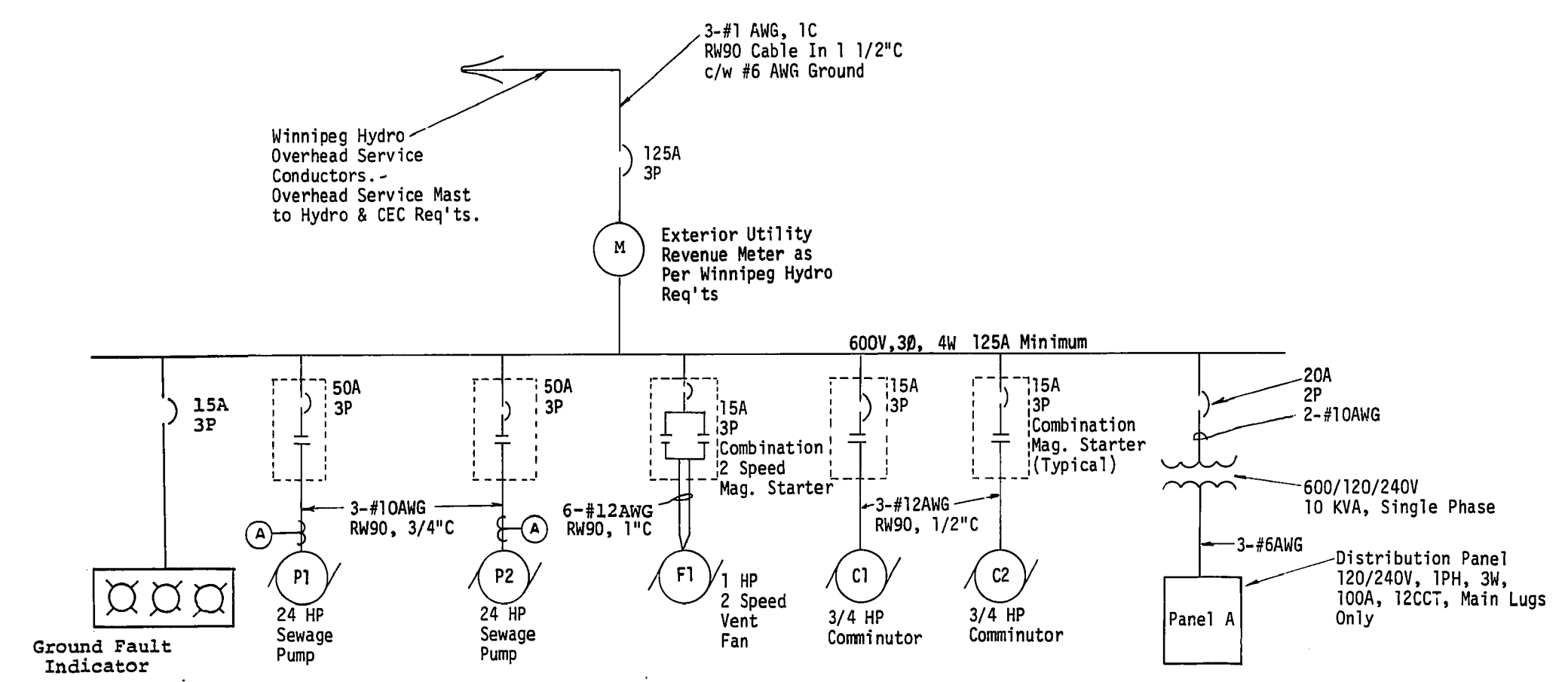
GREATER WINNIPEG SANITARY DISTRICT
SECONDARY SEWERS
TYLEHURST COMM. & PUMP STA.
REINFORCING STEEL

APPROVED BY: [Signature] CHIEF ENGINEER	DESIGNED BY: [Signature]	PROJECT NO. [Number]	DRAWING NO. 311
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file #
SP 10330

DETAILS

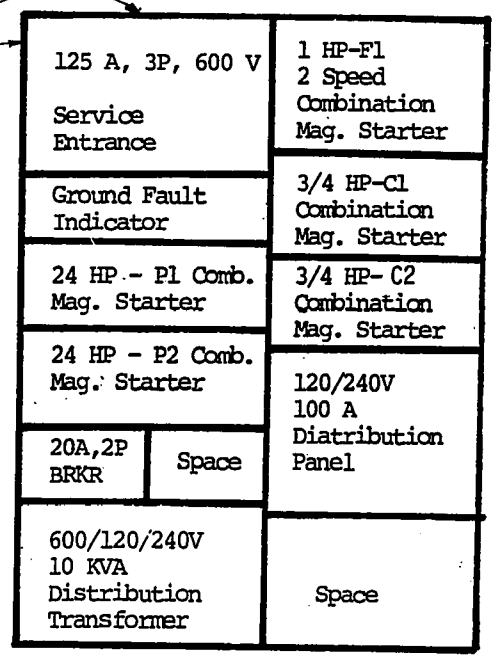
SINGLE LINE DIAGRAM
N.T.S.



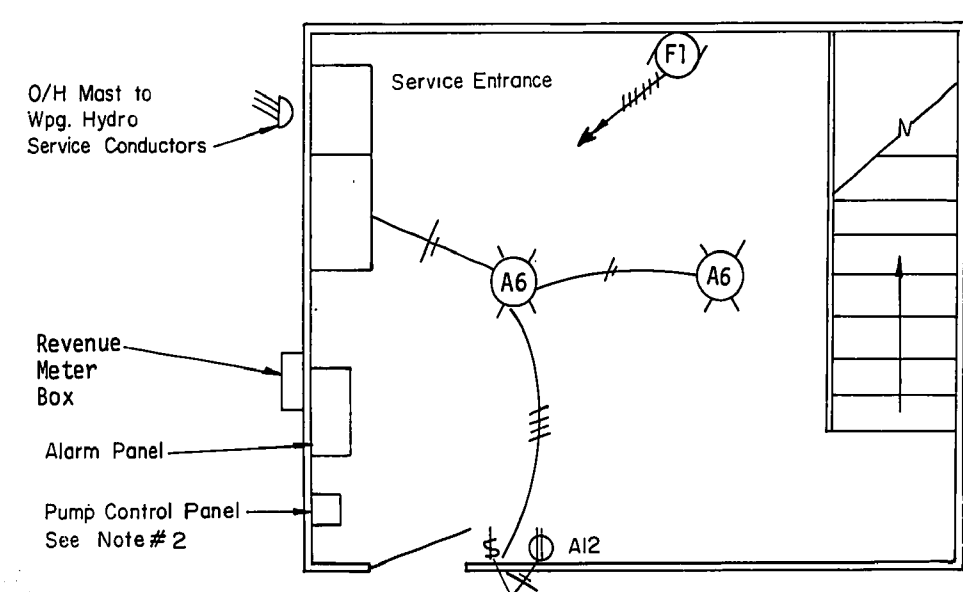
NOTES

- All Equipment Identified with Lamicoid Name Plates
- Owner Provided Solid State Alternator (Healy Ruff Model No. 961000-018-9126A) to Contractor for Installation
- Incandescent Light Fixtures are Vapour Tight c/w Globe and Guard. 200 W Extended Service Bulbs for all new Fixtures.

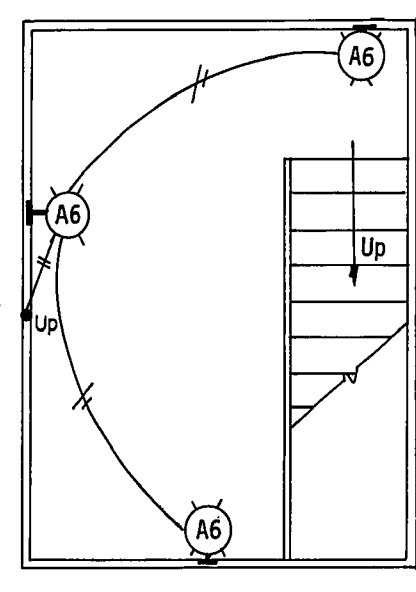
MTR. NO.	DESCRIPTION	LOCATION	H.P.	VOLTS	STARTER & ACCESSORIES				CCT	STARTER LOC'N	REMARKS
					MAN	MAG	P.L.	CTL			
P1	Sewage Pump	3rd Level Pump Well	24	600V, 3Ø	-	-	-	110A	Dist'n	MCC	Lock-Off-Stop Pushbutton at Motor. Final Motor Connection via Type SOW Flexible Cable. Ammeter CT mounted on B Phase Conductor (Center) only. Ammeter on Front Door of Starter.
P2	Sewage Pump	3rd Level Pump Well	24	600V, 3Ø	-	-	-	110A	Dist'n	MCC	
F1	Ventilation Fan, 2 Speed	Main Level	1	600V, 3Ø	-	-	-	High Off Low	Dist'n	MCC	Final motor connection via flex. armored conduit c/w PVC Jacket.
C1	Comminutor	1st Level	3/4	600V, 3Ø	-	-	-	On Off	Dist'n	MCC	Lock-Off-Stop Pushbutton at Motor
C2	Comminutor	1st Level	3/4	600V, 3Ø	-	-	-	On Off	Dist'n	MCC	
-	Sump Pump	3rd Level Pump Well	1/2	120V, 1Ø	-	-	-	-	A2	At Pump	Pump & Float Controls Single Receptacle



SERVICE ENTRANCE/MCC LAYOUT
N.T.S.



MAIN LEVEL PLAN
N.T.S.



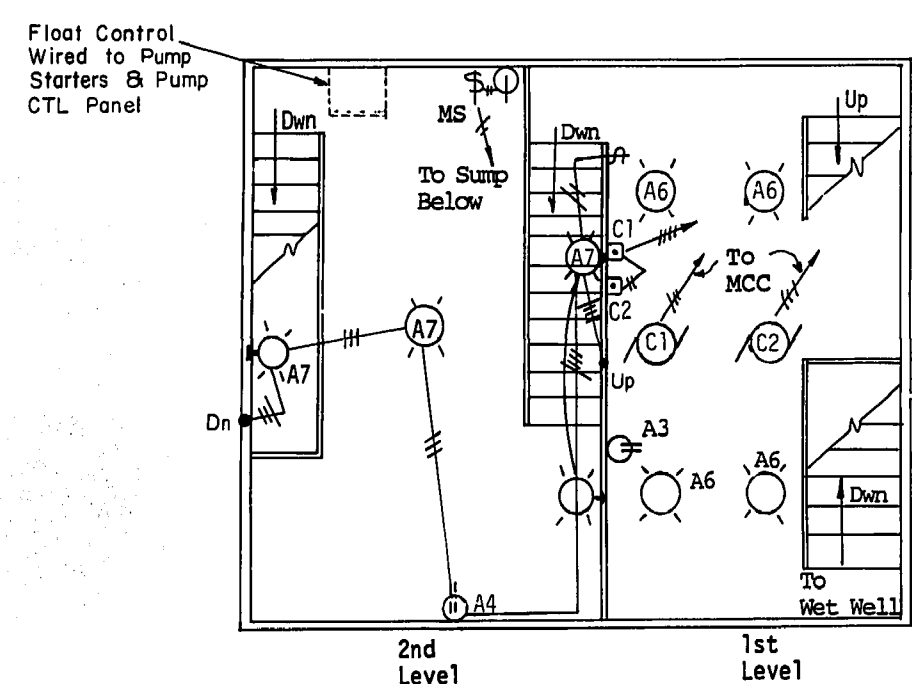
WET WELL PLAN (AT 2nd LEVEL)
N.T.S.

DISTRIBUTION PANEL A					
120 / 240 V, 1Ø, 3W, 100A, MAIN LUGS ONLY					
CCT No.	DESCRIPTION	TRIP AMPS	TRIP AMPS	DESCRIPTION	CCT No.
1	Remote Alarm Signal Panel	15A	15A	Sump Pump	2
3	Recep. - Main & 1st Level	15A	15A	Recep. 2nd Level	4
5	Recep. 3rd Level	15A	15A	Lighting Main & 1st Level	6
7	Lighting 2nd & 3rd Level	15A	15A	Pump CTL Panel	8
9	Spare	15A	15A	Spare	10
11	Spare	15A	15A	Recep. First Level	12

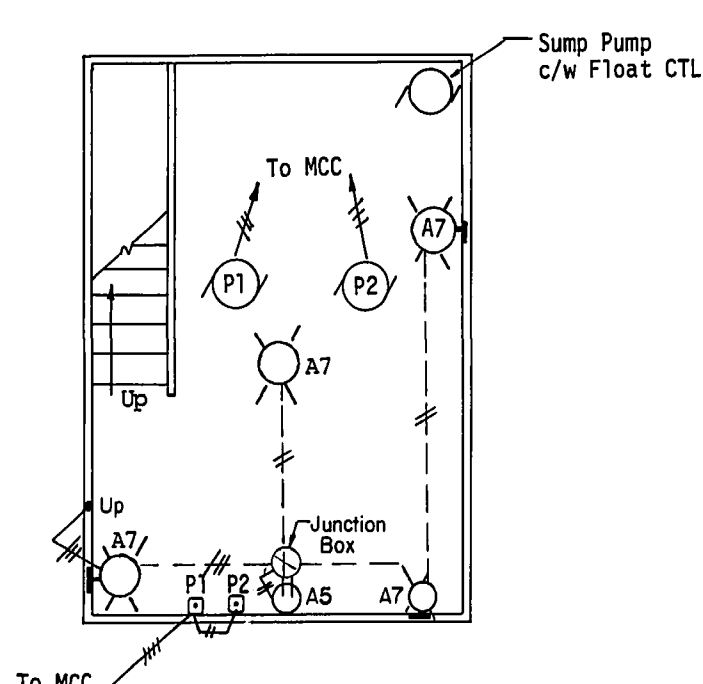
PANEL SCHEDULE
N.T.S.

LEGEND

- Wall Mounted Incandescent Light Fixture
- Ceiling Mounted Incandescent Light Fixture
- Duplex Receptacle
- Single Receptacle
- Single Pole Switch
- LOS Pushbutton
- Motor Outlet
- Wiring Run - 2 Wires in Conduit, Surface Mounted



1st AND 2nd LEVEL PLAN
N.T.S.



3rd LEVEL PLAN (PUMP WELL)
N.T.S.

AS-CONSTRUCTED
SURVEY ENGINEERING DATE
WATERWORKS, WASTE & DISPOSAL DEPARTMENT

B.M. ELEV.			
DESIGNED BY	EMR	CHECKED BY	EMR
DRAWN BY	MBD	APPROVED BY	RMG
HOR SCALE	N.T.S.	RELEASED FOR CONSTRUCTION	
REV'D TO AS BUILT	JUL 88	EN	
NO REVISIONS	DATE	BY	DATE
			SEPT. 19, 1986

ENGINEER'S SEAL
PROVINCE OF MANITOBA
E. M. RYZKOWSKI
REGISTERED ENGINEER

THE CITY OF WINNIPEG
WORKS AND OPERATIONS DIVISION

TYLEHURST PUMPING STATION
(ELECTRICAL UPGRADING)

CITY DRAWING NUMBER
SHEET 01
1203

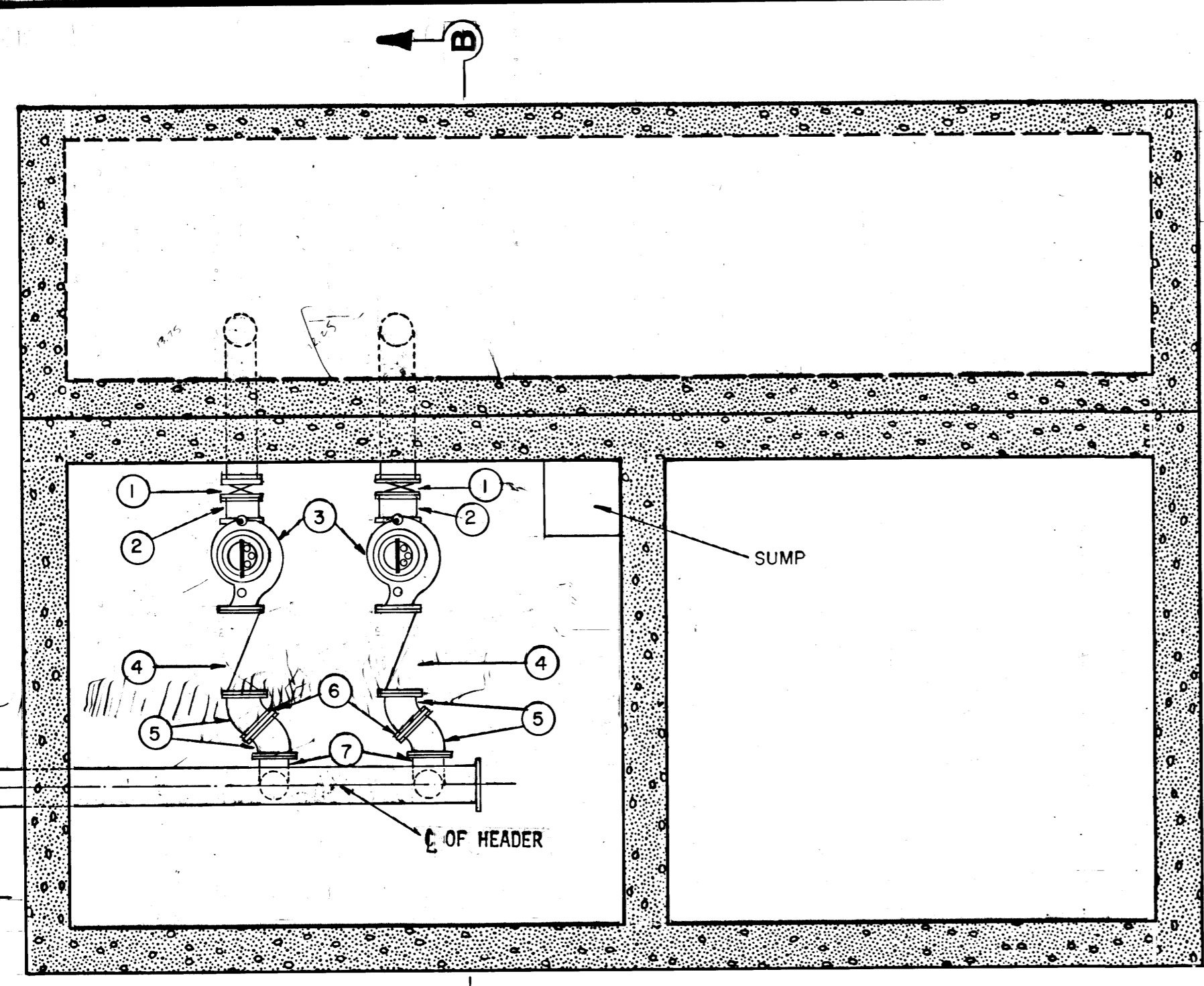
CONSULTANT DRAWING NO.

file # SP10330

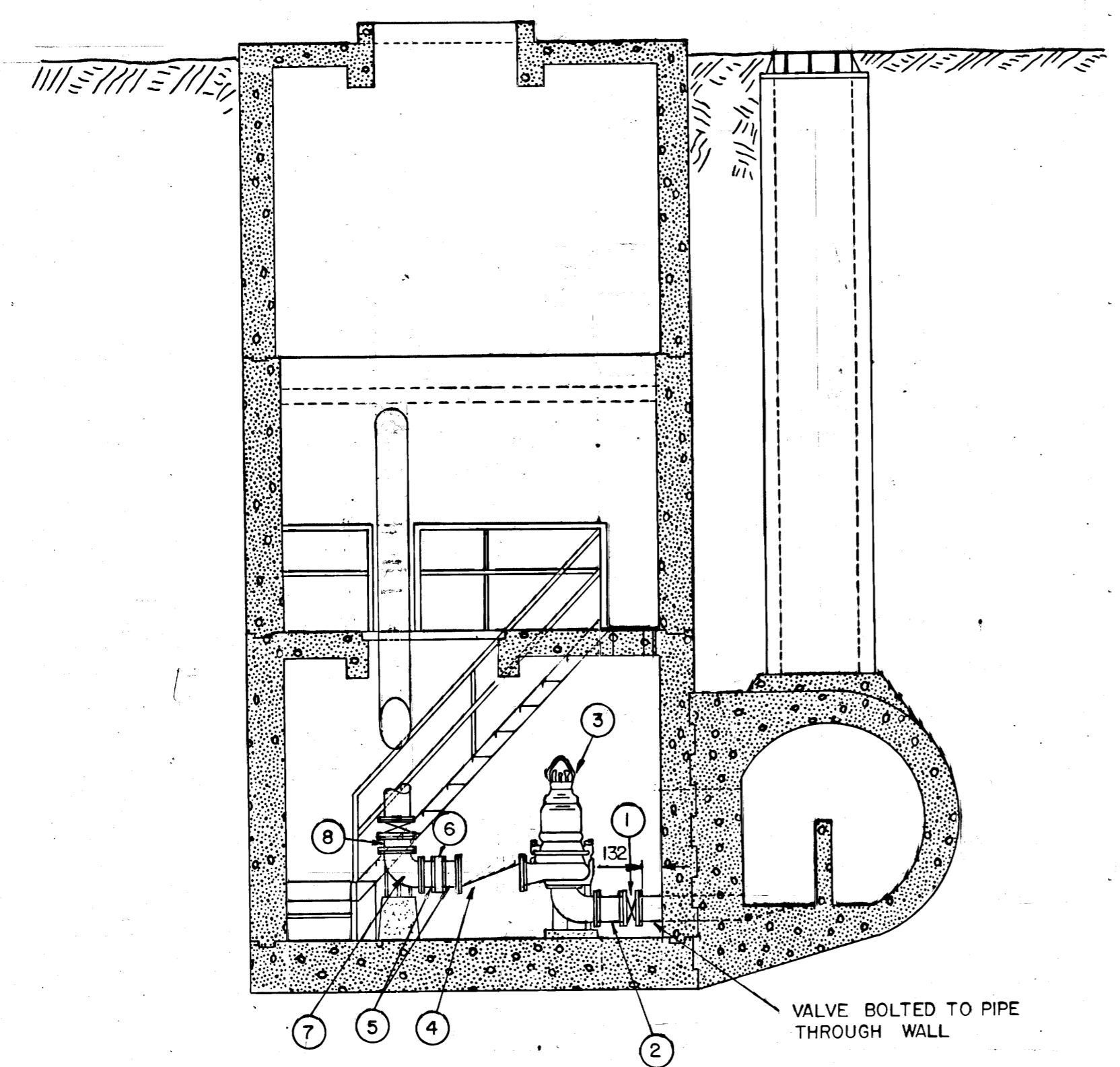
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1214

REF. or DRAWING No. DETAILS

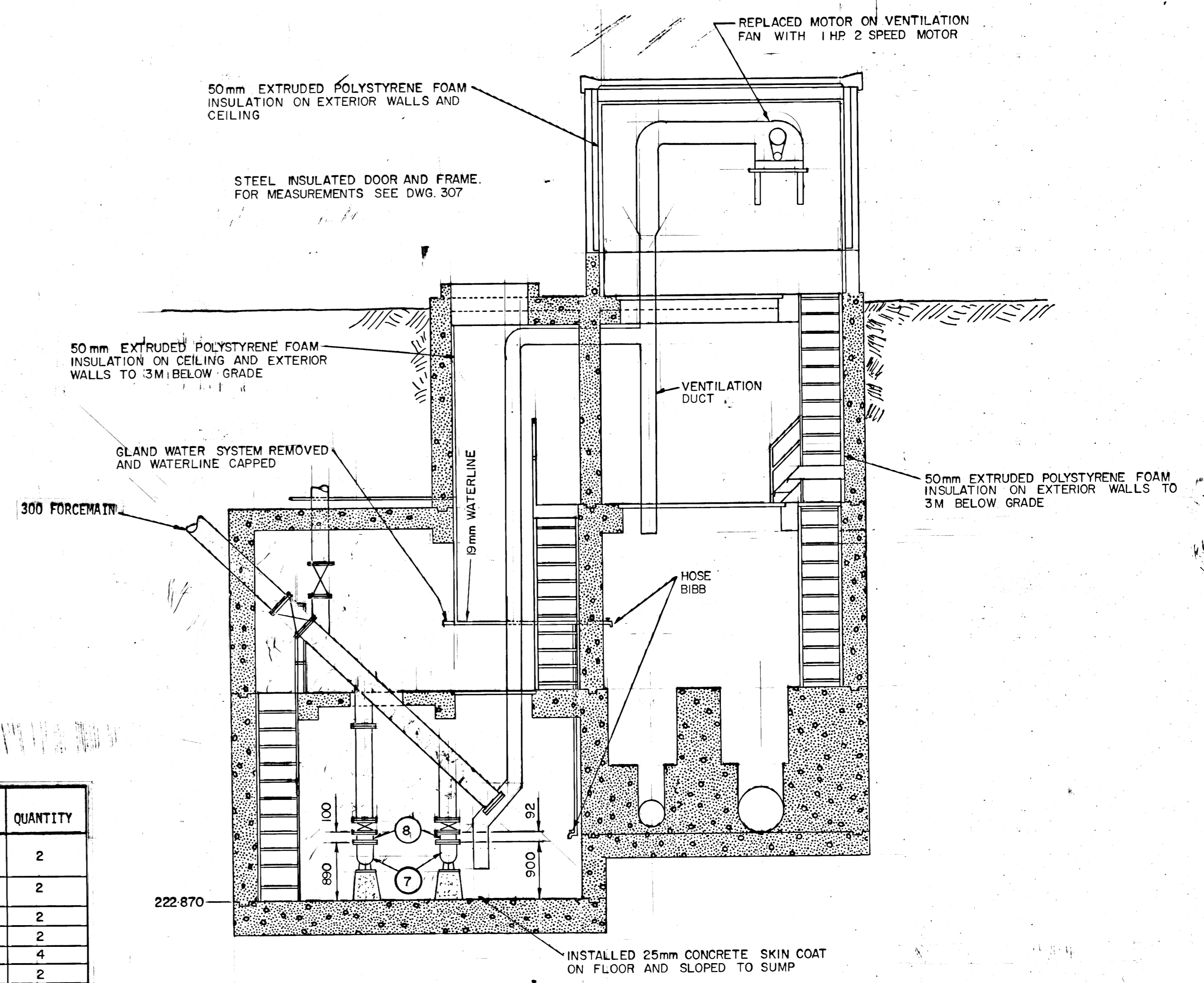


FLOOR PLAN OF PUMP ROOM
SCALE 1:40



SECTION B-B
SCALE 1:50

ITEM	DESCRIPTION	LENGTH mm	DIAMETER mm	QUANTITY
1	WAVER KNIFE GATE VALVE 9600 BN, FLANGED - CRANE McAVITY S.S.		200	2
2	FILLER PIPE CW SERIES 400 UNI-FLANGE	285	200	2
3	PUMPEX PUMPS - FLANGED		200	2
4	FULL BODY CHECK VALVE - FLANGED	496	200	2
5	45° BEND - FLANGED		200	4
6	SPACER - FLANGED	25	200	2
7	90° BASE ELB/W - FLANGED		200	2
8	FILLER PIPE - FLANGED		200	2



