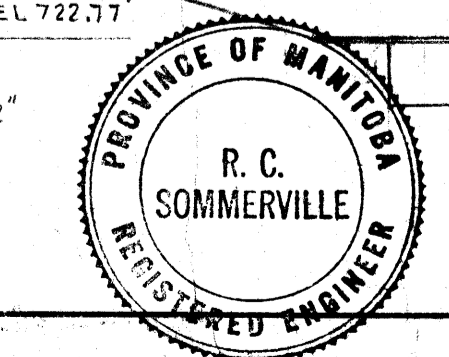
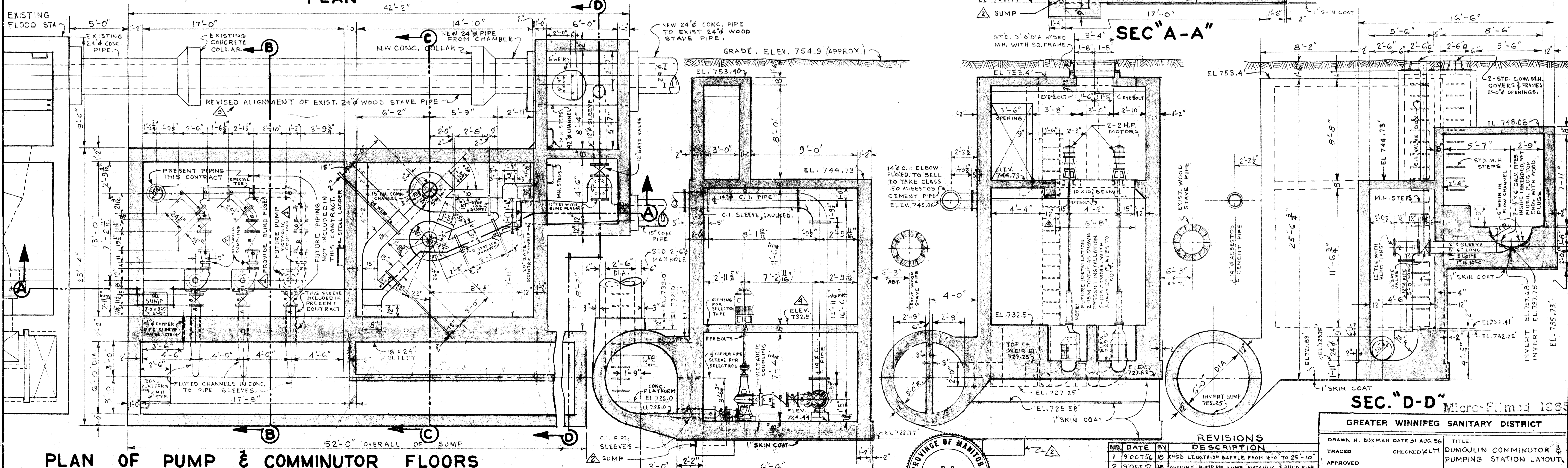
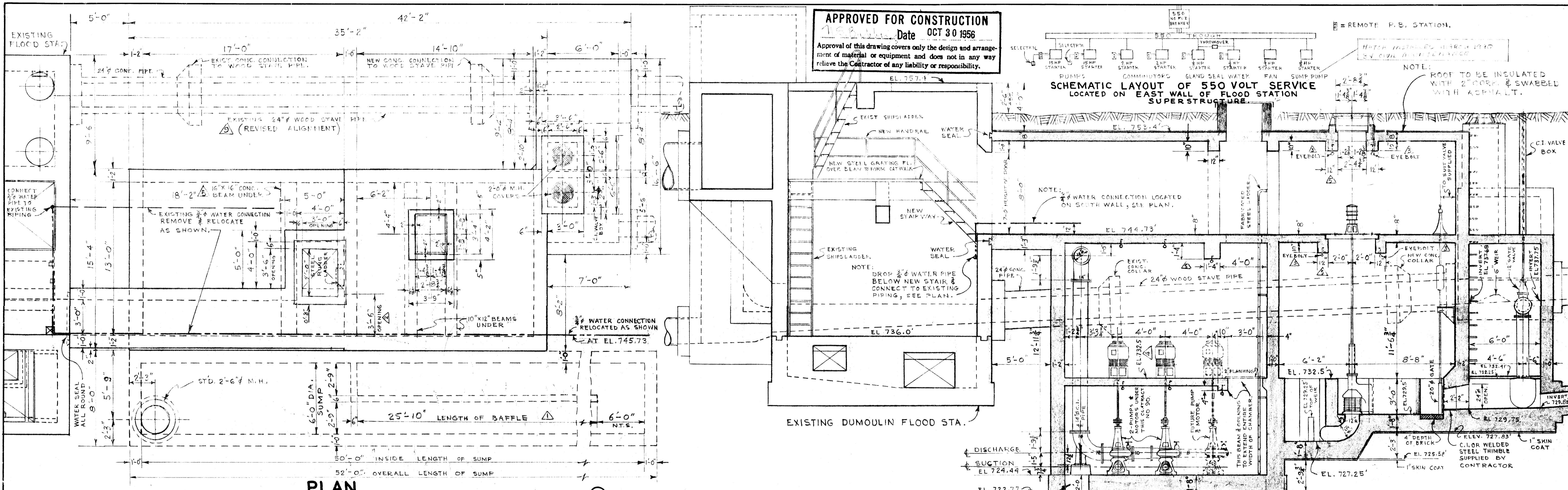


APPENDIX A – HISTORICAL DRAWINGS

file# CS1002

REF. or DRAWING No. 251

DETAILS



REVISIONS

NO.	DATE	BY	DESCRIPTION
1	9 OCT 56	HB	CHG'D LENGTH OF BAFFLE FROM 16'-0" TO 25'-10"
2	9 OCT 56	HB	OPENING, PUMP RM. SUMP, VERTICAL & BIND FLGE.
3	11 OCT 56	HB	EYEBOLTS ADDED
4	18 OCT 56	HB	MOTOR FLOOR IN PUMP CHAMBER LOWERED FROM EL. 736.06 TO EL. 732.5'
5	15 OCT 56	HB	BEAM UNDER ENTRANCE ADDED & EXIST'G BEAM DIMENSIONS CHG'D.
50 OCT 56	HB	REVISED TO SUIT REINF. DETAILS	
12 DEC 56	HB	PIPING DETAILS IN PUMP RM. CHG'D TO SUIT PUMPS	
13 DEC 56	HB	EYEBOLTS ADDED	

GREATER WINNIPEG SANITARY DISTRICT

DRAWN H. BUXMAN DATE 31 AUG 56
 TITLE: DUMOULIN COMMINUTOR & PUMPING STATION LAYOUT.

TRACED
 APPROVED
 Supt. GEN. MGR.

