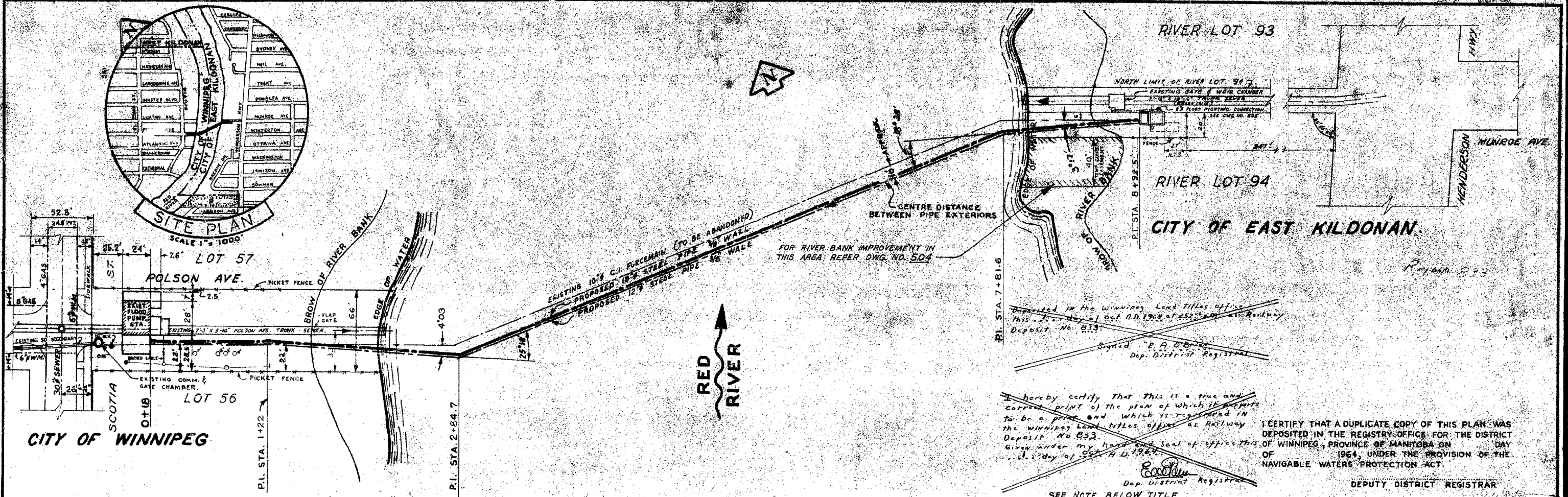


REFERENCE:
Field Book No 31

APPROVED

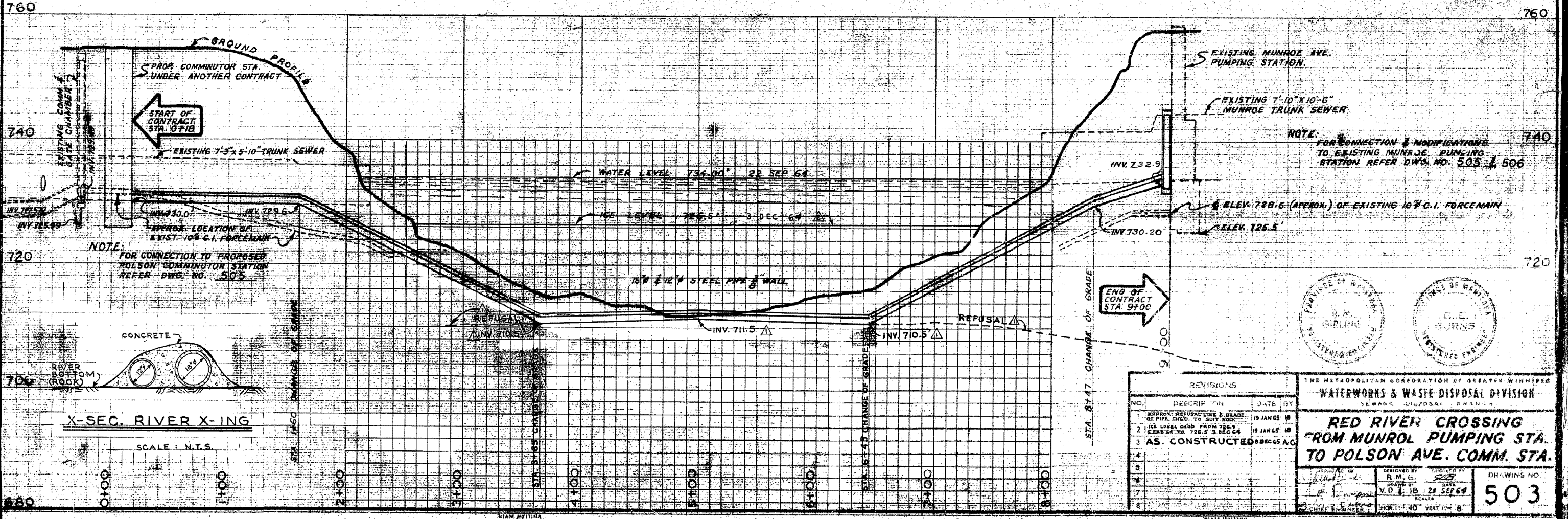
GREATER WINNIPEG SANITARY DISTRICT W. S. [Name] Consulting Engineer APPROVED: [Signature]		TITLE: MUNROE AVE. RIVER CROSSING PLAN AND PROFILE DATE: Jan 15-1936 DRAWN BY: [Name] CHECKED BY: [Name]
SPECIAL NOTE: April 1936 Pipe and Profile Changed See B. Munroe Pumping Station Contract so noted Ref. D. June 8 th 1937 General Revisions to conform with Field Notes		[Signature] [Signature]



Deposited in the Winnipeg Land Titles Office
 This 21st day of Oct. A.D. 1964 at 5:52^{PM} by
 Deposit No. 833
 Signed "E. A. O'Brien"
 Dep. District Registrar

hereby certify that this is a true and
 correct print of the plan of which it appears
 to be a part and which is registered in
 the Winnipeg Land Titles Office as Railway
 Deposit No. 833.
 Given under my hand and seal of office this
 21st day of Oct. A.D. 1964.
 E. A. O'Brien
 Dep. District Registrar
 SEE NOTE BELOW TITLE.

I CERTIFY THAT A DUPLICATE COPY OF THIS PLAN WAS
 DEPOSITED IN THE REGISTRY OFFICE FOR THE DISTRICT
 OF WINNIPEG, PROVINCE OF MANITOBA ON _____ DAY
 OF _____ 1964, UNDER THE PROVISION OF THE
 NAVIGABLE WATERS PROTECTION ACT.
 DEPUTY DISTRICT REGISTRAR



NOTE: FOR CONNECTION & MODIFICATIONS
 TO EXISTING MUNROE PUMPING
 STATION REFER DWG. NO. 505 & 506

NOTE: APPROX. LOCATION OF
 EXIST. 10" C.I. FORCEMAIN
 FOR CONNECTION TO PROPOSED
 POLSON COMMUNICATOR STATION
 REFER DWG. NO. 505

NOTE: STA. 8+47 CHANGE OF GRADE
 END OF CONTRACT STA. 9+00

NO.	DESCRIPTION	DATE BY
1	APPROX. REFUSAL LINE & GRADE FOR PIPE CHGD. TO BUILT ROCK	19 JAN 65 JB
2	ICE LEVEL CHGD. FROM 726.3 ELEV. TO 724.5	19 JAN 65 JB
3	AS. CONSTRUCTED	28 SEP 64 AG
4		
5		
6		
7		
8		

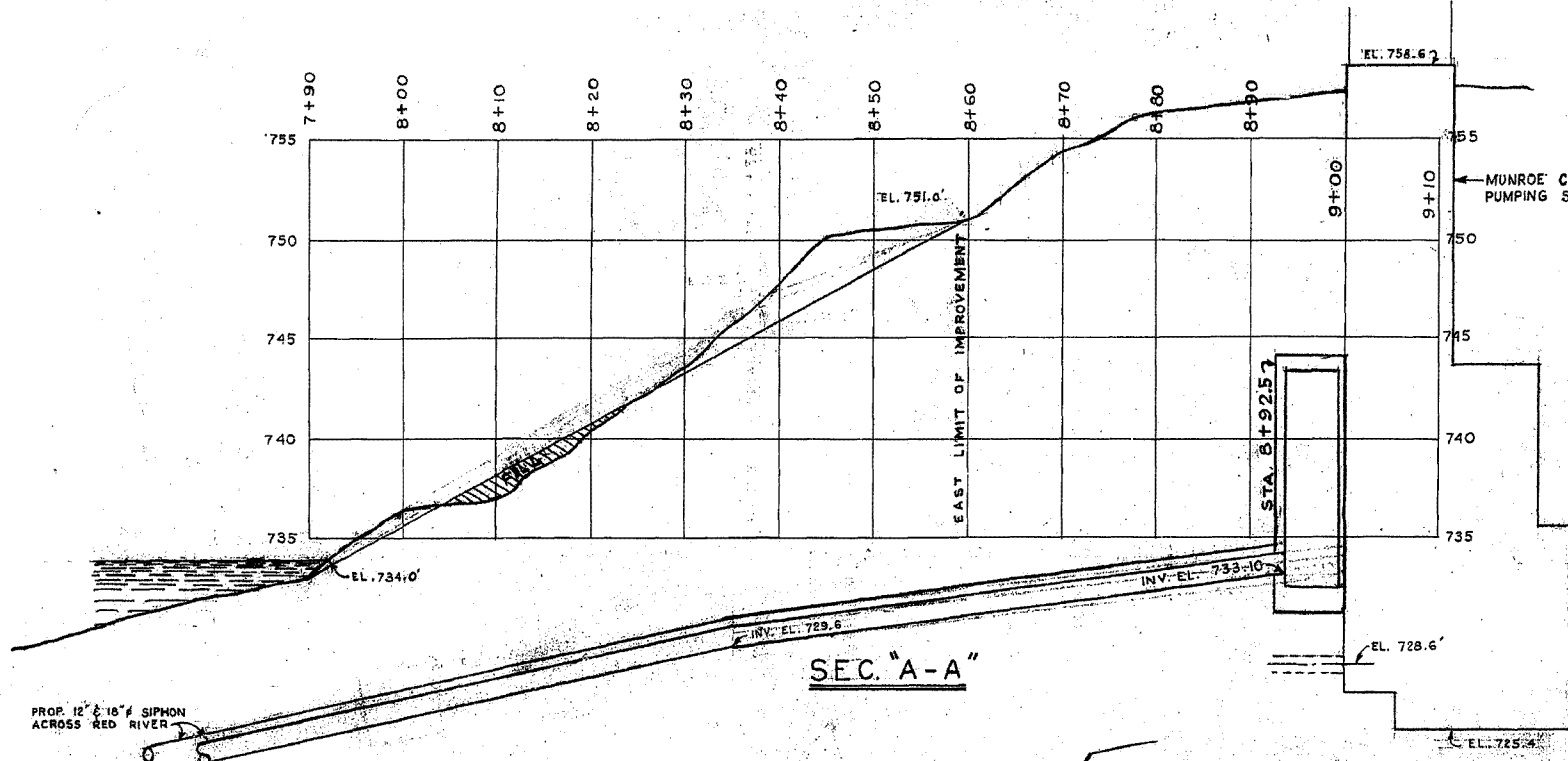
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
 WATERWORKS & WASTE DISPOSAL DIVISION
 SEWAGE DISPOSAL BRANCH

**RED RIVER CROSSING
 FROM MUNROE PUMPING STA.
 TO POLSON AVE. COMM. STA.**

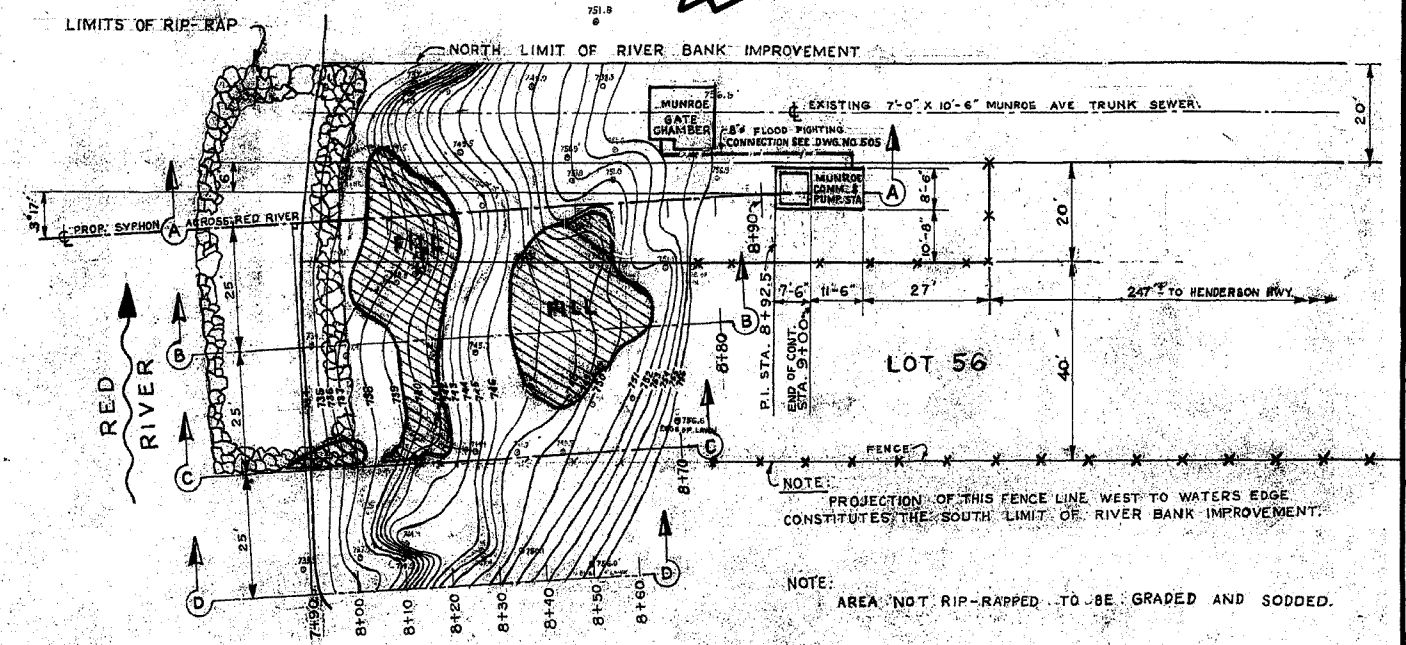
DESIGNED BY: R.M.G.
 CHECKED BY: V.D.J.B.
 DATE: 28 SEP 64
 SCALE: 1" = 40' VERT. 1" = 8'

DRAWING NO. **503**

NOTE: FOR REGD. PLAN ORIGINAL, READ WITH WINNIPEG LAND TITLES OF
 DEPT. OF PUBLIC WORKS OF W.A. SEE SEPIA OF DWG. NO. 503

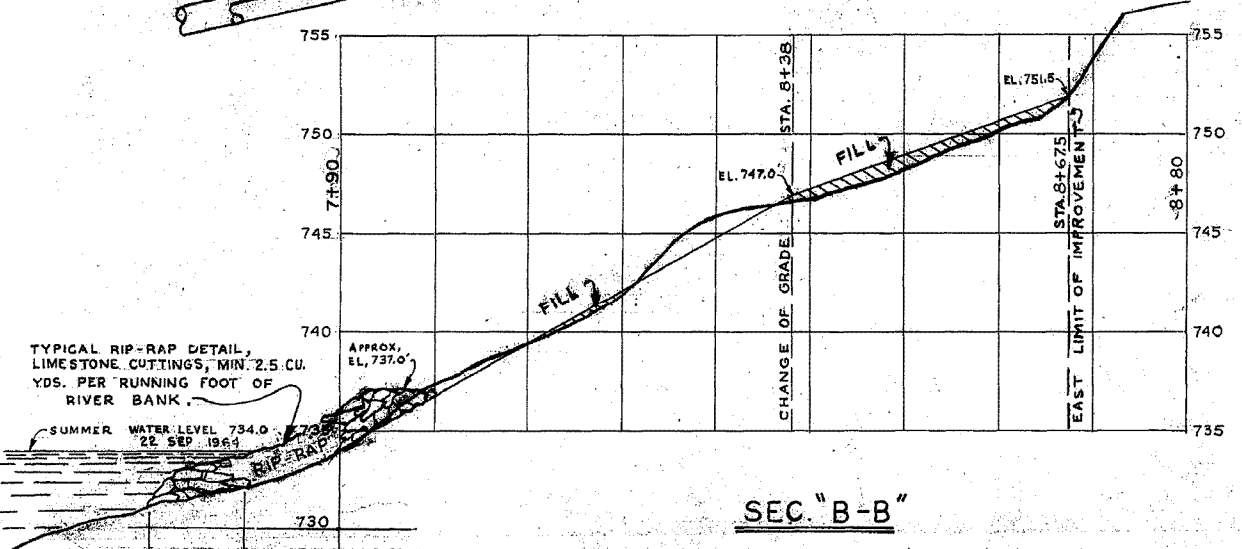


SEC. "A-A"

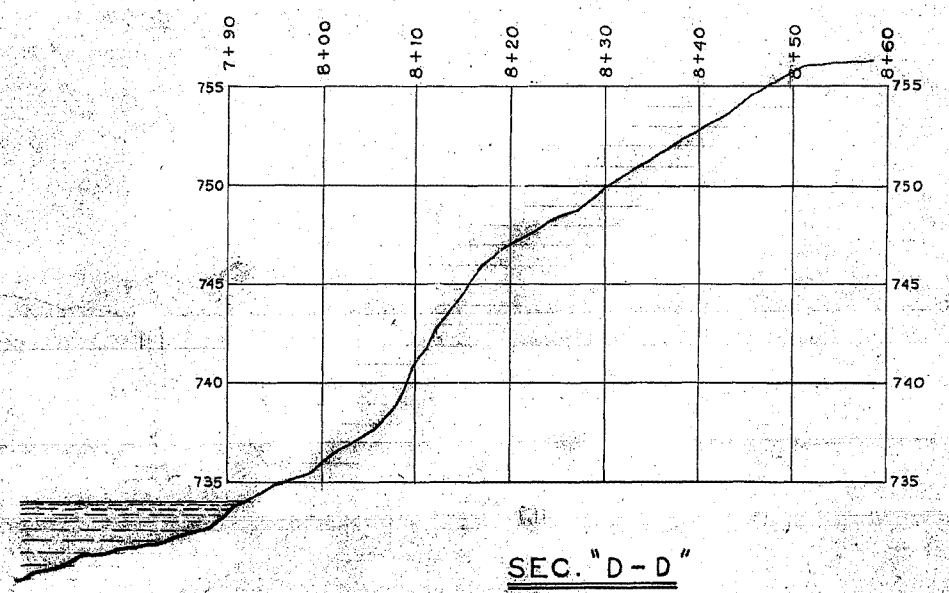


SITE PLAN

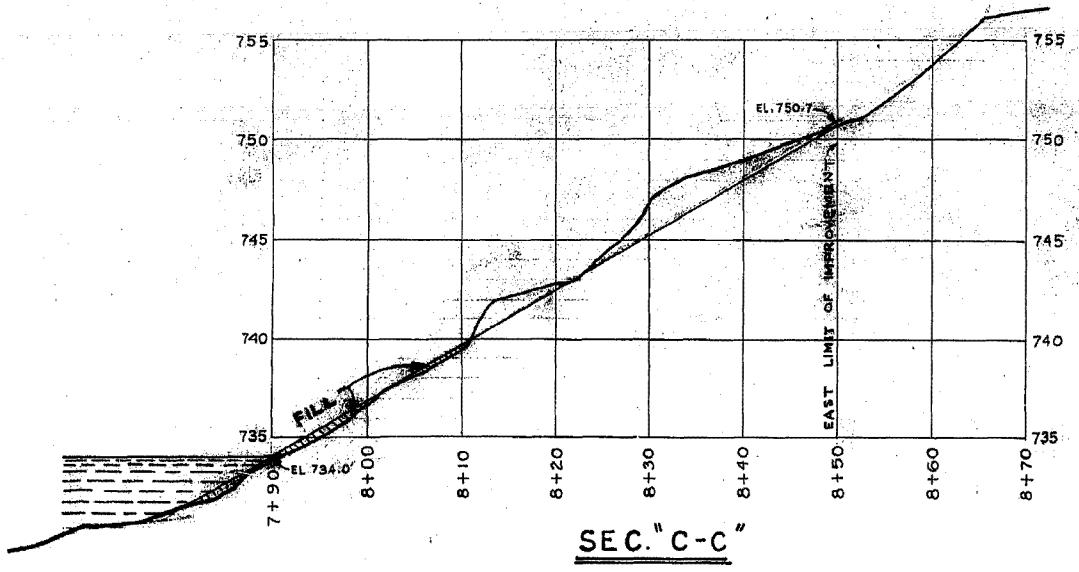
SCALE 1"=20'