SECTION A-A
SCALE 1:50

AS-CONSTRUCTED
R.M. Girling 14/11/88
 SURVEY ENGINEERING DATE
 TYPING SERVICE
 WATERWORKS, WASTE & DISPOSAL DEPARTMENT

FOR MEASUREMENT NOT SHOWN ON THIS DRAWING SEE DRAWING 307, 308 AND 309

B.M. ELEV. <table border="1"> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>													WORKS & OPERATIONS DIVISION WATERWORKS, WASTE & DISPOSAL DEPARTMENT	ENGINEER R.M. GIRLING REGISTERED ENGINEER CONSULTANT DRAWING NO.	THE CITY OF WINNIPEG WORKS AND OPERATIONS DIVISION	CITY DRAWING NUMBER
DESIGNED BY J.E.	CHECKED BY RMG	TYLEHURST PUMPING STATION UPGRADING (MECHANICAL)	SHEET OF													
DRAWN BY M.B.D.	APPROVED BY RMG		1214													
HOR. SCALE: AS NOTED	RELEASED FOR CONSTRUCTION															
I REV'D TO AS BUILT JUL 88 EN NO REVISIONS DATE BY	DATE FEBRUARY 23, 1987 DATE April 30, 1987	DATE	DATE	SHEET OF												

file # SP 10,342

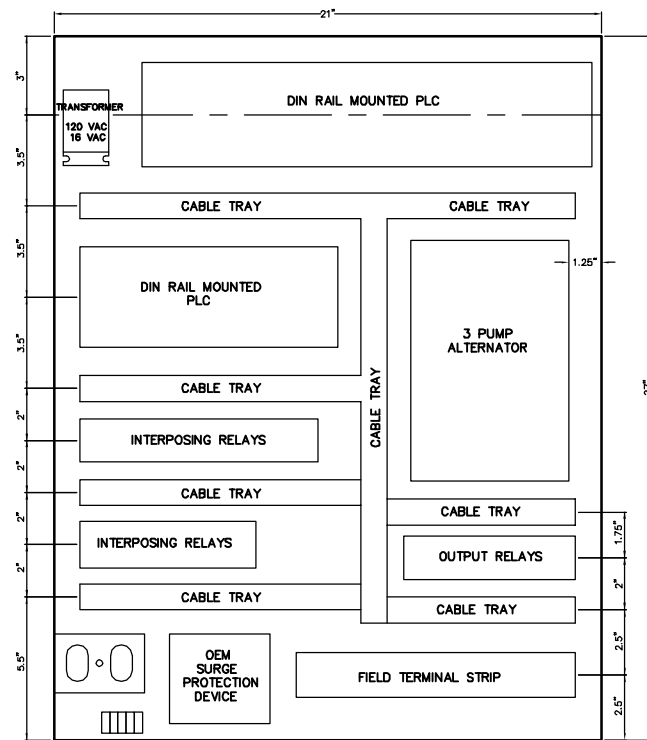
ALARM WIRING TEMPLATE

ALARM INPUT	DESCRIPTION	PLC ADDRESS	COLOR
ALARM INPUT 1	LOCKOUT	10001	BLUE
ALARM INPUT 2	OVERFLOW	10002	BLUE/WHITE
ALARM INPUT 3	STATION FLOOD	10003	BLUE/RED
ALARM INPUT 4	LOW INSTR. AIR	10004	BLUE/BLACK
ALARM INPUT 5	LOW TEMP.	10005	RED
ALARM INPUT 6	LOSS OF SEAL WATER	10006	RED/BLACK
ALARM INPUT 7	GENERATOR RUN	10007	RED/WHITE
ALARM INPUT 8	POWER FAILURE	10008	ORANGE
ALARM INPUT 9	FLOOD STATION HIGH WET WELL	10009	ORANGE/RED
ALARM INPUT 10	FLOOD STATION FLOOD	10010	ORANGE/BLACK
ALARM INPUT 11	GENERATOR FAIL	10011	BLACK
ALARM INPUT 12	WET WELL UPPER	10012	BLACK/WHITE
ALARM INPUT 13	COM/PUMP FAILURE	10013	BLACK/RED
ALARM INPUT 14			GREEN
ALARM INPUT 15			GREEN/BLACK
ALARM INPUT 16			GREEN/WHITE

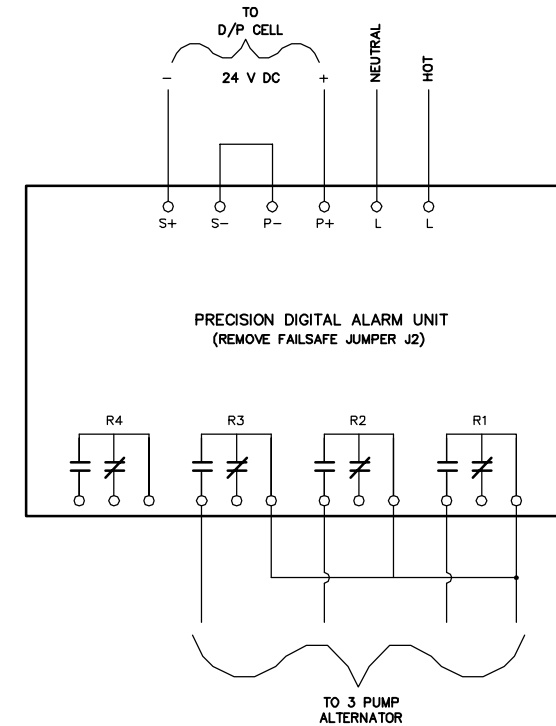
Any other types of alarms are to be wired to alarm inputs 14 through 16. Otherwise call the Metershop for further instructions.

ANALOG WIRING	PLC ADDRESS	
INPUT 1	LIFT LEVEL	30001
INPUT 2	FLOOD LEVEL	30002
INPUT 3	FLOW	30003

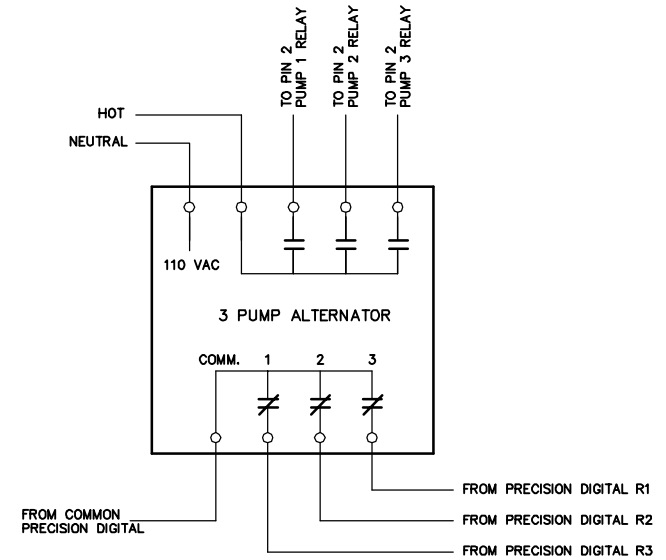
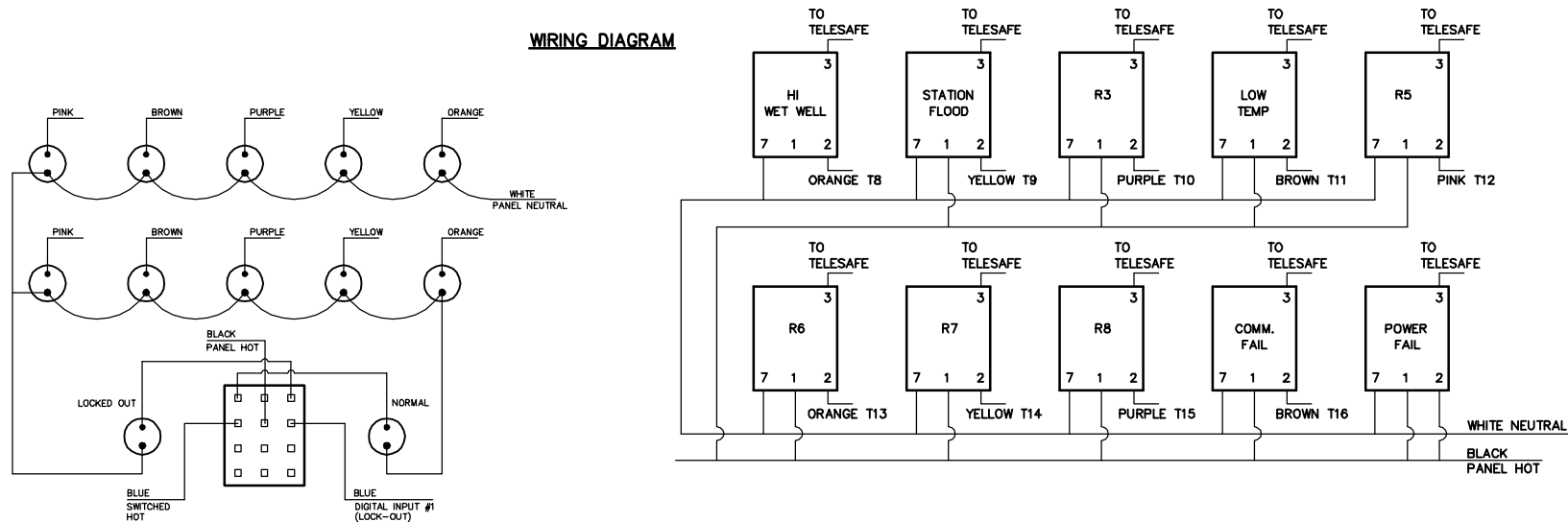
BACK PANEL LAYOUT



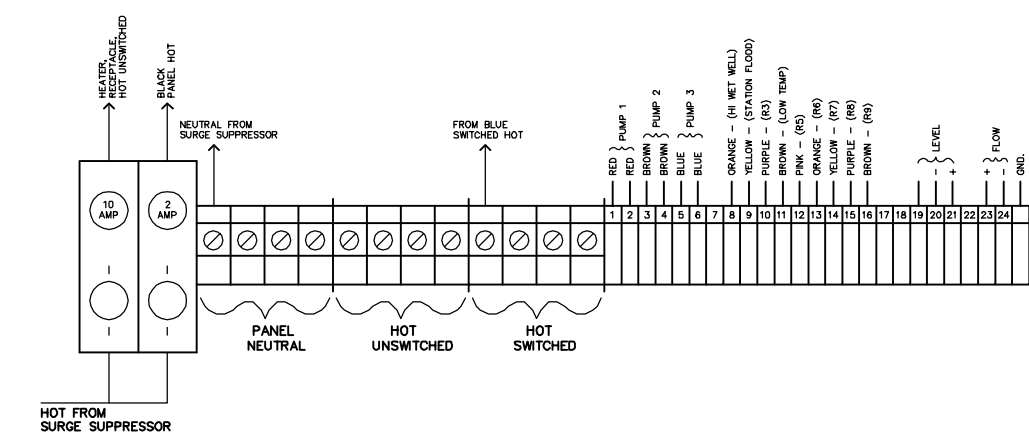
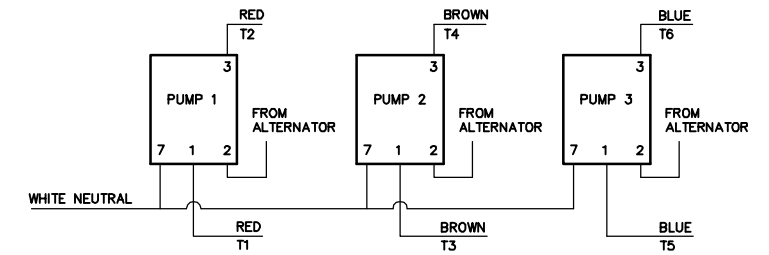
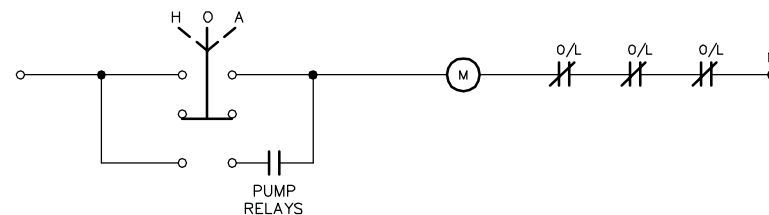
ELECTRICAL DISTRIBUTION LAYOUT



WIRING DIAGRAM



TYPICAL MOTOR STARTER



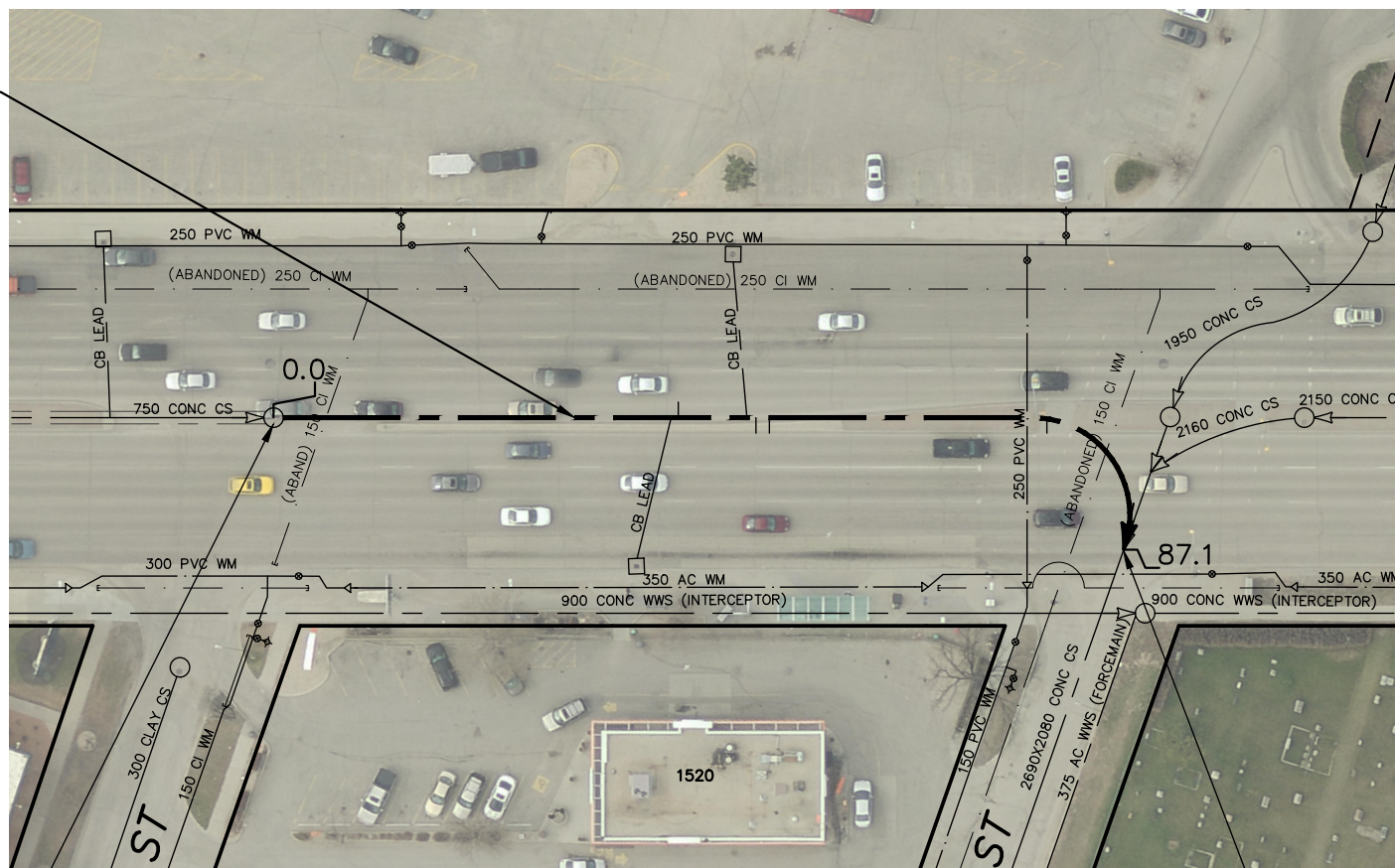
B.M. ELEV.	FIELD BOOK #:	CITY OF WINNIPEG WATER AND WASTE ENGINEERING DIVISION		ENGINEER'S SEAL
POSTED TO LBIS		DESIGNED BY: BS	CHECKED BY: BS	<p>THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT</p> <p>TYLEHURST LIFT STATION</p> <p>ELECTRICAL AND CONTROL</p>
		DRAWN BY: TM	APPROVED BY:	
		HOR. SCALE: N.T.S.	RELEASED FOR CONSTRUCTION:	
		VERTICAL: N.T.S.	DATE: 1998 02 27	
NO. REVISIONS	DATE BY	DATE	DATE	PLOT DATE: 1998 02 27

SHEET OF	
CITY DRAWING NUMBER	
4318	

PORTAGE AVENUE



87.1 OF 750 CONC CS LINED
WITH 18.0mm LINER
(S-MA20011400)



SEWER JUNCTION INFORMATION FROM SEWER VIDEO INSPECTION SEWER ID S-MA20011400		
DISTANCE FROM MH ID S-MH20010391		
DISTANCE	DIAMETER	CLOCK
39.1	150	2
46.6	150	10
47.9	300	10
74.7	150	10

S-MH20010391
RIM 233.92
INV E 226.78
INV W 226.78

S-TE20003568

RICHMOND ST

TYLEHURST ST

MATERIALS LIST

CIPP LINING

ITEM	MANUFACTURER	MODEL	DIMENSION RATIO	PRESSURE CLASS	MATERIAL	TYPE
TUBE	APPLIED FELTS	NATIONAL LINER			POLYURETHANE COATED FELT	
RESIN	ALPHA OWENS CORNING	L758-LTL-14 102T			ENHANCED POLYESTER	

CONTRACTOR: CAPITAL SEWER SERVICES

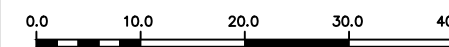
CONSTRUCTION COMPLETION
DATE: 2019/10/01

FOR INDEX SEE
12358

RECORD DRAWING
WATER AND WASTE DEPARTMENT

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES



LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE DATE

NOTE:

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B.M.
ELEV.

NO.	REVISIONS	DATE	BY
1	REVISED TO RECORD DRAWING	2020/10/26	AOM

DESIGNED BY	SC	CHECKED BY	SC
DRAWN BY	MA	APPROVED BY	KZ
SCALE:		RELEASED FOR CONSTRUCTION	
HORIZONTAL	1:750		
VERTICAL			
DATE	2021 04 27	DATE	

PLOT DATE: 2014 10 08

ENGINEER'S SEAL

ORIGINAL MYLAR
SIGNED BY
S.R.J.
COURNOYER
2021-03-11

CONSULTANT DRAWING NUMBER

-

BID OPPORTUNITY: 946-2014
CONTRACT NUMBER: 12



THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

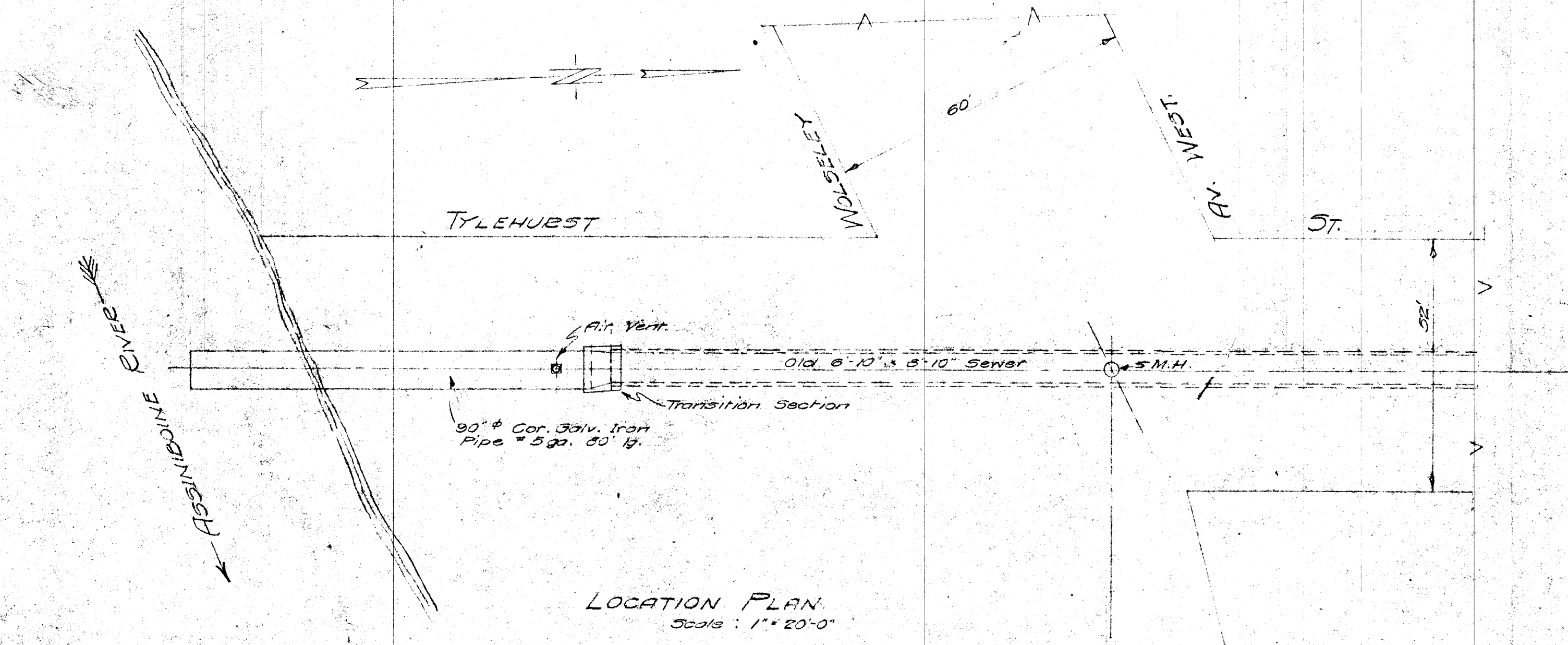
2014 SEWER RENEWALS
BY CIPP LINING - CONTRACT 12
PORTAGE AVENUE
MH AT RICHMOND STREET TO
NODE AT TYLEHURST STREET (S OF CL)

SHEET 43 OF 68

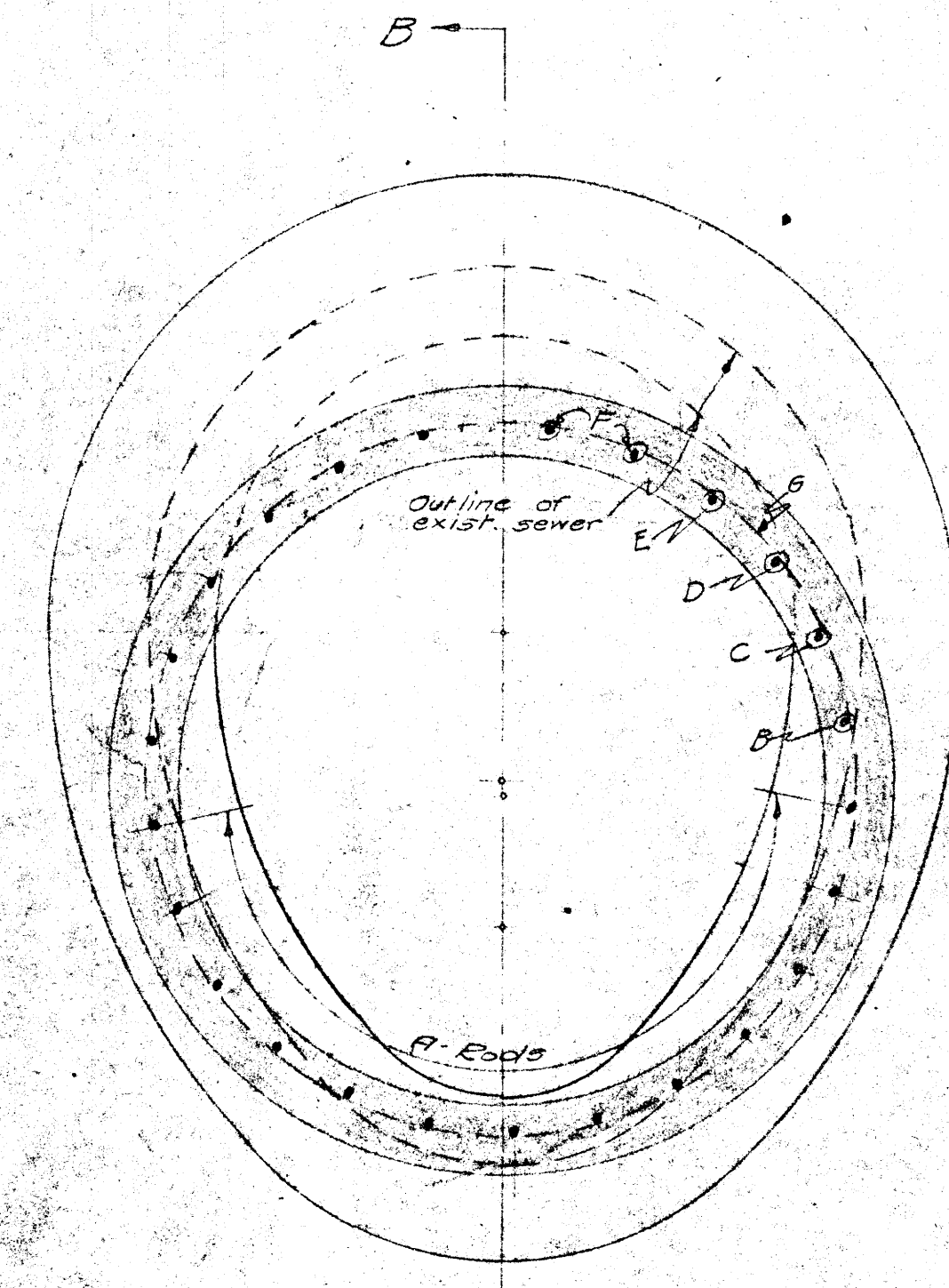
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10853

