

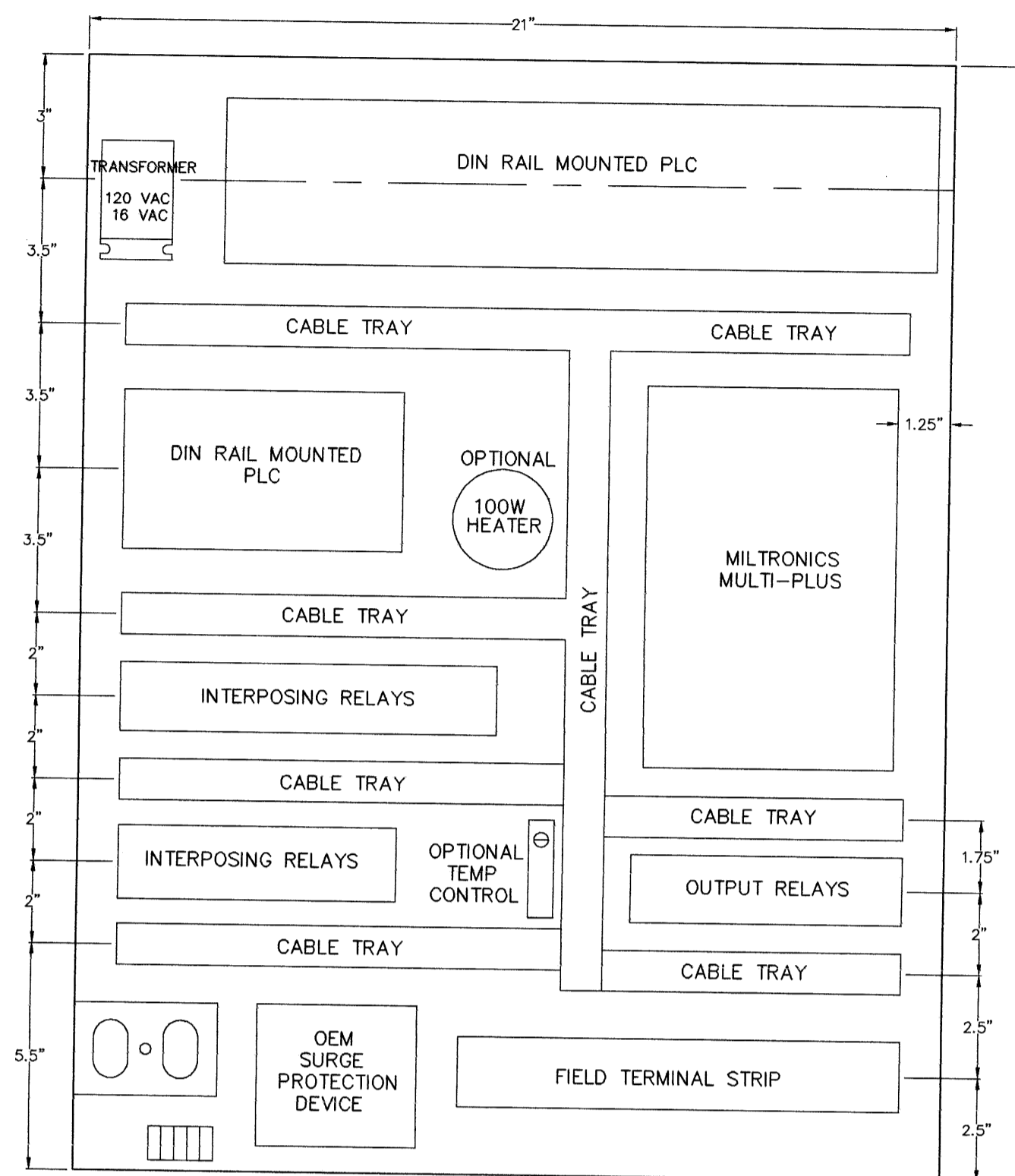
D:\DRAWINGS\LANDDRAN\FLOPUMP\97FSQ3 Mon Jul 07 13:13:11 1997

ALARM WIRING TEMPLATE

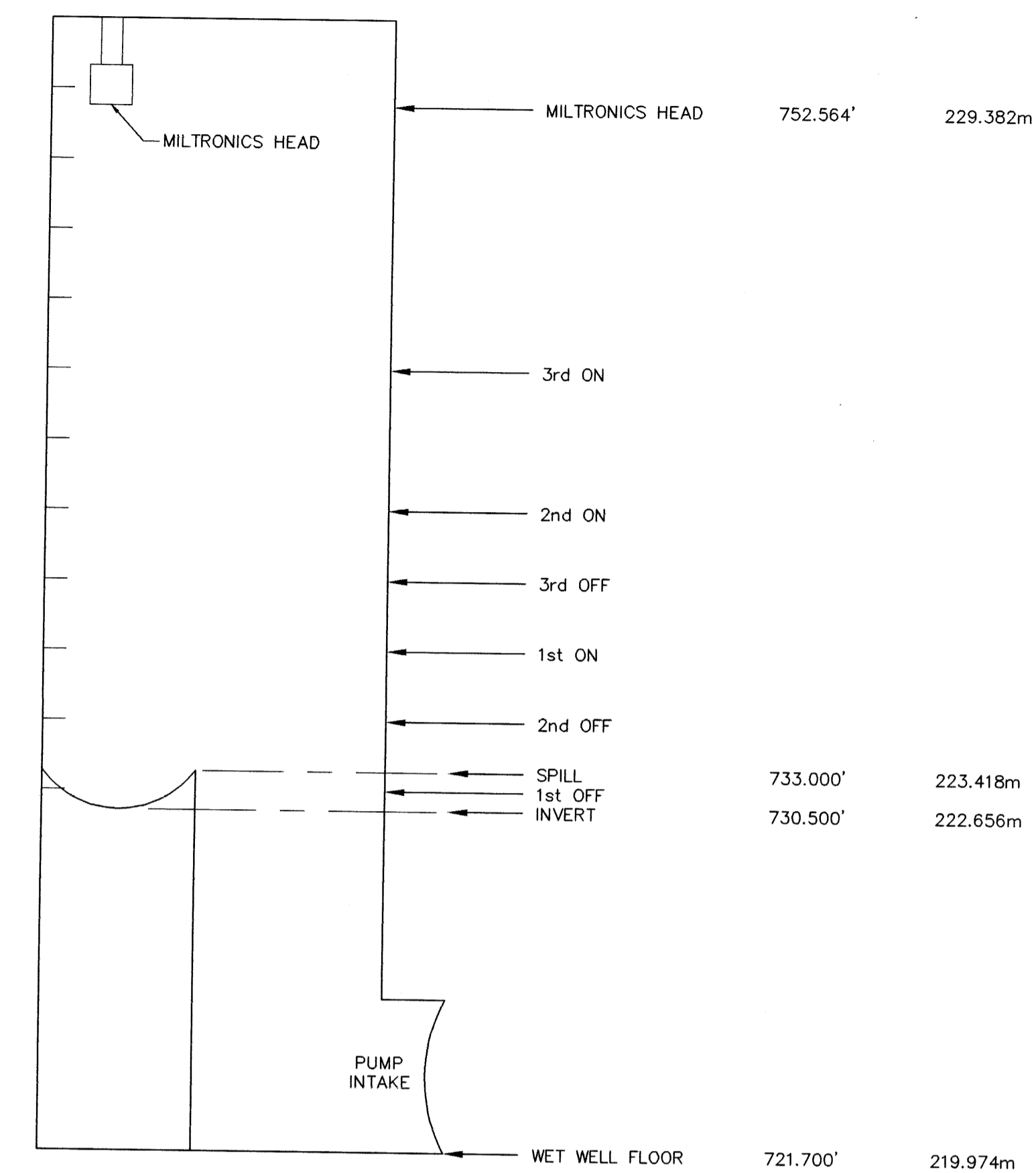
ALARM INPUT	DESCRIPTION	PLC ADDRESS	COLOR
ALARM INPUT 1	LOCKOUT	10001	BLUE
ALARM INPUT 2	OVERFLOW	10002	BLUE/WHITE
ALARM INPUT 3	STATION FLOOD	10003	BLUE/RED
ALARM INPUT 4	LOW INSTR. AIR	10004	BLUE/BLACK
ALARM INPUT 5	LOW TEMP.	10005	RED
ALARM INPUT 6	LOSS OF SEAL WATER	10006	RED/BLACK
ALARM INPUT 7	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.

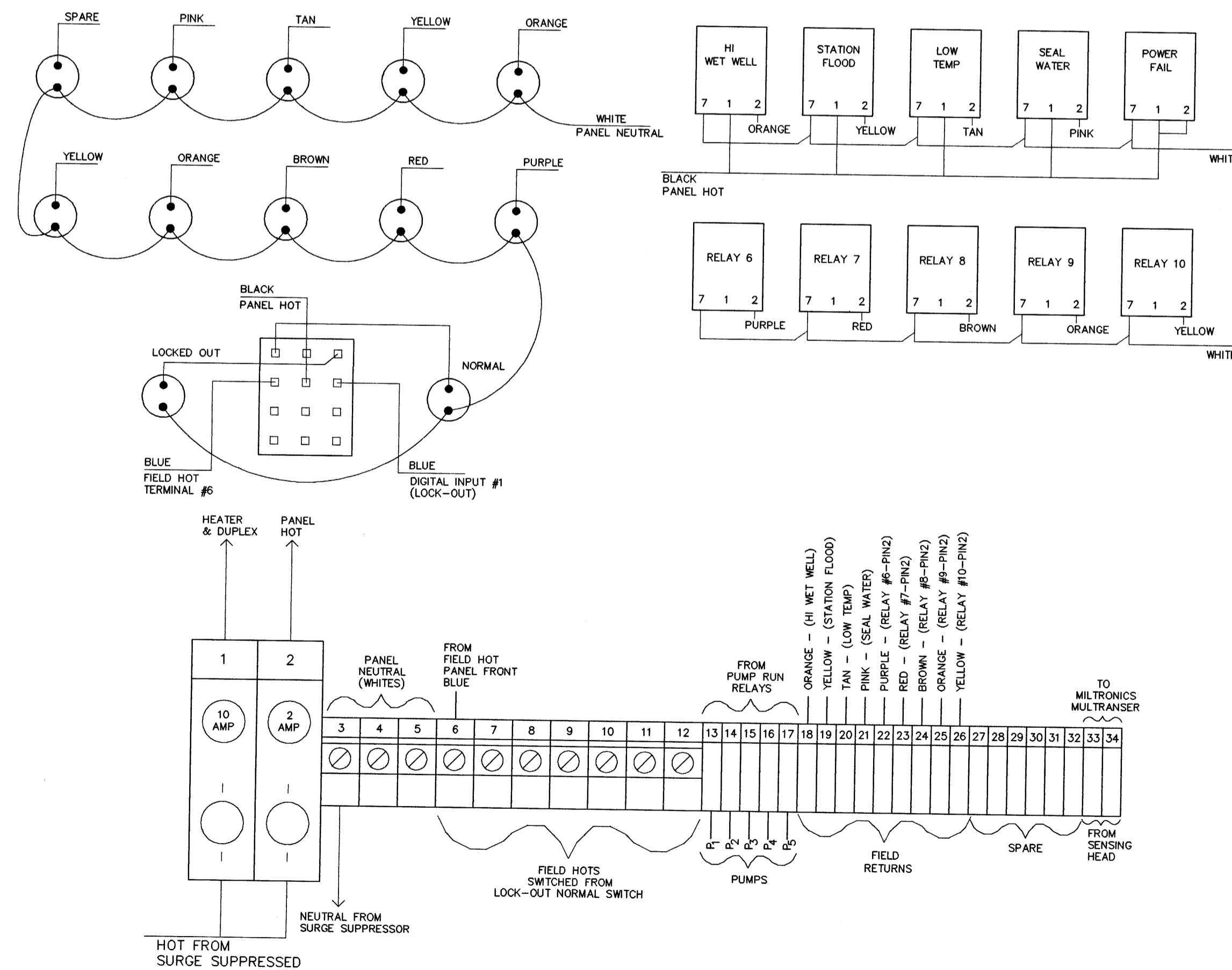
BACK PANEL LAYOUT



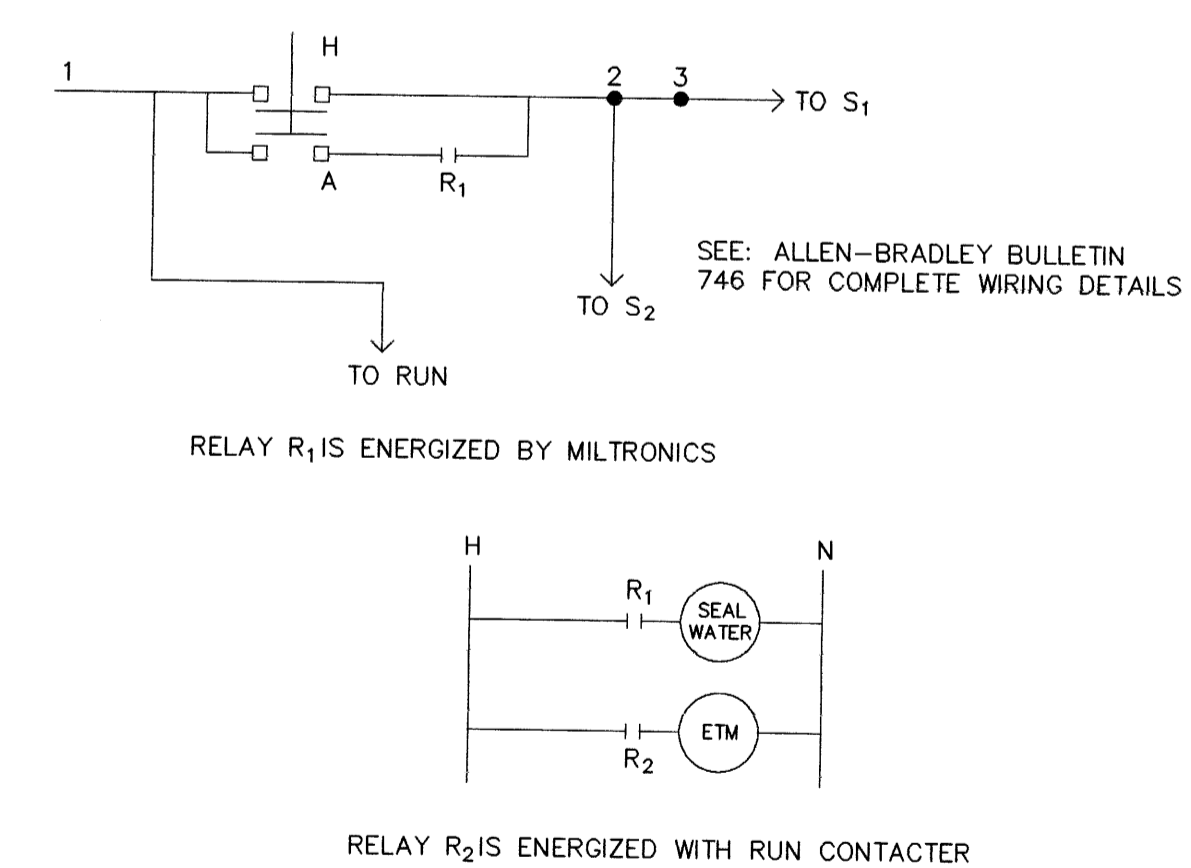
JESSIE



WIRING DIAGRAM

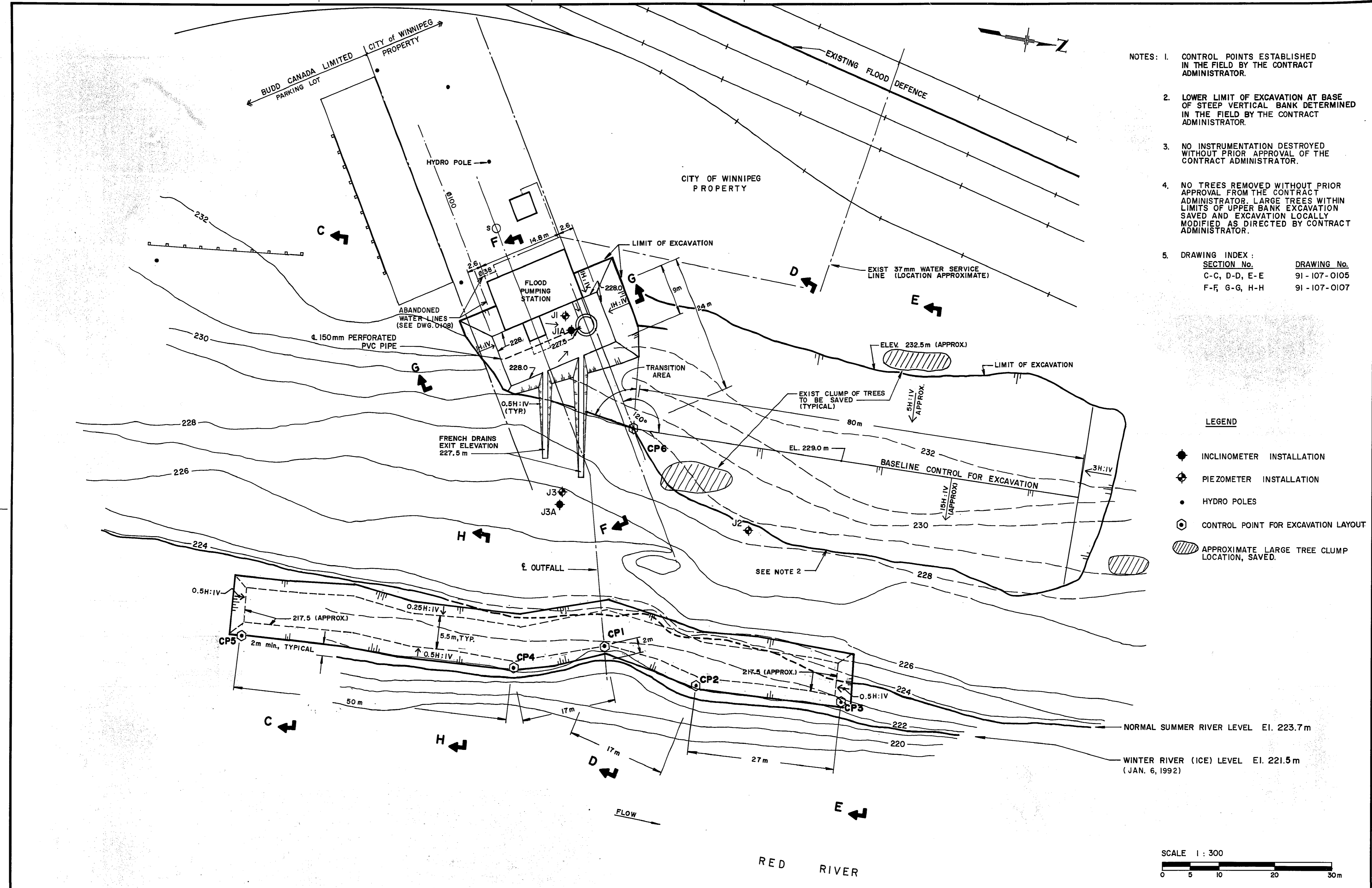


MOTOR STARTER MODIFICATION FOR HAND/AUTO CONTROL



B.M. ELEV.	FIELD BOOK #:	ENGINEER'S SEAL		<p><b>THE CITY OF WINNIPEG</b> WORKS AND OPERATIONS DIVISION WATER AND WASTE DEPARTMENT</p>	SHEET OF
POSTED TO LBS		DESIGNED BY: DM	CHECKED BY:		JESSIE FLOOD STATION
		DRAWN BY: CSN	APPROVED BY:	ELECTRICAL AND CONTROL	97-FS-Q-3
		HR. SCALE: N.T.S.	RELEASED FOR CONSTRUCTION:		
NO. REVISIONS	DATE	BY	DATE	PLOT DATE: 1997 07 07	

REF. or DRAWING No. **LD-1122**  
FILE NO. **LD 10394**  
DETAILS

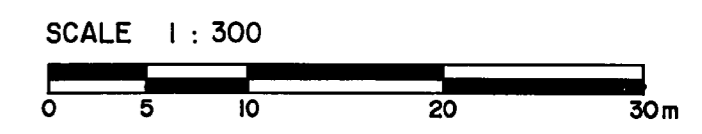


- NOTES:
- CONTROL POINTS ESTABLISHED IN THE FIELD BY THE CONTRACT ADMINISTRATOR.
  - LOWER LIMIT OF EXCAVATION AT BASE OF STEEP VERTICAL BANK DETERMINED IN THE FIELD BY THE CONTRACT ADMINISTRATOR.
  - NO INSTRUMENTATION DESTROYED WITHOUT PRIOR APPROVAL OF THE CONTRACT ADMINISTRATOR.
  - NO TREES REMOVED WITHOUT PRIOR APPROVAL FROM THE CONTRACT ADMINISTRATOR. LARGE TREES WITHIN LIMITS OF UPPER BANK EXCAVATION SAVED AND EXCAVATION LOCALLY MODIFIED AS DIRECTED BY CONTRACT ADMINISTRATOR.
  - DRAWING INDEX:
 

SECTION No.	DRAWING No.
C-C, D-D, E-E	91-107-0105
F-F, G-G, H-H	91-107-0107

LEGEND

- INCLINOMETER INSTALLATION
- PIEZOMETER INSTALLATION
- HYDRO POLES
- CONTROL POINT FOR EXCAVATION LAYOUT
- APPROXIMATE LARGE TREE CLUMP LOCATION, SAVED.



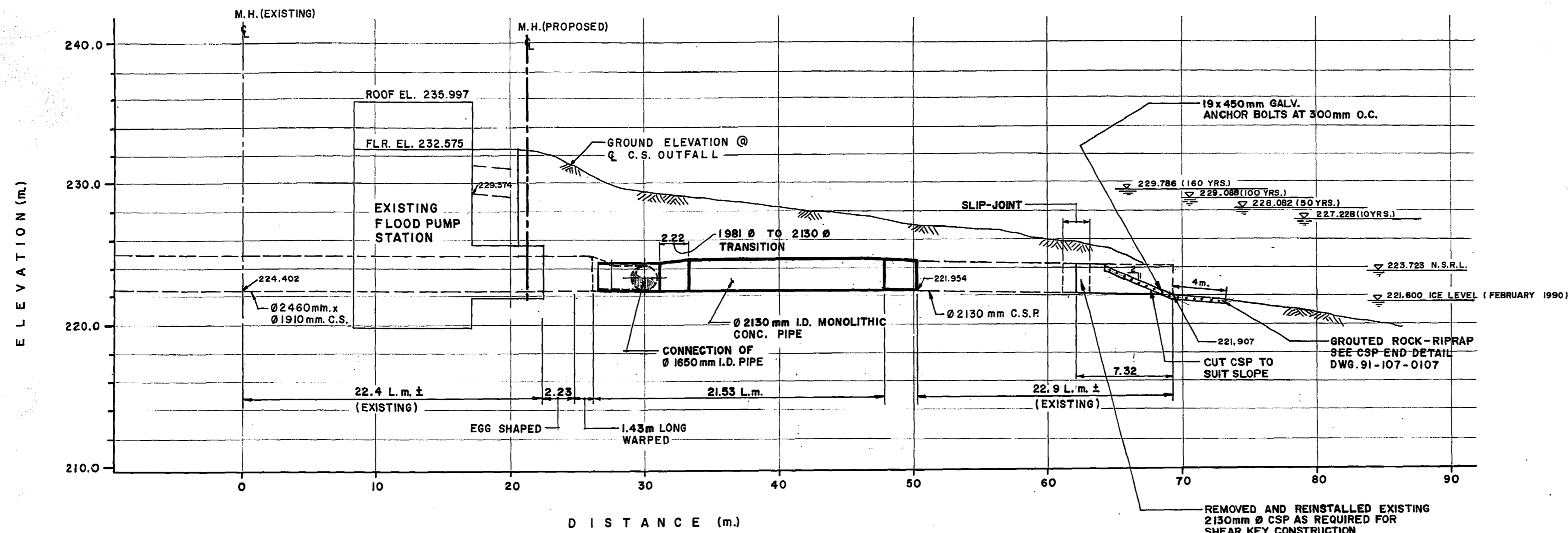
B.M. ELEV.		<b>KGS GROUP</b> CONSULTING ENGINEERS & PROJECT MANAGERS WINNIPEG THUNDER BAY		ENGINEER'S SEAL PROVINCE OF MANITOBA <b>J. B. SMITH</b> REGISTERED ENGINEER		<b>THE CITY OF WINNIPEG</b> WORKS AND OPERATIONS DIVISION WATERWORKS WASTE & DISPOSAL DEPARTMENT	
DESIGNED BY	M. J.	CHECKED BY	R. K.	JESSIE AVE. WASTEWATER / FLOOD PUMPING STATION - RIVERBANK STABILIZATION		CITY DRAWING NUMBER	
DRAWN BY	L.B.	APPROVED BY	J.B.S.	SHEET   OF			
1 ISSUED FOR TENDER 0-26-91		HOR. SCALE: 1 : 300		RELEASED FOR CONSTRUCTION		CONSULTANT DRAWING NO. 91-107-0104	
"AS CONSTRUCTED" 06-22-92		NO. REVISIONS		DATE BY DATE		EXCAVATION PLAN	
APPROVED BY		DATE		OCTOBER 1991		LD 1122	

FILE # LD10394

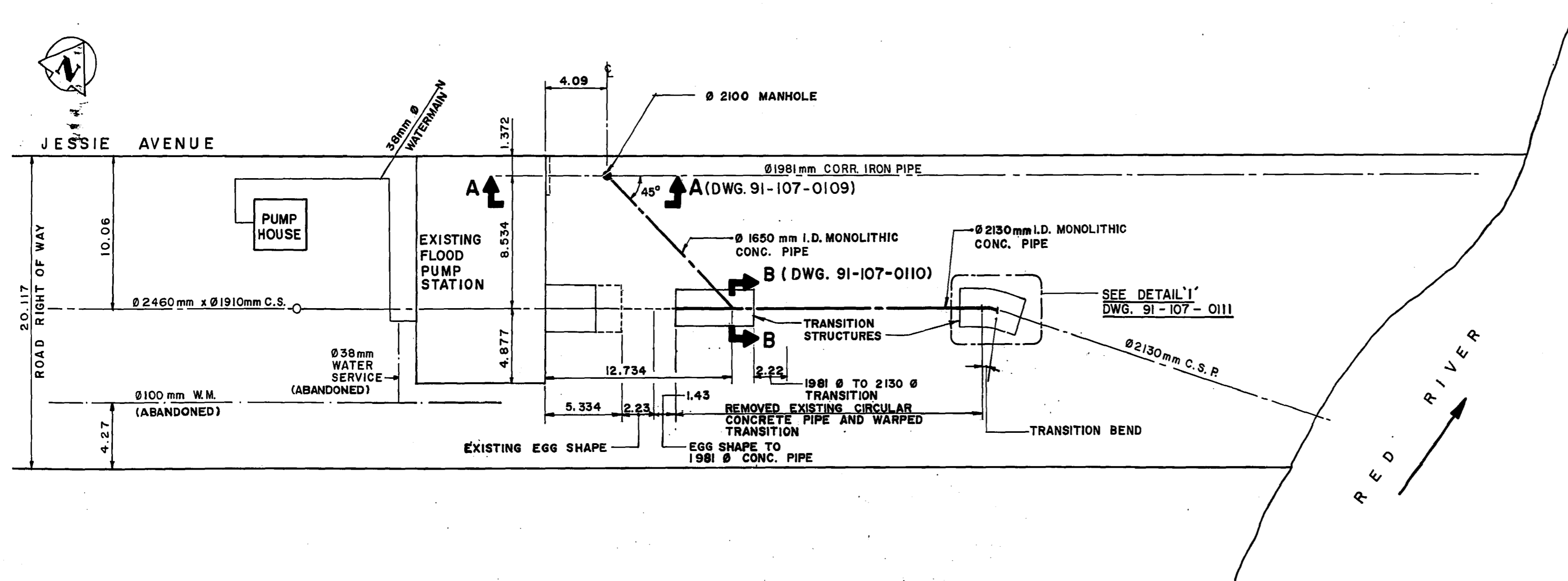
AZON CANADA  
3130110300

REF. or DRAWING No. **LD-1126**  
DETAILS FILE NO. **LD 10398**

**NOTE:**  
PROVIDE MATERIALS AND EXECUTE CONSTRUCTION  
IN ACCORDANCE WITH CITY OF WINNIPEG SPECIFICATIONS  
CW 2030-R4, CW 2131-R3, CW 2150-R4,  
AND CW 2160-R4.



**PROFILE**  
SCALE: HOR. = 1:200 m.  
VERT. = 1:200 m.

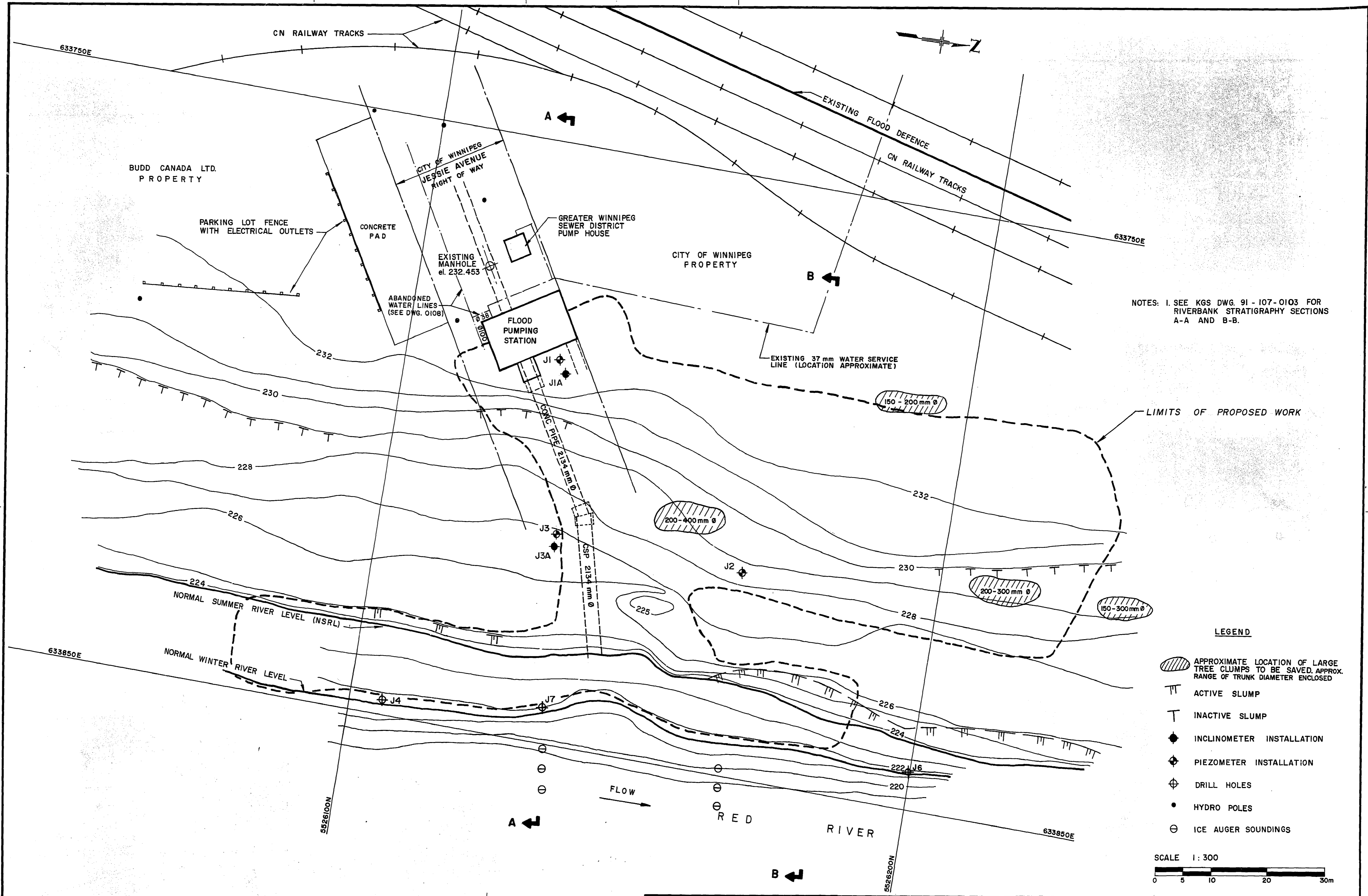


**PLAN**  
1:200 m.

B.M. ELEV.	<b>KGS GROUP</b> CONSULTING ENGINEERS & PROJECT MANAGERS WINNIPEG THUNDER BAY	ENGINEER'S SEAL R. J. HOUSTON REGISTERED ENGINEER	<b>THE CITY OF WINNIPEG</b> WORKS AND OPERATIONS DIVISION WATERWORKS WASTE & DISPOSAL DEPARTMENT JESSIE AVE. WASTEWATER/FLOOD PUMPING STATION - RIVERBANK STABILIZATION CITY DRAWING NUMBER SHEET 1 OF 1		
DESIGNED BY				CHECKED BY	CONSULTANT DRAWING NO. 91-107-0108 OUTFALL PLAN AND PROFILE LD 1126
DRAWN BY				APPROVED BY	
ISSUED FOR TENDER				RELEASED FOR CONSTRUCTION	
APPROVED BY	DATE	DATE	DATE		
"AS CONSTRUCTED"	06-22-92	10-26-91	OCTOBER, 1991		
ISSUED FOR INFORMATION	10-7-91	NOV. 20, 1991			

FILE # LD 10398

WO 101-84



NOTES: 1. SEE KGS DWG. 91-107-0103 FOR RIVERBANK STRATIGRAPHY SECTIONS A-A AND B-B.

LIMITS OF PROPOSED WORK

LEGEND

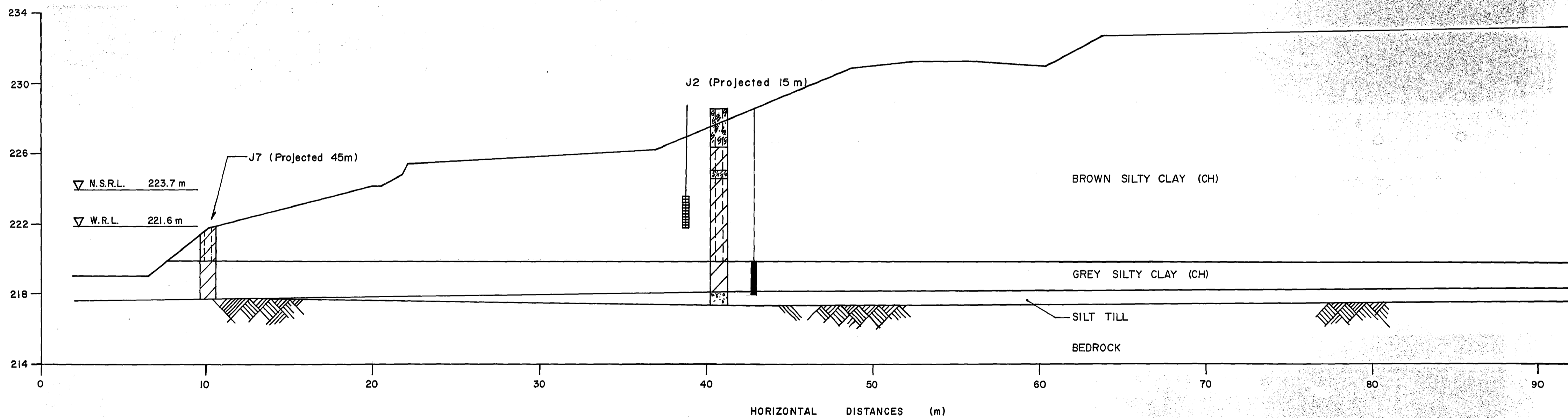
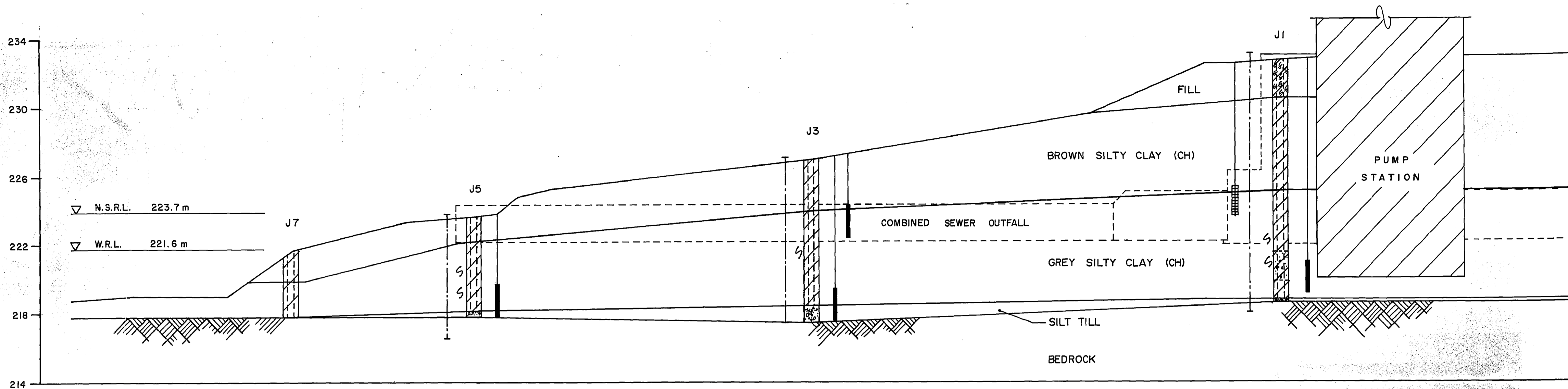
- APPROXIMATE LOCATION OF LARGE TREE CLUMPS TO BE SAVED, APPROX. RANGE OF TRUNK DIAMETER ENCLOSED
- ACTIVE SLUMP
- INACTIVE SLUMP
- INCLINOMETER INSTALLATION
- PIEZOMETER INSTALLATION
- DRILL HOLES
- HYDRO POLES
- ICE AUGER SOUNDINGS

SCALE 1:300  
0 5 10 20 30m

B.M. ELEV.	<b>KGS CONSULTING ENGINEERS &amp; PROJECT MANAGERS</b> WINNIPEG THUNDER BAY		ENGINEER'S SEAL <b>J. B. SMITH</b> 21/10/91 REGISTERED ENGINEER	<b>THE CITY OF WINNIPEG</b> WORKS AND OPERATIONS DIVISION WATERWORKS WASTE & DISPOSAL DEPARTMENT
DESIGNED BY M. J.	CHECKED BY R. K.	RELEASED FOR CONSTRUCTION <i>[Signature]</i>		JESSIE AVE. WASTEWATER / FLOOD PUMPING STATION - RIVERBANK STABILIZATION
DRAWN BY L. B.	APPROVED BY J. B. S.	HOR. SCALE: 1:300	CONSULTANT DRAWING NO. 91-107-0102	CITY DRAWING NUMBER
"AS CONSTRUCTED" 06-22-92		VERTICAL:	DATE OCTOBER 1991	SHEET 1 OF 1
NO. REVISIONS	DATE	DATE	DATE	EXISTING SITE PLAN

LD 1120

FILE # LD 10392



LEGEND :

- N.S.R.L. NORMAL SUMMER RIVER LEVEL
- W.R.L. WINTER RIVER (ICE) LEVEL
- ZONE OF PNEUMATIC PIEZOMETER INSTALLATION
- ZONE OF CASAGRANDE PIEZOMETER INSTALLATION
- INCLINOMETER INSTALLATION
- SLICKENSIDED SURFACE

SCALE 1:125

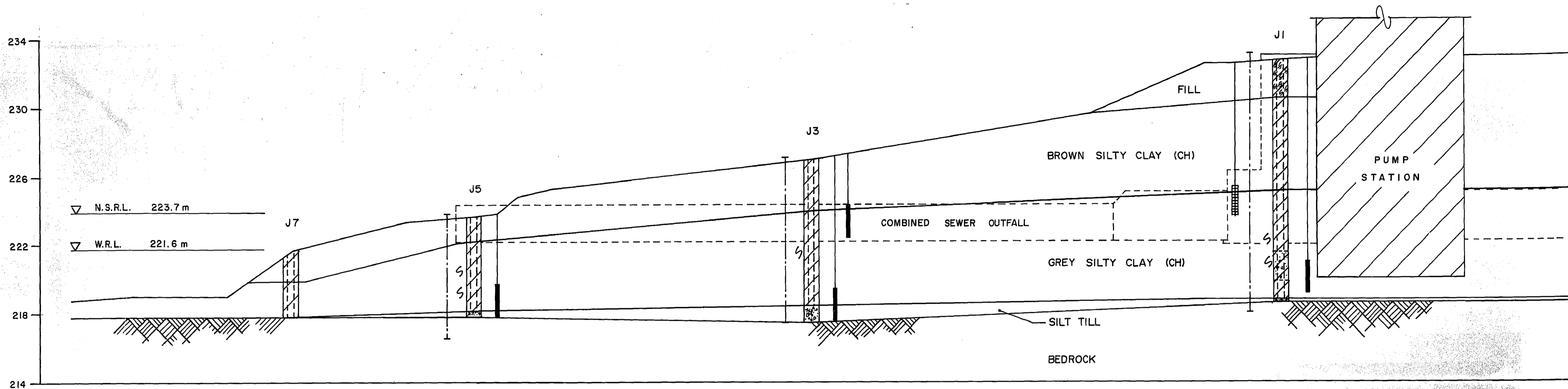


B.M. ELEV.	<b>KGS GROUP</b> CONSULTING ENGINEERS & PROJECT MANAGERS WINNIPEG THUNDER BAY		<b>ENGINEER'S SEAL</b> PROVINCE OF MANITOBA J. B. SMITH 22/10/91 REGISTERED ENGINEER	<b>THE CITY OF WINNIPEG</b> WORKS AND OPERATIONS DIVISION WATERWORKS WASTE & DISPOSAL DEPARTMENT JESSIE AVE. WASTEWATER / FLOOD PUMPING STATION - RIVERBANK STABILIZATION	CITY DRAWING NUMBER
	DESIGNED BY M. J.	CHECKED BY R. K.			SHEET   OF
	DRAWN BY L. B.	APPROVED BY J. B. S.			
1 ISSUED FOR TENDER 10-26-91		HOR. SCALE: 1:125	RELEASED FOR CONSTRUCTION	CONSULTANT DRAWING NO. 91-107-0103	
AS CONSTRUCTED 06-22-92		VERTICAL: 1:125	DATE 22/10/91	RIVERBANK STRATIGRAPHY	LD 1121
APPROVED BY	NO. REVISIONS	DATE	DATE		

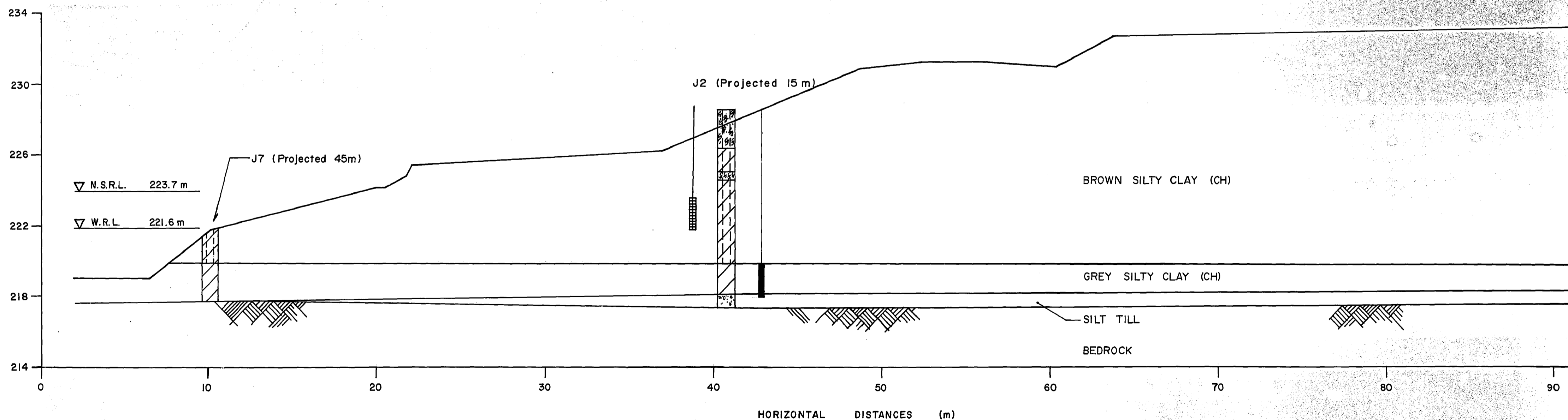
REF. or DRAWING No. LD-1121  
FILE NO. LD 10393

LD 10393

REF. or DRAWING No. **LD-1121**  
 FILE No. **LD 10393**  
 DETAILS



SECTION A-A

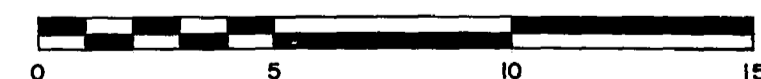


SECTION B-B

LEGEND :

- N.S.R.L. NORMAL SUMMER RIVER LEVEL
- W.R.L. WINTER RIVER (ICE) LEVEL
- ZONE OF PNEUMATIC PIEZOMETER INSTALLATION
- ZONE OF CASAGRANDE PIEZOMETER INSTALLATION
- INCLINOMETER INSTALLATION
- SLICKENSIDED SURFACE

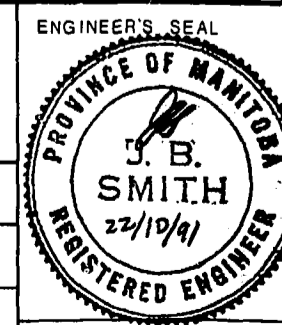
SCALE 1:125



B.M. ELEV.	

**KGS GROUP** CONSULTING ENGINEERS & PROJECT MANAGERS  
WINNIPEG THUNDER BAY

DESIGNED BY M. J. CHECKED BY R. K.  
 DRAWN BY L. B. APPROVED BY J. B. S.