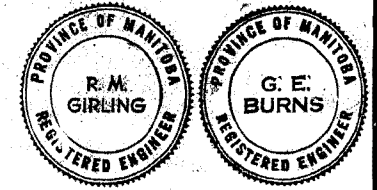
SEC. "B-B"



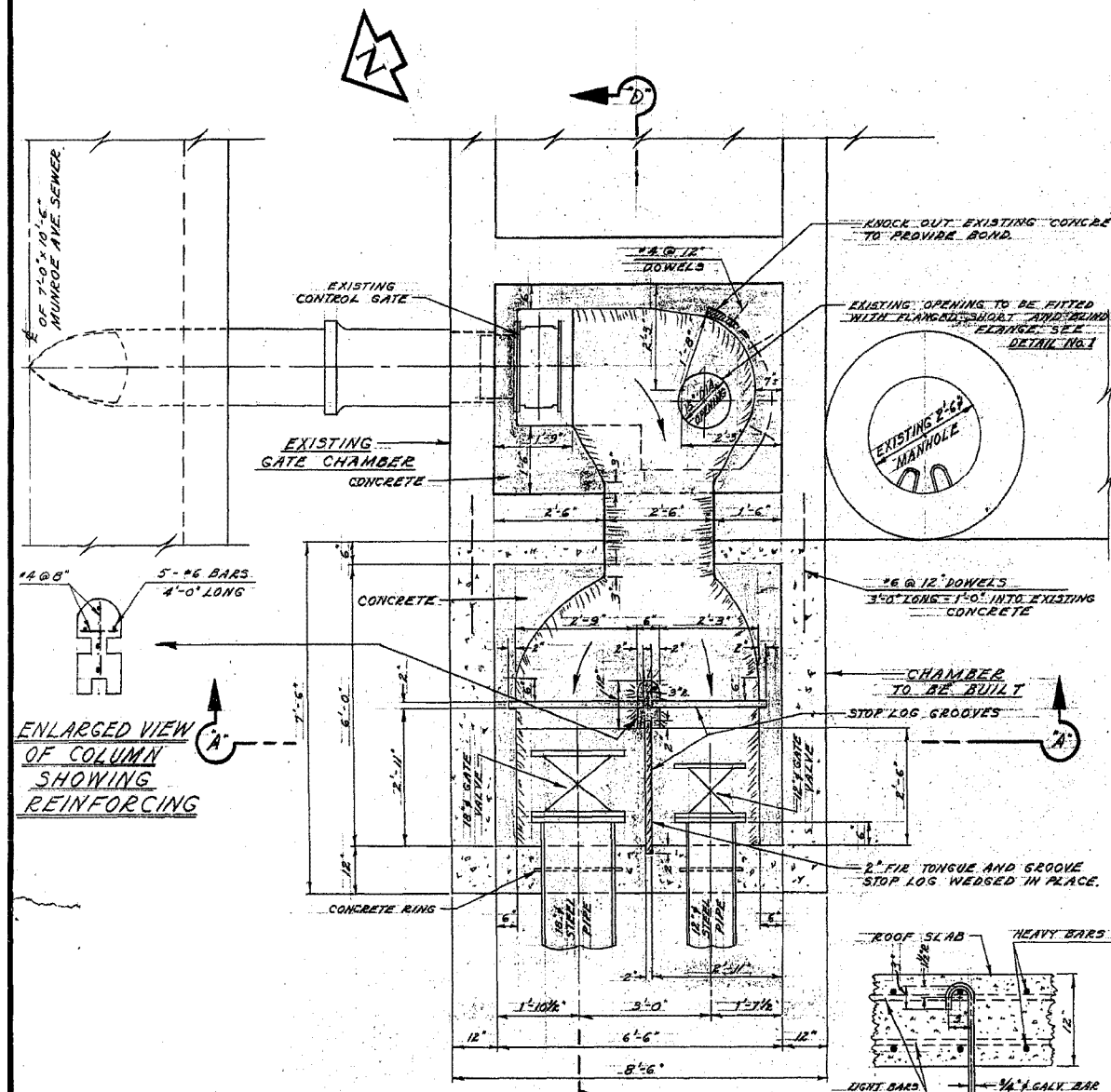
SEC. "D-D"



SEC. "C-C"

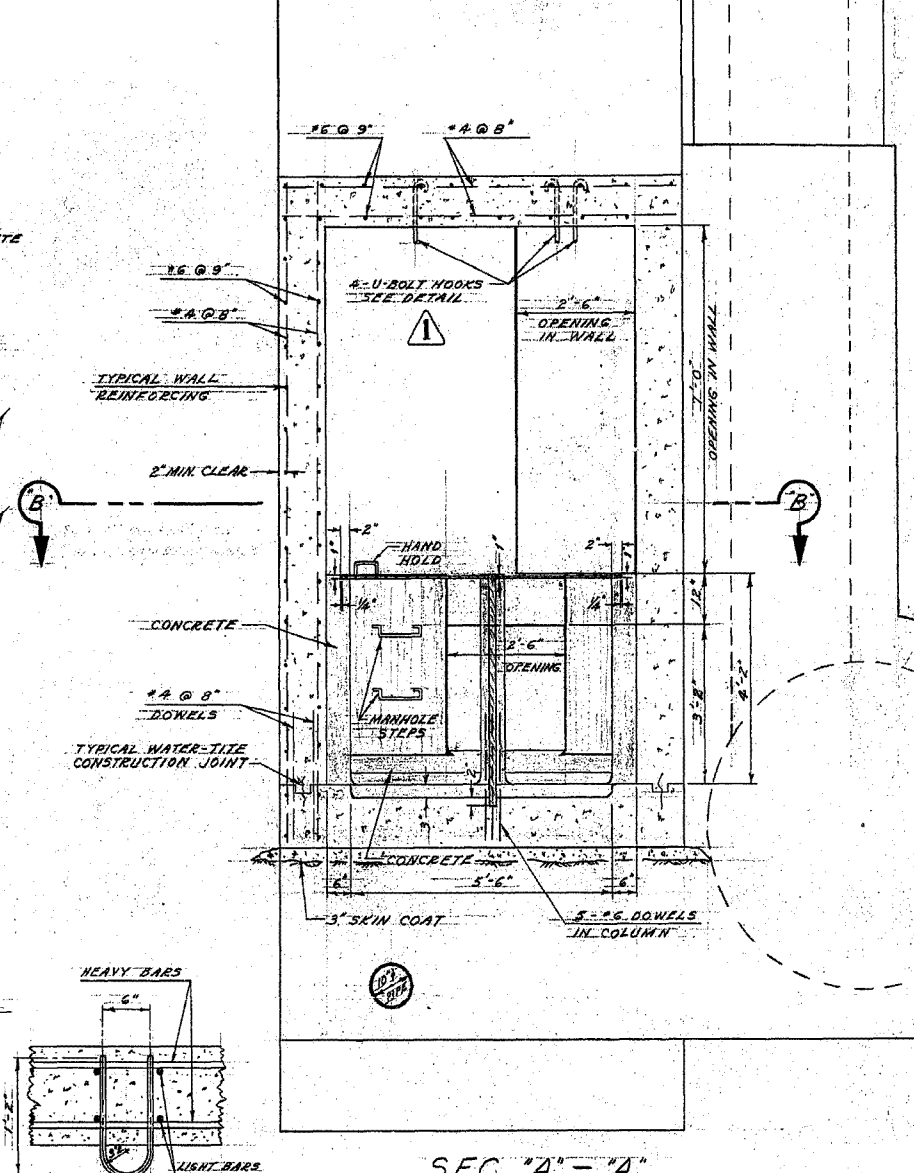


THE METROPOLITAN CORPORATION OF GREATER WINNIPEG WATERWORKS & WASTE DISPOSAL DIVISION N. S. BUBBIS - DIRECTOR	SEWAGE DISPOSAL - DEPT. MUNROE - POLSON RIVER X-ING	DR. R. GIRLING CH'KD. <i>[Signature]</i> DRN. H. BURNHAM DATES NOV 1964 ENG. DES. <i>[Signature]</i> ENG. WASTE DEP. <i>[Signature]</i> APPROVED <i>[Signature]</i>	SCALE AS NOTED HORIZ. 1" = 10' VERT. 1" = 5' DRAWING NO. 504
	RIVER BANK IMPROVEMENT EAST BANK.		

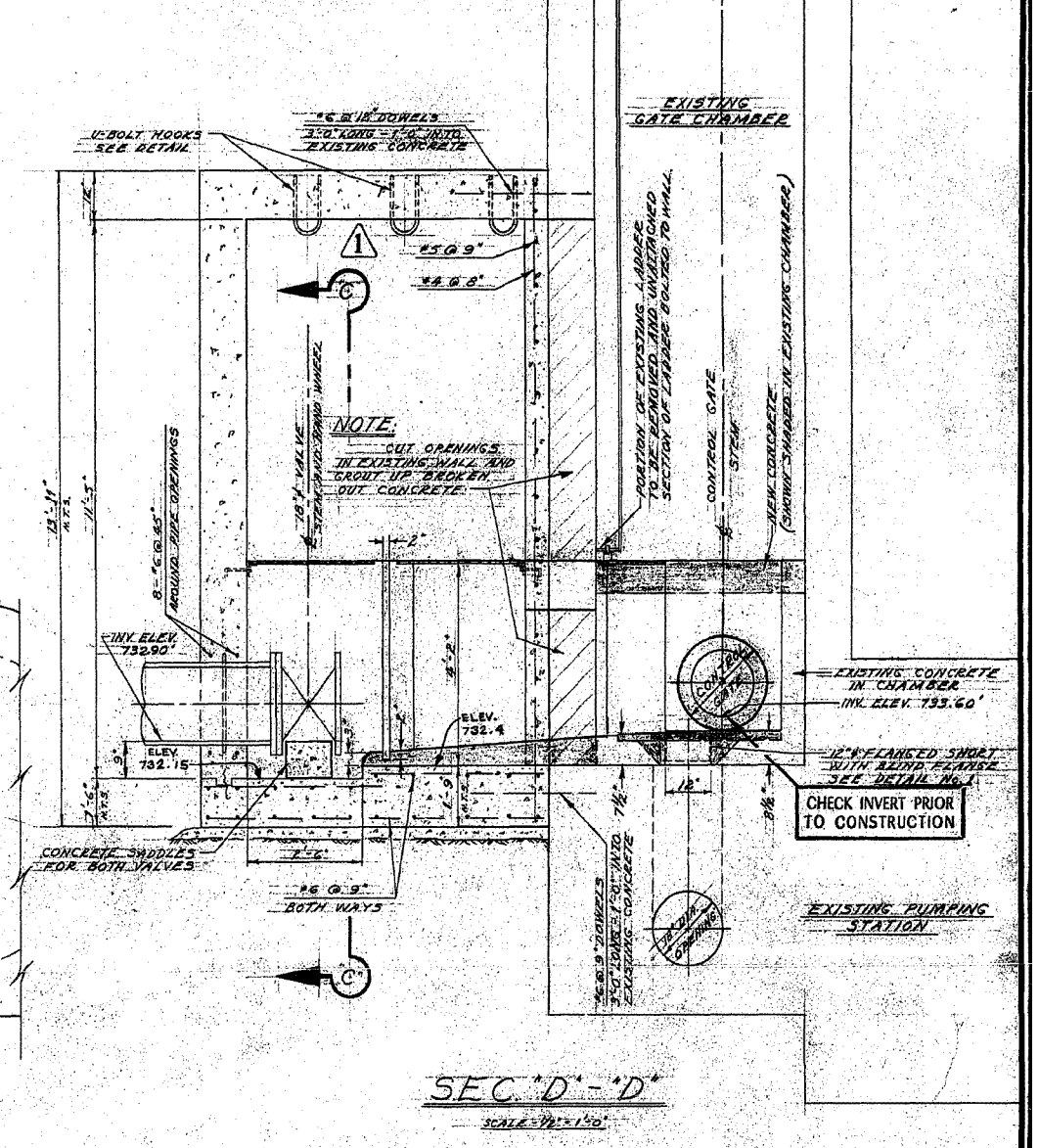


ENLARGED VIEW OF COLUMN SHOWING REINFORCING

FLOOR PLAN

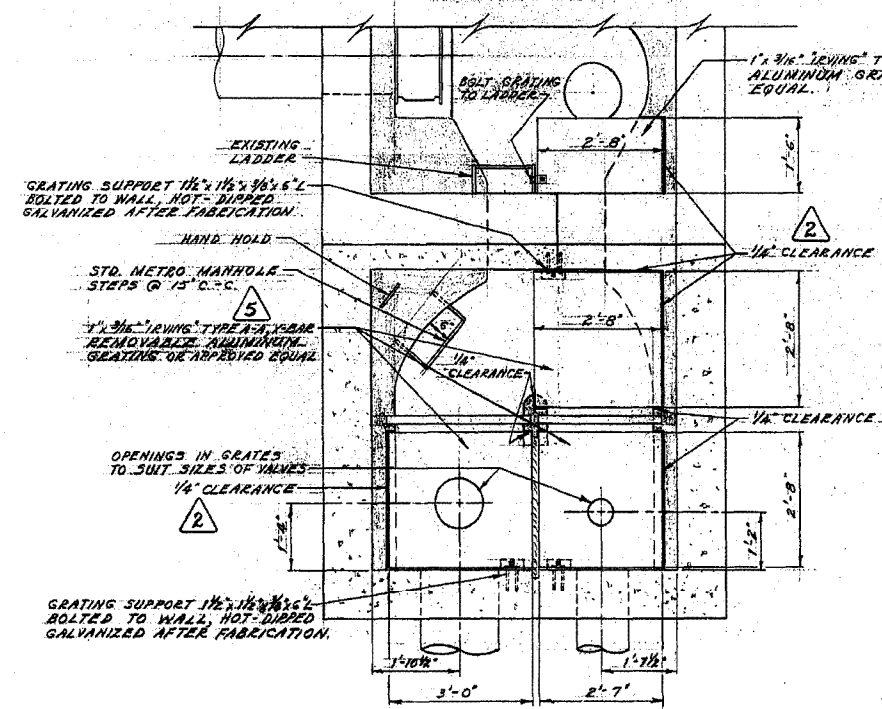


SEC. 'A'-'A'

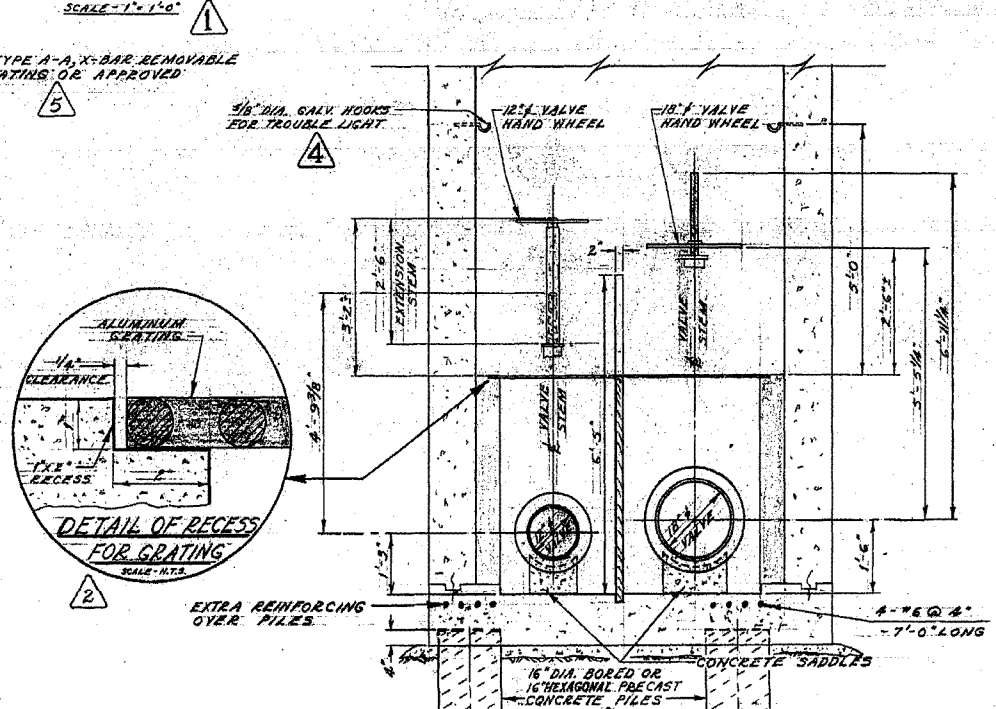


SEC. 'D'-'D'

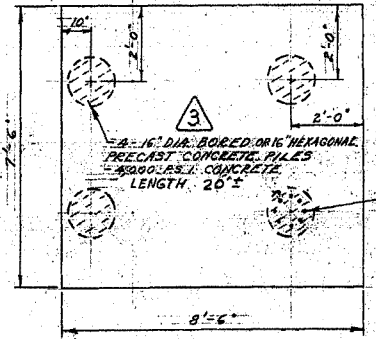
CROSS-SECTION LONG SECTION
DETAIL OF U-BOLT HOOK
SCALE - 1" = 1'-0"



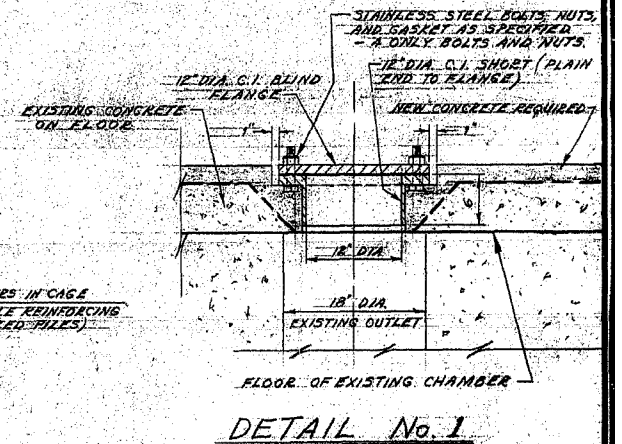
SEC. 'B'-'B'
PLAN OF GRATINGS



SEC. 'C'-'C'



LOCATION OF PILES ON FLOOR SLAB
SCALE - 3/8" = 1'-0"



DETAIL No. 1
SCALE - 1" = 1'-0"

NO.	DESCRIPTION	DATE BY
AS CONSTRUCTED		18 NOV. 66 A.G.
1	TYPE OF IRVING'S GRATE ADDED - TYPE 'A-A'	24 NOV. 66 S.R.
2	HOOKS FOR TROUBLE LIGHTS ADDED	24 NOV. 66 S.R.
3	USE OF PRECAST PILES AS ALTERNATE IRVING	24 NOV. 66 S.R.
4	DETAIL OF 1/2\"/>	