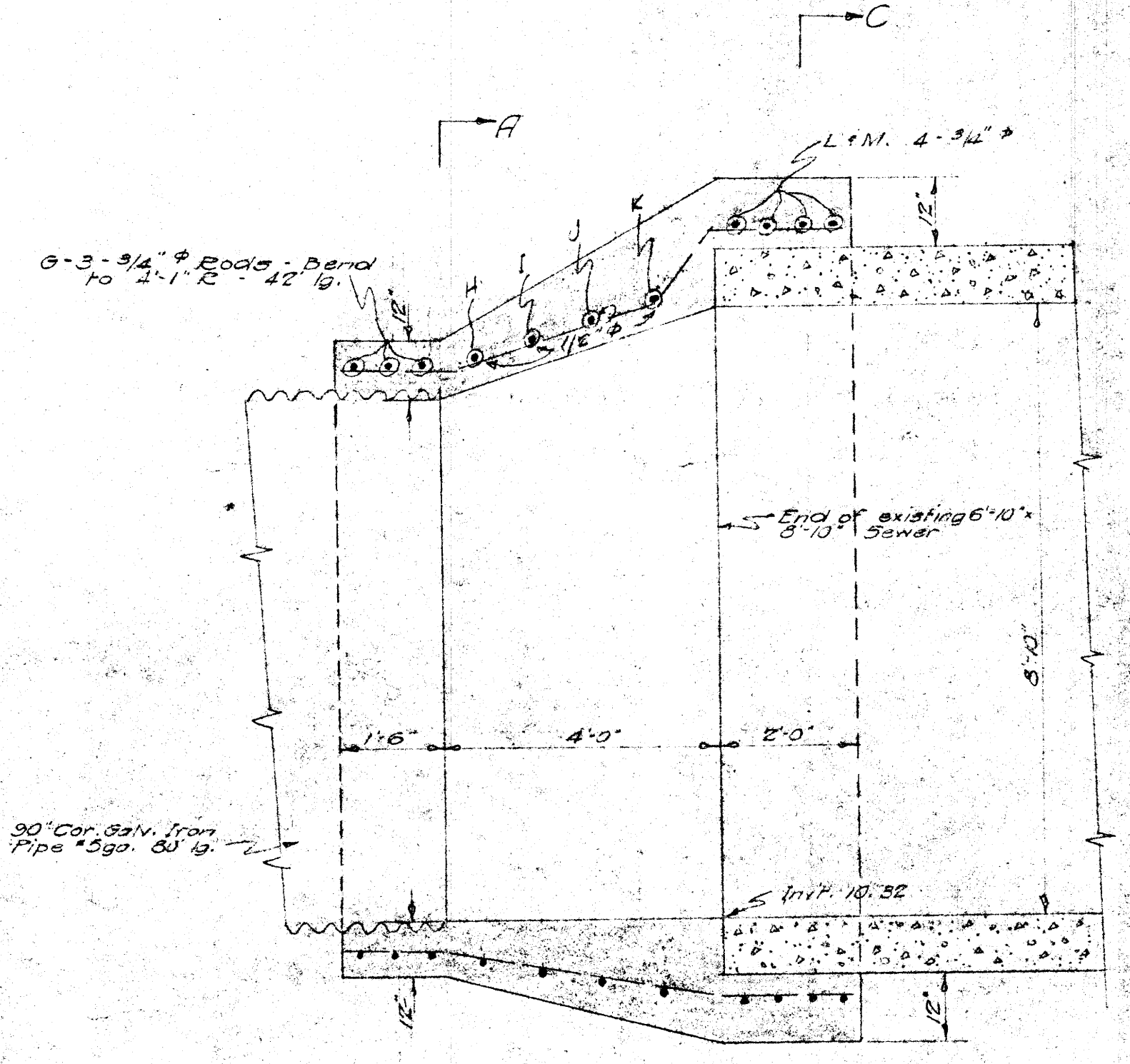
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FILE NAME: 10853.dwg



LOCATION PLAN
Scale: 1" = 20'-0"

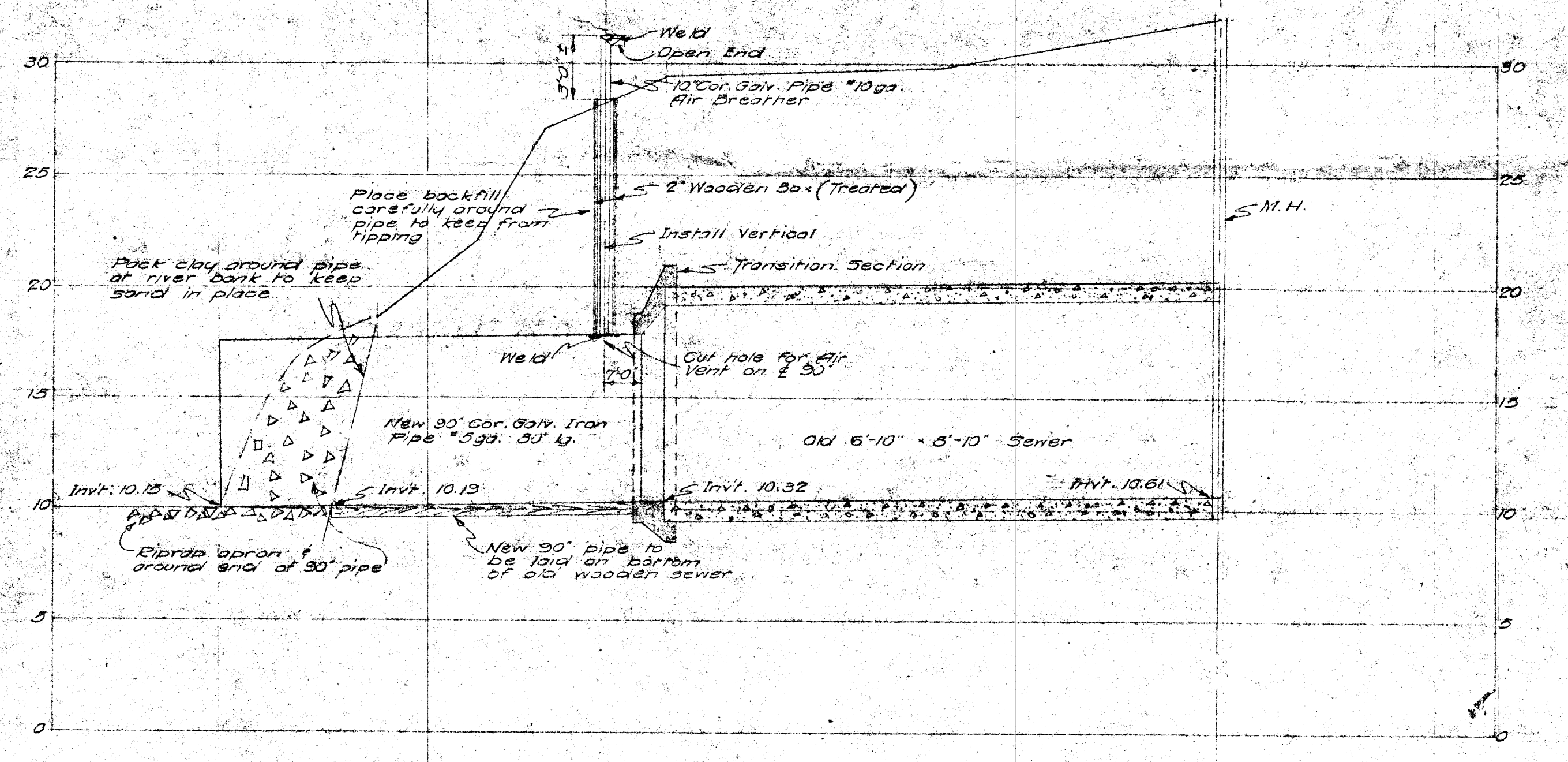


SECTION A-A

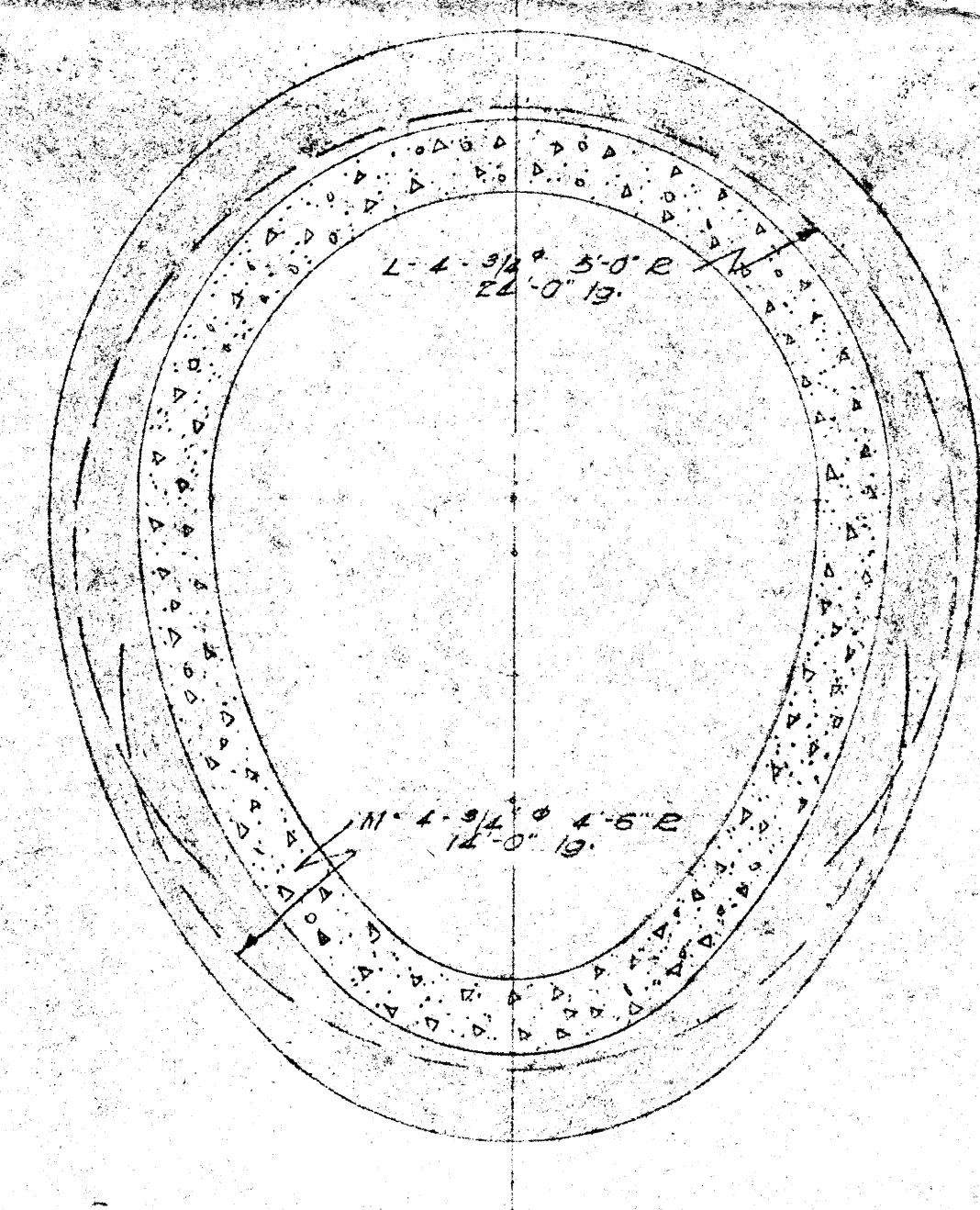


SECTION B-B

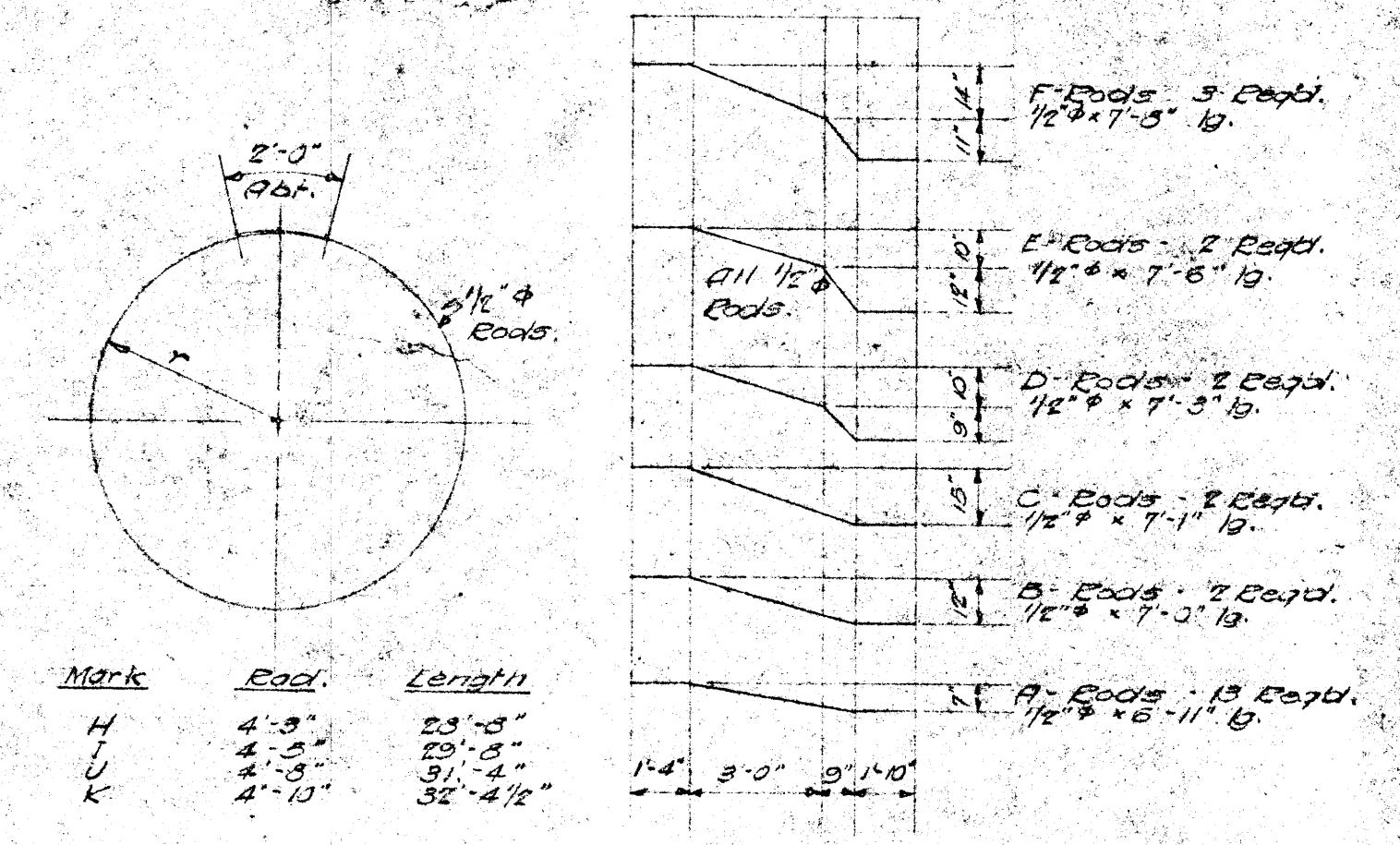
DETAIL OF CONCRETE TRANSITION SECTION



PROFILE
Scale: Hor. 1" = 20'-0"
Vert. 1" = 5'-0"

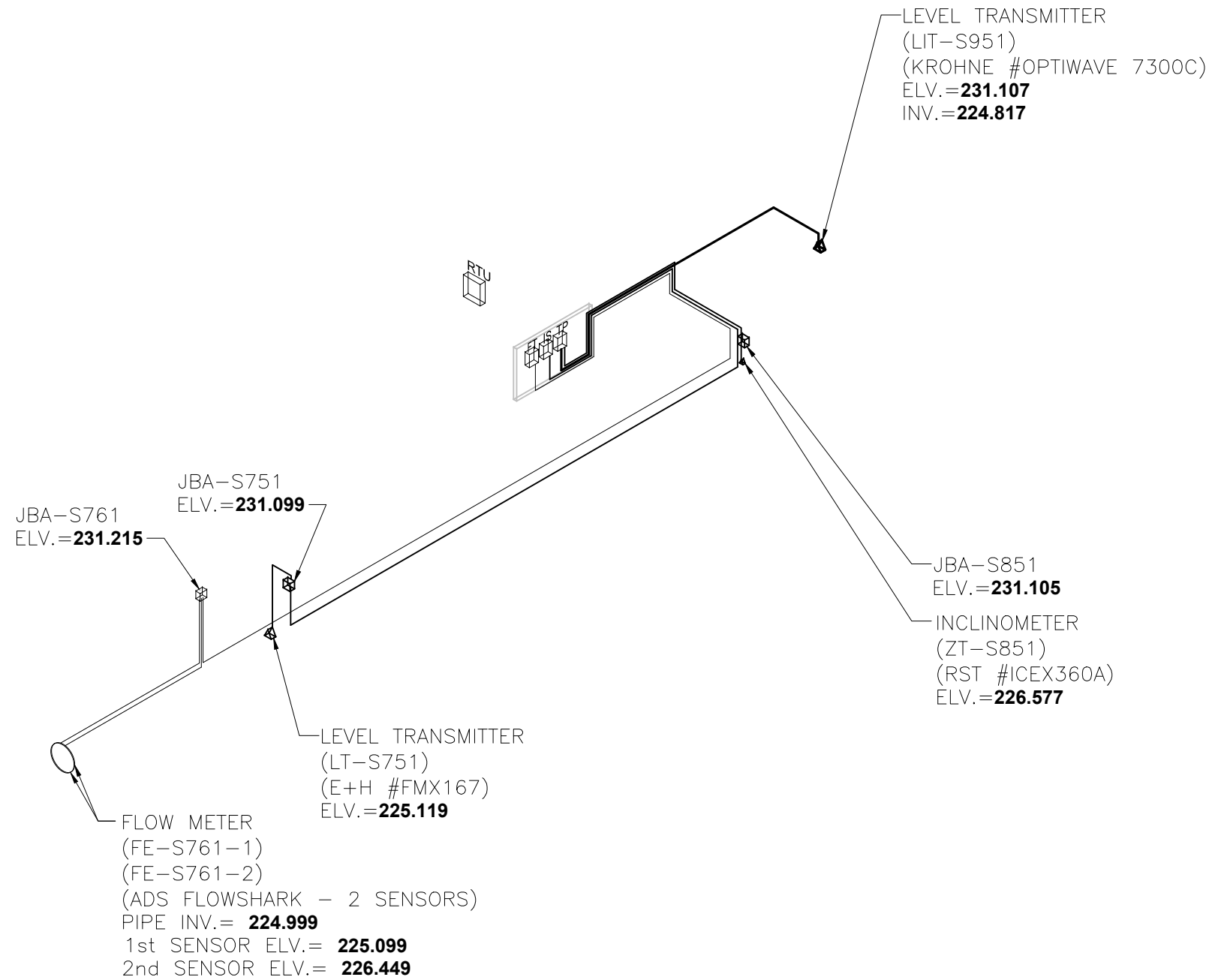


SECTION C-C



DETAIL OF REINFORCING RODS
Scale: 1/2" = 1'-0"

\\CD1201-F02\work_group\1112\active\111214720\0300_drawing\0302_sheet_files\08_electrical\Phase 1 And Phase 2 New Drawings\Phase 1 Drawings\Tylerhurst\14720e-0501-tyl.dwg
 2015/04/16 9:58 AM By: Better, Kyle



LEGEND	
RTU	REMOTE TERMINAL UNIT PANEL
DP	POWER DISTRIBUTION PANEL
TP	TERMINATION PANEL
IS	INTRINSIC SAFETY BARRIER PANEL
JB	JUNCTION BOX
—	INSTRUMENTATION CABLE
FT	FLOW METER TRANSMITTER
⊖	FLOW METER SENSOR
▽	LEVEL TRANSMITTER, INCLINOMETER

NOTES

- ADS FLOWSHARK #20A1E FLOW METER
- ENDRESS+HAUSER #FMX 167 HYDROSTATIC LEVEL TRANSMITTER
- RST INSTRUMENTS #ICEX360A INCLINOMETER
- KROHNE #OPTIWAVE 7300C RADAR LEVEL TRANSMITTER
- FLOOD LEVEL = 229.04
- BOLD ELEVATIONS FROM STANTEC
- TBM Description, Elevation = 231.65
MH on CL of Tylerhurst and Woseley, Center Punch on N Rim of MH, 3.3m W of W Projected Wall and 20.4m N of the N wall of STN

WARNING

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- 1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
- 2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.

SEE PROVINCIAL REGULATION 140/92 FOR DETAILS

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

Certificate of Authorization

Stantec Consulting Ltd.

No. 1301

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE	DATE
--------------------------------	------

NOTE:
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NO.	REVISIONS	DATE	BY	B.M. ELEV.

Stantec Consulting Ltd.

905 Waverley Street, Winnipeg, Manitoba
Tel 204-489-5900 Fax 204-453-9012

DESIGNED BY S.T.	CHECKED BY J.C.
DRAWN BY K.B.	APPROVED BY J.C.
HOR. SCALE: N.T.S.	RELEASED FOR CONSTRUCTION:
VERTICAL:	DATE

DATE 2013.12.04

ENGINEER'S SEAL

CONSULTANT DRAWING NO.
E-0501

THE CITY OF WINNIPEG

WATER AND WASTE DEPARTMENT

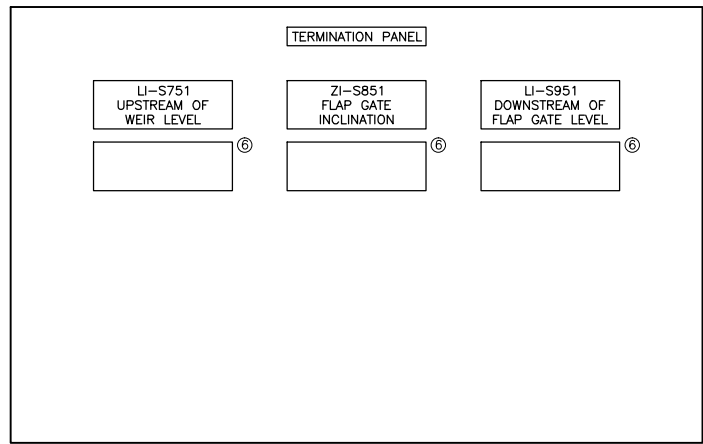
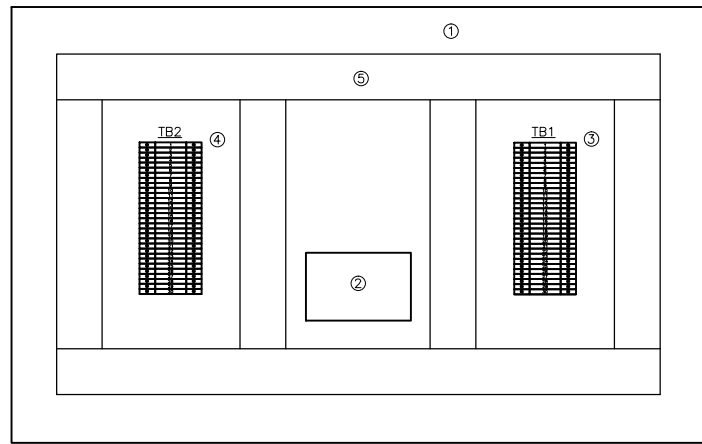
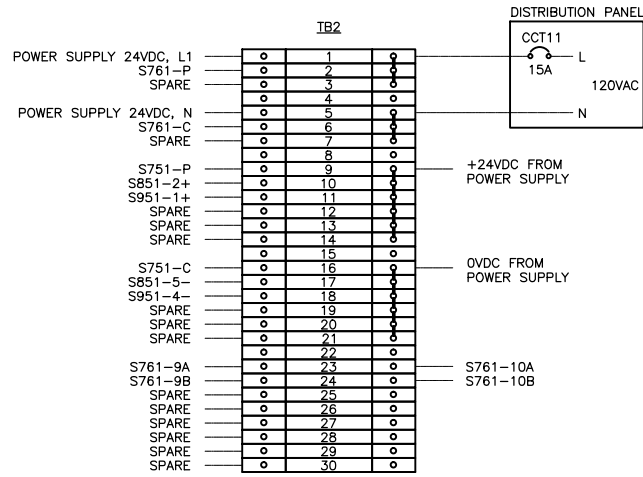
CSO OUTFALL MONITORING

TYLEHURST

3D ISOMETRIC PLAN

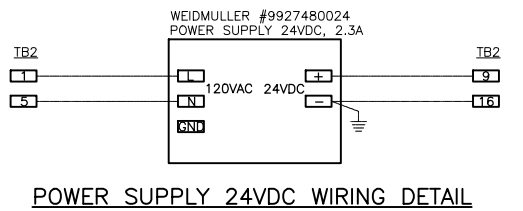
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2	2
CAD FILE DRAWING NUMBER	
14720e-0501-tyl.dwg	
CITY DRAWING NUMBER	
I-0193-A-A0202-002-00	

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 2015/09/10 10:24 AM By: Bekker, Kyle



- NOTES**
- 1) TERMINAL BLOCKS WEIDMULLER #WDU4
 - 2) FUSED TERMINAL BLOCKS WEIDMULLER #WSI6:
 TERMINAL BLOCK 1, C/W FUSE 1A
 TERMINAL BLOCK 2, C/W FUSE 1A
 TERMINAL BLOCK 3, C/W FUSE 1A
 TERMINAL BLOCK 9, C/W FUSE 500mA
 TERMINAL BLOCK 10, C/W FUSE 500mA
 TERMINAL BLOCK 11, C/W FUSE 500mA
 TERMINAL BLOCK 12, C/W FUSE 500mA
 TERMINAL BLOCK 13, C/W FUSE 500mA
 TERMINAL BLOCK 14, C/W FUSE 500mA
 - 3) JUMPERS: 1-3; 5-7; 9-14; 16-21

- TB1**
- | | |
|---|---|
| 1 | ○ |
| 2 | ○ |
| 3 | ○ |
- 1) FUSED TERMINAL BLOCKS WEIDMULLER #WSI6, C/W 500mA FUSE
 - 2) FEED-THROUGH TERMINAL BLOCKS WEIDMULLER #WDU4
 - 3) FEED-THROUGH TERMINAL BLOCKS WEIDMULLER #WDU4
 - 4) REPEAT FOR ALL AIs AND AOs.