**THE CITY OF WINNIPEG**  
 WORKS AND OPERATIONS DIVISION  
 WATERWORKS WASTE & DISPOSAL DEPARTMENT  
 JESSIE AVE. WASTEWATER / FLOOD PUMPING STATION - RIVERBANK STABILIZATION

AS CONSTRUCTED	06-22-92	0	ISSUED FOR TENDER	10-26-91			
APPROVED BY			ISSUED FOR INFORMATION	10-7-91			
		NO. REVISIONS	DATE	BY	DATE	DATE	
					OCTOBER 1991	DATE	

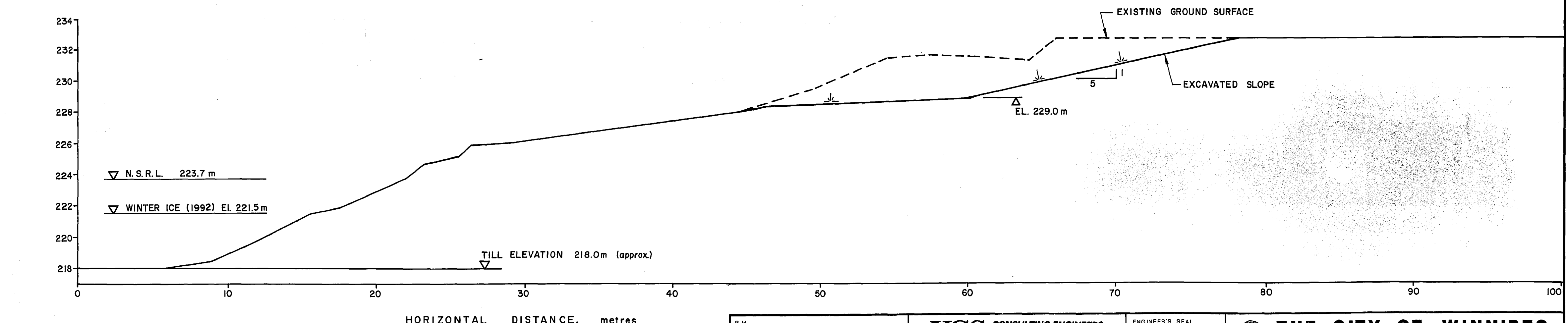
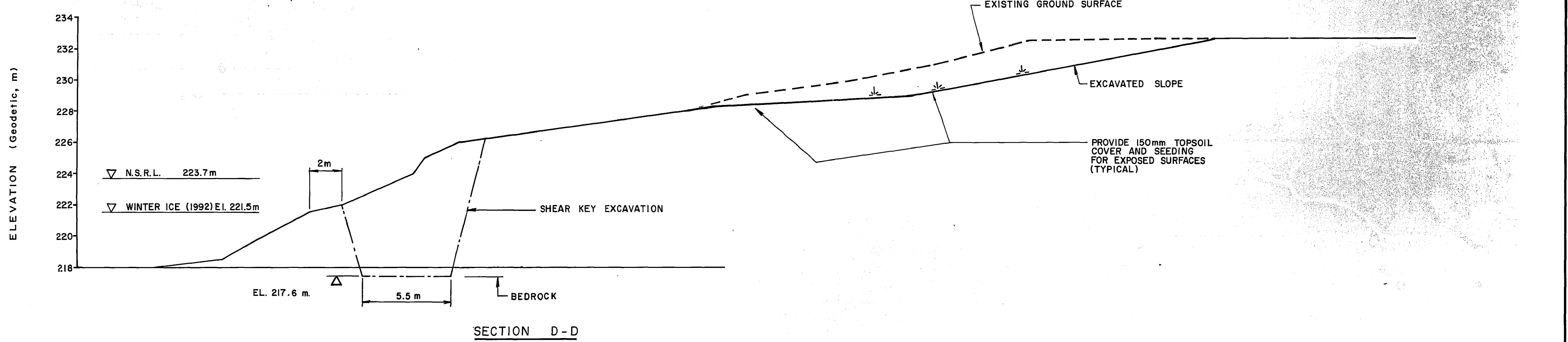
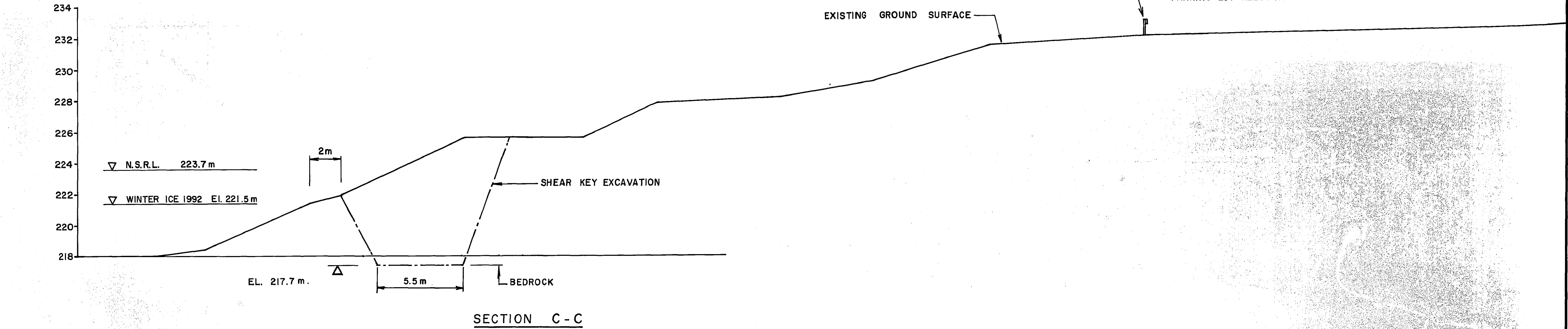
CONSULTANT DRAWING NO. 91-107-0103

RIVERBANK STRATIGRAPHY

CITY DRAWING NUMBER SHEET 1 OF 1 LD 1121

LD 10393

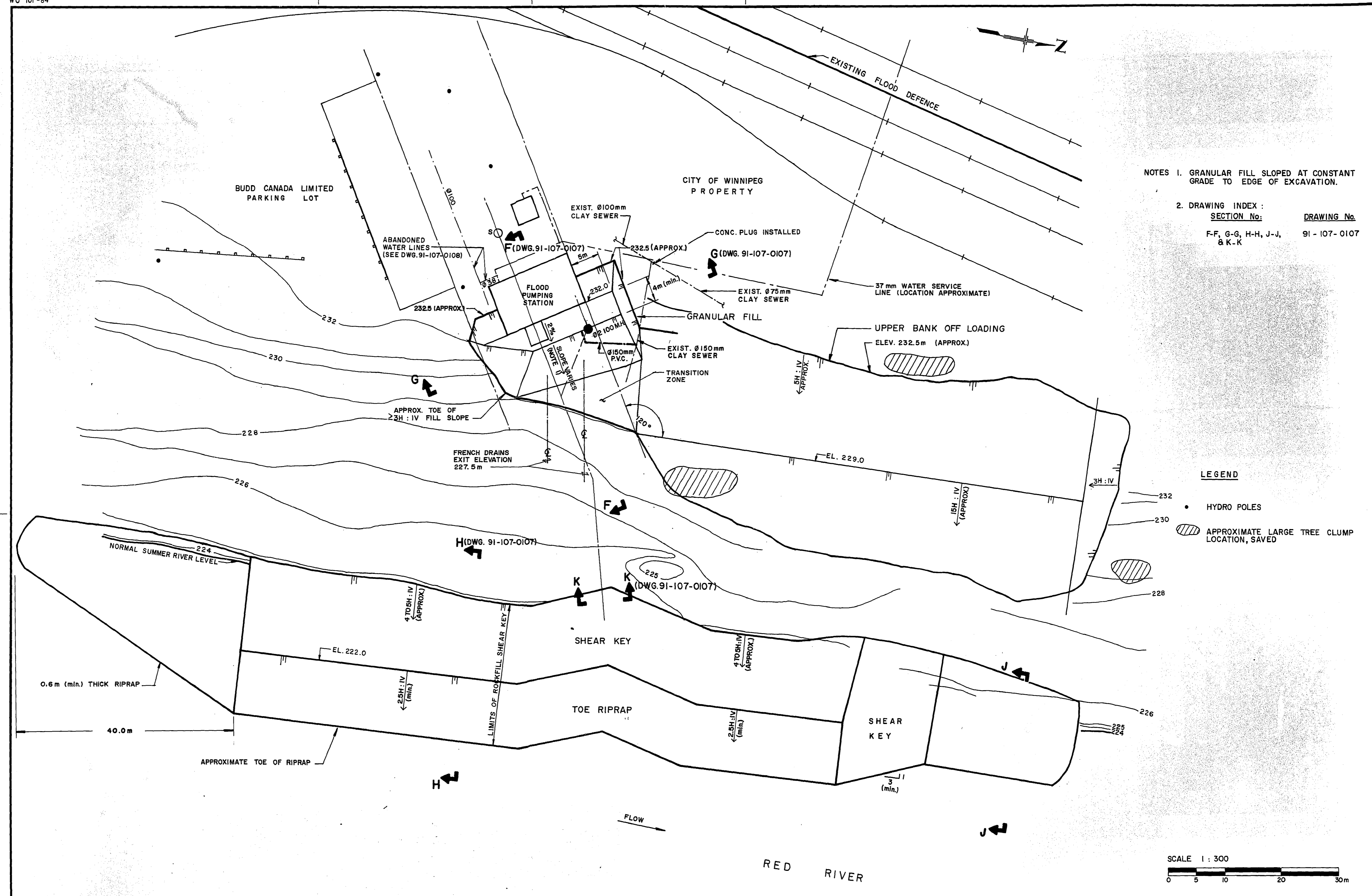
WO 101-84



NOTES : 1. CROSS - SECTIONS C-C, D-D, AND E-E, ABOVE, ARE LOCATED IN PLAN ON KGS DRAWING 91-107-0104.

<p><b>KGS GROUP</b> CONSULTING ENGINEERS &amp; PROJECT MANAGERS WINNIPEG THUNDER BAY</p>		<p>ENGINEER'S SEAL <b>J. B. SMITH</b> 22/10/91 REGISTERED ENGINEER</p>	<p><b>THE CITY OF WINNIPEG</b> WORKS AND OPERATIONS DIVISION WATERWORKS WASTE &amp; DISPOSAL DEPARTMENT</p>
DESIGNED BY: M. J.	CHECKED BY: R. K.	JESSIE AVE. WASTEWATER / FLOOD PUMPING STATION - RIVERBANK STABILIZATION	
DRAWN BY: L. B.	APPROVED BY: J. B. S.	CITY DRAWING NUMBER	
<p>ISSUED FOR TENDER 10-26-91</p>		SHEET 1 OF 1	
<p>ISSUED FOR INFORMATION 10-7-91</p>		CONSULTANT DRAWING NO. 91-107-0105	
AS CONSTRUCTED 06-22-92	APPROVED BY: [Signature]	BANK EXCAVATION SECTIONS	
NO. REVISIONS	DATE BY	LD 1123	
	DATE OCTOBER 1991	FILE # LD10395	

REF. or DRAWING No. **LD-1124**  
FILE NO. **LD 10396**  
DETAILS



NOTES  
1. GRANULAR FILL SLOPED AT CONSTANT GRADE TO EDGE OF EXCAVATION.  
2. DRAWING INDEX:  
SECTION No. DRAWING No.  
F-F, G-G, H-H, J-J, 91-107-0107  
& K-K

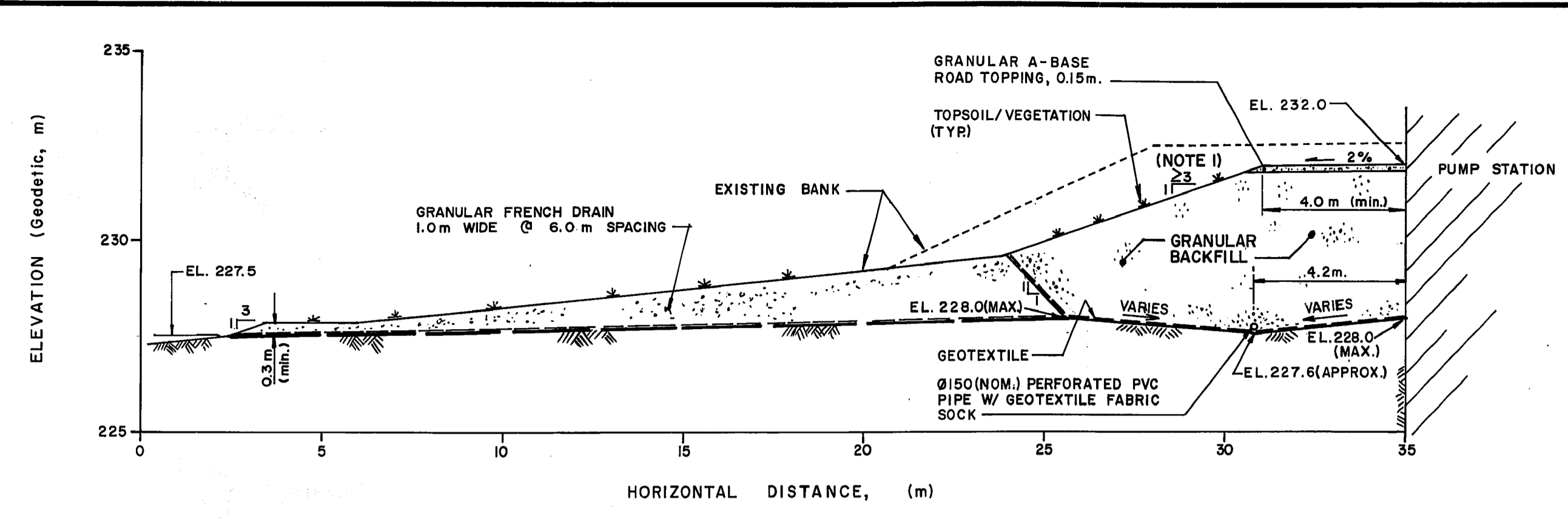
LEGEND  
• HYDRO POLES  
○ APPROXIMATE LARGE TREE CLUMP LOCATION, SAVED

B.M. ELEV.		<b>KGS GROUP</b> CONSULTING ENGINEERS & PROJECT MANAGERS WINNIPEG THUNDER BAY		ENGINEER'S SEAL PROVINCE OF MANITOBA <b>B. SMITH</b> 22/10/91 REGISTERED ENGINEER		<b>THE CITY OF WINNIPEG</b> WORKS AND OPERATIONS DIVISION WATERWORKS WASTE & DISPOSAL DEPARTMENT	
DESIGNED BY	M. J.	CHECKED BY	R. K.	JESSIE AVE. WASTEWATER / FLOOD PUMPING STATION - RIVERBANK STABILIZATION		CITY DRAWING NUMBER	
DRAWN BY	L. B.	APPROVED BY	J. B. S.	RELEASED FOR CONSTRUCTION		SHEET   OF	
"AS CONSTRUCTED"		06-22-92	0	HOR. SCALE: 1:300		CONSULTANT DRAWING NO. 91-107-0106	
ISSUED FOR TENDER	0-26-91	10-7-91	10-7-91	VERTICAL:		FINAL GRADING PLAN	
ISSUED FOR INFORMATION	10-7-91	10-7-91	10-7-91	DATE		LD 1124	
APPROVED BY		NO. REVISIONS		DATE		FILE # LD10396	

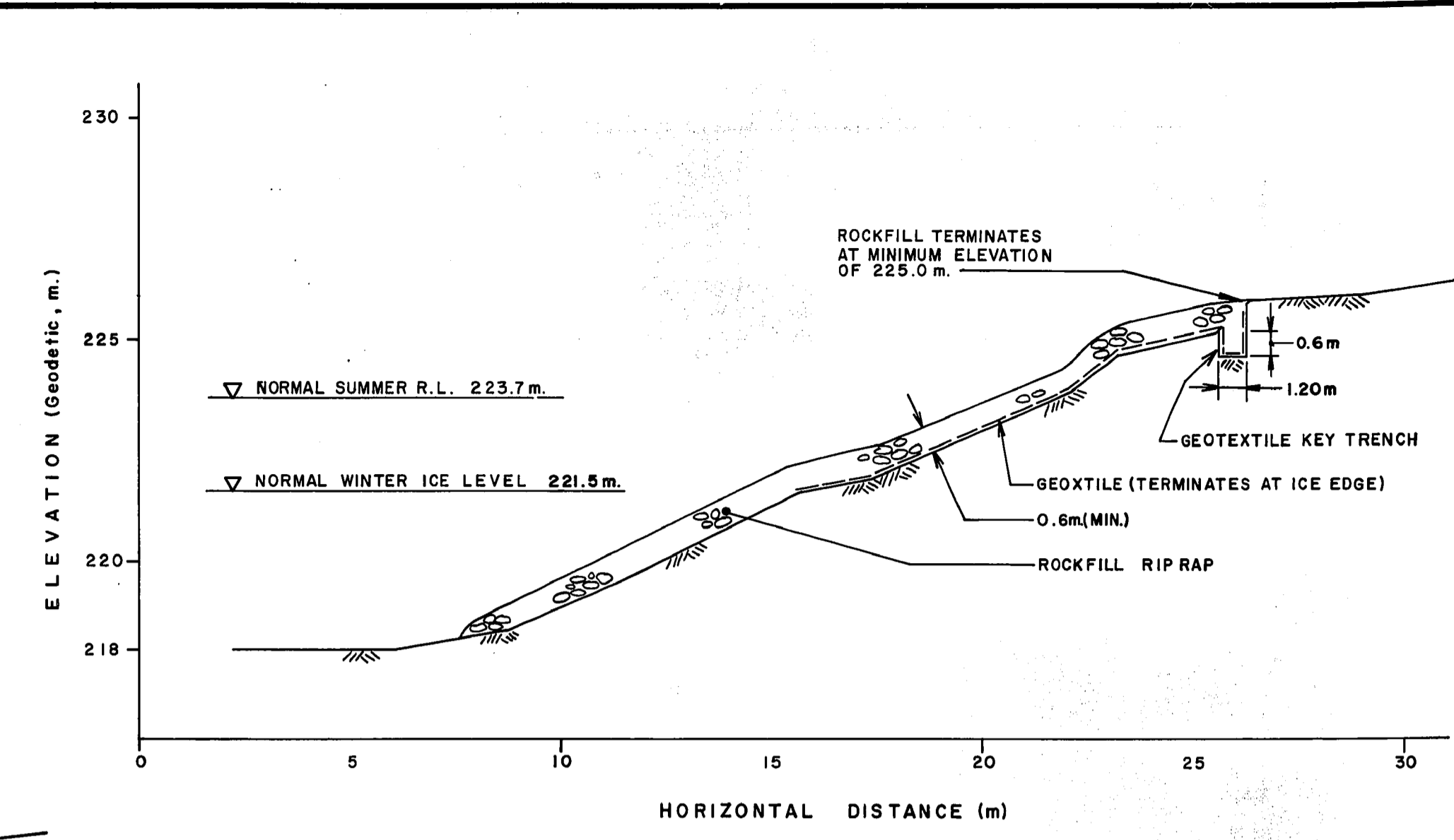


REF. of DRAWING No. **LD-1125**  
DETAILS: FILE No. **LD 10397**

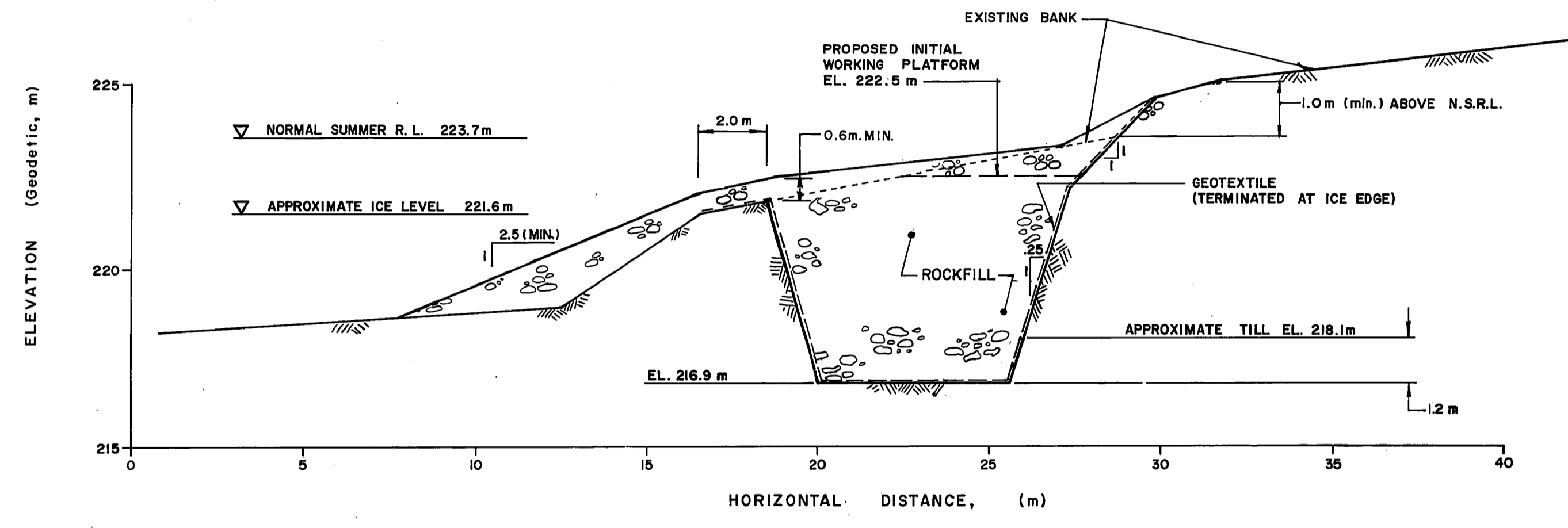
WO 101-84



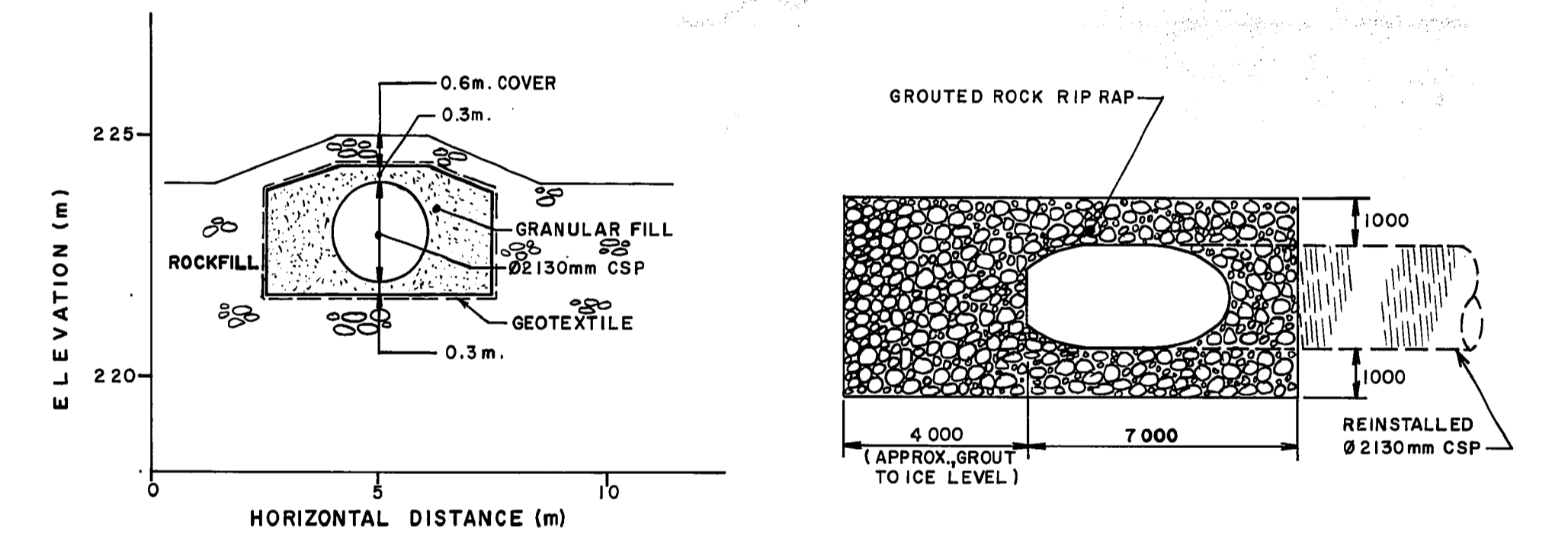
SECTION F-F (DWG. 91-107-0104)



SECTION J-J (DWG. 91-107-0106)

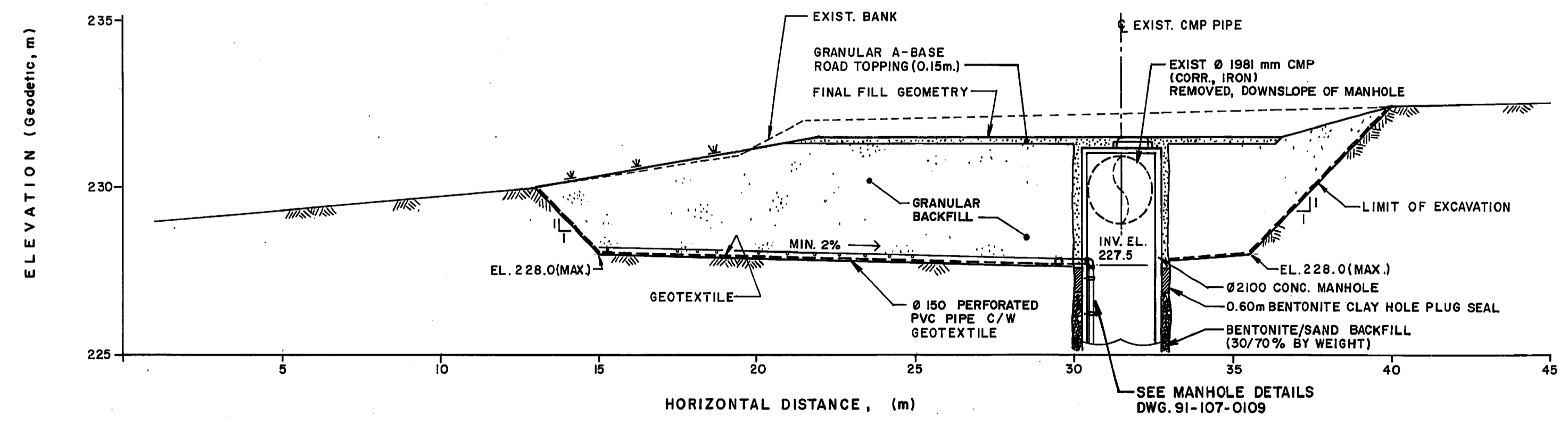


SECTION H-H (TYPICAL) (DWG. 91-107-0104)



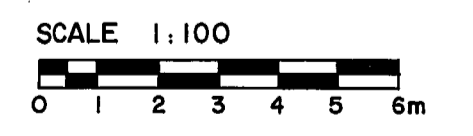
SECTION K-K (DWG. 91-107-0106)

CSP END DETAIL  
1:100



SECTION G-G (DWG. 91-107-0104)

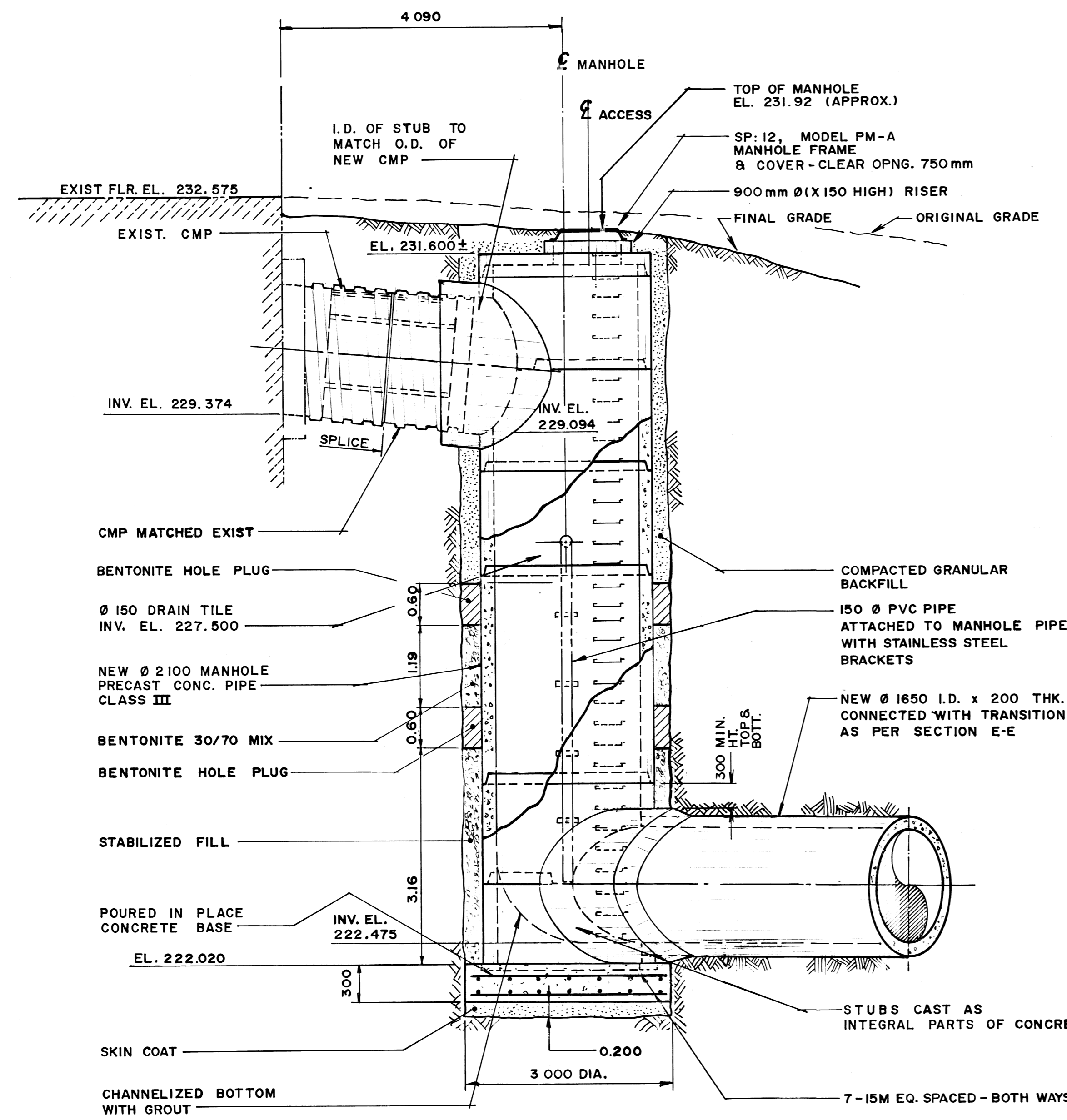
NOTE: SLOPE BACKFILL TO EDGE OF EXCAVATION AT  $\geq 3H:1V$ .



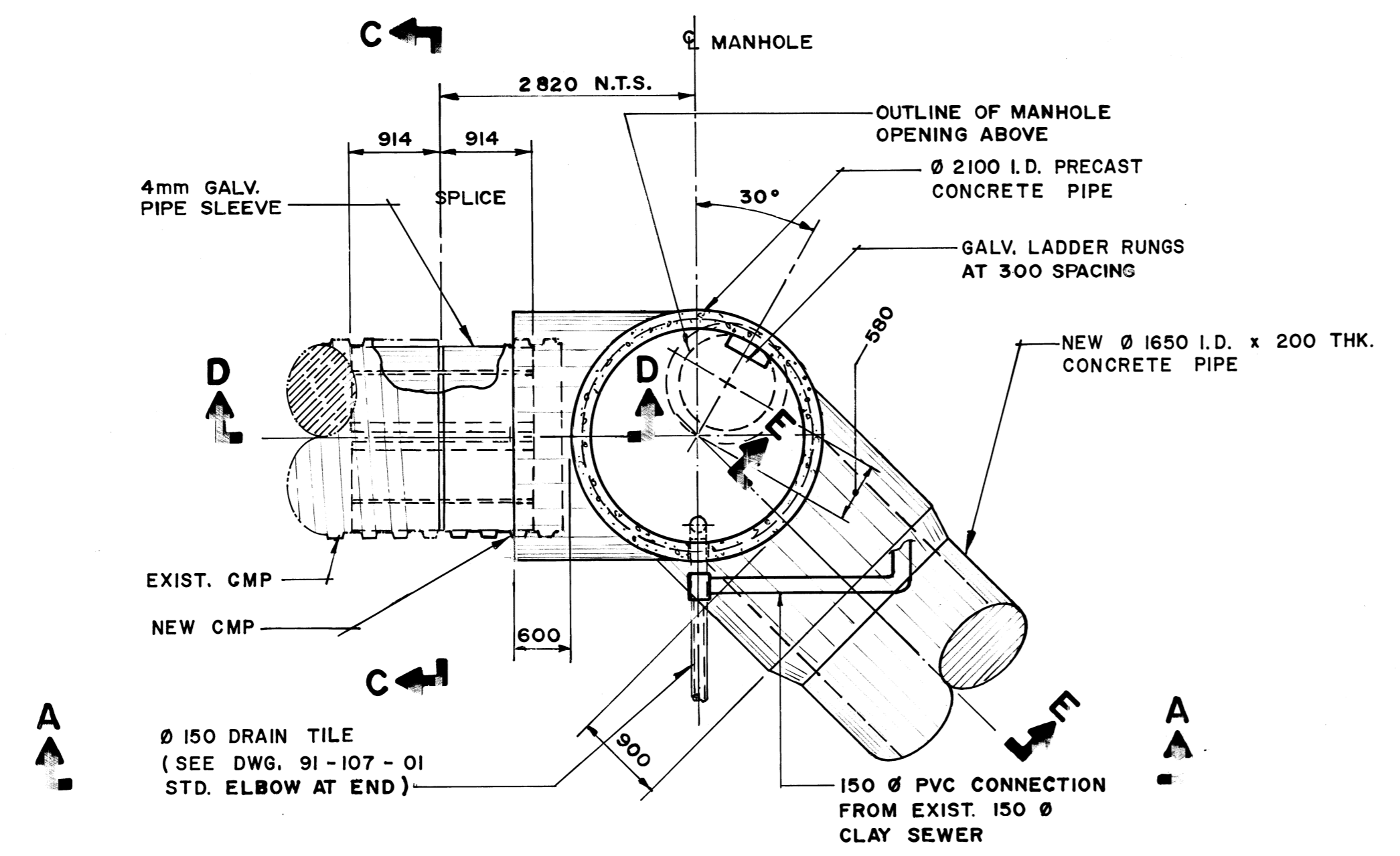
B.M. ELEV.		<b>KGS GROUP</b> CONSULTING ENGINEERS & PROJECT MANAGERS WINNIPEG THUNDER BAY		ENGINEER'S SEAL PROVINCE OF MANITOBA <b>B. SMITH</b> REGISTERED ENGINEER 2440/91		<b>THE CITY OF WINNIPEG</b> WORKS AND OPERATIONS DIVISION WATERWORKS WASTE & DISPOSAL DEPARTMENT	
DESIGNED BY	M.J.	CHECKED BY	R.K.	CONSULTANT DRAWING NO. 91-107-0107		JESSIE AVE. WASTEWATER/FLOOD PUMPING STATION - RIVERBANK STABILIZATION	
DRAWN BY	ESM/LB	APPROVED BY	J.B.S.	RELEASED FOR CONSTRUCTION <i>Ron Smith</i>		CITY DRAWING NUMBER SHEET 1 OF 1	
"AS CONSTRUCTED" 06-22-92		ISSUED FOR TENDER 10-26-91		HOR. SCALE: 1:100		EXCAVATION AND BACKFILL SECTIONS	
APPROVED BY <i>[Signature]</i>		ISSUED FOR INFORMATION 10-7-91		VERTICAL: 1:100		LD 1125	
NO. REVISIONS		DATE BY		DATE OCTOBER, 1991		DATE 10/20/91	

FILE# LD 10397

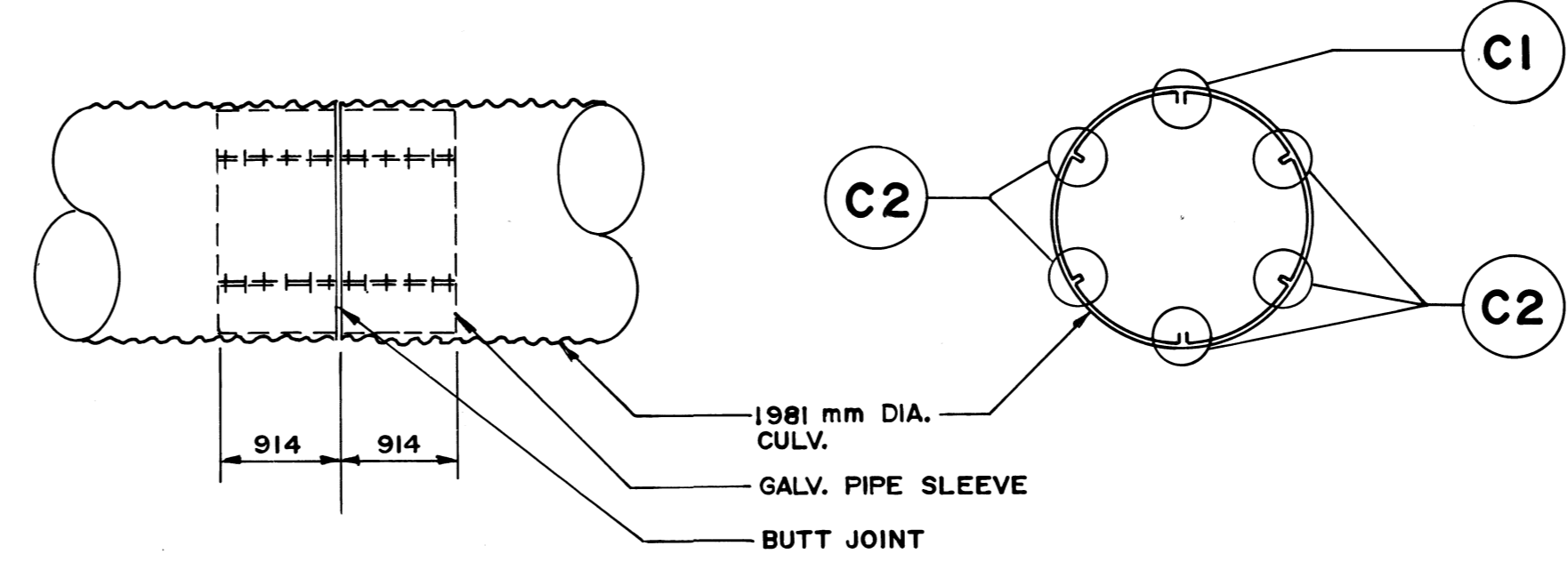
REF. or DRAWING No. **LD-1127**  
DETAILS FILE No. **LD10399**



**SECTION A-A (DWG. 91-107-0108)**  
1:50

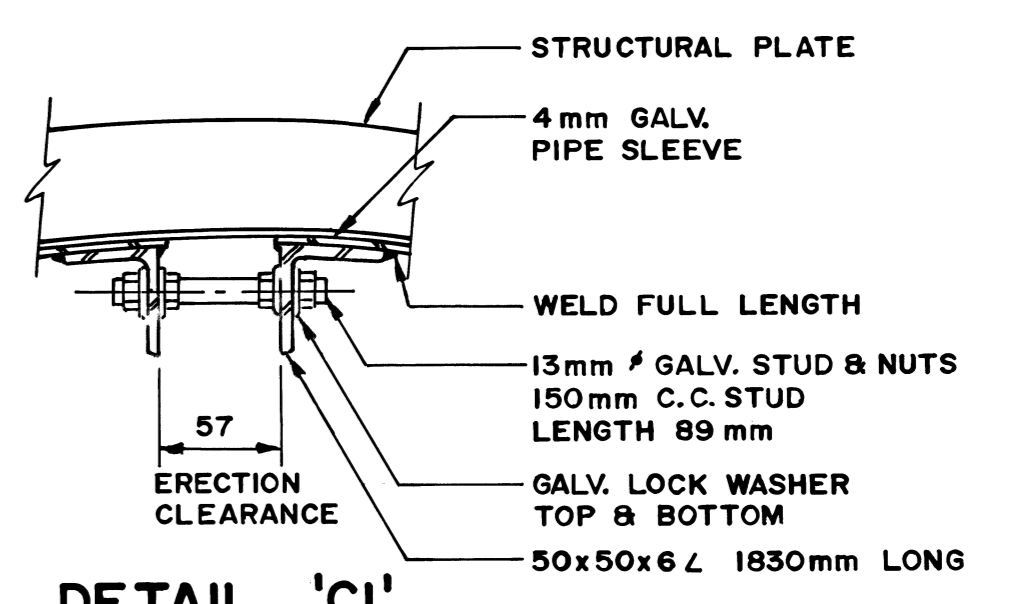


**PLAN - MANHOLE**  
1:50

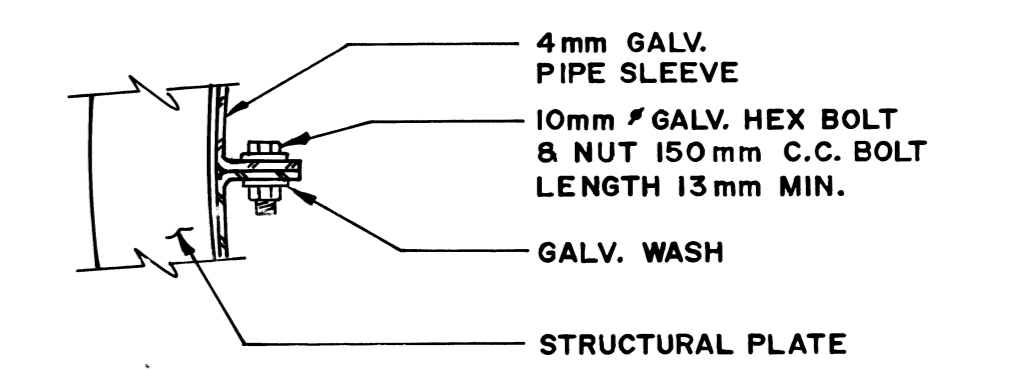


**ELEVATION SECTION C-C**

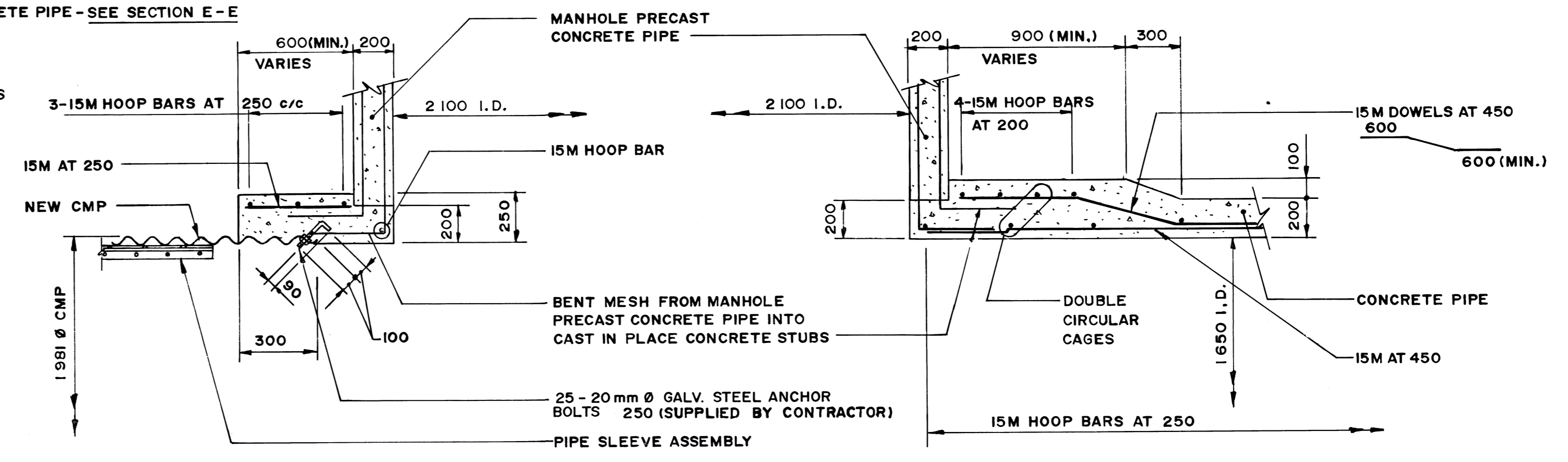
**SLIP JOINT DETAILS**



**DETAIL 'C1'**  
N.T.S.



**DETAIL 'C2'**  
N.T.S.



**SECTION D-D**  
1:20

**SECTION E-E**  
1:20

"AS CONSTRUCTED" 06-22-92  
APPROVED BY [Signature]

ISSUED FOR TENDER 10-26-91  
ISSUED FOR INFORMATION 10-7-91  
NO REVISIONS DATE BY

**KGS GROUP** CONSULTING ENGINEERS & PROJECT MANAGERS  
WINNIPEG THUNDER BAY

DESIGNED BY R. J. L. CHECKED BY D. B. M.  
DRAWN BY M. N. T. APPROVED BY [Signature]

HOR SCALE AS NOTED  
VERTICAL AS NOTED

RELEASD FOR CONTRACT [Signature]  
DATE 10-22-1991

ENGINEER'S SEAL  
**MR. J. LONG**  
REGISTERED ENGINEER

CONSULTANT DRAWING NO. 91-107-0109

**THE CITY OF WINNIPEG**  
WORKS AND OPERATIONS DIVISION

JESSIE AVE. WASTEWATER/FLOOD PUMPING STATION - RIVERBANK STABILIZATION

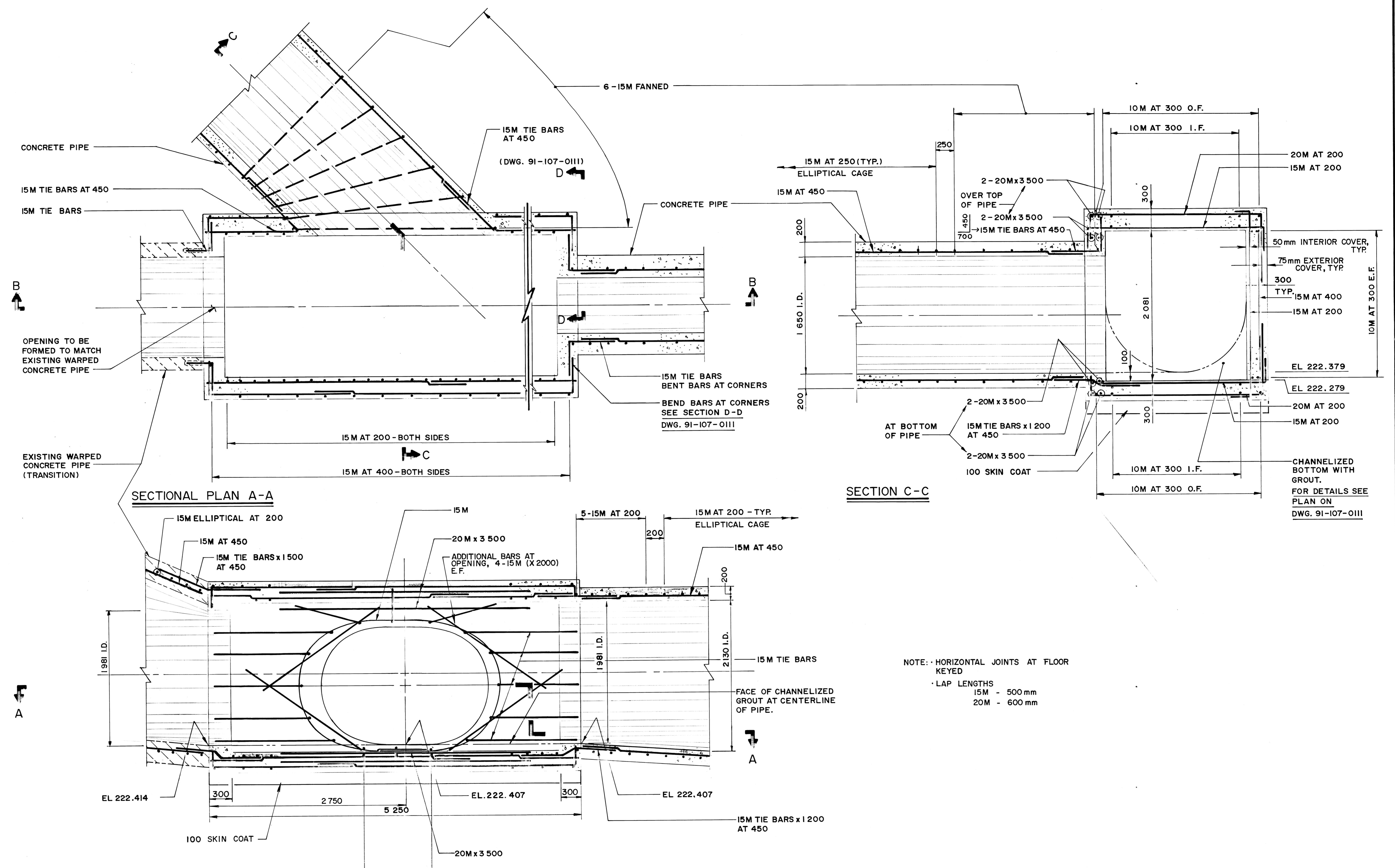
CITY DRAWING NUMBER SHEET 1 OF 1

**MANHOLE DETAILS** LD 1127

FILE # LD 10399

REF. or DRAWING No. **LD-1128**  
DETAILS FILE NO. **LD 10400**

WO 101-84



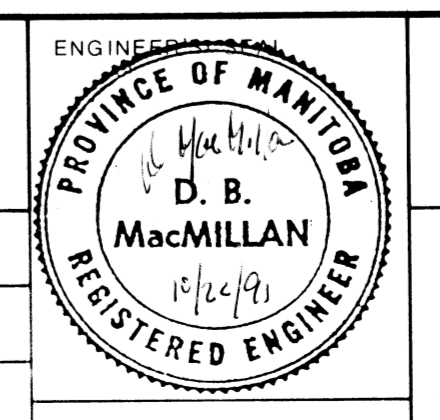
NOTE: HORIZONTAL JOINTS AT FLOOR KEYS  
LAP LENGTHS  
15M - 500 mm  
20M - 600 mm