SCALE: 1" = 1'-0"
 DWG. NO. 251

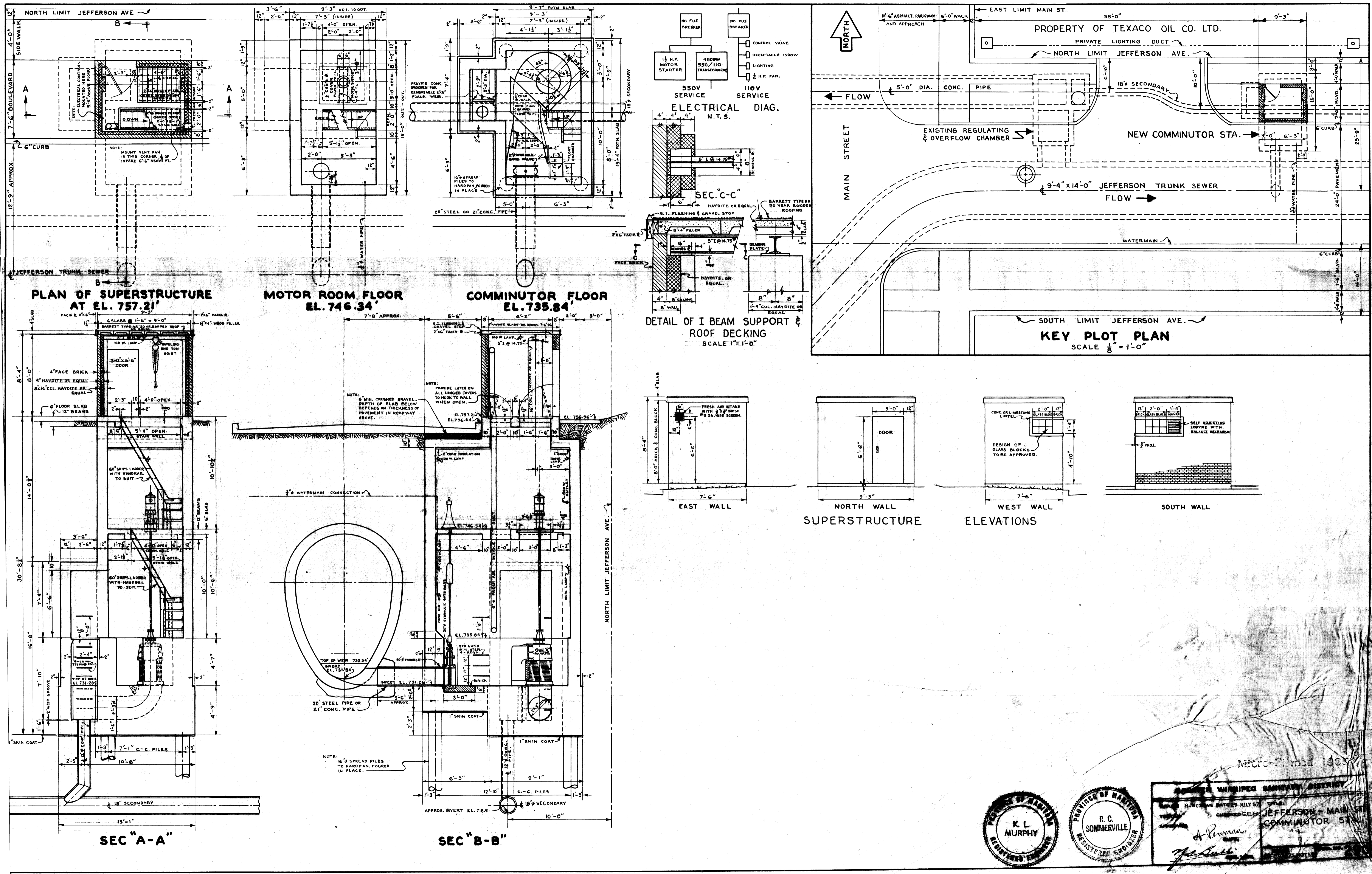
PLAN OF PUMP & COMMUNOTOR FLOORS

SEC. B-B

SEC. C-C

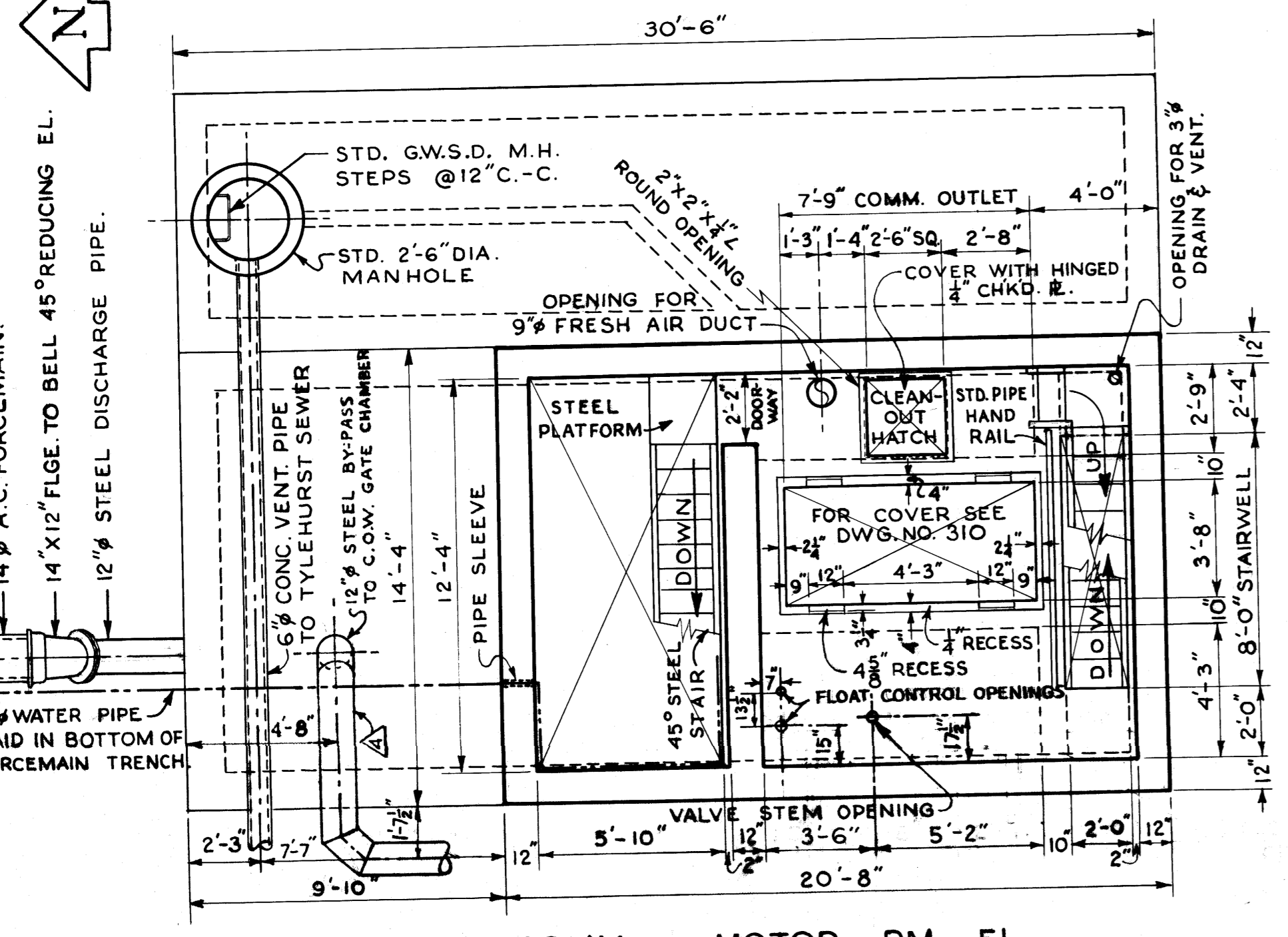
SEC. D-D

file# CS 10027
REF. or DRAWING NO. 290
DETAILS

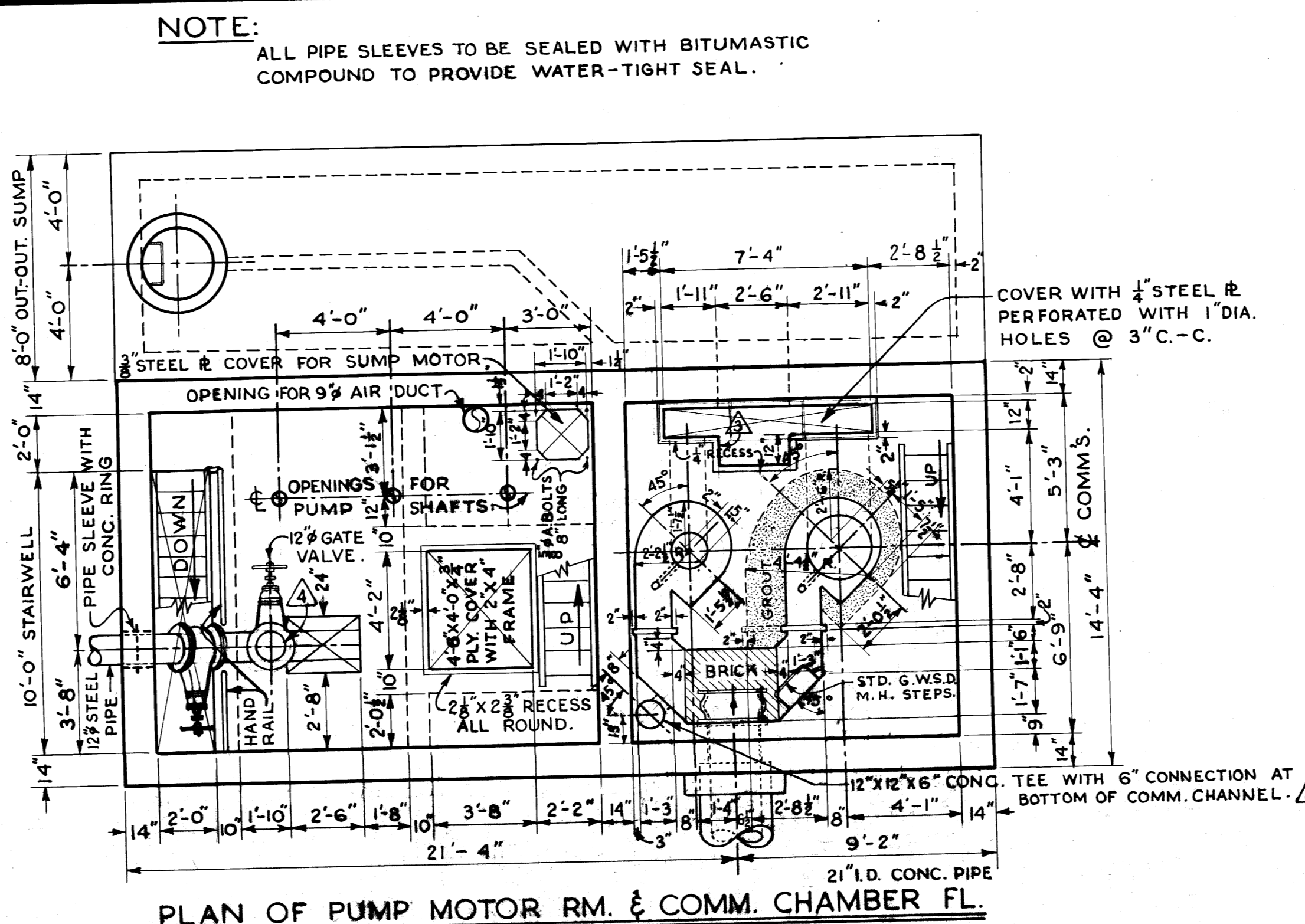


Micro-Filmed 1965
WHIRLED SANITARY DISTRICT
HODGSON BATHS 29 JULY 57
CHARGED TO JEFFERSON - MAIN ST
COMMUNUTOR STATION
A. Penman
J. G. Ball

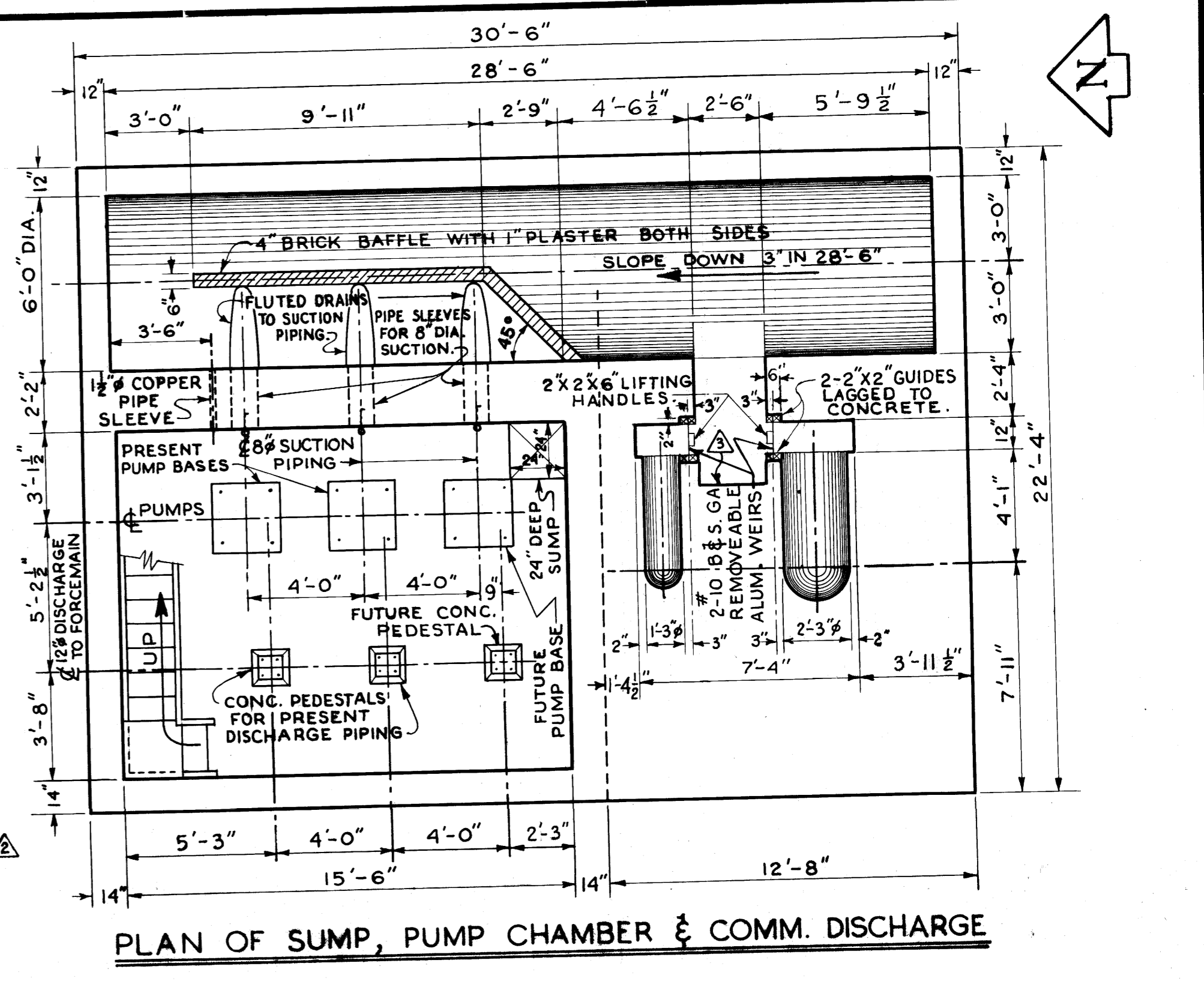
308
file 100164
58



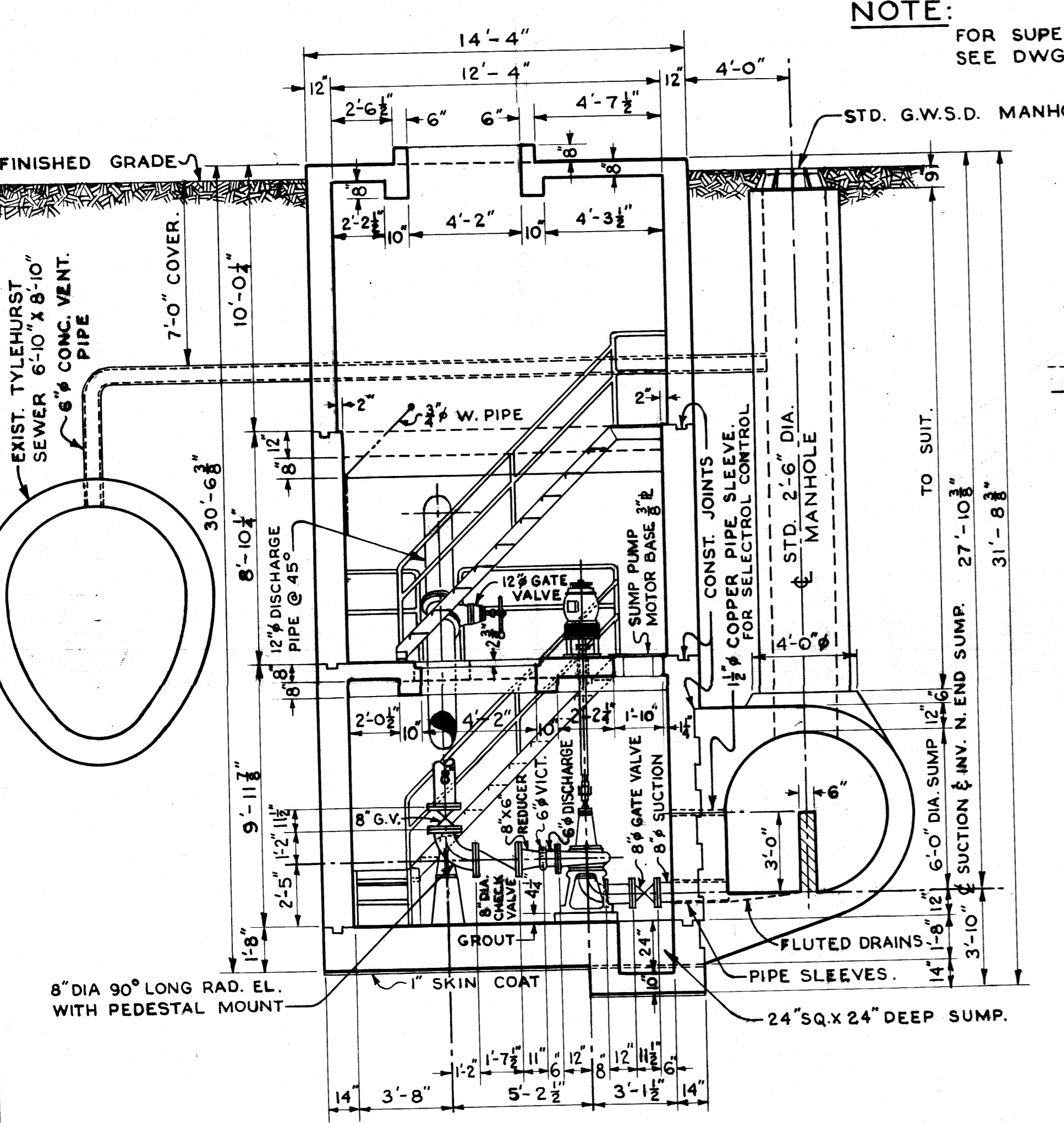
PLAN OF COMM. MOTOR RM. FL.