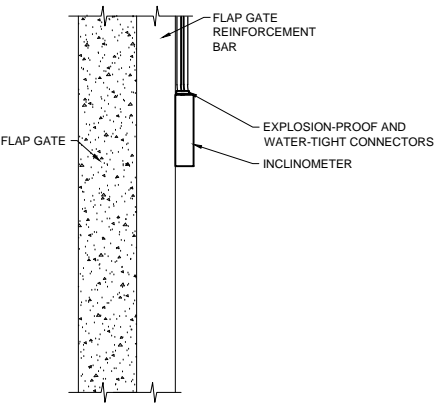
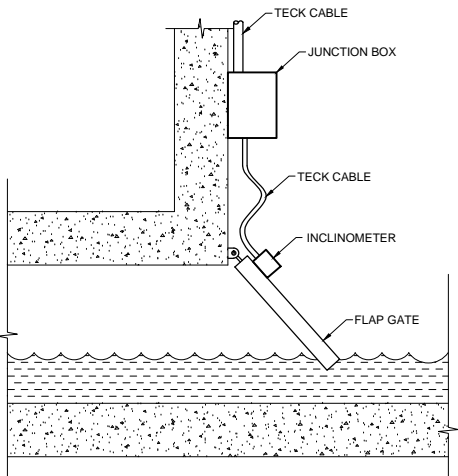


- LEGEND**
- 1) HOFFMAN #CSD20248 TYPE 12 ENCLOSURE C/W PANEL #CP2420
 - 2) WEIDMULLER #9927480024 POWER SUPPLY 24VDC, 2.3A
 - 3) TB1 TERMINAL BLOCKS STRIP. SEE DETAIL.
 - 4) TB2 TERMINAL BLOCKS STRIP. SEE DETAIL.
 - 5) PANDUIT #E1X2LG6 WIRE DUCT C/W COVER #C1LG6
 - 6) SIEMENS #7ML5741 DIGITAL INDICATOR

TB2 STRIP DETAIL

TB1 STRIP DETAIL

POWER SUPPLY 24VDC WIRING DETAIL



ELEVATION VIEW

PLAN VIEW

- GENERAL NOTES**
- 1) CABLE SHALL BE SECURED ON THE FLAP GATE CHAMBER WALL AND FLAP GATE
 - 2) EXTRA CABLE SHALL BE PROVIDED TO RELIEVE CABLE STRESS AT THE JUNCTION OF THE FLAP GATE AND THE CHAMBER WALL
 - 3) INSTRUMENT AND JUNCTION BOX MOUNTING BRACKET NEED TO BE ADJUSTED ACCORDING TO FLAP GATE DESIGN
 - 4) EXPLOSION-PROOF CONNECTOR SHALL BE SEALED WITH EPOXY TO PREVENT GAS MIGRATION

RST INSTRUMENTS INCLINOMETER INSTALLATION DETAIL

No.	INSTRUMENT TAG	DESCRIPTION	MANUFACTURER	MODEL	PLC I/O TYPE	POWER SUPPLY	LOCATION
1	FIT-S761	ULTRASONIC FLOW METER	ADS FLOWSHARK	20A1E	3X AI, 1XD1	120VAC	UPSTREAM OF WEIR
2	LT-S751	HYDROSTATIC LEVEL TRANSMITTER	ENDRESS+HAUSER	FMX167	1X AI	24VDC	UPSTREAM OF WEIR
3	ZT-S851	INCLINATION TRANSMITTER	RST INSTRUMENTS	ICEX360A	1X AI	24VDC	FLAP GATE
4	LIT-S951	RADAR LEVEL TRANSMITTER	KROHNE	OPTIWAVE 7300C	1X AI	24VDC	DOWNSTREAM OF FLAP GATE

INSTRUMENT LIST

No.	CABLE TAG	FROM	TO	DESCRIPTION	MANUFACTURER	CATALOG No.	NOTE
1	CA-S761-2	JBA-S761	FIT-S761	#16 AWG, 4-TRIAD, TWISTED, SHIELDED	TEXCAN	C3-9336-1604-19	SENSOR CABLE
2	CA-S761-3	FIT-S761	TERMINATION PANEL	#16 AWG, 4-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1604-19	3X AI TO RTU
3	CA-S761-4	FIT-S761	TERMINATION PANEL	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	1X DI TO RTU
4	C-S761-5	FIT-S761	TERMINATION PANEL	#14 AWG, 2C, TECK 90	TEXCAN	05001-01-010	POWER 120VAC
5	CA-S751-1	LT-S751	JBA-S751	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
6	CA-S751-2	JBA-S751	LY-S751	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
7	CA-S751-3	LY-S751	TERMINATION PANEL	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
8	CA-S851-1	ZT-S851	JBA-S851	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
9	CA-S851-2	JBA-S851	TERMINATION PANEL	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
10	CA-S951-1	LIT-S951	TERMINATION PANEL	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
11	C-TP1	DISTRIBUTION PANEL	TERMINATION PANEL	#12 AWG, 2C, TECK 90	TEXCAN	05002-01-010	POWER 120VAC

CABLE LIST

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METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

APEGM
 Certificate of Authorization
 Stantec Consulting Ltd.
 No. 1301

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE	DATE

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B.M. ELEV.	NO.	REVISIONS	DATE	BY
	C	AS BUILT DRAWING	15.04.16	J.C.
	B	ISSUED FOR CONSTRUCTION	14.06.27	J.C.
	A	ISSUED FOR CLIENT REVIEW	14.06.20	J.C.

Stantec Consulting Ltd.
 905 Waverley Street, Winnipeg, Manitoba
 Tel 204-489-5900 Fax 204-453-9012

DESIGNED BY	S.T.	CHECKED BY	B.J.
DRAWN BY	S.T.	APPROVED BY	B.J.
HOR. SCALE:	N.T.S.	RELEASED FOR CONSTRUCTION:	
VERTICAL:		DATE	2014.01.28

ENGINEER'S SEAL

CONSULTANT DRAWING NO.
E-0502

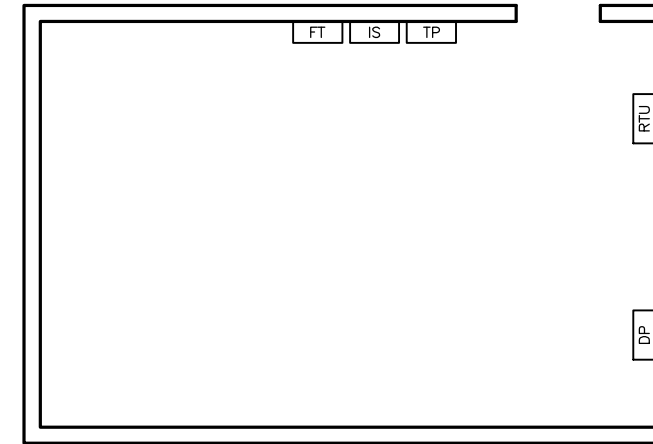
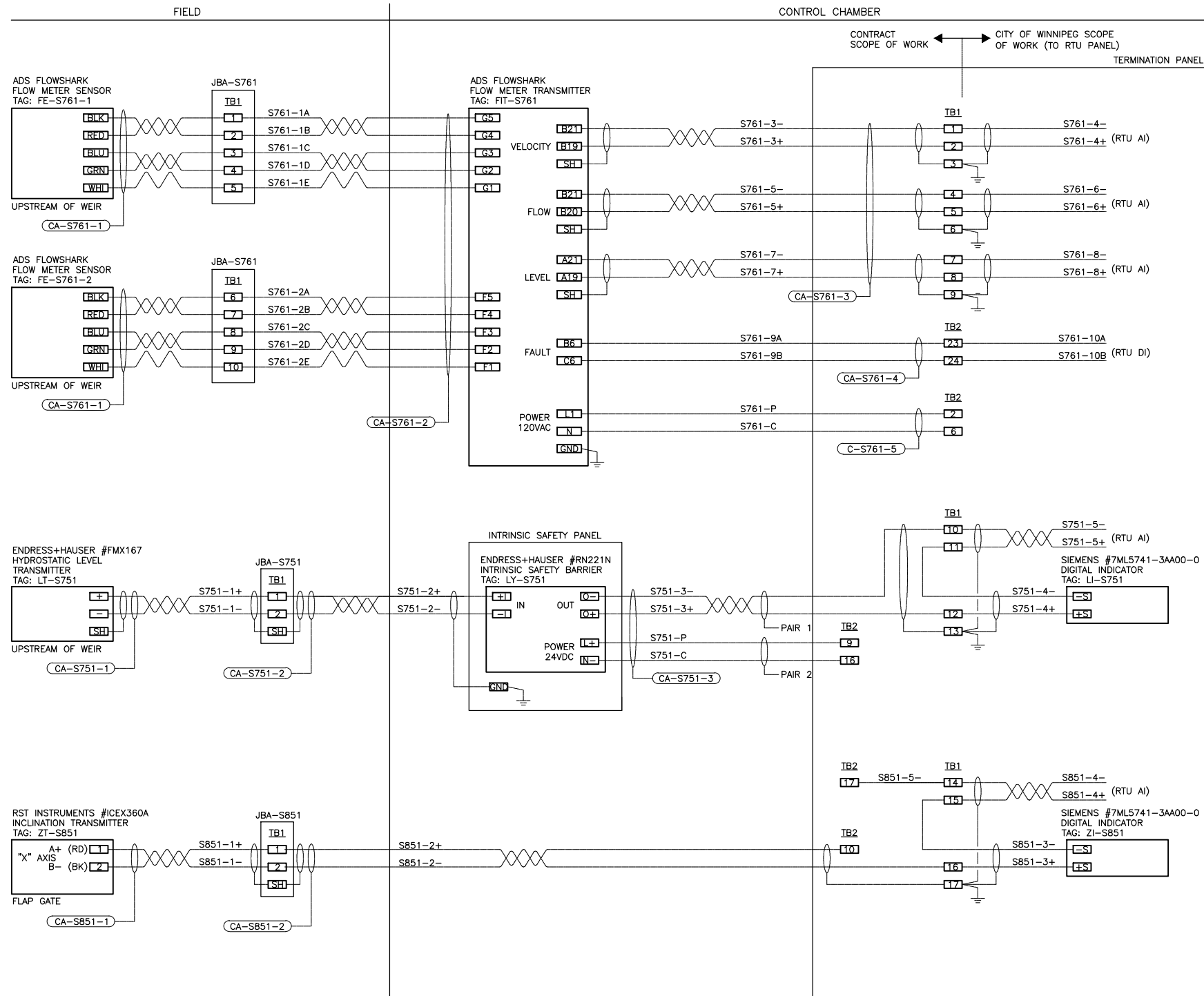
THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

Winnipeg

CSO OUTFALL MONITORING
 TYLEHURST
 TERMINATION PANEL LAYOUT
 INSTRUMENT LIST, CABLE LIST

SHEET	OF
1	1
CAD FILE DRAWING NUMBER 14720e-0502-tyl.dwg	
CITY DRAWING NUMBER I-0193-A-A0203-001-00	

\\CD1045-F01\workgroup_2\1112\active\11214720\0300_sheet_files\08_electrical\Phase 1 And Phase 2 New Drawings\Phase 1 Drawings\Tylehurst\14720e-0503-tyl.dwg
 2015/09/10 10:24 AM By: Bekker, Kyle



ELECTRICAL ROOM FLOOR PLAN

LEGEND

- RTU - NEW RTU PANEL
- TP - NEW TERMINATION PANEL
- IS - NEW INTRINSIC SAFETY PANEL
- DP - EXISTING DISTRIBUTION PANEL 120VAC
- FT - NEW FLOW METER TRANSMITTER

NOTES

- 1) INSTALL TWO FULL SHEETS OF PLYWOOD AND MOUNT ON BACKBOARD RTU PANEL, TP PANEL, INTRINSIC SAFETY PANEL AND FLOW METER TRANSMITTER.
- 2) GROUND INSTRUMENTATION CABLE SHIELDS ONLY AT TERMINATION PANEL.

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METRIC

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 DECIMALIZED NUMBERS INDICATE METRES



APEGM
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 Stantec Consulting Ltd.
 No. 1301

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NO.	REVISIONS	DATE	BY
C	AS BUILT DRAWING	15.04.16	J.C.
B	ISSUED FOR CONSTRUCTION	14.06.27	J.C.
A	ISSUED FOR CLIENT REVIEW	14.06.20	J.C.


Stantec Consulting Ltd.
 905 Waverley Street, Winnipeg, Manitoba
 Tel 204-489-5900 Fax 204-453-9012

DESIGNED BY	S.T.	CHECKED BY	B.J.
DRAWN BY	S.T.	APPROVED BY	B.J.
HOR. SCALE:	N.T.S.	RELEASED FOR CONSTRUCTION:	
VERTICAL:		DATE	2014.01.28

ENGINEER'S SEAL

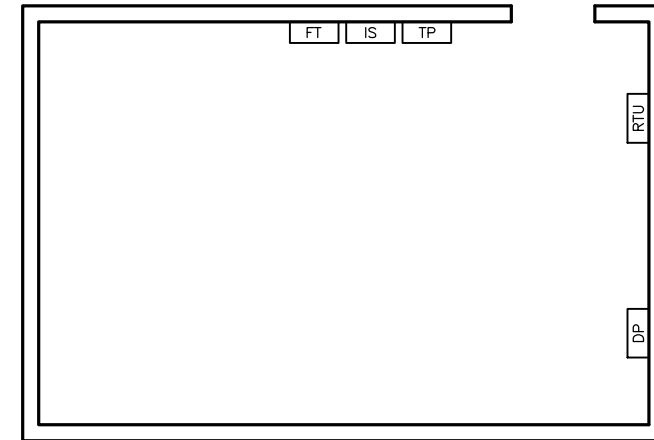
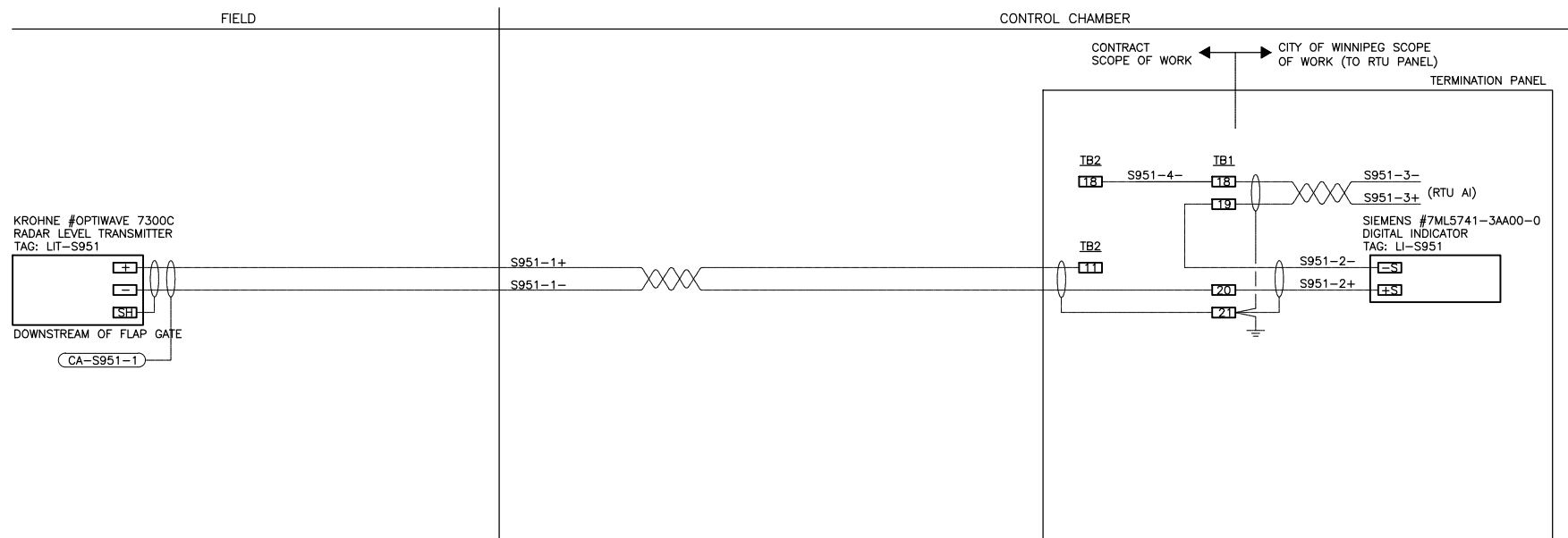
CONSULTANT DRAWING NO.
E-0503


THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

CSO OUTFALL MONITORING
 TYLEHURST
ELECTRICAL ROOM LAYOUT
 LOOP WIRING DIAGRAMS

SHEET	OF
1	2
CAD FILE DRAWING NUMBER 14720e-0503-tyl.dwg	
CITY DRAWING NUMBER I-0193-A-A0204-001-00	

\\CD1045-F01\workgroup_2\1112\active\11214720\0300_drawing\0302_sheet_files\08_electrical\Phase 1 And Phase 2 New Drawings\Phase 1 Drawings\Tylehurst\14720e-0503-tyl.dwg
 2015/09/10 10:24 AM By: Bekker, Kyle



ELECTRICAL ROOM FLOOR PLAN

LEGEND

- RTU - NEW RTU PANEL
- TP - NEW TERMINATION PANEL
- IS - NEW INTRINSIC SAFETY PANEL
- DP - EXISTING DISTRIBUTION PANEL 120VAC
- FT - NEW FLOW METER TRANSMITTER

NOTES

- 1) INSTALL TWO FULL SHEETS OF PLYWOOD AND MOUNT ON BACKBOARD RTU PANEL, TP PANEL, INTRINSIC SAFETY PANEL AND FLOW METER TRANSMITTER.
- 2) GROUND INSTRUMENTATION CABLE SHIELDS ONLY AT TERMINATION PANEL.

WARNING

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:

- 1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
- 2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.

SEE PROVINCIAL REGULATION 140/92 FOR DETAILS

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

APEGM
Certificate of Authorization
Stantec Consulting Ltd.
No. 1301

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE DATE

NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

NO.	REVISIONS	DATE	BY
C	AS BUILT DRAWING	15.04.16	J.C.
B	ISSUED FOR CONSTRUCTION	14.06.27	J.C.
A	ISSUED FOR CLIENT REVIEW	14.06.20	J.C.

Stantec Consulting Ltd.
905 Waverley Street, Winnipeg, Manitoba
Tel 204-489-5900 Fax 204-453-9012

DESIGNED BY	S.T.	CHECKED BY	B.J.
DRAWN BY	S.T.	APPROVED BY	B.J.
HOR. SCALE:	N.T.S.	RELEASED FOR CONSTRUCTION:	
VERTICAL:		DATE	

ENGINEER'S SEAL

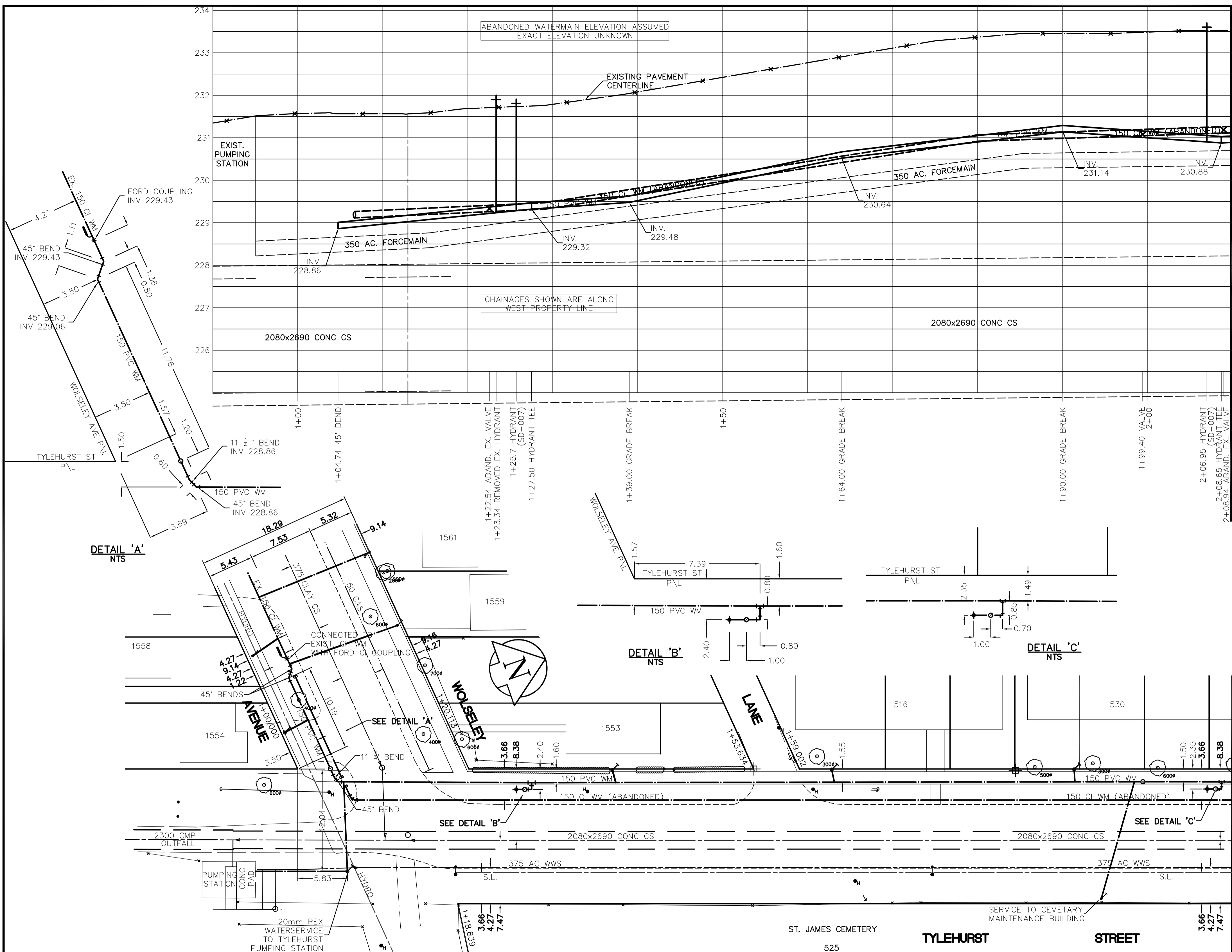
CONSULTANT DRAWING NO.
E-0503

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

CSO OUTFALL MONITORING
TYLEHURST
ELECTRICAL ROOM LAYOUT
LOOP WIRING DIAGRAMS

SHEET	OF
2	2
CAD FILE DRAWING NUMBER 14720e-0503-tyl.dwg	
CITY DRAWING NUMBER I-0193-A-A0204-002-00	

SHEET: COW-WM-A1 (11/2007) FILE NAME: L:\work\99942\99942-02a-CAD\DWG\Water\99942-02a.dwg LAYOUT NAME: D-9176



- CONSTRUCTION NOTES**
1. INSTALLED WATERMAIN BY TRENCHLESS METHODS.
 2. ALL MATERIALS CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
 3. INSTALLED ALL HYDRANTS WITH FLANGE ELEVATION 50mm-150mm ABOVE FINISHED GRADE.
 4. REPLACED ALL EXISTING LEAD SERVICES FROM THE PROPOSED WATERMAIN TO PROPERTY LINE.
 5. ALL VALVES ARE RED TOP (COUNTER CLOCKWISE TO CLOSE).
 6. BACKFILL UNDER OR WITHIN 1.0m OF PAVEMENTS, INCLUDING SIDEWALKS IS CLASS 3 BACKFILL EXCEPT AS NOTED. BACKFILL IN BOULEVARDS IS CLASS 5 BACKFILL.

- MATERIAL LIST**
- WATERMAIN:**
 150mm PVC WM IPEX BLUE BRUTE DR-18
 150mm GATE VALVE - CLOW
 VALVE BOX - WDVW W/ IPEX VALVE BOX BOTTOM
 HYDRANT - CLOW, CONCORD
- FITTINGS:**
 150x150x150mm PVC TEE - IPEX C907
 150mm PVC BENDS - IPEX C907
 150mm CI COUPLING - FORD
- WATER SERVICES:**
 19mm COPPER WOLVERINE TYPE K
 19mm UNION - FORD
 19mm CORPORATION STOP - FORD
 19mm CURB STOP - FORD
 38mm COPPER WOLVERINE TYPE K
 38mm CORPORATION STOP - FORD
 38mm CONNECTION SADDLE - FORD
 19mm PEX TUBING - REHAU MUNICIPEX (FOR TYLERHURST PUMP STATION ONLY)
 CURB BOX - WDVW - MINNEAPOLIS STYLE
 ANODE - 24lb. INTERPROVINCIAL CORROSION CONTROL
- CONTRACTOR:**
 KODIAK CONSTRUCTION INC.

EARTH TECH
 Earth Tech (Canada) Inc. Ppg. MB. 204.477.5381

AS CONSTRUCTED
 SIG.....DATE.....