SECTIONAL PLAN A-A

SECTION B-B

SECTION C-C

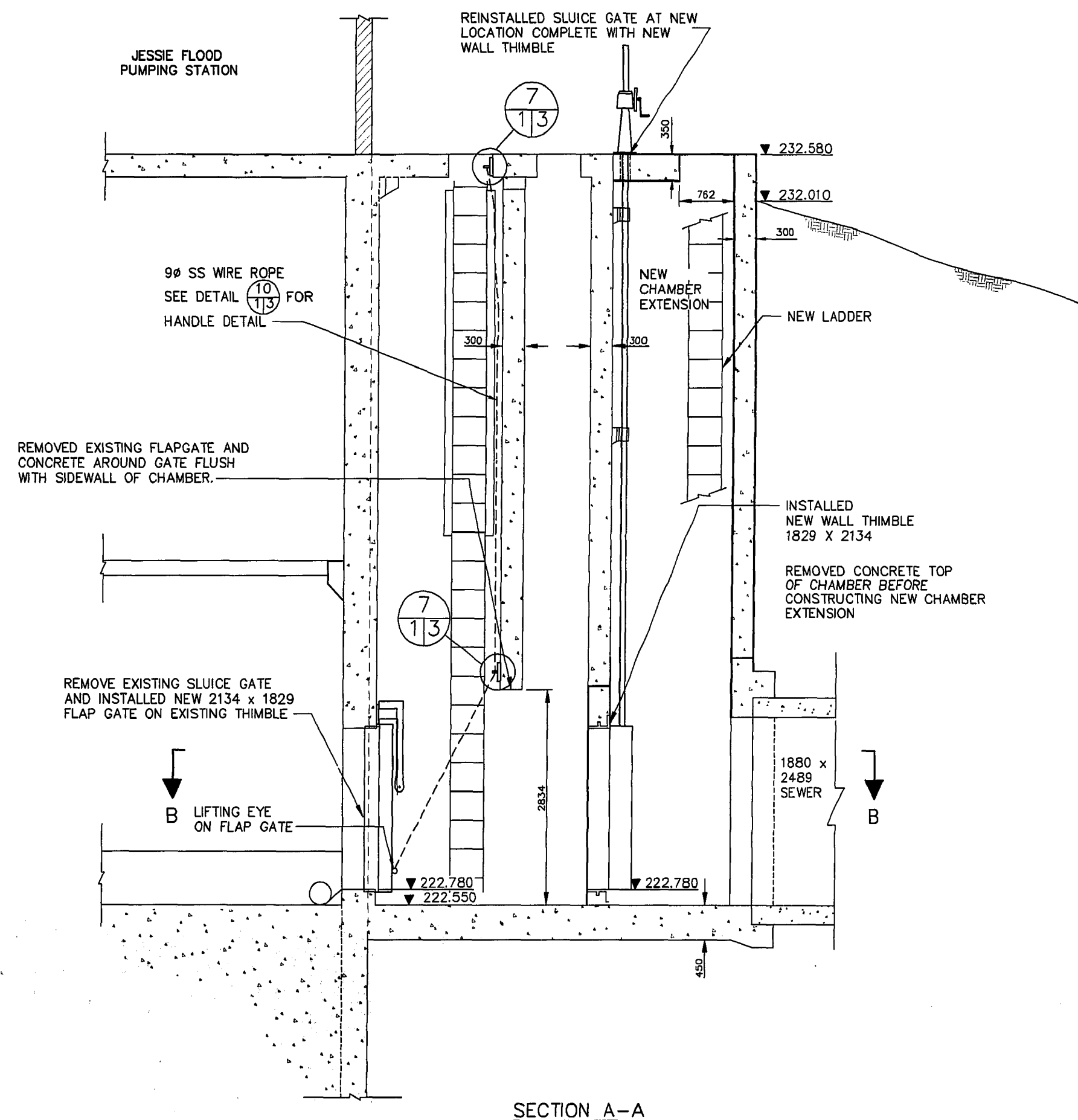
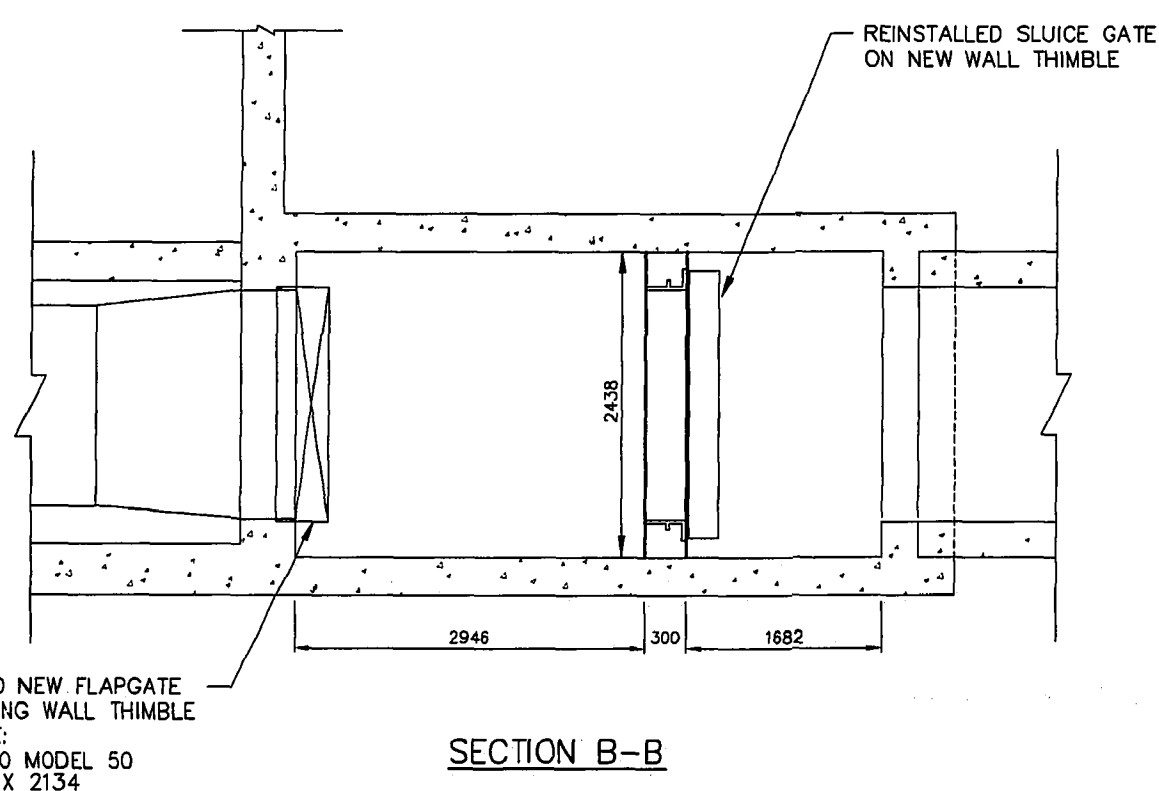
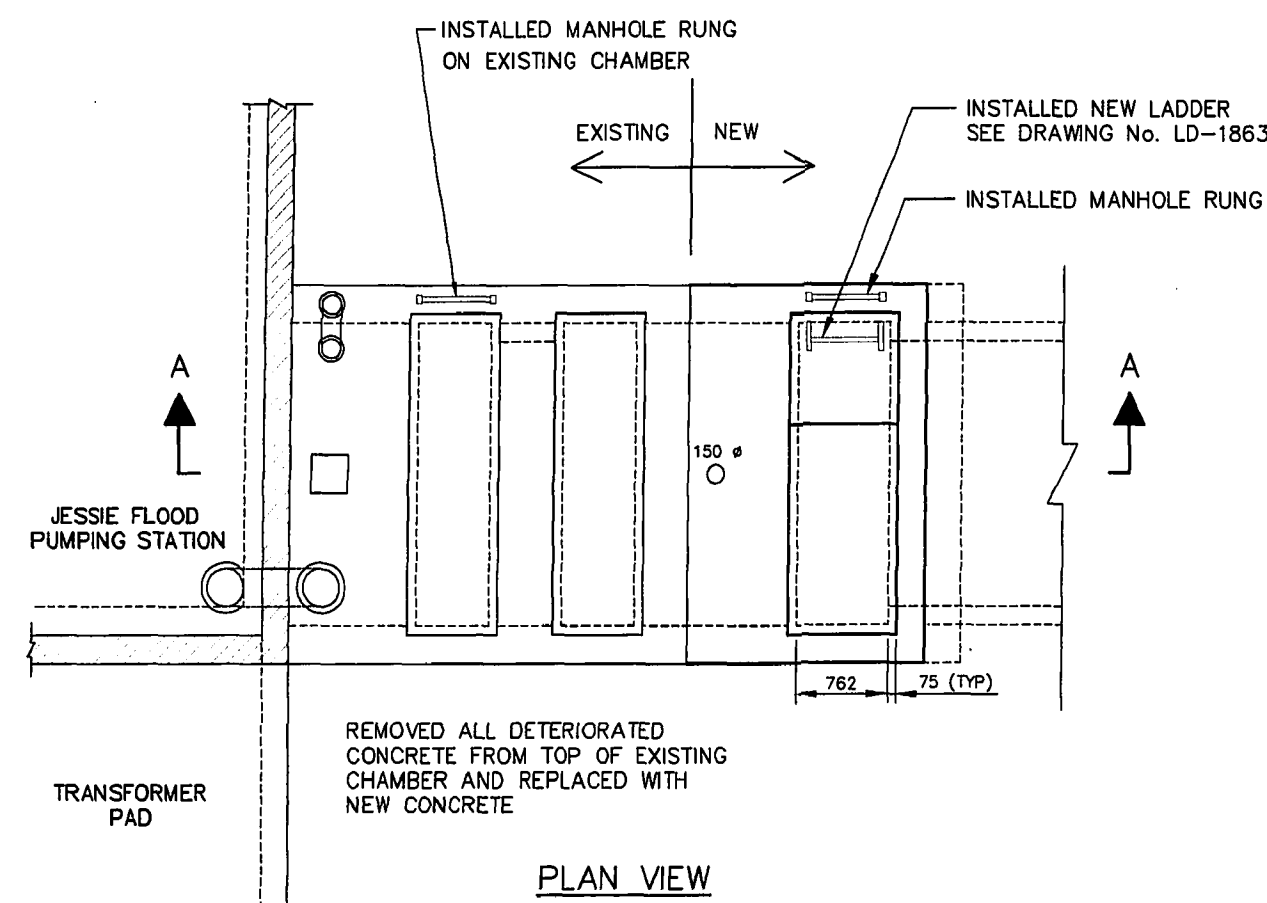
B.M. ELEV.					
DESIGNED BY D. B. M.		CHECKED BY R. L.		KGS GROUP CONSULTING ENGINEERS & PROJECT MANAGERS	
DRAWN BY J. F.		APPROVED BY		WINNIPEG THUNDER BAY	
1 ISSUED FOR TENDER 10-26-91		2 ISSUED FOR INFORMATION 10-7-91		HOR. SCALE 1:25	
APPROVED BY		DATE		OCTOBER, 1991	
NO. REVISIONS		DATE		DATE	



**THE CITY OF WINNIPEG**  
WORKS AND OPERATIONS DIVISION  
WATERWORKS WASTE & DISPOSAL DEPARTMENT  
JESSIE AVE. WASTEWATER/FLOOD PUMPING STATION - RIVERBANK STABILIZATION

CONSULTANT DRAWING NO. 91-107-0110  
TRANSITION STRUCTURE

CITY DRAWING NUMBER  
SHEET 1 OF 1  
LD 1128



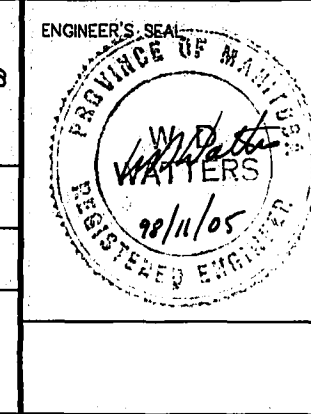
**GENERAL NOTES**

- 1). CONCRETE MATERIALS, METHODS OF CONSTRUCTION AND METHODS OF TESTING CONCRETE CONFORM TO CAN. 3-A23.1 AND CAN. 3-A23.2.
- 2). ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 30 MPa AT 28 DAYS AND CEMENT SHALL BE TYPE 50 SULPHATE RESISTANT.
- 3). REINFORCEMENT SHALL BE NEW DEFORMED BILLET STEEL BAR CONFORMING TO CSA G30.12M GRADE 400 MPa
- 4). UNLESS NOTED OTHERWISE CLEAR CONCRETE OVER REINFORCING STEEL SHALL BE:
  - CONCRETE CAST AGAINST EARTH 75 mm
  - ALL OTHER CONCRETE 50 mm
- 5). ALL STEEL ANCHORS, NUTS AND BOLTS CONFORM TO ASTM A276 TYPE #316 STAINLESS STEEL.
- 6). ALL ALUMINUM IN CONTRACT WITH CONCRETE PAINTED WITH BITUMINOUS ISOLATION COATING AT THE ALUMINUM / CONCRETE INTERFACE.
- 7). DO NOT CUT EXISTING REBAR AT CONNECTION OF NEW CONCRETE. BEND / RUN EXISTING REBAR INTO NEW CONCRETE.
- 8). SHOP DRAWINGS FOR REINFORCING STEEL AND LIFTING MECHANISM INCLUDING RELATED HARDWARE SUBMITTED AT LEAST 14 DAYS BEFORE FABRICATION.
- 9). PROCEDURE FOR DOWELING INTO EXISTING CONCRETE:
  - DRILL HOLE IN EXISTING CONCRETE TO DEPTH AND DIA. SHOWN ON DWGS.
  - CLEAN OUT HOLE TO REMOVE ALL DRILLING DEBRIS.
  - FILL HOLE WITH NON-SHRINK GROUT AND INSERT DOWEL. ROTATE TO ENSURE GOOD COVERAGE OF GROUT.

**AS-CONSTRUCTED**  
*Lehisa K. C. Walters*  
 CONTRACT ADMINISTRATION DRAFTING & GRAPHIC SERVICES DATE  
 WATER AND WASTE DEPARTMENT

**METRIC**  
 WHOLE NUMBERS INDICATE MILLIMETRES  
 DECIMALIZED NUMBERS INDICATE METRES

B.M. ELEV.	FIELD BOOK #	<b>CITY OF WINNIPEG WATER AND WASTE ENGINEERING DIVISION</b>	
POSTED TO LBIS		DESIGNED BY JE	CHECKED BY JE
		DRAWN BY TM	APPROVED BY WDW
		HOR. SCALE 1:50	RELEASED FOR CONSTRUCTION
		VERTICAL	<i>Walters</i>
1 REVISED TO AS-BUILT	99.08.05 MTZ	DATE NOVEMBER 03, 1998	DATE 22/11/05
NO. REVISIONS	DATE BY	DATE	DATE

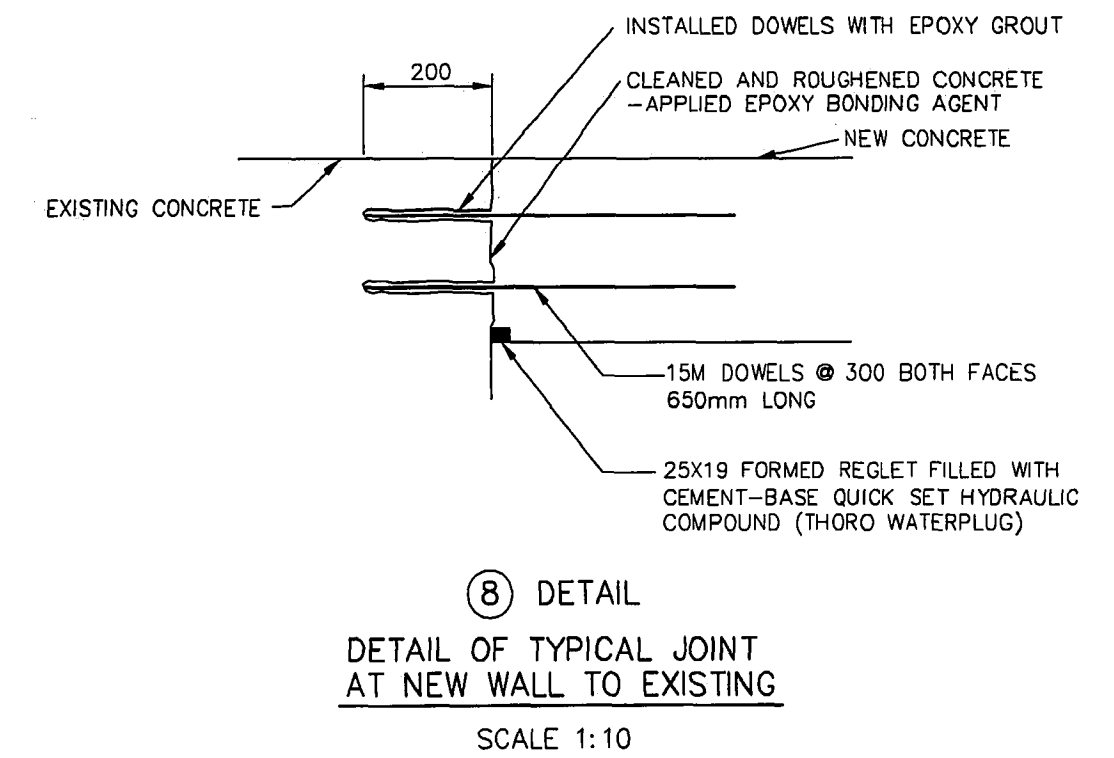
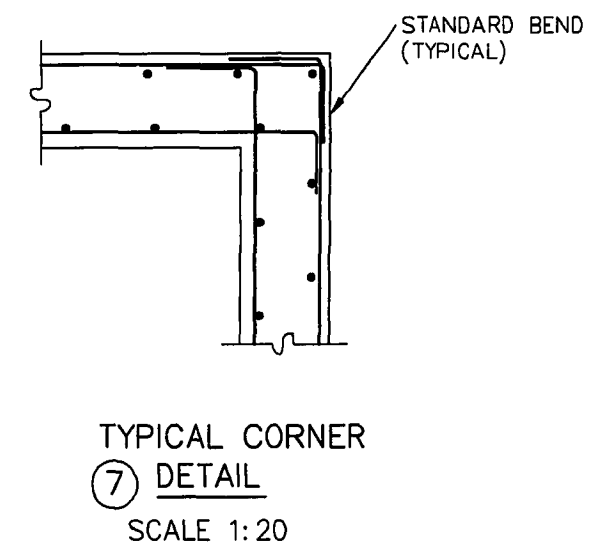
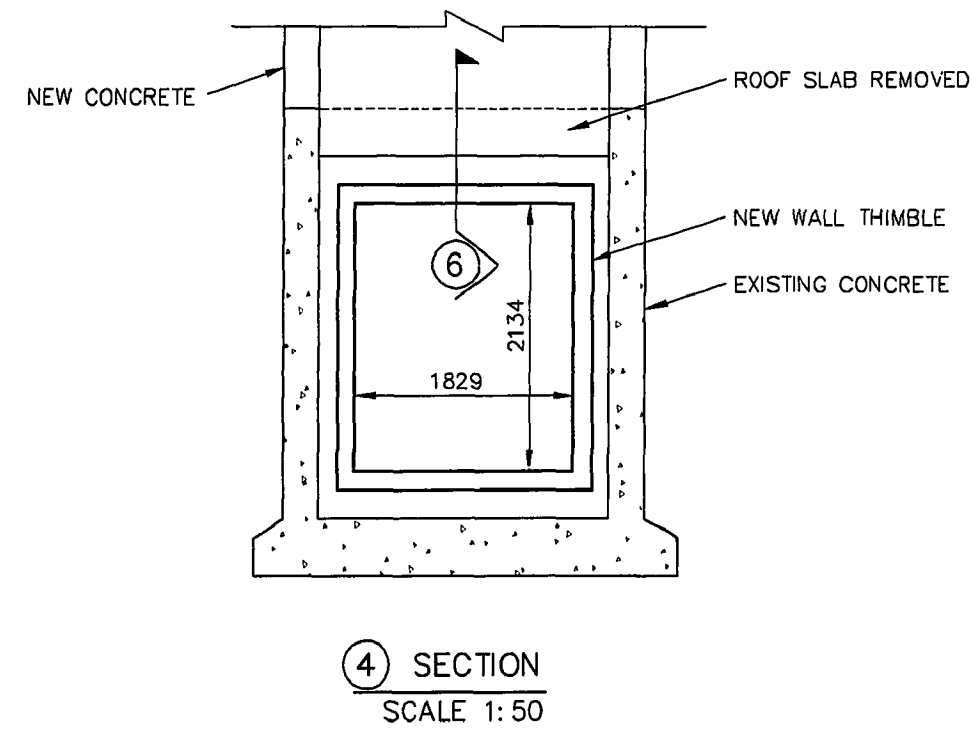
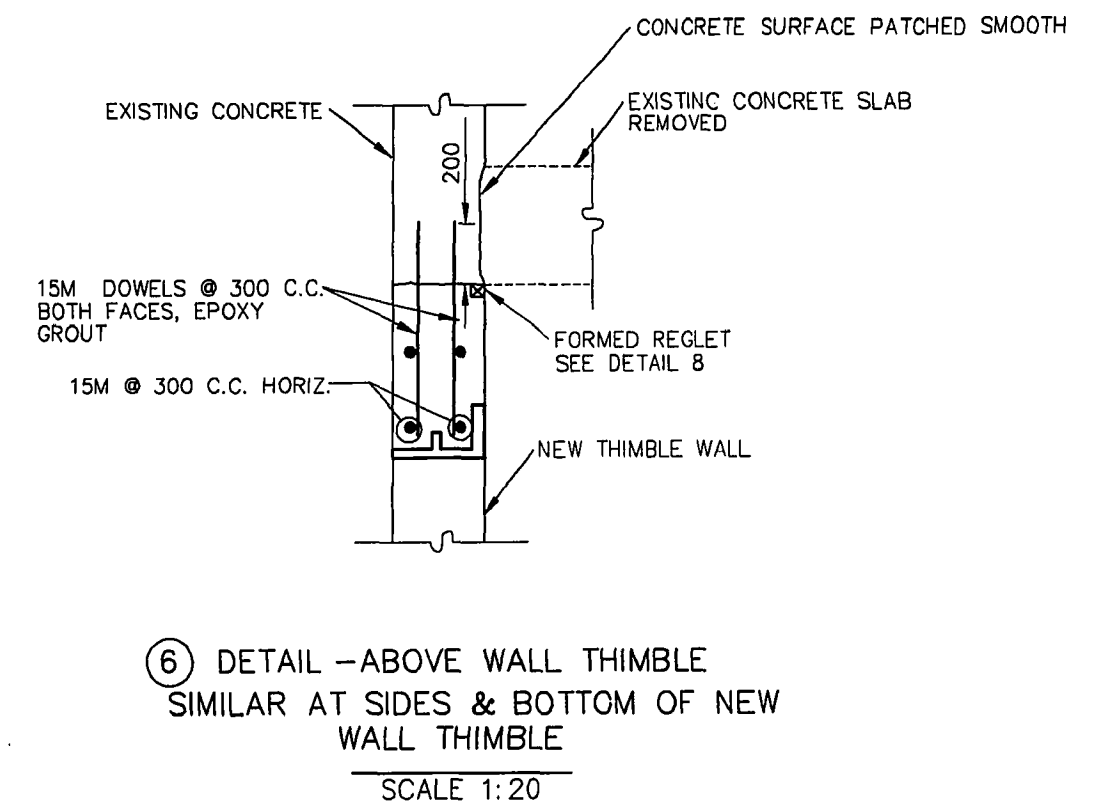
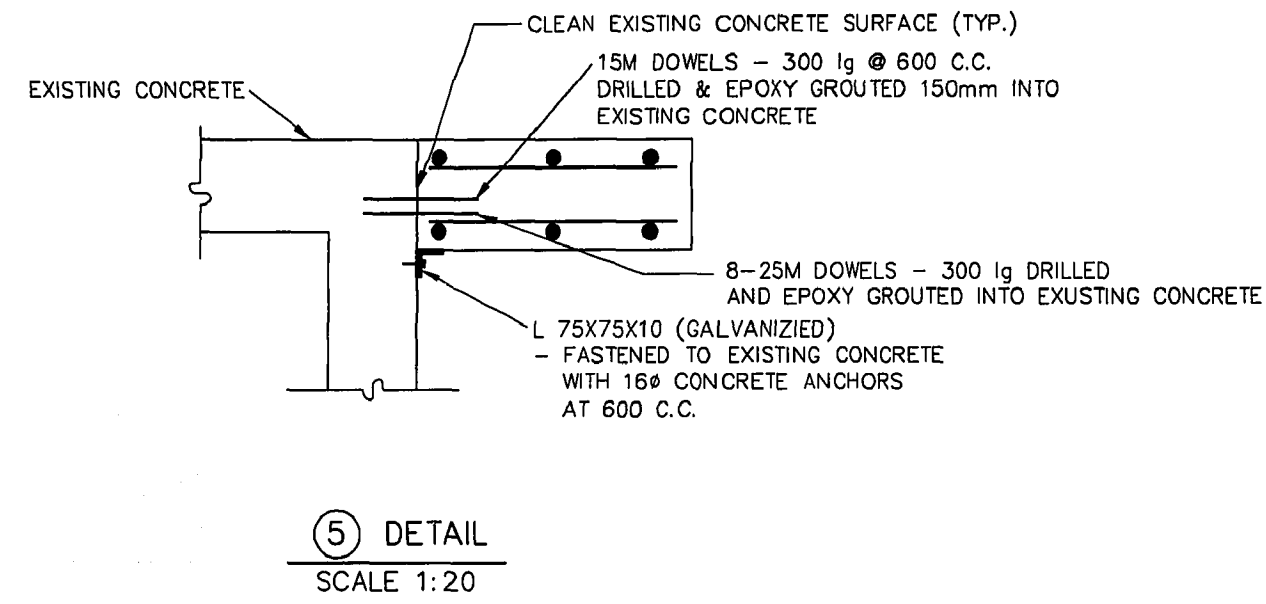
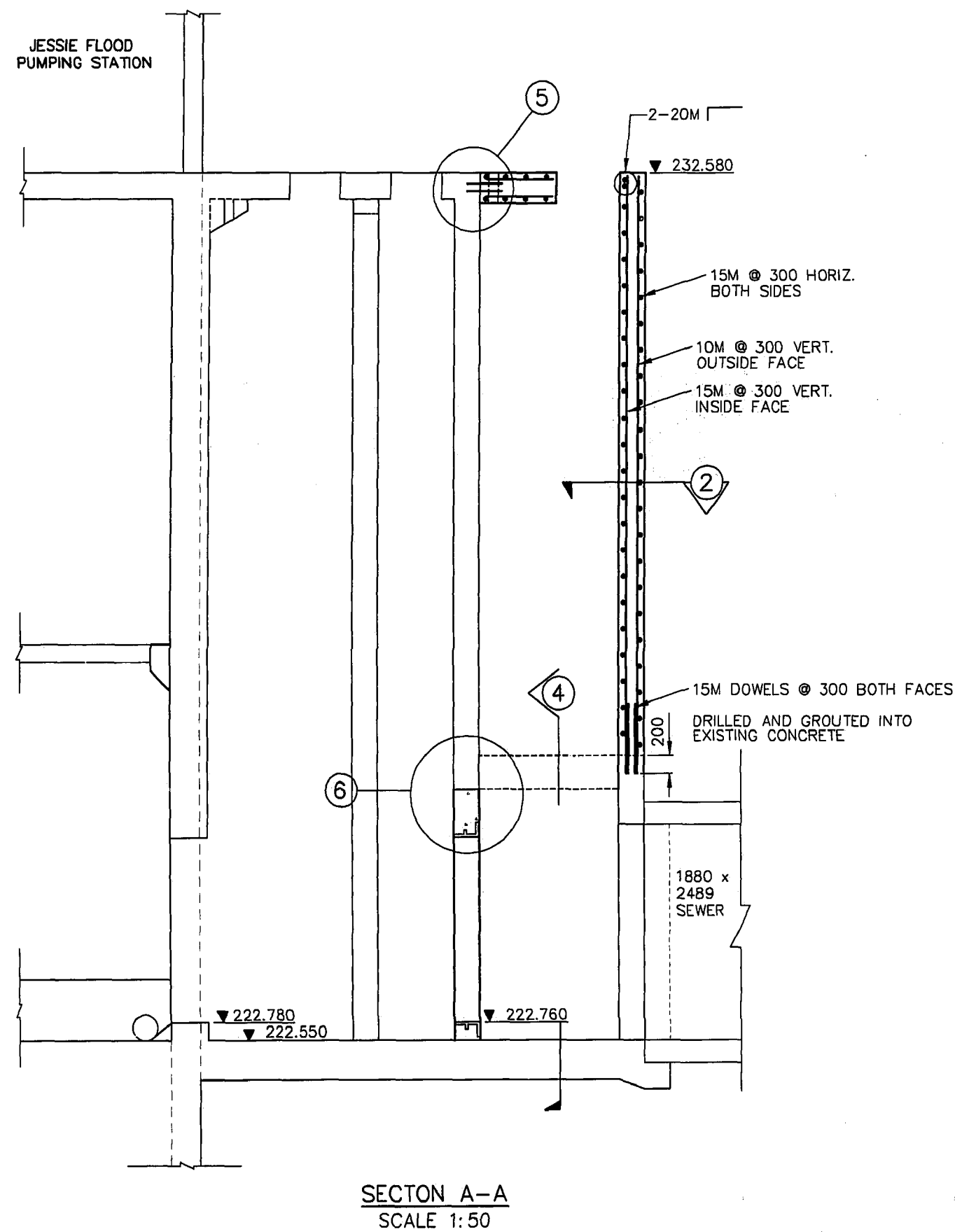
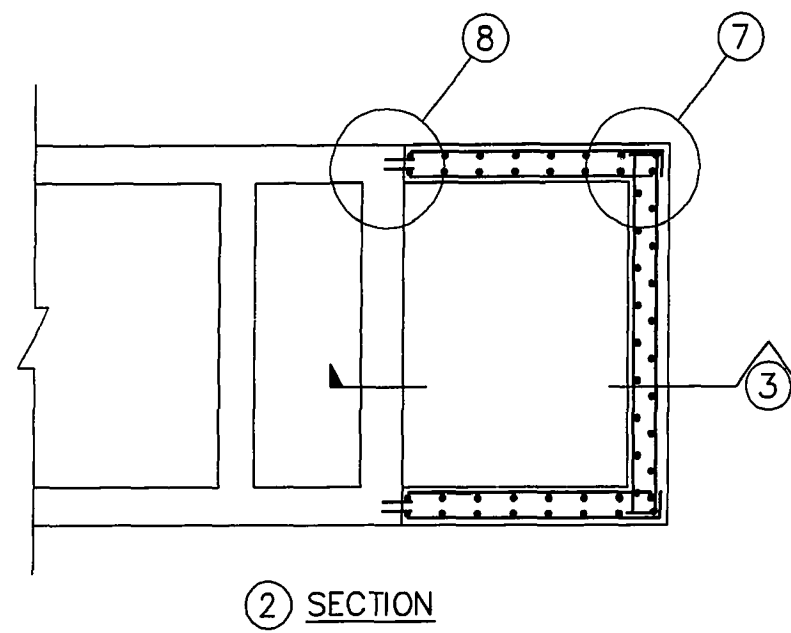
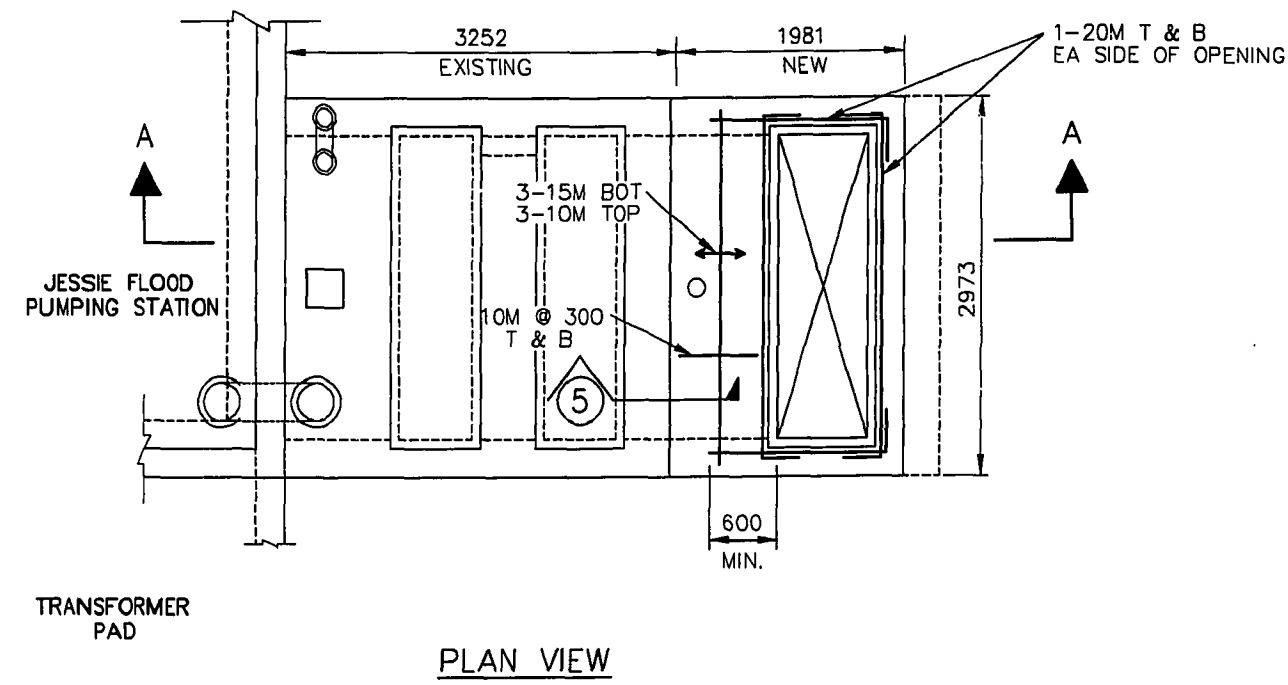


**THE CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT

JESSIE FLOOD PUMPING STATION  
**PLAN AND DETAILS**

SHEET 1 of 3  
 CITY DRAWING NUMBER  
 LD-1861

C:\URBANKINGS\LD-1861.dwg Mod Aug 11 09:41:59 1999



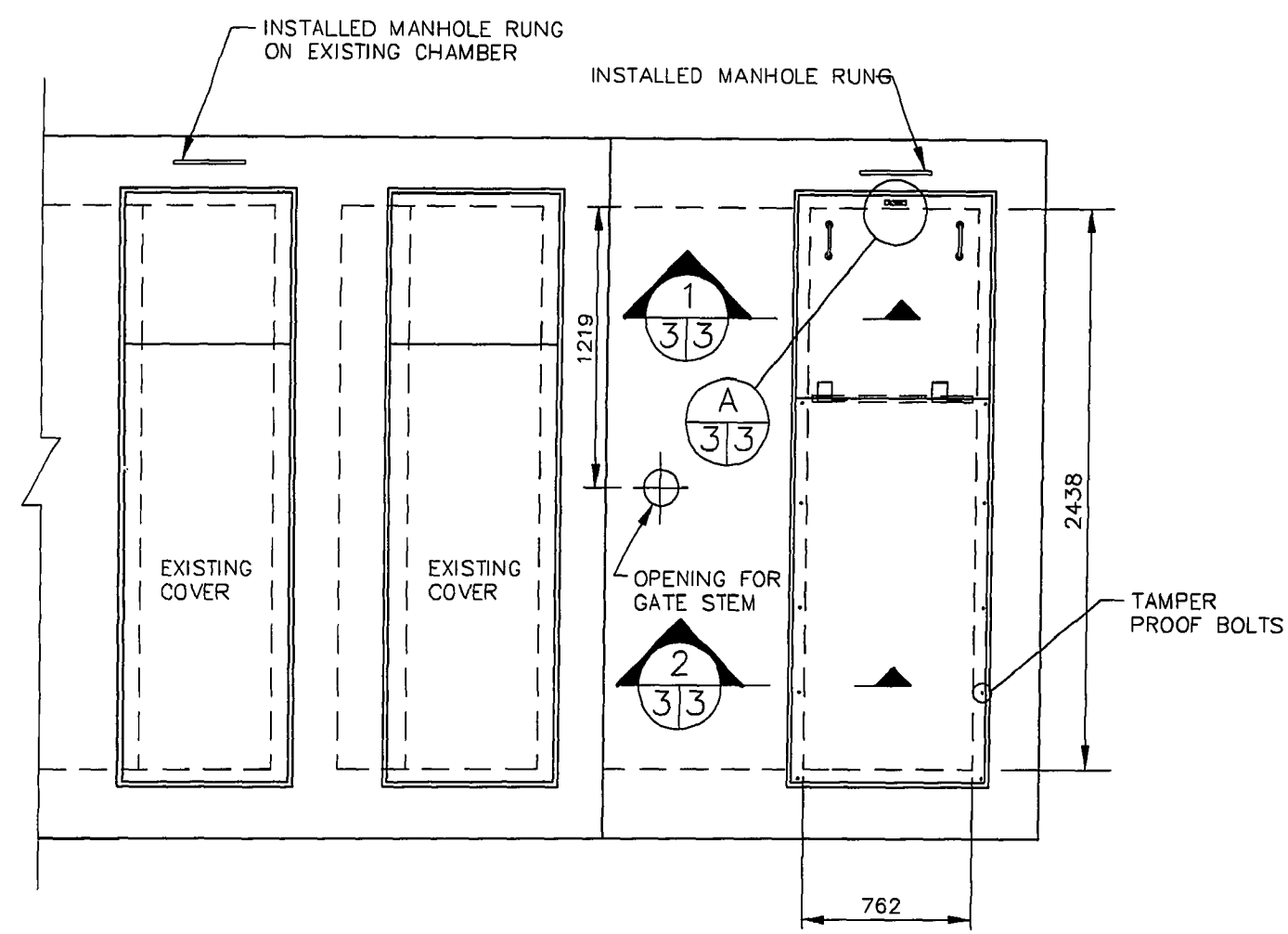
GENERAL NOTES

- 1). ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 30 MPa AT 28 DAYS AND CEMENT SHALL BE TYPE 50 SULPHATE RESISTANT.
- 2). REINFORCEMENT SHALL BE NEW DEFORMED BILLET STEEL BAR CONFORMING TO CSA G30.12M GRADE 400 MPa
- 3). UNLESS NOTED OTHERWISE CLEAR CONCRETE OVER REINFORCING STEEL SHALL BE:
  - CONCRETE CAST AGAINST EARTH 75 mm
  - ALL OTHER CONCRETE 50 mm

**AS-CONSTRUCTED**  
 CONTRACT ADMINISTRATION  
 DRAFTING & GRAPHIC SERVICES  
 WATER AND WASTE DEPARTMENT

**METRIC**  
 WHOLE NUMBERS INDICATE MILLIMETRES  
 DECIMALIZED NUMBERS INDICATE METRES

B.M. ELEV.	FIELD BOOK #	<b>CITY OF WINNIPEG WATER AND WASTE ENGINEERING DIVISION</b>		ENGINEER'S SEAL	<b>THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT</b>	
POSTED TO LBS		DESIGNED BY JE	CHECKED BY JE	Original Drawing Stamped & Signed by D.H. Robbins P. Eng Nov. 3/98	JESSIE FLOOD PUMPING STATION SHEET 2 OF 3	
		DRAWN BY MBD	APPROVED BY WDW		CITY DRAWING NUMBER	
		HOR. SCALE AS NOTED	RELEASED FOR CONSTRUCTION		LD-1862	
1	REVISED TO AS-BUILT	98.08.05	MTZ	VERTICAL	DATE NOVEMBER 03, 1998	DATE 02/14/98
NO.	REVISIONS	DATE	BY	DATE	BY	DATE



ROOF ACCESS PLAN

SCALE 1:25

892 X 1648 X 9 ALUMINUM TREAD PLATE HATCH COVER REINFORCED WITH L50X50X6 WELDED TO PLATE AND BOLTED TO ALUMINUM FRAME

892 X 920 X 9 ALUMINUM TREAD PLATE HATCH COVER C/W HASP FOR LOCK

HANDLE (TYP.)

550 (TYP.)

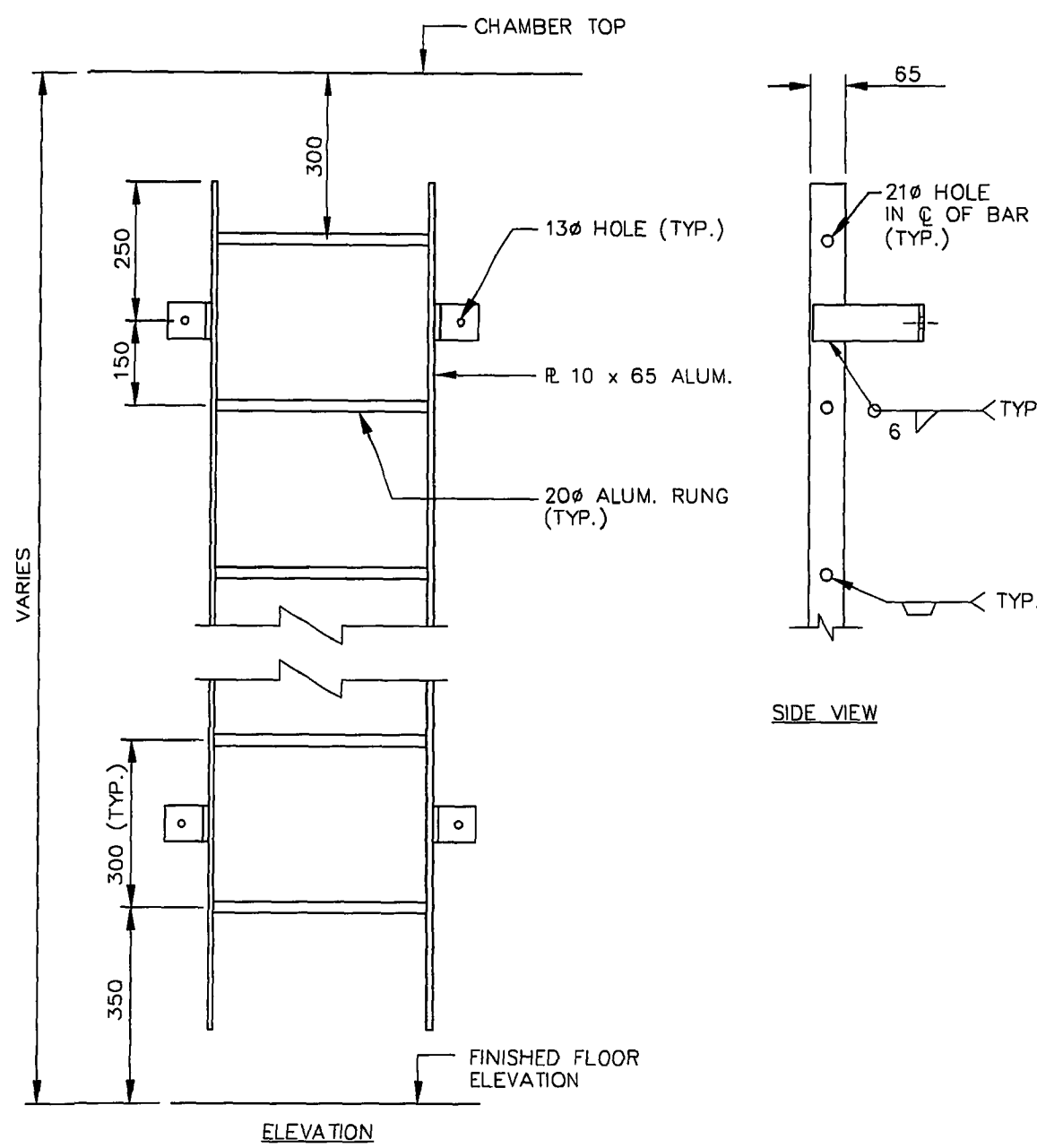
1648

920

892

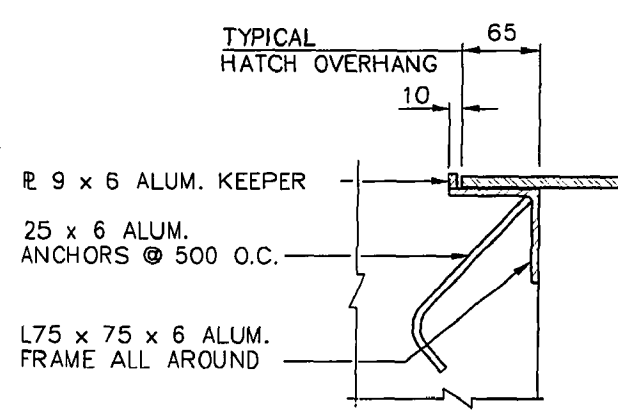
ACCESS HATCH DETAIL

SCALE 1:15

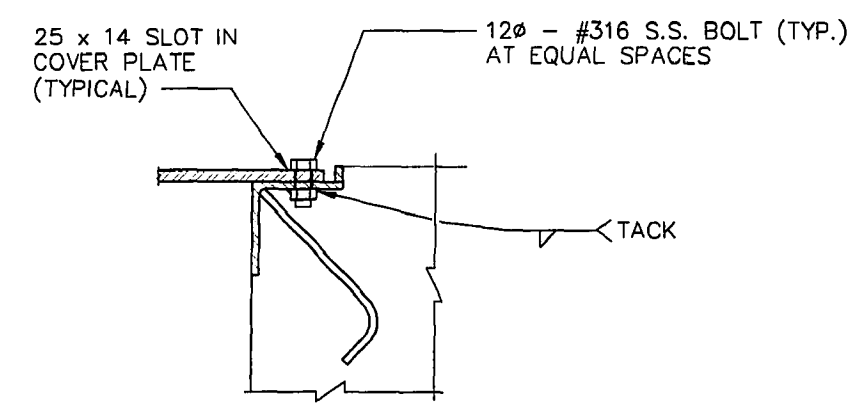


ELEVATION

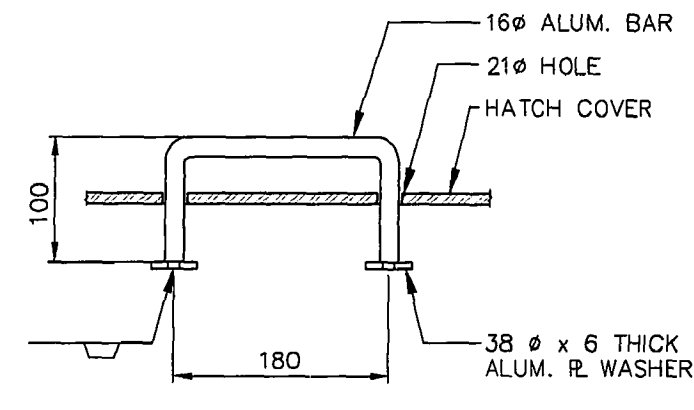
SIDE VIEW



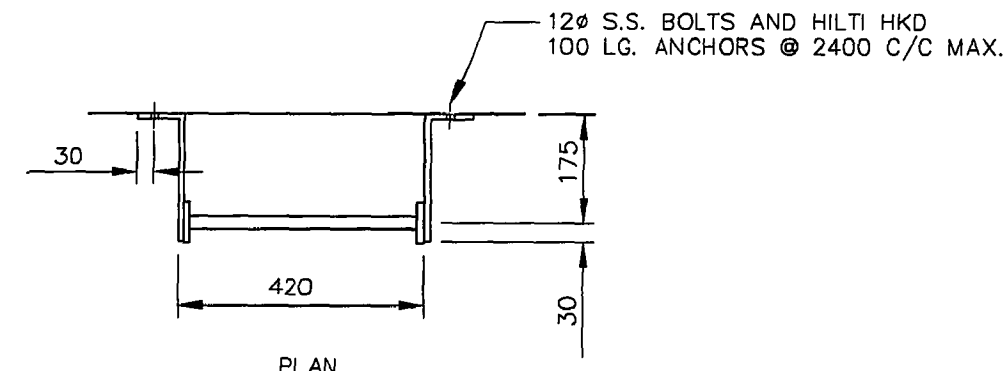
SECTION 1  
SCALE 1:5



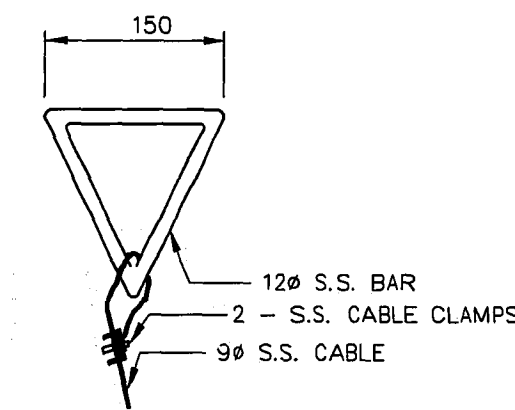
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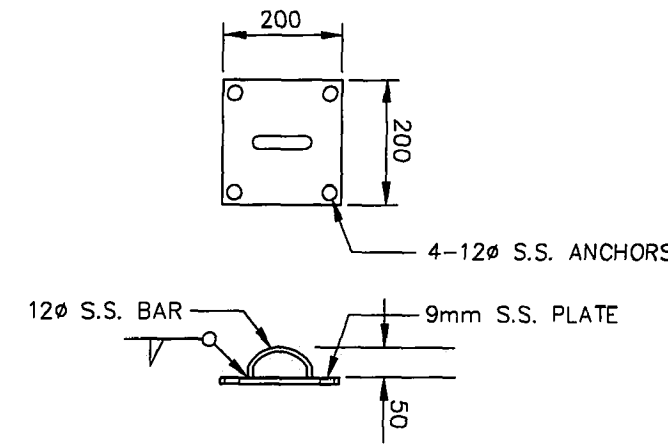
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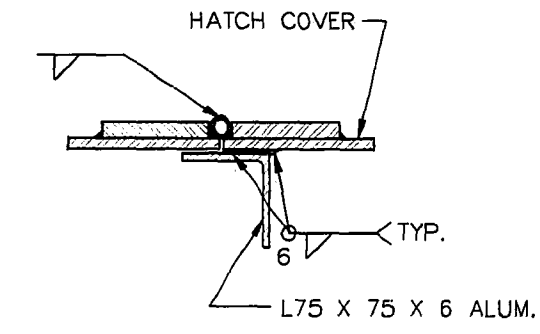
LADDER DETAIL  
SCALE 1:10



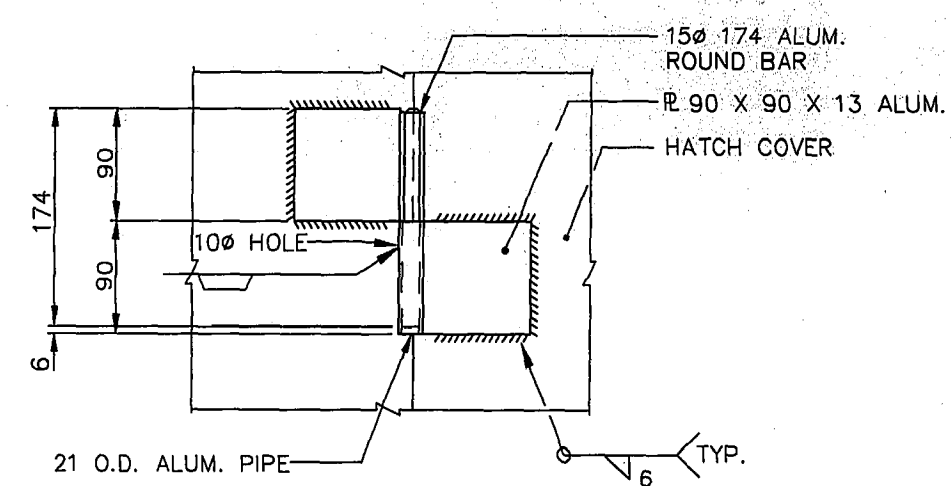
DETAIL 10  
SCALE 1:5



DETAIL 7  
SCALE 1:10

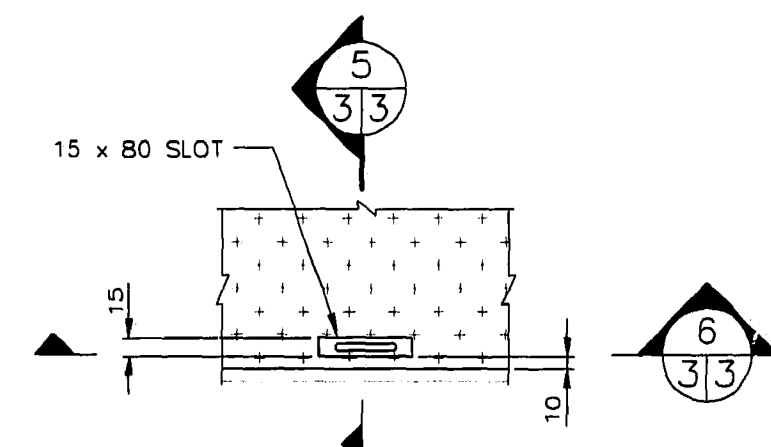


SECTION 3  
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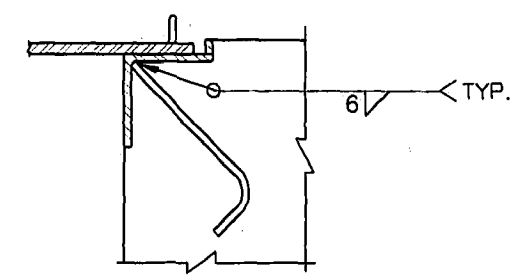


SECTION B  
SCALE 1:5

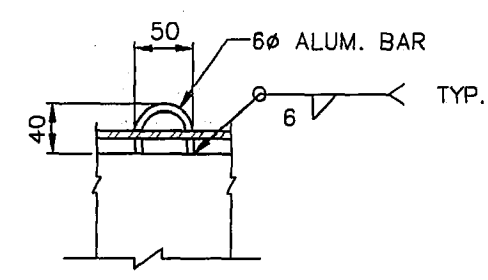
NOTE: HINGE VIEW FROM TOP



DETAIL A  
SCALE 1:5



SECTION 5  
SCALE 1:5



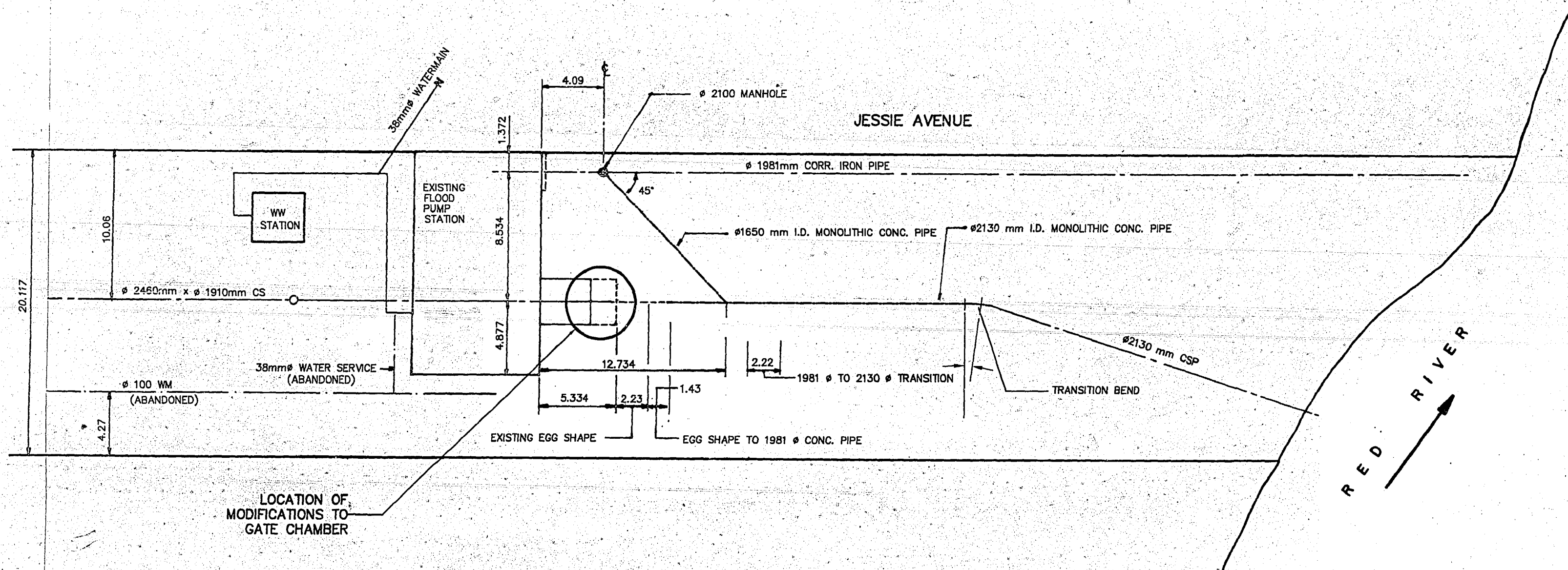
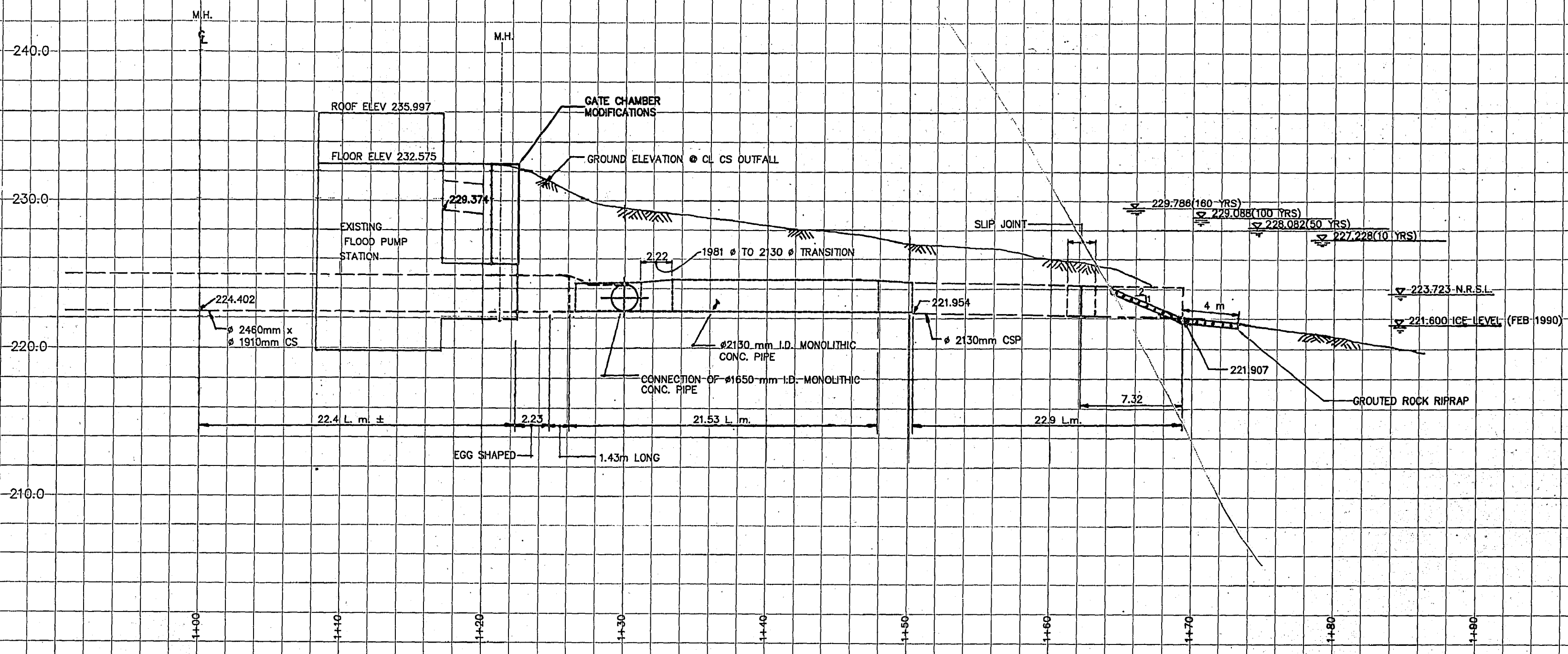
SECTION 6  
SCALE 1:5

NOTES:

- ALL ALUMINUM CONFORMS TO THE ALUMINUM ASSOCIATION "SPECIFICATIONS FOR ALUMINUM STRUCTURES" - LATEST ADDITION. ALUMINUM FOR PLATES TYPE 5086
- ALL ALUMINUM IN CONTACT WITH CONCRETE OR CAST INTO CONCRETE TO HAVE BITUMINOUS ISOLATION COATING.
- ALL NUTS, BOLTS AND ANCHORS CONFORM TO ASTM A276 TYPE # 316 STAINLESS STEEL.
- SHOP DRAWINGS FOR ACCESS HATCH AND RELATED ITEMS SUBMITTED AT LEAST 14 DAYS BEFORE FABRICATION.