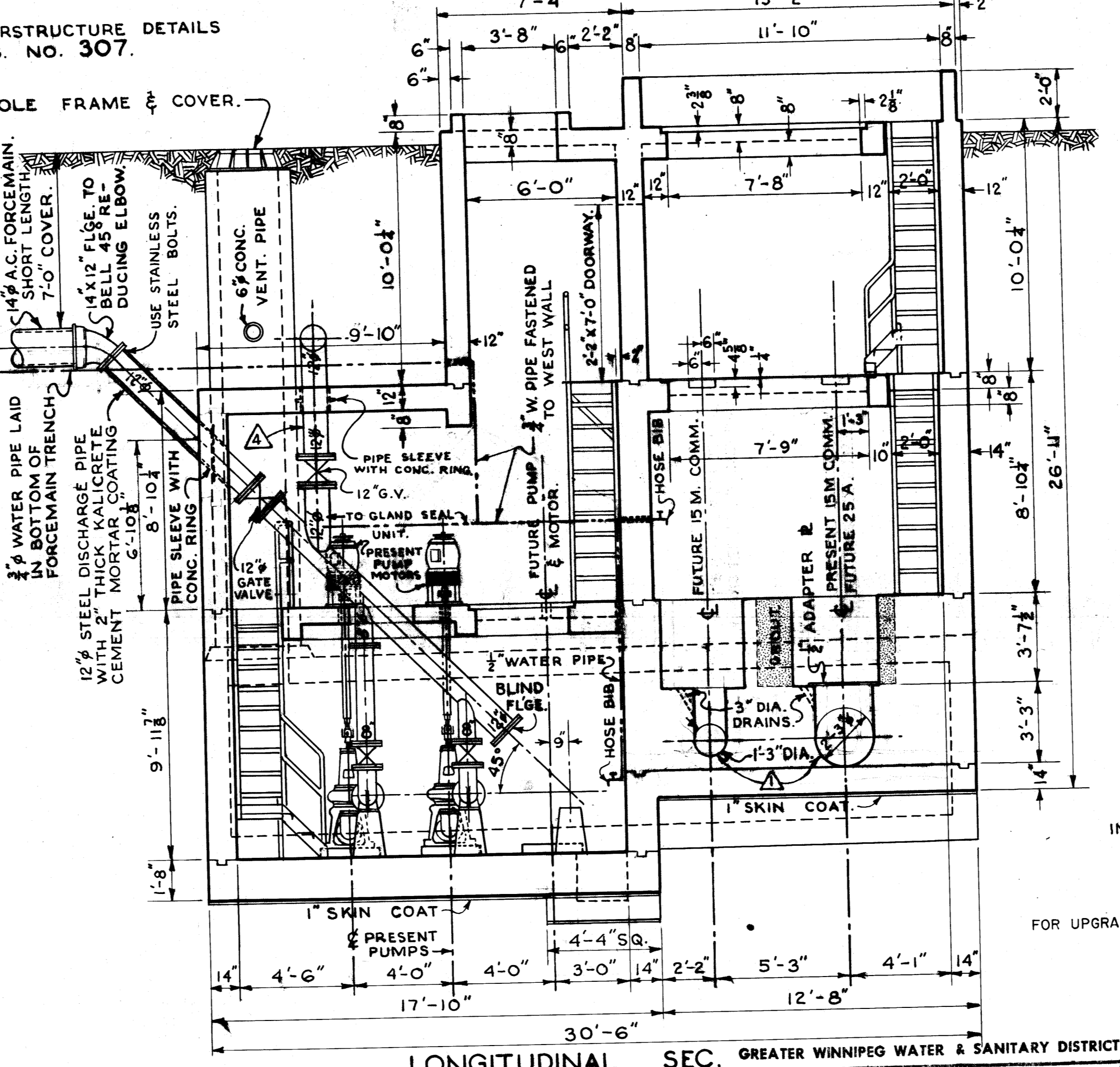
PLAN OF PUMP MOTOR RM. & COMM. CHAMBER FL.



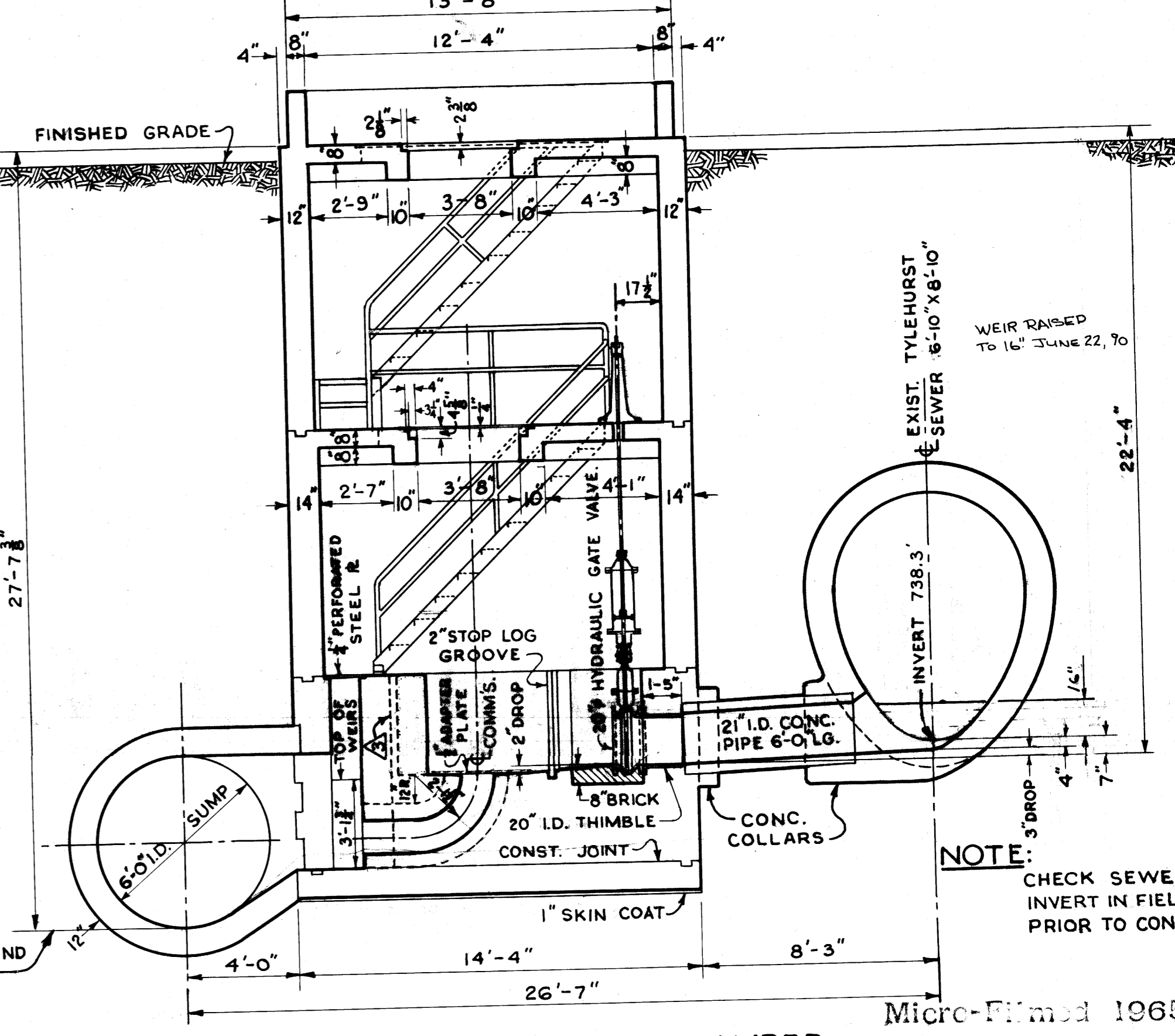
PLAN OF SUMP, PUMP CHAMBER & COMM. DISCHARGE



X-SEC. THRU PUMP CHAMBER LOOKING NORTH



LONGITUDINAL SEC. LOOKING EAST



X-SEC. THRU COMM. CHAMBER LOOKING SOUTH

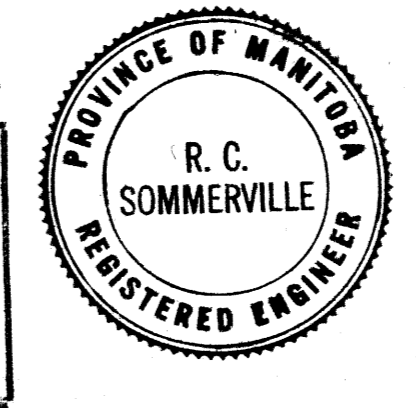
FOR INFORMATION ONLY
* - TO SUIT PUMPS SUPPLIED.

NOTE: FOR SUPERSTRUCTURE DETAILS SEE DWG. NO. 307.

NOTE: ALL STAIRS 45° PREFABRICATED STEEL. CONSTRUCTION TO SUIT FIELD DIMENSIONS. STD. PIPE HANDRAIL PROVIDED AS SHOWN.

NOTE: ALL PIPE SLEEVES TO BE SEALED WITH BITUMASTIC COMPOUND TO PROVIDE WATER-TIGHT SEAL.

APPROVED FOR CONSTRUCTION
Date JAN 14 1960
GREATHER WINNIPEG WATER & SANITARY DISTRICT



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	COMM. SETTING REVERSED	4 FEB 59	H.B.
2	FLOAT CONTROL RELOCATED	5 FEB 59	H.B.
3	DOWN STREAM WEIR CHANNEL ENLARGED	19 FEB 59	H.B.
4	12" STEEL BYPASS PIPE TO C.W. GATE CHAMBER ADDED	24 FEB 59	H.B.
5	PUMP DIMENSIONS ADDED	25 FEB 59	H.B.
6	WEIR RAISED	24 JUL 60	H.B.

GREATHER WINNIPEG SANITARY DISTRICT SECONDARY SEWERS

TYLEHURST COMM. & PUMP STA.
GENERAL LAYOUT OF SUBSTRUCTURE

DESIGNED BY G.E. BURNS
DRAWN BY H. BUXMAN
CHECKED BY GEB
DATE 23 NOV 58
SCALE 1" = 1'-0"

DRAWING No. 308

FOR UPGRADING SEE DWGS. 1203 & 1214

NOTE: CHECK SEWER INVERT IN FIELD PRIOR TO CONST.