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS & WASTE DISPOSAL DIVISION
N. S. BUBBIS - DIRECTOR

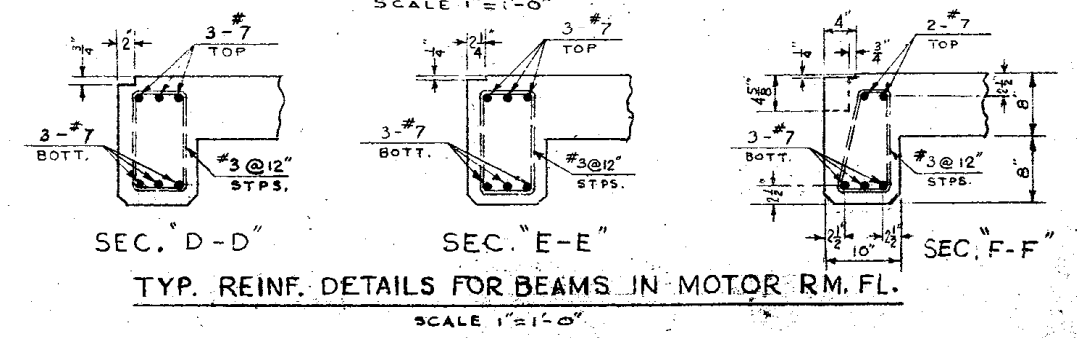
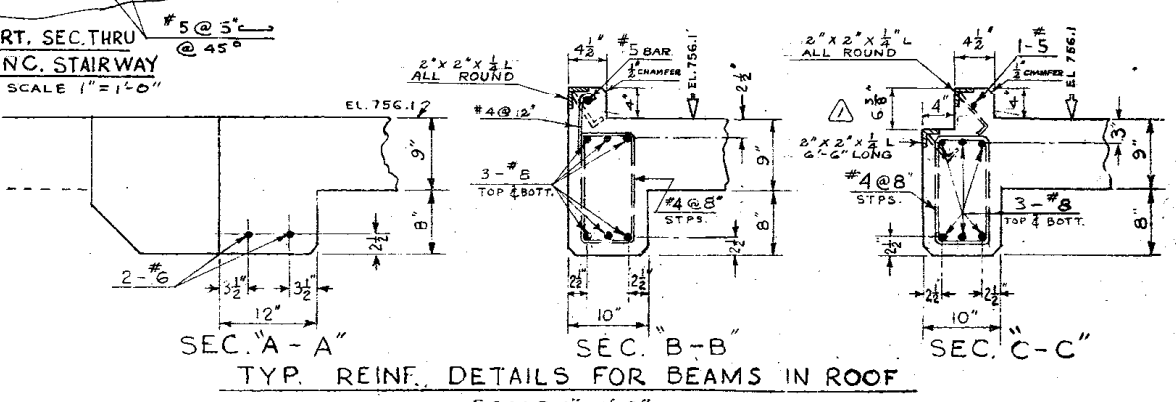
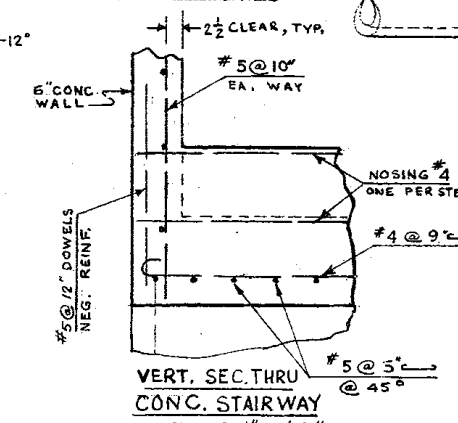
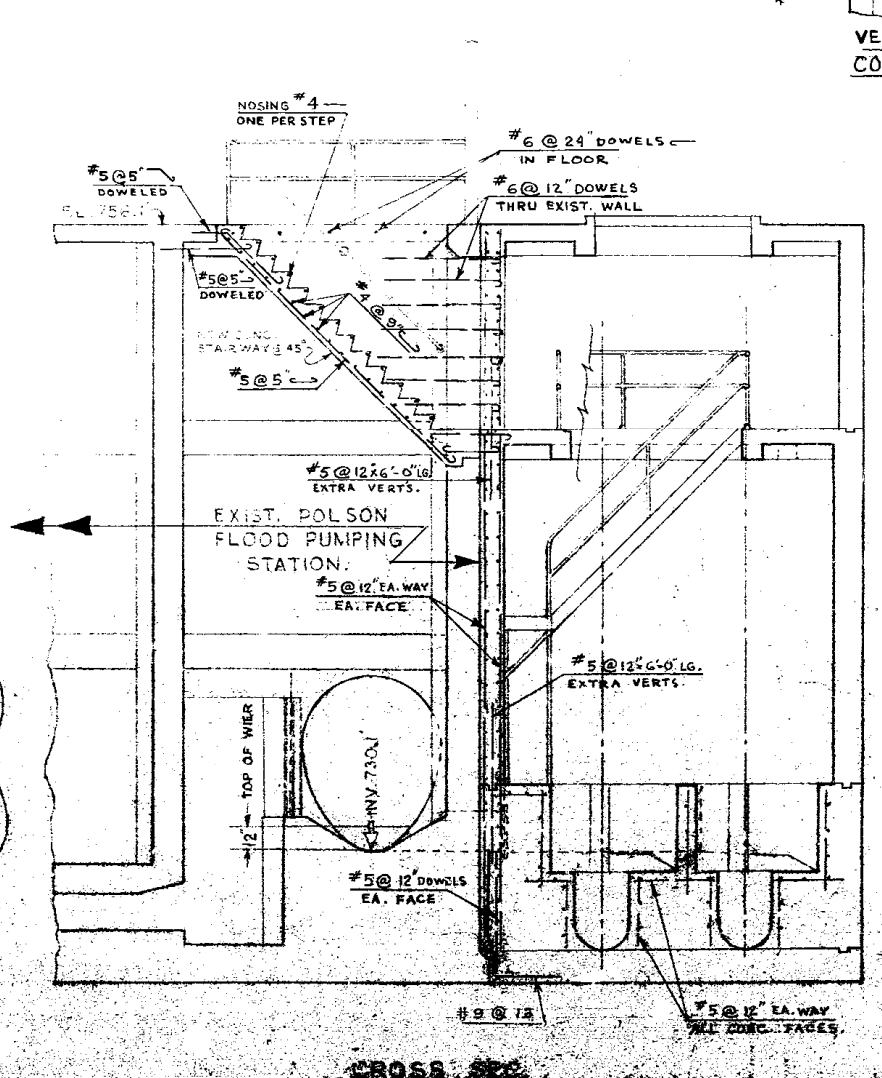
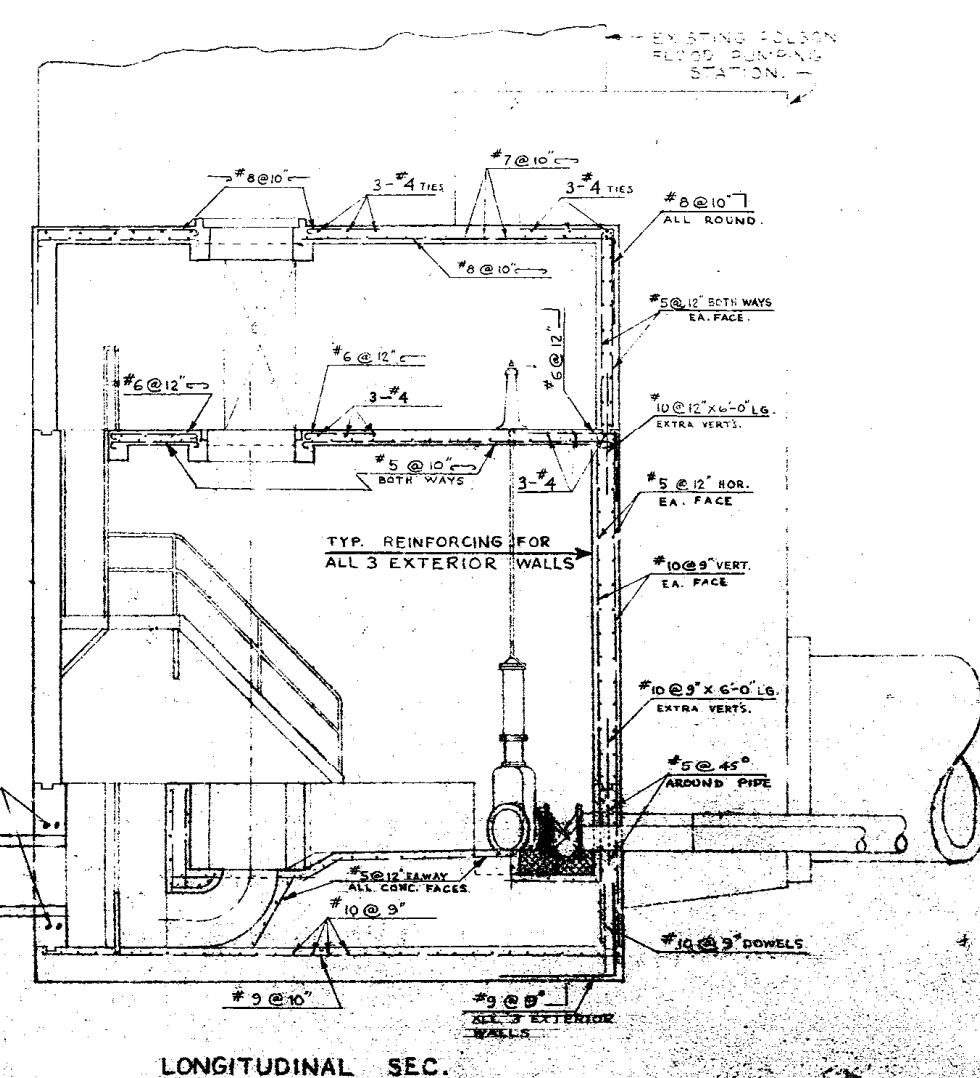
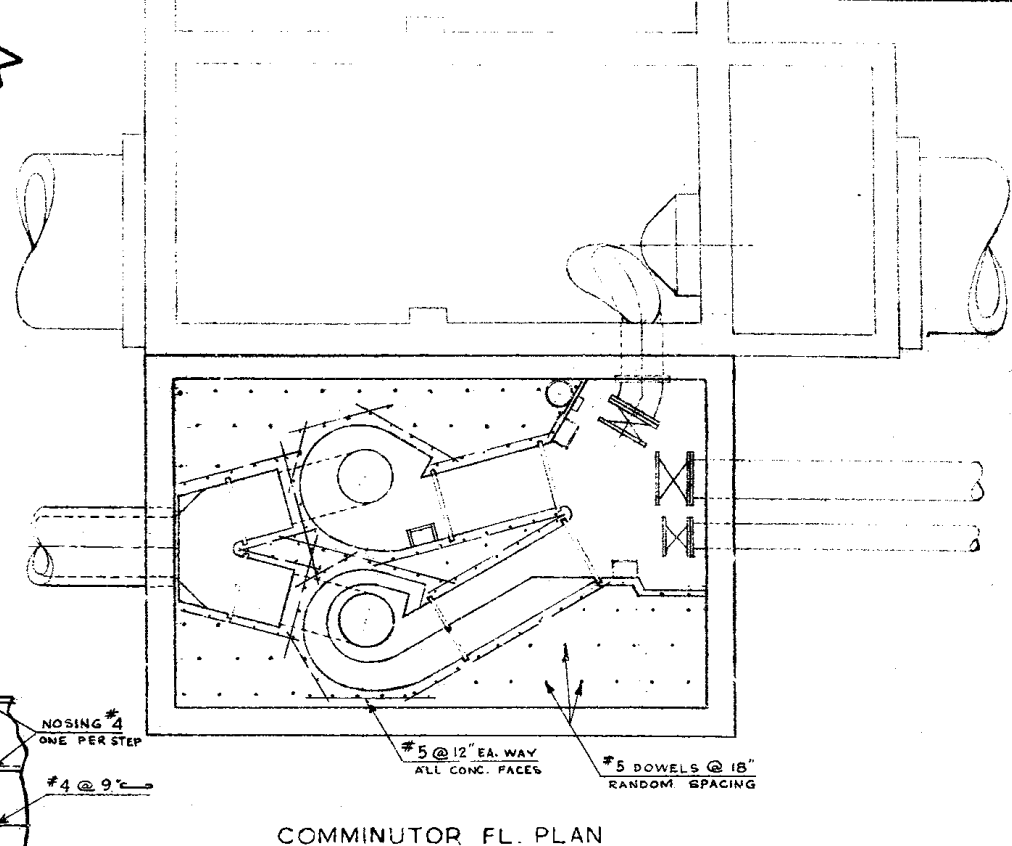
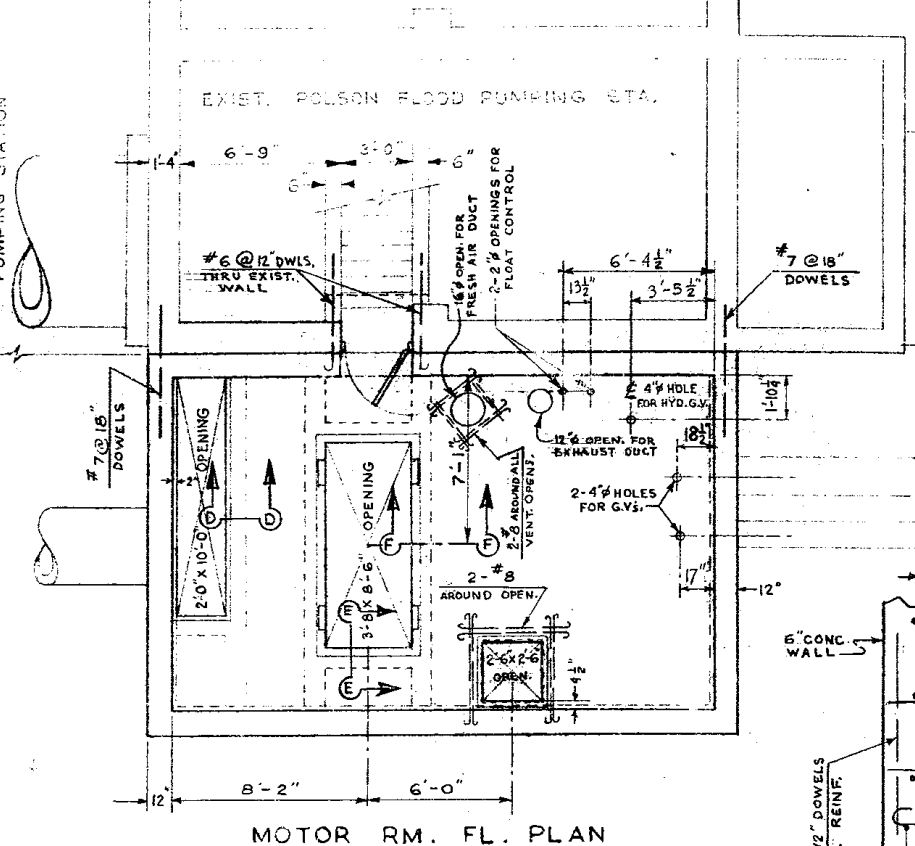
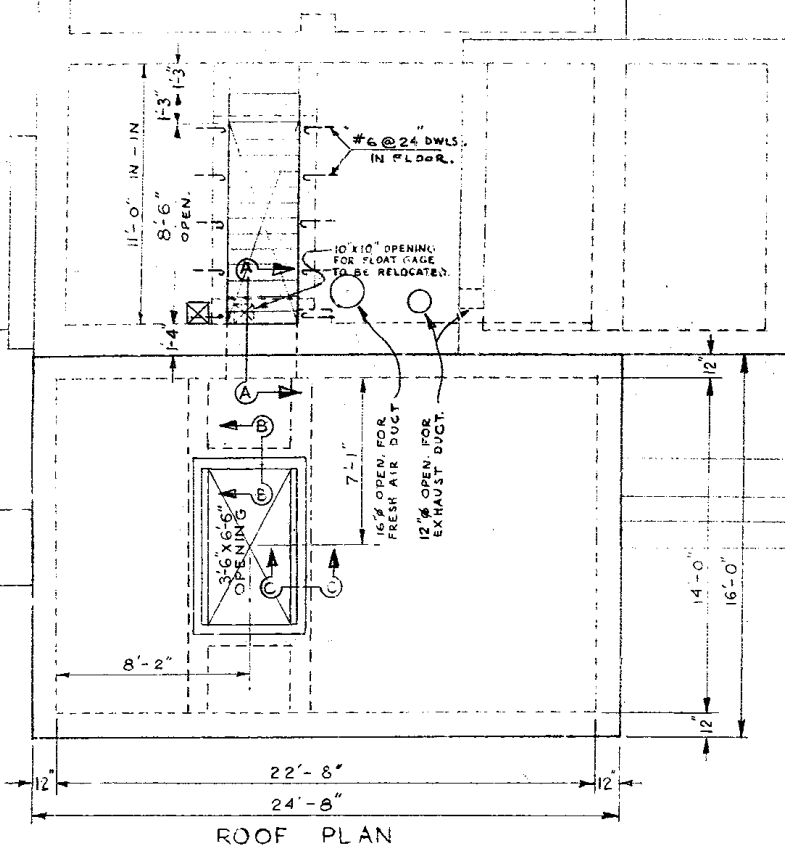
SEWAGE DISPOSAL
MUNROE - POLSON RIVER CROSSING
ALTERATIONS TO MUNROE AVE. PUMPING STATION & PROP. SIPHON INLET CHAMBER

DEPT. ENR. S.K. DATE 18 NOV. 66
ENR. DES. J. [Signature]
ENR. WASTE DES. P. [Signature]

PROVINCE OF MANITOBA REGISTERED ENGINEER
G. E. BURNS

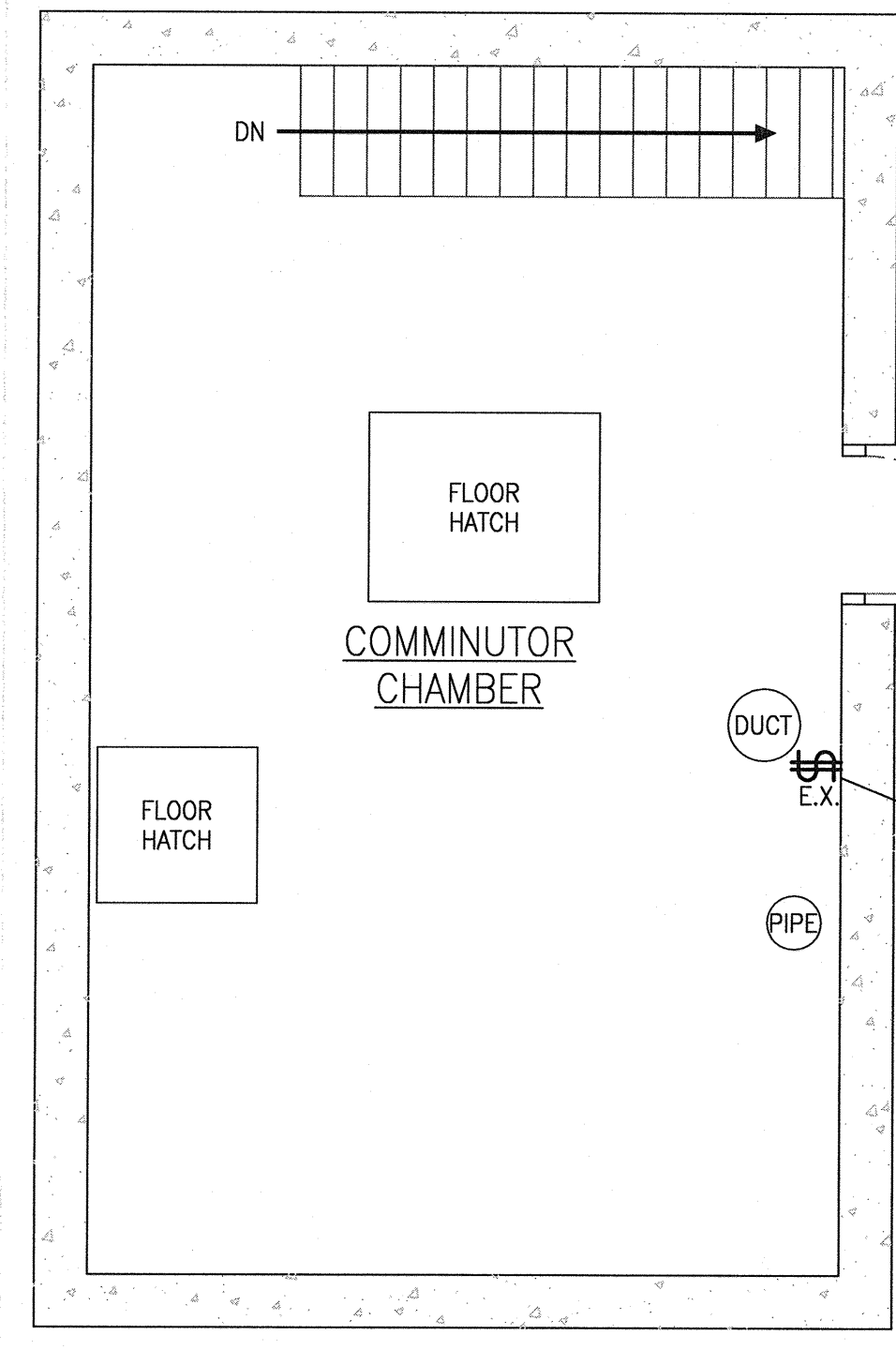
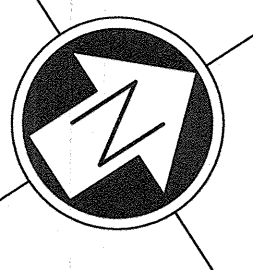
PROVINCE OF MANITOBA REGISTERED ENGINEER
R. M. GIRLING