**AS-CONSTRUCTED**  
*Robina S. [Signature]* 22/03/03  
 CONTRACT ADMINISTRATION DRAFTING & GRAPHIC SERVICES DATE  
 WATER AND WASTE DEPARTMENT

B.M. ELEV.	<b>CITY OF WINNIPEG WATER AND WASTE ENGINEERING DIVISION</b>		ENGINEER'S SEAL 	<b>THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT</b>	
	DESIGNED BY JE	CHECKED BY JE	 REGISTERED ENGINEER	JESSIE FLOOD PUMPING STATION SHEET 3 OF 3	
	DRAWN BY TM	APPROVED BY WDW		MISCELLANEOUS METAL DETAILS LD-1863	
	HOR. SCALE AS NOTED		RELEASED FOR CONSTRUCTION		
1 REVISED TO AS-BUILT 99.08.05 MTZ	DATE NOVEMBER 03, 1998		DATE 22/03/03		



**AS-CONSTRUCTED**

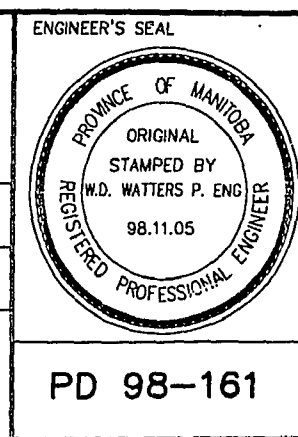
CONTRACT ADMINISTRATION      DRAFTING & GRAPHIC SERVICES      DATE  
 WATER AND WASTE DEPARTMENT

METRIC  
 WHOLE NUMBERS INDICATE MILLIMETRES  
 DECIMALIZED NUMBERS INDICATE METRES

B.M. ELEV.	FIELD BOOK #:
POSTED TO LBS	
DESIGNED BY	JE
CHECKED BY	JE
DRAWN BY	CAT
APPROVED BY	WDW
HOR. SCALE	1:200
VERTICAL SCALE	1:200
NO. REVISIONS	DATE BY
1	AS-CONSTRUCTED 00.11.20 GMZ
	DATE 98-10-28

**CITY OF WINNIPEG  
 WATER AND WASTE  
 ENGINEERING DIVISION**

DESIGNED BY: JE  
 CHECKED BY: JE  
 DRAWN BY: CAT  
 APPROVED BY: WDW  
 HOR. SCALE: 1:200  
 VERTICAL SCALE: 1:200  
 RELEASED FOR CONSTRUCTION



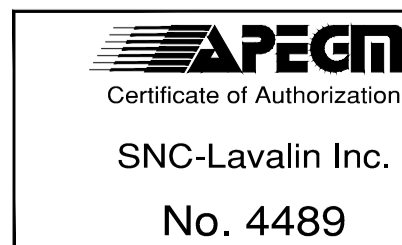
**THE CITY OF WINNIPEG  
 WATER AND WASTE DEPARTMENT**

**JESSIE AVENUE  
 FLOOD PUMPING STATION  
 SITE PLAN**

ENGINEER'S SEAL: PD 98-161

SHEET 1 OF 4  
 CITY DRAWING NUMBER: LD-1876

1-04YYA-F-E0001	ELECTRICAL SERVICE ENTRANCE AND DISTRIBUTION DETAILS
DRAWING NUMBER	REFERENCE DRAWINGS

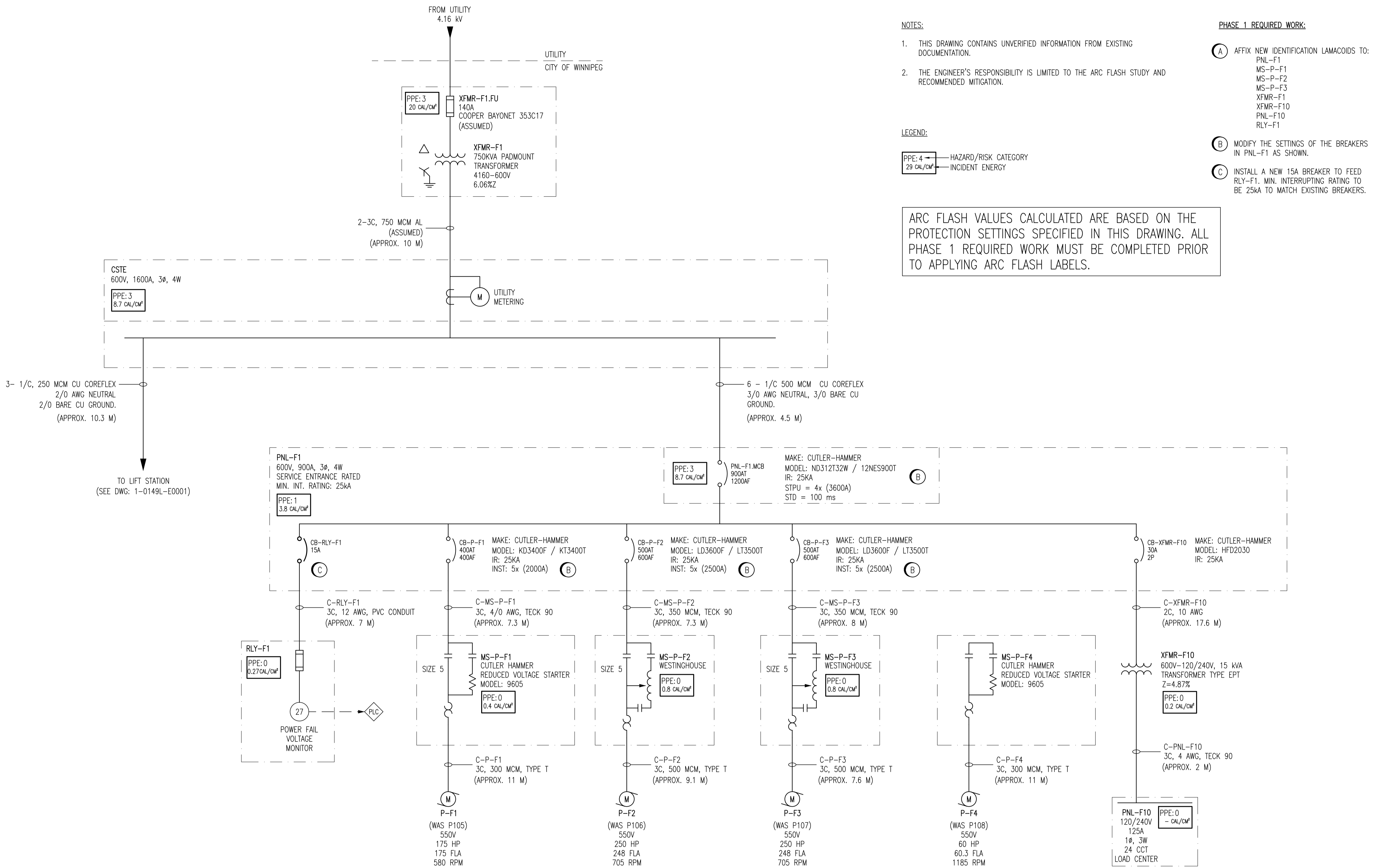


NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR CITY USE	2011/11/23	BC	CJR

 SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	
DESIGNED BY: A. SMALUCK/B. CLEVEN	CHECKED BY: C. REIMER
DRAWN BY: S. COATES	APPROVED BY: C. REIMER
SCALE: NTS	RELEASED FOR CONSTRUCTION BY: C. REIMER
DATE: 2009/09/11	DATE:
CONSULTANT NO.:	

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

 THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT	
JESSIE FLOOD PUMPING STATION ARC FLASH STUDY SINGLE LINE DIAGRAM	
CITY DRAWING NUMBER 1-0149F-E0001	SHEET REV. SIZE 001 00 A1



**NOTES:**

- THIS DRAWING CONTAINS UNVERIFIED INFORMATION FROM EXISTING DOCUMENTATION.
- THE ENGINEER'S RESPONSIBILITY IS LIMITED TO THE ARC FLASH STUDY AND RECOMMENDED MITIGATION.

**LEGEND:**

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

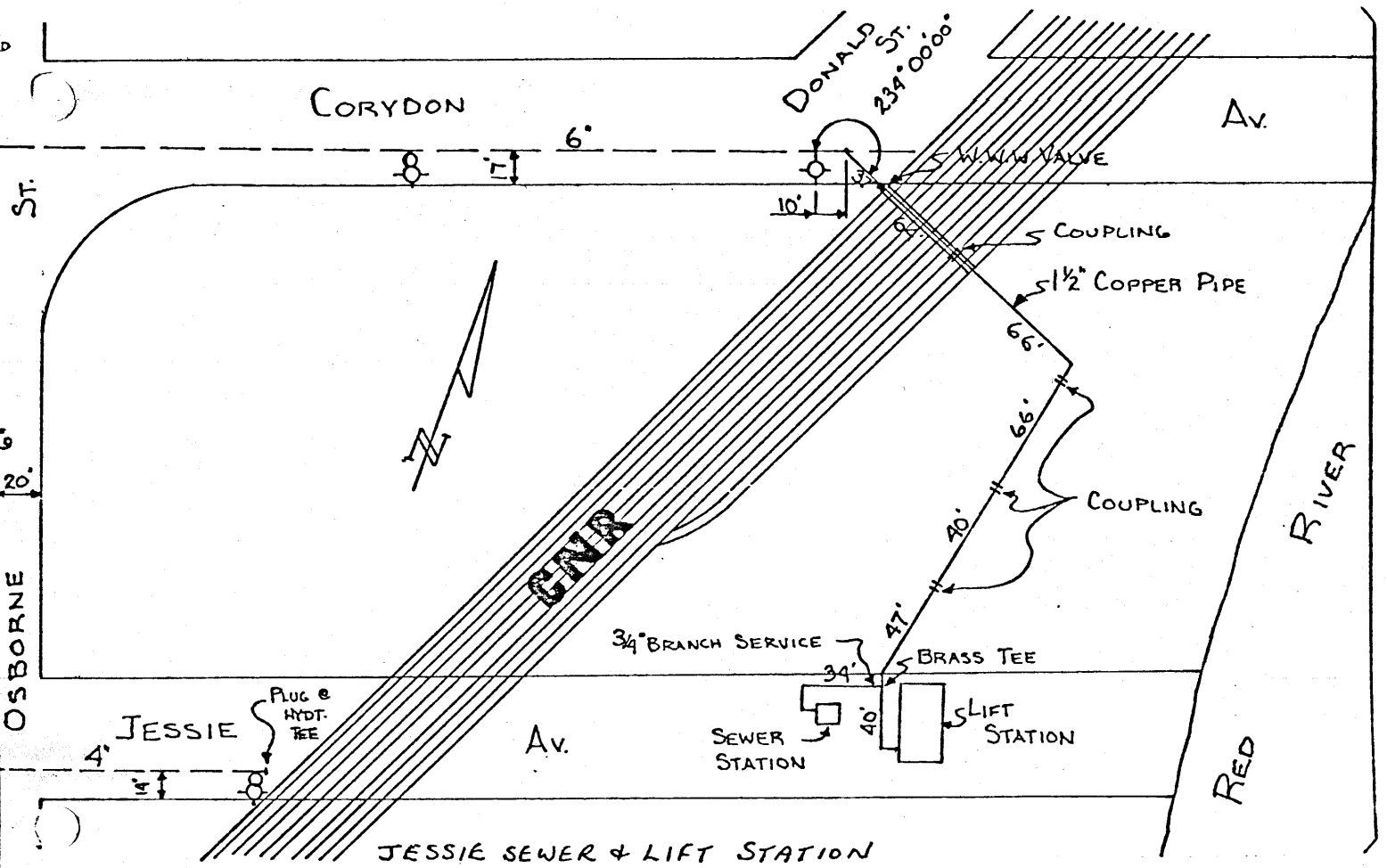
ARC FLASH VALUES CALCULATED ARE BASED ON THE PROTECTION SETTINGS SPECIFIED IN THIS DRAWING. ALL PHASE 1 REQUIRED WORK MUST BE COMPLETED PRIOR TO APPLYING ARC FLASH LABELS.

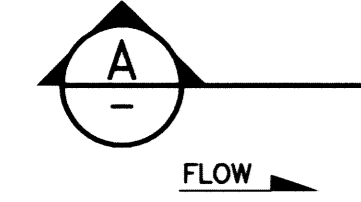
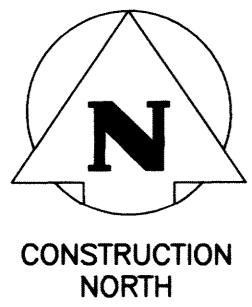
**PHASE 1 REQUIRED WORK:**

- AFFIX NEW IDENTIFICATION LAMACOIDS TO:  
 PNL-F1  
 MS-P-F1  
 MS-P-F2  
 MS-P-F3  
 XFMR-F1  
 XFMR-F10  
 PNL-F10  
 RLY-F1
- MODIFY THE SETTINGS OF THE BREAKERS IN PNL-F1 AS SHOWN.
- INSTALL A NEW 15A BREAKER TO FEED RLY-F1. MIN. INTERRUPTING RATING TO BE 25KA TO MATCH EXISTING BREAKERS.

FOR REFERENCE ONLY



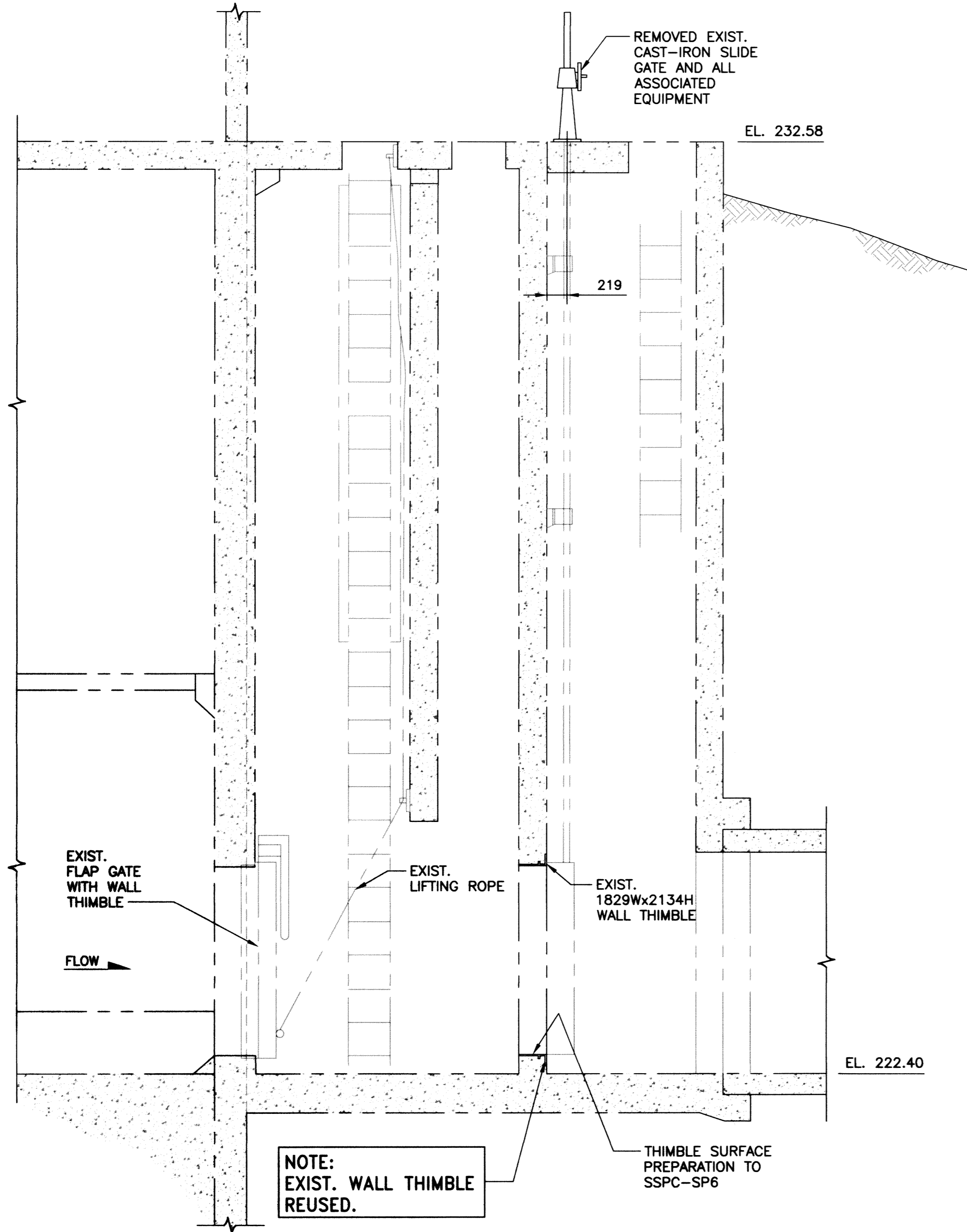




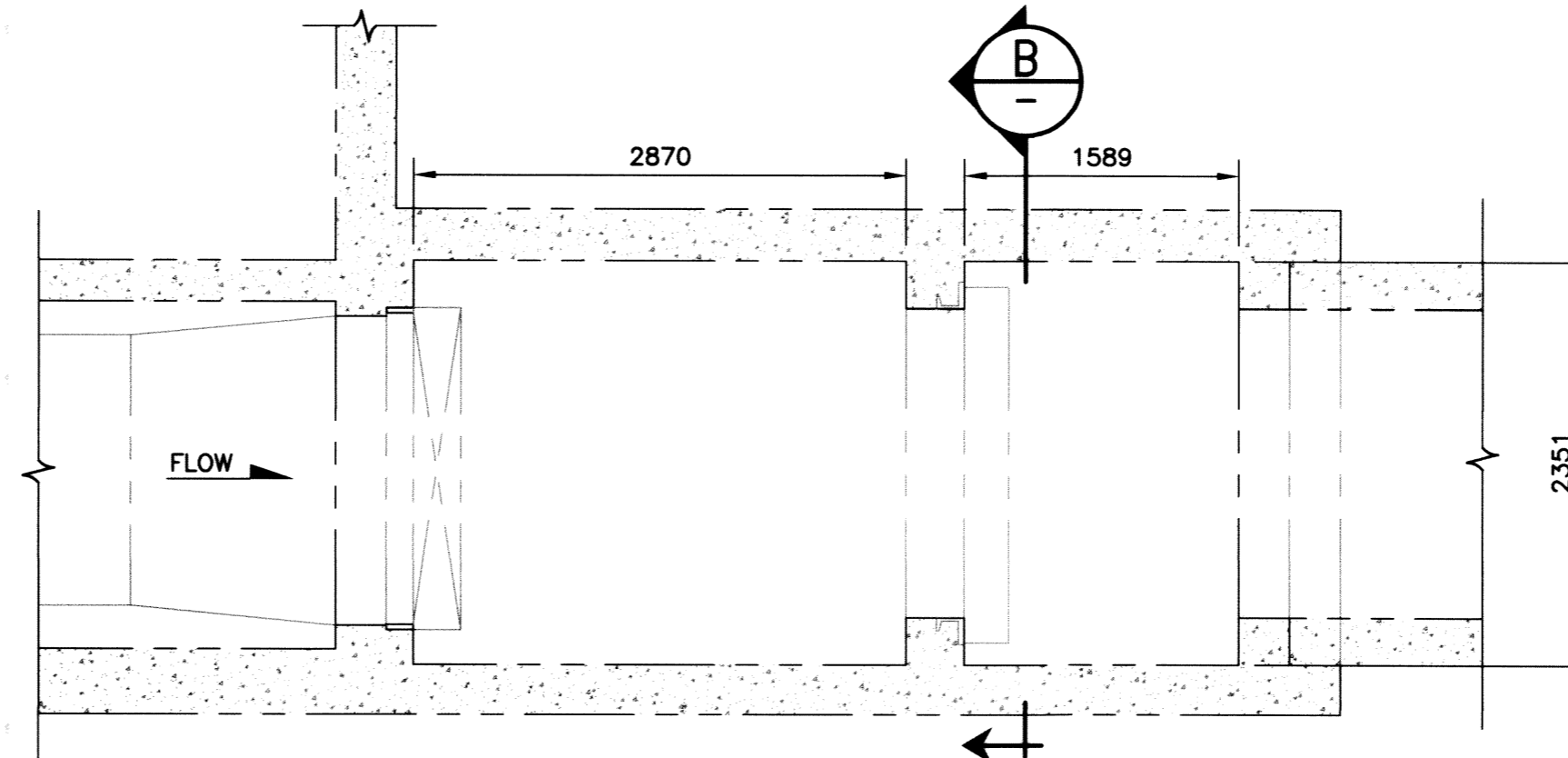
TRANSFORMER PAD

**PLAN - EL. 232.58**

SCALE: 1:40

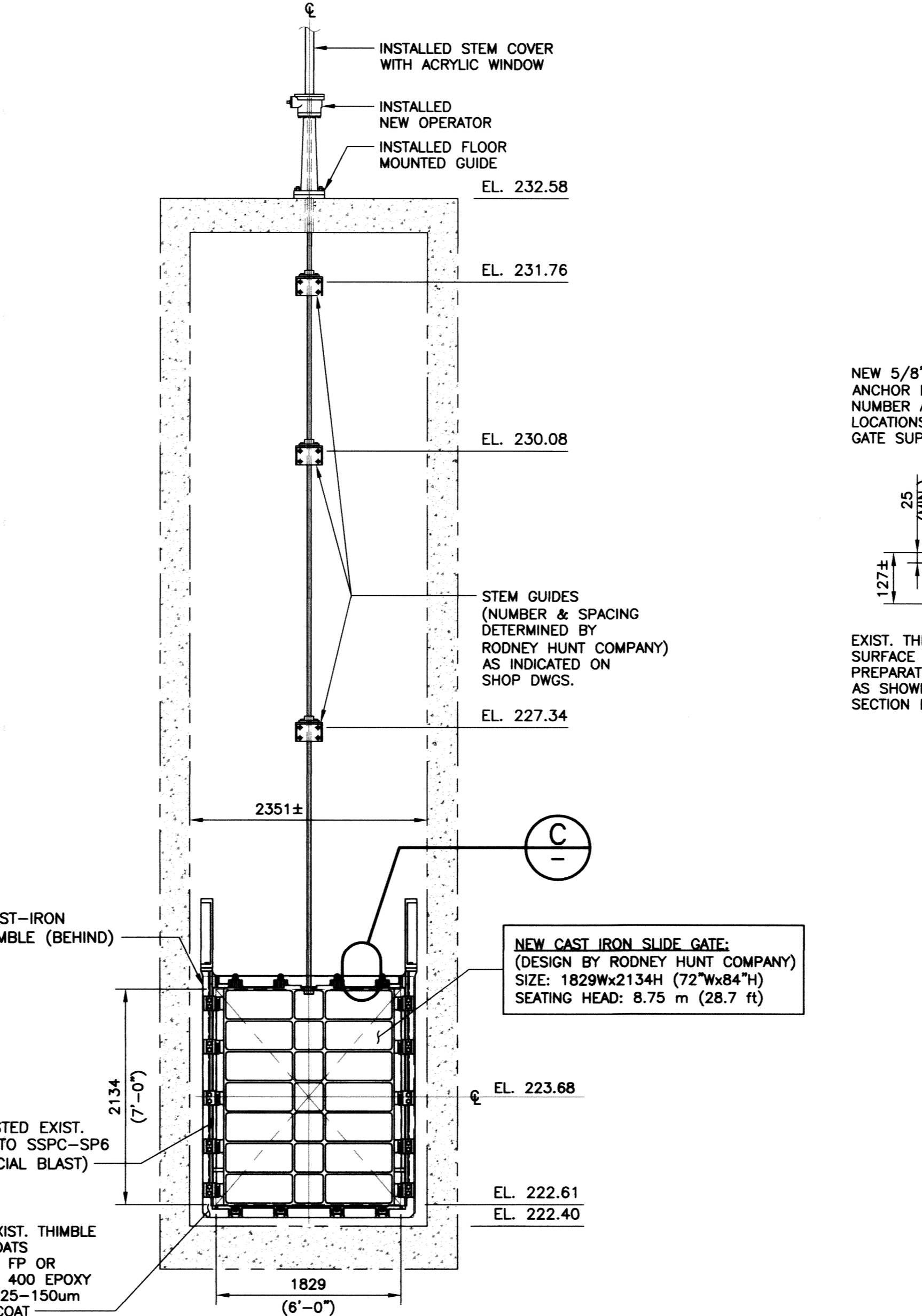


**A SECTION**  
SCALE: 1:40

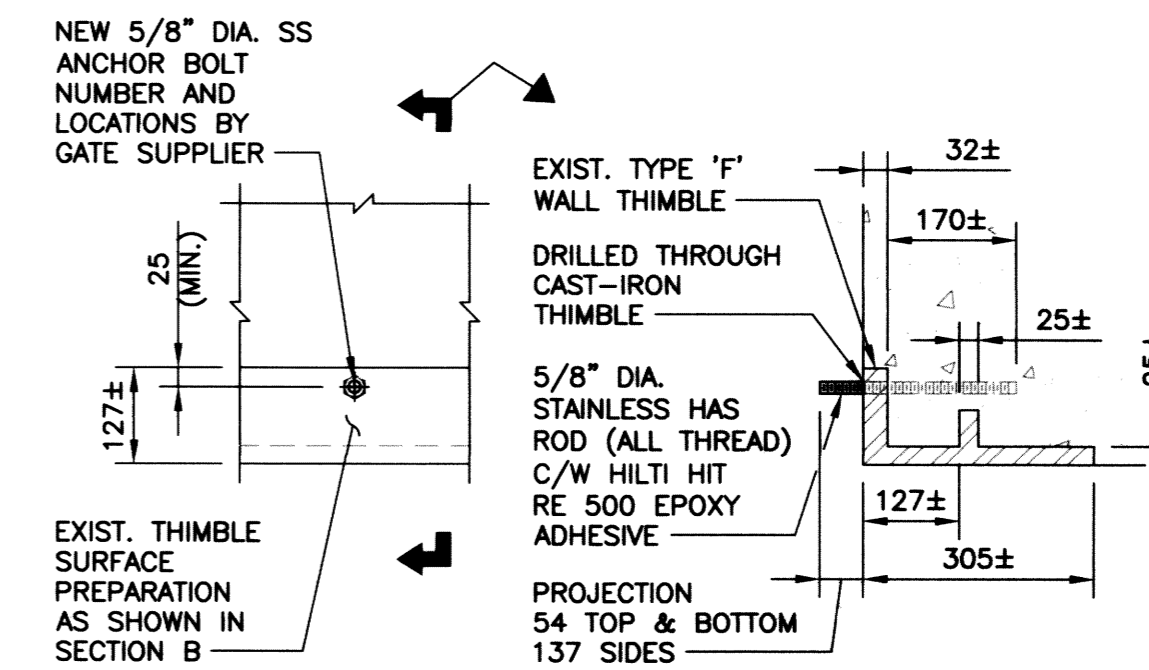


**PLAN - EL. 222.55**

SCALE: 1:40

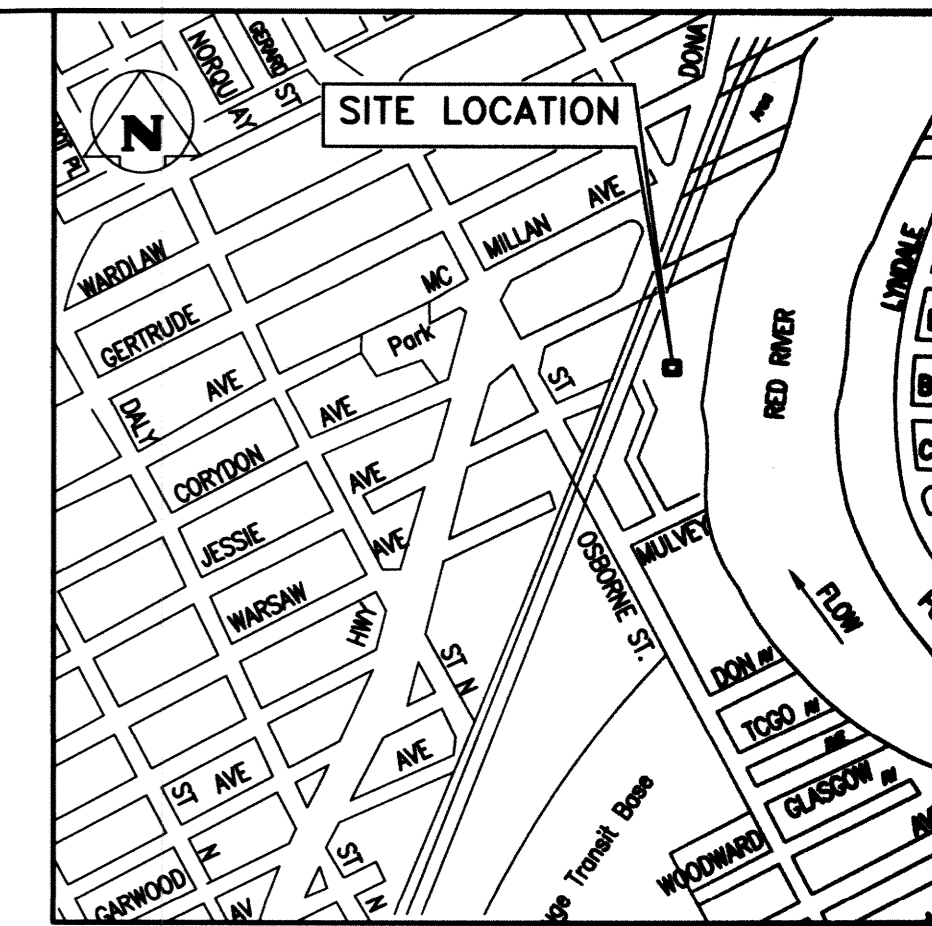


**B SECTION**  
SCALE: 1:40



(TYPICAL ANCHOR BOLT DETAIL—TOP AND BOTTOM)

**C DETAIL**  
SCALE: 1:10



**SITE PLAN**  
N.T.S.

NOTE:  
SITE ACCESS FROM MULVEY AVE.



SCALE: 1:40 METRIC (A1)  
1:80 METRIC (A3)



SCALE: 1:10 METRIC (A1)  
1:20 METRIC (A3)

**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

**RECORD DRAWING**  
WATER & WASTE DEPARTMENT

PROJECT COMPLETION DATE : 7 MAY 13  
CONTRACTOR : TRI-CORE PROJECTS MANITOBA LTD.



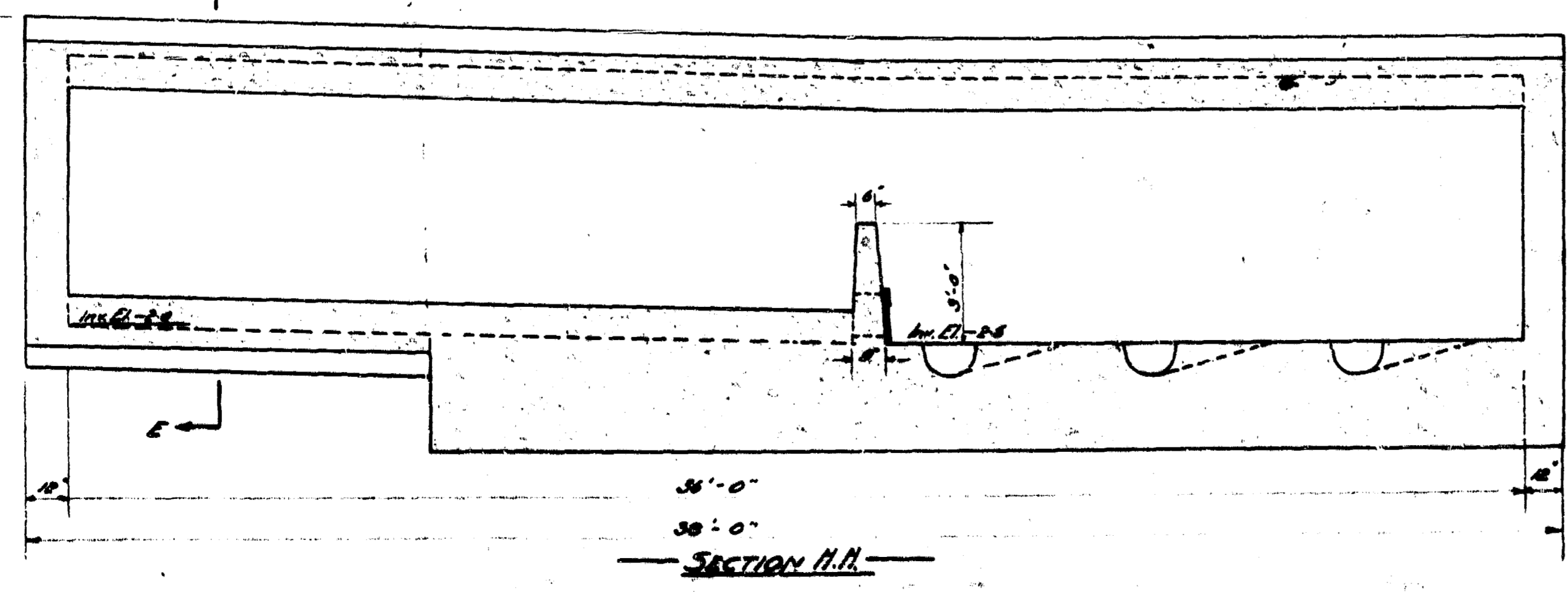
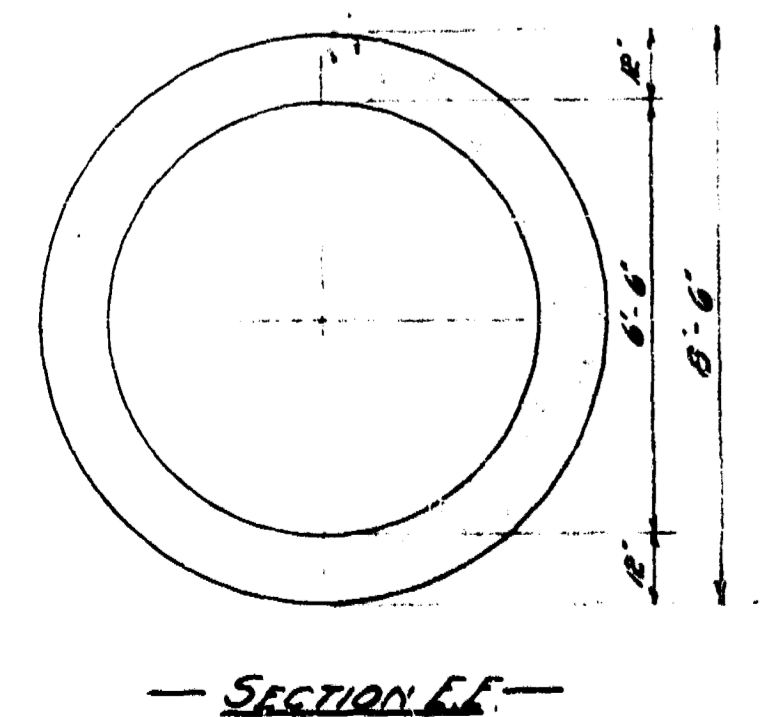
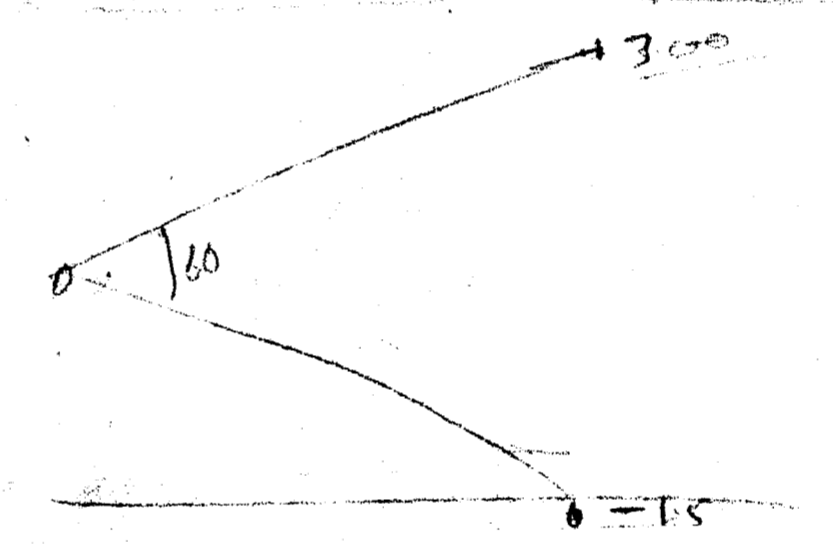
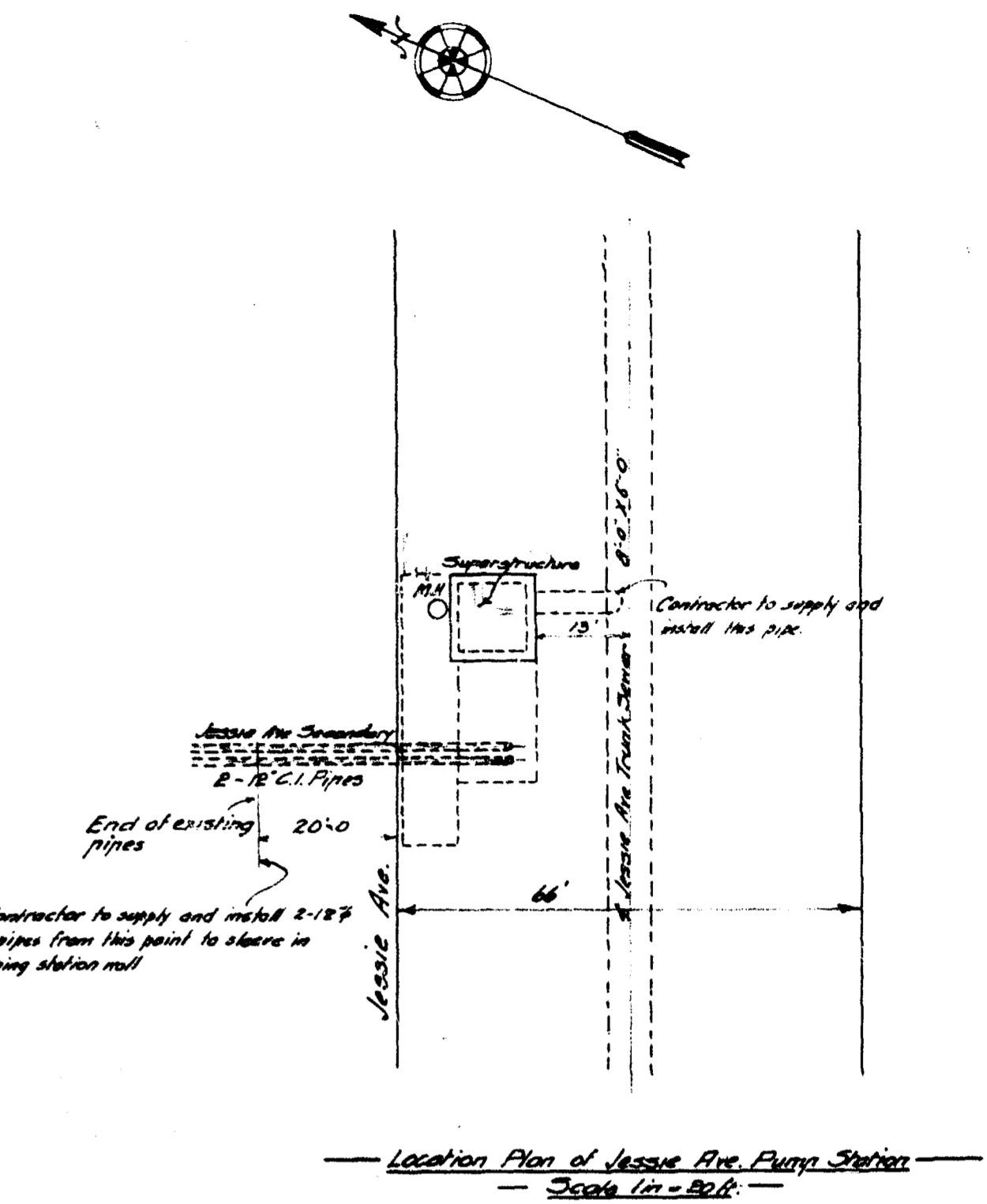
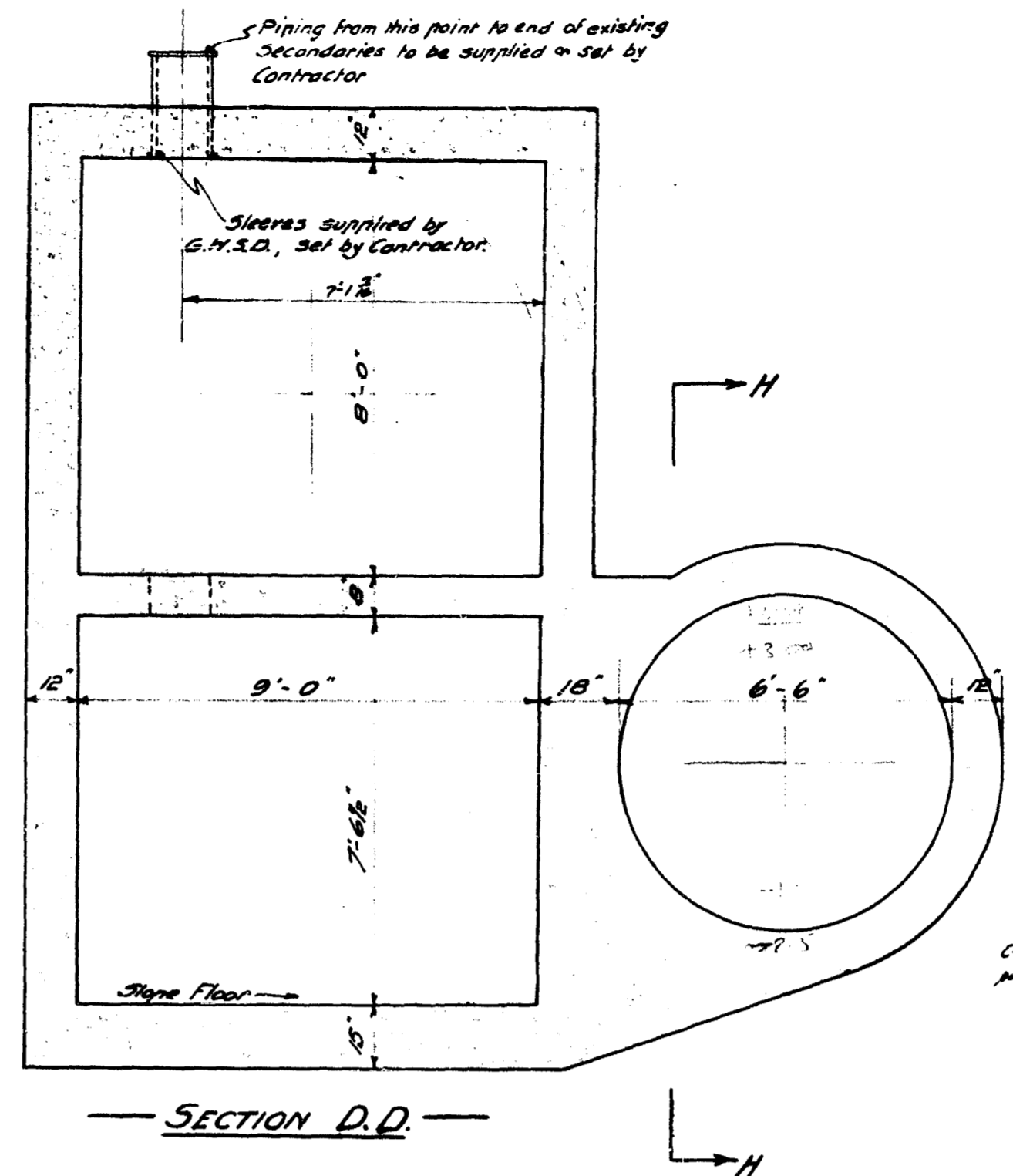
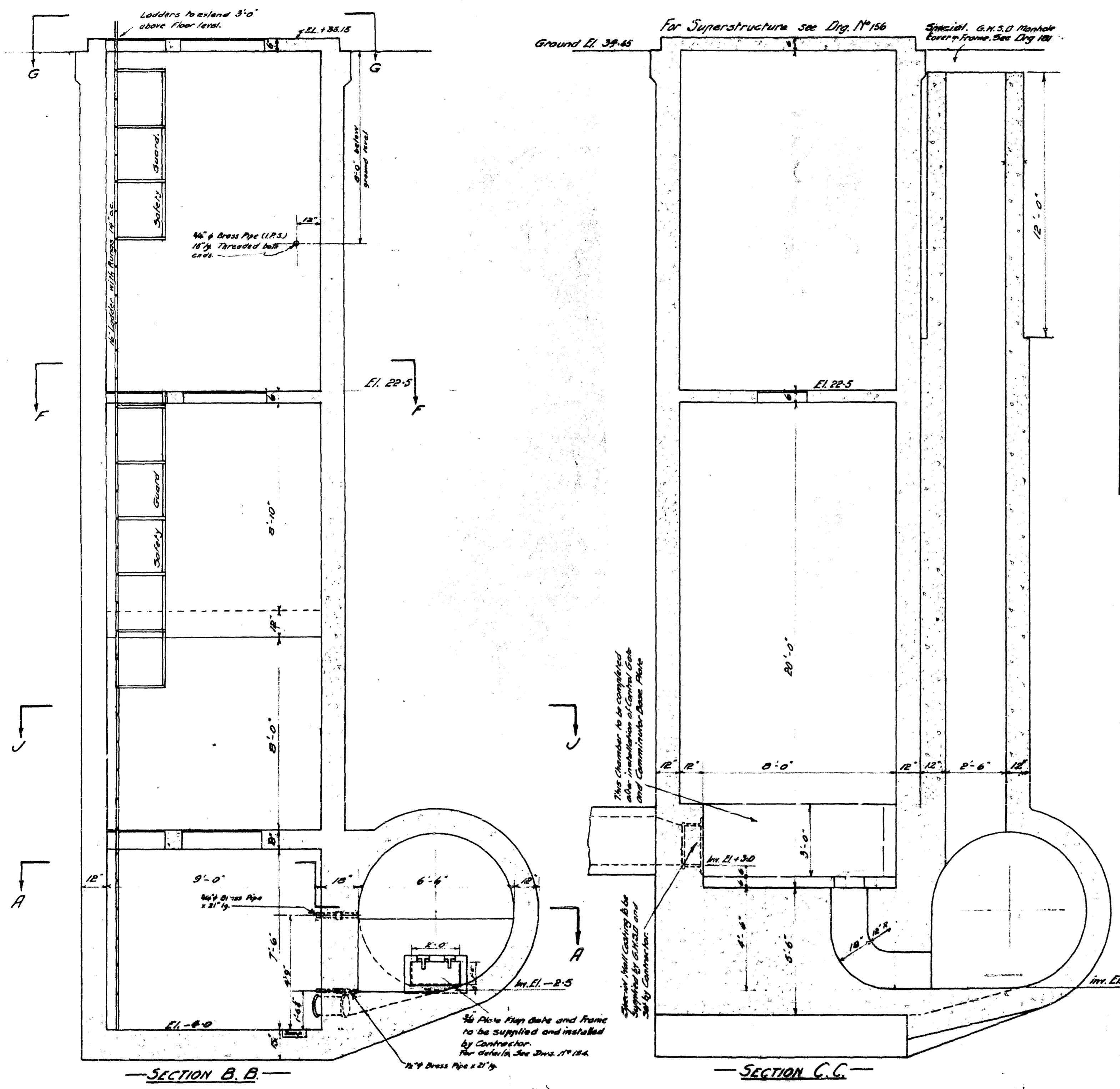
NO.	REVISIONS	DATE	BY
1	RECORD DRAWING	2013-07-11	CMS
0	ISSUED FOR CONSTRUCTION	2011-03-01	CMS