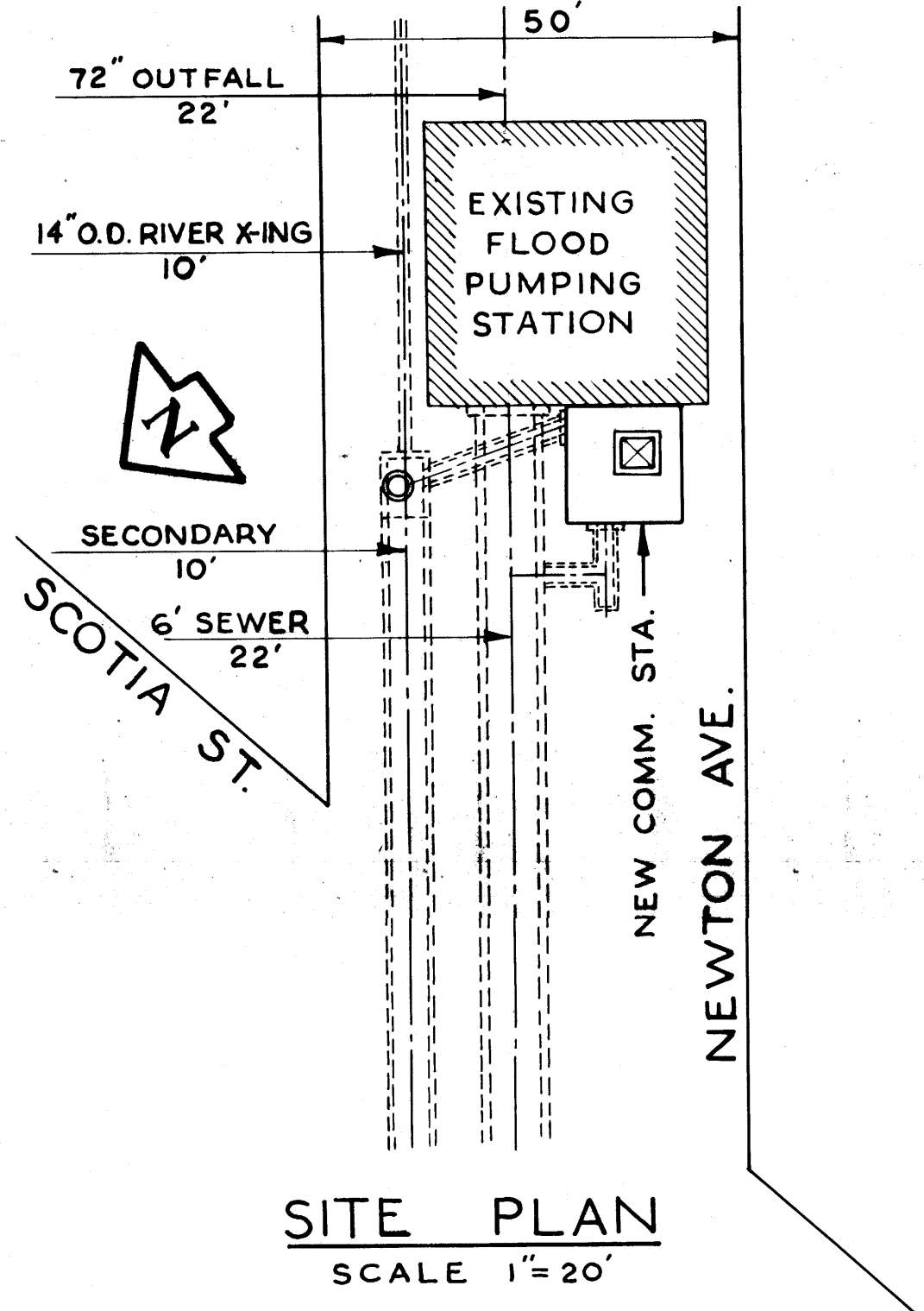
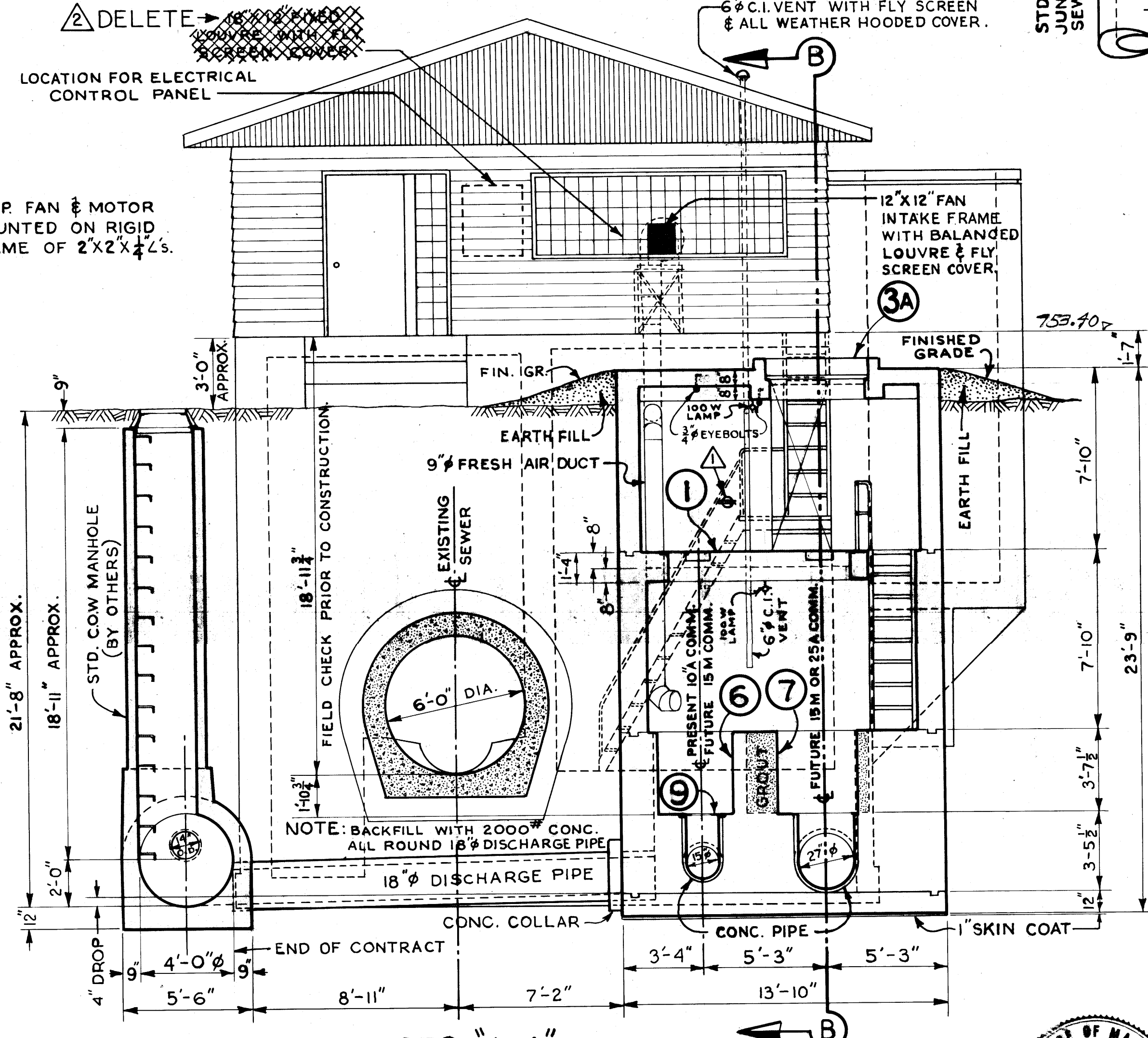
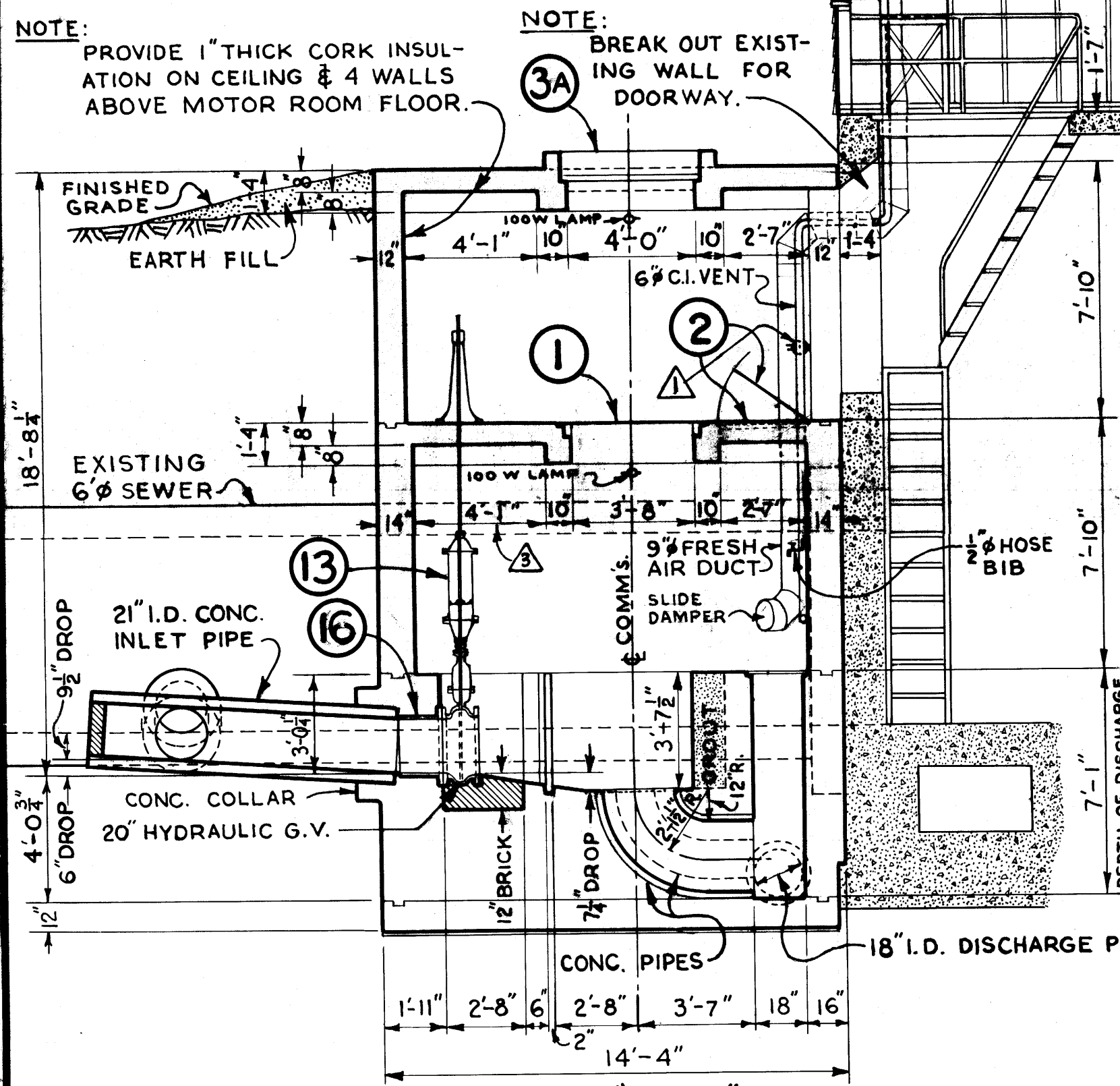
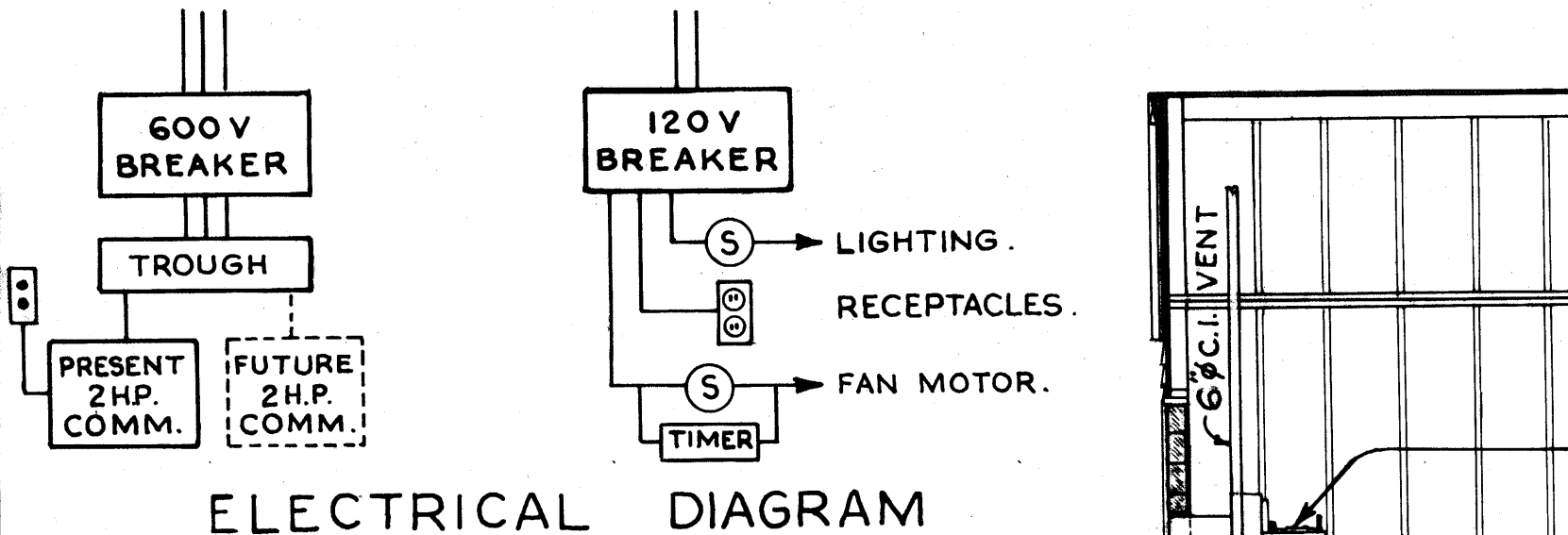
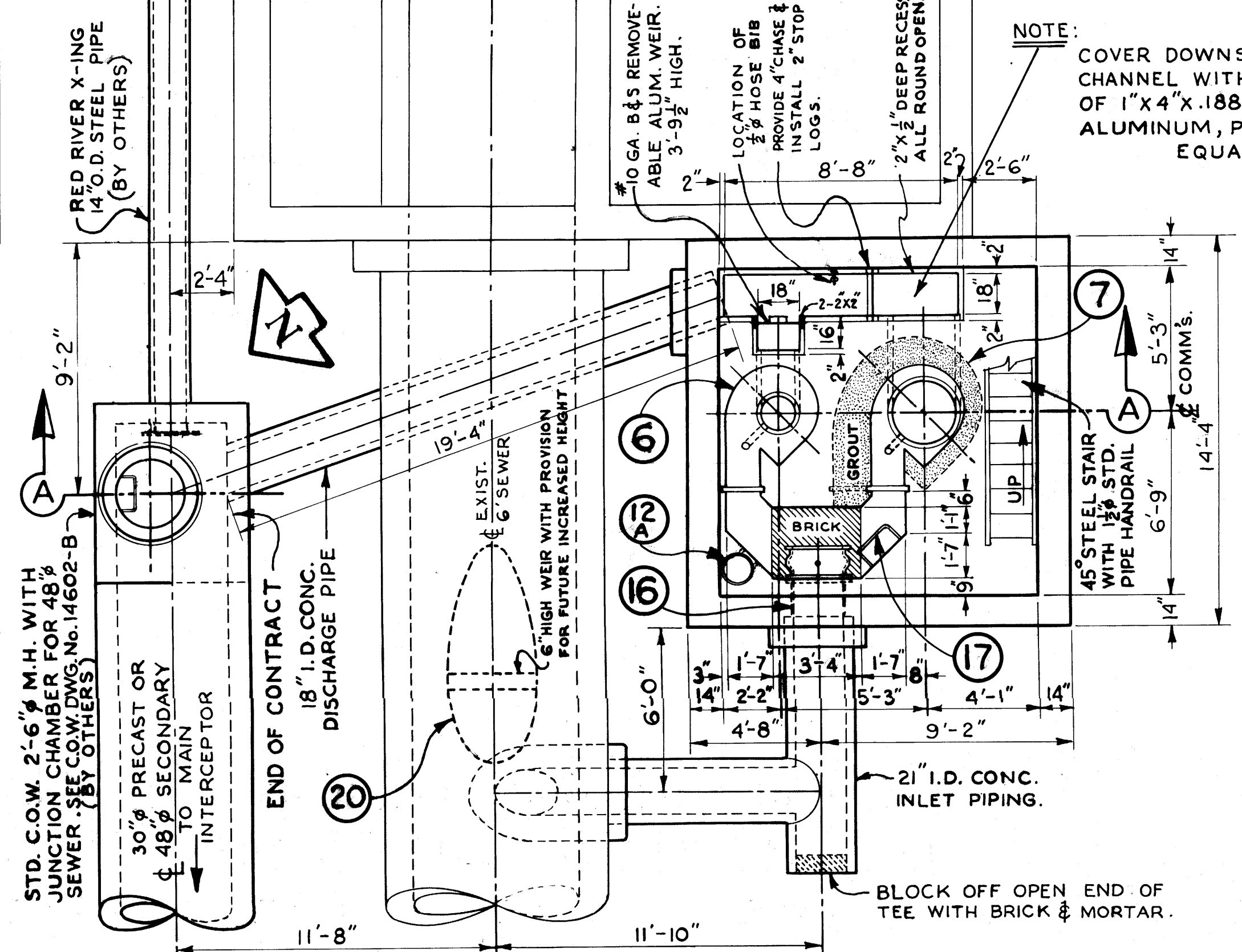
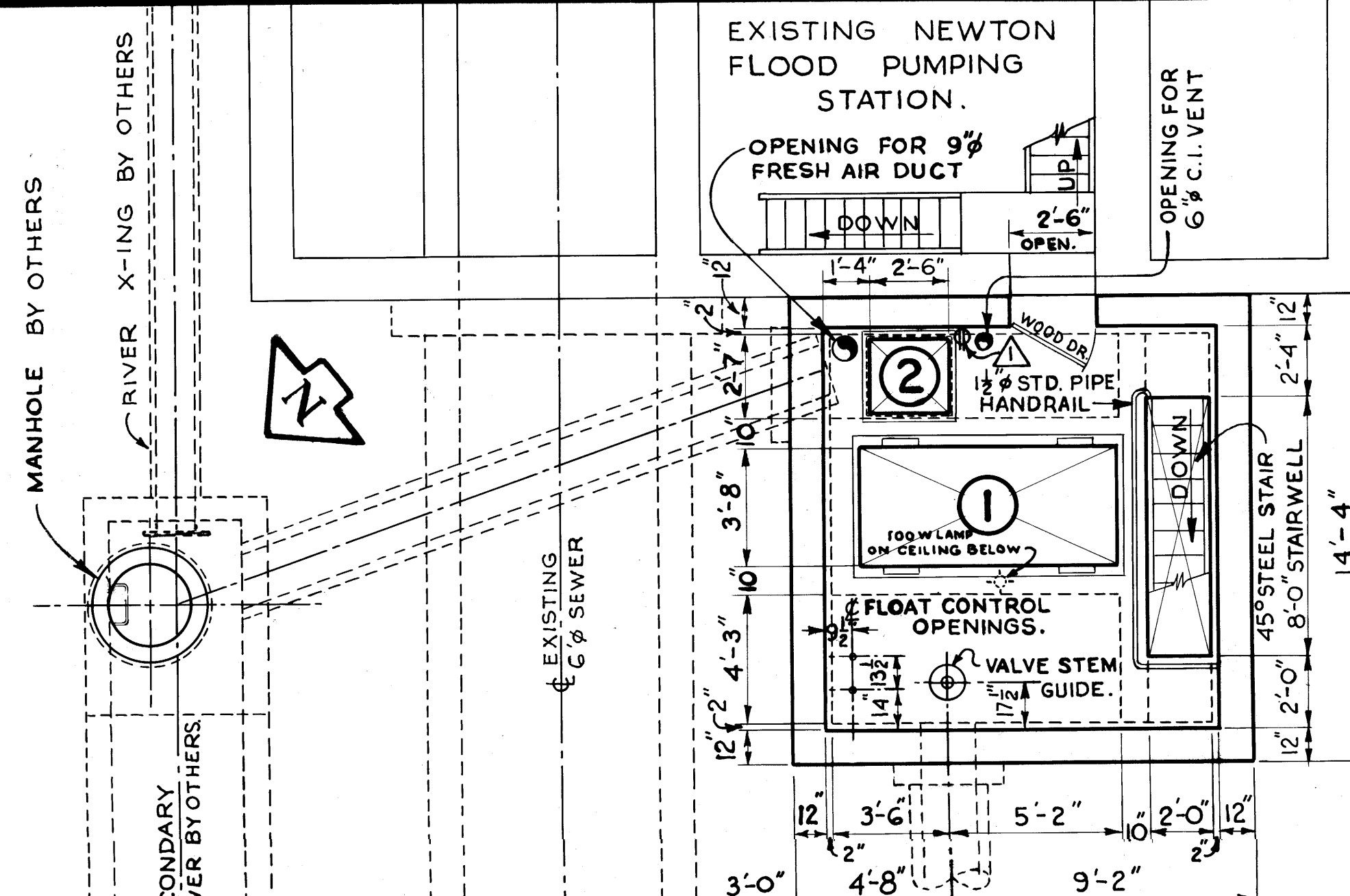
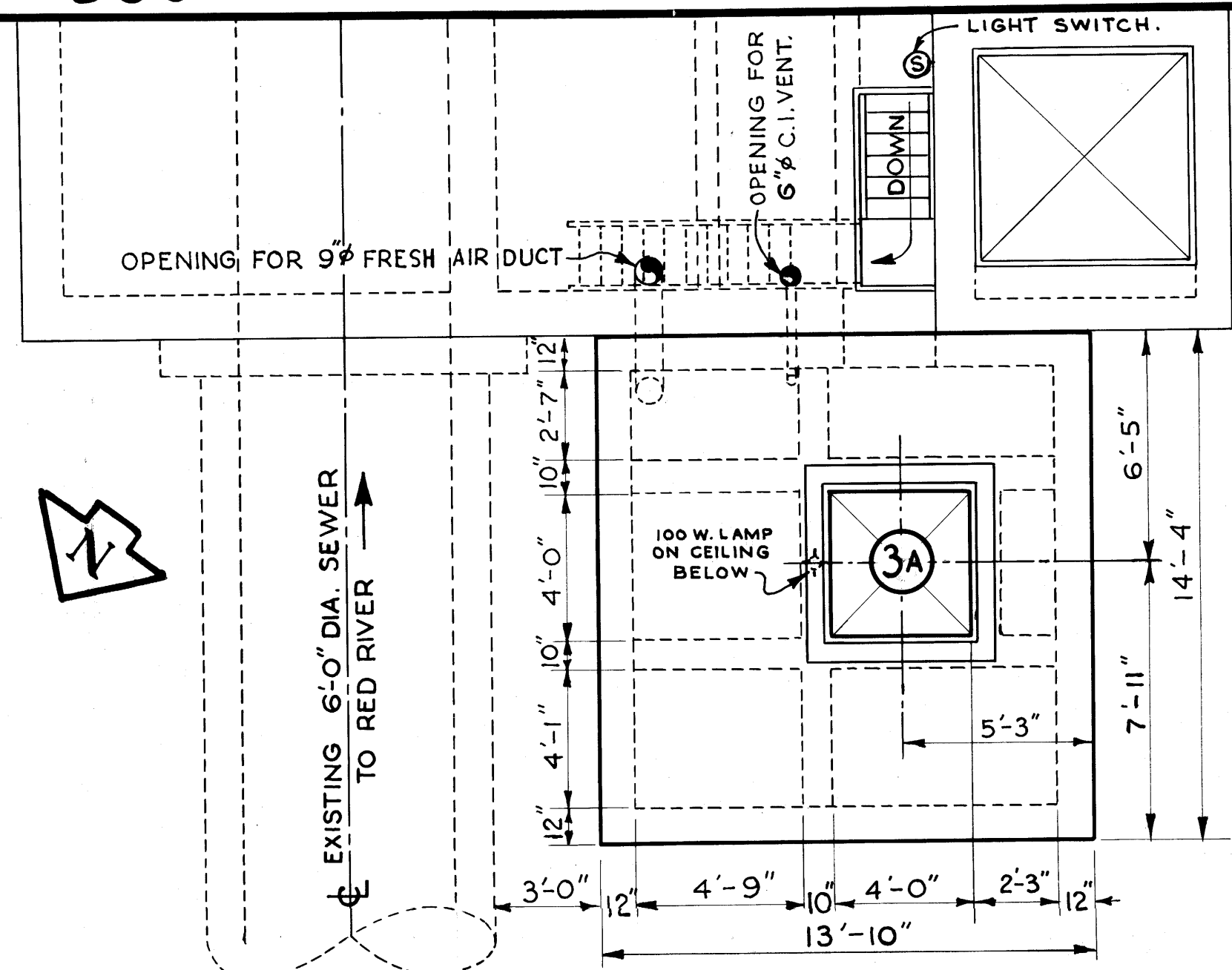
Micro-Filmed 1965