APEGM
 Certificate of Authorization
 Earth Tech Canada Inc.
 No. 730 Expiry: April 30, 2008

METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

PROJECT COMPLETION DATE: NOVEMBER 13, 2007

ADDRESS	NATURE OF SERVICE	SIZE	MATERIAL	DISTANCE SC TO PROPERTY	POSITION OF SC (curb stop)	STREET SERVICE	POSITION OF CC (corp)	STREET SERVICE	COMMENTS:
499 TYLERHURST ST	COMMERCIAL	19 mm	PEX	13.4 m E of W/L	13.4 m E of W/L	TYLERHURST	Long: 4.3 m N of SL	WOLSELEY (PROJECTED FROM WEST)	RENEWED TO PL W/ 20mm PEX TYLERHURST PUMPING STATION
1559 WOLSELEY AVE	RESIDENTIAL	19 mm	COPPER	0.6 m	18.9 m W of W/L	TYLERHURST	Long: 11.6 m W of W/L	TYLERHURST	RECONNECTED
1554 WOLSELEY AVE	RESIDENTIAL	19 mm	COPPER	0.4 m	4.5 m W of W/L	TYLERHURST	Long: 4.7 m W of W/L	TYLERHURST	RENEWED TO PROPERTY
1553 WOLSELEY AVE	RESIDENTIAL	19 mm	COPPER	0.1 m	16.9 m N of W/L	WOLSELEY	Long: 17.3 m N of W/L	WOLSELEY	RENEWED TO PROPERTY

ADDRESS	NATURE OF SERVICE	SIZE	MATERIAL	DISTANCE SC TO PROPERTY	POSITION OF SC (curb stop)	STREET SERVICE	POSITION OF CC (corp)	STREET SERVICE	COMMENTS:
530 TYLERHURST ST	RESIDENTIAL	38 mm	COPPER	0.0 m	71.2 m N of NL	WOLSELEY BLDG	Long: 71.3 m N of NL	WOLSELEY	RENEWED TO PROPERTY
516 TYLERHURST ST	RESIDENTIAL	38 mm	COPPER	0.1 m	42.7 m N of NL	WOLSELEY BLDG	Long: 43.0 m N of NL	WOLSELEY	RENEWED TO PROPERTY
525 TYLERHURST ST	COMMERCIAL	19 mm	COPPER	0.6 m	67.1 m N of NL	WOLSELEY (PROJECTED FROM WEST) BLDG - 500 TYLERHURST	Long: 78.3 m N of NL	WOLSELEY	RECONNECTED - UNION 1.7m TO CC (CEMETARY BUILDING SERVICE)

EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PROFILE	PROPOSED
150 mm W.M.	WATERMAIN	150 mm W.M.	HYDRO	TELEPHONE	150 mm W.M.	WATERMAIN	HYDRANT	
300mm L.D.S.	LAND DRAINAGE SEWER	300mm L.D.S.	CONCRETE	PROPERTY LINE	300mm L.D.S.	LAND DRAINAGE SEWER	VALVE	
250mm W.W.S.	WASTEWATER SEWER	250mm W.W.S.	ASPHALT	SURVEY BAR	250mm W.W.S.	WASTE WATER SEWER	Q PROFILE	
	MANHOLE		PROPERTY LINE	CURB STOP				
	CATCH BASIN			TREE				
	CURB INLET			ANODE				
	JUNCTIONS			CONCRETE SIDEWALK				
	CULVERT			FENCE				
	GAS							

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES DATE COMMITTEE

NOTE:
 LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

NO.	REVISIONS	DATE	BY	DATE	2007/04/11	DATE	2007/05/31
1	AS CONSTRUCTED	2008/01/30	JCP				
B	ISSUED FOR TENDER	2007/05/31	GSK				
A	ISSUED FOR REVIEW	2006/05/26	GSK				

EARTH TECH
 A tyco INTERNATIONAL LTD. COMPANY
 Earth Tech (Canada) Inc. Winnipeg, Manitoba 204.477.5381

DESIGNED BY: GSK, GDL
 CHECKED BY: GSK

DRAWN BY: GDL
 APPROVED BY:

HOR. SCALE: 1:250
 VERTICAL SCALE: 1:50

RELEASED FOR CONSTRUCTION BY: K. ZUREK

CONSULTANT DRAWING NO. 99942-C06

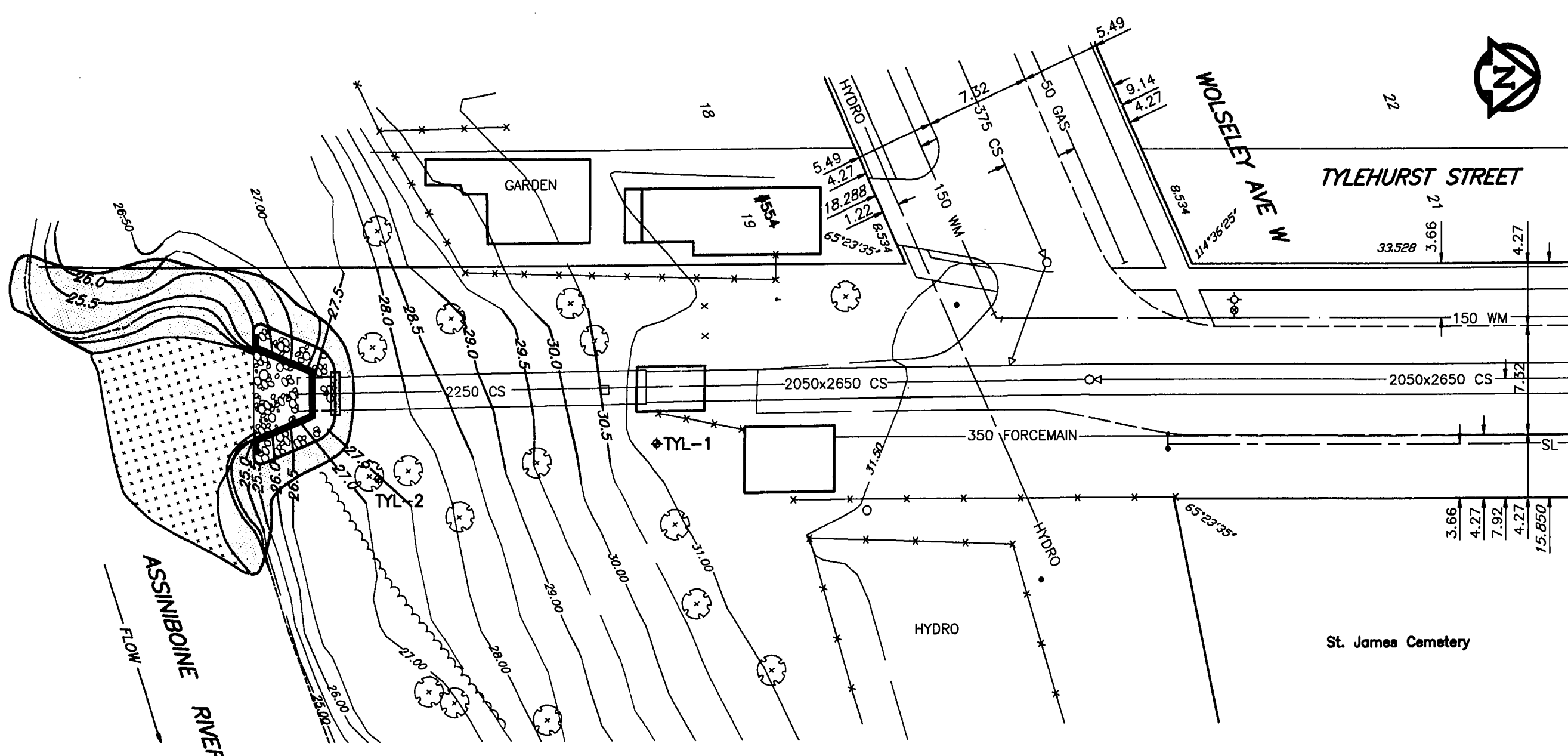
ENGINEER'S SEAL
 PROVINCE OF MANITOBA
 ORIGINAL SIGNED BY
FITCHETT
 29/05/2007
 REGISTERED PROFESSIONAL ENGINEER

THE CITY OF WINNIPEG
 Winnipeg WATER AND WASTE DEPARTMENT

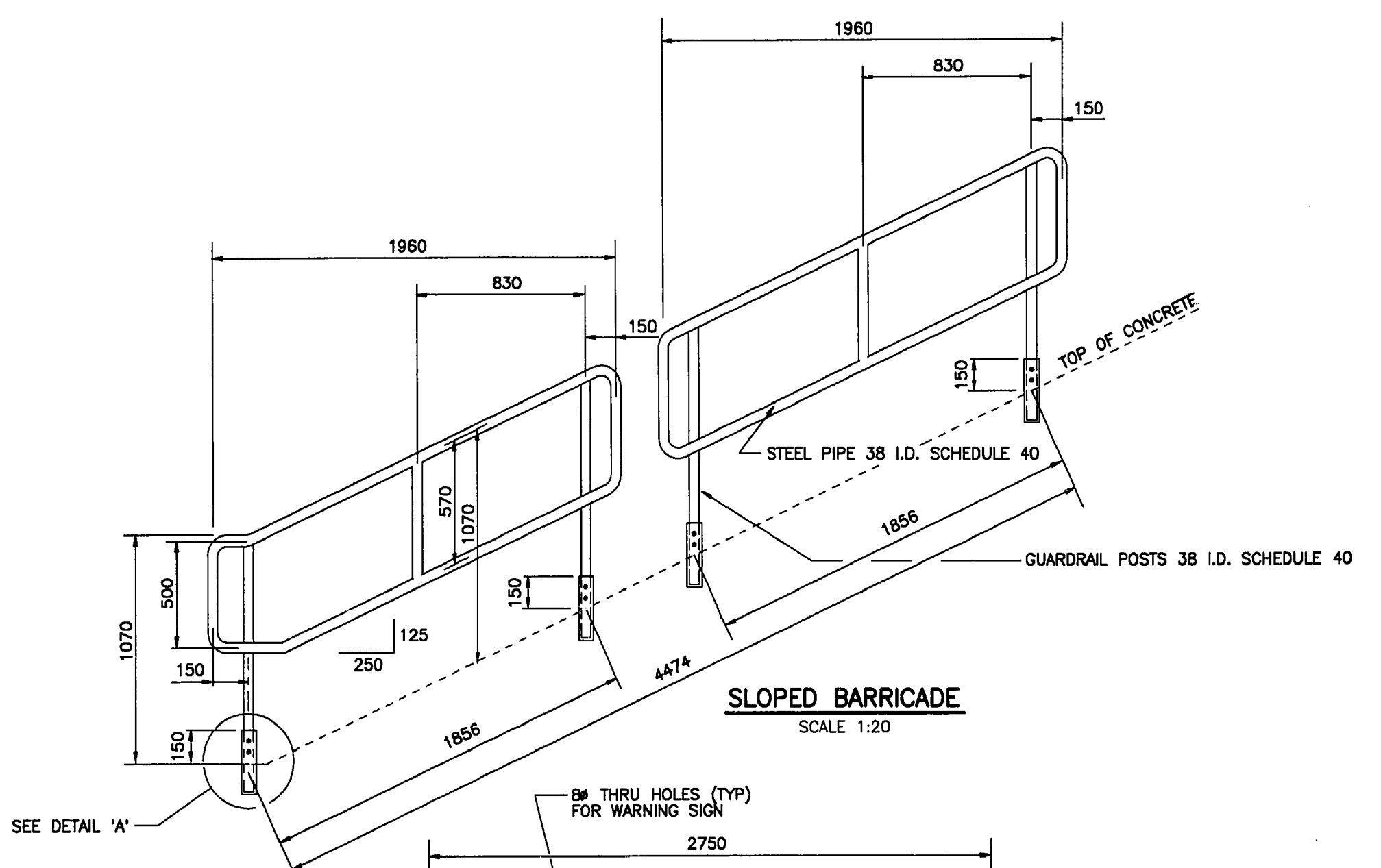
2007 WATERMAIN RENEWALS CONTRACT 6

TYLERHURST STREET
 WOLSELEY AVENUE TO PORTAGE AVENUE
 WOLSELEY AVENUE TO STA. 2+10

SHEET 6 OF 8
 CITY DRAWING NUMBER D-9176

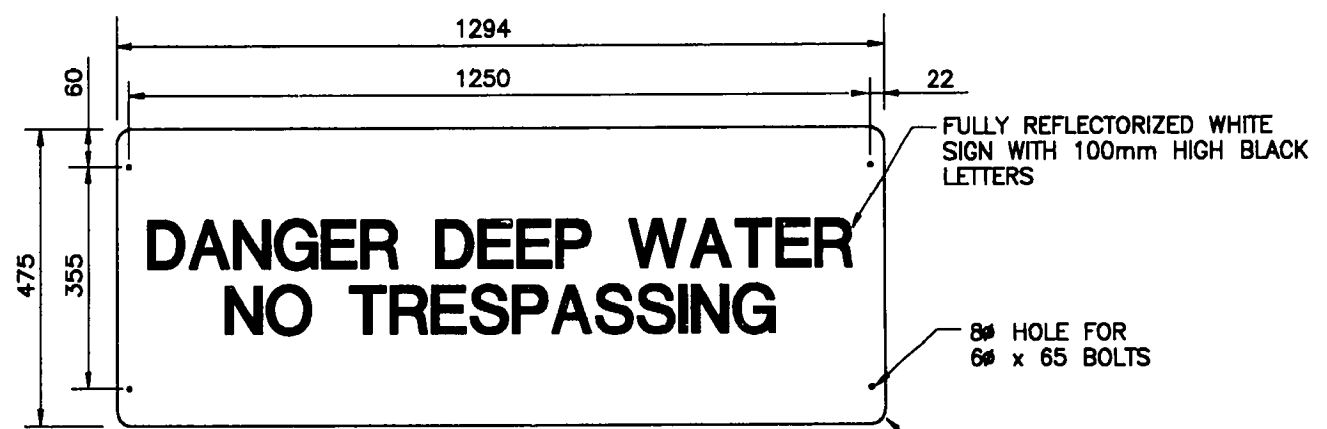


LOCATION PLAN
SCALE 1:250

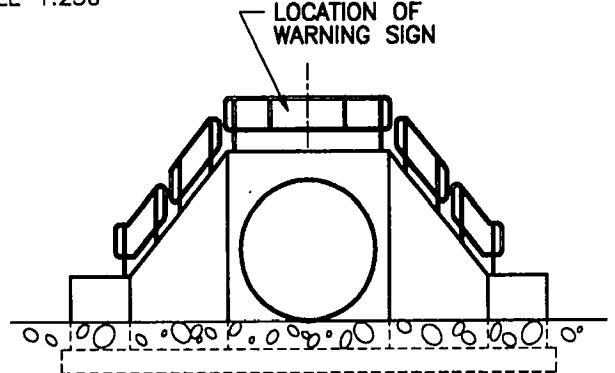


SLOPED BARRICADE
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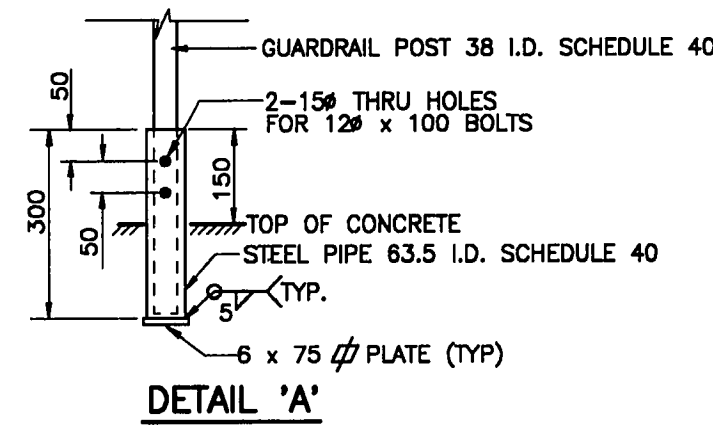
LEVEL BARRICADE
SCALE 1:20



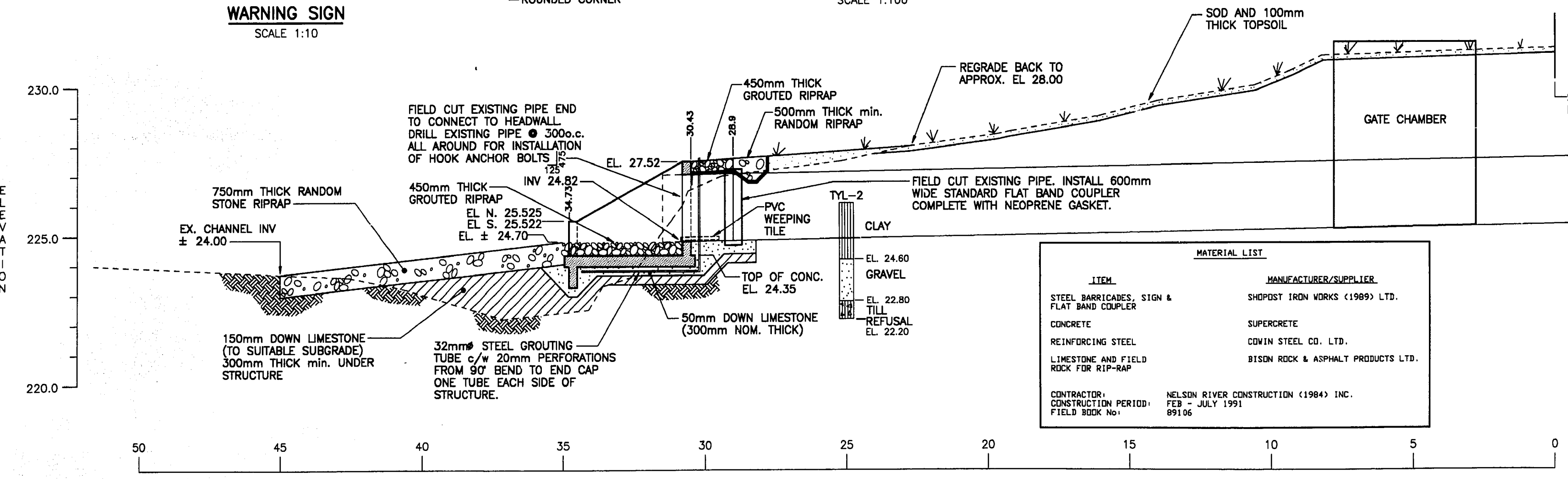
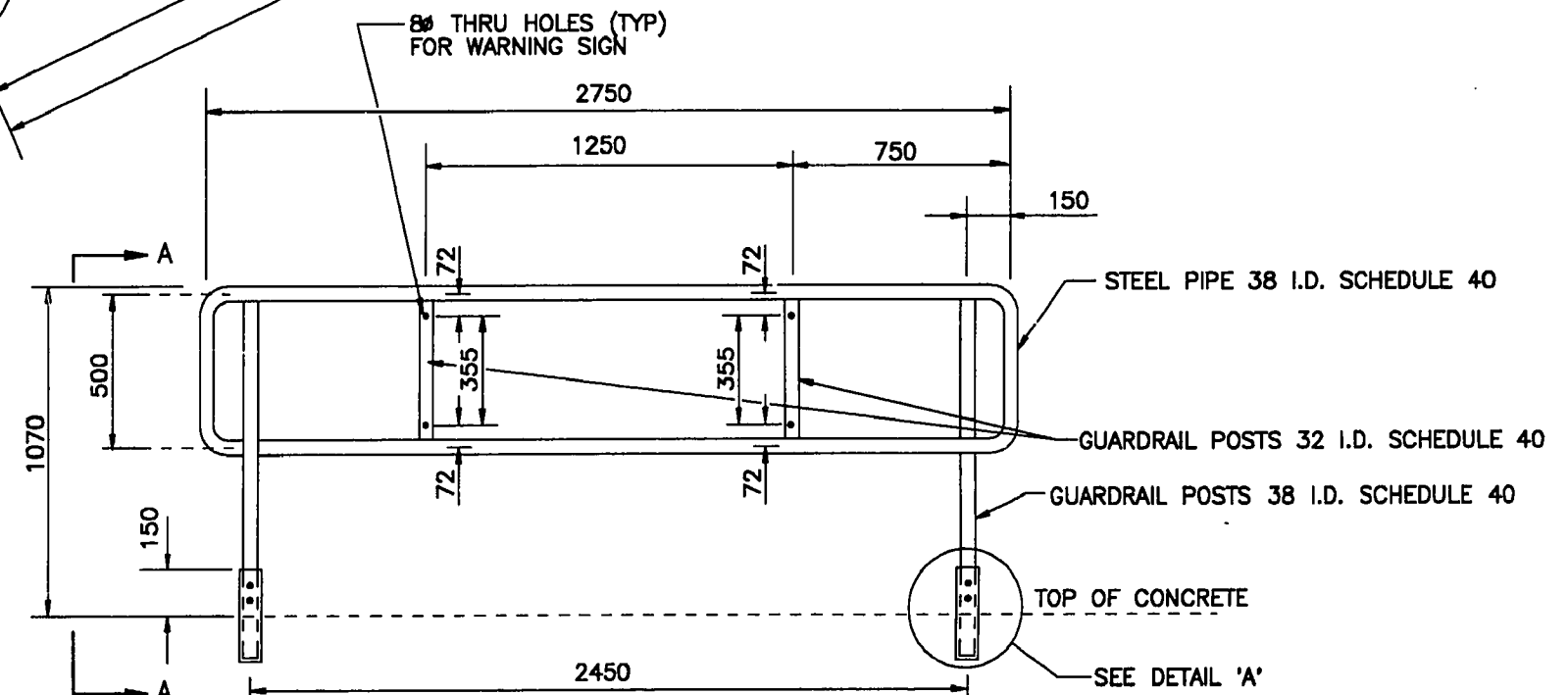
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SCALE 1:10



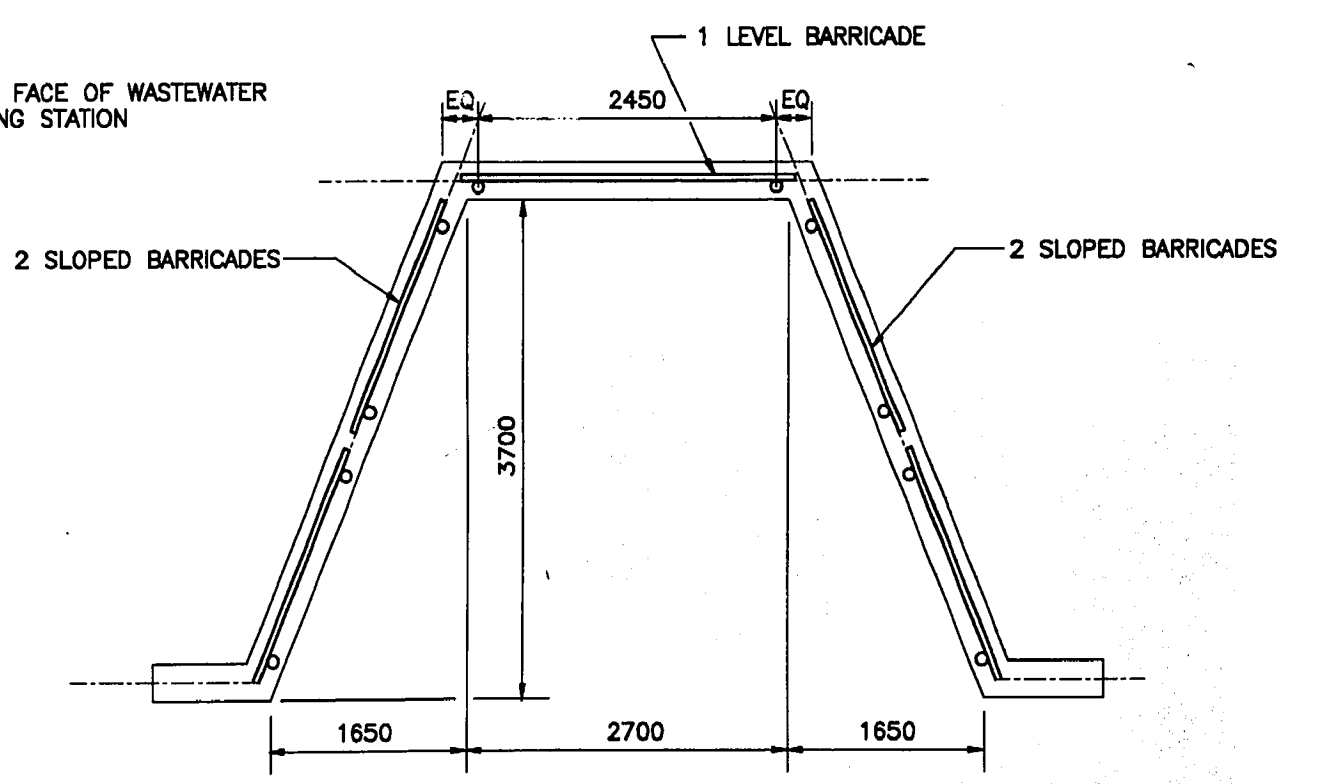
END VIEW
SCALE 1:100



DETAIL 'A'
SCALE 1:10

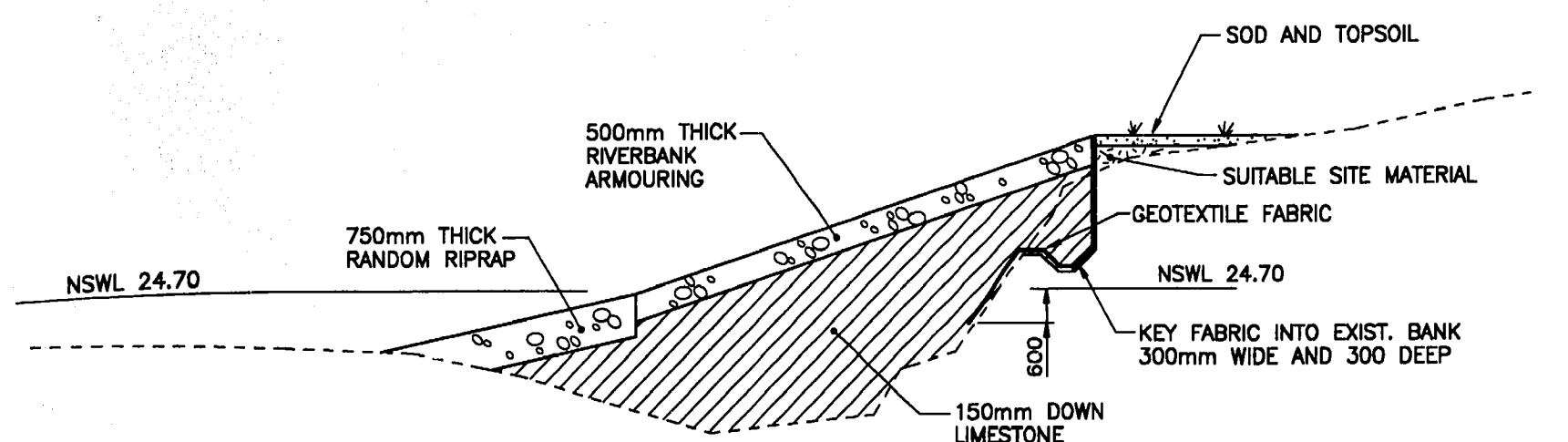


ELEVATION
SCALE 1:100



PLAN VIEW
SCALE 1:50

MATERIAL LIST	
ITEM	MANUFACTURER/SUPPLIER
STEEL BARRICADES, SIGN & FLAT BAND COUPLER	SHOPOST IRON WORKS (1989) LTD.
CONCRETE	SUPERCRETE
REINFORCING STEEL	CDWIN STEEL CO. LTD.
LIMESTONE AND FIELD ROCK FOR RIP-RAP	BISON ROCK & ASPHALT PRODUCTS LTD.
CONTRACTOR: NELSON RIVER CONSTRUCTION (1984) INC. CONSTRUCTION PERIOD: FEB - JULY 1991 FIELD BOOK No. 89106	



RIVERBANK ARMOURING
SCALE N.T.S.