SCALE 1/2" = 1'-0" AND AS NOTED.
DRAWING NO. 506

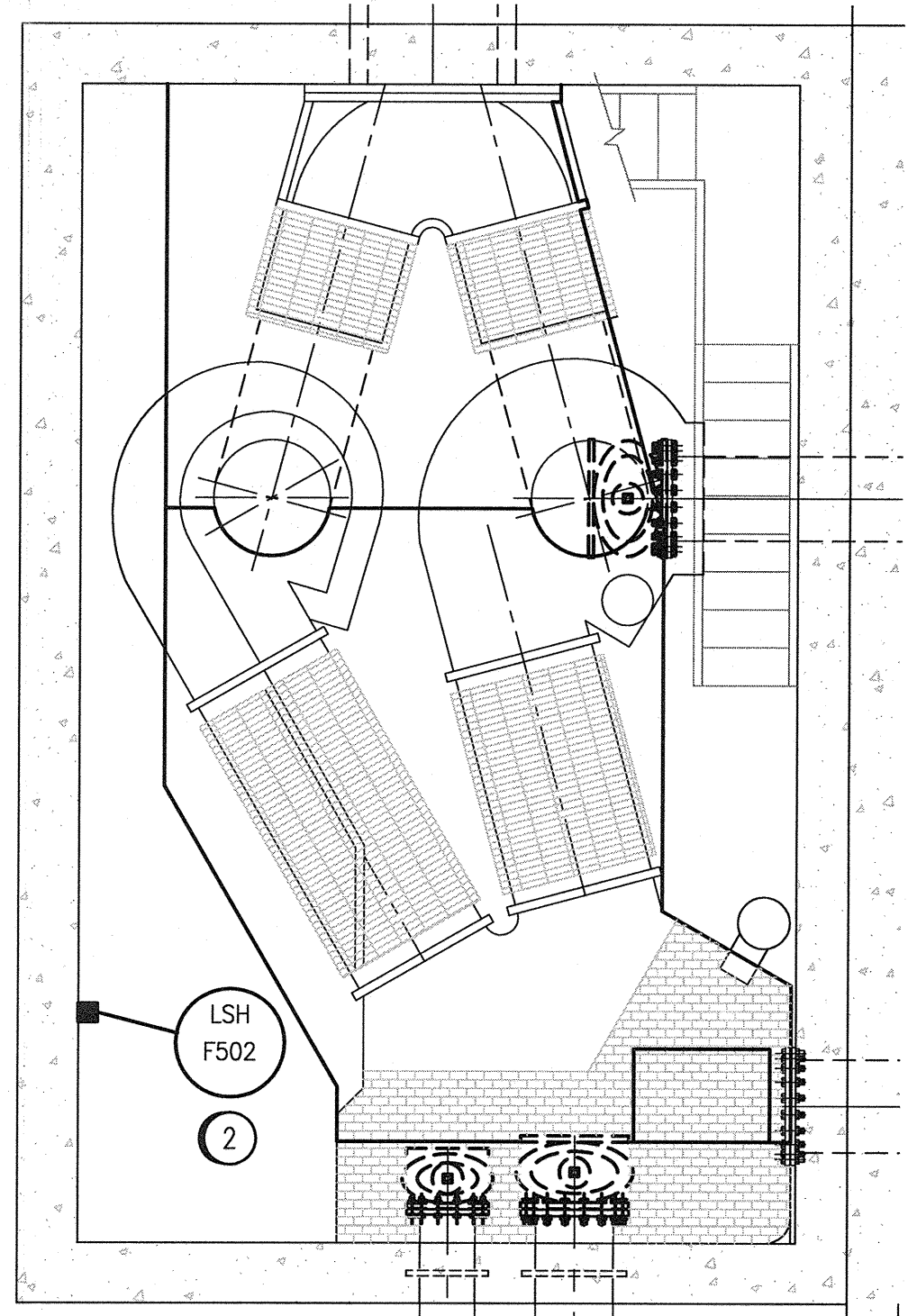


THE METROPOLITAN CORPORATION OF GREATER WINNIPEG WATERWORKS & WASTE DISPOSAL DIVISION	SEWAGE DISPOSAL DEPT. POLSON COMMUNOTOR STA. REINFORCING STEEL DETAILS	DR. M. GLEZAK DR. H. BUSMAN DR. J. ... DR. ...	1-0 512
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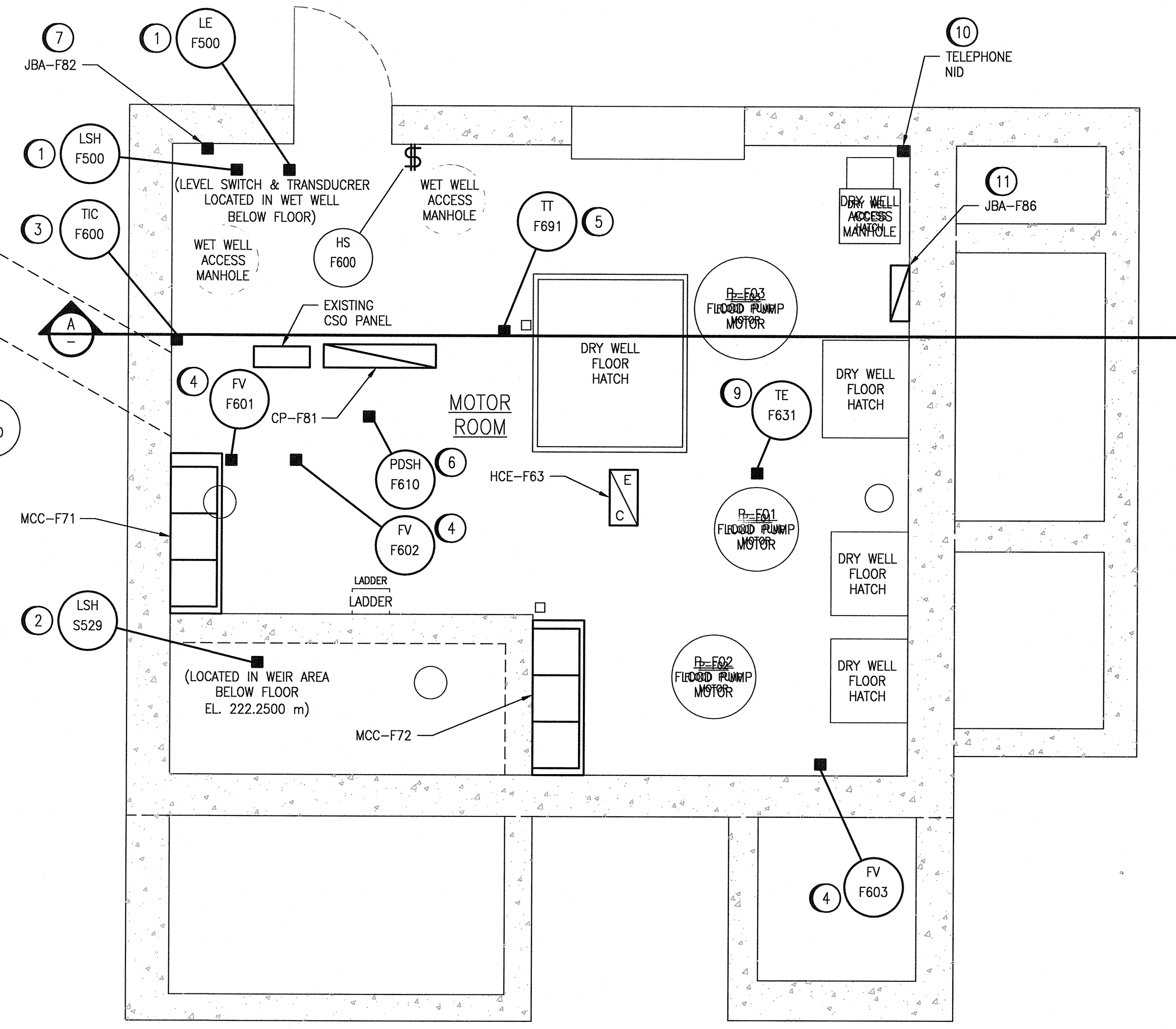
1 DEAN 2 3 4 5 6 7 8 MADE IN 9 ENGLAND 10 11 12 13 14 15 16 17 18 19 20



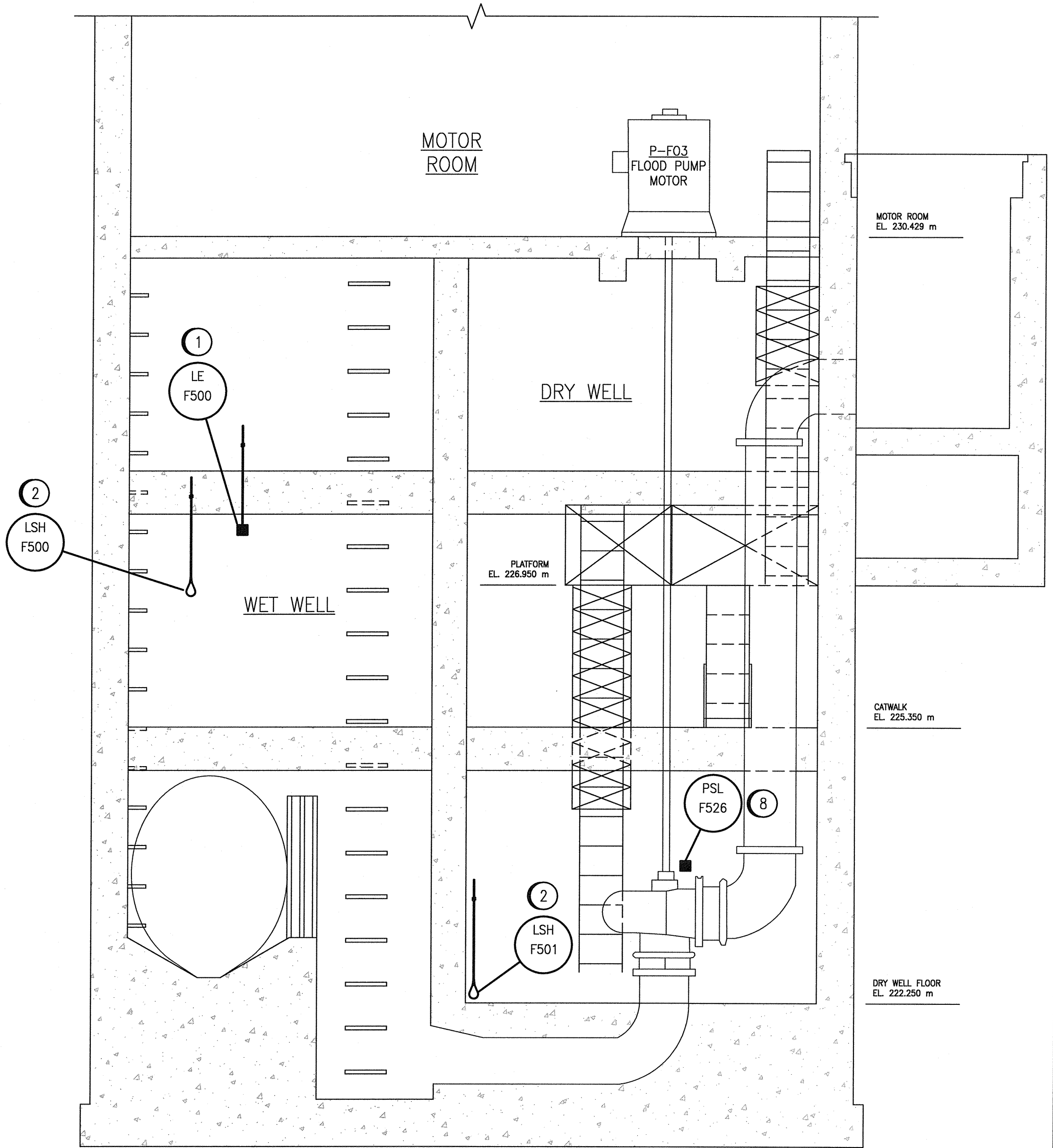
COMMUNOTOR CHAMBER PLAN EL. 227.838 m
SCALE: 1 : 40



COMMUNOTOR CHAMBER LOWER LEVEL PLAN EL. 223.353 m
SCALE: 1 : 40



MOTOR ROOM PLAN EL. 230.429 m
SCALE: 1 : 40



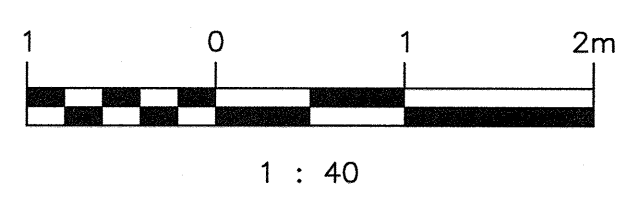
A SECTION
SCALE: 1 : 40

CONSTRUCTION NOTES:

1. PROVIDE AND INSTALL NEW ULTRASONIC LEVEL TRANSDUCER. PROVIDE LARGE ENOUGH DRILL HOLE SUCH THAT LEVEL TRANSDUCER CAN BE ACCESSED FROM MOTOR ROOM FLOOR ELEVATION. PROVIDE EXCESS CABLING AND CONDUIT TO ALLOW FOR HEIGHT ADJUSTMENT OF UP TO 4000 mm BELOW CEILING. FINAL ELEVATION WILL BE DETERMINED DURING CONSTRUCTION.
2. PROVIDE AND INSTALL NEW LEVEL SWITCH. PROVIDE EXCESS CABLING TO ALLOW FOR HEIGHT ADJUSTMENT. FINAL ELEVATION WILL BE DETERMINED DURING CONSTRUCTION.
3. PROVIDE AND INSTALL NEW TEMPERATURE CONTROLLER.
4. PROVIDE AND INSTALL NEW DAMPER ACTUATOR ALONG WITH JUNCTION BOX COMPLETE WITH TERMINALS FOR DAMPER ACTUATOR CONNECTIONS.
5. PROVIDE AND INSTALL NEW TEMPERATURE TRANSMITTER.
6. PROVIDE AND INSTALL NEW DIFFERENTIAL PRESSURE SWITCH.
7. PROVIDE AND INSTALL NEW INTRINSICALLY SAFE JUNCTION BOX, JBA-F82.
8. PROVIDE AND INSTALL NEW PRESSURE SWITCH. SWITCH SHALL BE LOCATED ADJACENT TO DRY WELL LADDER ON DRY WELL NORTHEAST WALL.
9. PROVIDE AND INSTALL NEW DUCT TEMPERATURE SENSOR.
10. PROVIDE AND INSTALL NEW TELEPHONE CABLING FROM THE EXISTING TELEPHONE N.I.D. TO THE CONTROL PANEL CP-F81 AND GROUND THE N.I.D..
11. PROVIDE AND INSTALL NEW VENTILATION PANEL, JBA-F86.

GENERAL NOTES:

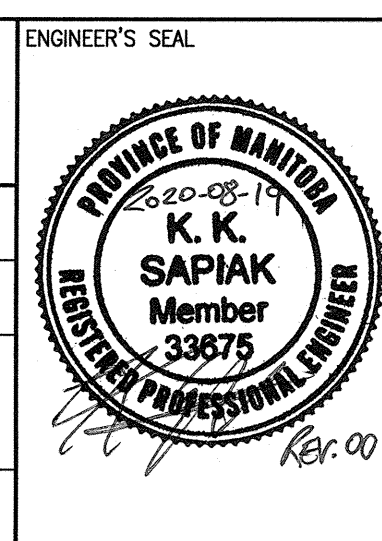
1. NEW HVAC EQUIPMENT IS NOT SHOWN FOR CLARITY.
2. REFER TO DRAWING 1-0179F-M0002 AND 1-0179F-M0003 FOR HVAC EQUIPMENT LOCATIONS.