file # 10030
CS

326

REF. or DRAWING NO.

DETAILS



Micro-Filmed 1965

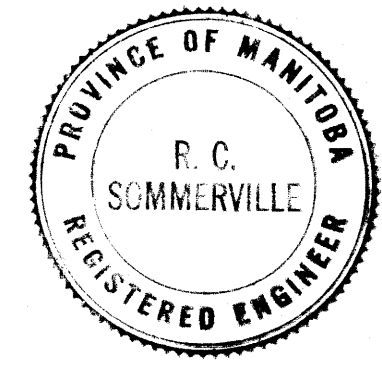
SEC. "C"

GREATER WINNIPEG SANITARY DIST.
SECONDARY SEWERS

NEWTON COMMUNICATOR STA.
GENERAL LAYOUT.

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	LOCATION OF 1500W RECEPTACLE ADDED	4 NOV 59	HB
2	18" X 12" FIXED LOUVRE DELETED.	4 NOV 59	HB
3	DIMENSION CHGD. FROM 4'-3" TO 4'-1"	9 NOV 59	HB

APPROVED BY: *A. P. Newman*
Supt. *H. Buxman*
DESIGNED BY: G. E. BURNS
DRAWN BY: H. BUXMAN
CHECKED BY: R. C. SOMMERVILLE
DATE: 19 OCT. 1959
SCALES: 1/4"=1'-0" & AS NOTED
DRAWING NO. 326