THIS DRAWING HAS BEEN CREATED ELECTRONICALLY USING COMPUTER AIDED DESIGN AND DRAFTING TECHNIQUES AND EMPLOYING TOTAL STATION SURVEY TECHNOLOGY TO CAPTURE EXISTING FEATURES

RECORD DRAWING P.D. No. 91-16

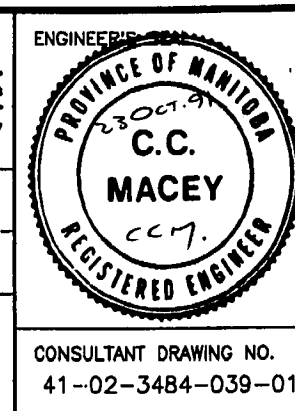
NO.	REVISIONS	DATE	BY
B	REV TO RECORD DWG/REPLOTTED	18Oct91	BC
A	REVISED BARRICADE/REPLOTTED	22Jan91	DML

uma Engineering Ltd.
1479 Buffalo Place, Winnipeg, Manitoba, Canada R3T 1L7

DESIGNED BY: CCM
CHECKED BY: [Signature]
DRAWN BY: DML
APPROVED BY: [Signature]

HOR. SCALE: AS NOTED
VERTICAL: -

RELEASED FOR CONSTRUCTION
DATE: 01/23/91



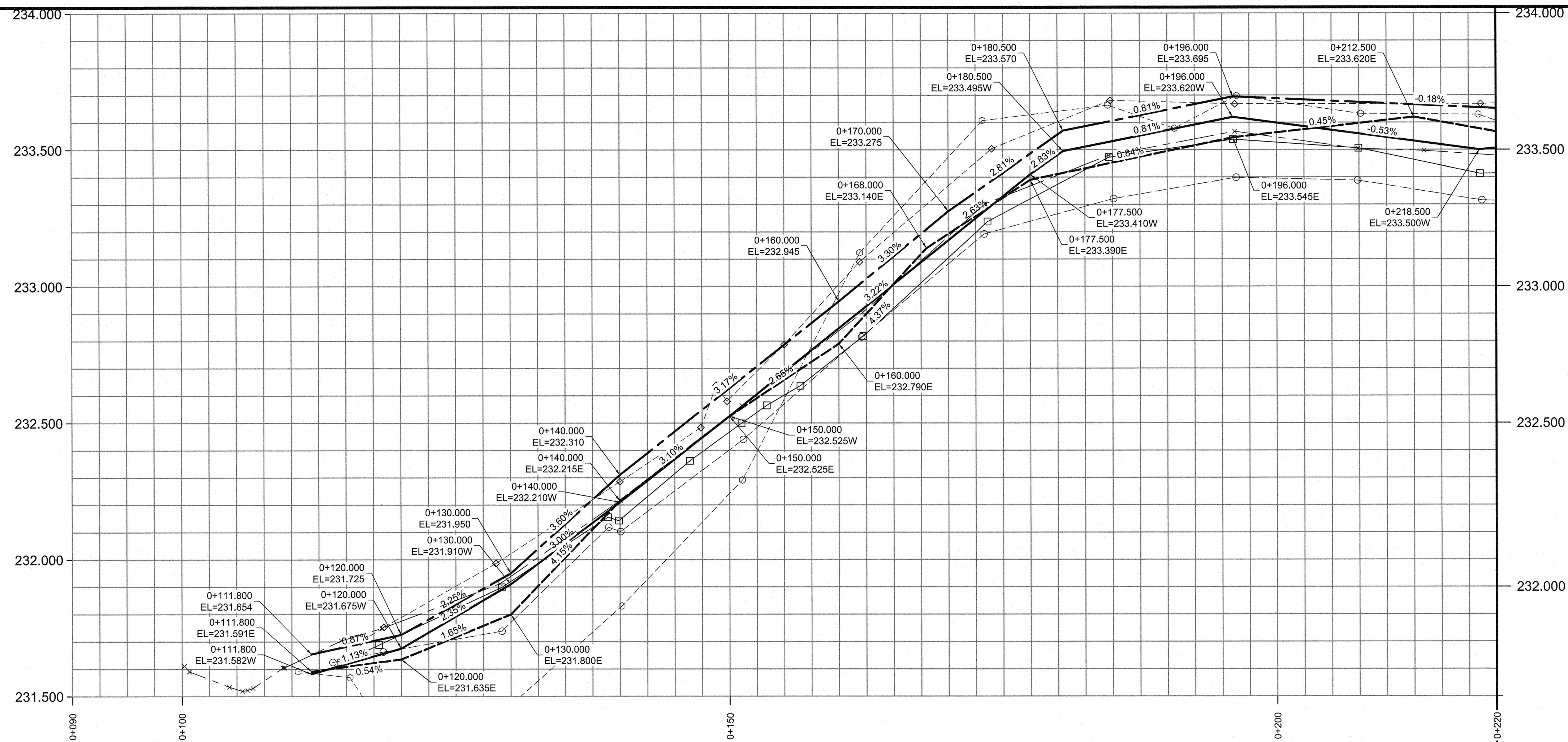
THE CITY OF WINNIPEG
WORKS AND OPERATIONS DIVISION
OPERATIONS DEPARTMENT - DISTRICT 1

TYLEHURST STREET OUTFALL

CROSS-SECTIONS AND DETAILS

CITY DRAWING NUMBER: LD-612
SHEET 2 OF 2

REV. 02 B



MATERIALS LIST (SURFACE WORKS)	
TYPE	MANUFACTURER
CONCRETE	BUILDING PRODUCTS
ASPHALT	ASPHALTEC
LIMESTONE 20mm & 50mm DOWN	INLAND
GLASS GRID	GLASGRID PAVEMENT REINFORCEMENT SYSTEMS

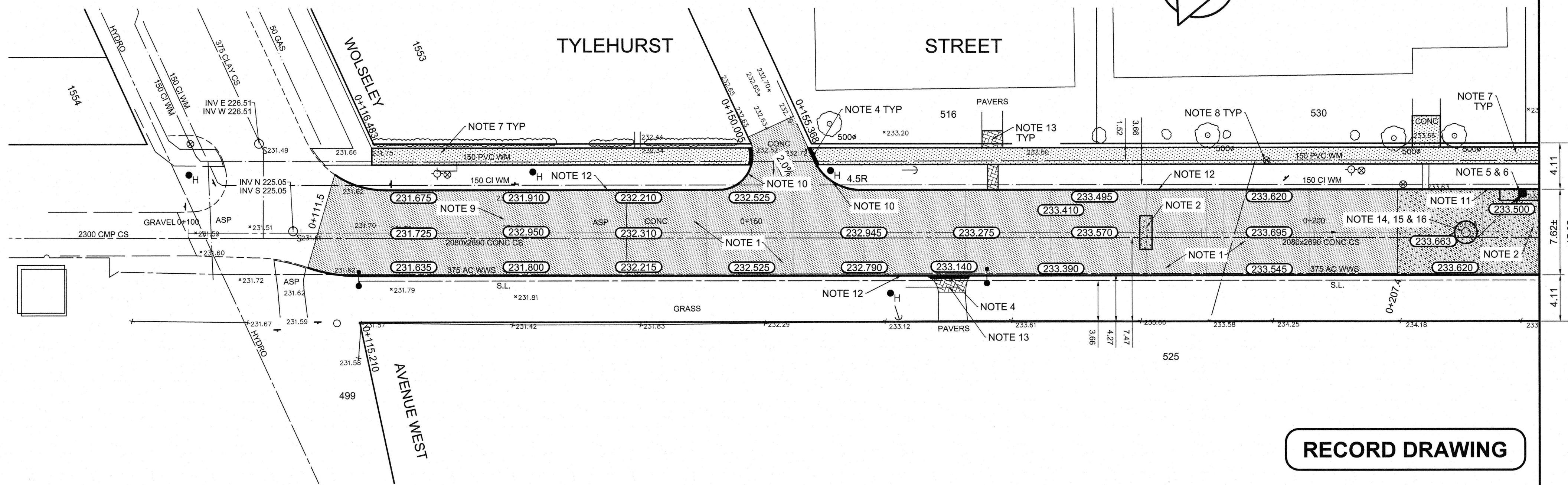
MATERIALS LIST (UNDERGROUND)	
TYPE	MANUFACTURER
PVC LDS PIPE	ROYAL
TEES & BENDS	PLASTIC TRENDS
COUPLINGS	MISSION
FRAMES, COVERS & RISERS	TITAN
CATCH BASINS	LAFARGE

REFERENCE NOTES

- A. PAVEMENT DIMENSIONS ARE TO BACK OF CURB
- B. BASELINE IS CENTRE LINE RIGHT-OF-WAY
- C. PROPERTY LINES OBTAINED FROM CITY OF WINNIPEG L.B.I.S., AND NO SCALE FACTOR WAS APPLIED
- D. REFER TO AECOM FIELD BOOK NO. 4930

CONSTRUCTION NOTES

1. PLACED NEW ASPHALTIC PAVEMENT TYPE 1A (AVG THICKNESS 85mm)
2. REMOVED EXISTING CONCRETE PAVEMENT AND CONSTRUCTED NEW 150mm REINFORCED CONCRETE PAVEMENT c/w 50mm ASPHALT OVERLAY
3. REMOVED EXISTING CONCRETE PAVEMENT AND CONSTRUCTED NEW 150mm REINFORCED CONCRETE PAVEMENT
4. CONSTRUCTED RAMP CURB (10mm HT. INTEGRAL)
5. REMOVED EXISTING CATCH BASIN
6. INSTALLED NEW CURB AND GUTTER INLET c/w CATCH BASIN (SD-024) AND CONNECTED NEW LEAD TO EXISTING LEAD
7. RENEWED EXISTING 100mm CONCRETE SIDEWALK
8. ADJUSTED EXISTING WATER VALVE TO GRADE
9. PLANED EXISTING ASPHALTIC PAVEMENT
10. REMOVED EXISTING BARRIER CURB AND CONSTRUCTED MODIFIED BARRIER CURB (100mm HT. DOWELLED)
11. CONSTRUCTED NEW BARRIER CURB (100mm HT. SEPARATE)
12. CONSTRUCTED NEW BARRIER CURB (100mm HT. DOWELLED)
13. ADJUSTED EXISTING PAVING STONES
14. ADJUSTED EXISTING CATCHBASIN/MANHOLE TO GRADE
15. REMOVED EXISTING FRAME AND COVER AND INSTALLED NEW FRAME AND SOLID COVER
16. INSTALLED NEW CAST IRON RISER RING



RECORD DRAWING

AECOM
 Certificate of Authorization
 AECOM Canada Ltd.
 No. 4671 Date: Feb 14/17

METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PROFILE	PROPOSED
	WATERMAIN			HYDRO M.T.S.			C PROFILE	
	VALVE			CONCRETE			OUTSIDE GUTTER	
	LAND DRAINAGE SEWER			ASPHALT			INSIDE GUTTER	
	WASTEWATER SEWER			PROPERTY LINE			N/W PROPERTY LINE	
	MANHOLE			SURVEY BAR			S/E PROPERTY LINE	
	CATCH BASIN			ELEVATION	(35.750)			
	CATCH PIT			TREE				
	JUNCTIONS			SIDEWALK RAMP				
	CULVERT			CONCRETE SIDEWALK				
	GAS			FENCE				

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE DATE

NOTE:
 LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M. 37 - 007 SE c/nr Portage & Tylehurst. Brass cap in pile. 2.35m N of chainlink fence & 0.7m E of same fence (produced from S) of St James Anglican Cemetery

NO.	REVISIONS	DATE	BY
2	ISSUED FOR RECORD	01/24/17	BC
1	ISSUED FOR CONSTRUCTION	04/13/16	BC
0	ISSUED FOR TENDER	03/16/16	BC
A	ISSUED FOR REVIEW	02/12/16	BC

AECOM

DESIGNED BY: JC/SS CHECKED BY: BC/KWR

DRAWN BY: JC/SS APPROVED BY:

HOR. SCALE: 1:250
 VERTICAL: 1:10

RELEASED FOR CONSTRUCTION BY:

CONSULTANT DRAWING NO. AT-06

ENGINEER'S SEAL

PROVINCE OF MANITOBA
 K.W. RAE
 REGISTERED PROFESSIONAL ENGINEER

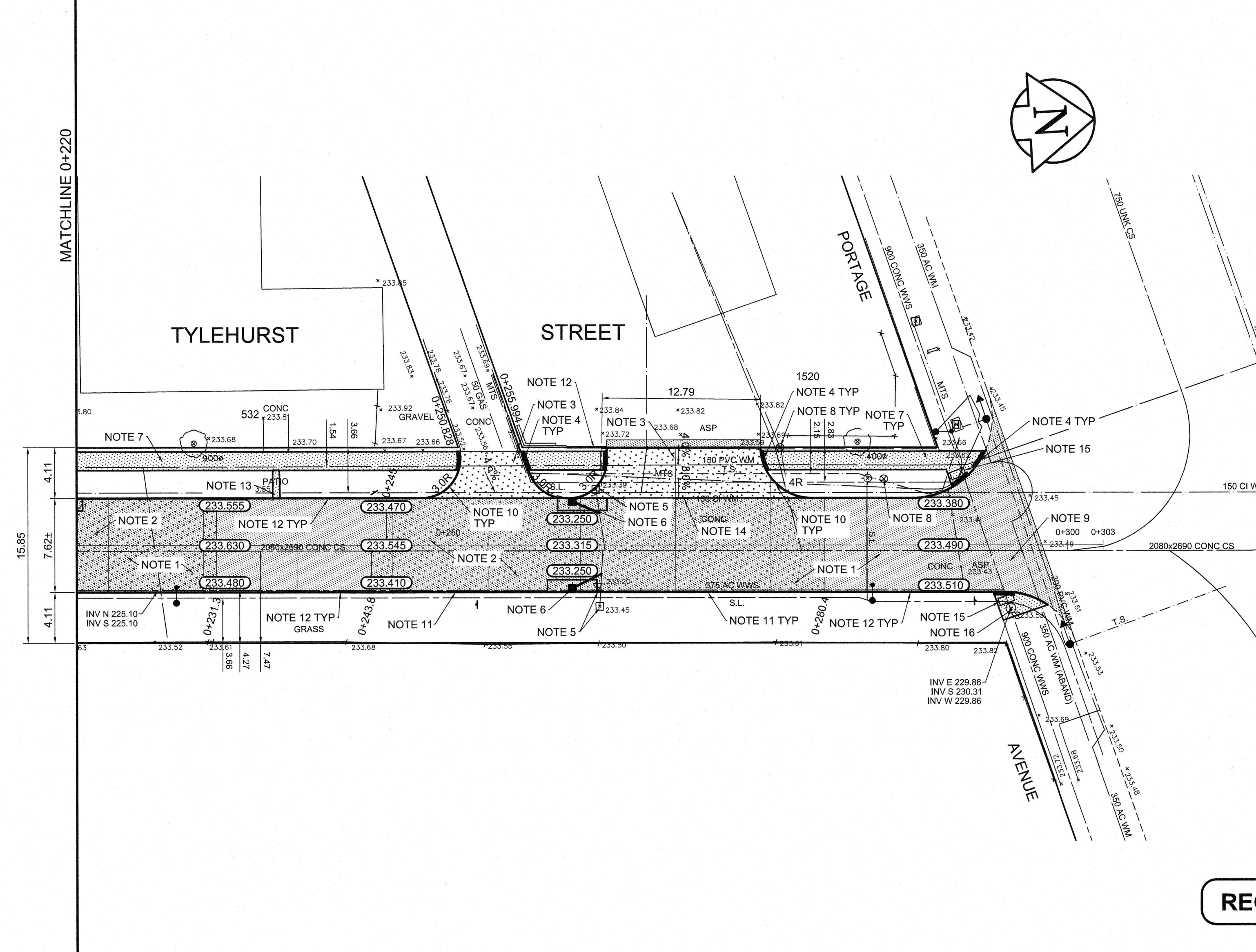
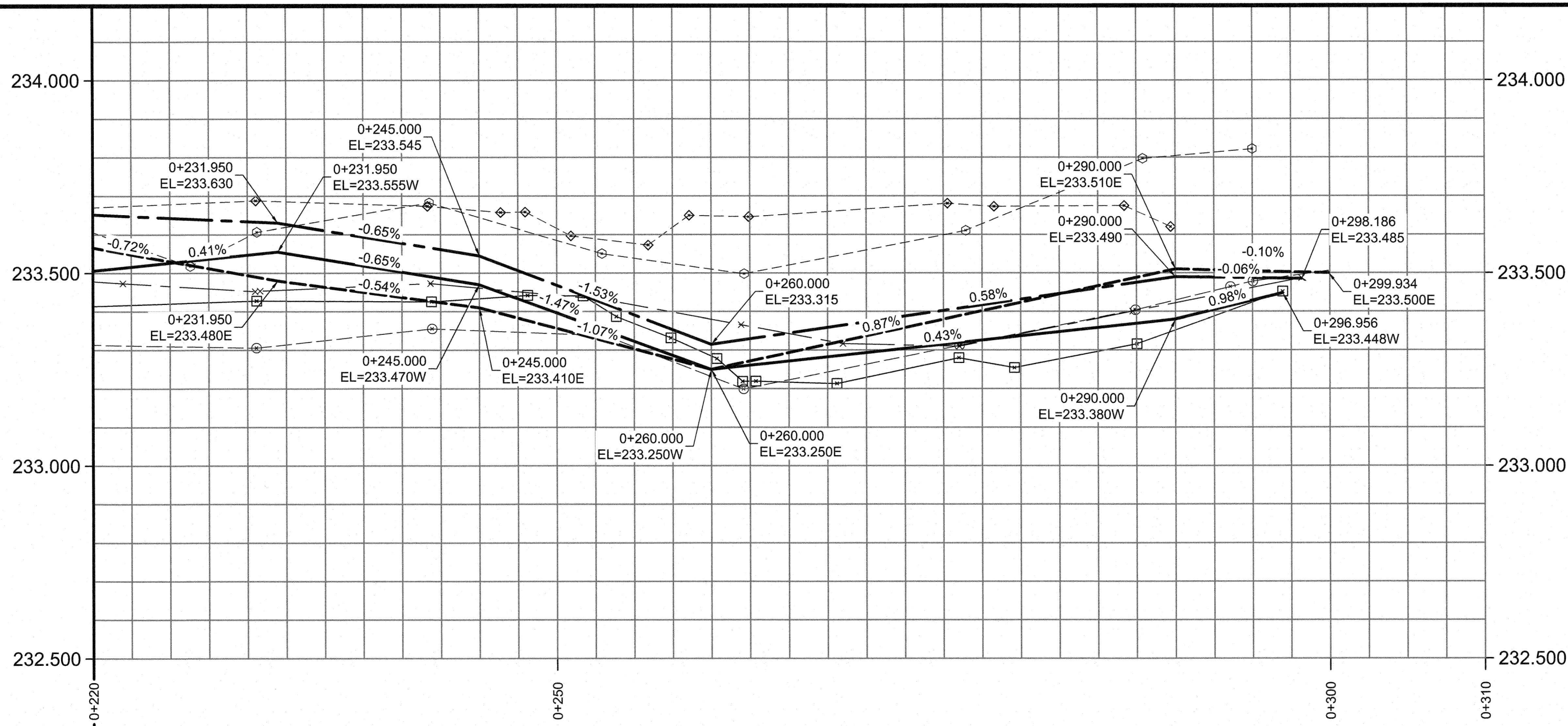
THE CITY OF WINNIPEG
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

2016 LOCAL STREET RENEWAL PROGRAM

TYLEHURST STREET - WOLSELEY AVE WEST TO PORTAGE AVE
 REHABILITATION
 WOLSELEY AVENUE WEST TO STATION 0+220

CITY DRAWING NUMBER
 SHEET 06 OF 19

LD-10425



MATERIALS LIST (SURFACE WORKS)	
TYPE	MANUFACTURER
CONCRETE	BUILDING PRODUCTS
ASPHALT	ASPHALTEC
LIMESTONE 20mm & 50mm DOWN	INLAND
GLASS GRID	GLASGRID PAVEMENT REINFORCEMENT SYSTEMS

MATERIALS LIST (UNDERGROUND)	
TYPE	MANUFACTURER
PVC LDS PIPE	ROYAL
TEES & BENDS	PLASTIC TRENDS
COUPLINGS	MISSION
FRAMES, COVERS & RISERS	TITAN
CATCH BASINS	LAFARGE

REFERENCE NOTES

- A. PAVEMENT DIMENSIONS ARE TO BACK OF CURB
- B. BASELINE IS CENTRE LINE RIGHT-OF-WAY
- C. PROPERTY LINES OBTAINED FROM CITY OF WINNIPEG L.B.I.S., AND NO SCALE FACTOR WAS APPLIED
- D. REFER TO AECOM FIELD BOOK NO. 4930

CONSTRUCTION NOTES

1. PLACED NEW ASPHALTIC PAVEMENT TYPE 1A (AVG. THICKNESS 85mm)
2. REMOVED EXISTING CONCRETE PAVEMENT AND CONSTRUCTED NEW 150mm REINFORCED CONCRETE PAVEMENT c/w 85mm ASPHALT OVERLAY
3. REMOVED EXISTING CONCRETE PAVEMENT AND CONSTRUCTED NEW 150mm REINFORCED CONCRETE PAVEMENT
4. CONSTRUCTED RAMP CURB (10mm HT. INTEGRAL)
5. REMOVED EXISTING CATCH BASIN
6. INSTALLED NEW CURB AND GUTTER INLET c/w CATCH BASIN (SD-024) AND CONNECTED NEW LEAD TO EXISTING LEAD
7. RENEWED EXISTING 100mm CONCRETE SIDEWALK
8. ADJUSTED EXISTING WATER VALVE TO GRADE
9. PLANNED EXISTING ASPHALTIC PAVEMENT
10. CONSTRUCTED NEW MODIFIED BARRIER CURB (100mm HT. SEPARATE)
11. CONSTRUCTED NEW BARRIER CURB (100mm HT. SEPARATE)
12. CONSTRUCTED NEW BARRIER CURB (100mm HT. DOWELLED)
13. ADJUSTED EXISTING PATIO BLOCKS
14. CONSTRUCTED NEW LIP CURB (40mm HT. INTEGRAL)
15. INSTALLED DETECTABLE SURFACE WARNING TILE
16. ADJUSTED EXISTING MANHOLE/CATCH BASIN FRAME TO GRADE



METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

RECORD DRAWING

EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PROFILE	PROPOSED
	WATERMAIN			HYDRO M.T.S.			C PROFILE	
	VALVE			CONCRETE			OUTSIDE GUTTER	
	ASPHALT			INSIDE GUTTER			N/W PROPERTY LINE	
	PROPERTY LINE			S/E PROPERTY LINE				
	SURVEY BAR			ELEVATION				
	TREE			SIDEWALK RAMP				
	CONCRETE SIDEWALK			FENCE				

LOCATION APPROVED	UNDERGROUND STRUCTURES	DATE
SUPV. U/G STRUCTURES COMMITTEE		

NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

NO.	REVISIONS	DATE	BY	DATE
2	ISSUED FOR RECORD	01/24/17	BC	
1	ISSUED FOR CONSTRUCTION	04/13/16	BC	
0	ISSUED FOR TENDER	03/16/16	BC	
A	ISSUED FOR REVIEW	02/12/16	BC	