DESIGNED BY	KRD	CHECKED BY	CMS
DRAWN BY	FBV	APPROVED BY	
HOR. SCALE		RELEASED FOR CONSTRUCTION	
VERTICAL			
DATE	2011-03-01	DATE	

ENGINEER'S SEAL  
  
 TENDER No. 1-0149F-S0001-001-Rev 1.dwg  
 PLOT DATE: 2013/07/11

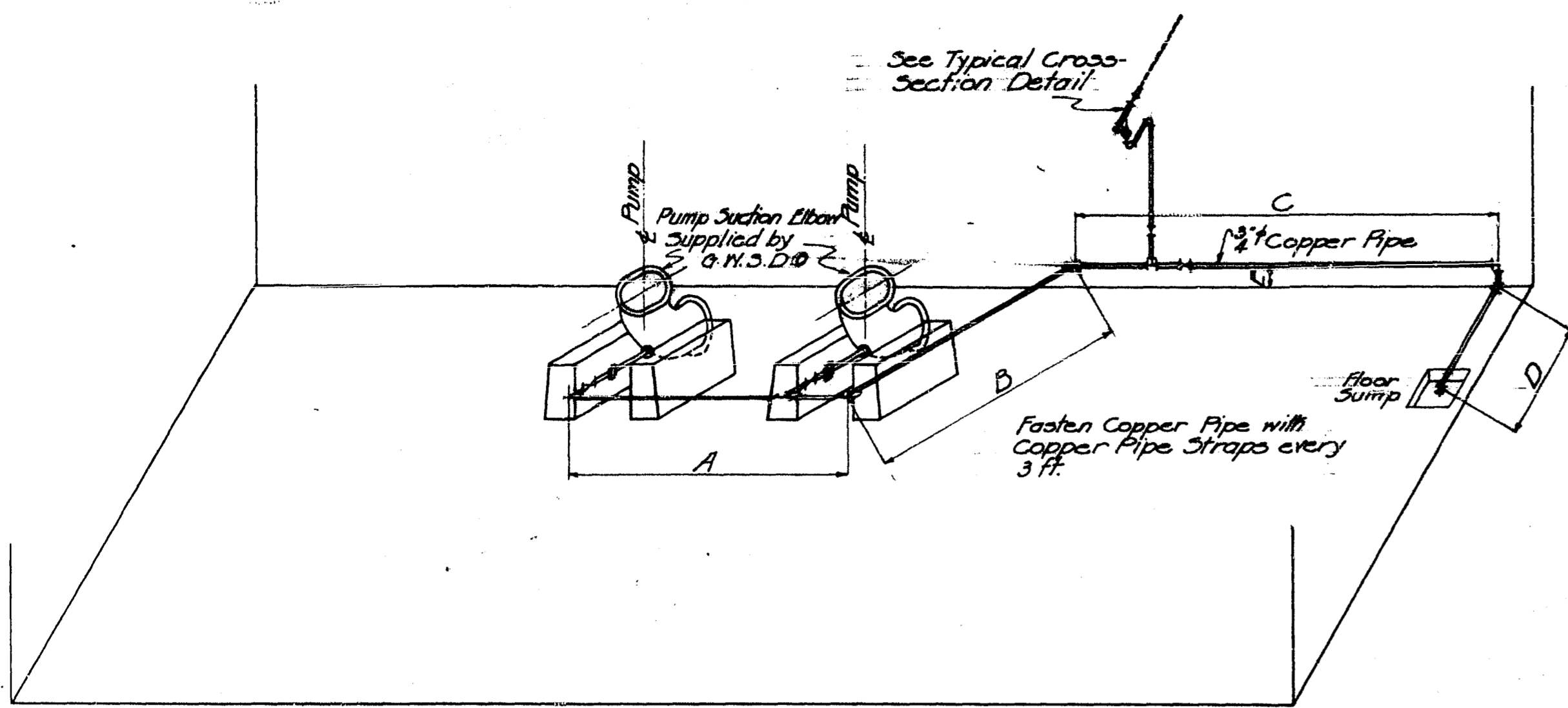
**THE CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT  
 JESSIE FLOOD PUMPING STATION  
 SLIDE GATE REFURBISHMENT  
**STRUCTURAL**  
 PLAN, SECTIONS & DETAILS  
 SHEET 1 OF 1  
 CITY DRAWING NUMBER  
 1-0149F-S0001-001

File Name: \\k-file-4\p-data\Projects\2010\10-0107-19\DocControl\ToBeIssued\DWG\1-0149F-S0001-001-Rev 1.dwg - Tab: S4 Plotted By: Deroche 07/11/2013 [Thu 1:35pm]

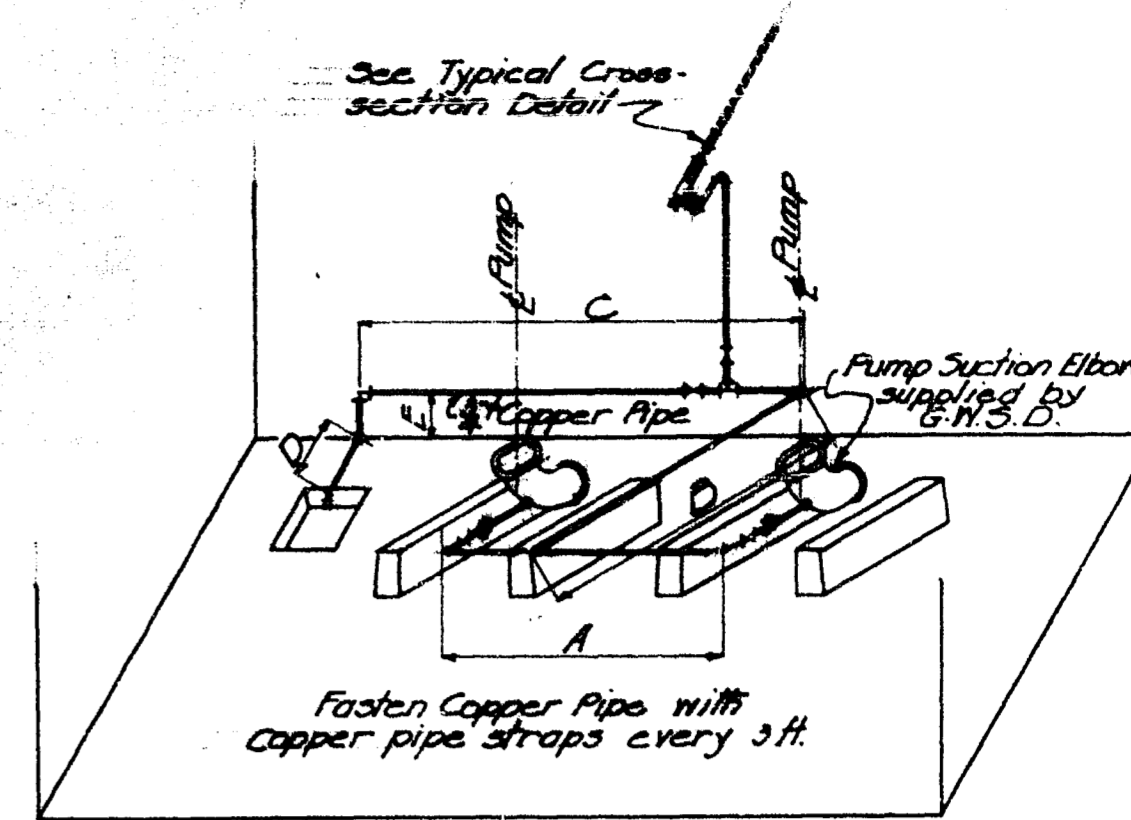


Note: Material to be supplied and installed by Contractor where shown or located as directed by Engineer.  
 Ladders - Sides 2 1/2" x 1 1/2" x 10' apart. Rungs 3/4" x 4" x 10' o.c.  
 Safety Guard - 1 1/2" x 3/4" - See Dry. No. 154 for detail.  
 Grating to support 200 lbs per sq. ft. live load.  
 Eye-balls (2) - 3/4" galvanized with 1/2" washers.  
 Control Valve connections - 3-1/2" (I.P.S.) 21" long brass pipe. See Dry. No. 154  
 Water Pipe connection - 1 1/2" (I.P.S.) 10' long brass pipe, threaded 2 ends.  
 Reinforcing steel - Sizes & spacing to be given later by Engineer.  
 All 10' sections not on this sheet to Dry. No. 154.  
 For details of Superstructure to Dry. No. 156.  
 For details of Special 30" x 30" Cover to Dry. No. 151.  
 Tronel finish all floors.  
 Holes for electric conduits to be made by the contractor as directed by Engineer.

APPROVED		TITLE: JESSIE AVE. PUMP STATION	
DATE: 7/23/1917		SCALE: 1/4" = 1'-0"	
DRAWN BY: [Signature]		CHECKED BY: [Signature]	
APPROVED BY: [Signature]		DATE: 7/23/1917	



DIAGRAMATIC VIEW OF DRAIN PIPING FOR SUCTION ELBOWS & FLOOR SUMP  
FIGURE NO. 1



DIAGRAMATIC VIEW OF DRAIN PIPING FOR SUCTION ELBOWS & FLOOR SUMP  
FIGURE NO. 2

DIMENSIONS OF DRAINAGE PIPING						
STATION	FIGURE NO.	A	B	C	D	E
Nº1 ASH ST.	1	6'-4"	6'-6"	9'-9"	2'-3"	1'-0"
Nº2 AUBREY ST.	2 Opp. Hand	5'-0"	6'-6"	9'-0"	8'	1'-0"
Nº3 CORNISH AVE.	2 Opp. Hand	4'-6"	4'-0"	9'-0"	0'	10'
Nº4 JESSIE AVE.	2 Opp. Hand	4'-11"	6'-0"	7'-8"	3'	10'
Nº5 RIVER AVE.	2	4'-6"	4'-4"	5'-1"	3'	10'
Nº6 MARION ST.	2 Opp. Hand	5'-6"	6'-0"	14'-0"	0'	1'-0"
Nº7 RUE DESPINS	2 Opp. Hand	4'-2"	5'-3"	8'-8"	5'	9'
Nº8 SYNDICATE ST.	2 Opp. Hand	4'-2"	5'-4"	8'-3"	0'	9'
Nº9 BOYLE ST.	2	4'-3"	5'-3"	6'-10"	1'-0"	8'
Nº10 MONTCALM ST.	1	7'-6"	6'-6"	10'-0"	3'	1'-0"
Nº11 HART AVE.	2	4'-2"	5'-5"	8'-6"	8'	9'
Nº12 MUNROE AVE.	2	4'-2"	5'-5"	8'-0"	1'-0"	9'

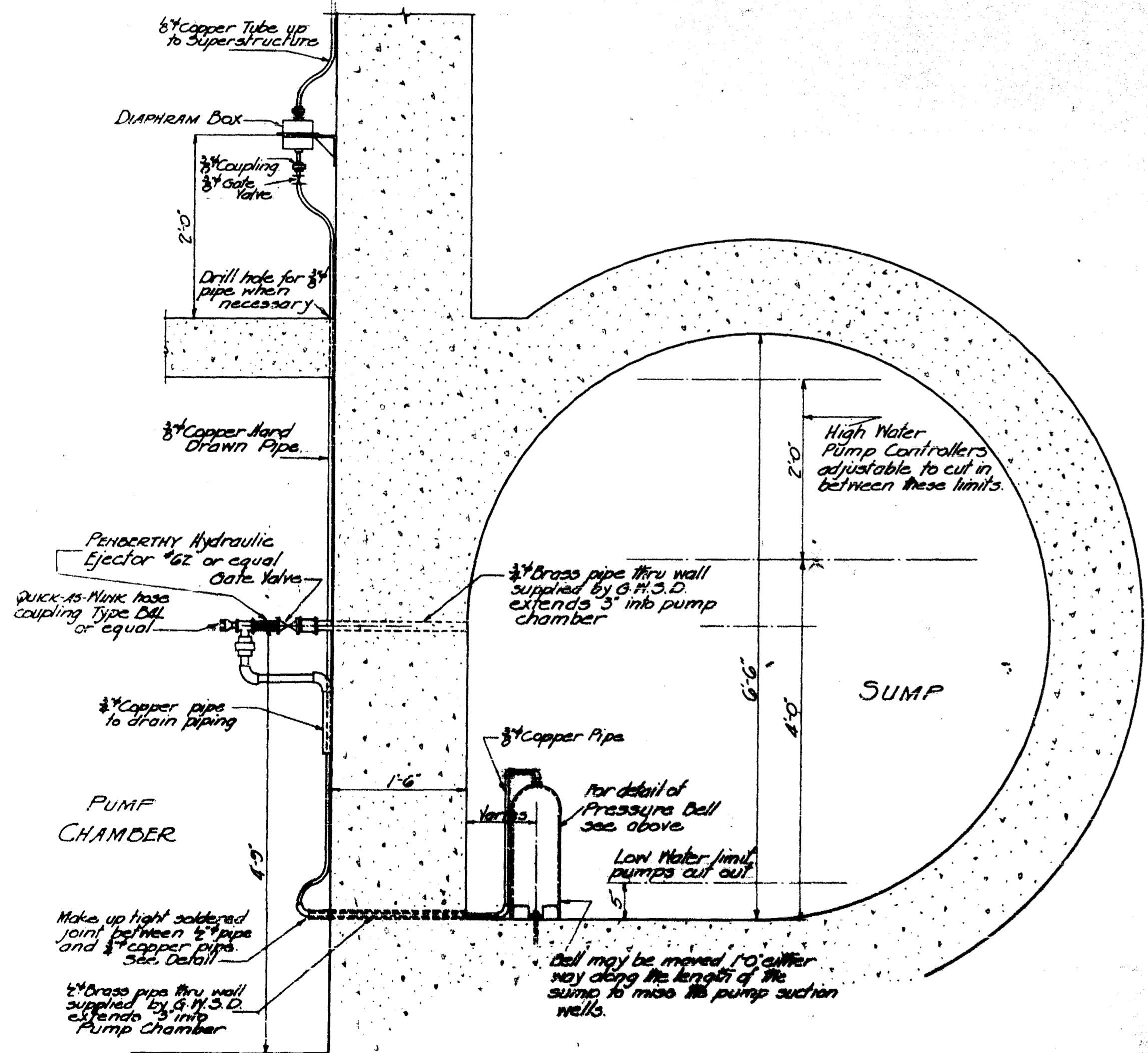
Dimensions given are approximate only

Legend

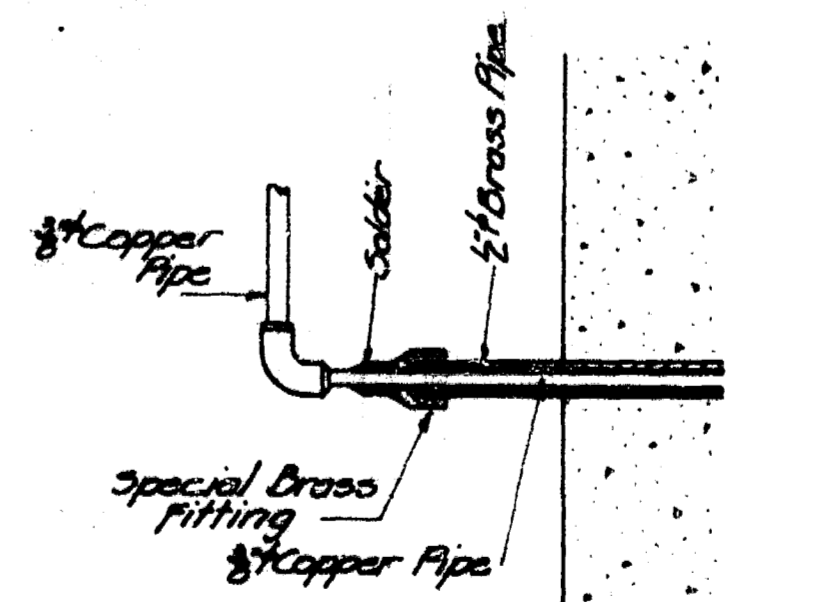
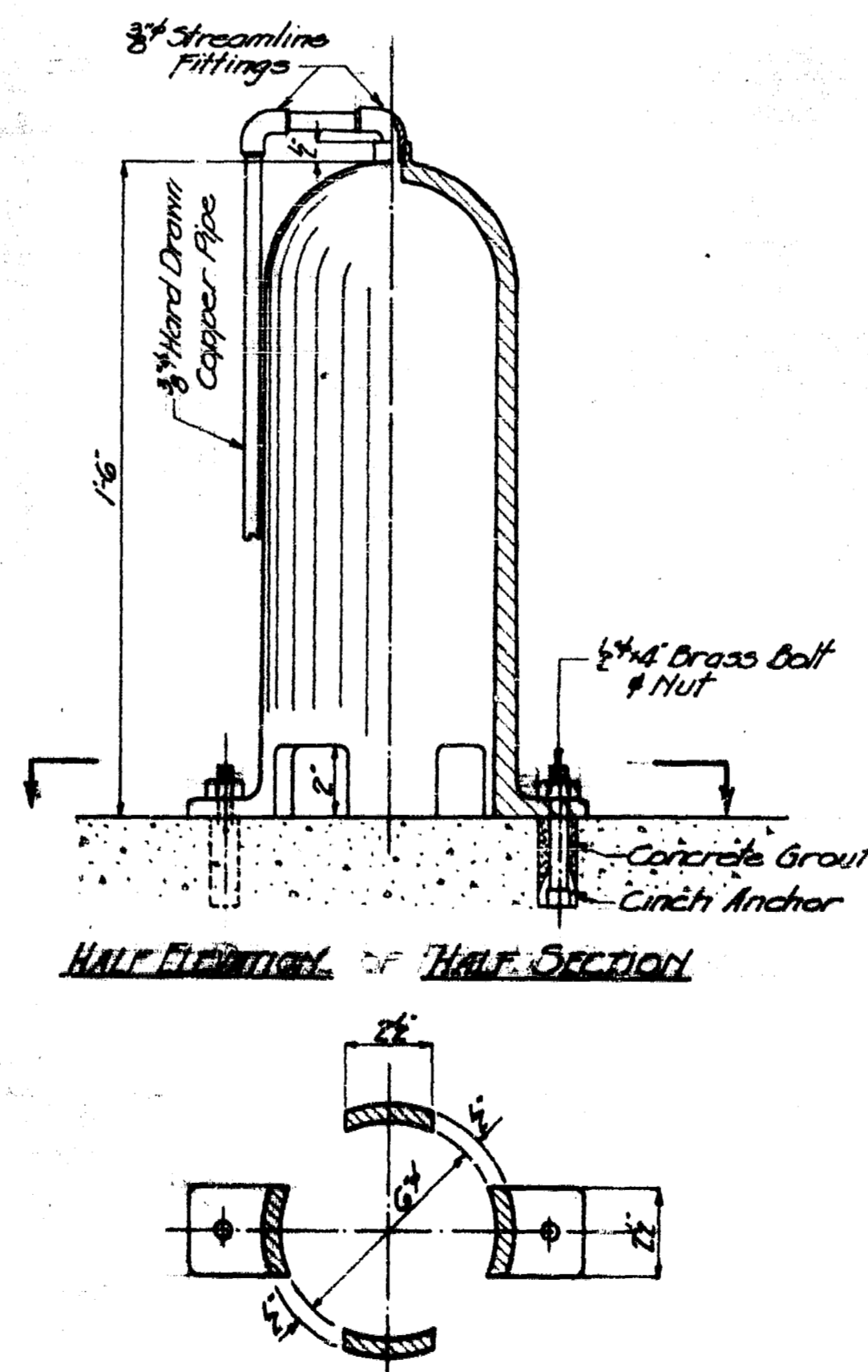
--- 1/2" Copper Pipe

--- 1/2" Brass Pipe

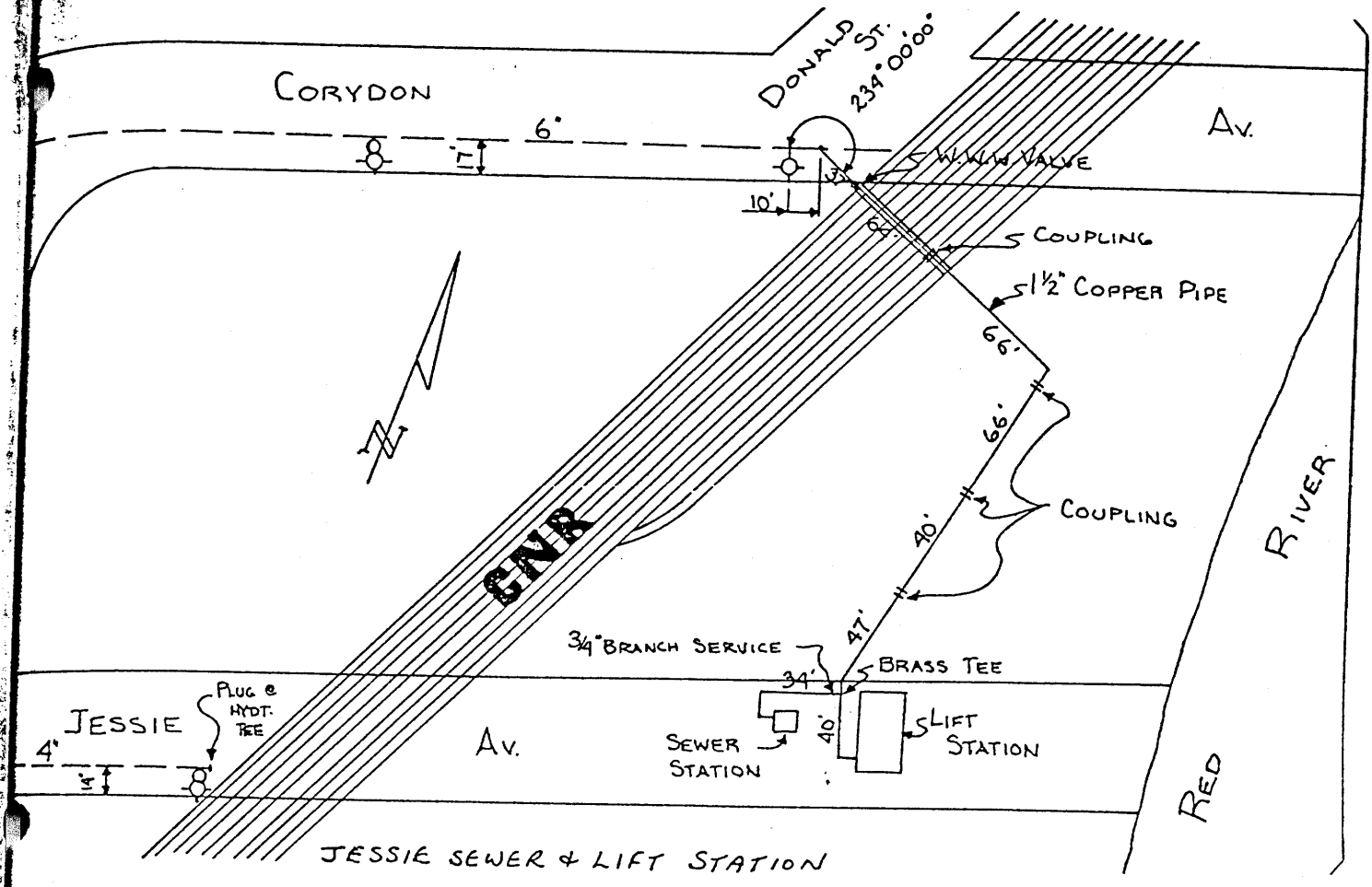
--- 1/2" Cast Iron Pipe



TYPICAL CROSS SECTION DETAIL SHOWING PRESSURE BELL, PIPING & HYDRAULIC EJECTORS  
TWELVE SIMILAR INSTALLATIONS  
Scale: 1/4 inch = 1 foot



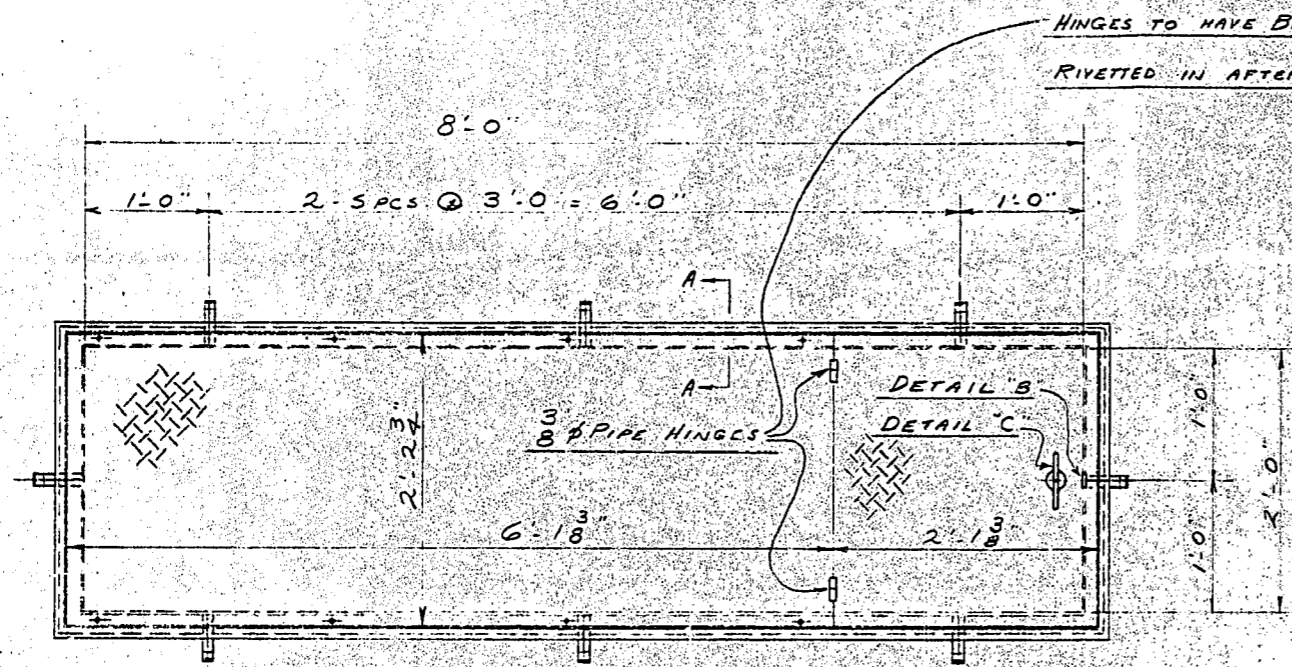
DETAIL OF CONNECTION BETWEEN 3/8" COPPER TUBE & 1/2" BRASS PIPE  
Scale: 3/8 inch = 1 foot



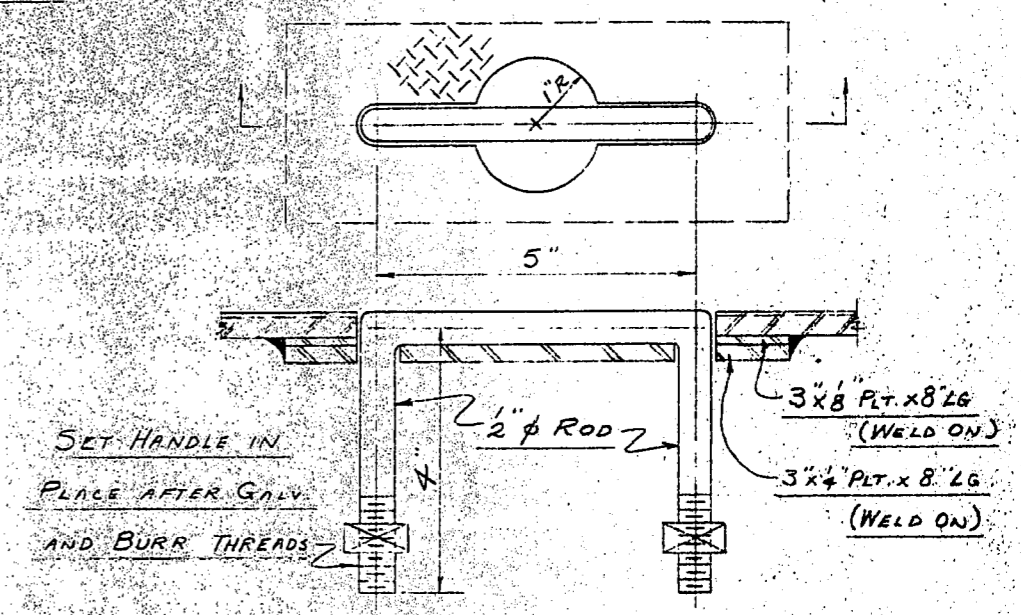
PROPERTY  
 OF THE  
 Watermain, Water & Sewer Department  
 PUBLIC WORKS  
 ENGINEERING DIVISION

Jessie Pumping Station  
 watermain SERVICE

D-8372

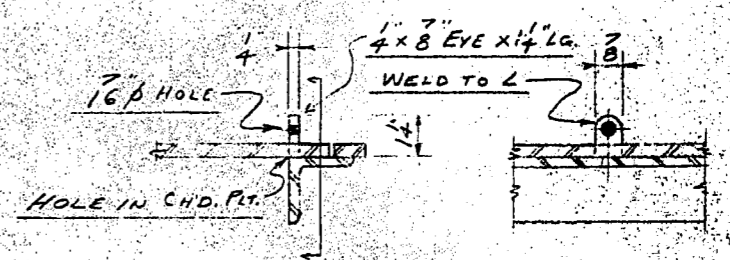


PLAN

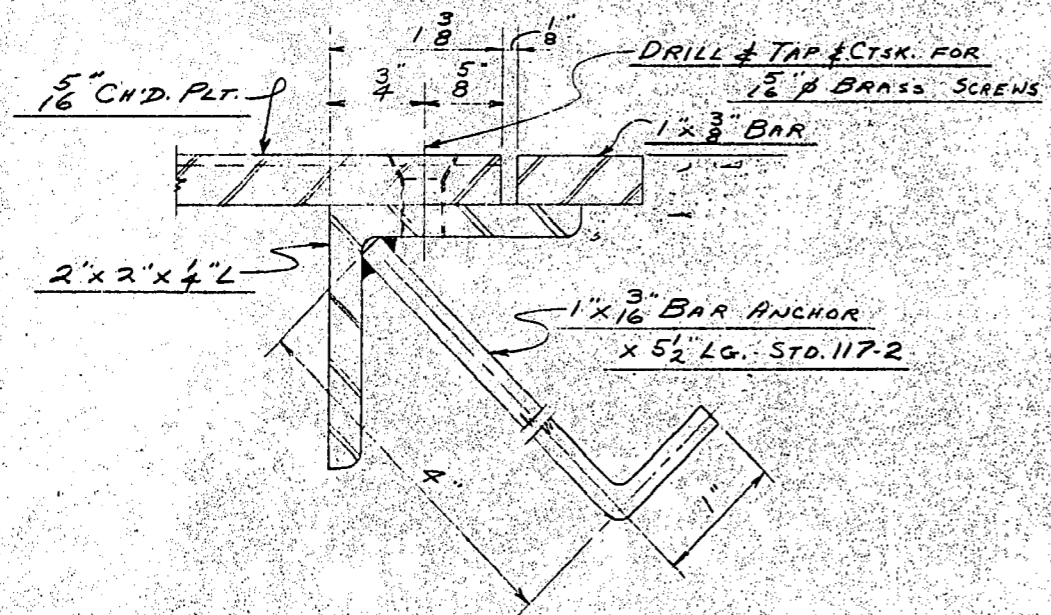


DETAIL "C" (HANDLE)  
(HALF SIZE)

*Dreg*  
B-FRAME AND COVER REQ'D AS SHOWN - MK FCI



DETAIL "B" - LOCKING DEVICE  
SCALE: 3/4" = 1'-0"



SECTION A-A (FULL SIZE)

ALL TO BE GALVANIZED AFTER FABRICATION

APPROVED FOR CONSTRUCTION  
*[Signature]* JAN 17 1955

JAN 17 1955  
VULCAN IRON & ENGINEERING LTD.

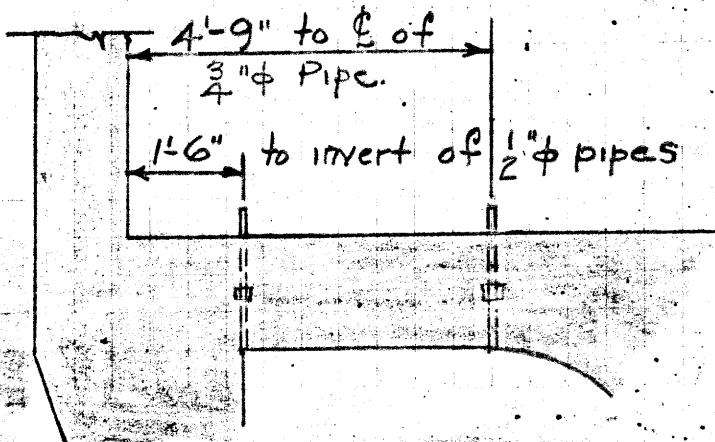
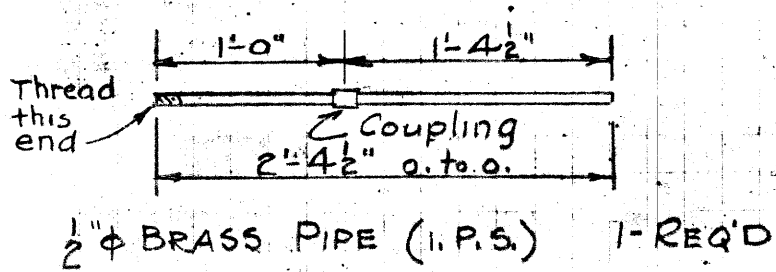
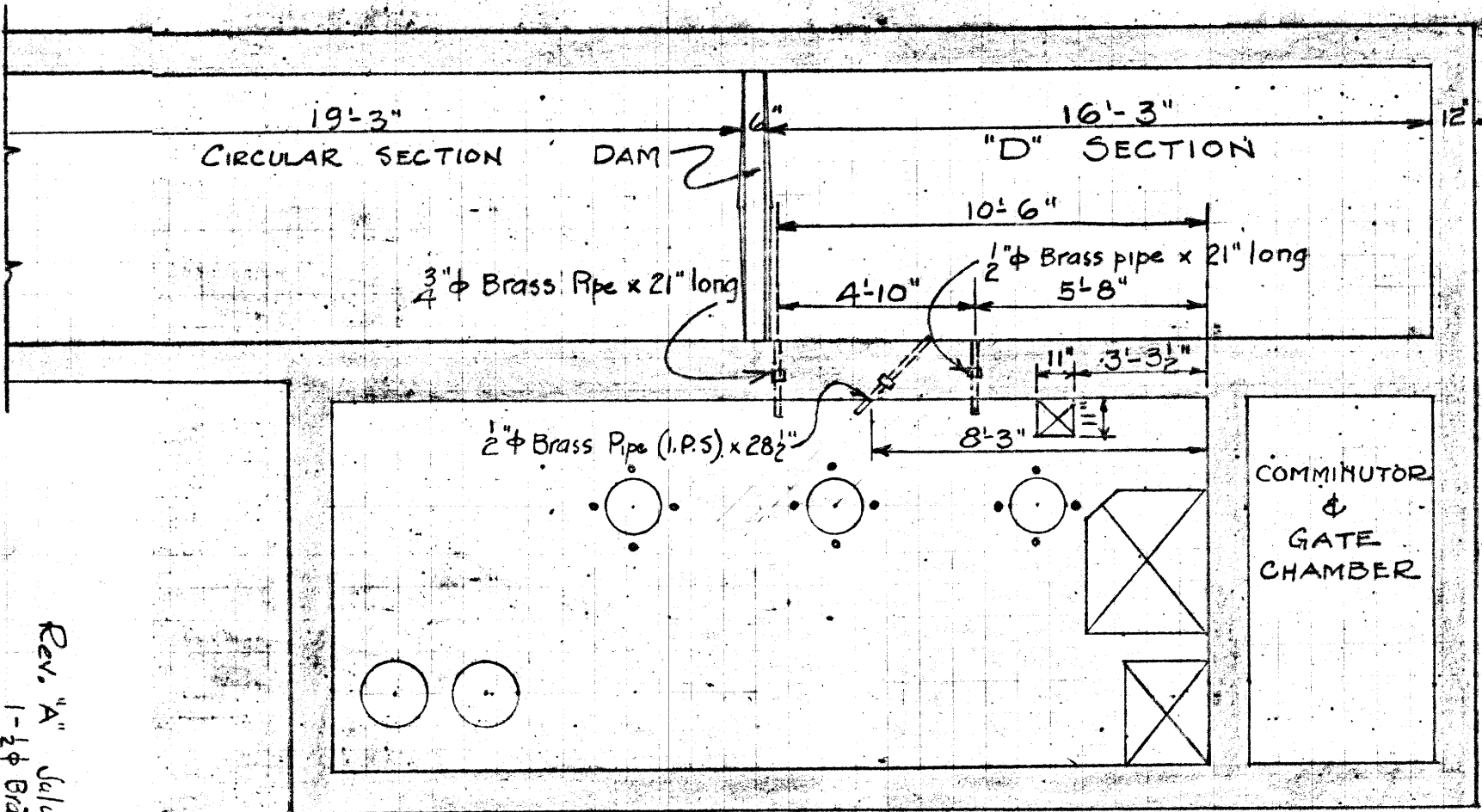
MARK	REQ'D	SIZE & SHAPE	LENGTH	REMARKS
PAINT: HOT DIP GALVANIZED EXCEPT AS NOTED				
RIVETS: HOLES: UNLESS OTHERWISE NOTED				
<b>VULCAN IRON &amp; ENGINEERING LTD.</b>				
WESTERN DIVISION OF <b>Bridge &amp; Tank</b> COMPANY OF CANADA, LIMITED				
SUBJECT: REMOVABLE GALV. COVERS & FRAMES				
CUSTOMER: NELSON RIVER CONST. CO. LTD. L/6 FLOOD PUMPING STATION, JESSIE AV.				
DRAWN: TDC/JAN. 3 55				
TRACED: ORDER 433/54				
CHECKED: DRAWING 2				
ISSUED: SCALE 1" = 1'-0"				

REVISIONS	REVISION DESCRIPTION
1	
2	
3	
4	

COMPUTED BY W.P.

CHECKED BY

MADE IN CONNECTION WITH Location of 11" x 11" hole, 2" & 3" pipe & "D" Section.



Rev. "A" July 21, 1936  
1-2" φ Brass pipe 28 1/2" Long added.