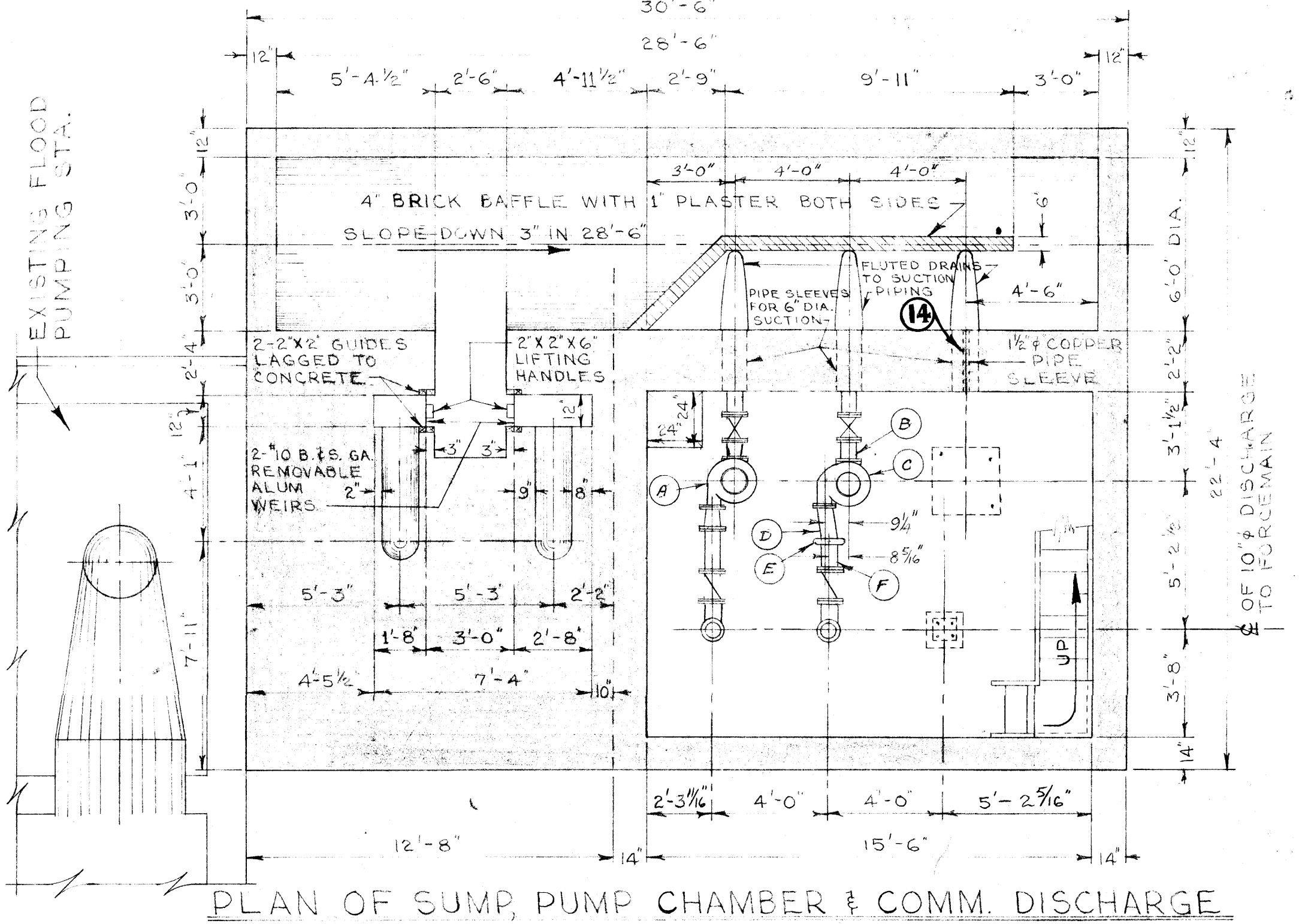
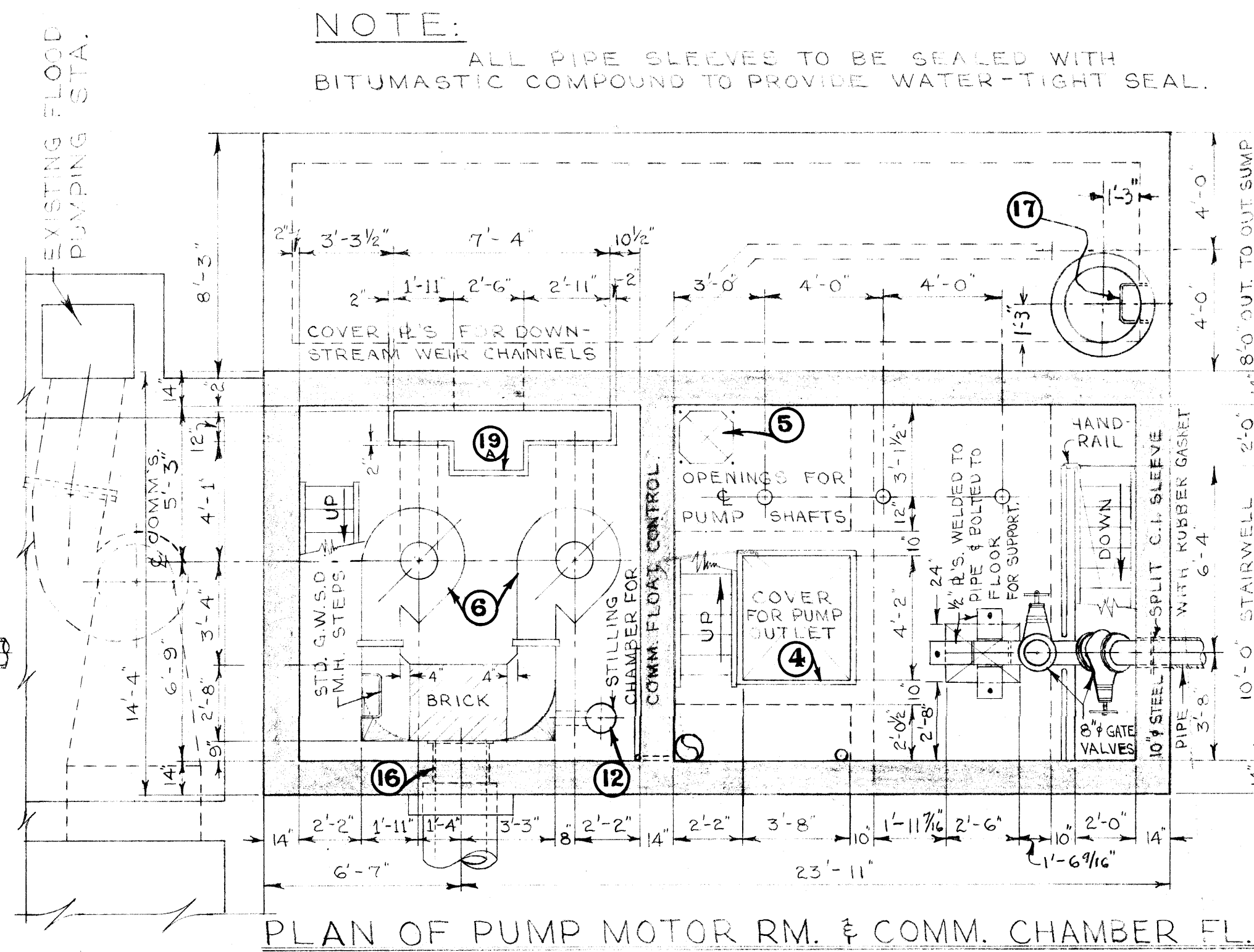
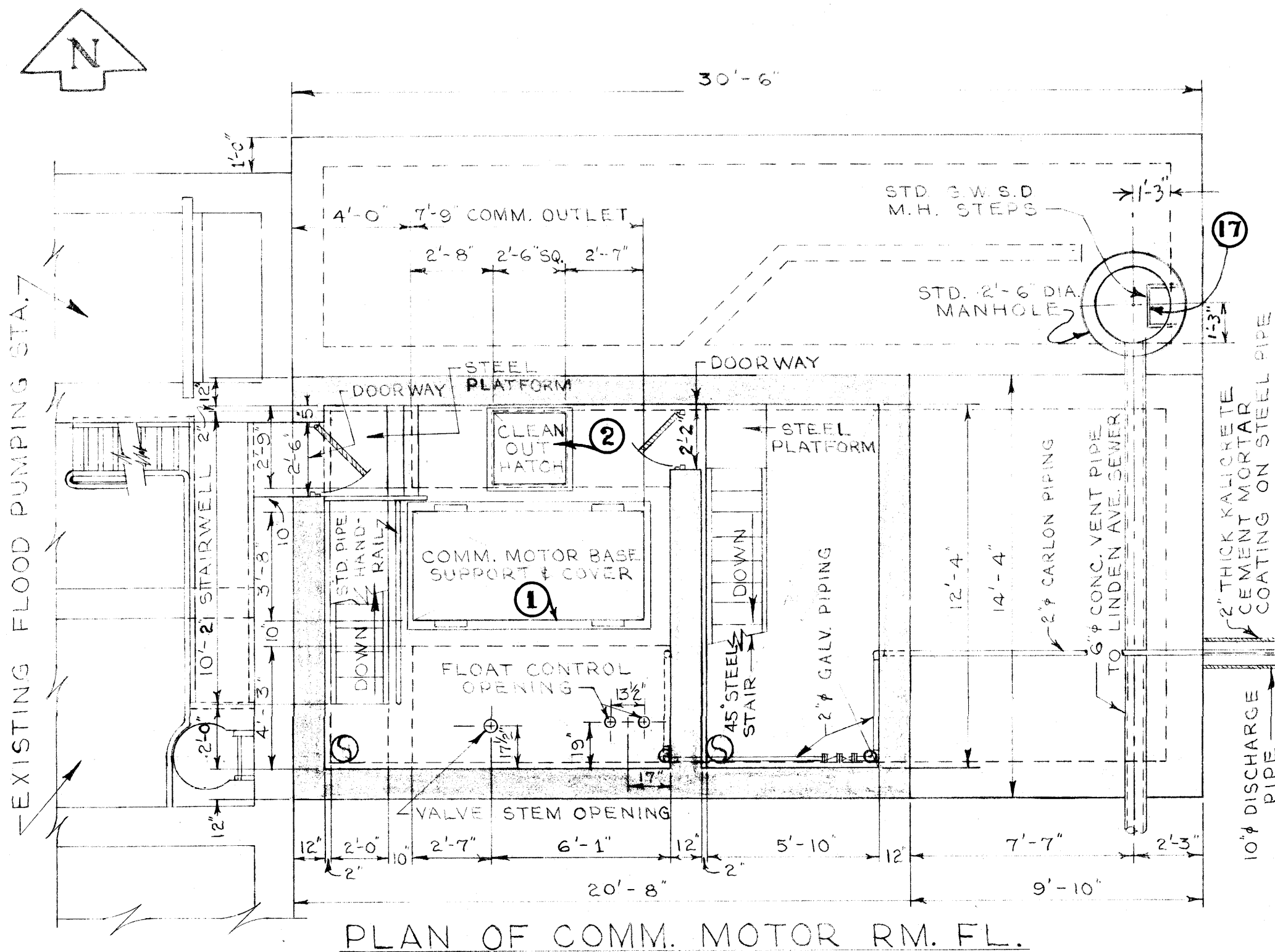


File # 10078
SP 10078

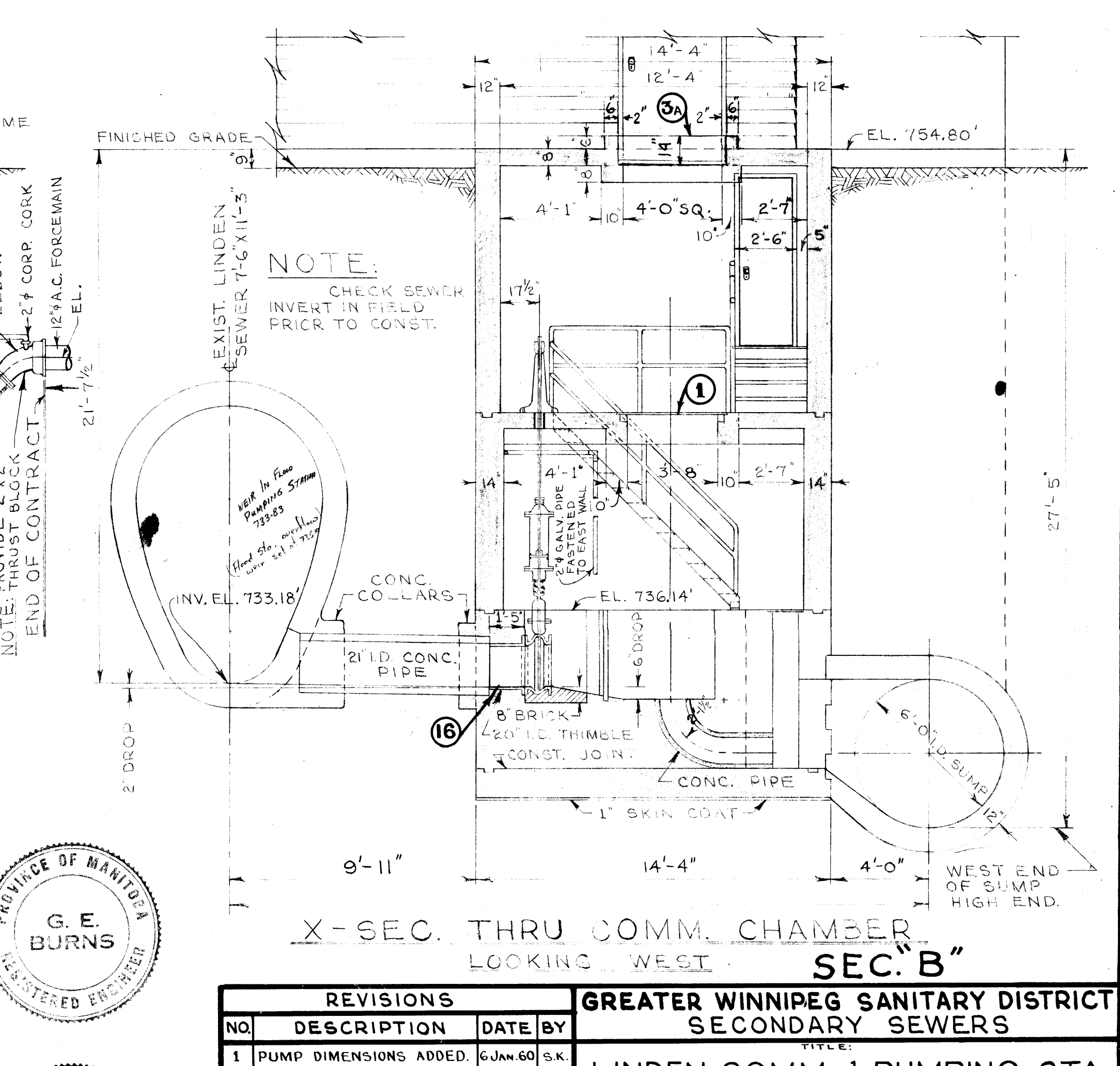
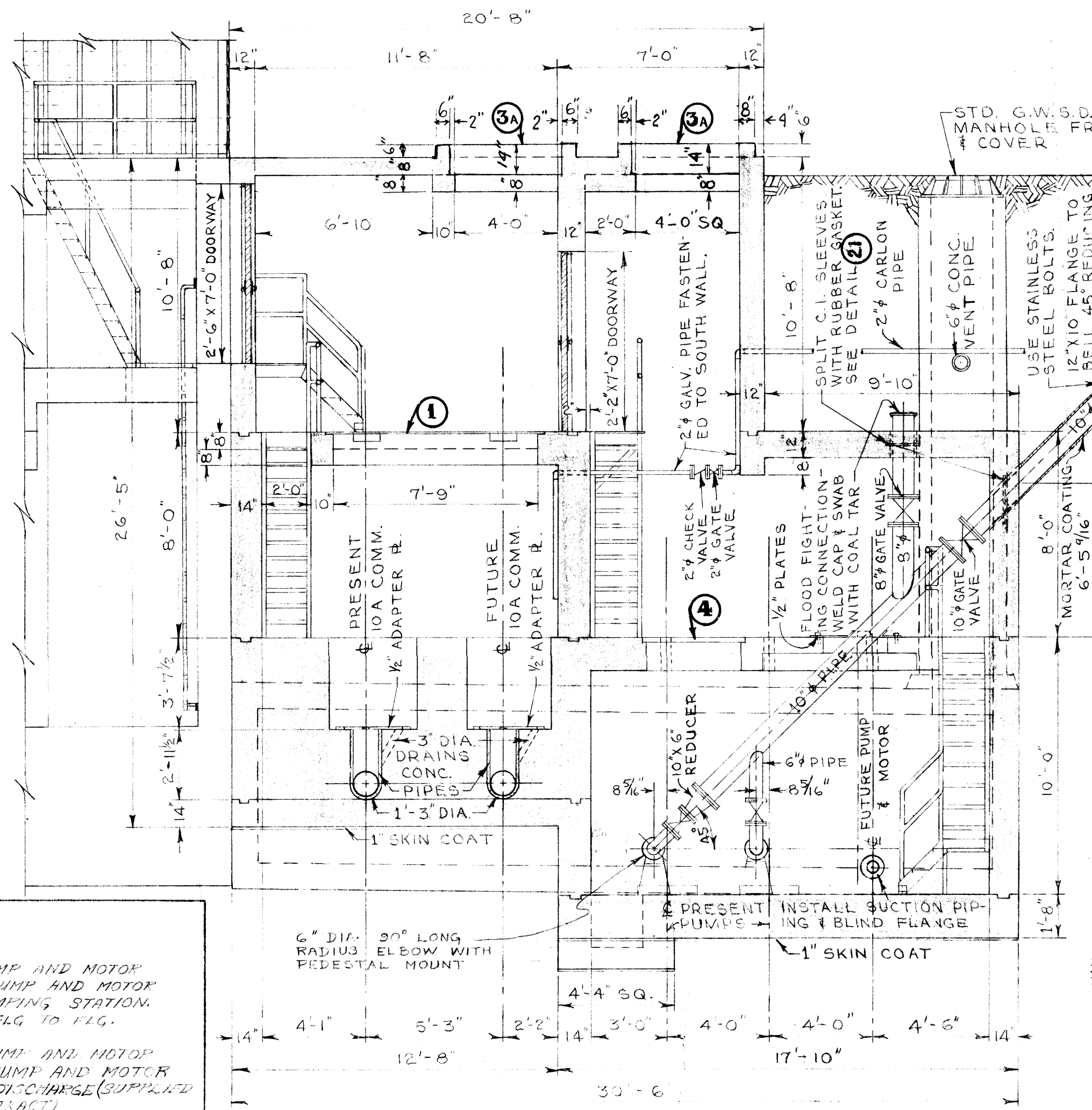
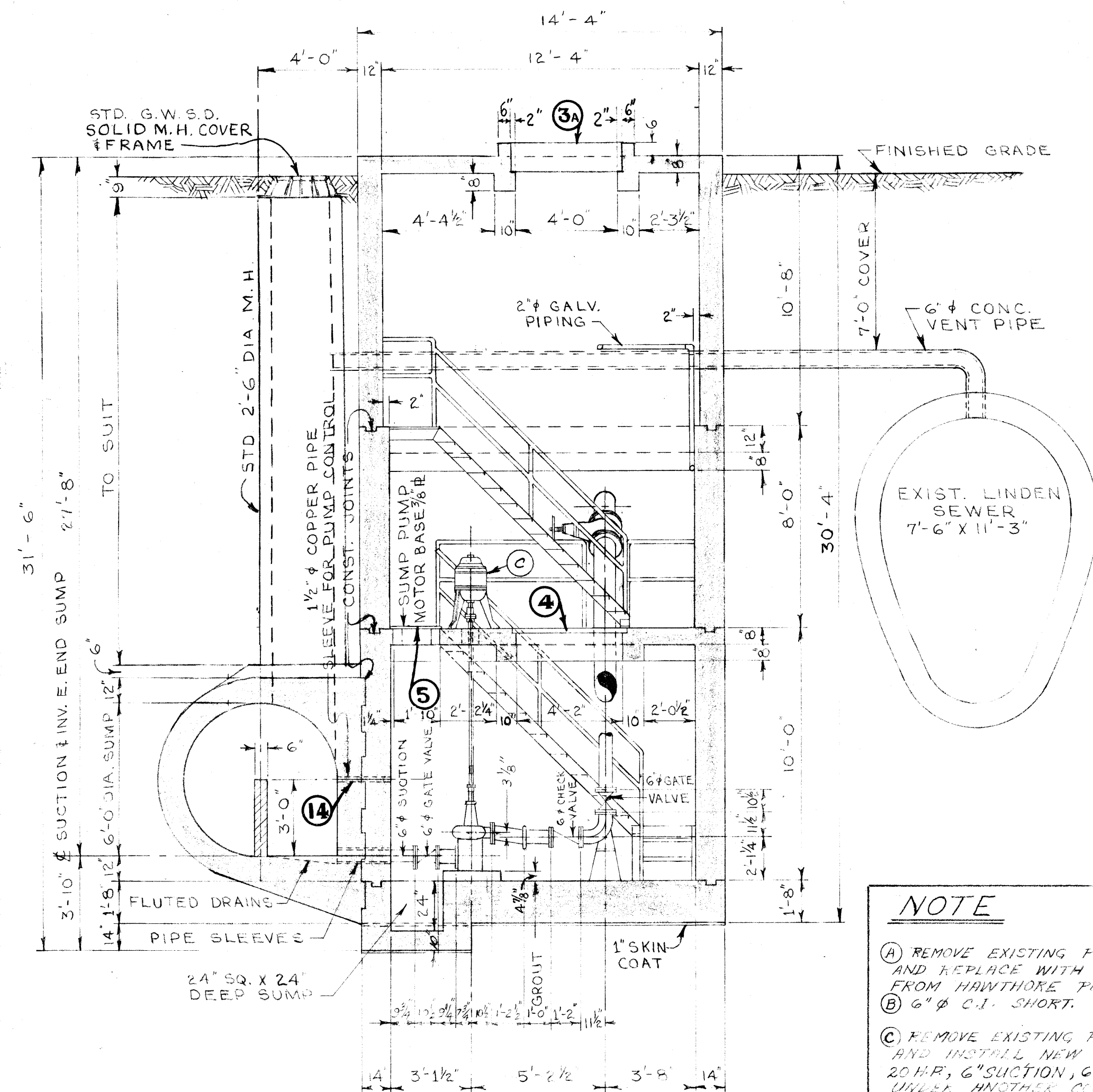
334