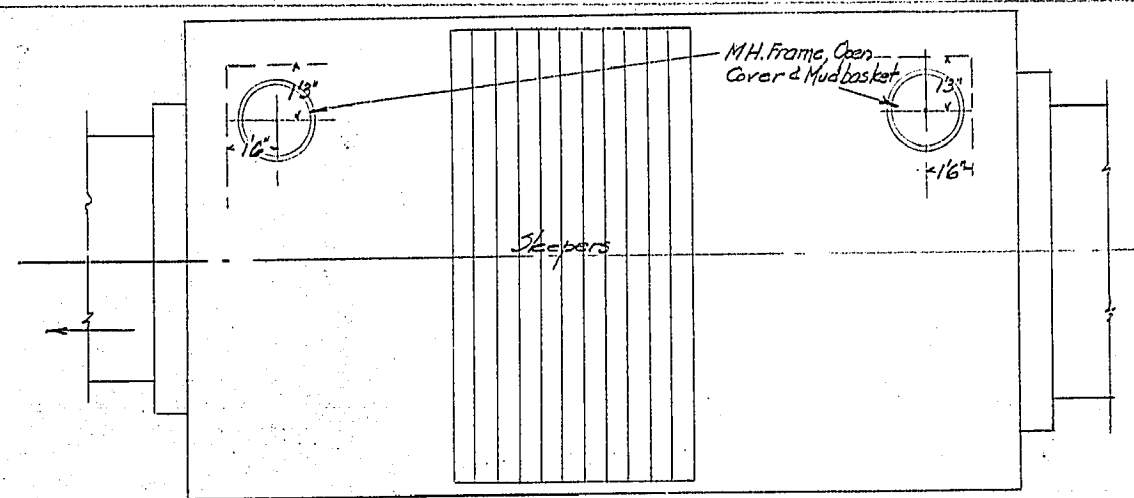
DESIGNED BY	JC/SS	CHECKED BY	BC/KWR
DRAWN BY	JC/SS	APPROVED BY	

ENGINEER'S SEAL	PROVINCE OF MANITOBA	REGISTERED PROFESSIONAL ENGINEER
	K.W. RAE	

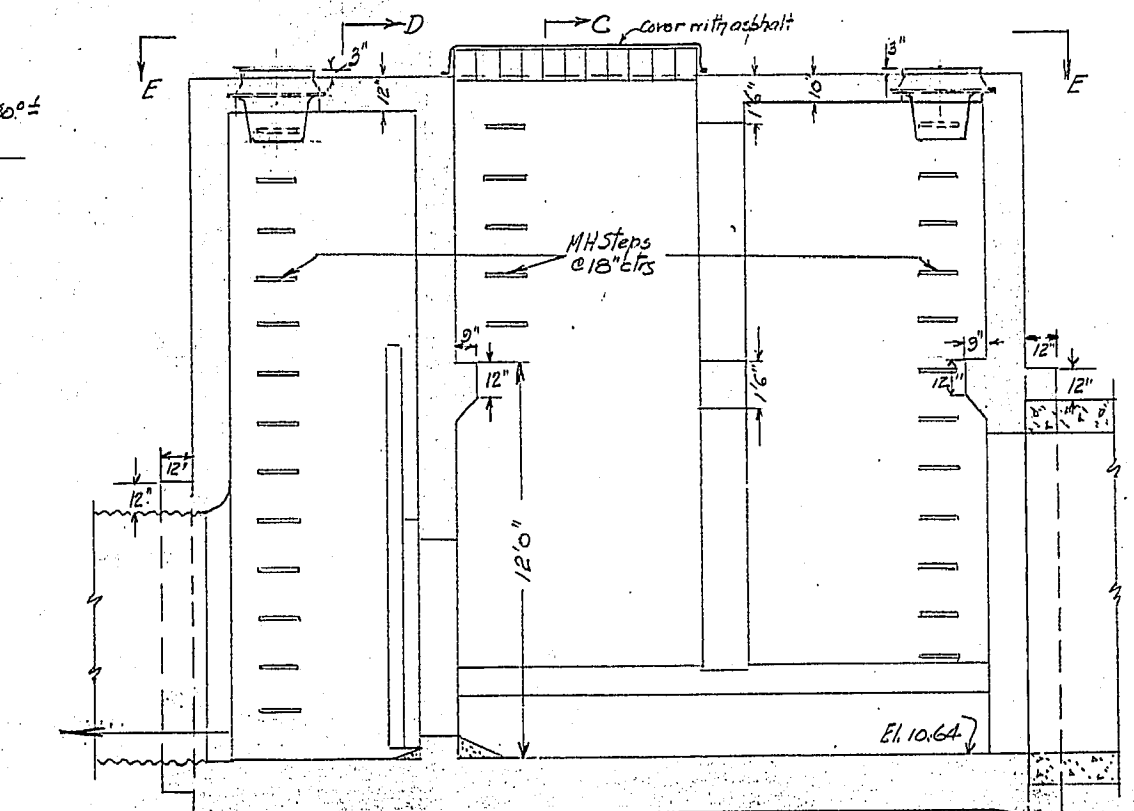
THE CITY OF WINNIPEG	PUBLIC WORKS DEPARTMENT	ENGINEERING DIVISION
2016 LOCAL STREET RENEWAL PROGRAM		
TYLEHURST STREET - WOLSELEY AVENUE WEST TO PORTAGE AVENUE	STATION 0+220 TO PORTAGE AVENUE	

CITY DRAWING NUMBER	SHEET	OF	19
	07		

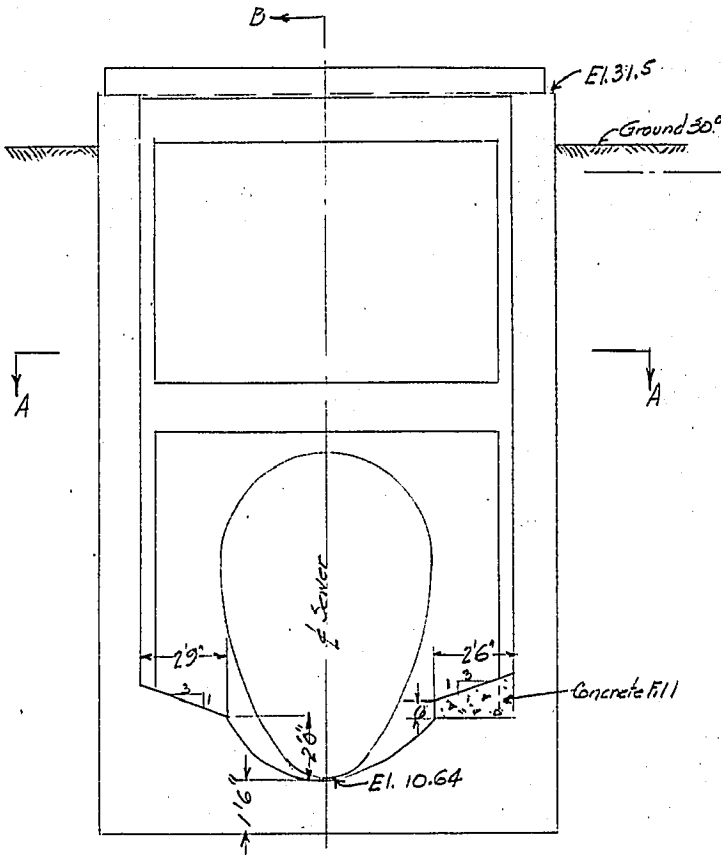
LD-10426



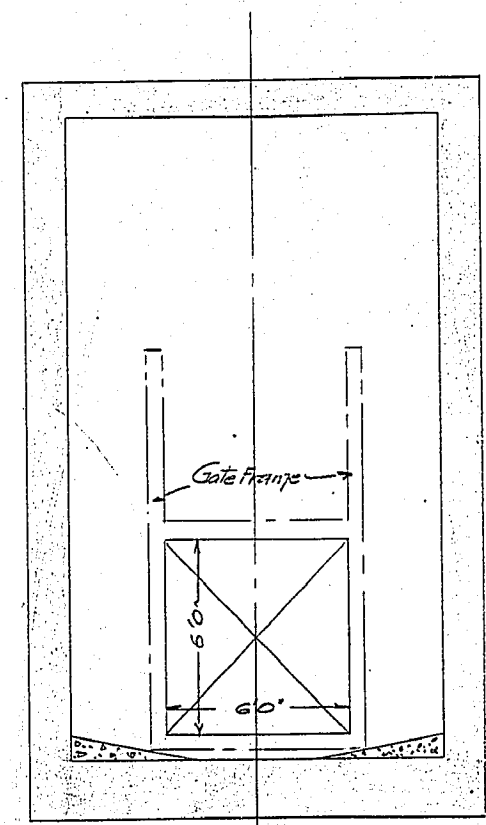
View E.E.



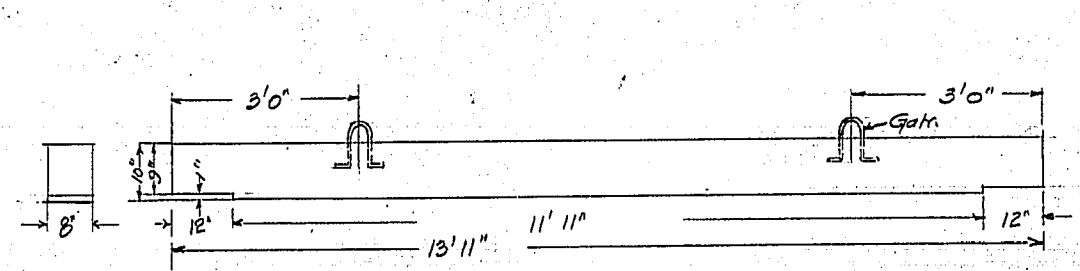
Section B-B



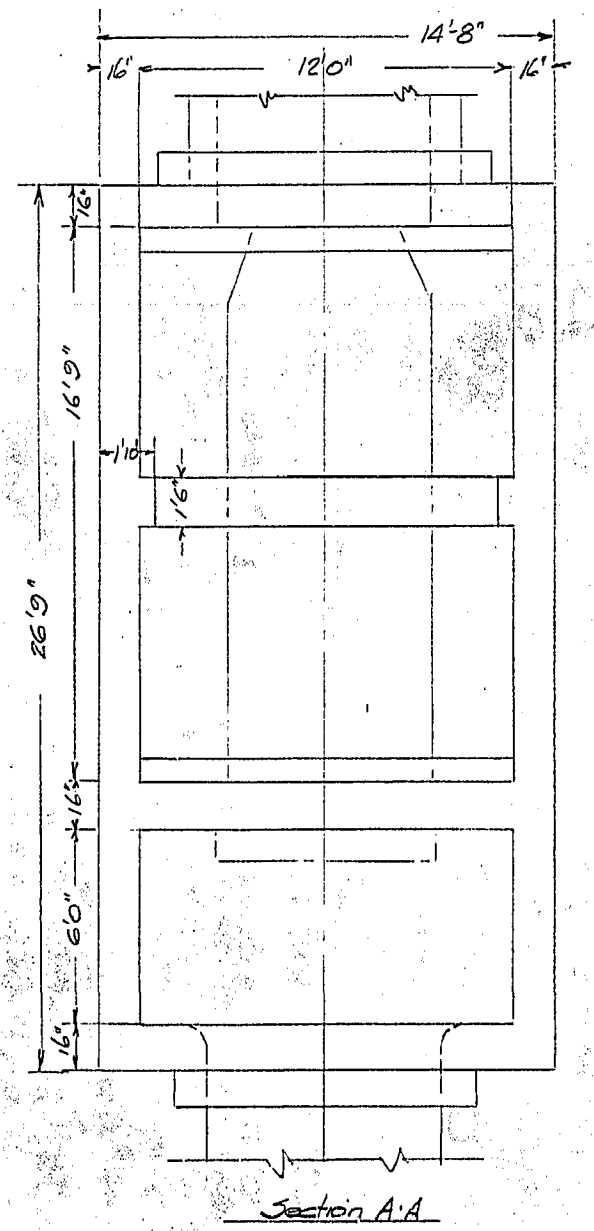
Section C-C



Section D-D

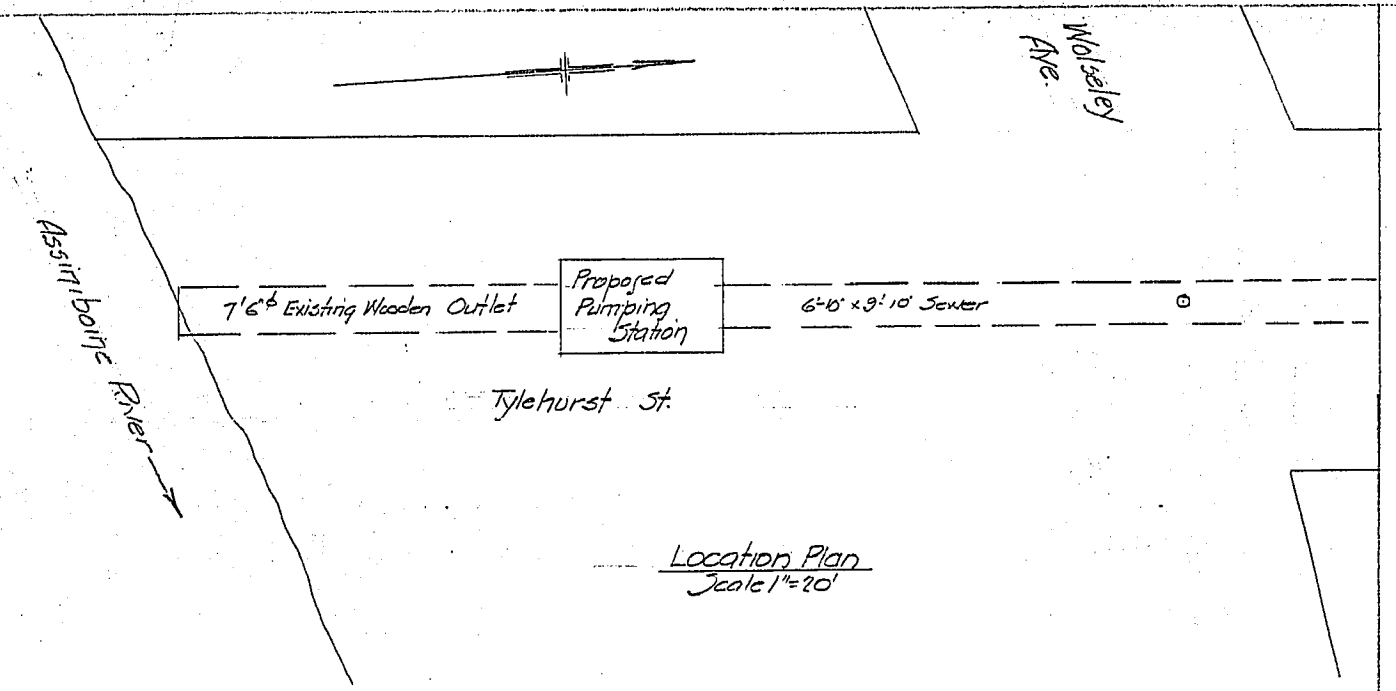


Sleepers:
11 required - Scale 1/2"=1'foot

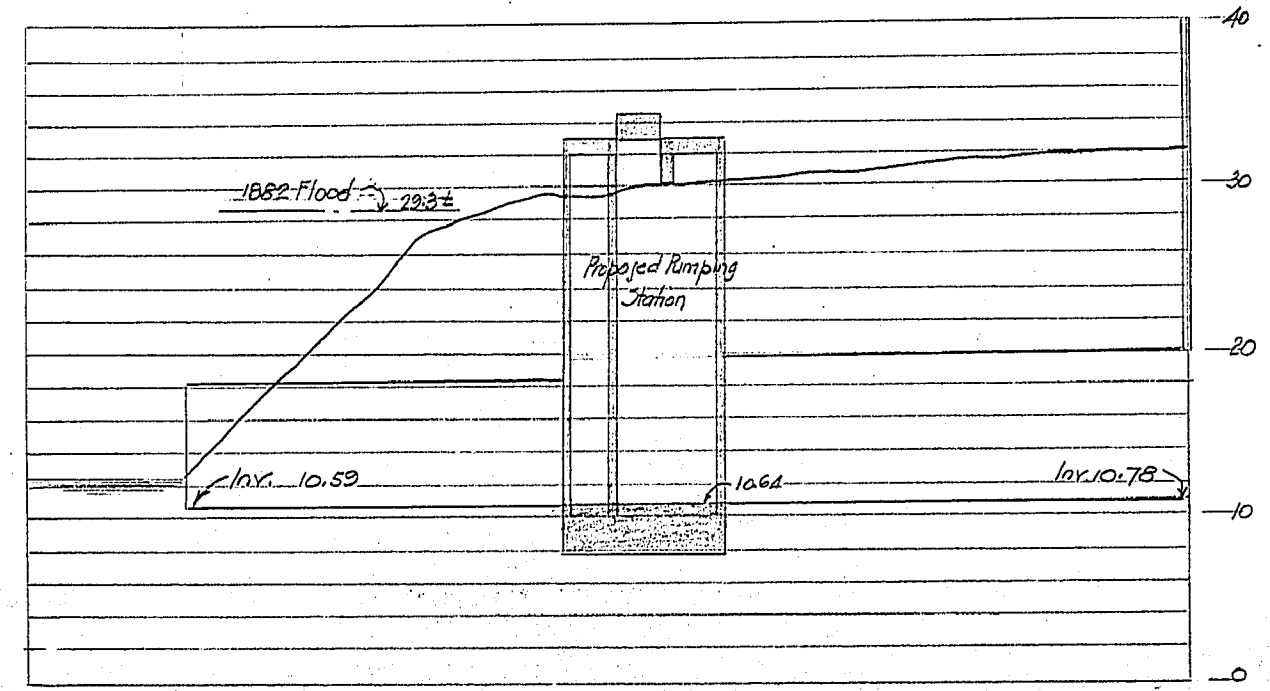


Section A-A

Future pumps 1-25cfs & 1-35cfs



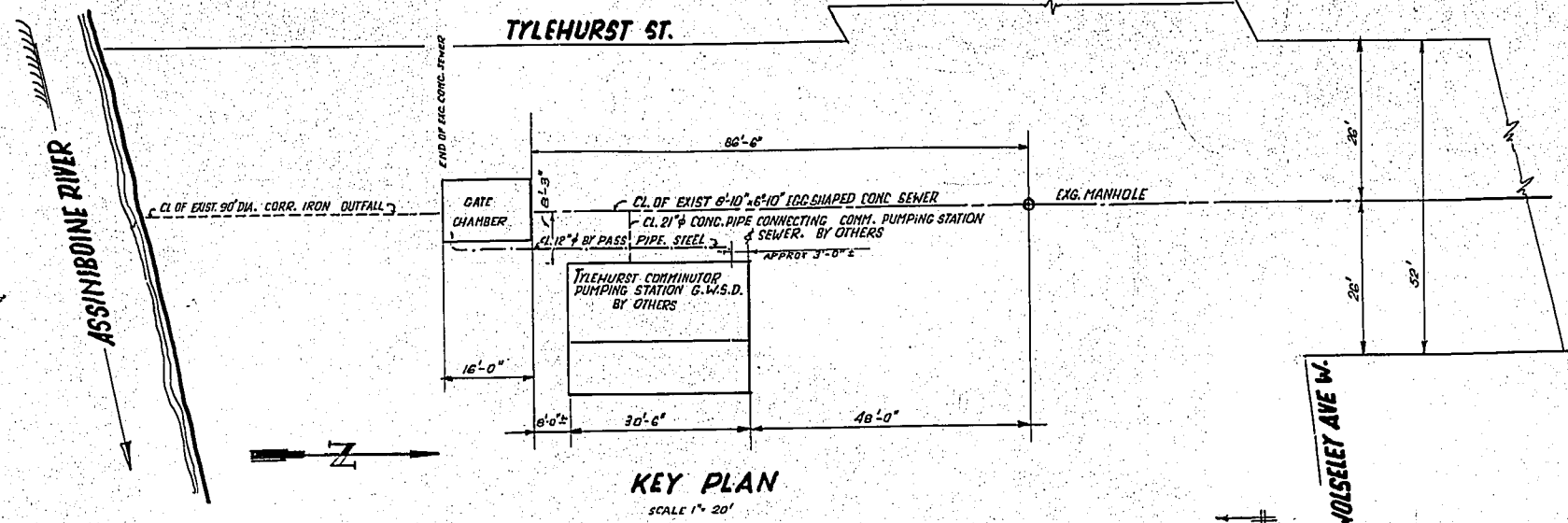
Location Plan
Scale 1"=20'



Profile
Hor. Scale 1"=20'
Ver. Scale 1"=4'