**TABULATION OF CIRCUITS FOR SECONDARY PUMPING STATIONS 4,5 & 6 TABLE**

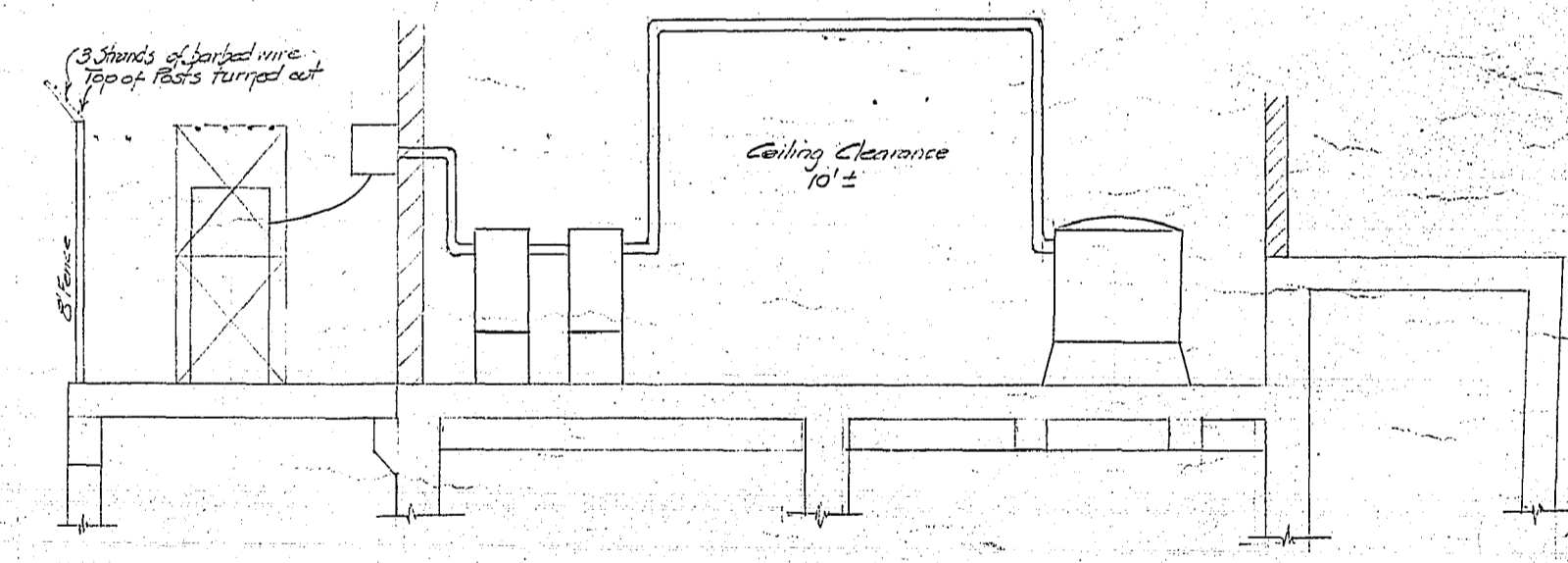
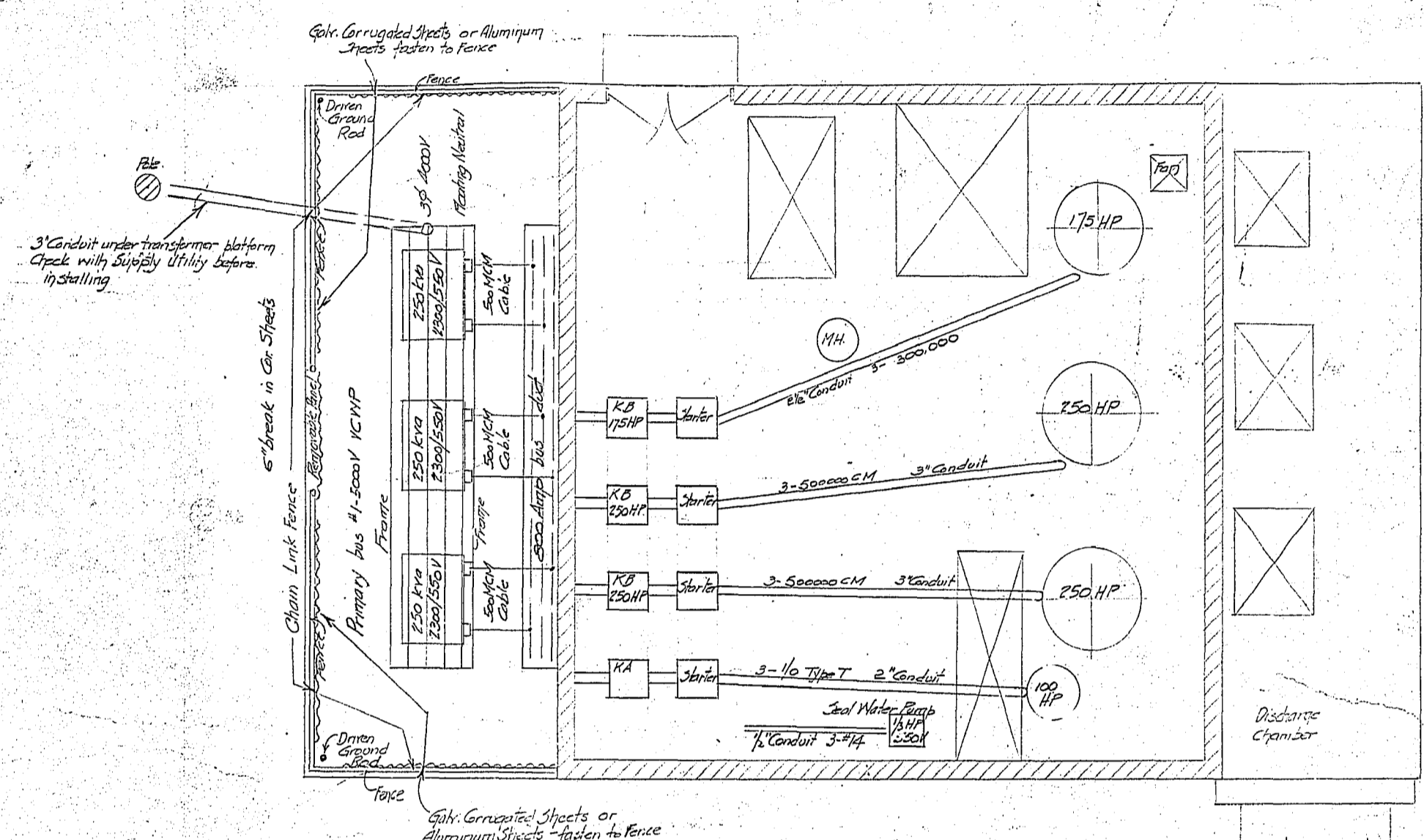
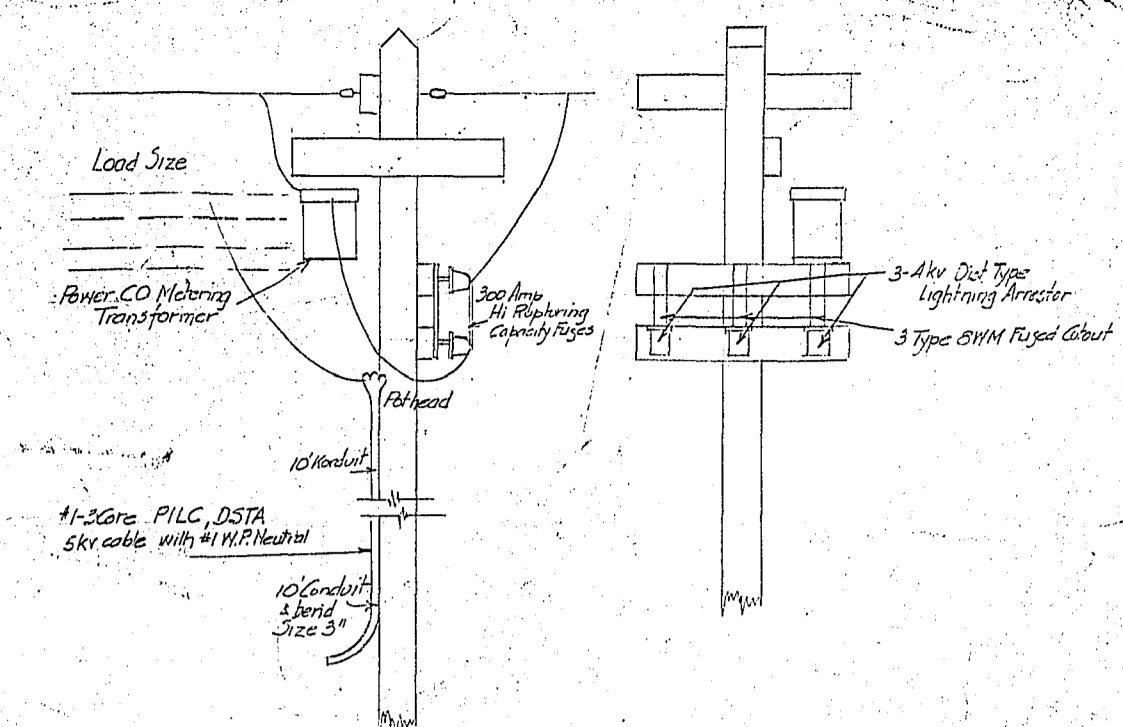
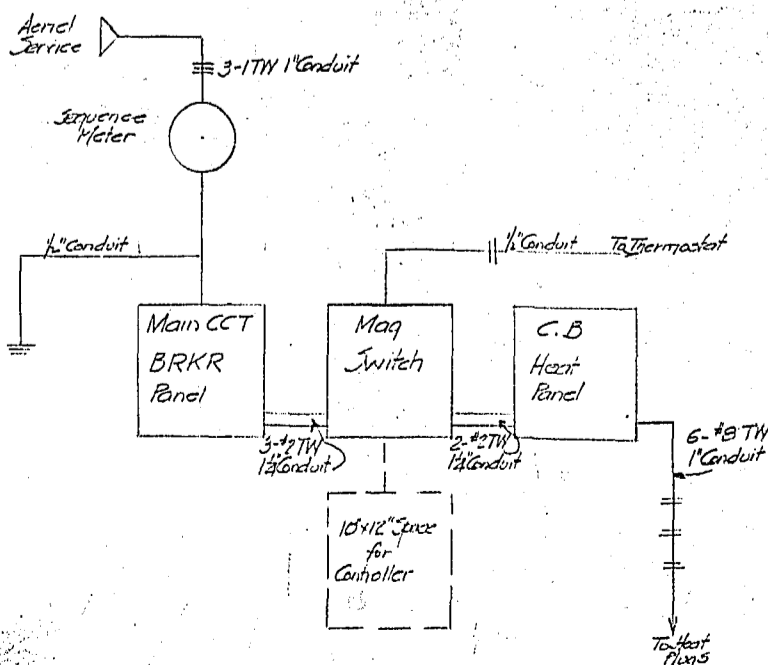
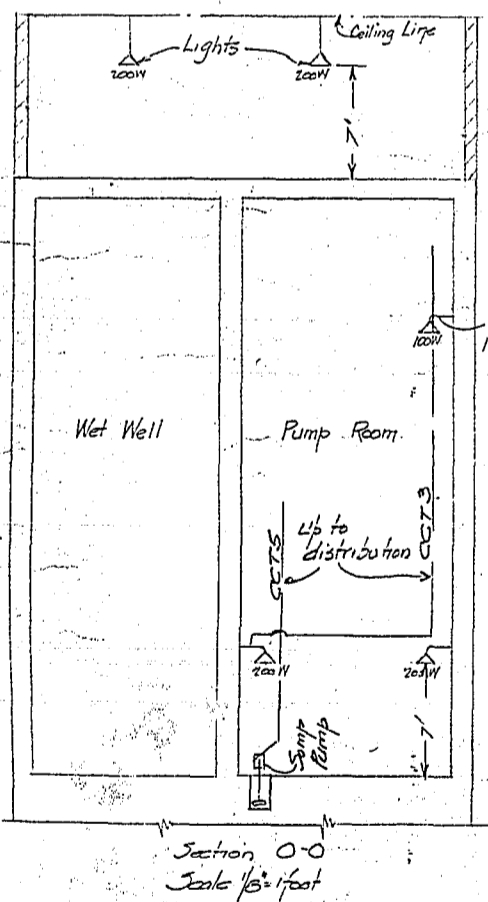
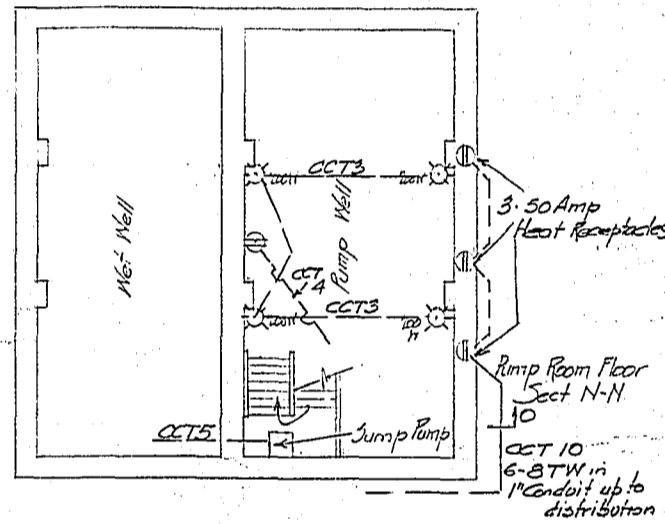
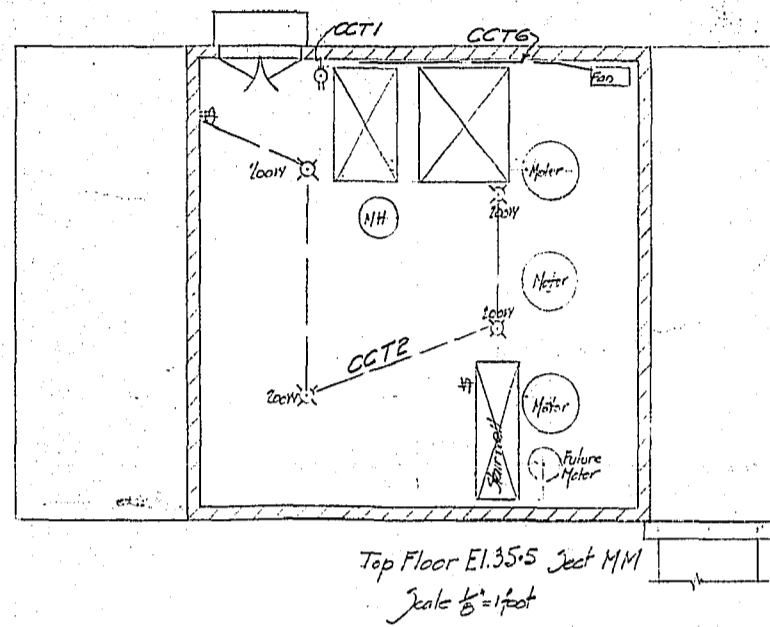
CIRCUIT NUMBER	LOCATION	Dwg No	VOLTAGE	SWITCH SIZE	Breaker or fuse SIZE	No WIRES	SIZE WIRE	INSULATION	CONDUIT SIZE	Outlets, Boxes Switches or Starters Required	REMARKS
	JESSIE AVE.	163, 164 156	PUMPING STATION N° 4							2-30HP Motors installed	
D1	550V. Power Service	184	550	200	100 a.	3	1/0	R.C.	2"	1-200a. Switch in C.I. Case	
D2	Motor N°1 Feeder	184	550		40 a.	3	6	R.C.	1 1/4"	1-C.I. Magnetically operated starter for 30HP. with disconnecting switch in C.I. Case.	
D3	Motor N°2 Feeder	184	550		40 a.	3	6	R.C.	1 1/4"	1-C.I. Magnetically operated starter for 30 HP with disconnecting switch in C.I. Case.	
D4	Comminutor	184	550	30	15a. fuse 2.5d.	3	12	R.C.	3/4"	1-30 Amp. Switch in C.I. Case. 1- 2 HP. Hand Operated Starter in C.I. Case.	
D5	Control Circuit	184	550			6	12	R.C.	1"	1-Float Operated Controller for control of 3 Motors. with 3 "Handoff-automatic" switches on case.	
D6											
D7	Lighting Circuit	184	120	30	15 a.	2	12	R.C.	3/4"	7-Vapor proof fixtures (V2759) with 60 W. Lamps. 1-20 Amp. Tumbler Switch with Plate, D5 32g. 1- Plug Receptacle & Housing BRD 7302.	1- Portable Handlamp for details see Dwg N° M61
	RIVER AVE.	171	PUMPING STATION N° 5							2-15 HP Motors Installed. Dip Service installed.	
E1	550V. Power Service	184	550	60	40 a.	3	#6	R.C.	1 1/4"	1-60 a. Switch in C.I. Case.	
E2	Motor N°1 Feeder	184	550		18.75 a.	3	12	R.C.	3/4"	1-C.I. Magnetically operated starter for 15HP, with disconnecting switch in C.I. Case.	
E3	Motor N°2 Feeder	184	550		18.75 a.	3	12	R.C.	3/4"	1-C.I. Magnetically operated starter for 15HP, with disconnecting switch in C.I. Case.	
E4	Comminutor	184	550	30	15a. fuse 2.0a.	3	12	R.C.	3/4"	1-30 Amp. Switch in C.I. Case. 1- 1 1/2 HP. Hand Operated Starter in C.I. Case.	
E5	Control Circuit	184	550			6	12	R.C.	1"	1-Float Operated Controller for control of 2 Motors with 2 "Handoff-automatic" switches on case.	
E6											1-Vapor proof Handlamp Portable for details see Dwg. M61
E7	Lighting Circuit	184	120	30	10 a.	2	12	R.C.	3/4"	5-Vapor proof Fixtures (V2759) with 60 W. Lamps. 1-20 Amp. Tumbler Switch with plate, D5 108. 2- Plug Receptacle & housing BRD 8302.	1-550/120V. Dry Type Trans- former for lighting, supplied by G.W.S.D.
	MARION ST.	173, 156.	PUMPING STATION N° 6							1-30 HP. & 1-25 HP. Motor Installed.	
F1	550V. Power Service	184	550	100	80 a.	3	#2	R.C.	1 1/2"	1-100 Amp. Switch in C.I. Case.	
F2	Motor N°1 Feeder	184	550		40 a.	3	6	R.C.	1 1/4"	1-C.I. Magnetically operated starter for 30HP. with disconnecting switch in C.I. Case.	
F3	Motor N°2 Feeder	184	550		32.5 a.	3	6	R.C.	1 1/4"	1-C.I. Magnetically operated starter for 25HP, with disconnecting switch in C.I. Case.	
F4	Comminutor	184	550	30	15a. fuse 2.0a.	3	12	R.C.	3/4"	1-30 Amp. Switch in C.I. Case 1- 1 1/2 HP. Hand Operated Starter in C.I. Case.	
F5	Control Circuit	184	550			6	12	R.C.	1"	1-Float Operated Controller for control of 2 Motors with 2 "Handoff-automatic" switches on case.	
F6											
F7	Lighting Circuit	184	120	30	15 a.	2	12	R.C.	3/4"	7-Vapor proof Fixtures (V2759) with 60 W. Lamps. 1-20 Amp. Tumbler Switch with plate, D5 32g. 1- Plug Receptacle & housing BRD 7302.	1-Vapor proof Portable Handlamp for details see Dwg. M61

Micro-Filmed 1965

GREATER WINNIPEG SANITARY DISTRICT  
DATE DEC. 31-1936 DRAWING No M62  
DRAWN L.M. Checked M.T. CONTRACT No. 44



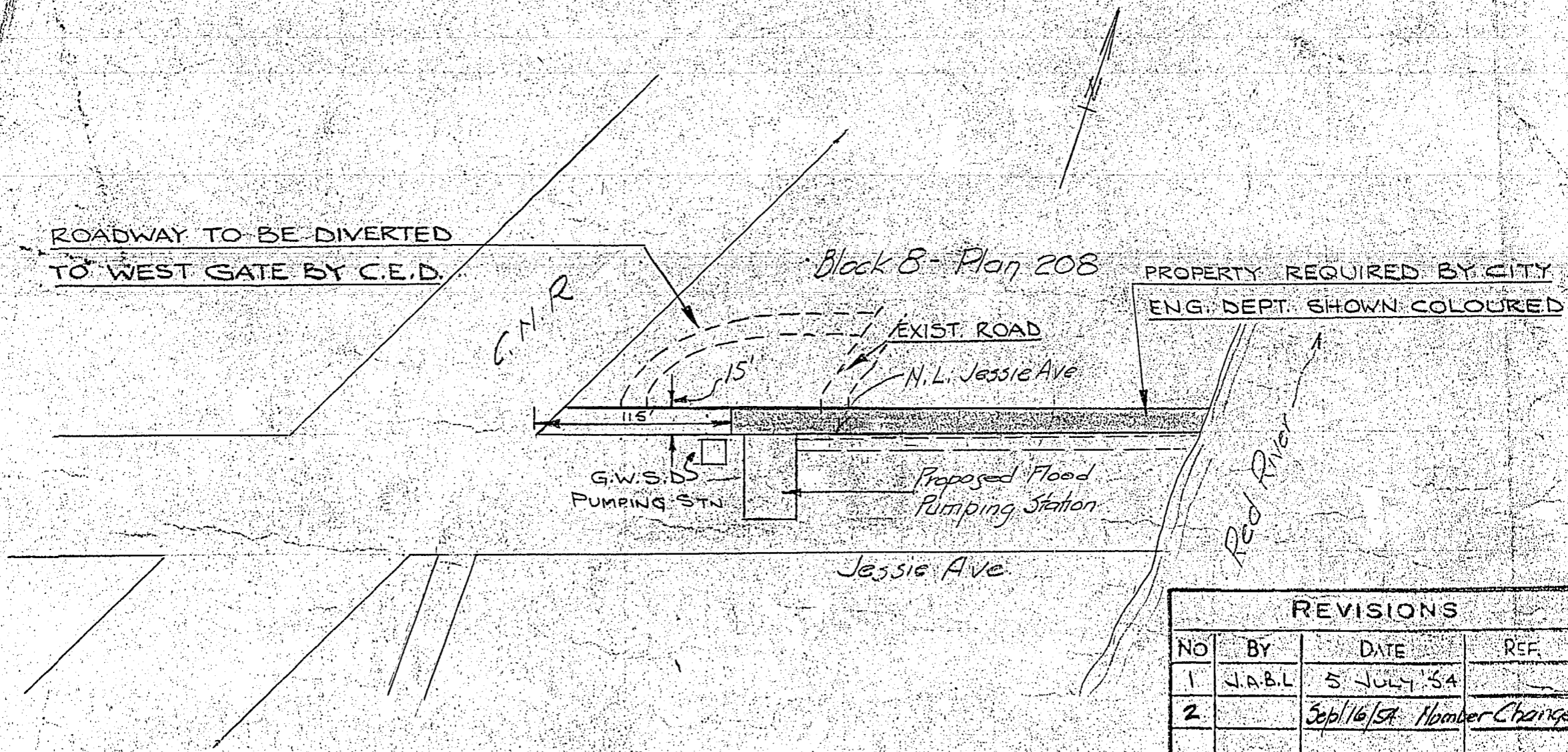
CCT	Description	C.B.
1	Plug top floor	15 Amps
2	Top Floor Lights 4-200W	15 Amps
3	Pump Room Lights 4-200W	15 Amps
4	Plug Pump Room Floor	15 Amps
5	Jump Pump 1/2 HP	20 Amps
6	Fan 1/2 HP	20 Amps
7	Spare	
8	"	
9	"	
10	Heat Sub	30A 1p.



ROADWAY TO BE DIVERTED  
TO WEST GATE BY C.E.D.

Block 8 - Plan 208

PROPERTY REQUIRED BY CITY  
ENG. DEPT. SHOWN COLOURED



REVISIONS			
NO	BY	DATE	REF.
1	J.A.B.L.	5 JULY '54	
2		Sept 16/54	Number Changed

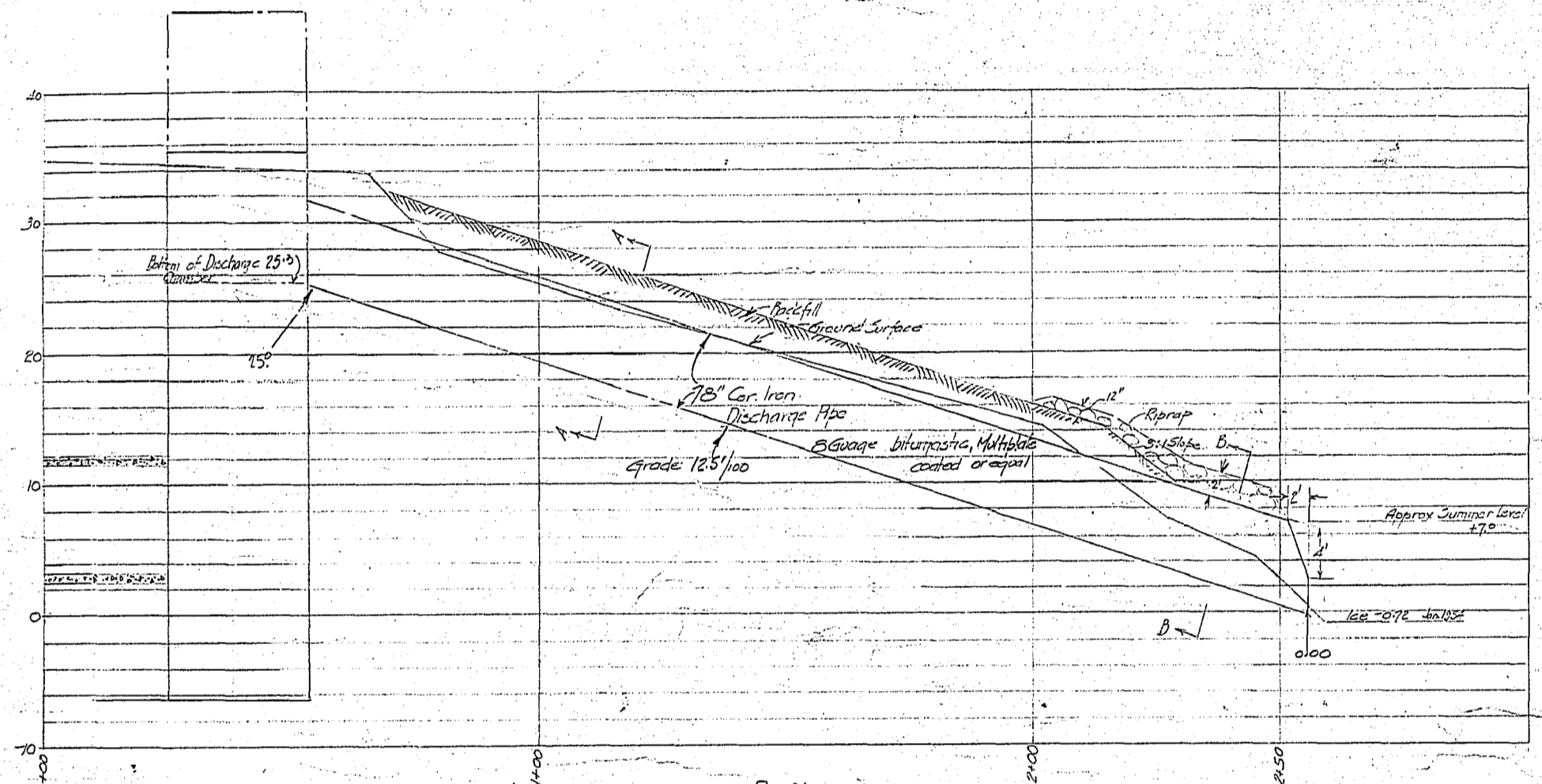
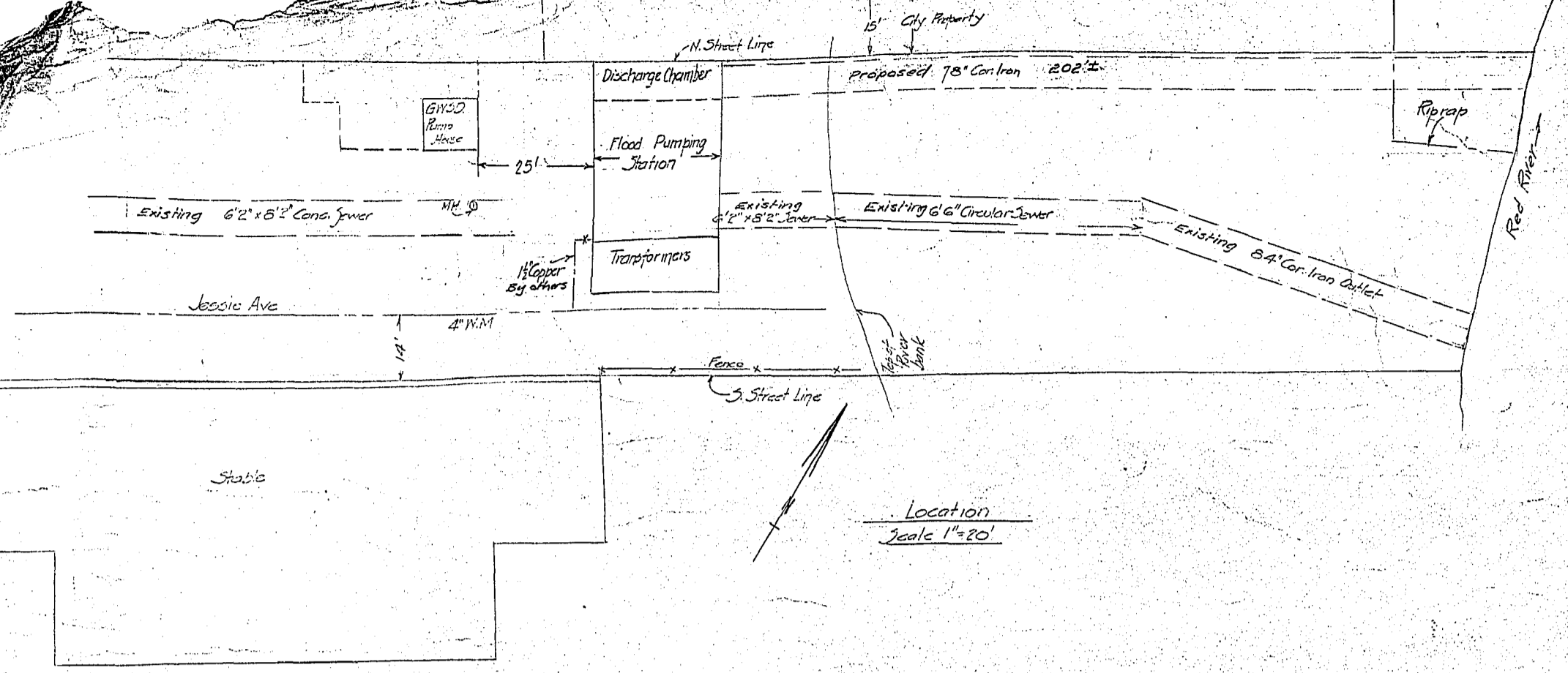
Jessie Avenue Flood Pumping Station  
Sketch of  
Extra Property Required

**CITY OF WINNIPEG**  
ENGINEERING DEPARTMENT  
W. D. HURST, CITY ENGINEER  
A. J. S. TAUNTON, DEPUTY CITY ENGINEER

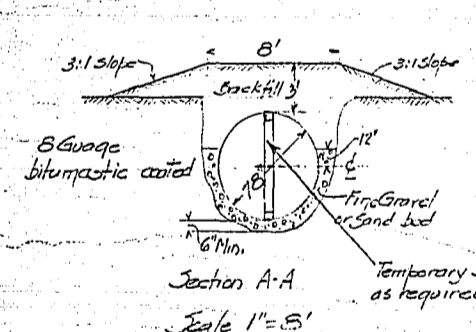
DRAWN BY: *W.D.* DATE: *July 14, 1954*  
TRACED BY: .....  
CHECKED BY: .....  
APPROVED: .....

SCALE  
*1" = 100'*  
DRAWING NO.  
*683-1*

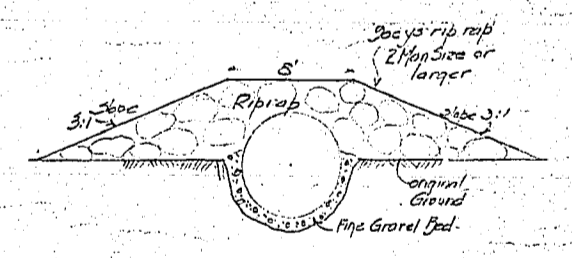
**R-107**



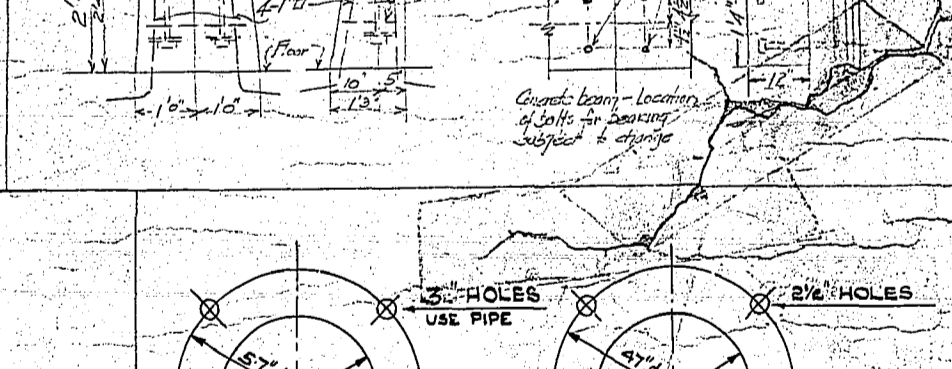
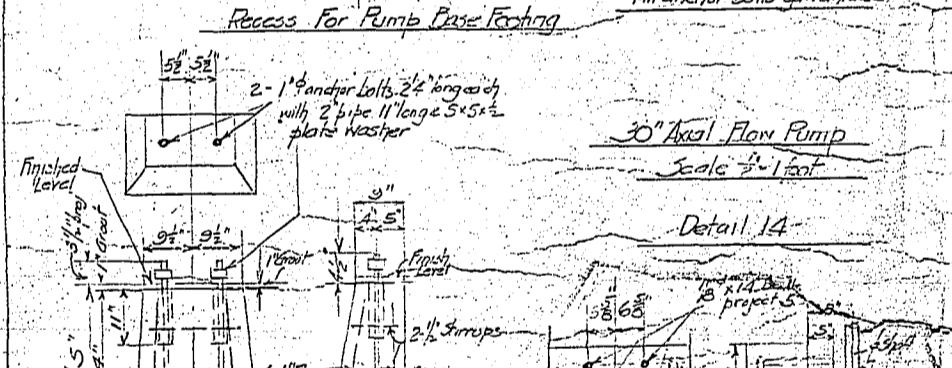
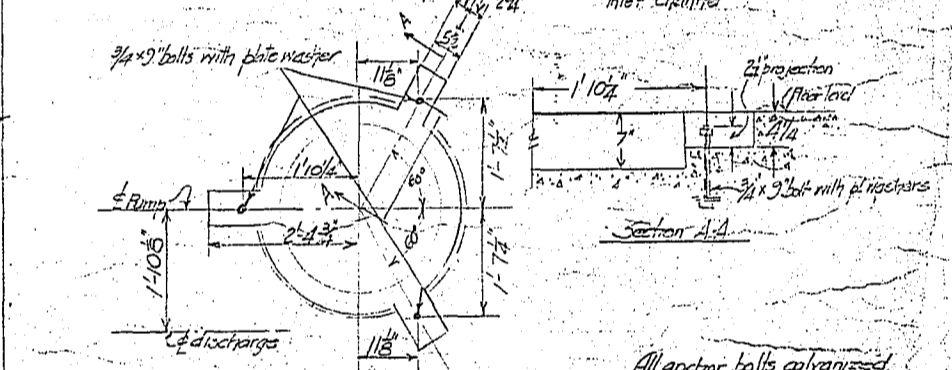
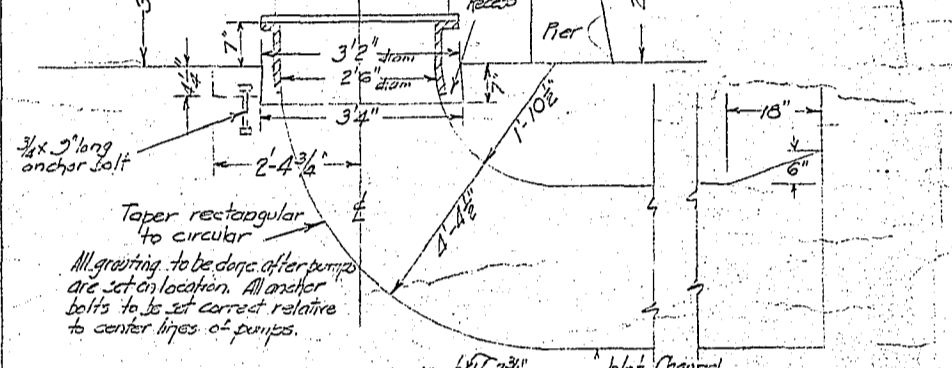
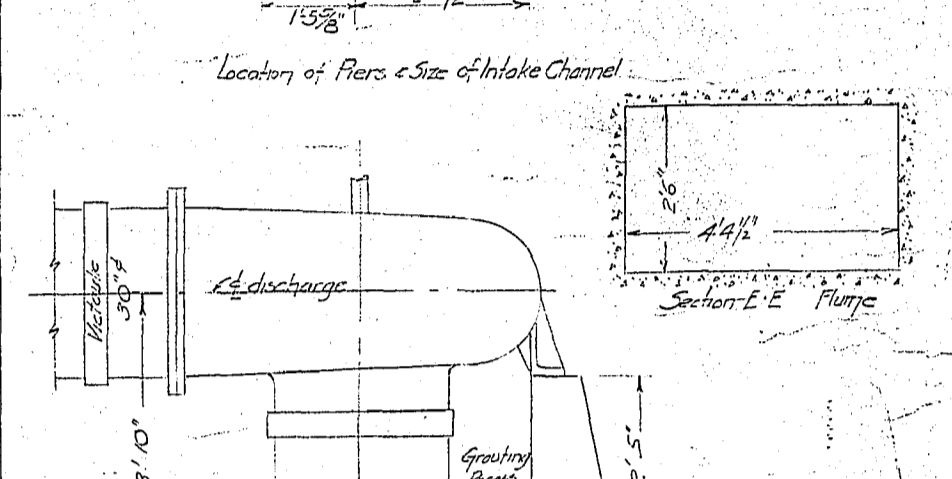
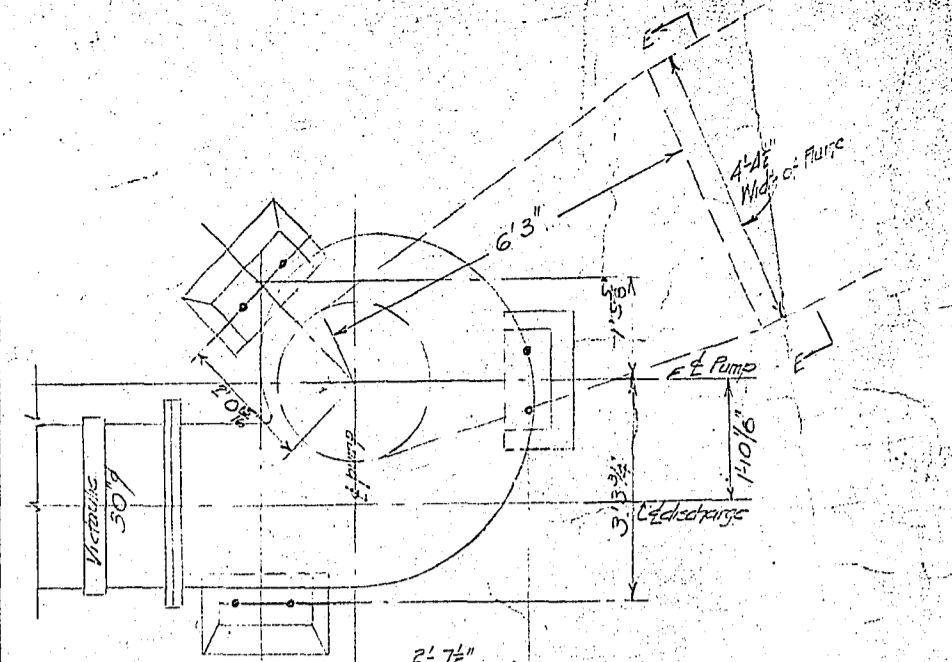
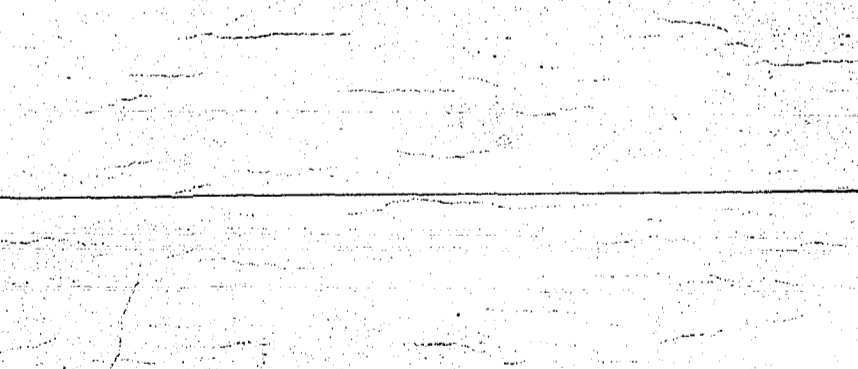
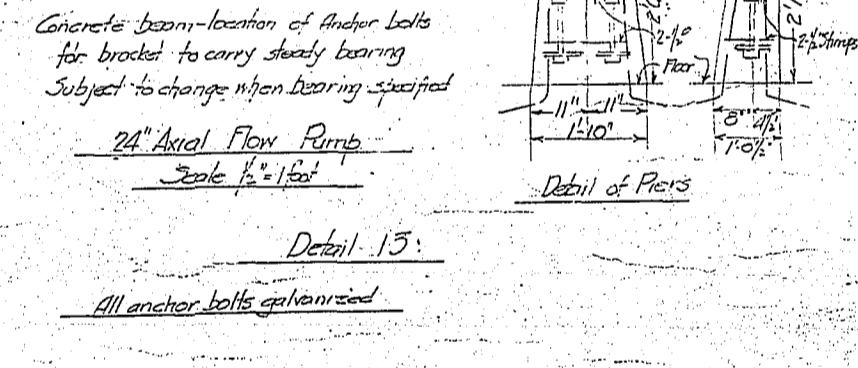
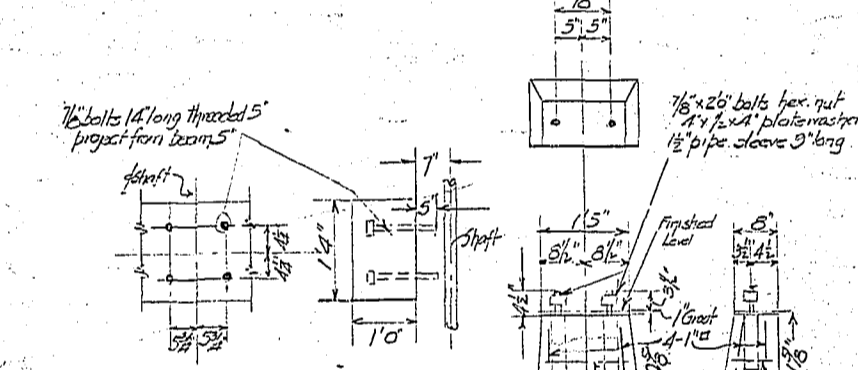
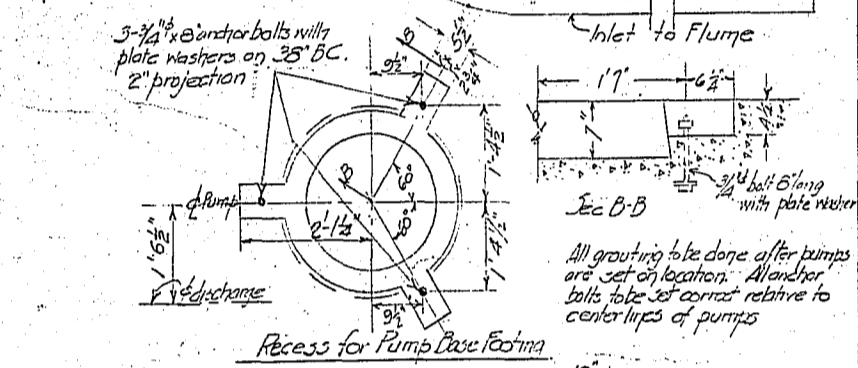
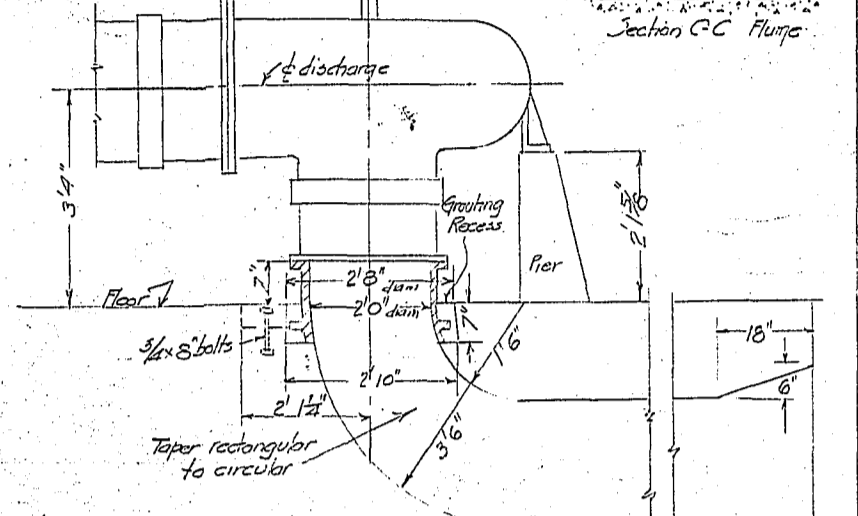
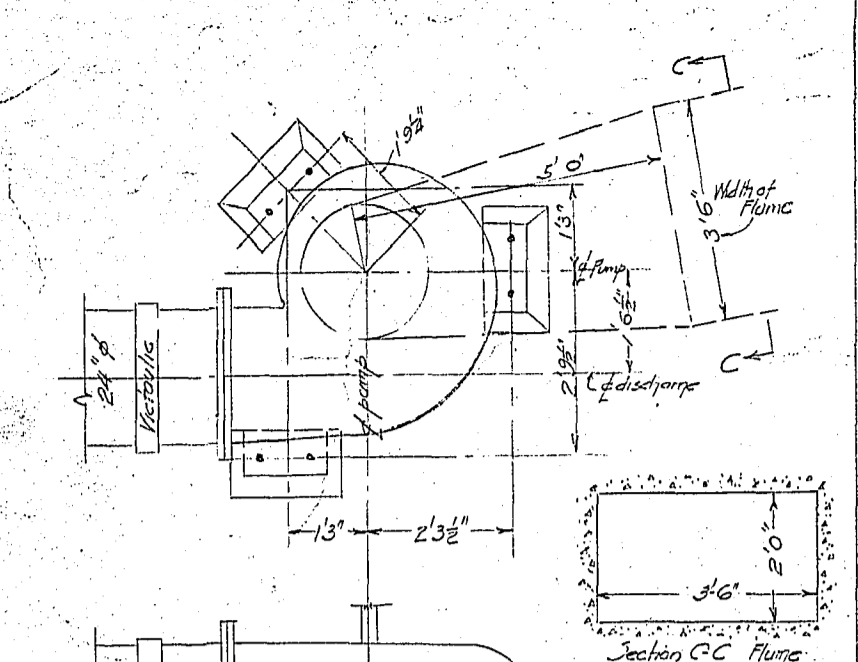
Profile  
 Scales: Hor 1"=20'  
 Ver 1"=8'



Section A-A  
 Scale 1"=8'



Section B-B  
 Scale 1"=8'



Concrete beam - location of anchor bolts for bracket to carry steady bearing. Subject to change when bearing specified.

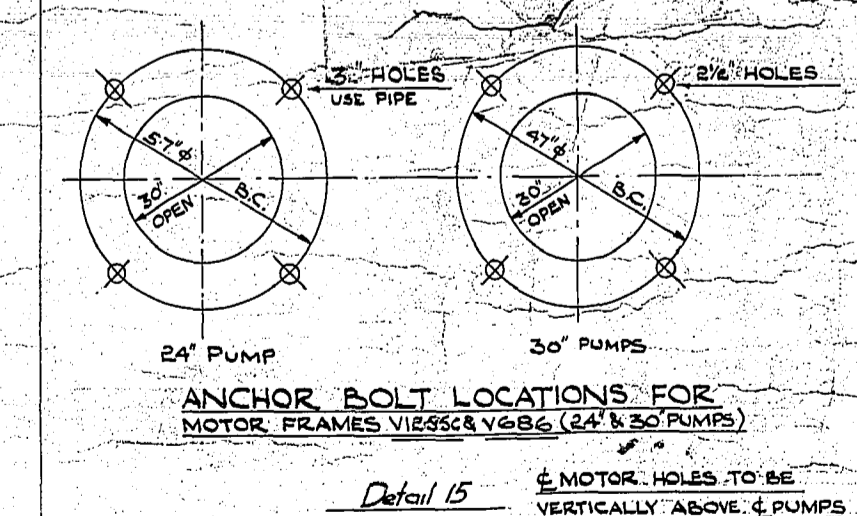
24" Axial Flow Pump  
 Scale 1/4"=1'-0"

Detail 13:  
 All anchor bolts galvanized.

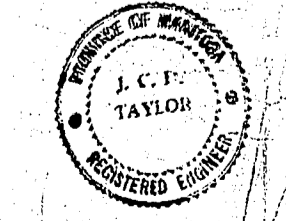
Concrete beam - location of inlet for bearing. Subject to change.

30" Axial Flow Pump  
 Scale 1/4"=1'-0"

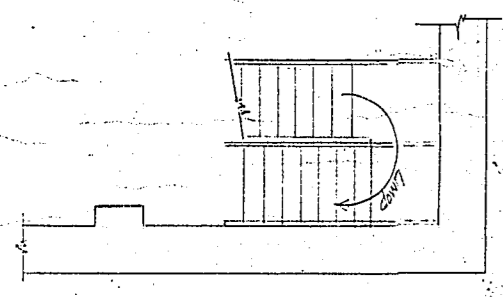
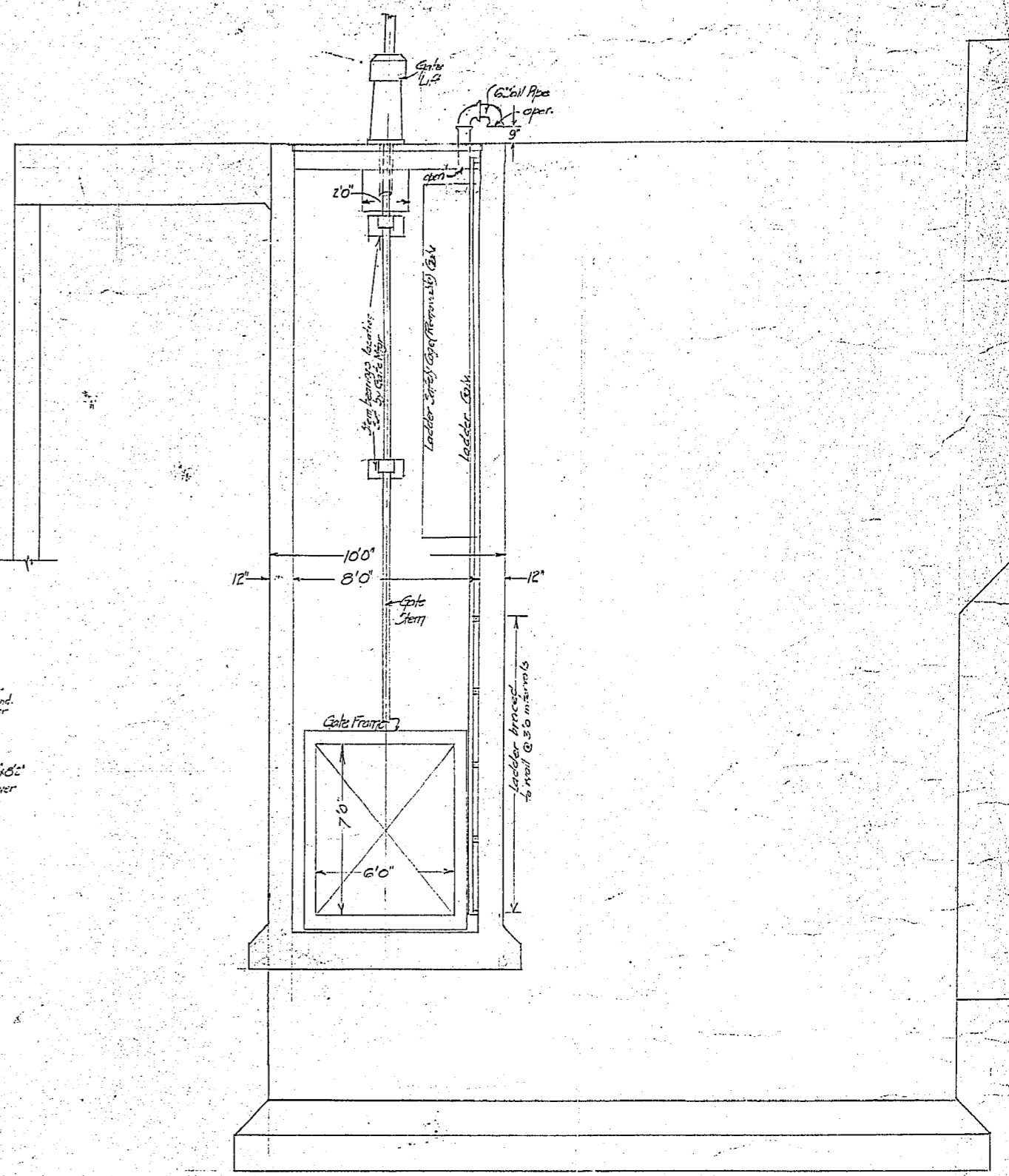
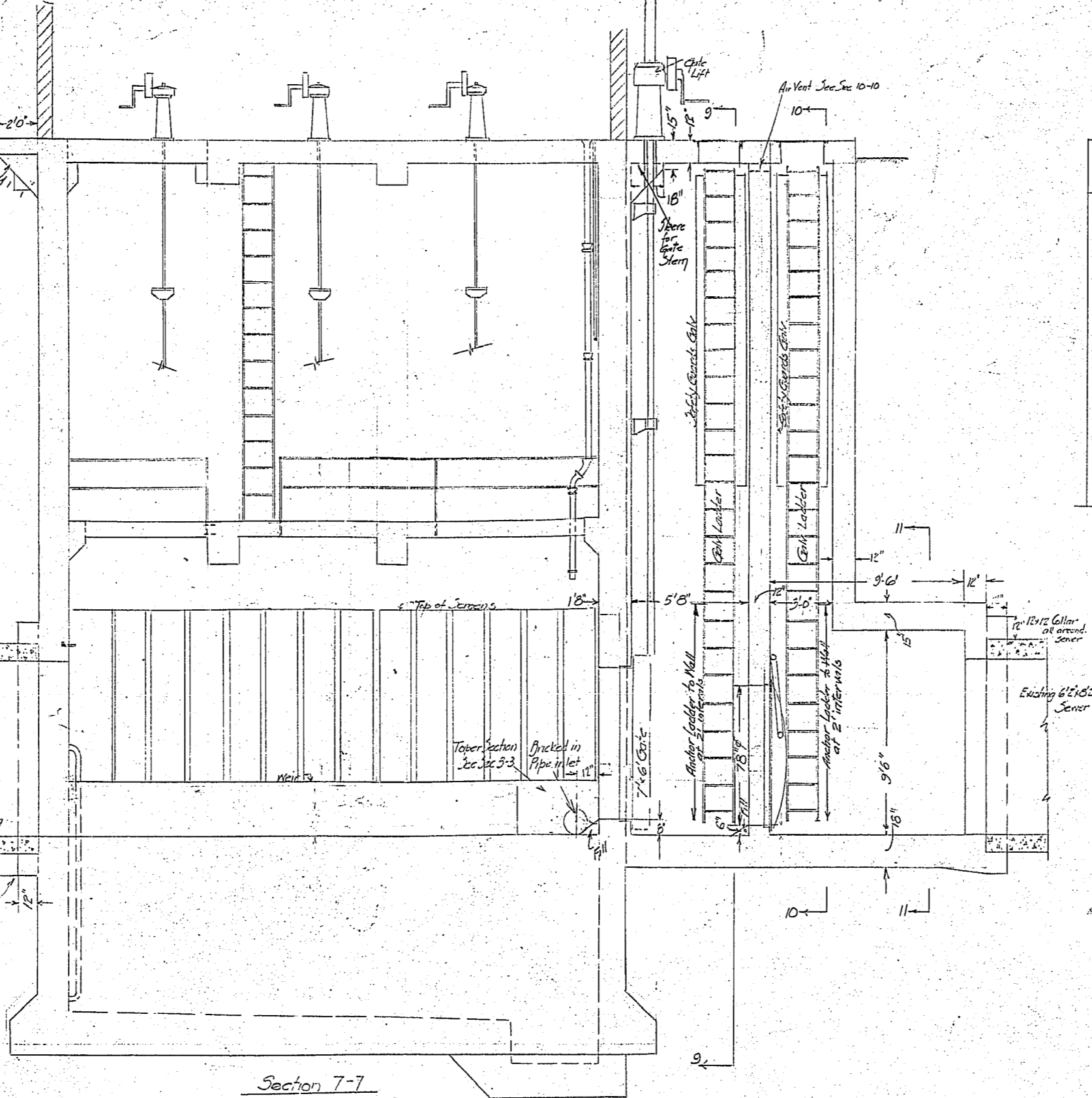
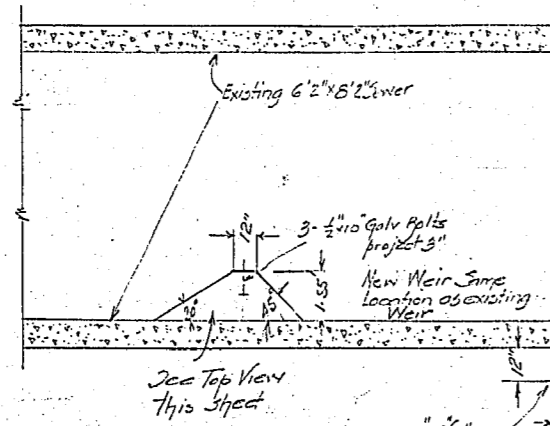
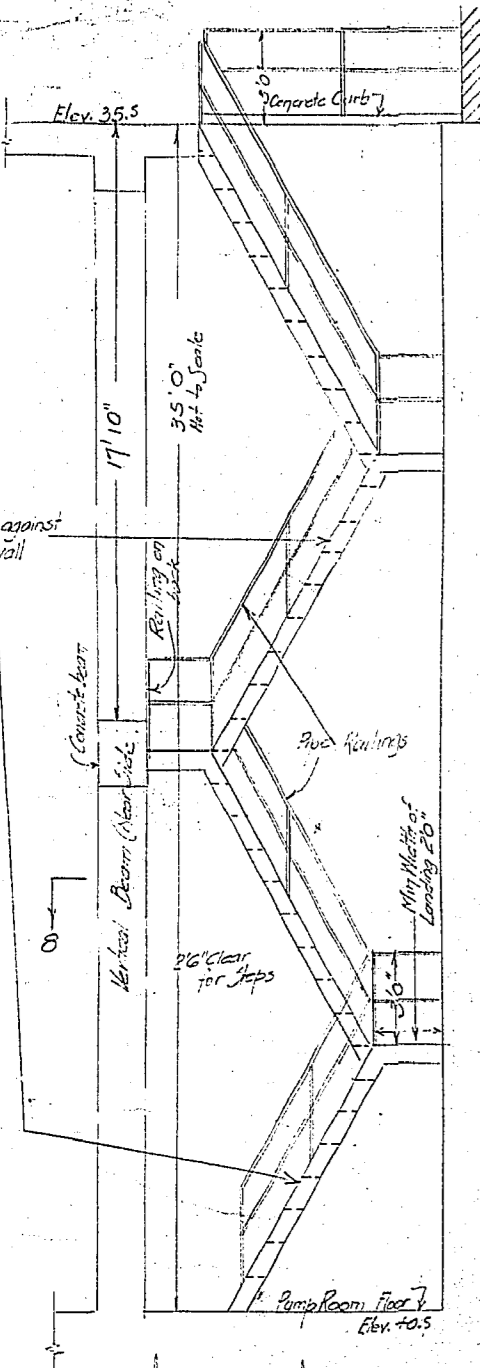
Detail 14:  
 All anchor bolts galvanized.