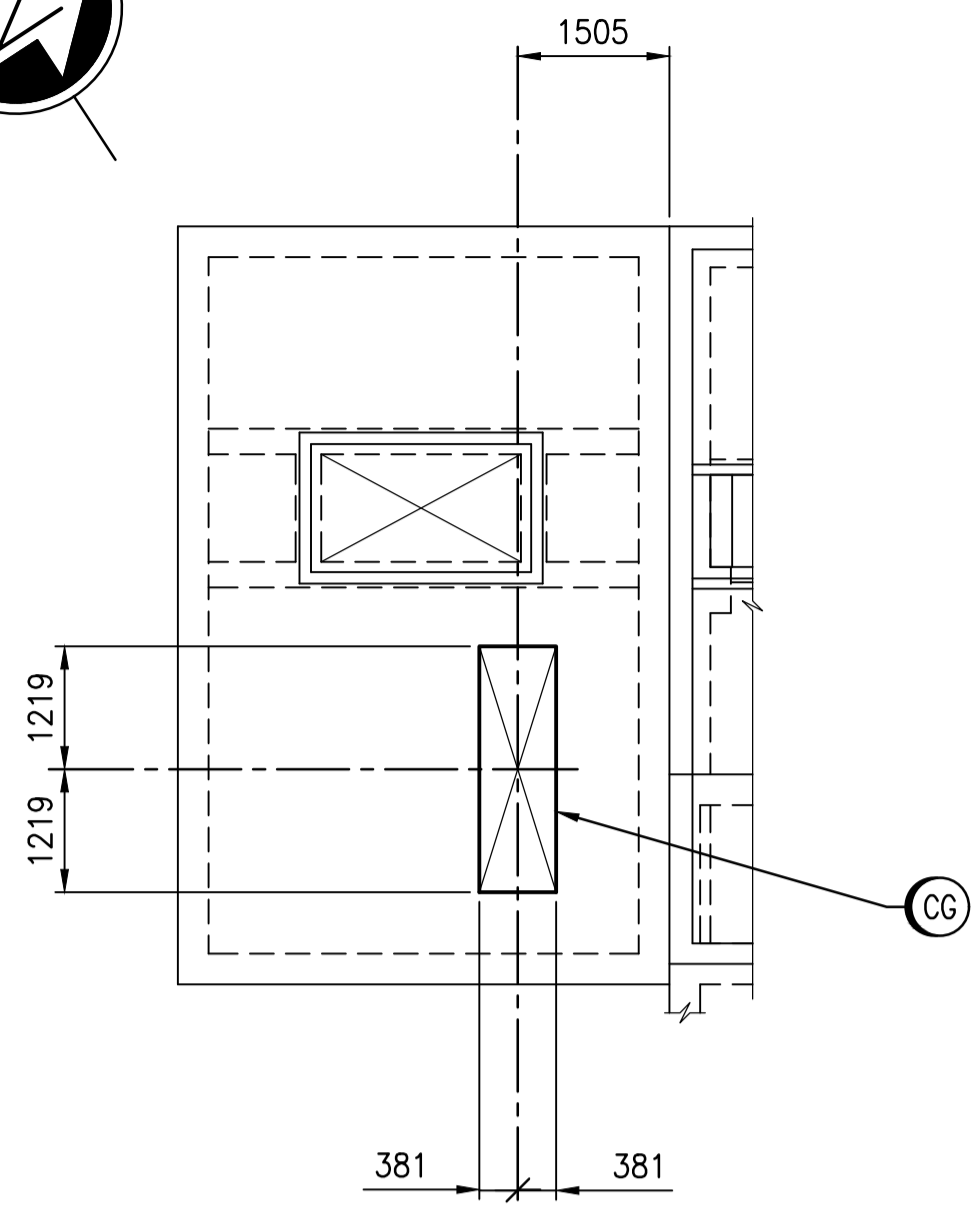
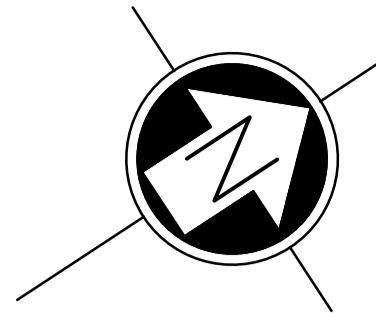
DRAWING NUMBER	REFERENCE DRAWINGS
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00	ISSUED FOR CONSTRUCTION	2020/08/19	KS	BC
NO.	REVISIONS	DATE	DESIGN	CHECK

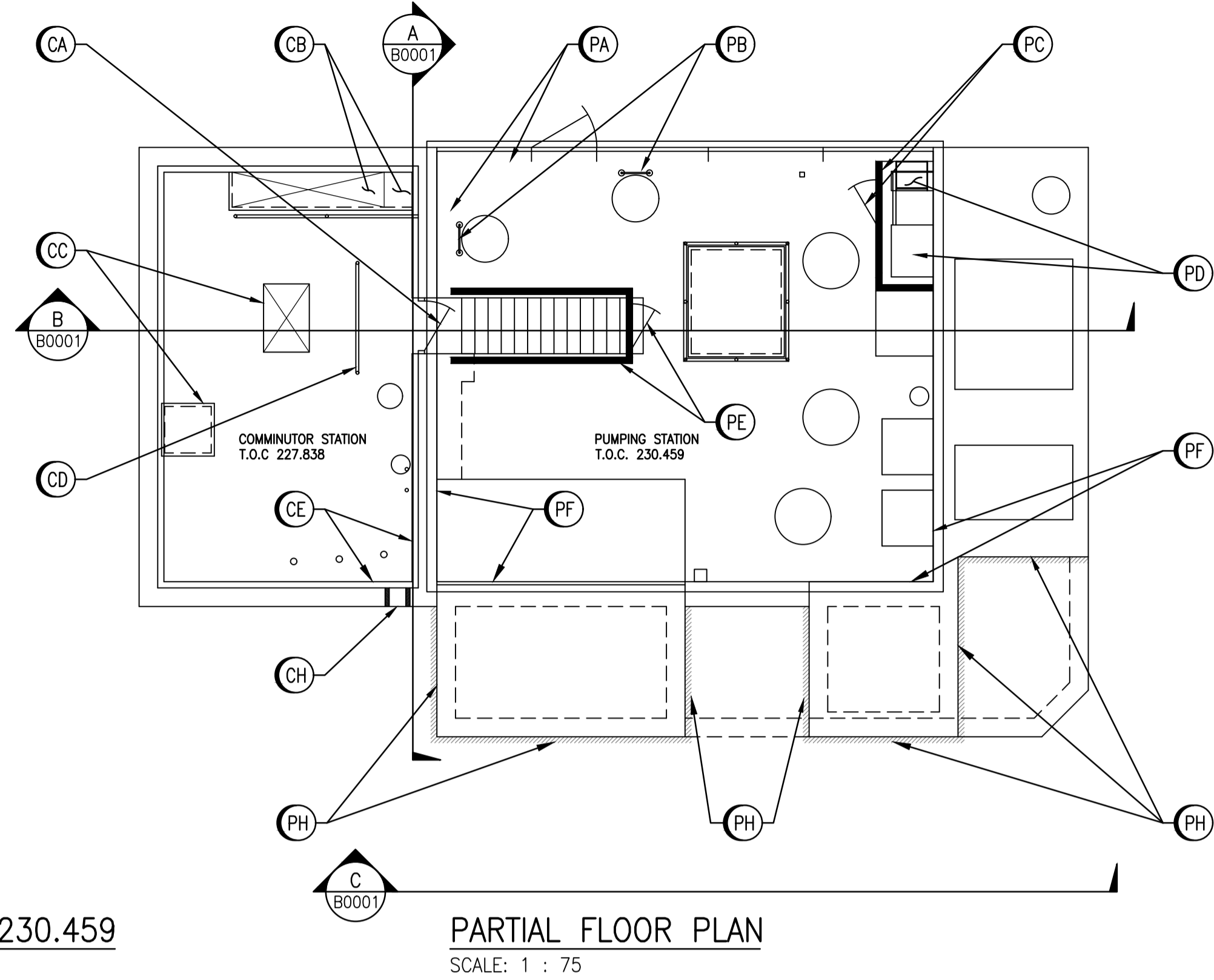
DESIGNED BY:	K. SAPIAK
DRAWN BY:	N. ESCHUK
SCALE:	AS SHOWN
DATE:	2020/04/16
CHECKED BY:	B. CLEVEN
APPROVED BY:	B. CLEVEN
ISSUED FOR CONSTRUCTION BY:	K. ZUREK
DATE:	2020/08/19
CONSULTANT NO.:	



POLSON FLOOD PUMPING STATION 2020 UPGRADES AUTOMATION PLAN LAYOUT MOTOR ROOM, COMMUNOTOR CHAMBER, WET WELL AND DRY WELL AREA	
CITY DRAWING NUMBER	1-0173F-A0001
SHEET	001
REV.	00
SIZE	A1



COMMINUTOR CHAMBER ROOF PLAN @ T.O.C. 230.459
SCALE: 1 : 75



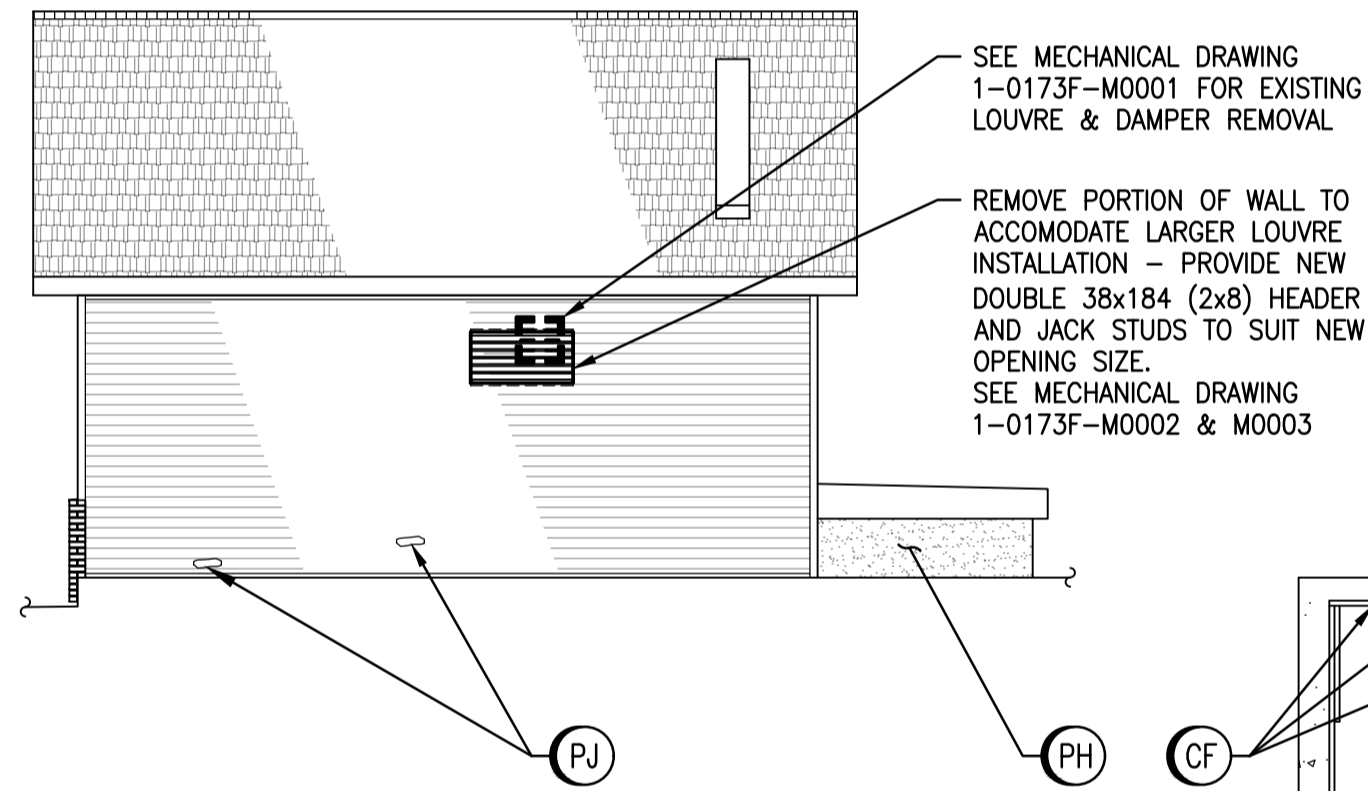
PARTIAL FLOOR PLAN
SCALE: 1 : 75

REMOVAL NOTES – COMMINUTOR(C) STATION:

- (CA) REMOVE DOOR/JAMB ASSEMBLY
- (CB) REMOVE PLYWOOD STAIRS COVERS
- (CC) REMOVE PLYWOOD AT FLOOR OPENINGS
- (CD) REMOVE GUARDRAIL AT OPERATOR CONTROL VALVE MECHANISM
- (CE) REMOVE LAYER(S) OF RIGID INSULATION ON ALL WALLS
- (CF) REMOVE LAYER OF RIGID INSULATION AT U/S CEILING, HATCH COVER & ROOF BEAM LOCATIONS
- (CG) SAWCUT OPENING THRU 228.6 (9") CONCRETE ROOF
- (CH) ENLARGE EXISTING HOLE FOR NEW PVC DUCT – SEE MECH. DRAWINGS

REMOVAL NOTES – PUMPING(P) STATION:

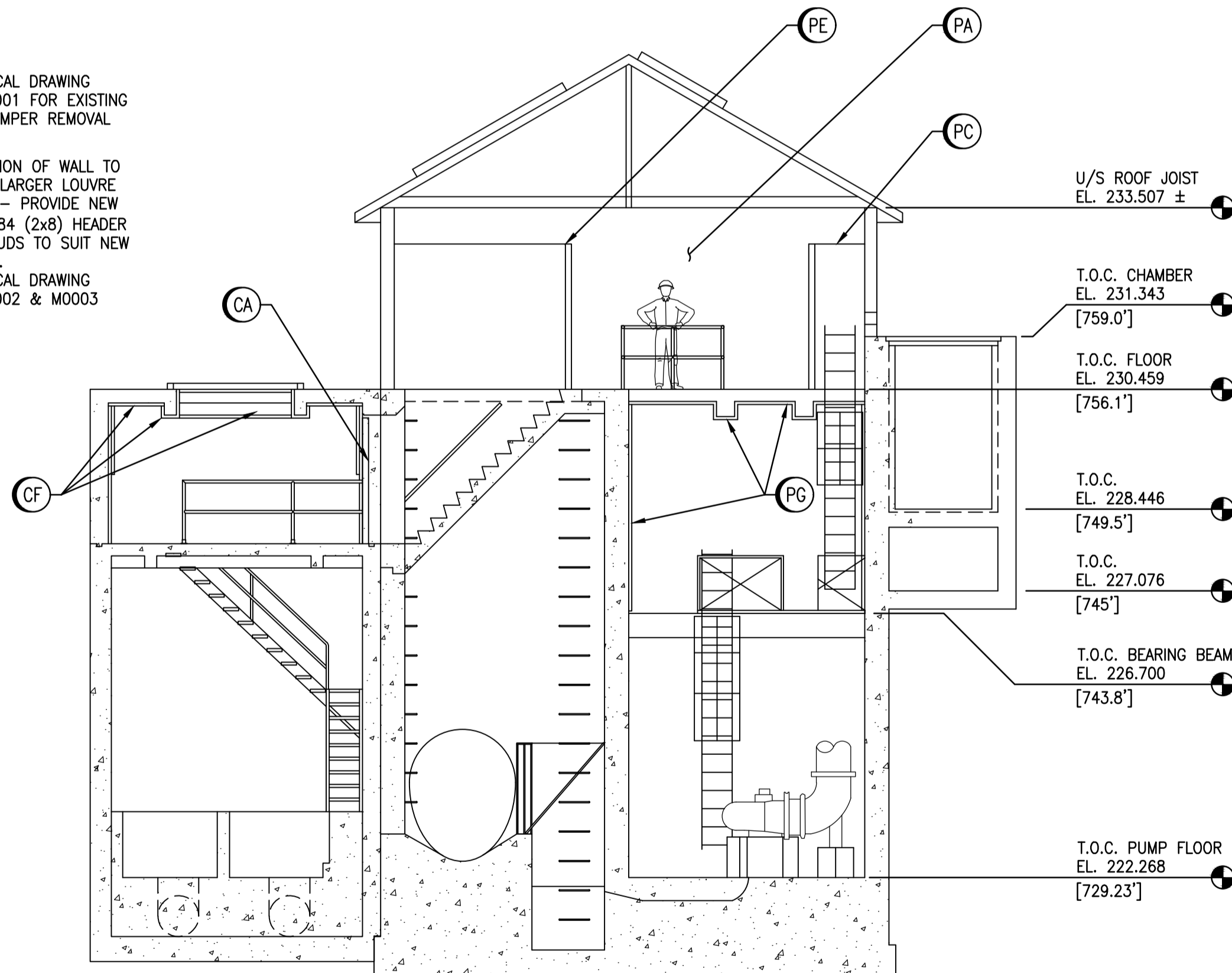
- (PA) REMOVE WOODEN FRAMED WALL STRUCTURE (TO BE CONFIRMED)
- (PB) REMOVE WET WELL LADDER ACCESS GRAB BAR
- (PC) REMOVE WOODEN FRAMED ENCLOSURE & ACCESS DOOR
- (PD) REMOVE PLYWOOD FLOORING SECTIONS OVER DRYWELL ACCESS OPENING
- (PE) REMOVE WOODEN FRAMED ENCLOSURE & ACCESS DOOR
- (PF) REMOVE PLYWOOD COVER OVER UPPER PORTION OF CONCRETE/BLOCK WALL
- (PG) REMOVE LAYER OF RIGID INSULATION AT U/S CEILING, ALL WALLS & ROOF BEAM LOCATIONS
- (PH) REMOVE AND REPLACE STUCCO PARGING ON DISCHARGE BOXES
- (PJ) REMOVE AND REPLACE DAMAGED SECTION OF WALL SIDING. MATCH EXISTING PROFILE AND COLOUR.



A ELEVATION
SCALE: 1 : 75

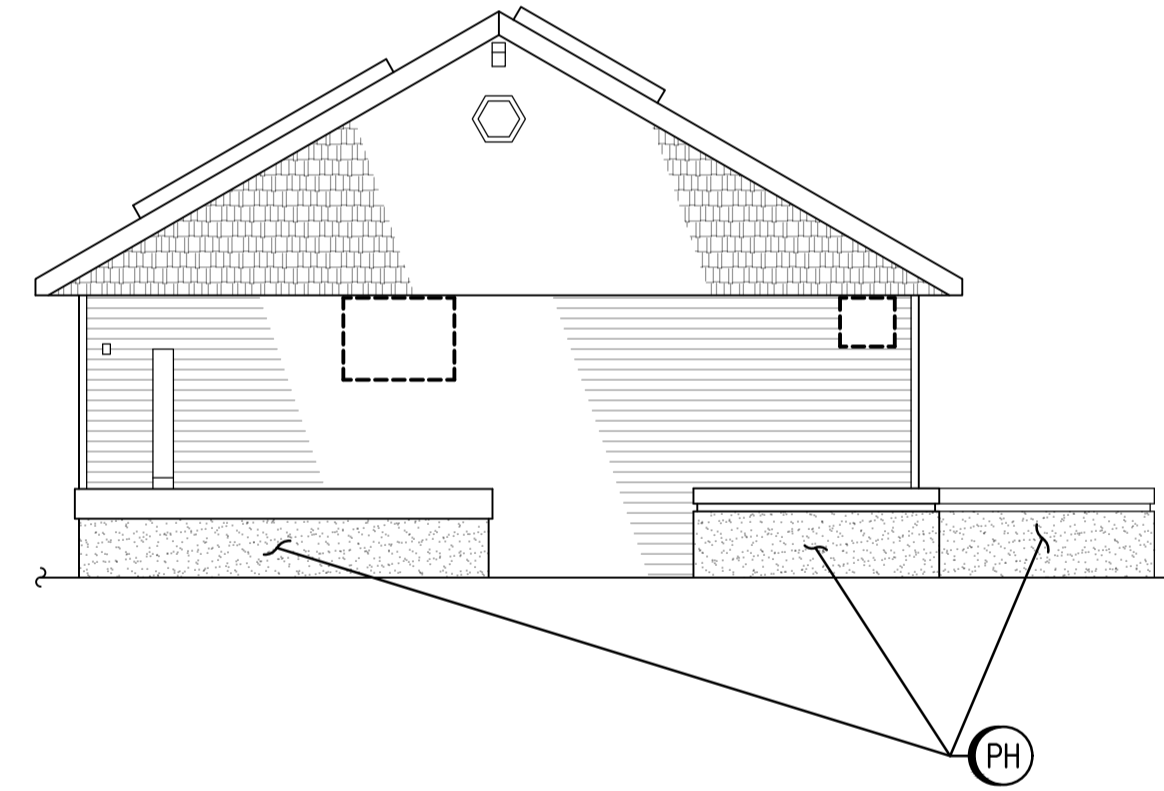
SEE MECHANICAL DRAWING 1-0173F-M0001 FOR EXISTING LOUVRE & DAMPER REMOVAL

REMOVE PORTION OF WALL TO ACCOMMODATE LARGER LOUVRE INSTALLATION – PROVIDE NEW DOUBLE 38x184 (2x8) HEADER AND JACK STUDS TO SUIT NEW OPENING SIZE. SEE MECHANICAL DRAWING 1-0173F-M0002 & M0003

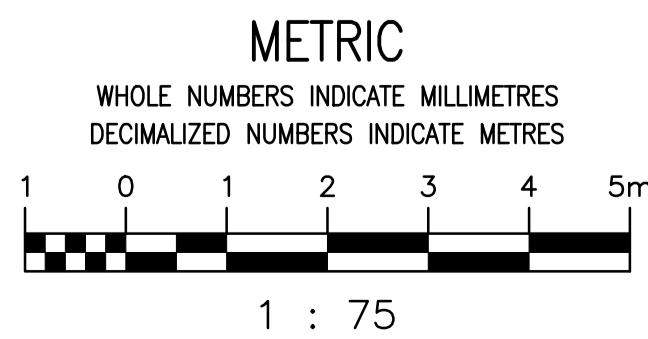


B ELEVATION
SCALE: 1 : 75

- U/S ROOF JOIST EL. 233.507 ±
- T.O.C. CHAMBER EL. 231.343 [759.0']
- T.O.C. FLOOR EL. 230.459 [756.1']
- T.O.C. EL. 228.446 [749.5']
- T.O.C. EL. 227.076 [745']
- T.O.C. BEARING BEAM EL. 226.700 [743.8']
- T.O.C. PUMP FLOOR EL. 222.268 [729.23']