REF. or DRAWING No.

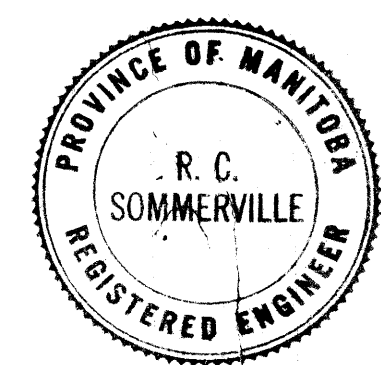
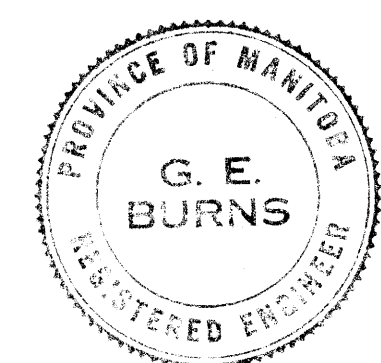
DETAILS



NOTE:
ALL PIPE SLEEVES TO BE SEALED WITH BITUMASTIC COMPOUND TO PROVIDE WATER-TIGHT SEAL.



- NOTE
- (A) REMOVE EXISTING PUMP AND MOTOR AND REPLACE WITH PUMP AND MOTOR FROM HAWTHORNE PUMPING STATION.
 - (B) 6" C.I. SHORT. FLG TO FLG.
 - (C) REMOVE EXISTING PUMP AND MOTOR AND INSTALL NEW PUMP AND MOTOR 20 HP, 6" SUCTION, 6" DISCHARGE (SUPPLIED UNDER ANOTHER CONTRACT).
 - (D) 6" C.I. SHORT. FLG TO WEL.
 - (E) 6" VICTROLUX COUPLING STYLE #44.
 - (F) 6" C.I. SHORT. WCT. TO FLG.



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	PUMP DIMENSIONS ADDED.	6 JUN 60	S.K.
2	PUMPS AND PIPING REPLACED	JUN 71	VD.

GREATER WINNIPEG SANITARY DISTRICT
SECONDARY SEWERS

LINDEN COMM. & PUMPING STA.
GENERAL LAYOUT OF
SUBSTRUCTURE

APPROVED BY: *[Signature]*
S.U.P.T. & CHIEF ENGINEER

DESIGNED BY: G.E. BURNS
DATE: 30 OCT. 59

CHECKED BY: G.E.B.
DATE: 30 OCT. 59

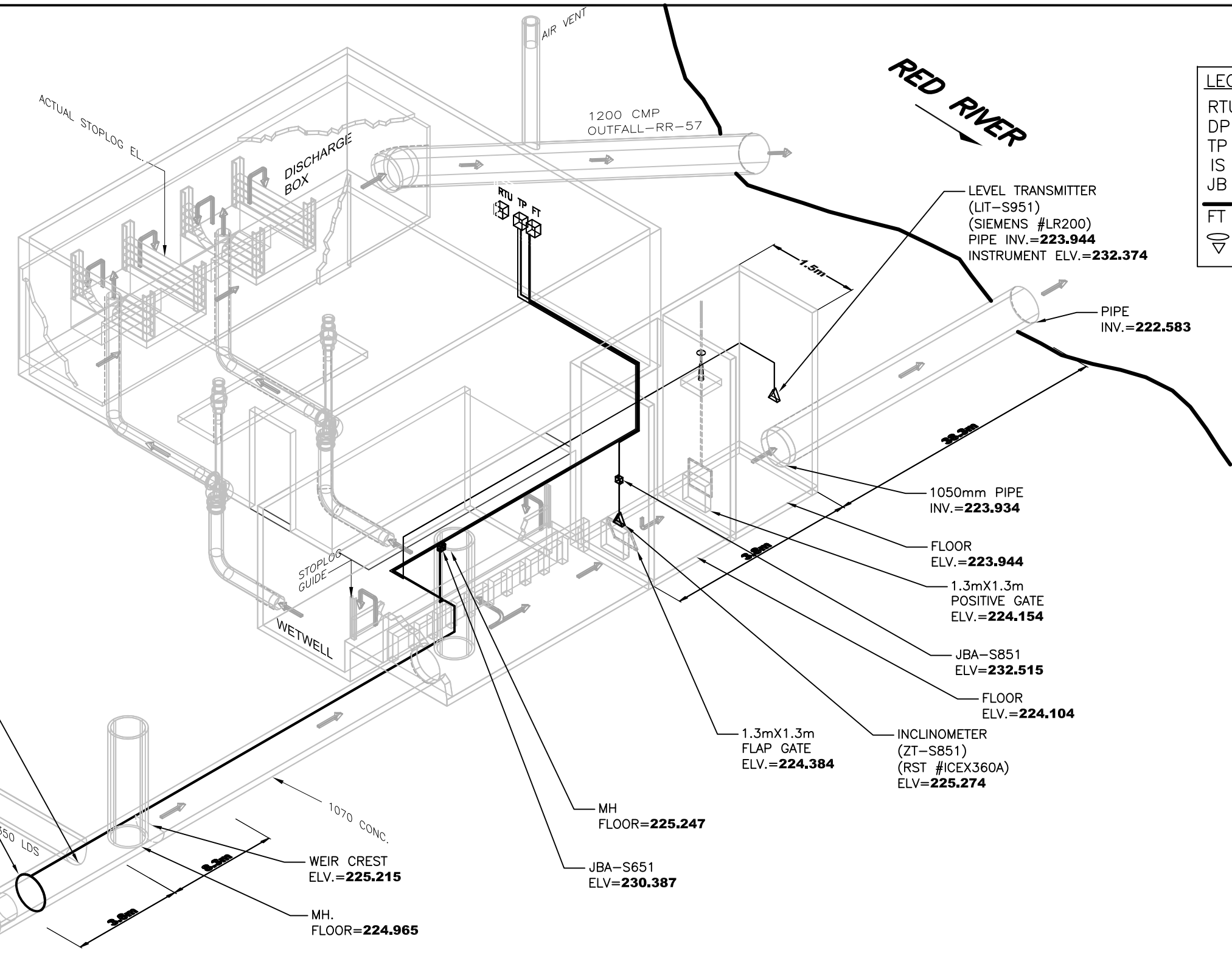
DRAWING NO. 334

SCALES: 1/4" INCH = 1' FT.

Micro-filmed 1968

NOTE:
① - NUMBERS REFER TO DETAIL DWGS.

O:\NConti\Design&Construction\CSO Iso\14720e-1201-dum.dwg
2016/09/21 2:11 PM By: Conti, Newton



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 #20E FLOW METER
RST INSTRUMENTS #ICEX360A INCLINOMETER
SIEMENS #LR200 RADAR LEVEL TRANSMITTER
FLOOD LEVEL = 229.72
BOLD ELEVATIONS FROM STANTEC

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

Benchmark Elevation = 230.38
Center punch on N Rim of the most Northerly MH of the two MH's E of STN, 12.5m East of E STN Wall and 2.6m S of N STN wall projected.

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

APECM
 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.			
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.
NO.	REVISIONS	DATE	BY

B.M. ELEV.			