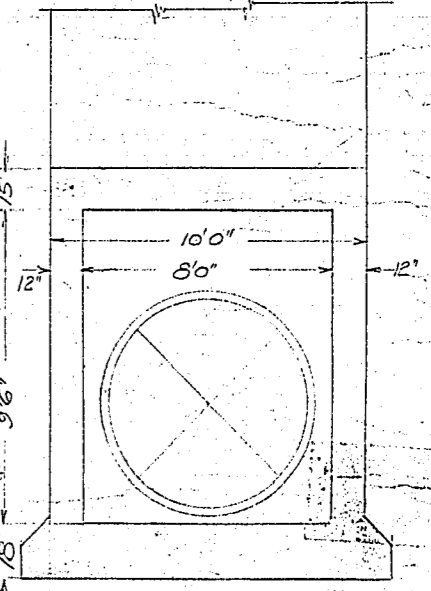
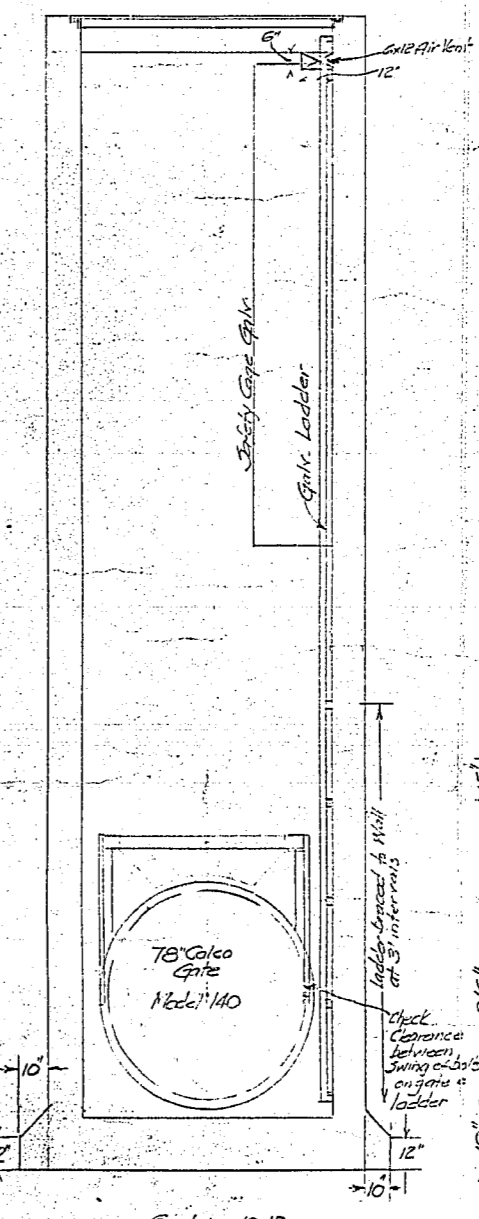
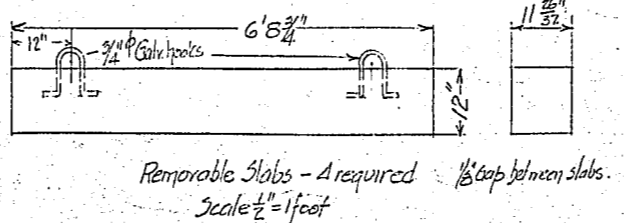
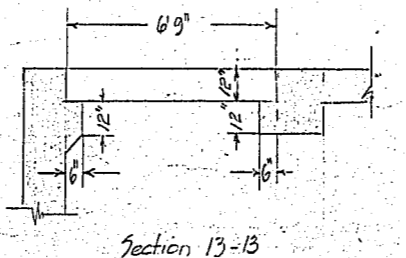
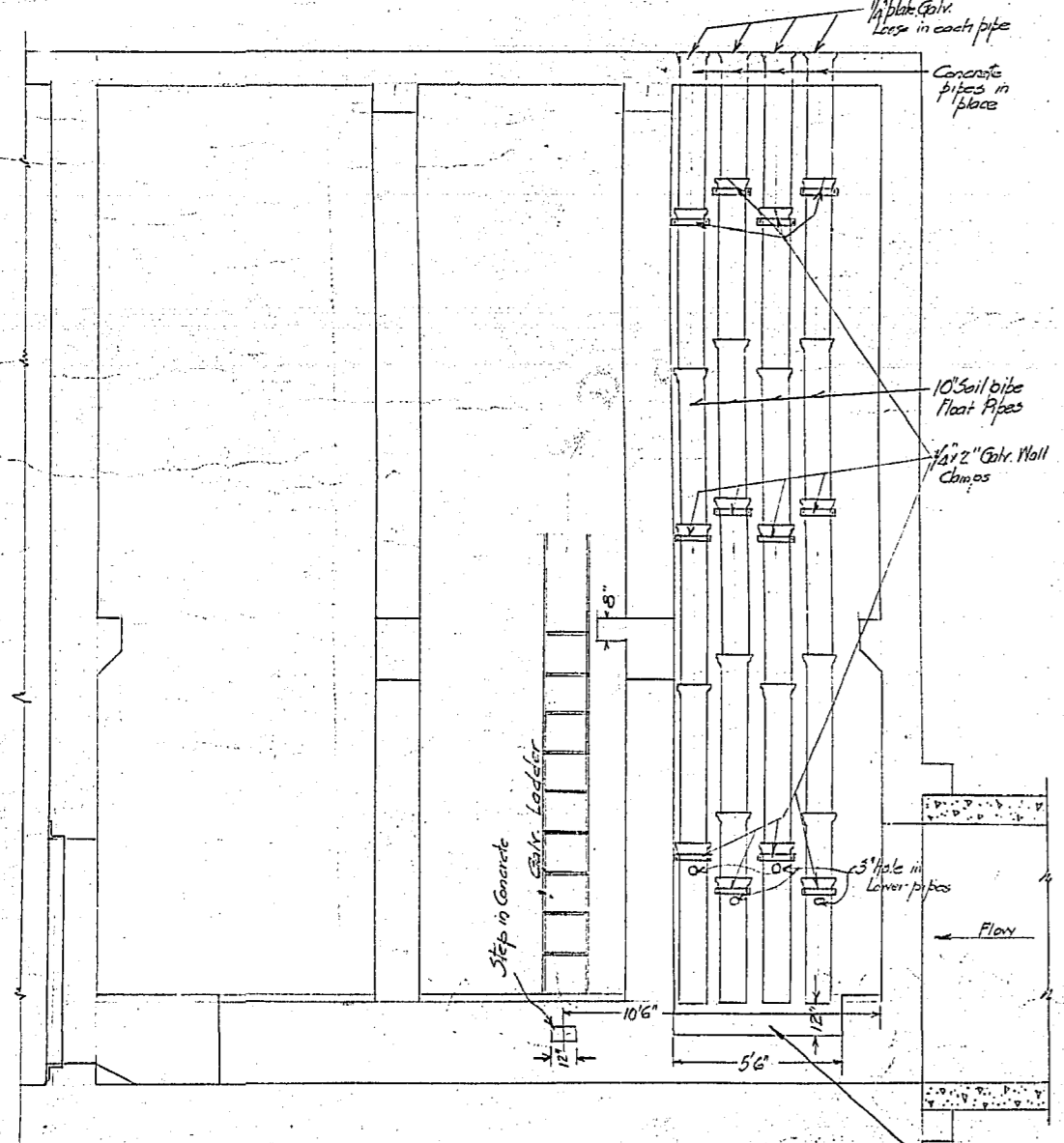
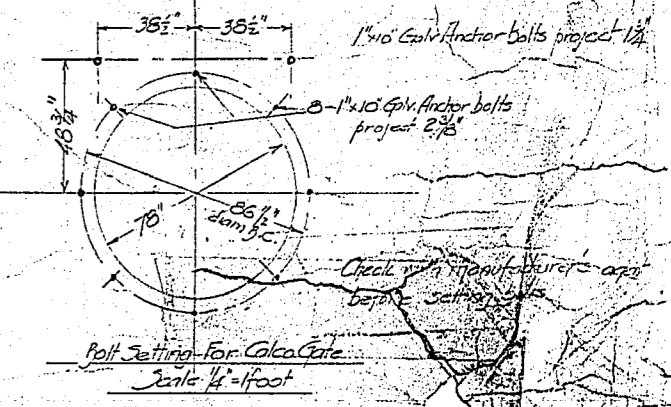
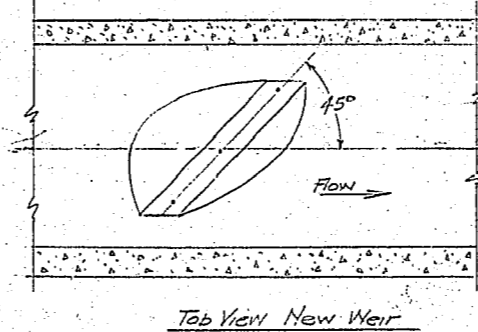
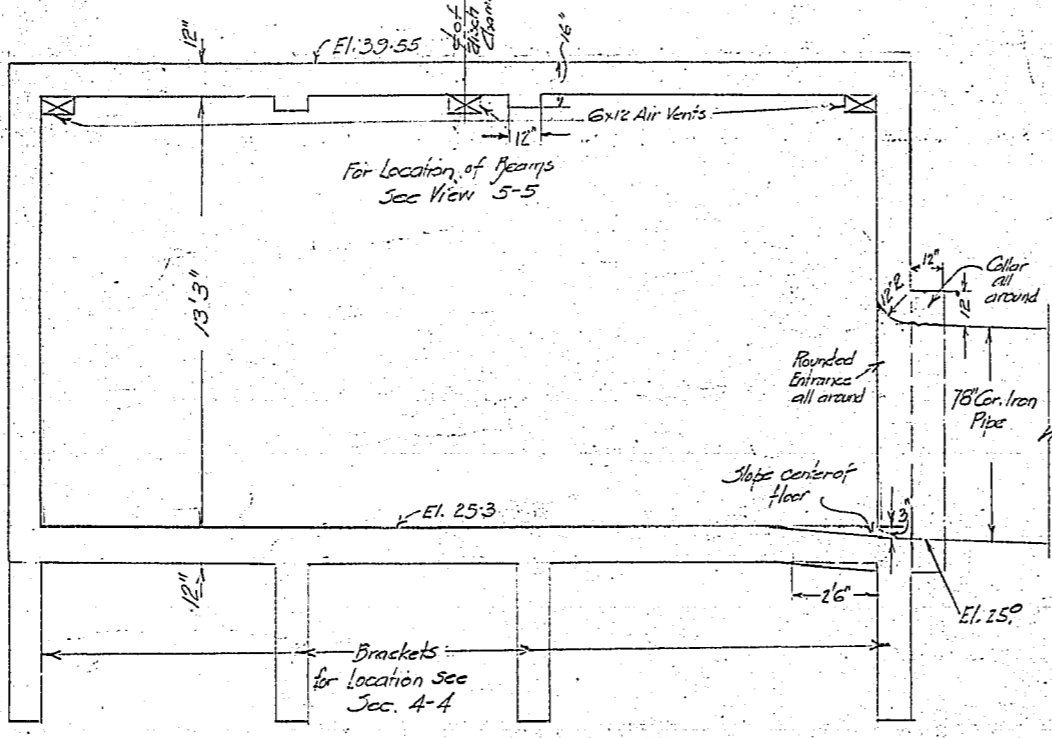
REVISIONS				
No.	BY	DATE	REASON	REC.
1	J.A.B.	14 APRIL '55	REVISED	

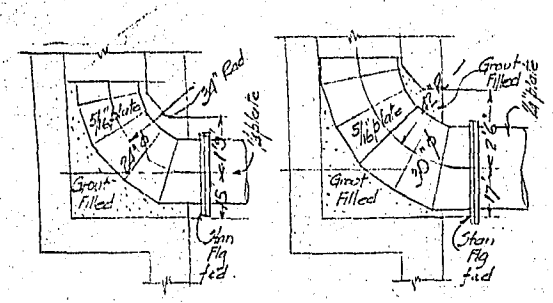






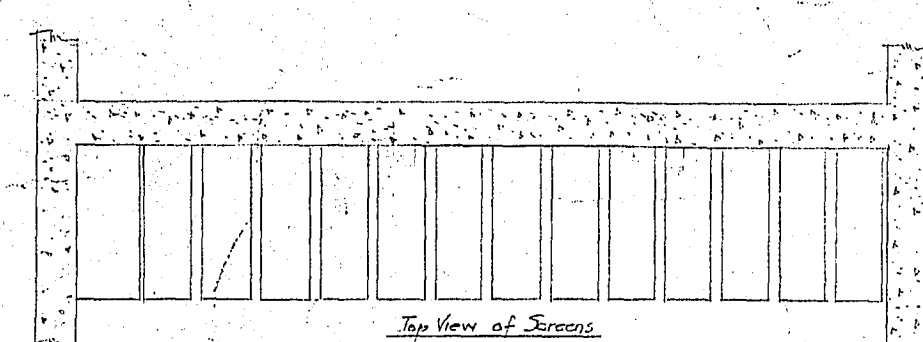
Section 8-8  
Shows ladder - supports not shown  
Scale 1/4" = 1'-0"





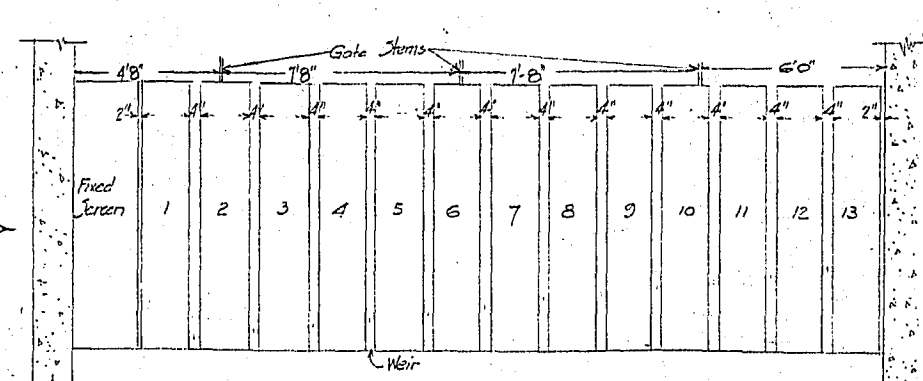
Pump Discharges

Detail 1



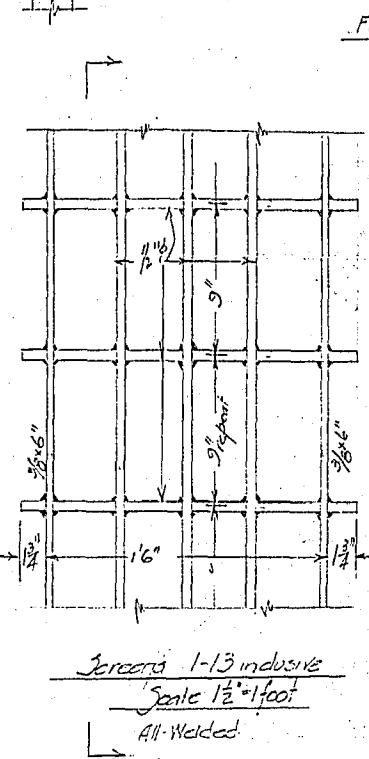
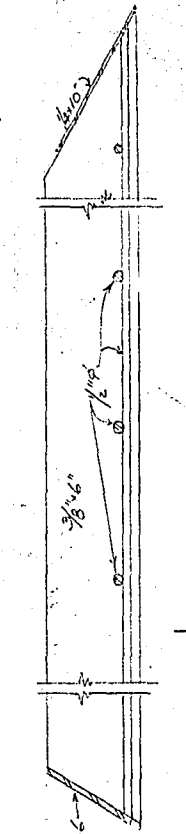
Top View of Screens

Scale 3/4" = 1' foot



Front View of Screens

Scale 3/4" = 1' foot



Screens 1-13 inclusive

Scale 1 1/2" = 1' foot

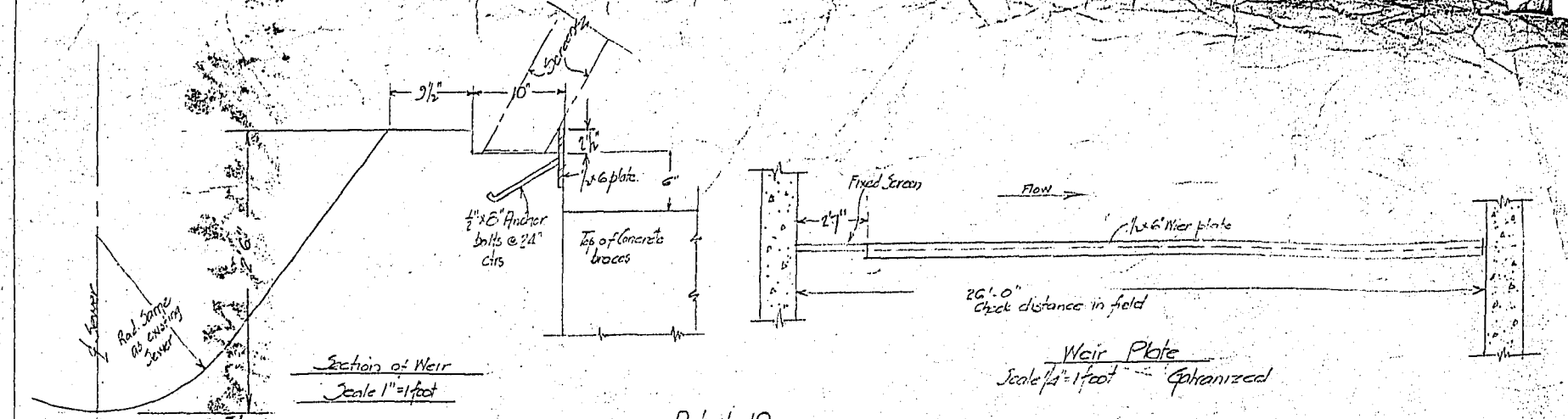
All Welded

Screens

Scales as shown

Screens Galv. all over

Check in field clearance between weirs



Section of Weir

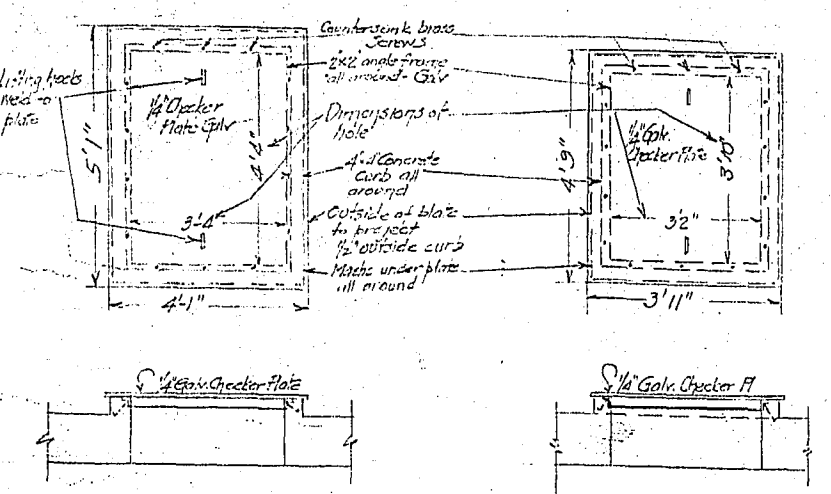
Scale 1" = 1' foot

Detail 10

Weir Plate

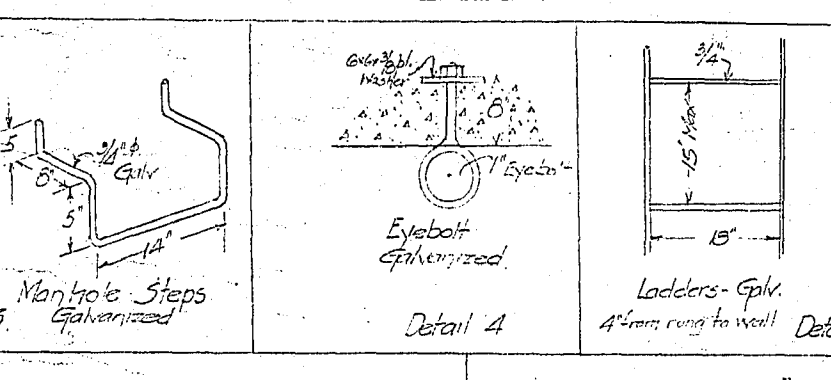
Scale 3/4" = 1' foot

Galvanized



Detail 2

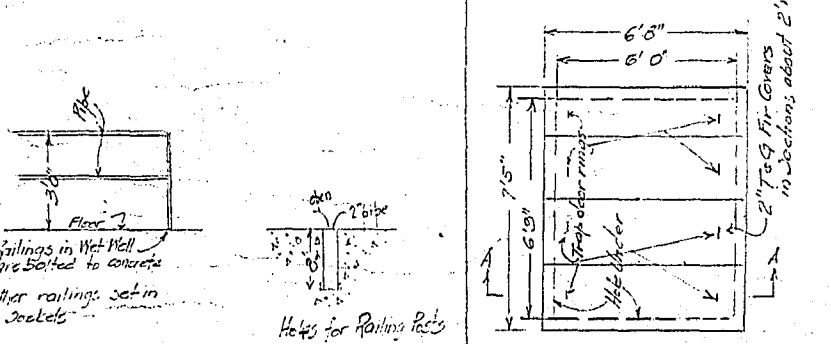
Plates in concrete frame Discharge Scales 3/4" = 1' foot  
 Required for 30 pumps 1 required for 24 pumps



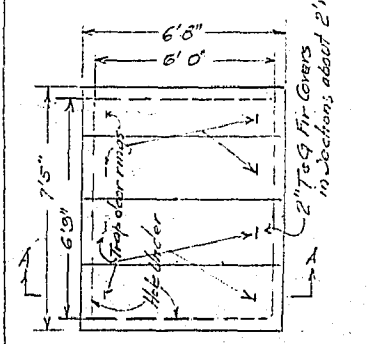
Detail 3

Detail 4

Detail 5



Detail 6

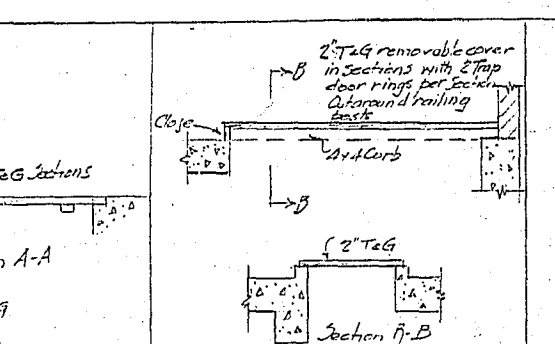


Detail 7

Wooden Cover

Top Floor El. 35.5

Scale 1/4" = 1' foot

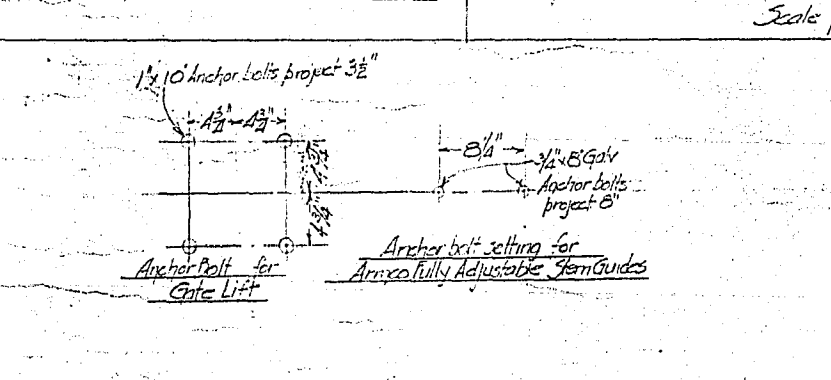


Detail 8

Wooden Cover Stairwell

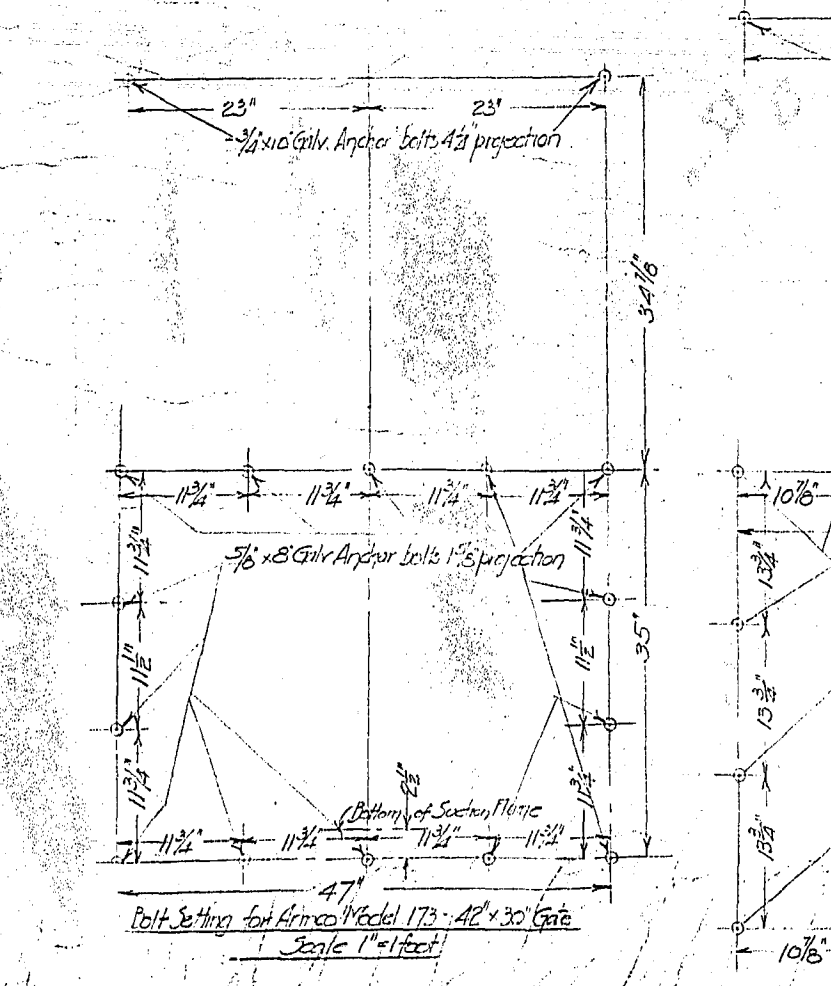
El. 35.5

Scale 1/4" = 1' foot



Detail 9

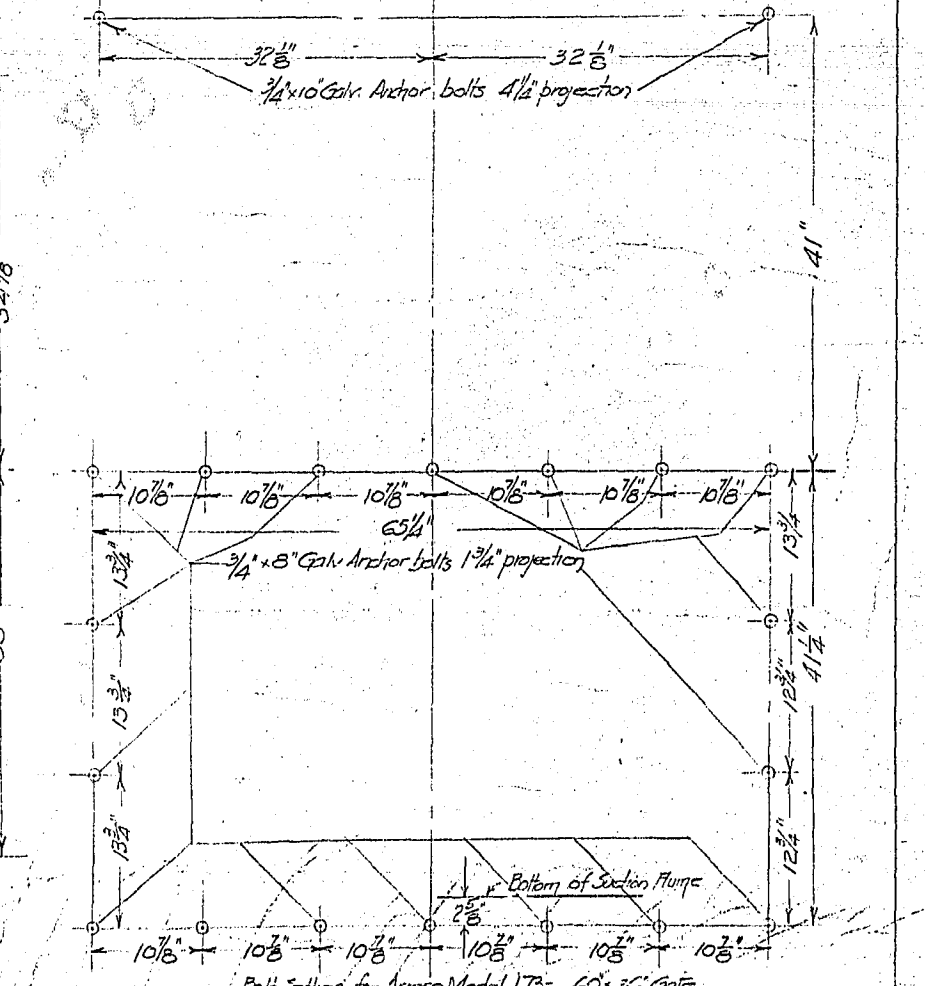
Anchor Bolt Setting for Gate List



Detail 10

Bolt Setting for Armo Model 173 - 46" x 30" Gate

Scale 1" = 1' foot



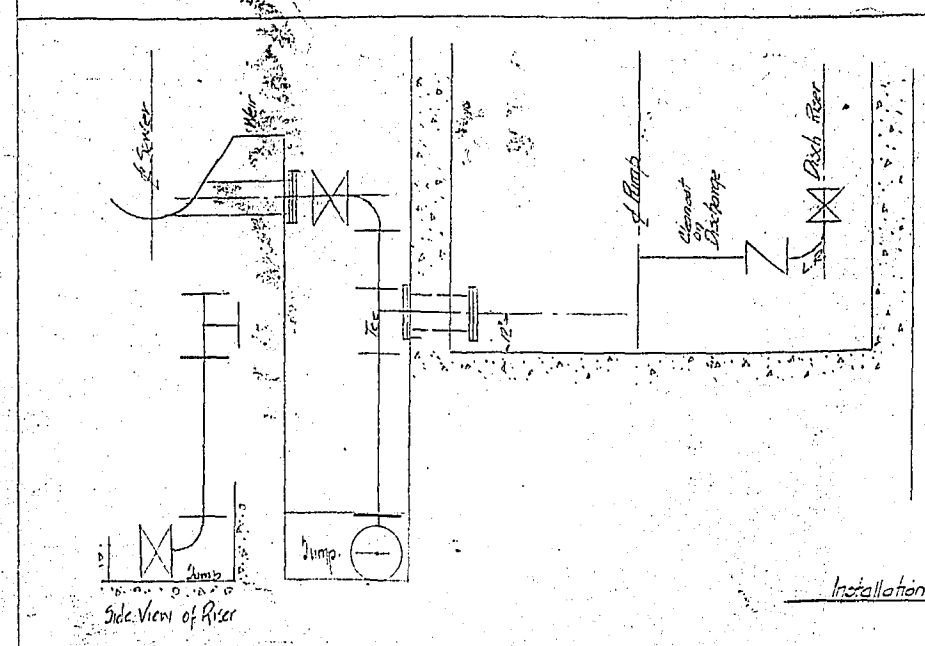
Detail 11

Bolt Setting for Armo Model 173 - 60" x 36" Gate

Scale 1" = 1' foot

1/2" Gauge steel end gable between gate frame & concrete

Check with Gate Manufacturer before installing bolts or gates



Detail 11

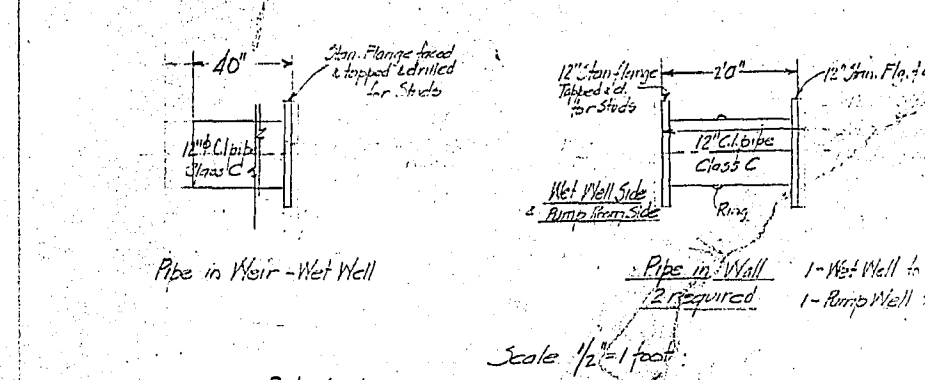
Side View of Pump

Scale 3/4" = 1' foot

Installation of Future 3000 Gpm Pumps

Scale 3/4" = 1' foot

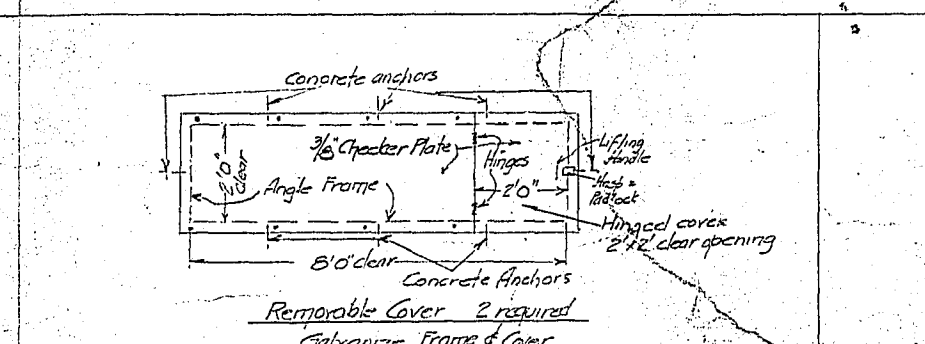
See 683-6



Detail 12

Pipe in Weir - Wet Well

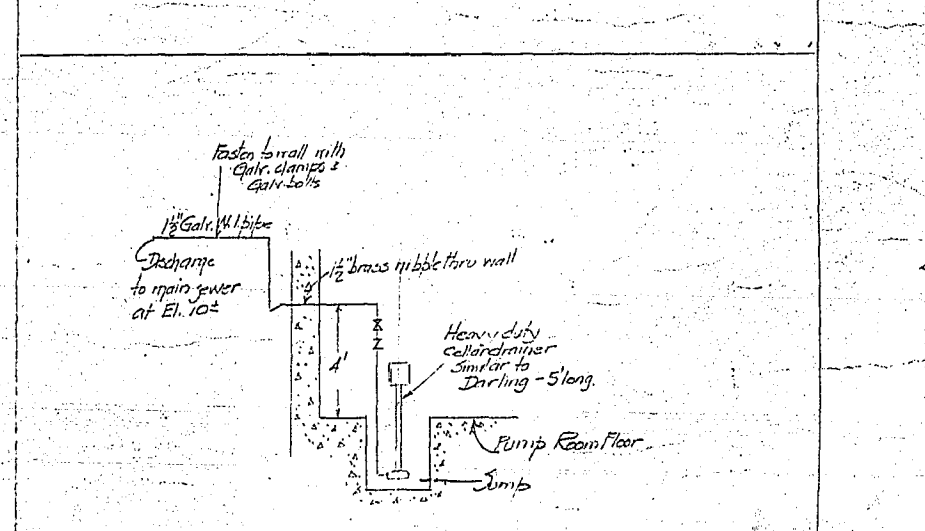
Scale 1/2" = 1' foot



Detail 16

Removable Cover 2 required

Galvanized Frame & Cover



Detail 17

Sump Pump

Wet to Scale

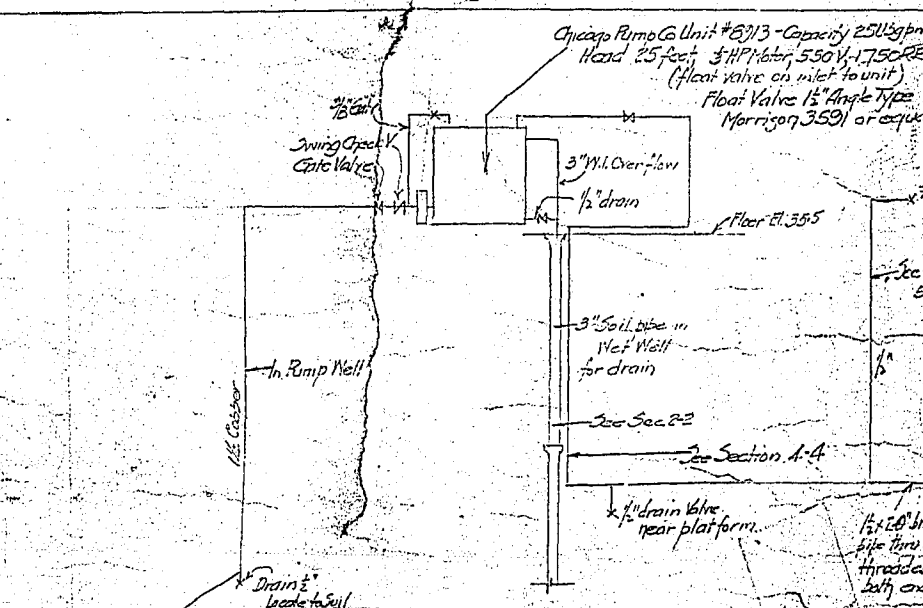
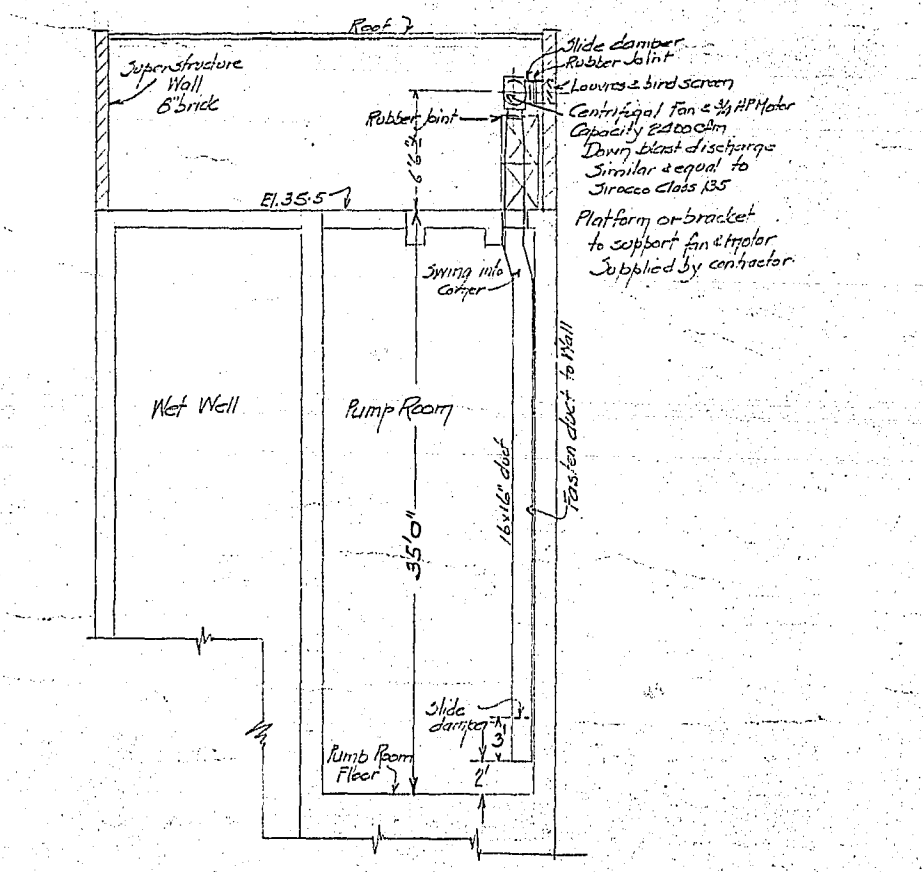


Diagram of Seal Water Supply for Pumps

Not to Scale



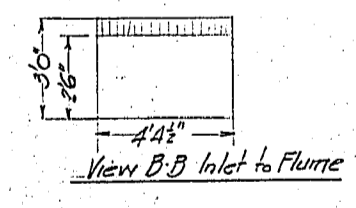
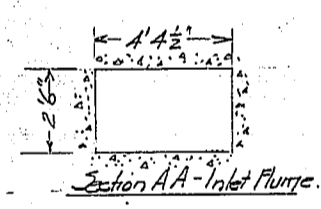
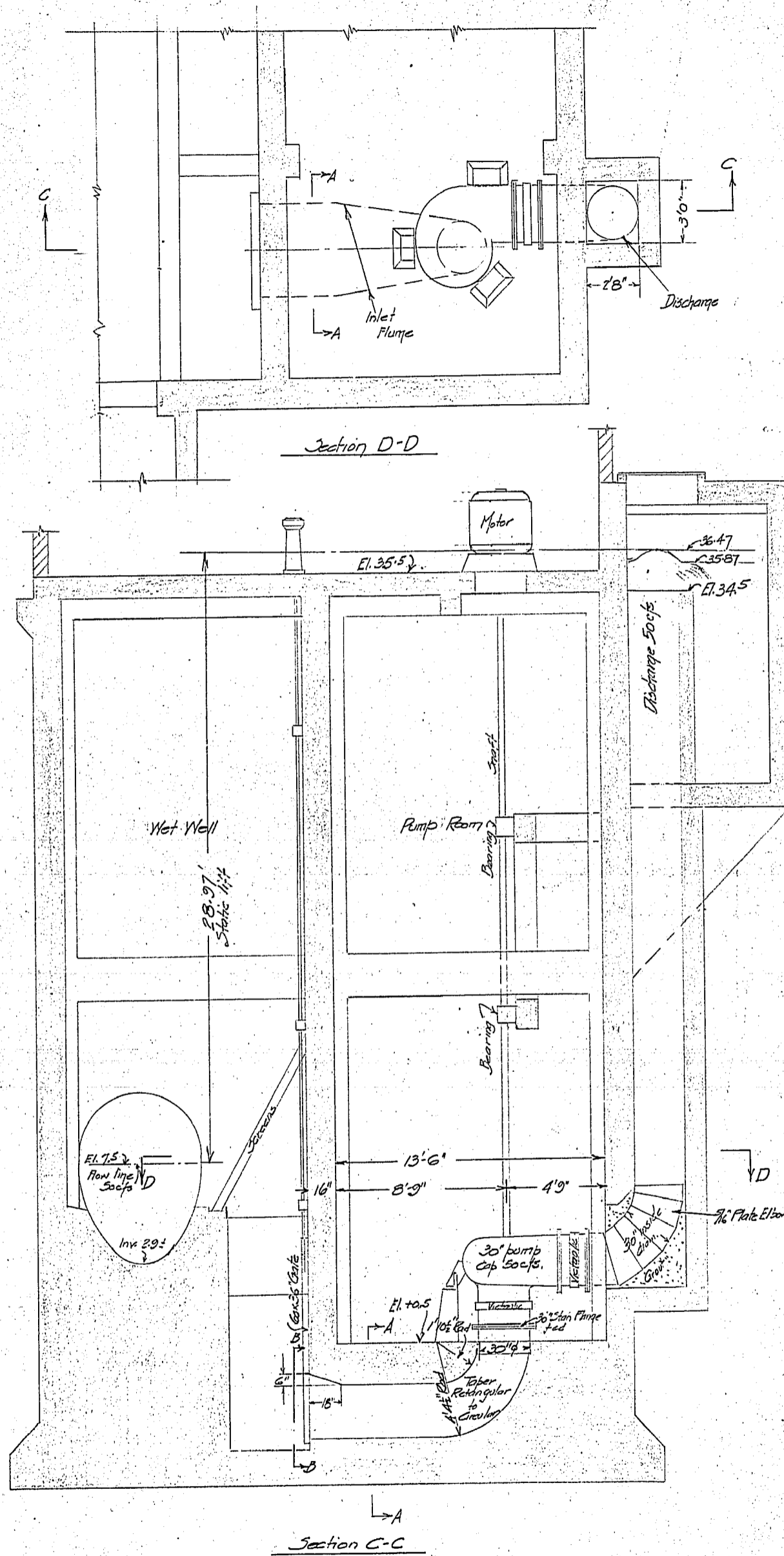
Ventilation

Scale 1/2" = 1' foot





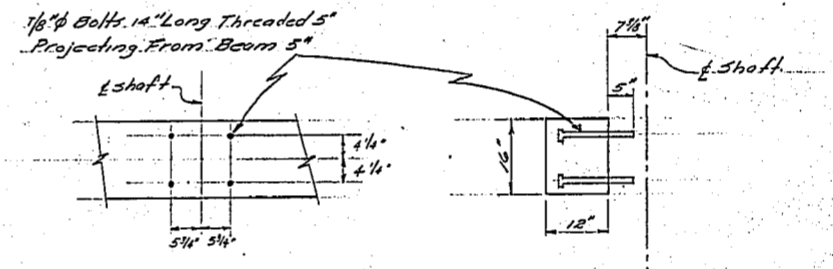
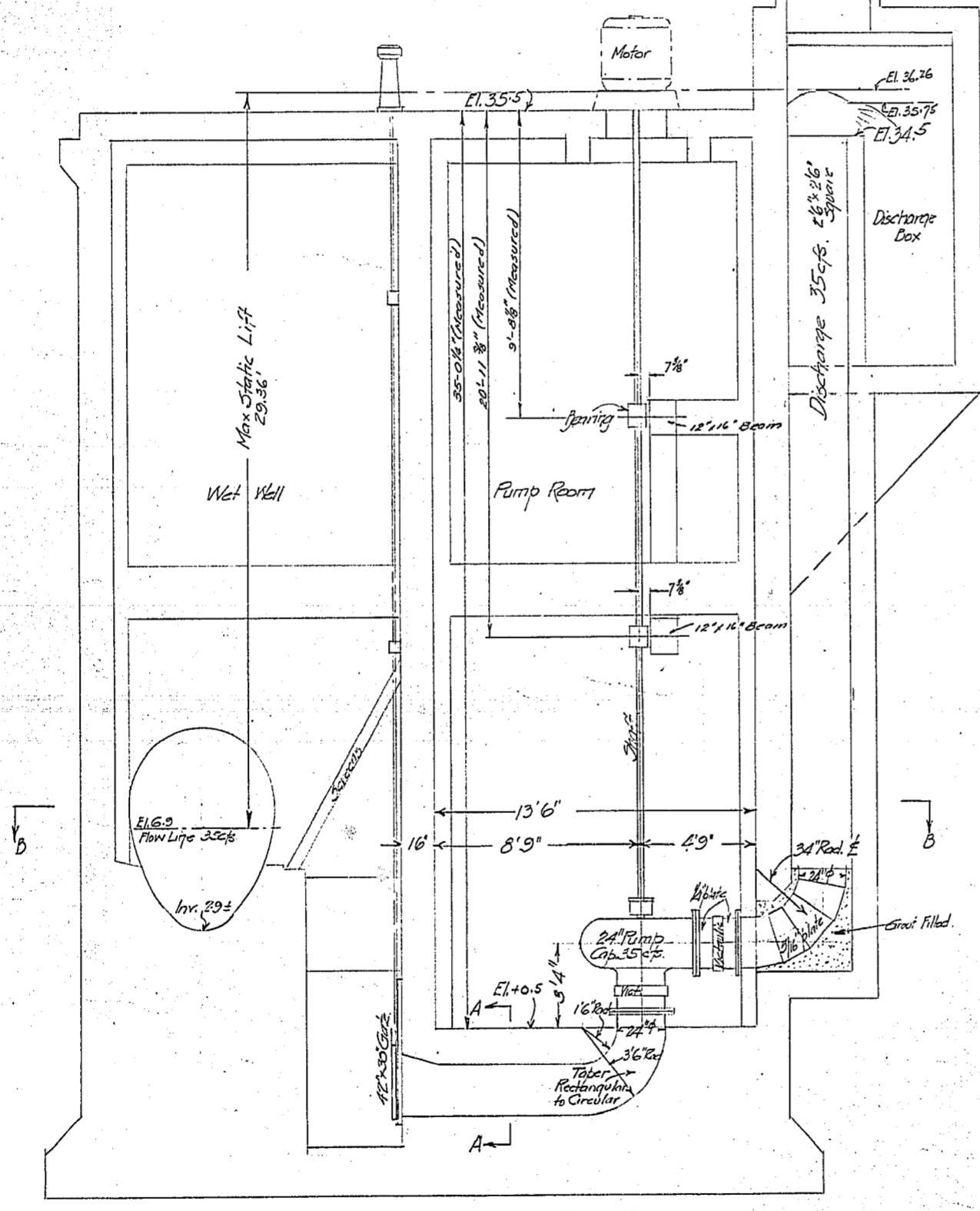
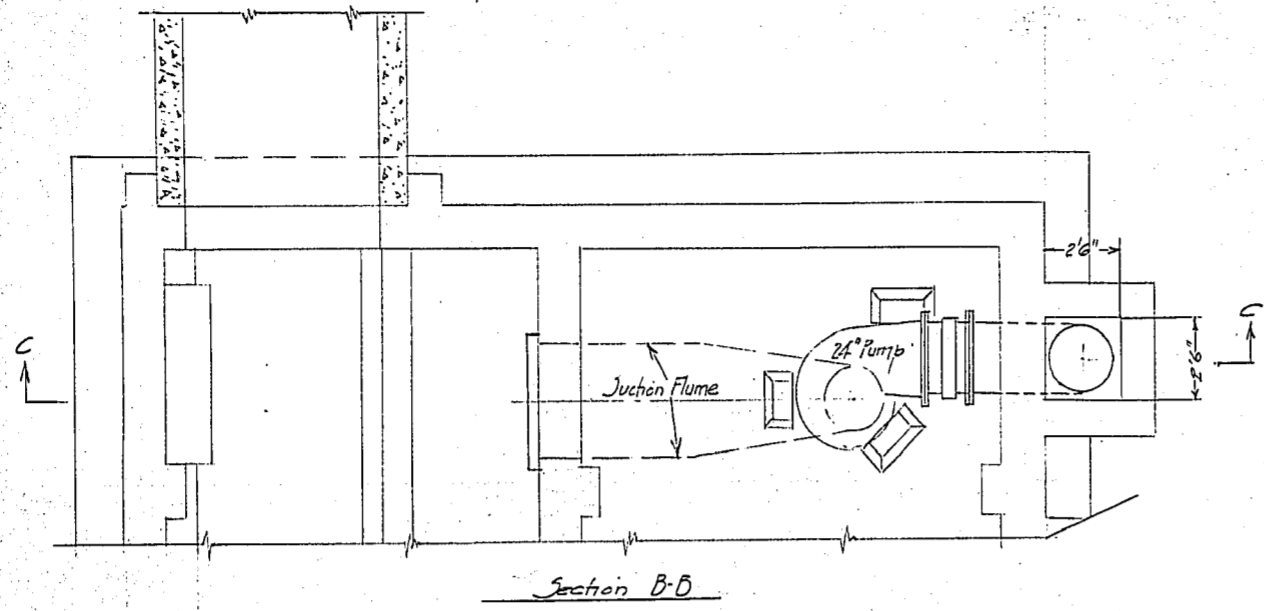




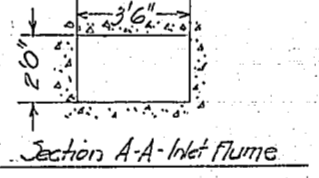
2 pumps each 50 cfs = 27500 US gpm = 18700 Imp Gpm.