C ELEVATION
SCALE: 1 : 75



LD-2960	POLSON FLOOD PUMPING STATION - CONCRETE SLAB REPAIR
LD-2644	POLSON FLOOD PUMPING STATION - ACCESS HATCH
LD-2643	POLSON FLOOD PUMPING STATION - FLAPGATE INSTALLATION
5-SD-4	POLSON AVENUE PUMPING STATION - SHEET 2
5-SD-4	POLSON AVENUE PUMPING STATION - SHEET 1
512	POLSON COMMINUTOR STATION - REINFORCING STEEL DETAILS
511	POLSON COMMINUTOR STATION - CONSTRUCTION DETAILS
DRAWING NUMBER	REFERENCE DRAWINGS

00	ISSUED FOR TENDER, BID OP 567-2020	2020/08/19	K.K.	B.C.
NO.	REVISIONS	DATE	DESIGN	CHECK

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

DESIGNED BY: K. KOTYK
DRAWN BY: B. DICKSON
SCALE: 1 : 75
DATE: 2020/04/27

CHECKED BY: B. CLEVEN
APPROVED BY: B. CLEVEN
ISSUED FOR CONSTRUCTION BY:
DATE:

CONSULTANT NO.:

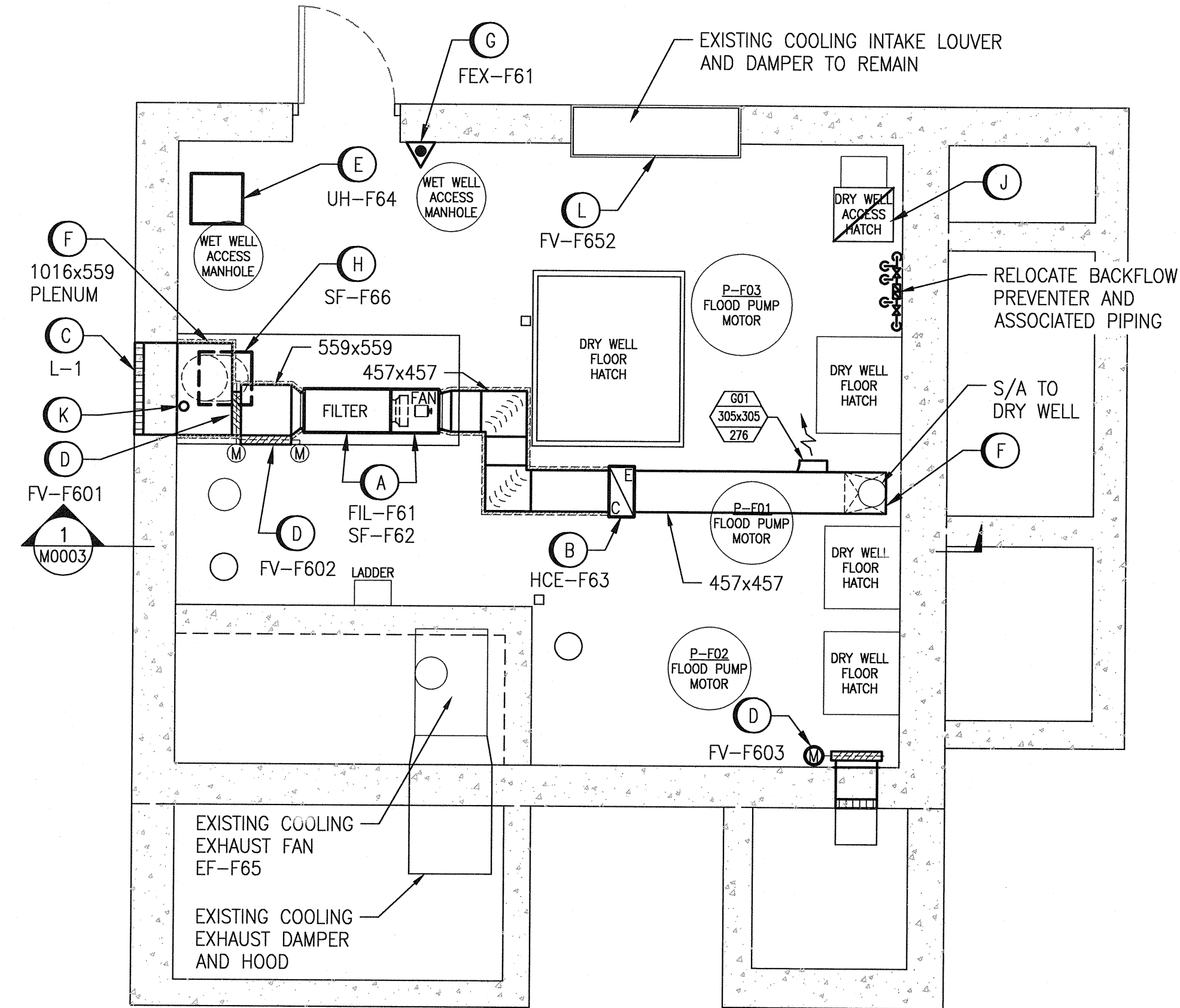
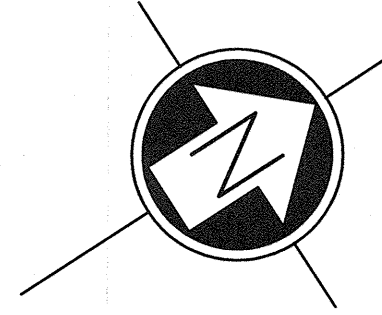
ENGINEER'S SEAL

PRELIMINARY
NOT TO BE
USED FOR
CONSTRUCTION

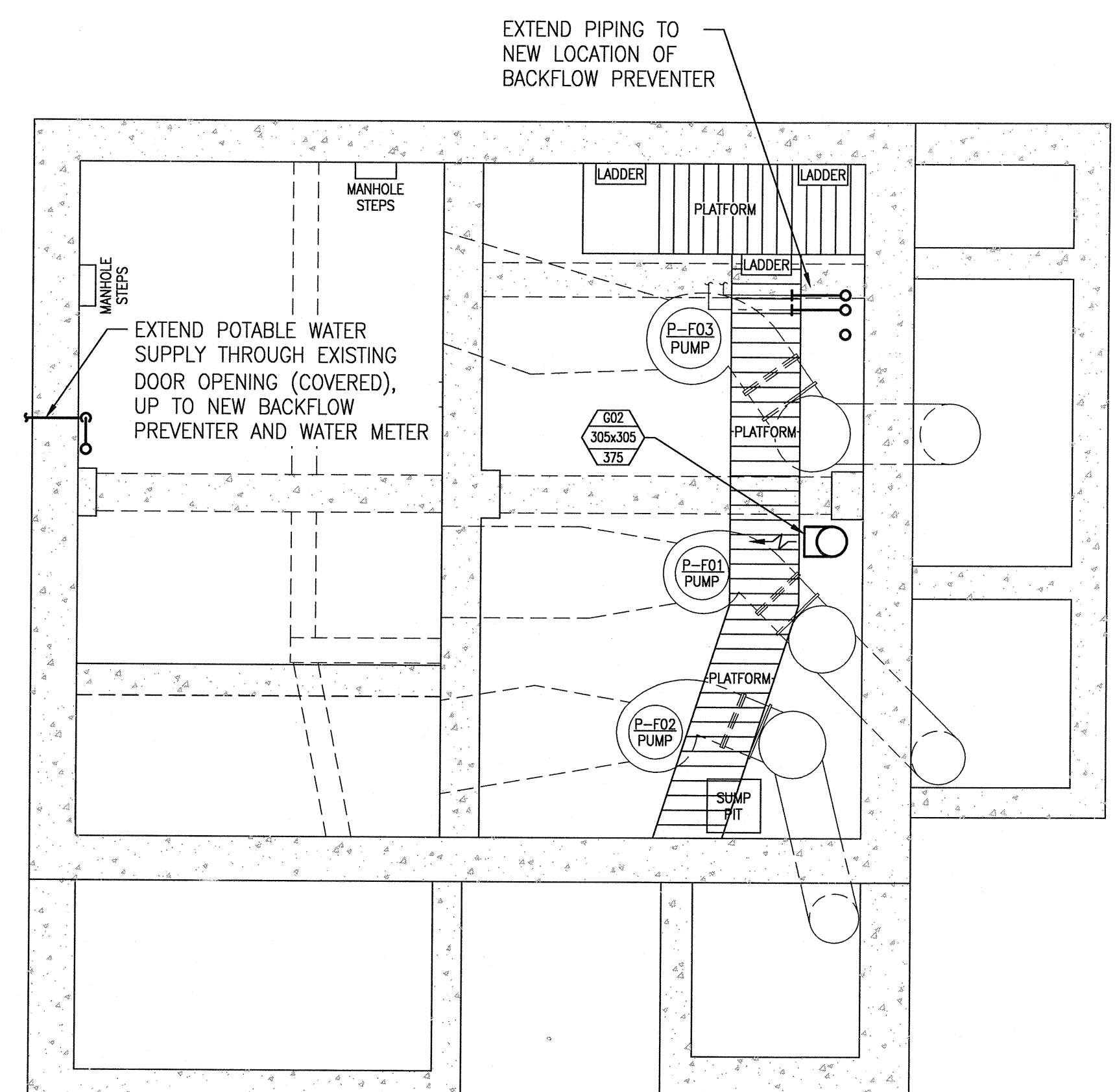
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

POLSON FLOOD PUMPING STATION
2020 UPGRADES
BUILDING REMOVALS
PLAN & ELEVATIONS

CITY DRAWING NUMBER: 1-0173F-B0001
SHEET: 001
REV: 00
SIZE: A1



MOTOR ROOM PLAN AT ELEV. 230.458
SCALE: 1 : 50



WELL PLAN AT ELEV. 228.447
SCALE: 1 : 50

LEGEND:

	EXISTING		MOTORIZED DAMPER
	NEW WORK		BACKDRAFT DAMPER
	EXISTING TO BE REMOVED		BALANCE DAMPER
	TAG		FIRE EXTINGUISHER
	WIDTH x HEIGHT (mm)		DUCT INSULATION
	FLOW (L/S)		

GENERAL NOTES

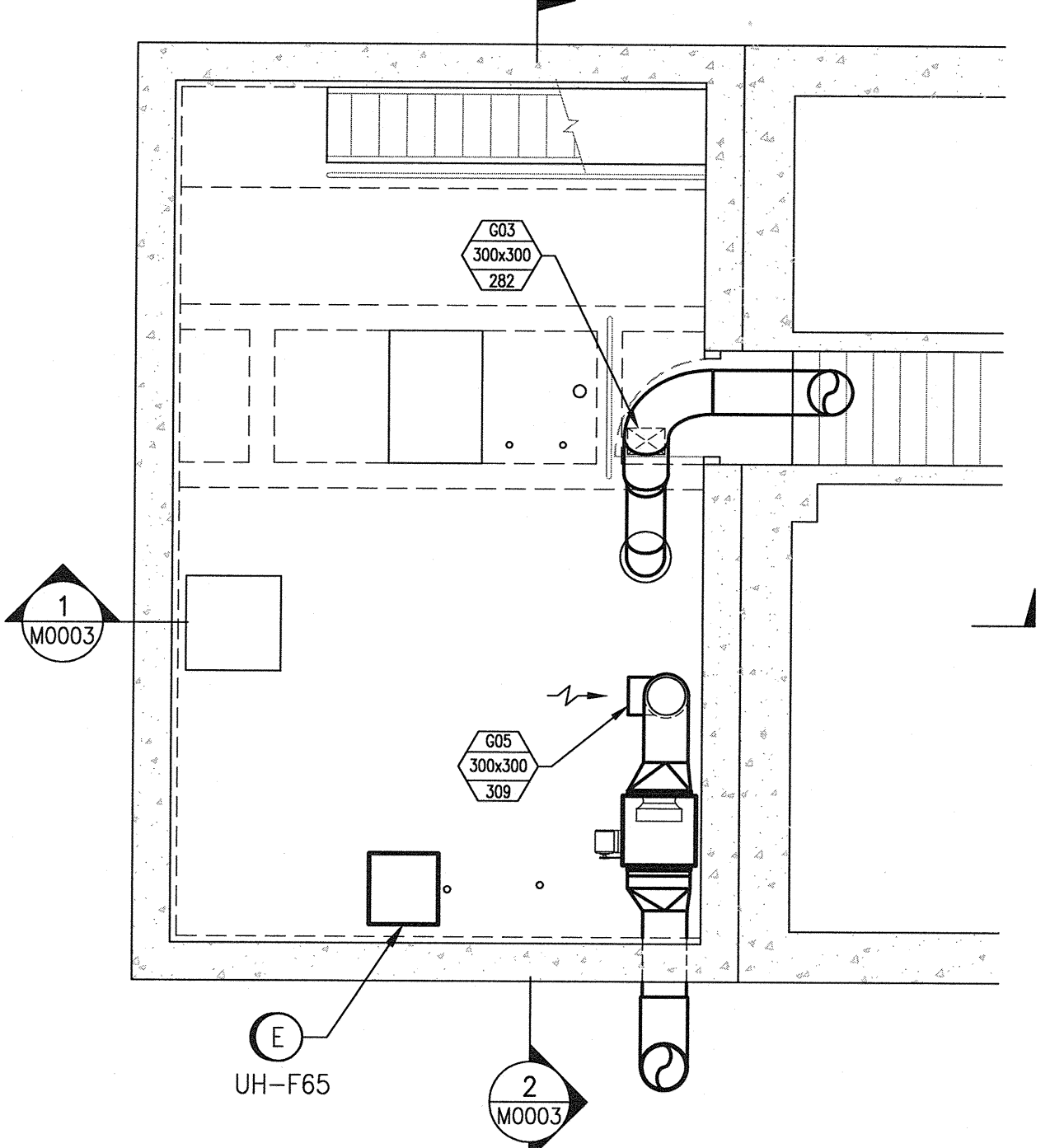
1. DRAWING INFORMATION BASED ON HISTORICAL DRAWING 5-SD-4 AND SITE INVESTIGATIONS.

- NEW WORK NOTES**
- (A) SUPPLY AND INSTALL NEW FAN AND FILTER.
 - (B) SUPPLY AND INSTALL NEW ELECTRIC HEATING COIL.
 - (C) SUPPLY AND INSTALL NEW LOUVER, C/W MOUNTING ANGLE FOR INTERIOR FASTENING.
 - (D) SUPPLY AND INSTALL DAMPERS. COORDINATE WITH AUTOMATION FOR INSTALLATION OF ACTUATORS.
 - (E) SUPPLY AND INSTALL NEW UNIT HEATERS.
 - (F) SUPPLY AND INSTALL NEW DUCTWORK. INSULATE AS SHOWN ON DRAWINGS.
 - (G) SUPPLY AND INSTALL NEW FIRE EXTINGUISHER.
 - (H) SUPPLY AND INSTALL NEW FAN.
 - (J) PROVIDE GRATING OVER DRY WELL FOR RETURN AIR.
 - (K) PROVIDE AND INSTALL NEW WATER PIPING FROM POTABLE WATER SUPPLY TO NEW BACKFLOW PREVENTER AND WATER METER. REFER TO DETAIL 1 ON DRAWING M0004.
 - (L) SUPPLY AND INSTALL NEW ACTUATOR ON EXISTING DAMPER.

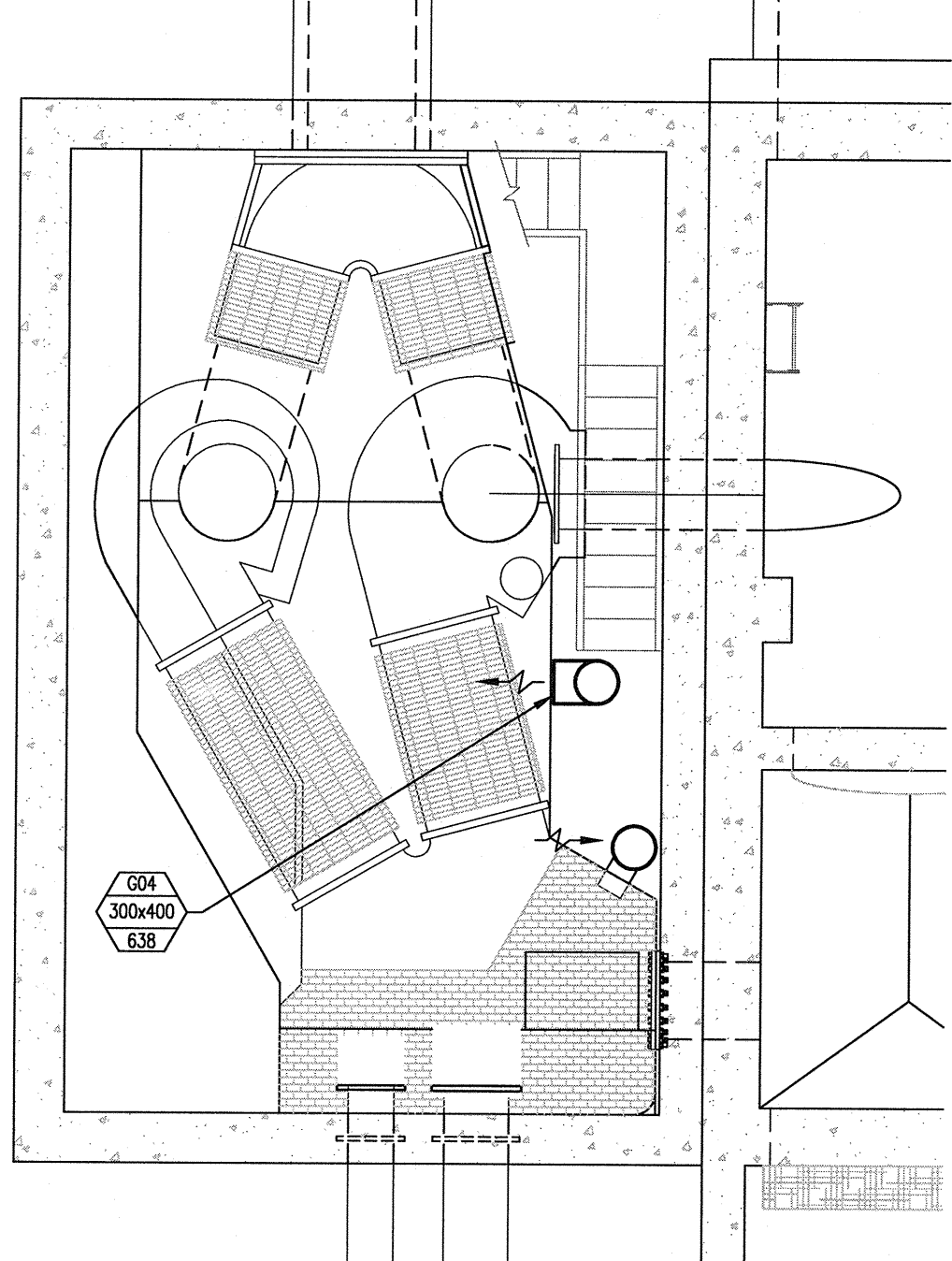
DESIGN CRITERIA:

THE BUILDING ENVIRONMENTAL CONTROL SYSTEMS SHOWN ON THESE DRAWINGS HAVE BEEN DESIGNED TO THE REQUIREMENTS OF THE MANITOBA BUILDING CODE. THE MAIN FLOOR IS VENTILATED AT A MINIMUM OF 6 AIR CHANGES PER HOUR CONTINUOUS. WHEN THE MAIN FLOOR IS UNOCCUPIED, THE SYSTEM WILL CONTINUE TO PROVIDE 6 AIR CHANGES PER HOUR WITH 75% RECIRCULATED AIR. THE COMMUNITOR CHAMBER IS VENTILATED AT A MINIMUM OF 15 AIR CHANGES PER HOUR CONTINUOUS WHEN OCCUPIED. MORE SPECIFICALLY AS FOLLOWS:

- OUTDOOR CONDITIONS OF -33°C IN WINTER.
- MAIN FLOOR INDOOR CONDITIONS OF 15°C IN WINTER.
- COMMUNITOR CHAMBER SUPPLY AIR AT MINIMUM OF 4°C IN WINTER.