Stantec
 500-311 Portage Avenue, 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	2013.12.04	DATE	

ENGINEER'S SEAL
 CONSULTANT DRAWING NO.
E-1201

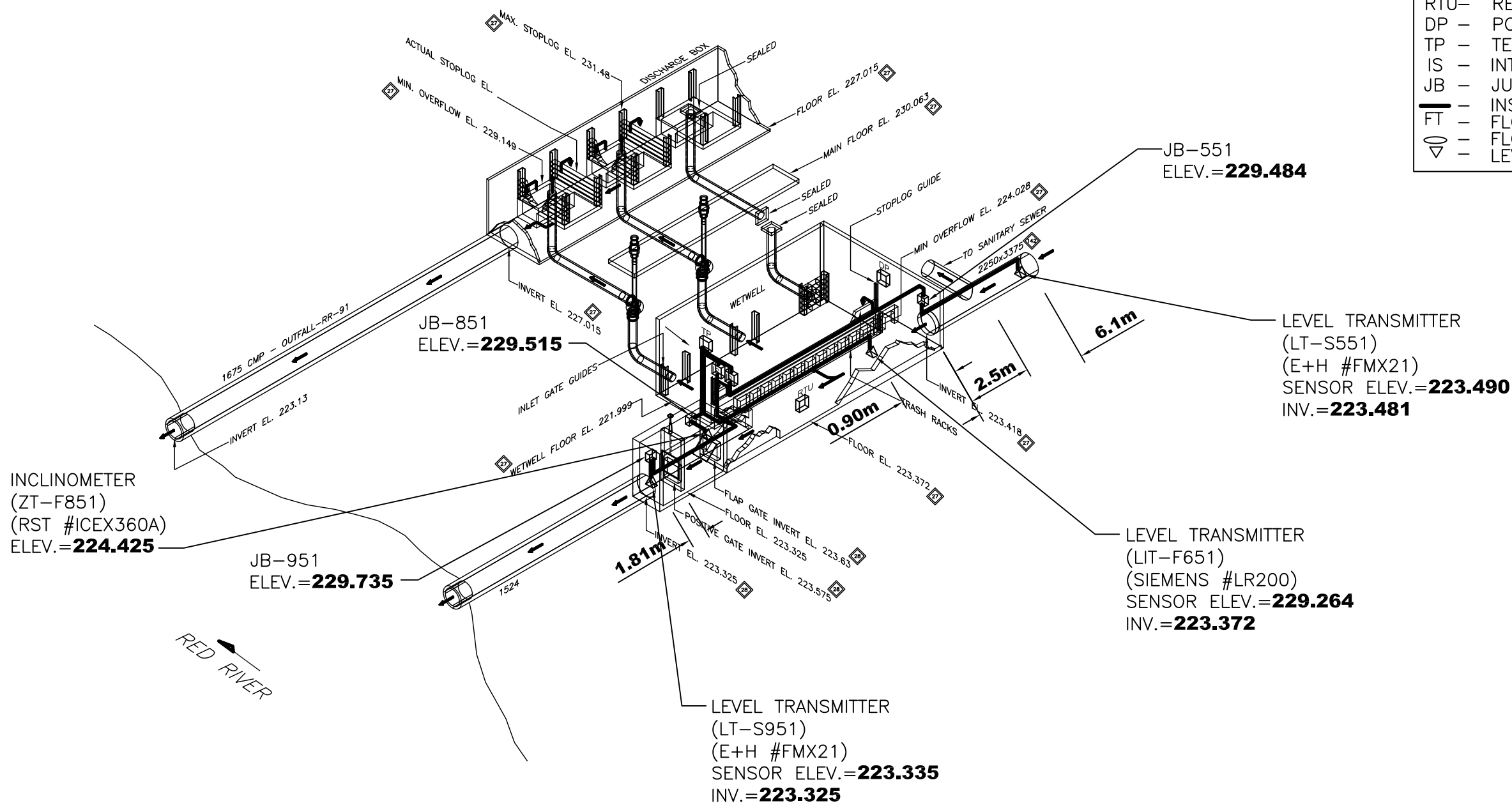
THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

CSO OUTFALL MONITORING
DUMOULIN
3D ISOMETRIC PLAN

SHEET	OF
1	2
CAD FILE DRAWING NUMBER 14720e-1201-dum.dwg	
CITY DRAWING NUMBER 1-0130-A-A0202-001-00	

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



BOLD ELEVATIONS FROM STANTEC
Benchmark Elevation = 230.063
Centre-Punch w/Cross Hairs on Concrete Pad of Access Chambers - 5.86m East of East Wall of P/S Building & 4.10m South of Projected North Line of Main P/S Building

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

APECM
 Certificate of Authorization
 Stantec Consulting Ltd.
 No. 1301

O:\NConti\Design&Construction\CSO Iso\13650e-2701-lin.dwg 2016/09/21 2:13 PM By: Conti, Newton

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	14.11.04	S.T.
B	AS-BUILT DRAWING	14.01.10	S.T.
A	ISSUED FOR CLIENT REVIEW	13.06.05	J.C.

B.M. ELEV.			

Stantec
 500-311 Portage Avenue, 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

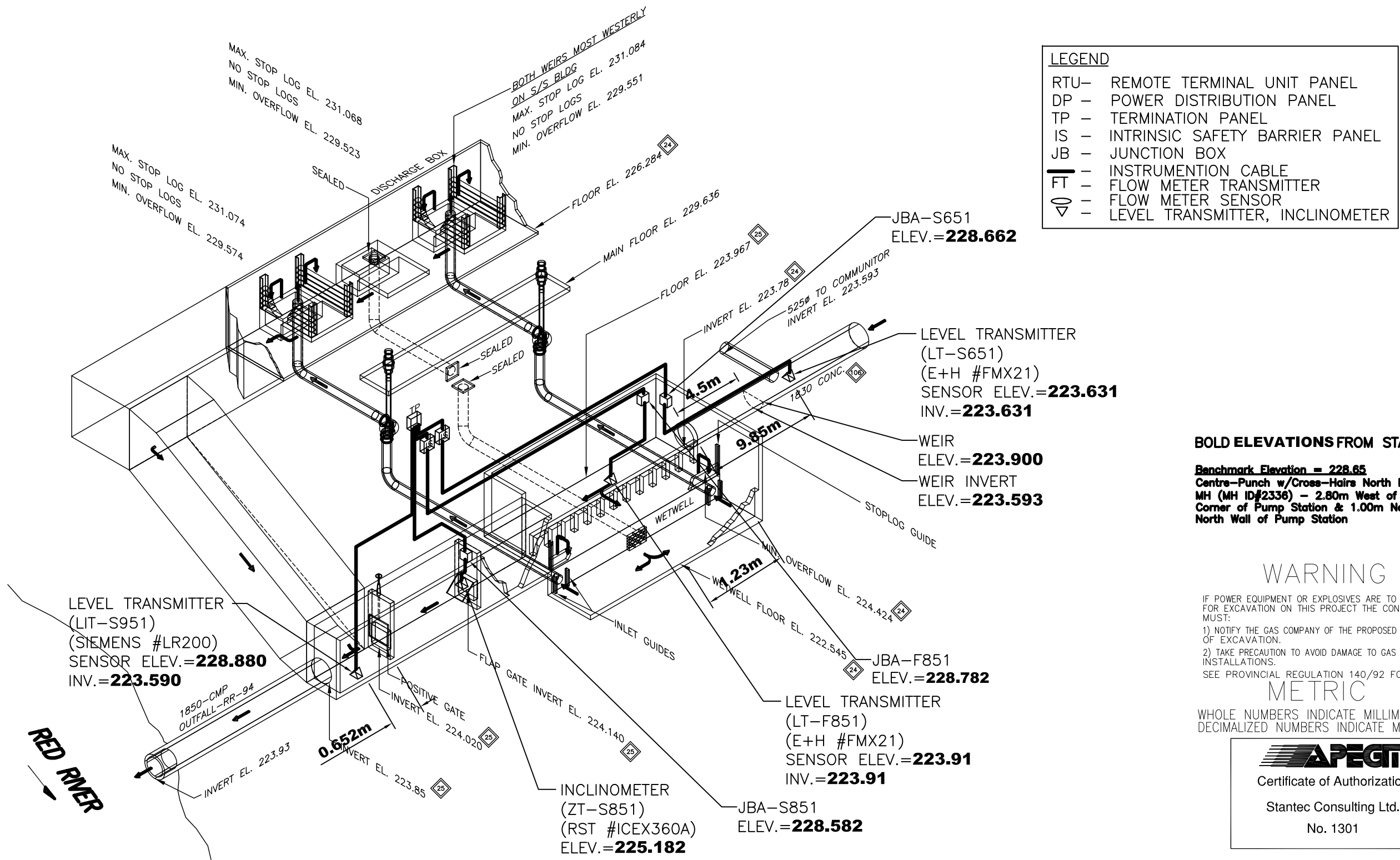
CONSULTANT DRAWING NO.
E-2701

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

CSO OUTFALL MONITORING
 LINDEN AVENUE
 3D ISOMETRIC

SHEET	OF
1	2
CAD FILE DRAWING NUMBER 13650e-2701-lin.dwg	
CITY DRAWING NUMBER 1-0155-A-A0202-001-00	

O:\NConti\Design&Construction\CSO Iso\14720e-3501-new.dwg
 2016/09/21 2:14 PM By: Conti, Newton



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
C	AS BUILT DRAWING	15.04.08	J.C.
B	ISSUED FOR CLIENT REVIEW	14.12.09	J.C.
A	ISSUED FOR CLIENT REVIEW	13.11.15	J.C.



500-311 Portage Avenue, 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	2013.11.01	DATE	

ENGINEER'S SEAL

CONSULTANT DRAWING NO.
E-3501

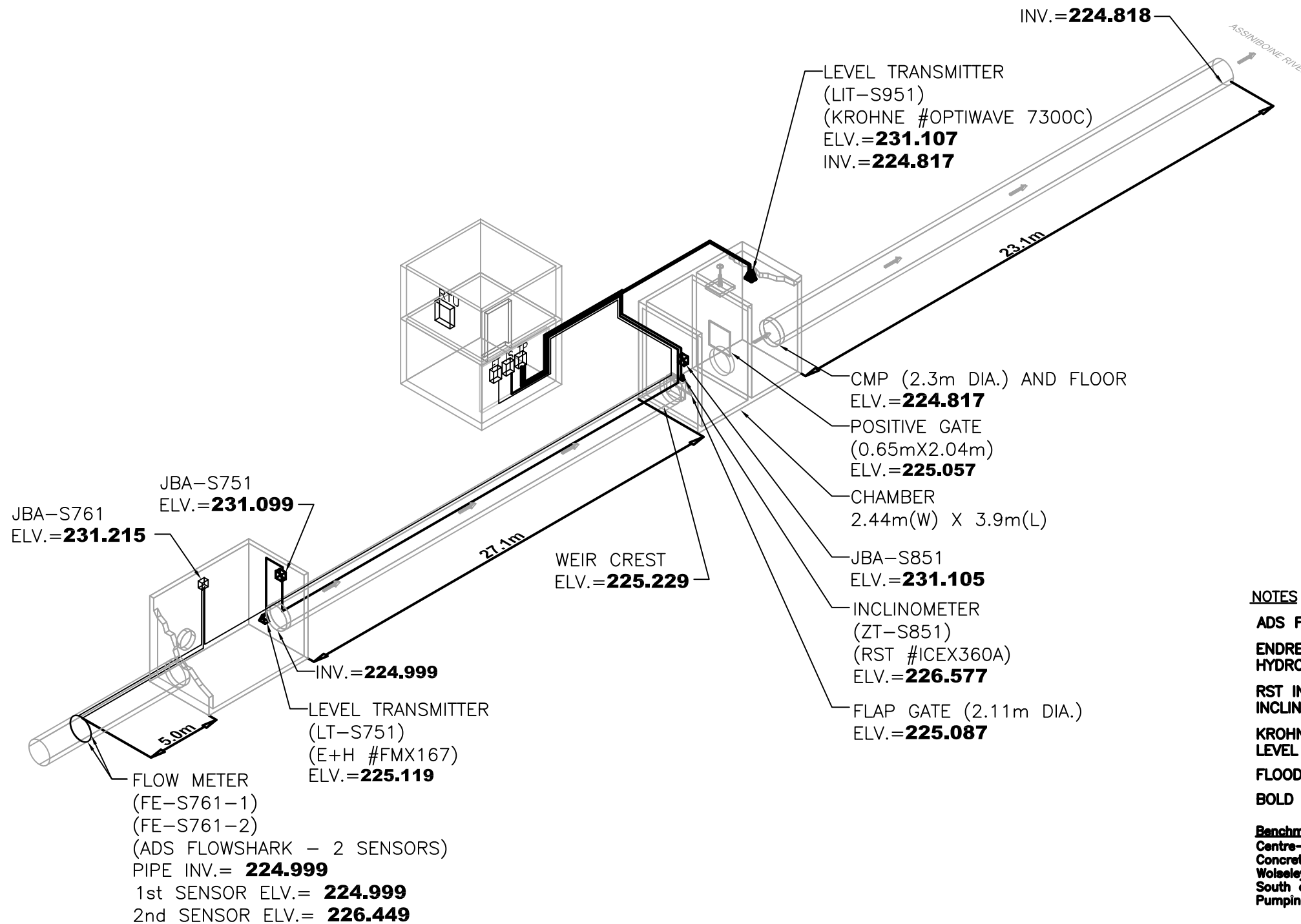


THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

CSO OUTFALL MONITORING
 NEWTON AVENUE
 3D ISOMETRIC PLAN

SHEET	OF
1	2
CAD FILE DRAWING NUMBER 14720e-3501-new.dwg	
CITY DRAWING NUMBER 1-0166-A-A0202-001-00	

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**

Benchmark Elevation = 231.473
 Centre-Punch w/Cross-Hairs on NE Corner
 Concrete Pad Gate Chamber - adjacent 1554
 Wolseley Av W - 1.27m West and 3.05m
 South of SW Projected Corner of Tylehurst
 Pumping 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



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 CLIENT REVIEW	15.02.11	J.C.
A	ISSUED FOR CLIENT REVIEW	14.01.15	J.C.

Stantec
 500-311 Portage Avenue, 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	2013.12.04	DATE	

ENGINEER'S SEAL

CONSULTANT DRAWING NO.
E-0501

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

CSO OUTFALL MONITORING
 TYLEHURST
 3D ISOMETRIC PLAN

SHEET	OF
1	2
CAD FILE DRAWING NUMBER 14720e-0501-tyl.dwg	
CITY DRAWING NUMBER 1-0193-A-A0202-001-00	