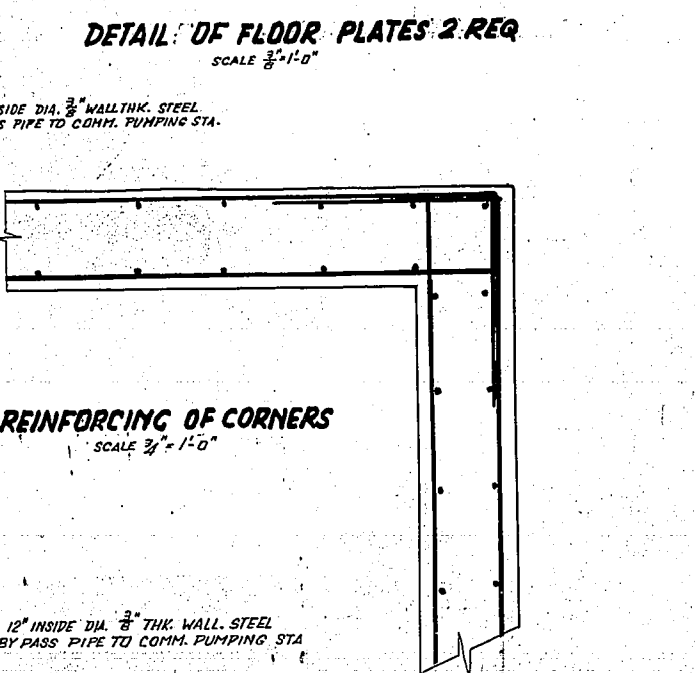
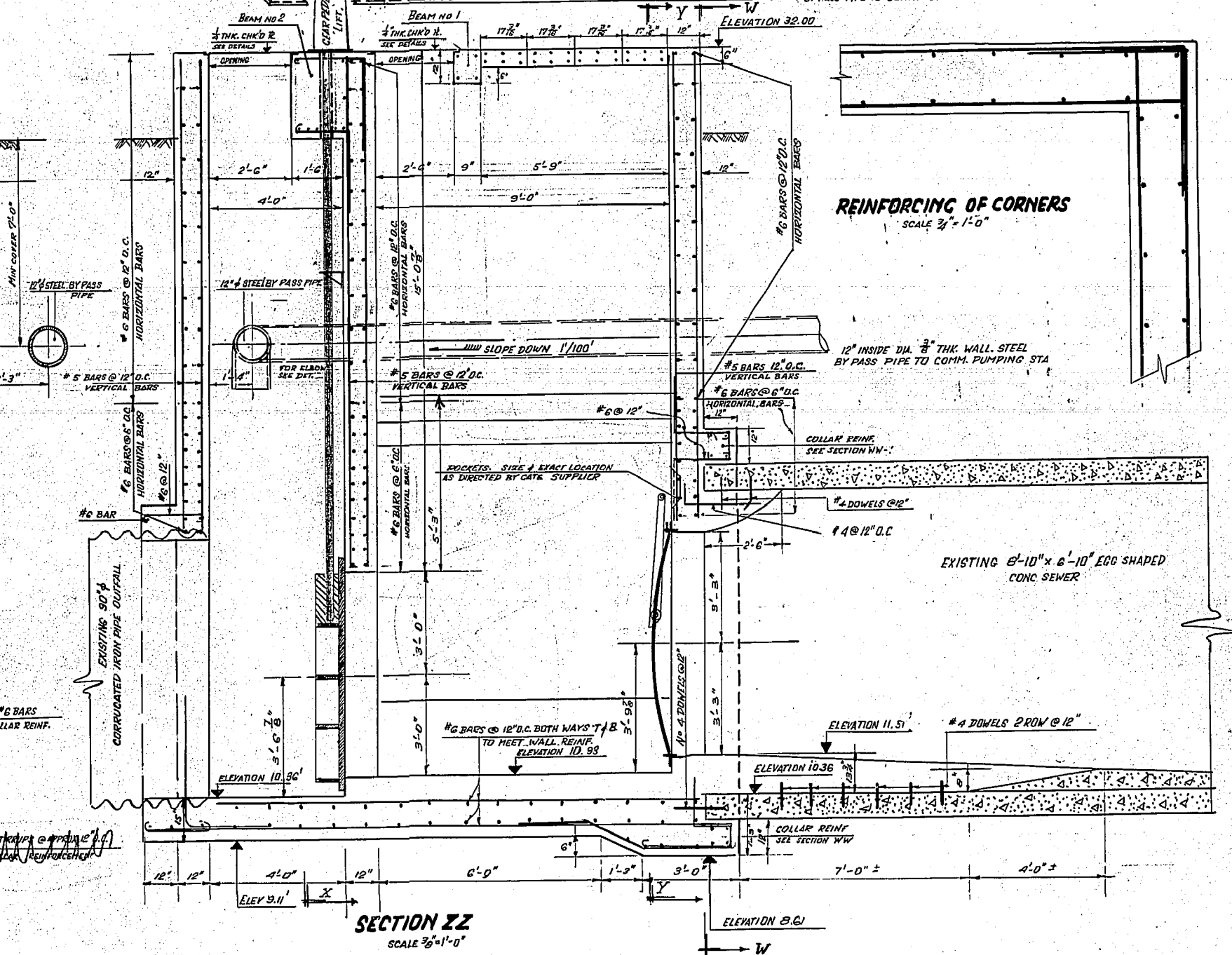
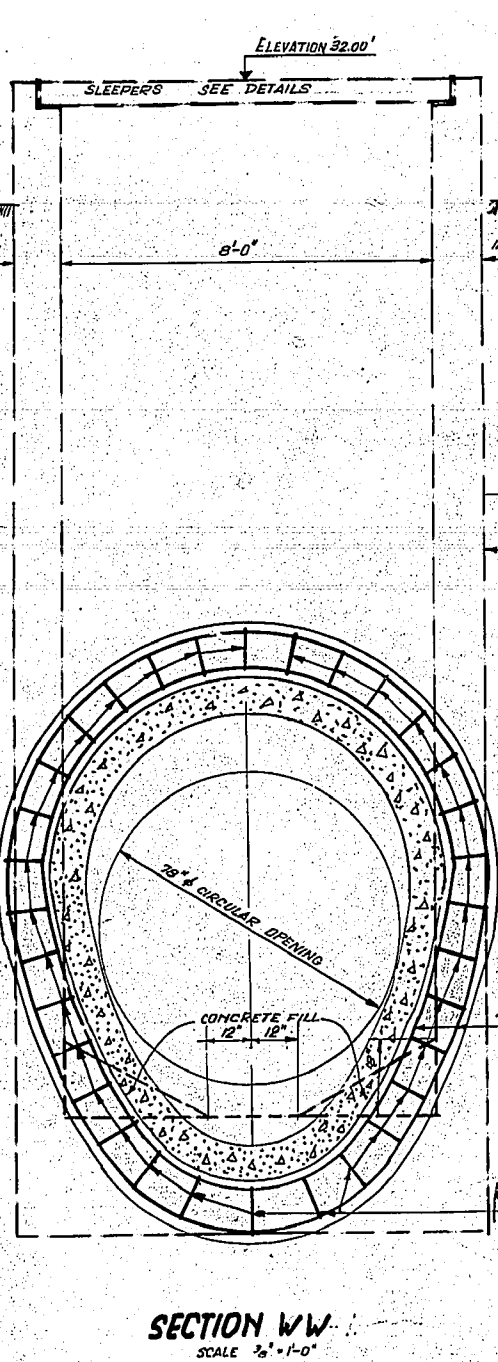
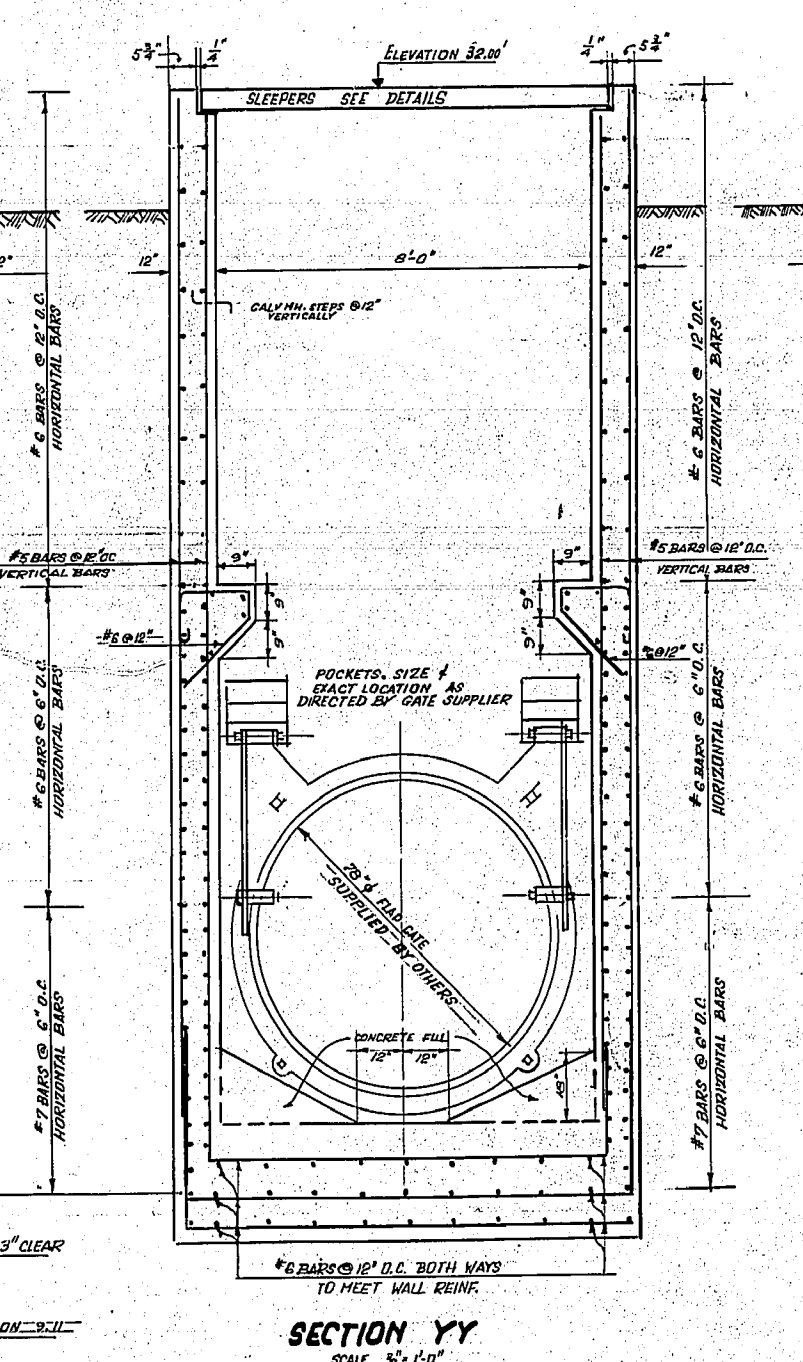
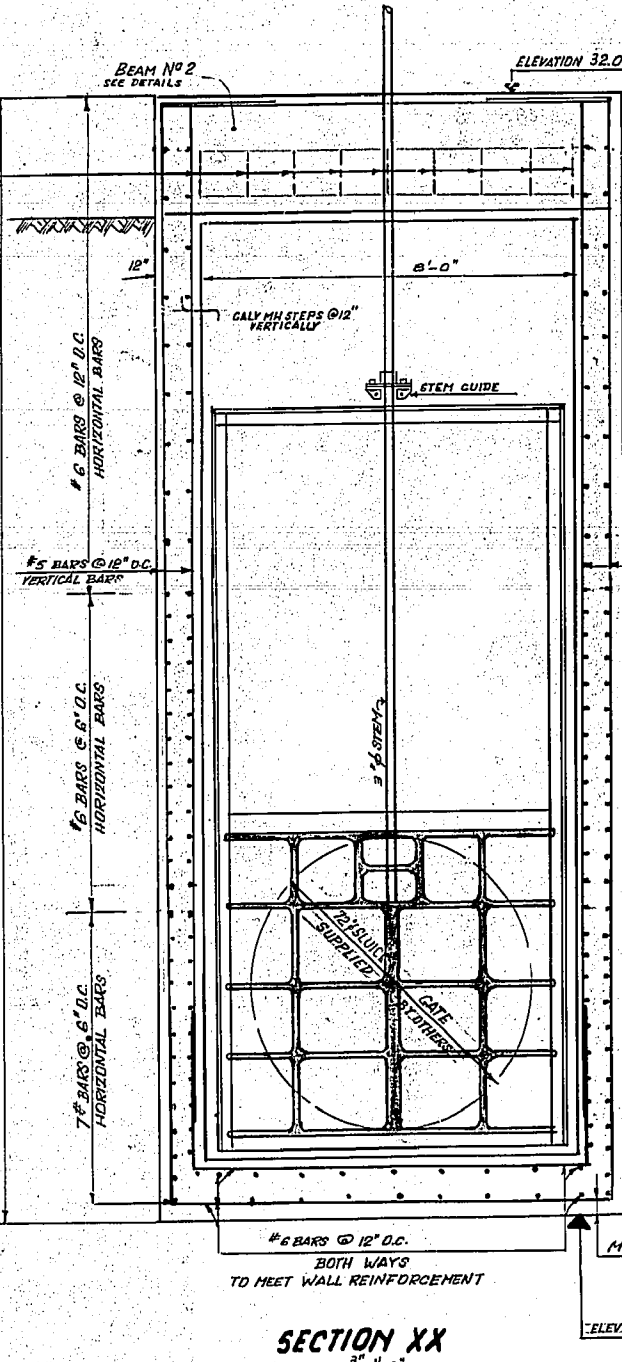
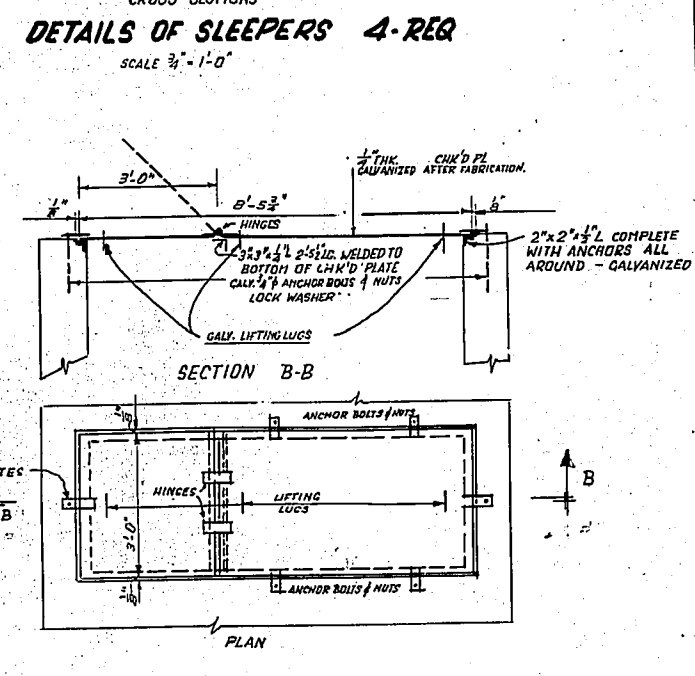
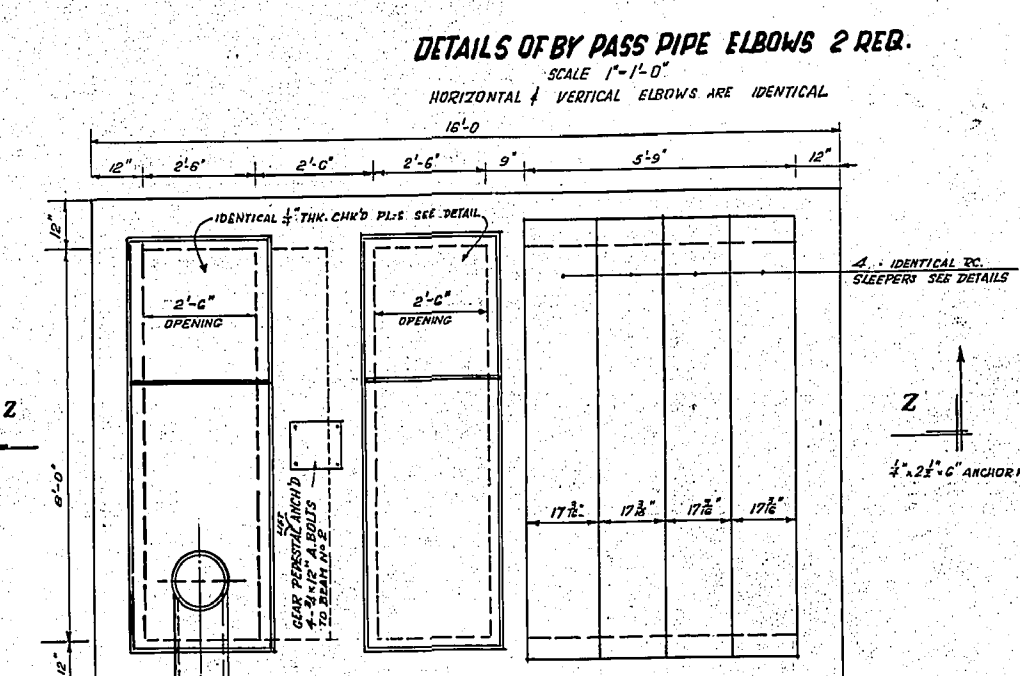
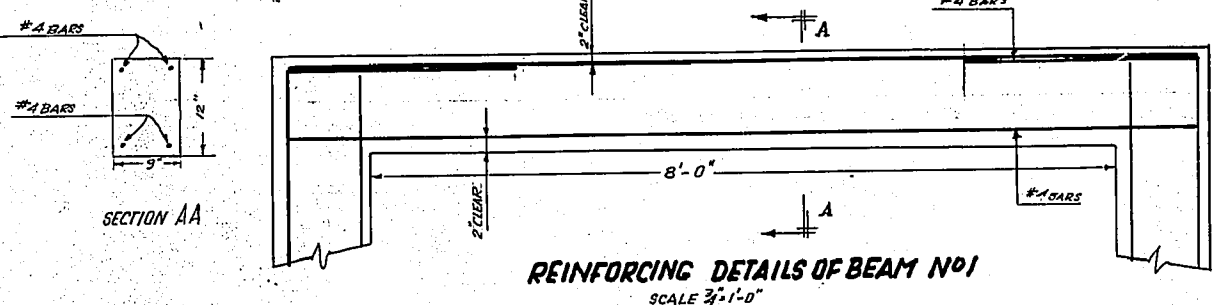
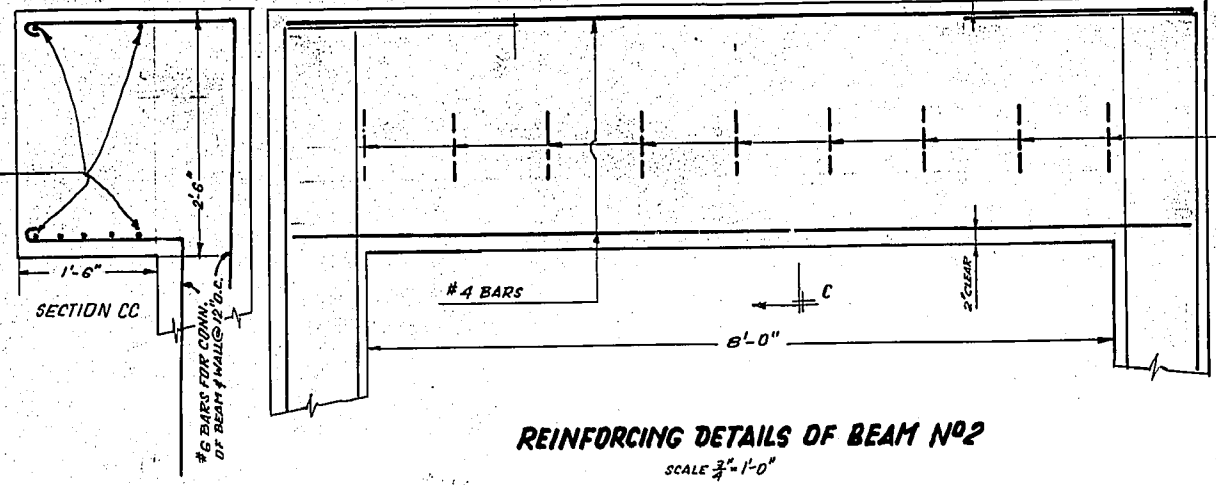
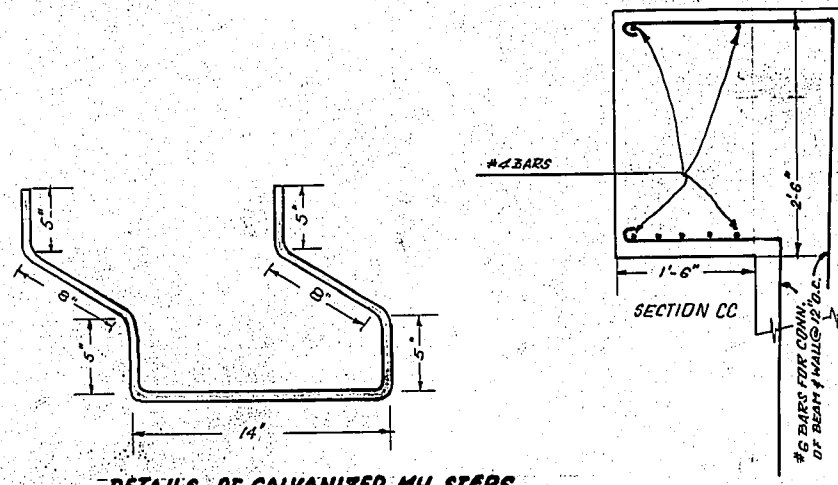
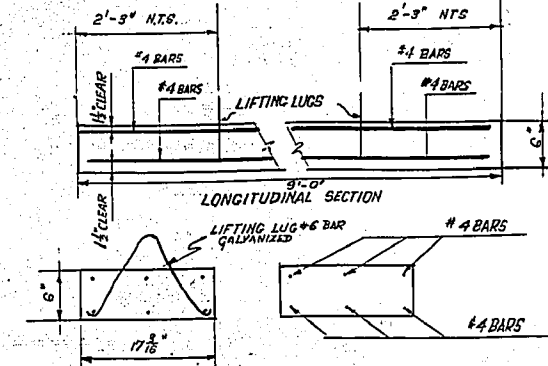
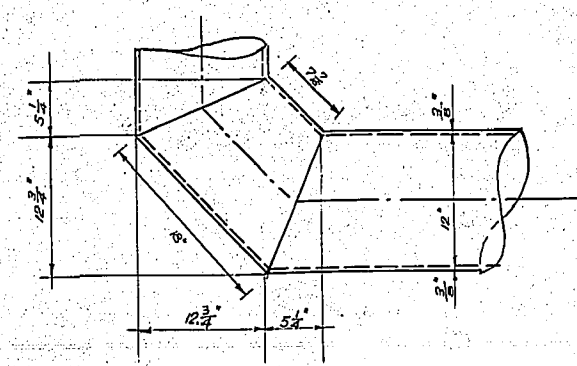
Sheet No. 1000
+ Details
Date
S. M. ...

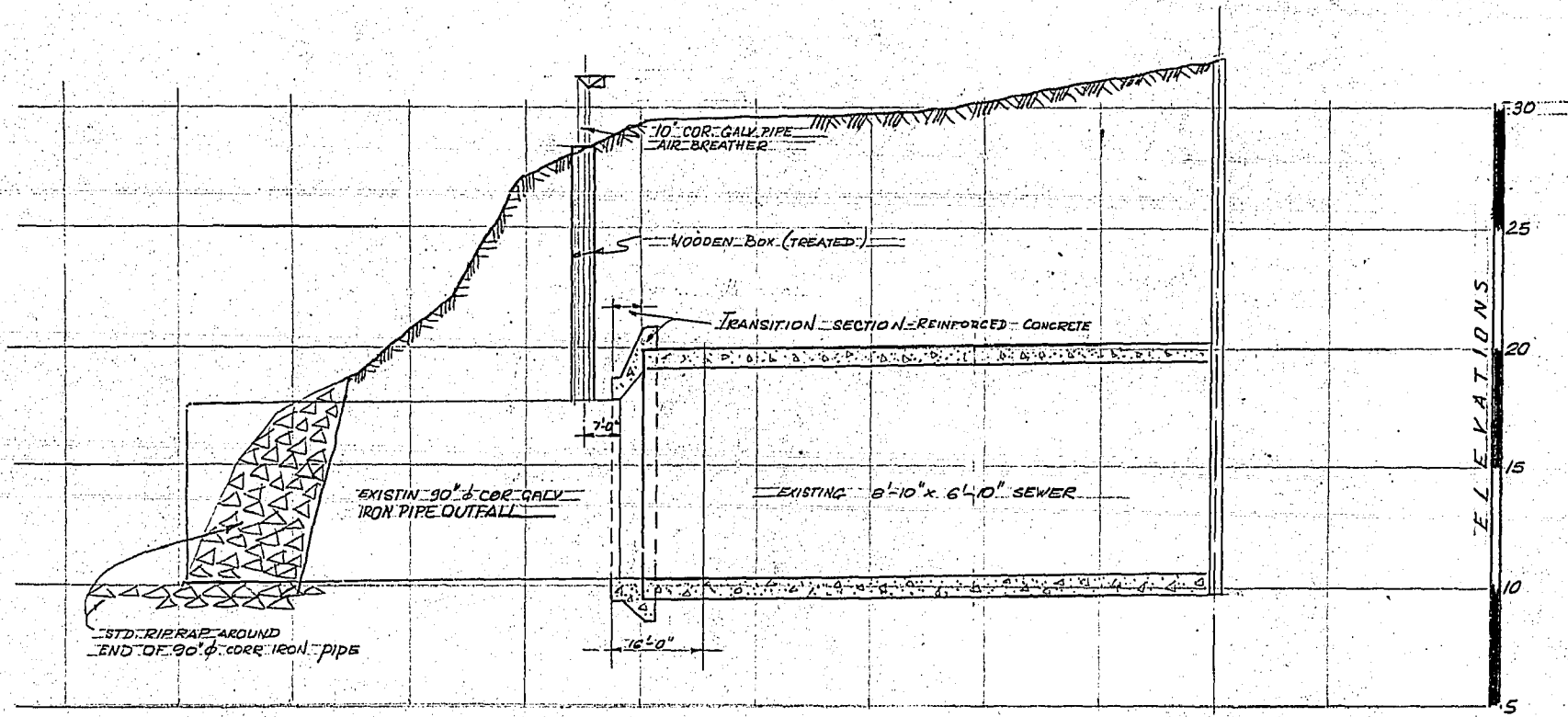
Pumping Station Tylehurst Street	CITY OF WINNIPEG ENGINEERING DEPARTMENT		DRAWN BY:	DATE: Oct 9, 1921	SCALE: 1/4"=1'foot
	S. MURPHY, CITY ENGINEER		CHECKED BY:		
	J. J. ... DEPUTY CITY ENGINEER		APPROVED:		
					687-A



NOTES
 GATES WILL BE SUPPLIED BY OTHERS AND GENERAL CONTRACTOR WILL INSTALL GATES UNDER THE SUPPLIERS SUPERVISION

EXISTING CONCRETE
 CONCRETE





PROFILE SHOWING EXISTING TYLEHURST
SEWER AT OUTFALL. SHADDED PORTION TO
BE REMOVED FOR INSTALLATION OF GATE
CHAMBER.

SCALE: HORIZONTAL 1" = 20'-0"
VERTICAL 1" = 5'-0"

FOR KEY PLAN & CONSTR. DETAILS OF GATE CHAMBER SEE DWG NO R. 216.

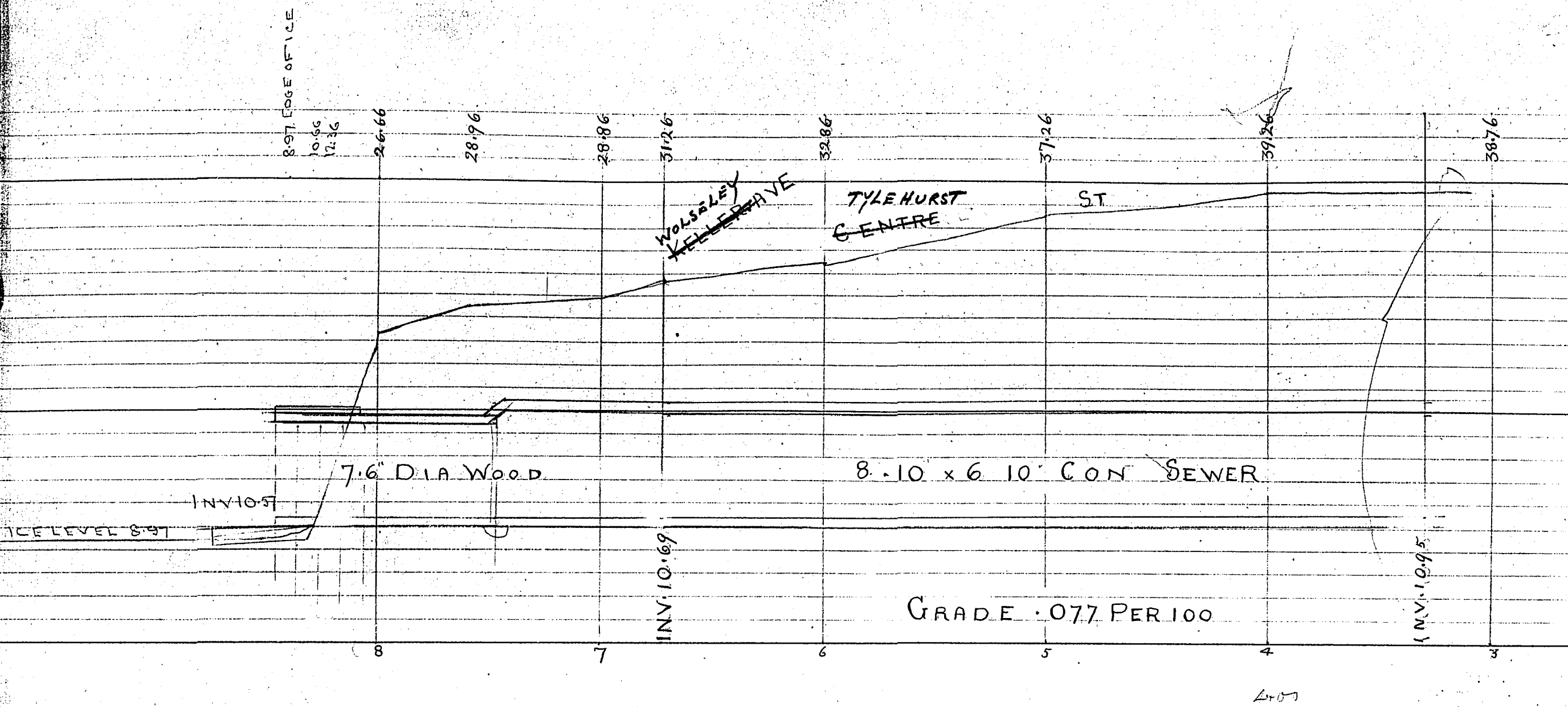
12 Feb 50
Not Used
DWG.

TYLEHURST TRUNK SEWER OUTFALL
SECTION TO BE REMOVED
FOR
GATE CHAMBER

CITY OF WINNIPEG
ENGINEERING DEPARTMENT
W. D. HURST, CITY ENGINEER
J. B. STROWSKI, DEPUTY CITY ENGINEER

DRAWN BY... G.S.T. DATE JAN. 27/50
TRACED BY...
CHECKED BY... J.B.S. 6 Feb. 50
APPROVED BY...

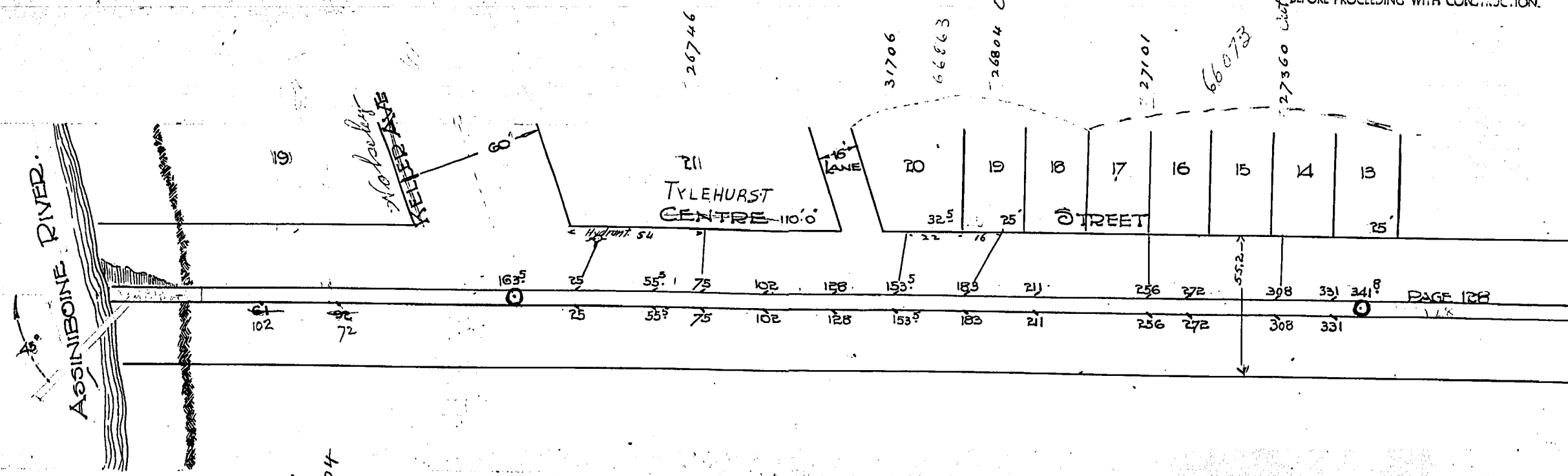
SCALE
AS NOTED
DRAWING NO.
R. 216.-1



LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN AND EXACT LOCATIONS OF ALL UNDERGROUND INCLUDING SERVICE CONNECTIONS MUST BE CHECKED WITH THE UTILITY CONCERNED BEFORE PROCEEDING WITH CONSTRUCTION.

HOR 40' SCALES VER 8" = 1" INCH.

LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN AND EXACT LOCATIONS OF ALL UNDERGROUND INCLUDING SERVICE CONNECTIONS MUST BE CHECKED WITH THE UTILITY CONCERNED BEFORE PROCEEDING WITH CONSTRUCTION.



33604