COMMUNOTOR CHAMBER PLAN AT ELEV. 227.838
SCALE: 1 : 50



COMMUNOTOR CHAMBER PLAN AT ELEV. 222.500
SCALE: 1 : 50

LOUVER SCHEDULE

TYPE	SERVICE	SIZE		DESCRIPTION
		(Inches)	(mm)	
L-1	VENTILATION OUTDOOR AIR	40 x 20	1016 x 508	PRICE ZE439 c/w BIRD SCREEN

HEATING COIL SCHEDULE

TAG	SERVICE	AIRFLOW		EAT	LAT	CAPACITY	SIZE		VOLTS/PH	ELEMENT	NOTES		
		(cfm)	(L/s)				(°F)	(°C)				(Kw)	(in)
HCE-F63	COMM. CHAMBER	1,381	652	-40	-40	70	21	42.0	18 X 18	457 X 457	575/3	OPEN COIL	PRICE DFC100H

FAN SCHEDULE

TAG	SERVICE	AIRFLOW		ESP	Motor		VOLTS/PH	DESCRIPTION	NOTES	
		(cfm)	(L/s)		(in WC)	(Pa)				(hp)
SF-F62	STATION VENTILATION AIR	1,381	652	1.5	375	1	0.75	575/3	GREENHECK BSQ-120, C/W FILTER (Merv 8)	INLINE DISCHARGE CONFIGURATION
SF-F66	COMMUNOTOR CHAMBER	1,950	920	1.5	375	1.5	1	575/3	GREENHECK BSQ-140	INLINE DISCHARGE CONFIGURATION
EF-F67	COMMUNOTOR CHAMBER	2,143	1,011	1	300	1.5	1	575/3	GREENHECK BSQ-140, C/W EXP. PRF MOTOR	INLINE DISCHARGE CONFIGURATION

DAMPER SCHEDULE

TAG	SERVICE	AIRFLOW		SIZE		BLADE TYPE	MOUNT	ACTUATOR			PRODUCT DESCRIPTION
		(cfm)	(L/s)	(width x height)	(in)			(mm)	VOLTS	CONTROL SIGNAL	
FV-F601	VENTILATION OUTDOOR AIR	2,160	1019	18 X 18	457 X 457	PB	FLANGE TO DUCT	24 VAC	0-10V	CLOSED	TAMCO 9000 SC
FV-F602	VENTILATION MIXED AIR	2,160	1019	18 X 18	457 X 457	OB	FLANGE TO DUCT	24 VAC	0-10V	OPEN	TAMCO 9000 SC
FV-F603	VENTILATION EXHAUST AIR	2,160	1019	22 X 22	559 X 559	PB	FLANGE TO DUCT	24 VAC	0-10V	CLOSED	TAMCO 9000 SC
FV-F652	COOLING AIR INTAKE	4,200	1982	24 x 24	610 x 610	PB	REAR FLANGE	120 VAC	ON/OFF	CLOSED	EXISTING DAMPER TO REMAIN, NEW ACTUATOR

UNIT HEATER SCHEDULE

TAG	SERVICE	AIRFLOW		CAPACITY	VOLTS/PH	NOTES
		(cfm)	(L/s)			
UH-F64	MAIN FLOOR	700	328	15	575/3	Outlet OASU15036
UH-F68	UPPER COMM. CHAMBER	700	328	15	575/3	Outlet OHX015036

FIRE EXTINGUISHER SCHEDULE

TAG	RATING/WEIGHT		TYPE	COMMENTS
	(MINIMUM)			
FEX-F61	2A, 5BC	4.5 KG (10 LB)	DRY CHEMICAL	NEW

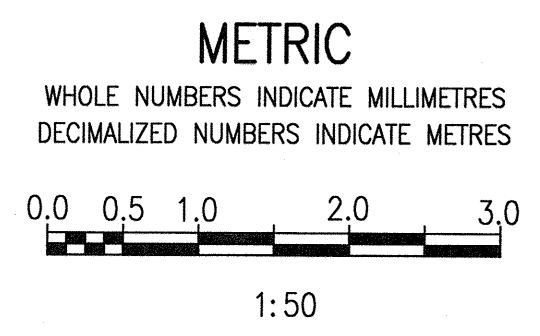
VENTILATION SCHEDULE

AREA	VOLUME (M ³)	MIN. AIR CHANGES PER HOUR	MIN. AIRFLOW (L/s)
MAIN FLOOR	166	6	276
DRY WELL	225	6	375
UPPER COMM. CHAMBER	66	15	281
LOWER COMM. CHAMBER	153	15	638
TOTAL	610		1570

GRILLE SCHEDULE

TAG	MAKE & MODEL
G01	PRICE 510/D/FL/A
G02	PRICE 510/D/FL/A
G03	PRICE 510/D/FL/A
G04	PRICE 510/D/FL/A
G05	PRICE 510/D/FL/A

1-0173F-P0001	PROCESS FLOW DIAGRAM
1-0173F-M0003	MECHANICAL NEW WORK - SECTIONS
1-0173F-M0001	DEMOLITION - FLOOR PLANS
DRAWING NUMBER	REFERENCE DRAWINGS

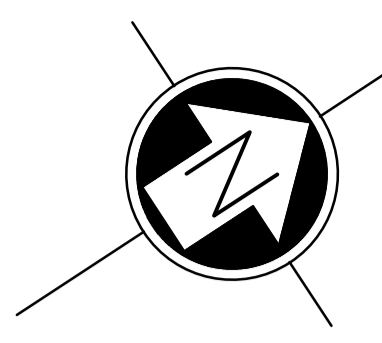


<p>SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080</p>		<p>ENGINEER'S SEAL</p>	
DESIGNED BY:	H. OJO	CHECKED BY:	B. CLEVEN
DRAWN BY:	K. MOHAMMED	APPROVED BY:	B. CLEVEN
SCALE:	1 : 50	ISSUED FOR CONSTRUCTION BY:	K. JUREK
DATE:	2020/04/06	DATE:	2020/08/19
CONSULTANT NO.:			
NO.	ISSUED FOR CONSTRUCTION	DATE	2020/08/19
	REVISIONS	DATE	DESIGN CHECK