This drawings shows information for design of impeller, shafting & motor

JESSIE AVENUE FLOOD PUMPING STATION Pump Alteration Data.	CITY OF WINNIPEG ENGINEERING DEPARTMENT		DRAWN BY <i>W.D.H.</i> DATE <i>Oct. 14, 1958</i>	SCALE <i>1/2" = 1' - 0"</i>
	W. D. HURST, CITY ENGINEER		CHECKED BY <i>A.J.S.</i>	BY <i>W.D.H.</i>
	A. J. S. TAUNTON, DEPUTY CITY ENGINEER		APPROVED <i>W.D.H.</i>	683-9 R-115



Detail of Anchor Bolts For Bracket  
To Carry Steady Bearing.  
Scale - 1/4" = 1'-0"



City datum 0-00 = Can. Gazette 727-54  
Elevations shown are City Datum

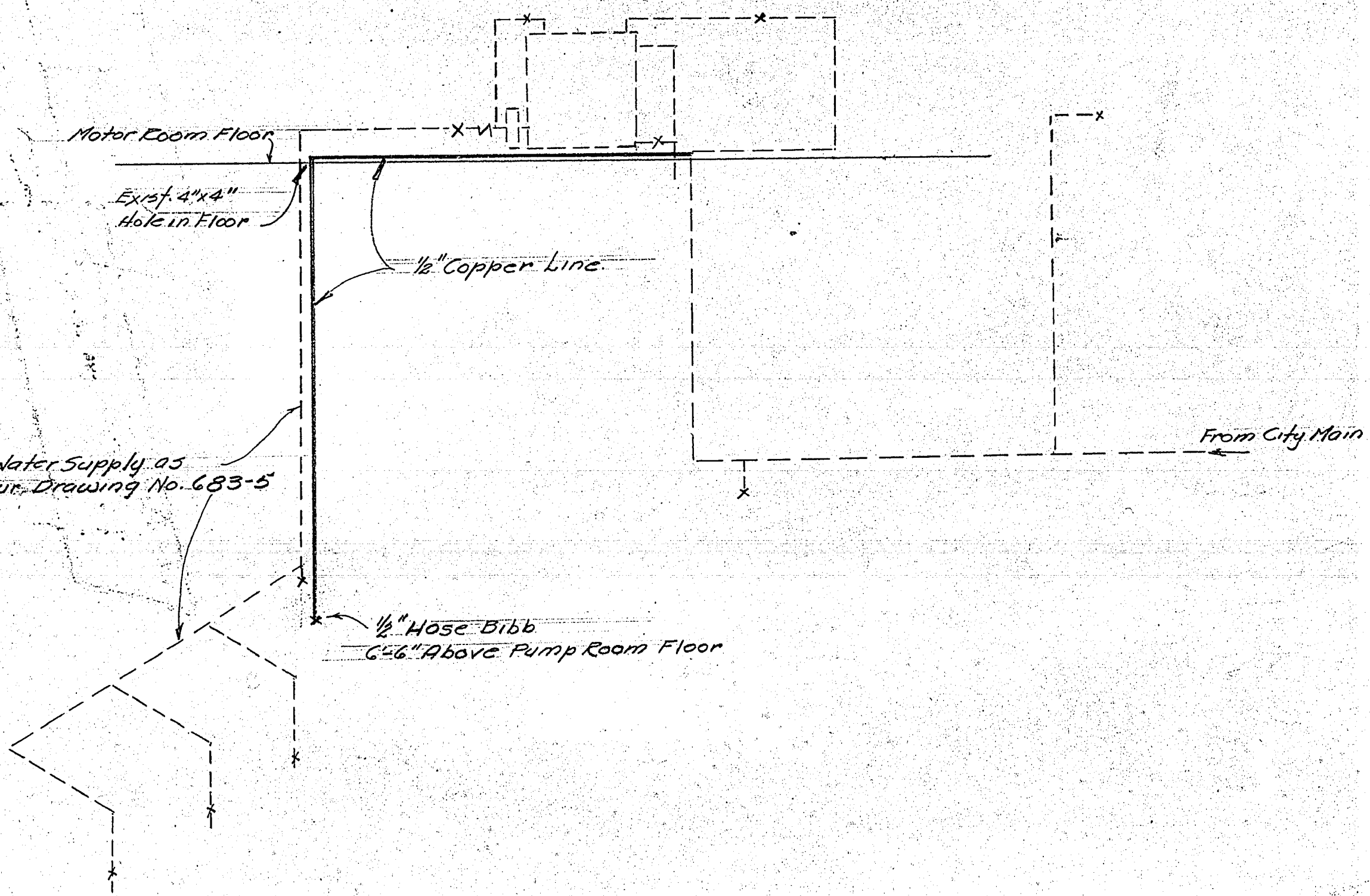
REVISIONS			
NO.	BY	DATE	REF.
1	M.H.B.	June 15/55	Location of Bearing Beams of Anchor Bolts As Constructed

JESSIE AVENUE FLOOD PUMPING STATION  
24" Pump Installation

CITY OF WINNIPEG  
ENGINEERING DEPARTMENT  
W. D. HUPST, CITY ENGINEER  
A. J. S. TAUNTON, DEPUTY CITY ENGINEER

DRAWN BY..... DATE.....  
TRACED BY.....  
CHECKED BY.....  
APPROVED.....

R-116  
SCALE  
1/4" = 1' foot  
DRAWING NO.  
683-10



See Water Supply as  
Shown on our Drawing No. 683-5

JESSIE AVE. PUMPING STA.  
DIAGRAM OF WATER  
LINE TO PUMP ROOM

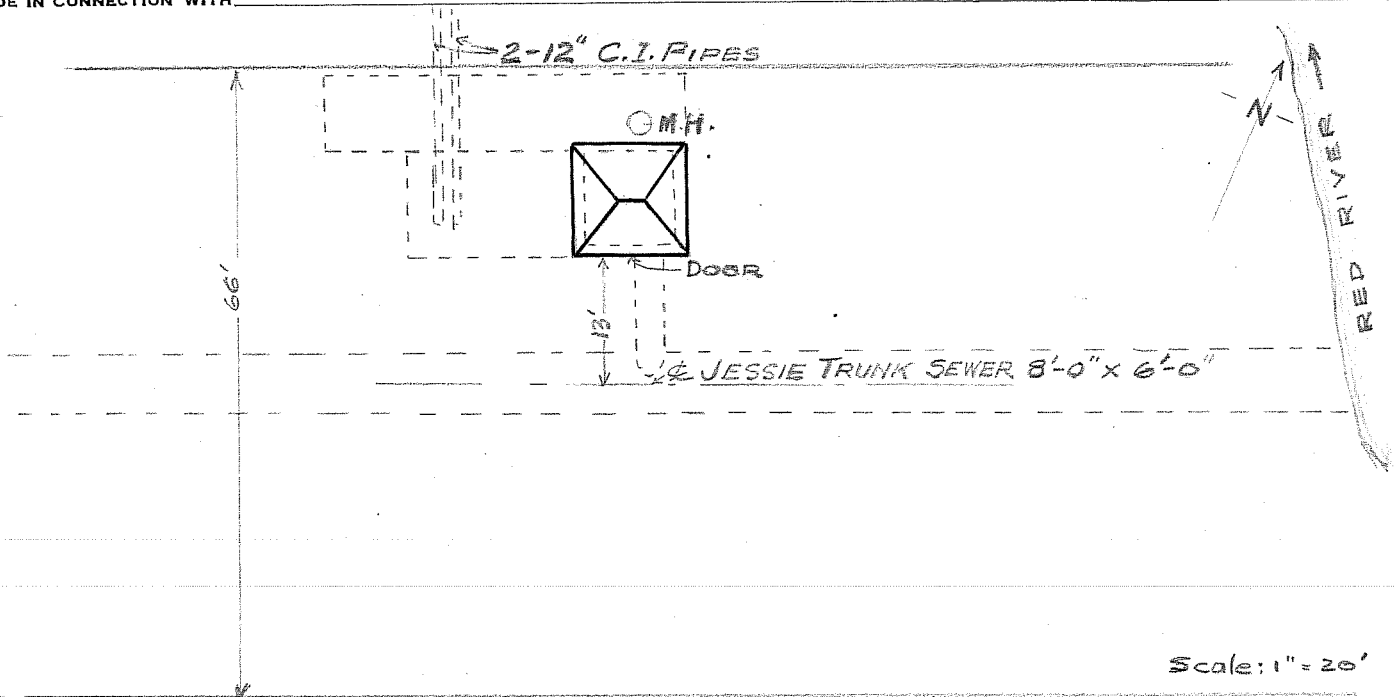
CITY OF WINNIPEG  
ENGINEERING DEPT.  
W. D. HURST, CITY ENGINEER  
A. J. S. TAUNTON, DEPUTY CITY ENGINEER

DRAWN BY M.H.B. DATE 29-7-55  
TRACED BY .....  
CHECKED BY [Signature]  
APPROVED [Signature]

SCALE  
N.T.S.  
DRAWING No.  
683-11

R-117

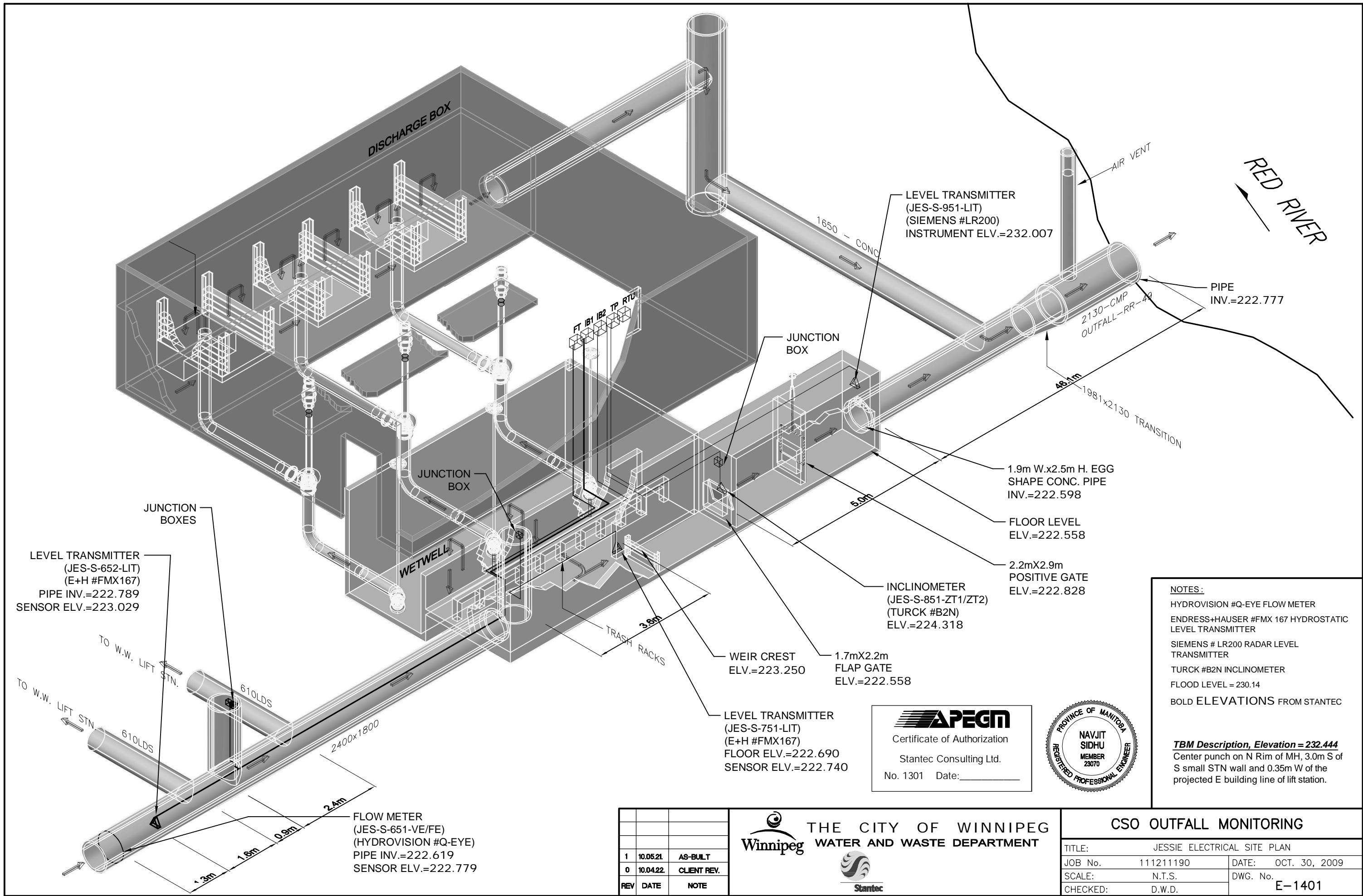
MADE IN CONNECTION WITH \_\_\_\_\_



Scale: 1" = 20'

LOCATION - ON WINNIPEG STREET - gravelled. East of C.N.R. tracks

SUPERSTRUCTURE - 'Rugtex' Face Brick - Tyndall Limestone Trim.



**NOTES:**  
 HYDROVISION #Q-EYE FLOW METER  
 ENDRESS+HAUSER #FMX 167 HYDROSTATIC LEVEL TRANSMITTER  
 SIEMENS # LR200 RADAR LEVEL TRANSMITTER  
 TURCK #B2N INCLINOMETER  
 FLOOD LEVEL = 230.14  
 BOLD ELEVATIONS FROM STANTEC

**TBM Description, Elevation = 232.444**  
 Center punch on N Rim of MH, 3.0m S of S small STN wall and 0.35m W of the projected E building line of lift station.

**APEGM**  
 Certificate of Authorization  
 Stantec Consulting Ltd.  
 No. 1301 Date: \_\_\_\_\_



REV	DATE	NOTE
1	10.05.21	AS-BUILT
0	10.04.22	CLIENT REV.

**THE CITY OF WINNIPEG**  
**WATER AND WASTE DEPARTMENT**

TITLE: JESSIE ELECTRICAL SITE PLAN	
JOB No. 111211190	DATE: OCT. 30, 2009
SCALE: N.T.S.	DWG. No. E-1401
CHECKED: D.W.D.	

Jessie: Elevation of "Bolt"  
BM = 232.606

**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 :**
- HYDROVISION #Q-EYE FLOW METER
  - ENDRESS+HAUSER #FMX 167 HYDROSTATIC LEVEL TRANSMITTER
  - RST INSTRUMENTS #ICEX360A INCLINOMETER
  - SIEMENS # LR200 RADAR LEVEL TRANSMITTER
  - FLOOD LEVEL = 230.14
  - BOLD ELEVATIONS FROM STANTEC

CITY OF WINNIPEG TO REPLACE EXISTING INSTRUMENT AND JUNCTION BOX TAGS TO MATCH TAGS ON DRAWINGS

**TBM Description. Elevation = 232.444**  
Center punch on N Rim of MH, 3.0m S of S small STN wall and 0.35m W of the projected E building line of lift station.

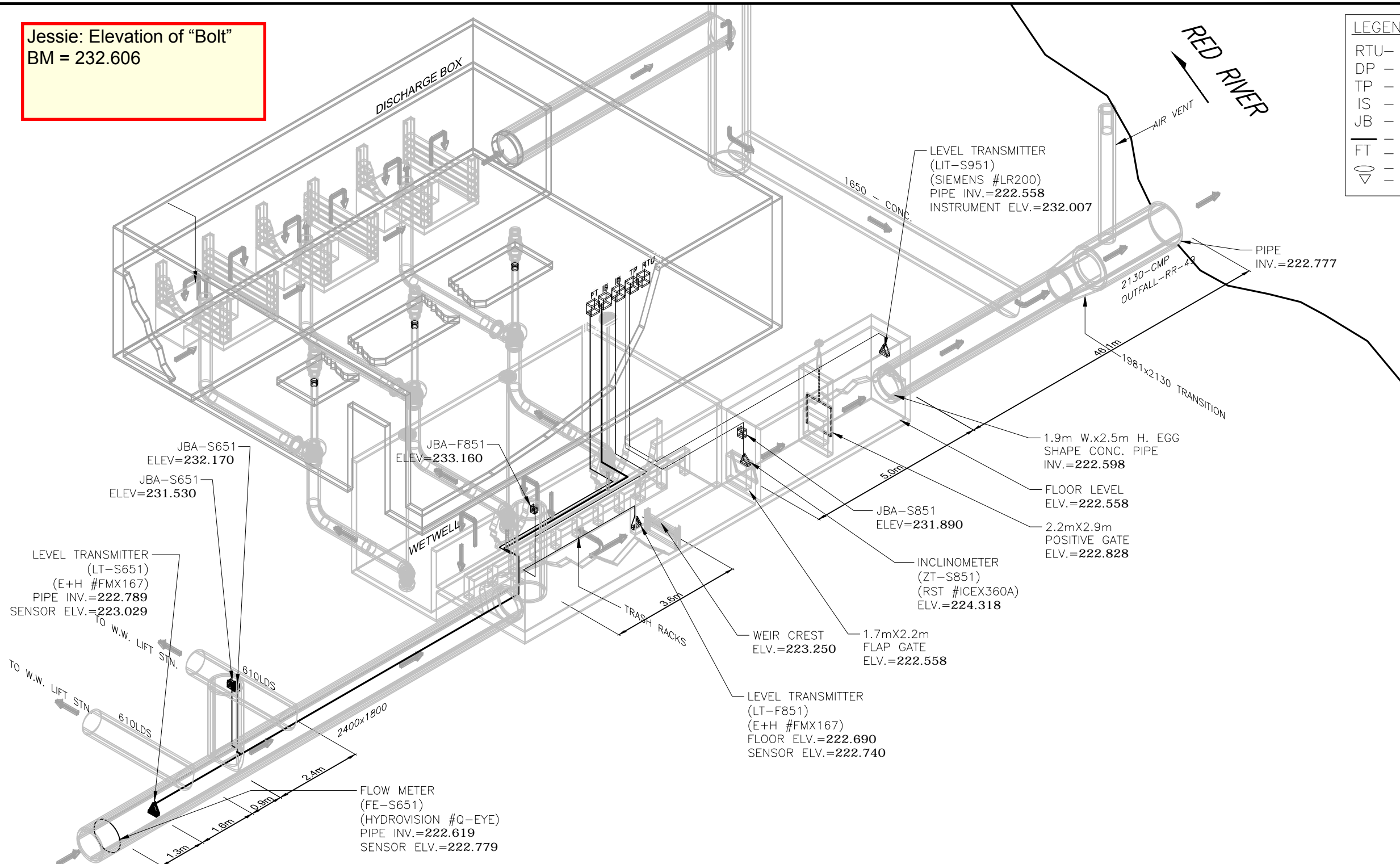
**WARNING**

- 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.

B.M. ELEV.	NO.	REVISIONS	DATE	BY

**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	

ENGINEER'S SEAL

CONSULTANT DRAWING NO.  
**E-1401**

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

**CSO OUTFALL MONITORING**  
JESSIE  
3D ISOMETRIC PLAN

SHEET	OF
1	2
CAD FILE DRAWING NUMBER 14720e-1401-jes.dwg	
CITY DRAWING NUMBER <b>I-0149-A-A0202-001-00</b>	

\\CD1201-F02\work\_group\1112\active\111214720\0300\_drawing\0302\_sheet\_files\08\_electrical\Phase 1 And Phase 2 New Drawings\Phase 2 Drawings\jessie\14720e-1401-jes.dwg 2015/04/16 10:15 AM By: Bekker, Kyle

\\CD1201-F02\work\_group\1112\active\111214720\0300\_drawing\0302\_sheet\_files\08\_electrical\Phase 1 And Phase 2 New Drawings\Phase 2 Drawings\jessie\14720e-1401-jes.dwg  
 2015/04/16 10:15 AM By: Bekker, 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 :**

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- RST INSTRUMENTS #ICEX360A INCLINOMETER
- SIEMENS # LR200 RADAR LEVEL TRANSMITTER
- FLOOD LEVEL = 230.14
- BOLD ELEVATIONS FROM STANTEC

CITY OF WINNIPEG TO REPLACE EXISTING INSTRUMENT AND JUNCTION BOX TAGS TO MATCH TAGS ON DRAWINGS

**TBM Description. Elevation = 232.444**  
 Center punch on N Rim of MH, 3.0m S of S small STN wall and 0.35m W of the projected E building line of lift station.

### WARNING

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

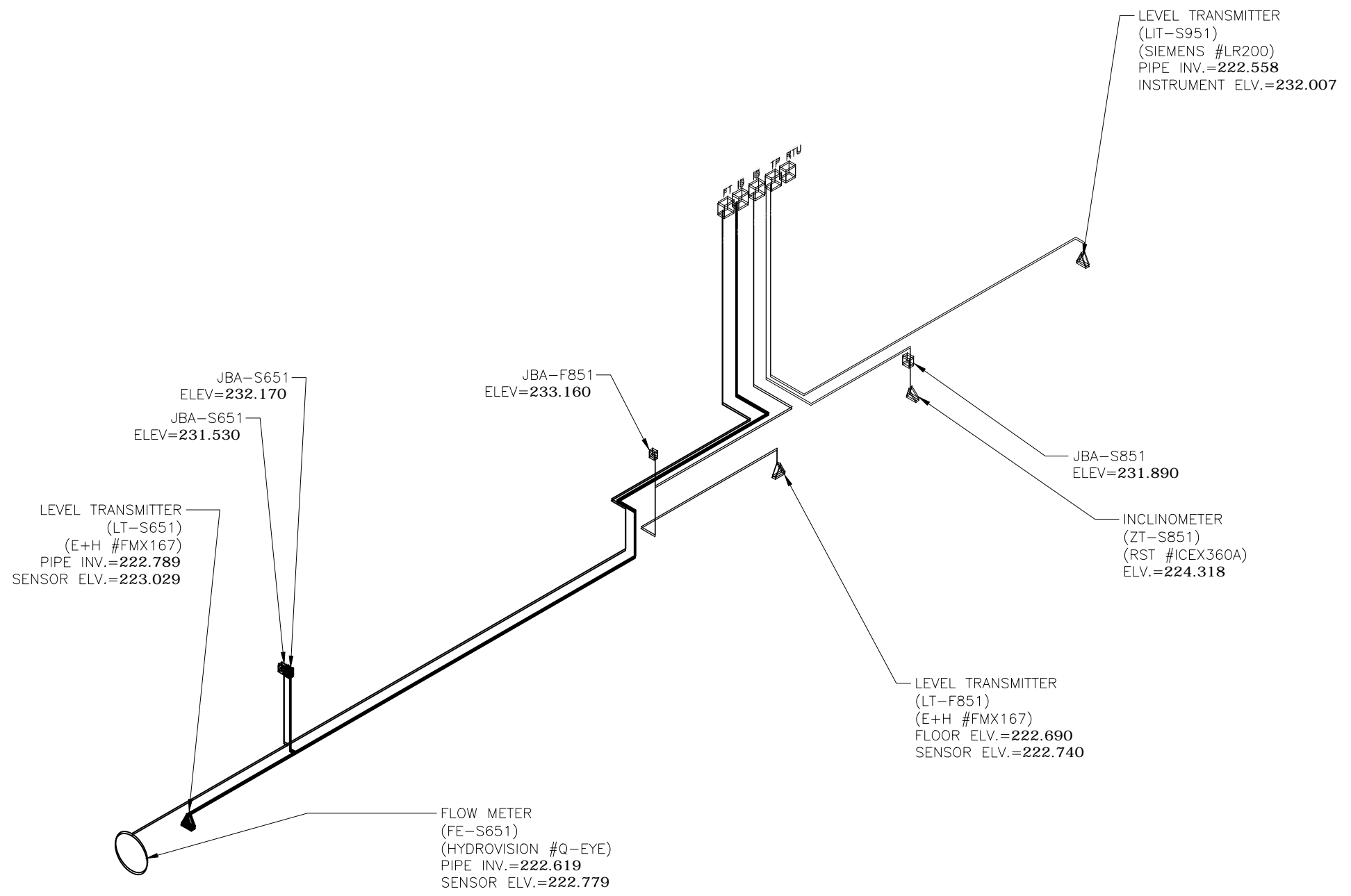
- 1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
- 2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.

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

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B.M. ELEV.	NO.	REVISIONS	DATE	BY
	C	AS-BUILT DRAWING	15.04.16	J.C.
	B	ISSUED FOR CLIENT REVIEW	15.02.11	J.C.
	A	ISSUED FOR CLIENT REVIEW	14.01.15	J.C.

**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	2014.01.09	DATE	

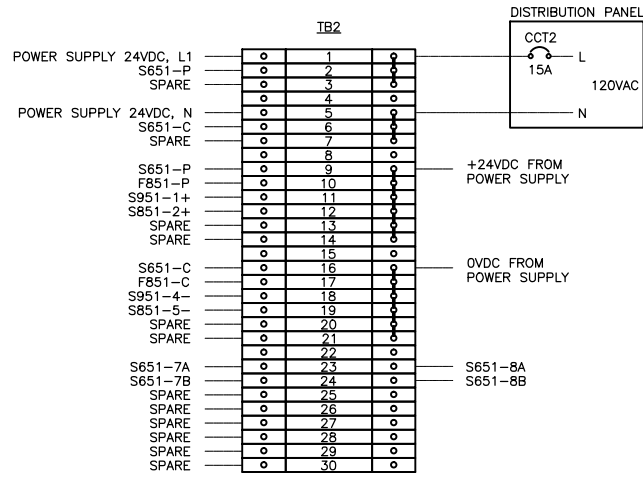
ENGINEER'S SEAL

CONSULTANT DRAWING NO.  
**E-1401**

**THE CITY OF WINNIPEG**  
**WATER AND WASTE DEPARTMENT**

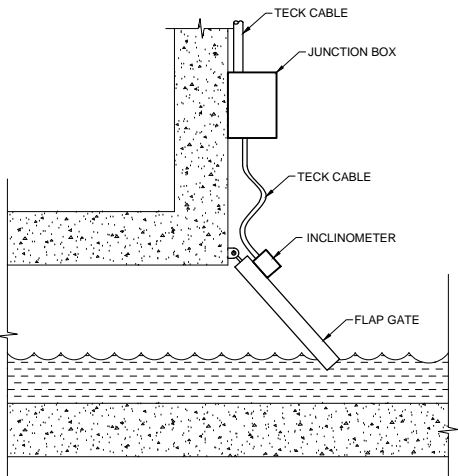
CSO OUTFALL MONITORING	SHEET OF	2 OF 2
JESSIE	CAD FILE DRAWING NUMBER	14720e-1401-jes.dwg
3D ISOMETRIC PLAN	CITY DRAWING NUMBER	I-0149-A-A0202-002-00

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 2015/09/10 10:37 AM By: Bekker, Kyle

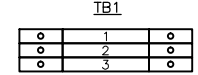


- NOTES**
- 1) TERMINAL BLOCKS WEIDMULLER #WDU4
  - 2) FUSED TERMINAL BLOCKS WEIDMULLER #WSI6:  
 TERMINAL BLOCK 1, C/W FUSE 1A  
 TERMINAL BLOCK 2, C/W FUSE 1A  
 TERMINAL BLOCK 3, C/W FUSE 1A  
 TERMINAL BLOCK 9, C/W FUSE 500mA  
 TERMINAL BLOCK 10, C/W FUSE 500mA  
 TERMINAL BLOCK 11, C/W FUSE 500mA  
 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

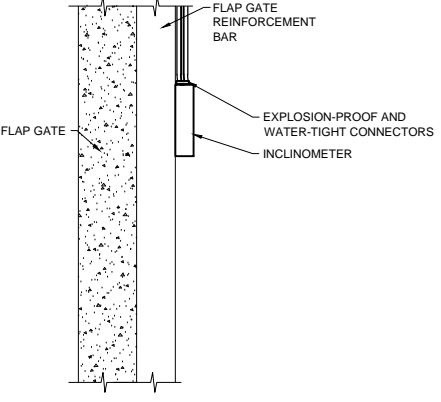
**TB2 STRIP DETAIL**



**ELEVATION VIEW**



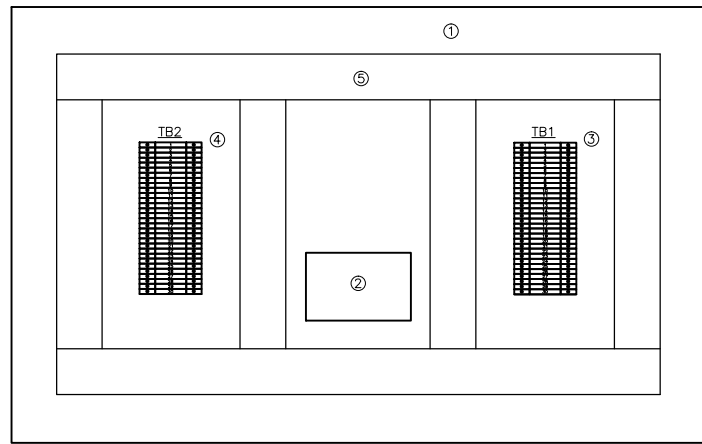
**TB1 STRIP DETAIL**



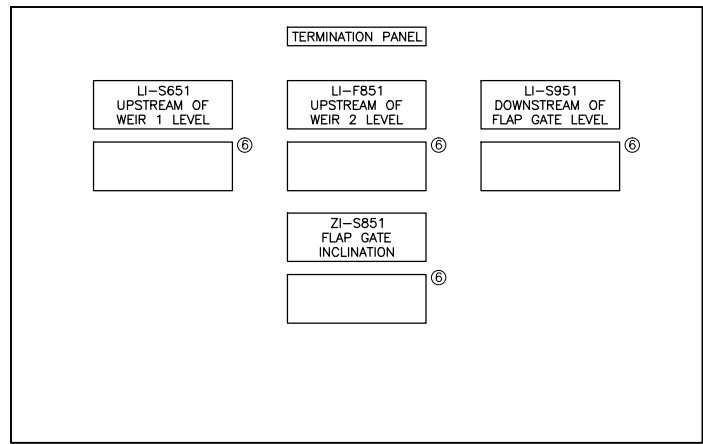
**PLAN VIEW**

- 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**



**TERMINATION PANEL LAYOUT**



**TERMINATION PANEL DETAIL**

- LEGEND**
- 1) HOFFMAN #CSD20248 TYPE 12 ENCLOSURE C/W PANEL #CP2024
  - 2) WEIDMULLER #9927480024 POWER SUPPLY 24VDC, 2.3A
  - 3) TB1 TERMINAL BLOCKS STRIP. SEE DETAIL.
  - 4) TB2 TERMINAL BLOCKS STRIP. SEE DETAIL.
  - 5) PANDUIT #E1X2L66 WIRE DUCT C/W COVER #C1LG6
  - 6) SIEMENS #7ML5741 DIGITAL INDICATOR

No.	INSTRUMENT TAG	DESCRIPTION	MANUFACTURER	MODEL	PLC I/O TYPE	POWER SUPPLY	LOCATION
1	FIT-S651	ULTRASONIC FLOW METER	HYDROVISION	Q-EYE PSC	3X AI, 1XDI	24VDC	UPSTREAM OF WEIR
2	LT-S651	HYDROSTATIC LEVEL TRANSMITTER	ENDRESS+HAUSER	FMX167	1X AI	24VDC	UPSTREAM OF WEIR 1
3	LT-F851	HYDROSTATIC LEVEL TRANSMITTER	ENDRESS+HAUSER	FMX167	1X AI	24VDC	UPSTREAM OF WEIR 2
4	ZT-S851	INCLINATION TRANSMITTER	RST INSTRUMENTS	ICEX360A	1X AI	24VDC	FLAP GATE
5	LIT-S951	RADAR LEVEL TRANSMITTER	SIEMENS	LR200	1X AI	24VDC	DOWNSTREAM OF FLAP GATE

**INSTRUMENT LIST**

No.	CABLE TAG	FROM	TO	DESCRIPTION	MANUFACTURER	CATALOG No.	NOTE
1	CA-S651-1	FE-S651	JBA-S651				SENSOR CABLE
2	CA-S651-2	JBA-S651	FIT-S651	#16 AWG, 2-TRIAD, TWISTED, SHIELDED	TEXCAN	C3-9336-1602-19	SENSOR CABLE
3	CA-S651-3	FIT-S651	TERMINATION PANEL	#16 AWG, 4-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1604-19	3X AI TO RTU
4	CA-S651-4	FIT-S651	TERMINATION PANEL	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	1X DI TO RTU
5	C-S651-5	FIT-S651	TERMINATION PANEL	#14 AWG, 2C, TECK 90	TEXCAN	05001-01-010	POWER 120VAC
6	CA-S651-1	LT-S651	JBA-S651	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
7	CA-S651-2	JBA-S651	LY-S651	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
8	CA-S651-3	LY-S651	TERMINATION PANEL	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
9	CA-F851-1	LT-F851	JBA-F851	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
10	CA-F851-2	JBA-F851	LY-F851	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
11	CA-F851-3	LY-F851	TERMINATION PANEL	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
12	CA-S851-1	ZT-S851	JBA-S851	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
13	CA-S851-2	JBA-S851	TERMINATION PANEL	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
14	CA-S951-1	LIT-S951	TERMINATION PANEL	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
15	C-TP1	DISTRIBUTION PANEL	TERMINATION PANEL	#12 AWG, 2C, TECK 90	TEXCAN	05002-01-010	POWER 120VAC

**CABLE LIST**

**NOTE**

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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

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NO.	REVISIONS	DATE	BY
C	AS BUILT DRAWING	15.04.30	J.C.
B	ISSUED FOR CONSTRUCTION	14.07.24	J.C.
A	ISSUED FOR CLIENT REVIEW	14.06.05	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-1402**

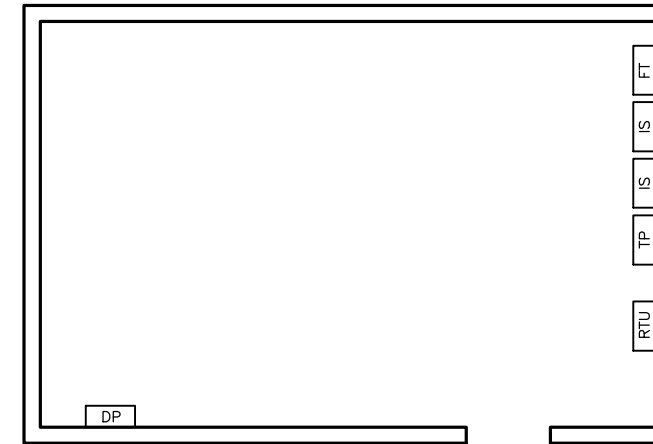
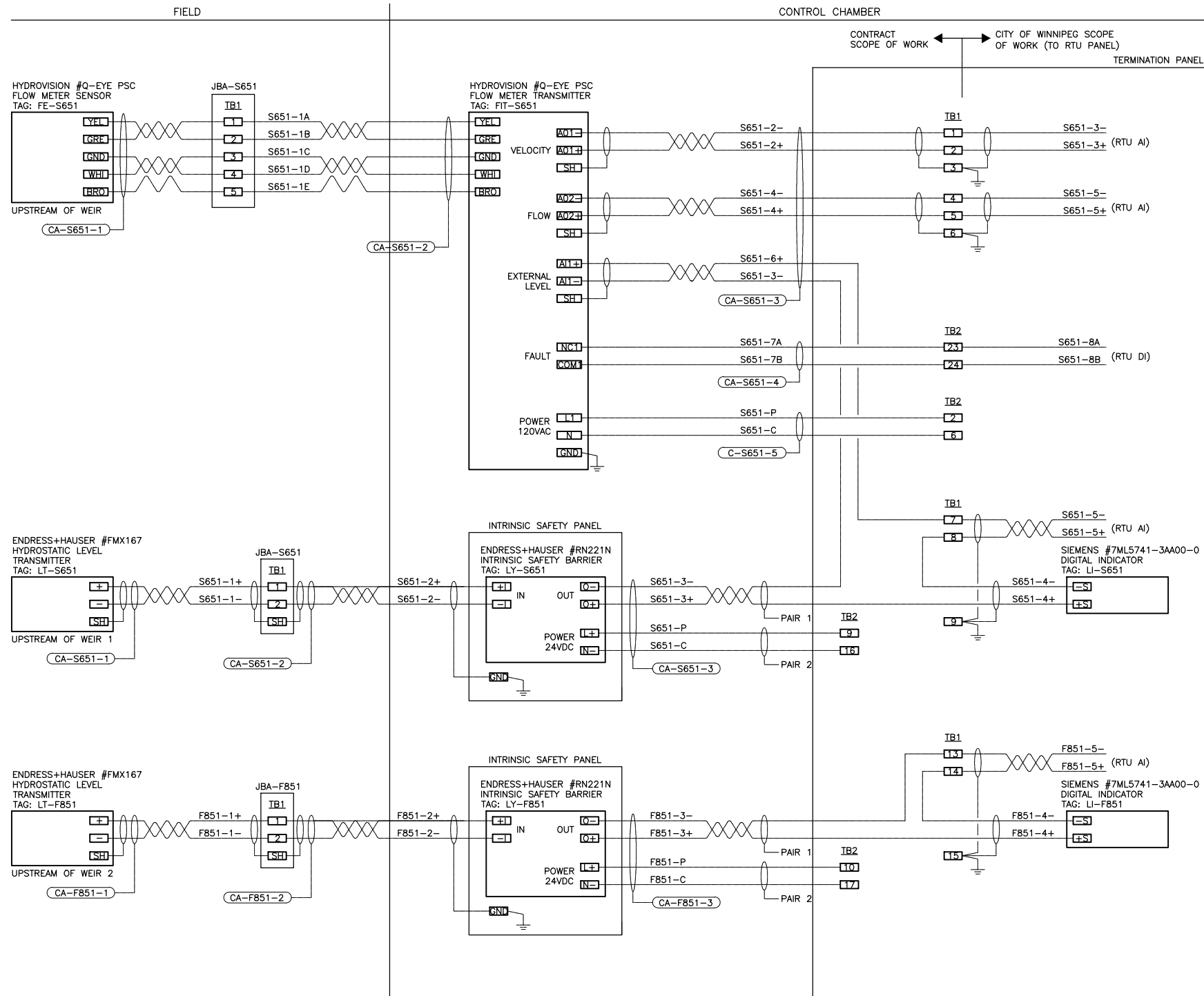
**THE CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT

**CSO OUTFALL MONITORING**  
 JESSIE  
 TERMINATION PANEL LAYOUT  
 INSTRUMENT LIST, CABLE LIST

SHEET	OF
I	I
CAD FILE DRAWING NUMBER 14720e-1402-jes.dwg	
CITY DRAWING NUMBER <b>I-0149-A-A0203-001-00</b>	



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 2015/09/10 10:37 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 PANELS AND FLOW METER TRANSMITTER.
- 2) GROUND INSTRUMENTATION CABLE SHIELDS ONLY AT TERMINATION PANEL.

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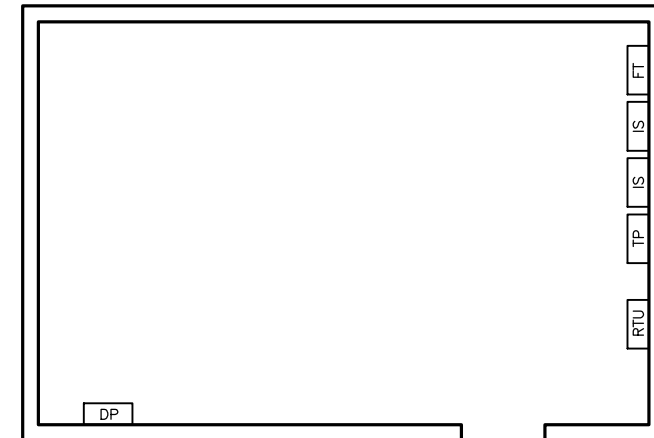
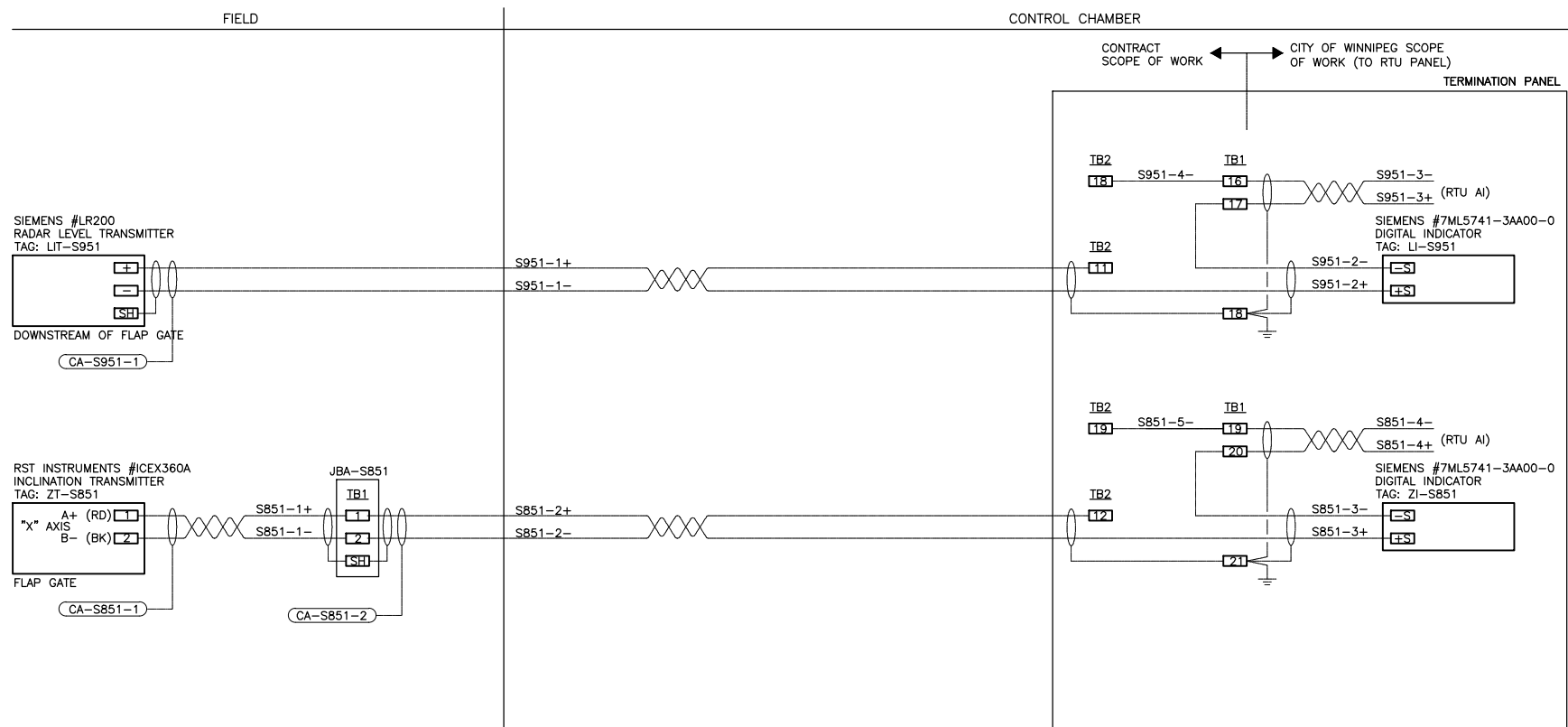
CONSULTANT DRAWING NO.  
**E-I403**

**THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT**

CSO OUTFALL MONITORING  
 JESSIE  
 ELECTRICAL ROOM LAYOUT  
 LOOP WIRING DIAGRAMS

SHEET	OF
1	2
CAD FILE DRAWING NUMBER 14720e-1403-jes.dwg	
CITY DRAWING NUMBER <b>I-0149-A-A0204-001-00</b>	

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 2015/09/10 10:37 AM By: Bekker, Kyle



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**THE CITY OF WINNIPEG**  
**WATER AND WASTE DEPARTMENT**

**CSO OUTFALL MONITORING**  
**JESSIE**  
**ELECTRICAL ROOM LAYOUT**  
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