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

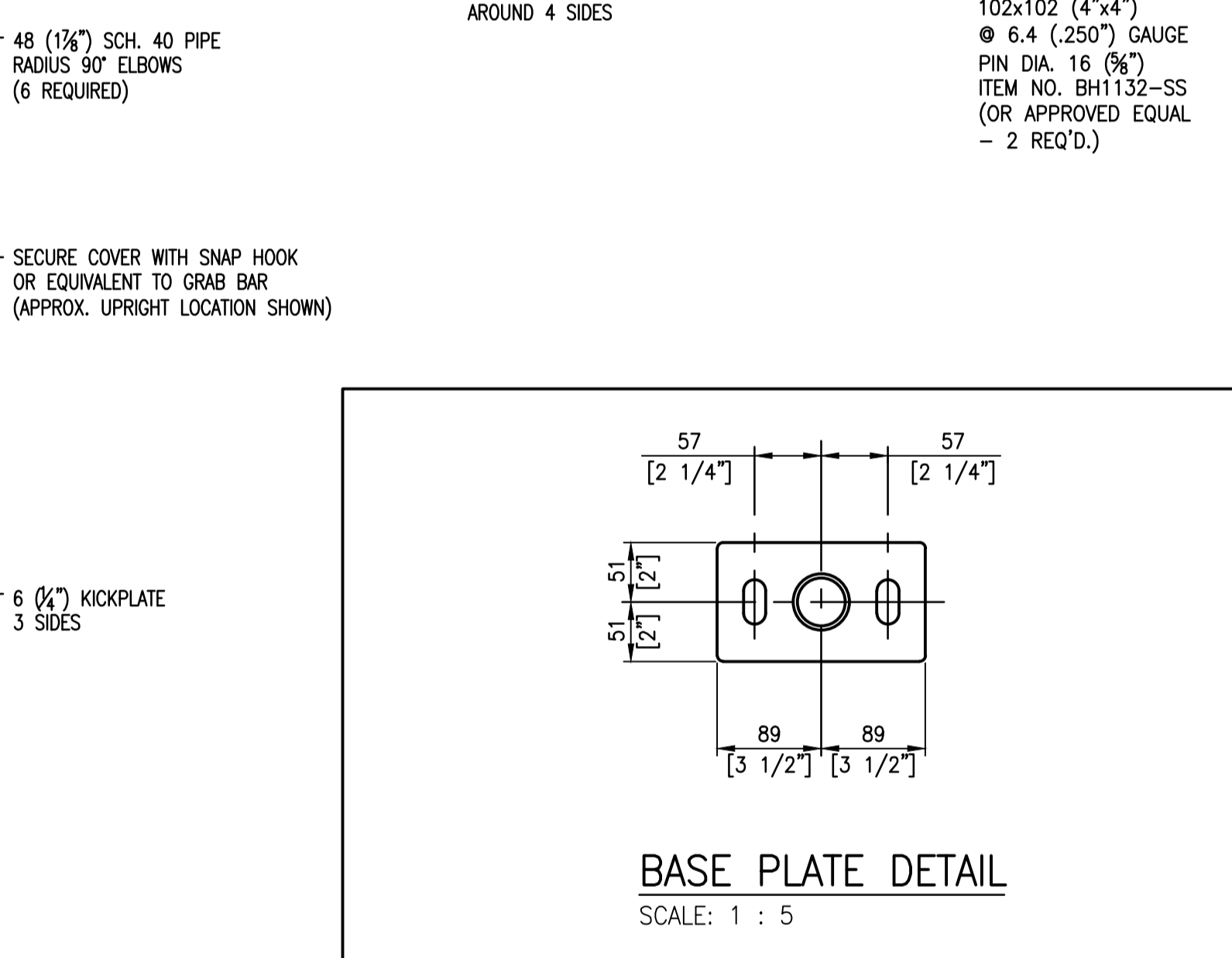
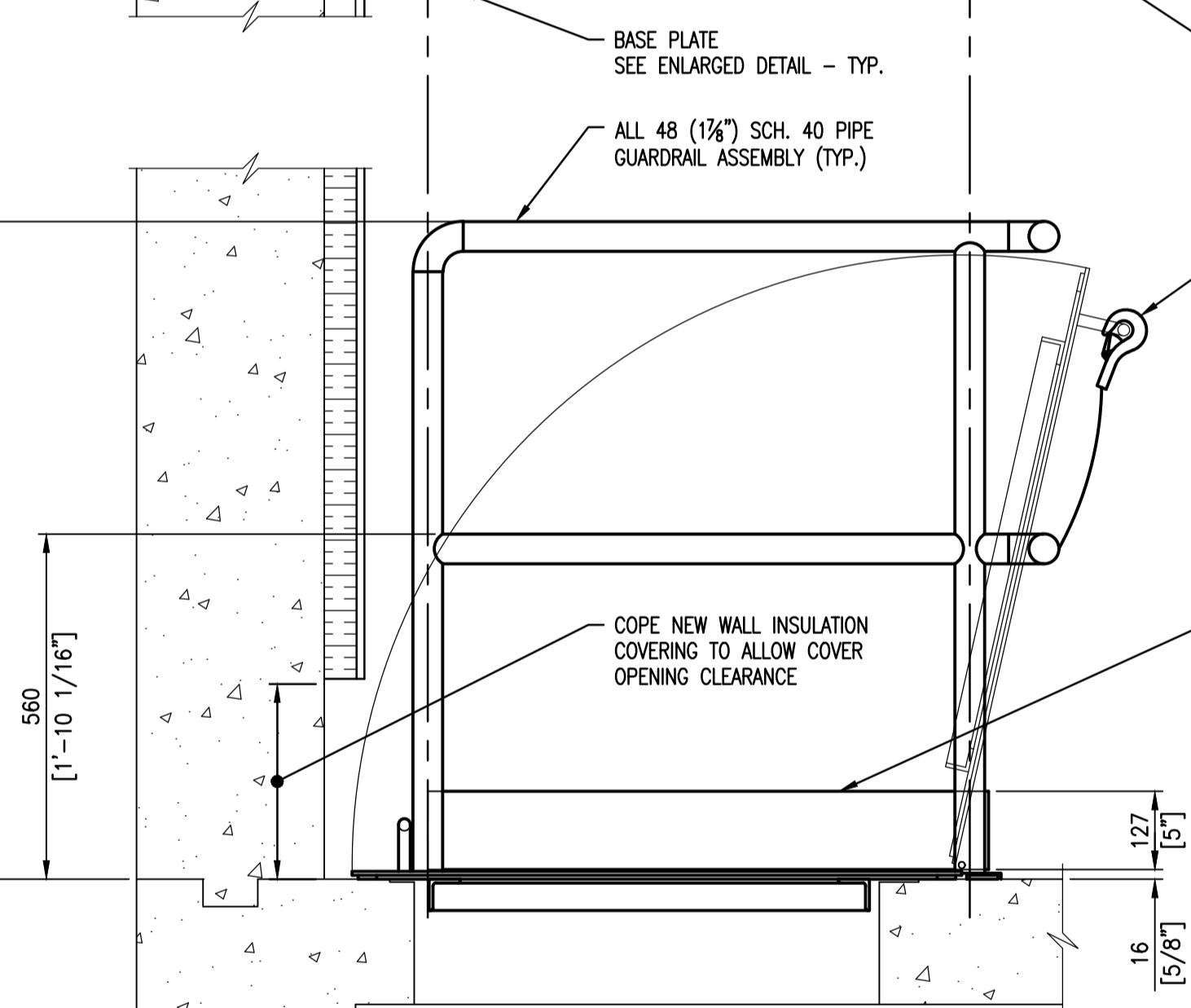
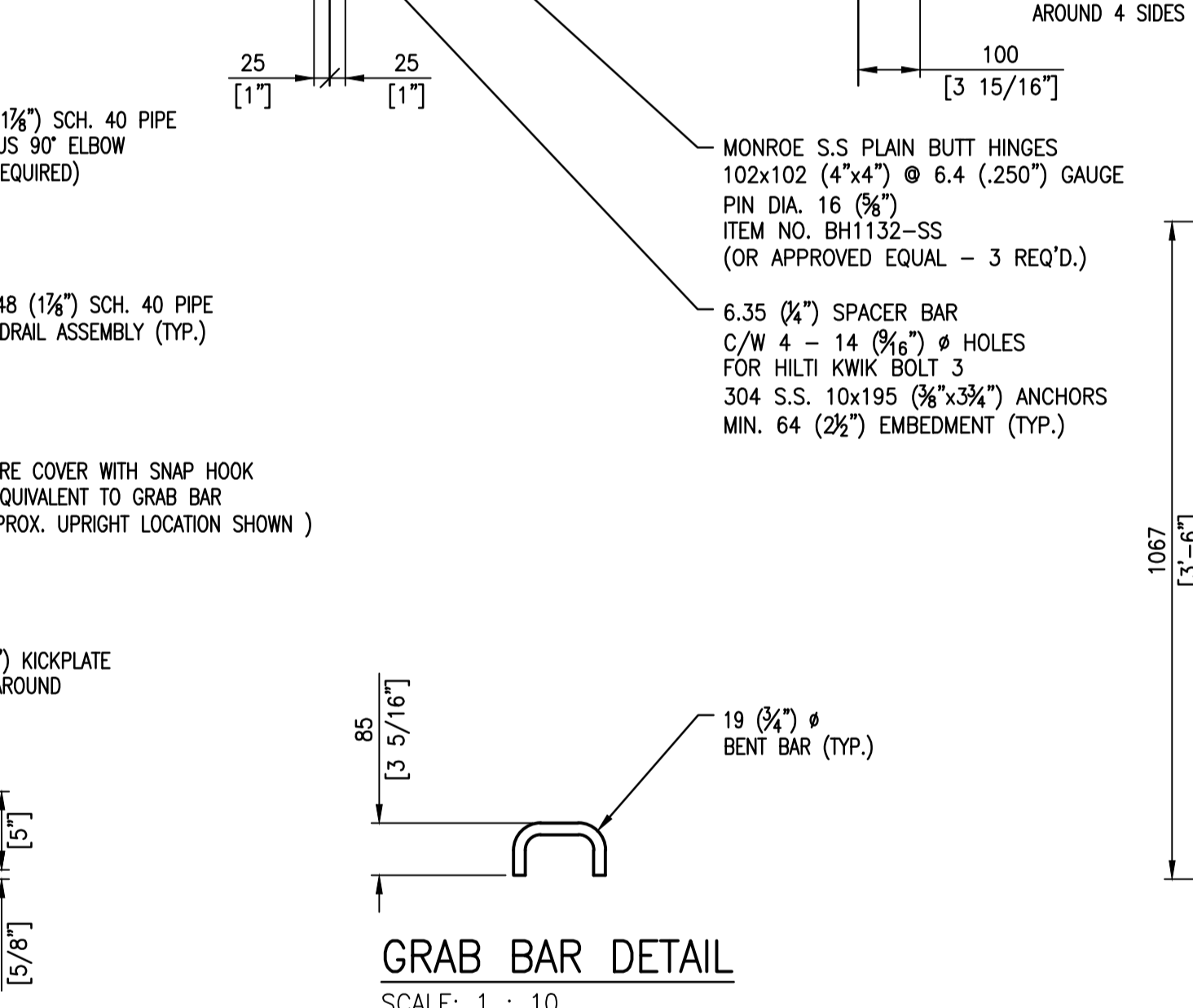
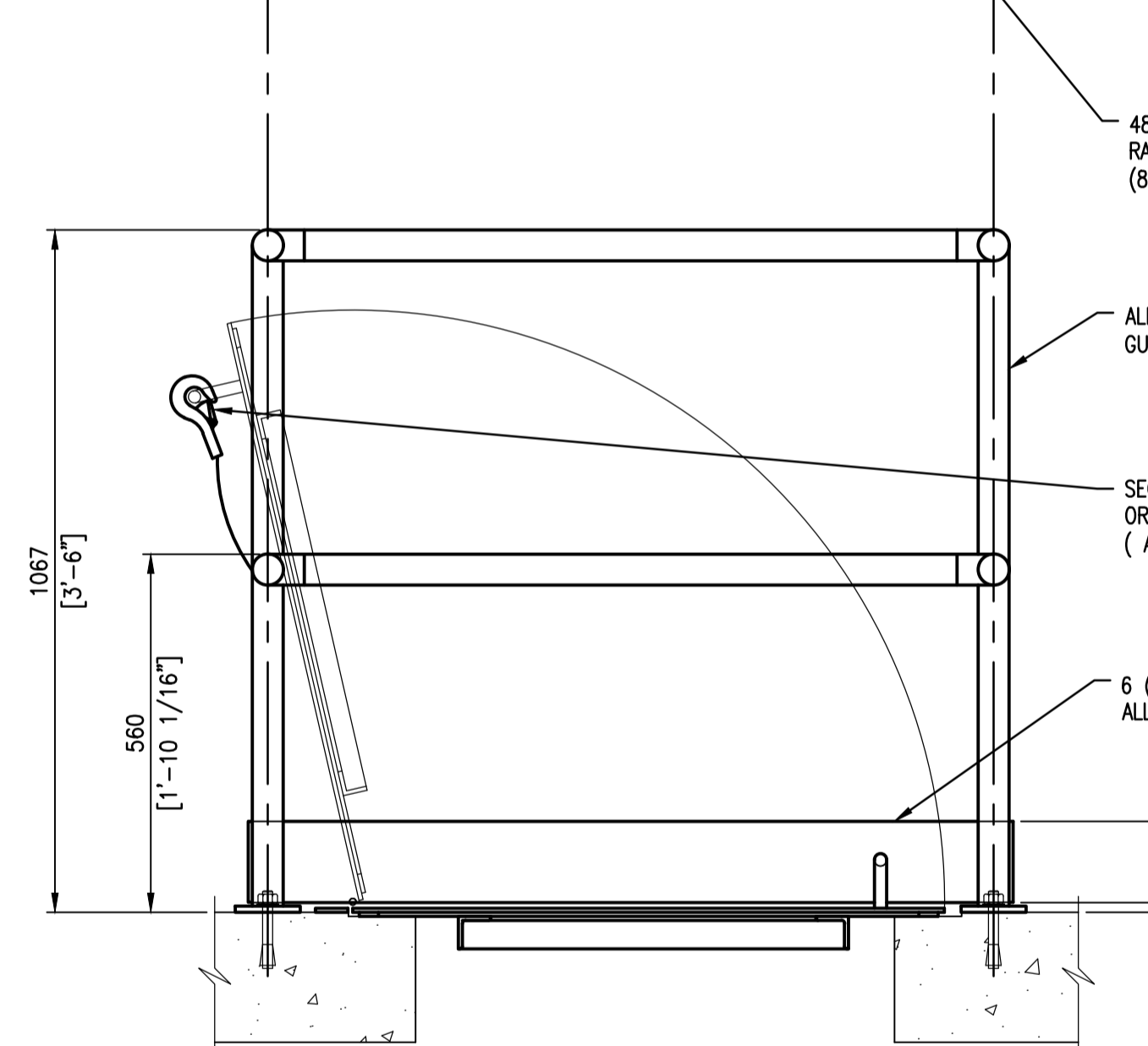
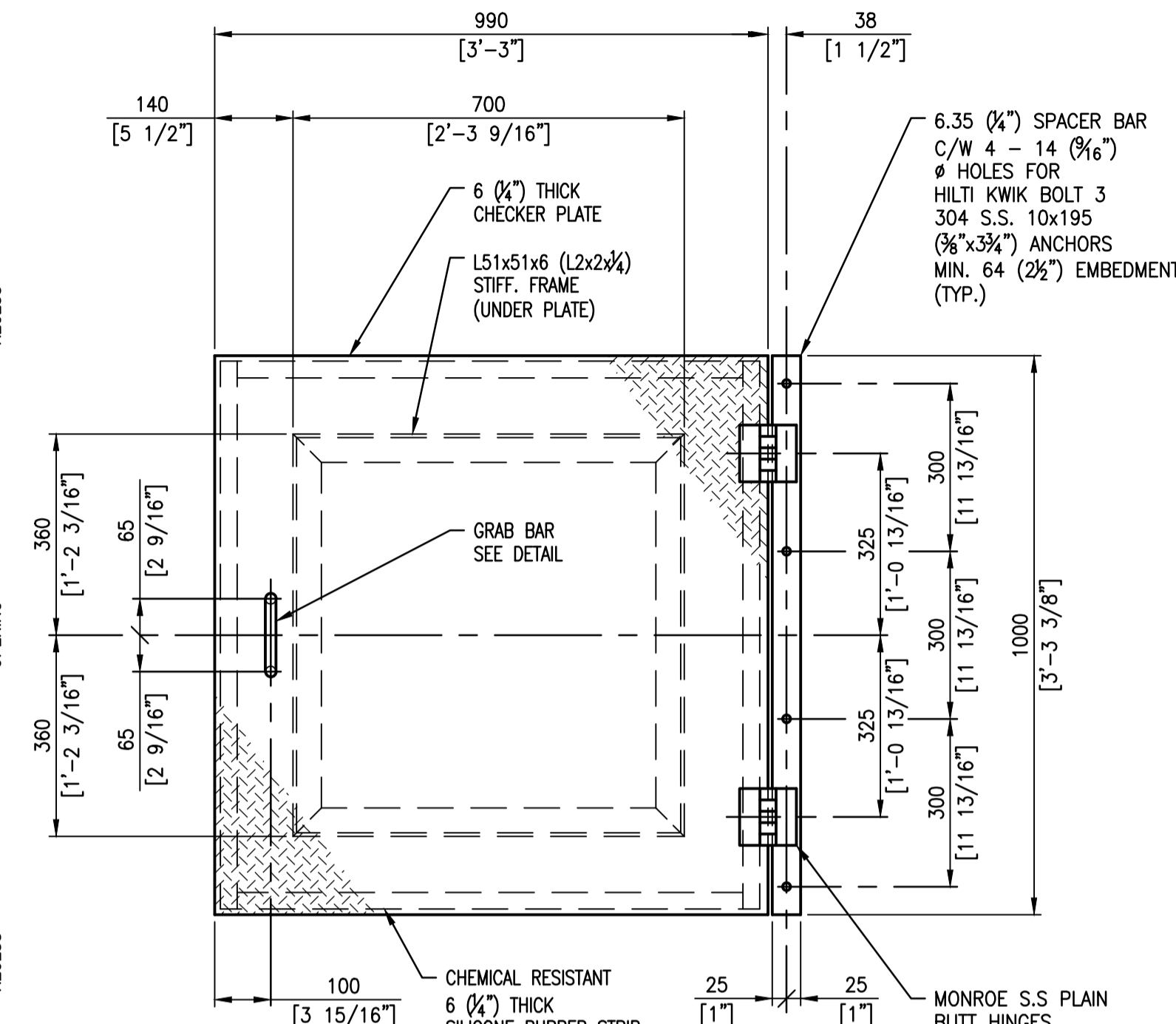
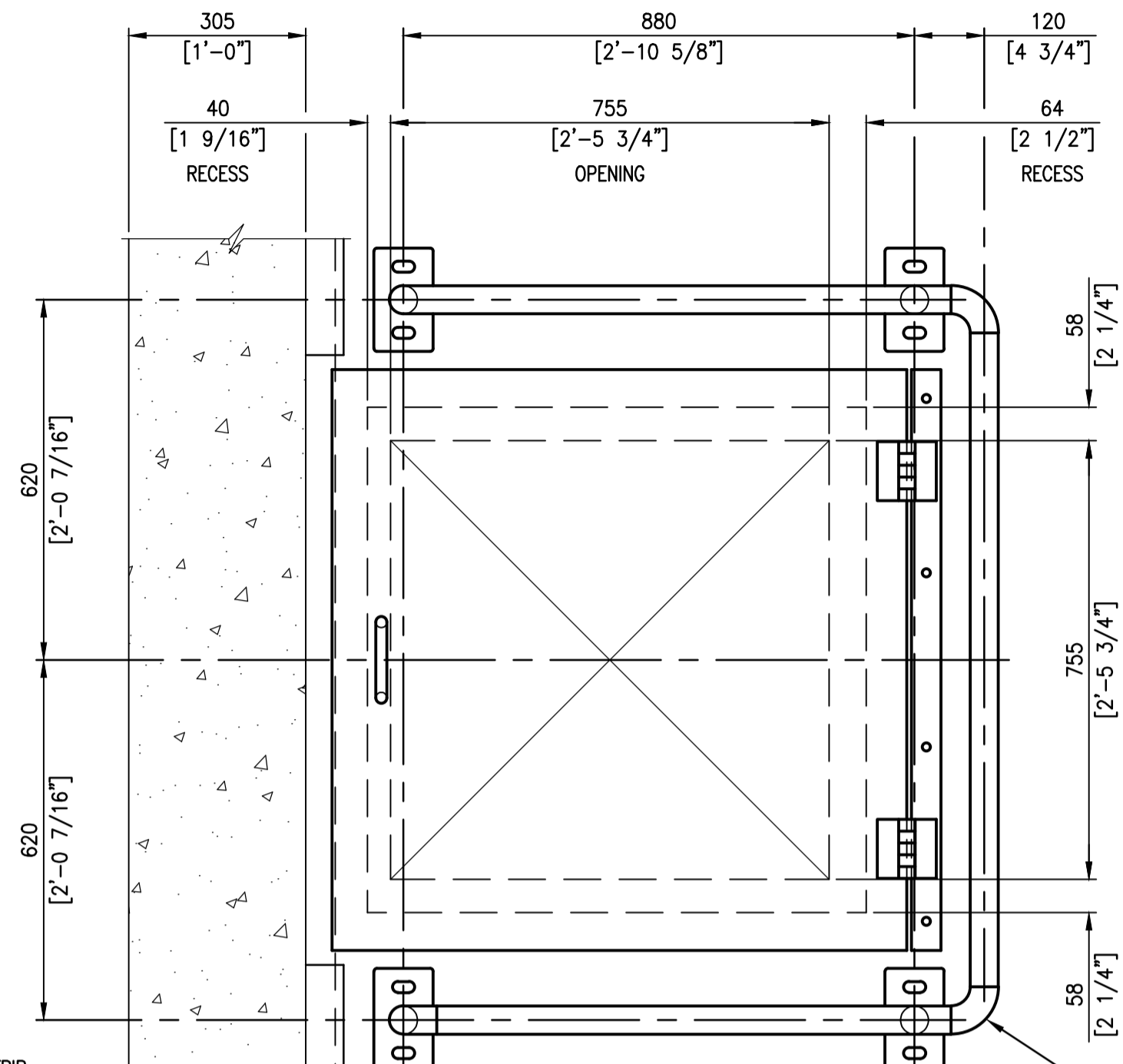
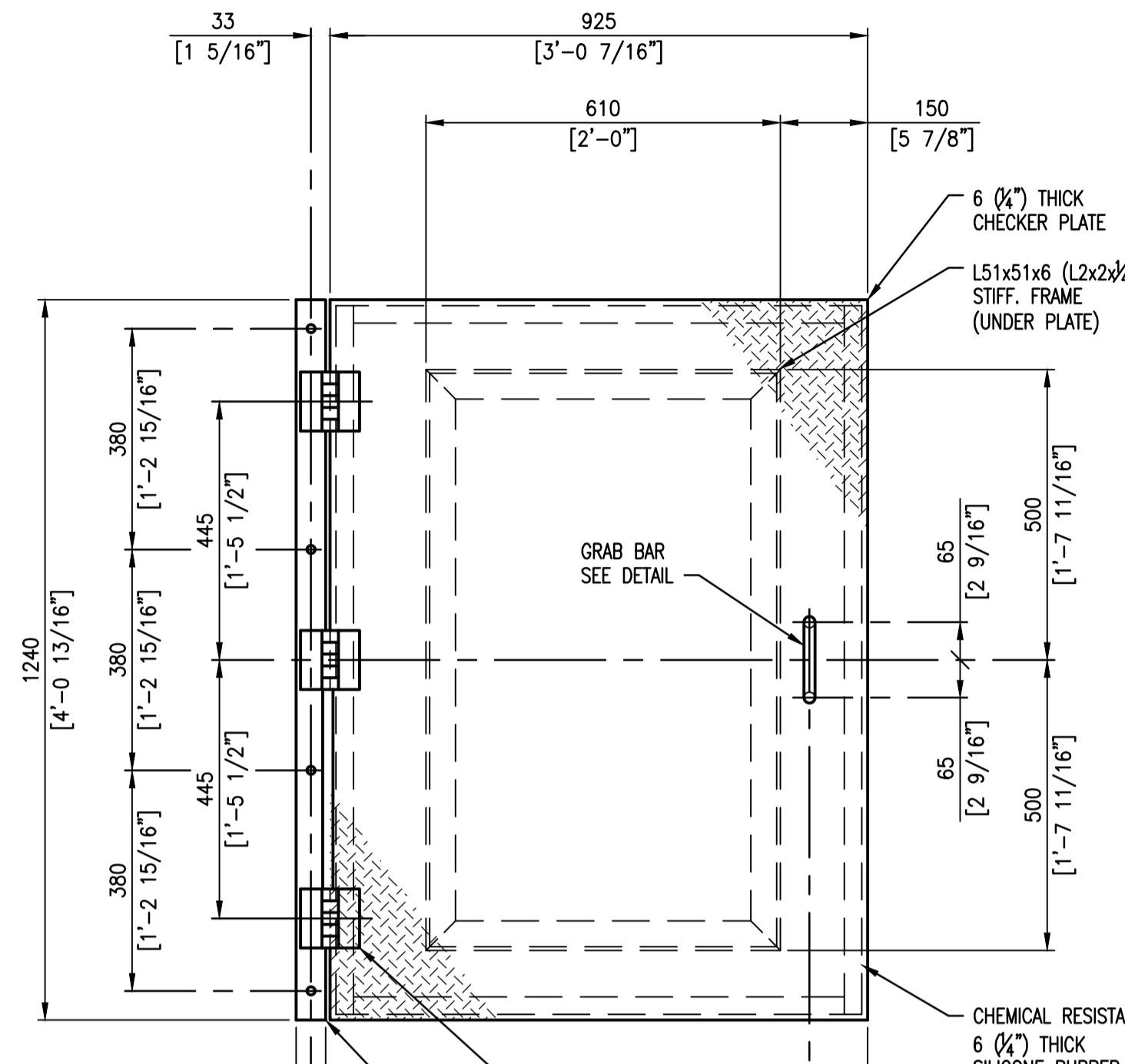
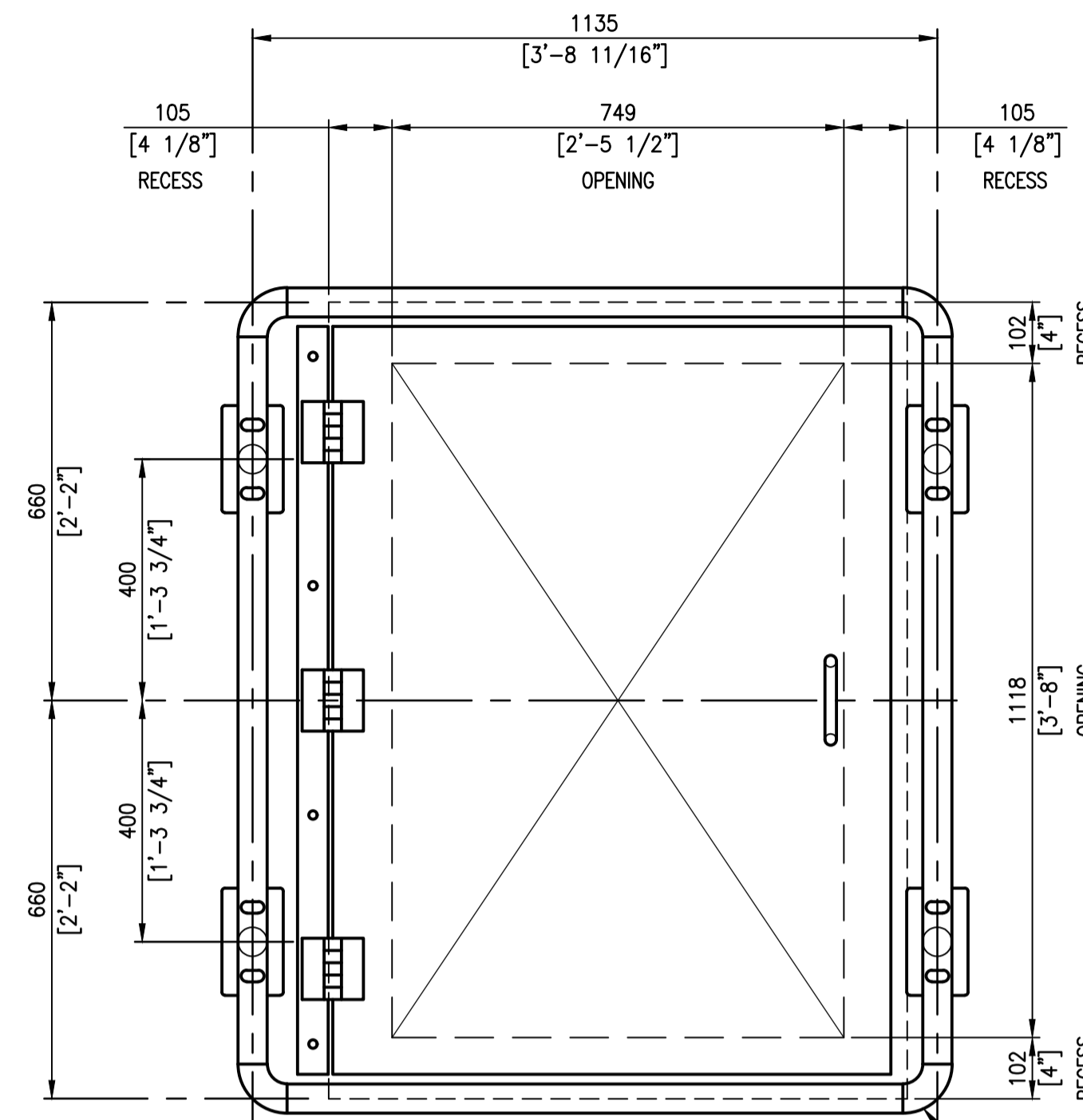
POLSON FLOOD PUMPING STATION
2020 UPDATES
MECHANICAL PLAN LAYOUT
MOTOR ROOM, WELL PLAN AND COMMUNOTOR CHAMBER AREA
NEW WORK

CITY DRAWING NUMBER: 1-0173F-M0002
SHEET: 001
REV.: 00
SIZE: A1



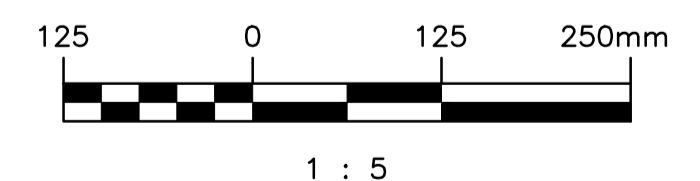
NOTES:

- SEE DRAWING 1-0173F-S0001 FOR GENERAL NOTES.
- SEE DRAWING 1-0173F-S0002 FOR STRUCTURAL NOTES.



ALL 10mm (3/8") PLATE C/W 5 RAD. ROUNDED CORNERS
 ALL 19mm x 38mm (3/4"x1 1/2") SLOTTED HOLES FOR 16 (3/8") HILTI KB3 304 S.S. ANCHORS (TYP.)
 MIN. CONC. EMBEDMENT - 76mm (3")

NOTE - LOCATED HANDRAIL MOUNTING PLATES AS REQUIRED TO CLEAR EXIST. CONCRETE REINFORCING (TYP.)

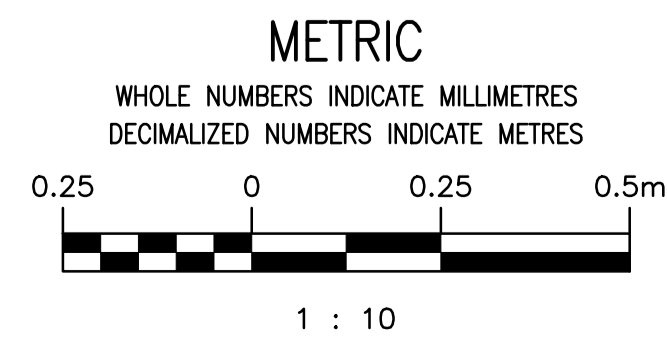


3 HATCHWAY COVER DETAIL
 S0005
 SCALE: 1 : 10
 SOURCE DRAWING 1-0173F-S0001

NOTE: TAKE CARE TO NOT DAMAGE EXIST. CONCRETE REINFORCING WHEN INSTALLING GUARDRAIL SUPPORTS. REFER TO NOTES ON DRAWING 1-0173F-S0002 FOR INSTALLATION PROCEDURE.

ALL STRUCTURAL 304 S.S. SHAPES AND PLATES CONFORM TO AISA 430 AND ASTM A276.

4 OPENING COVER DETAIL
 S0005
 SCALE: 1 : 10
 SOURCE DRAWING 1-0173F-S0001



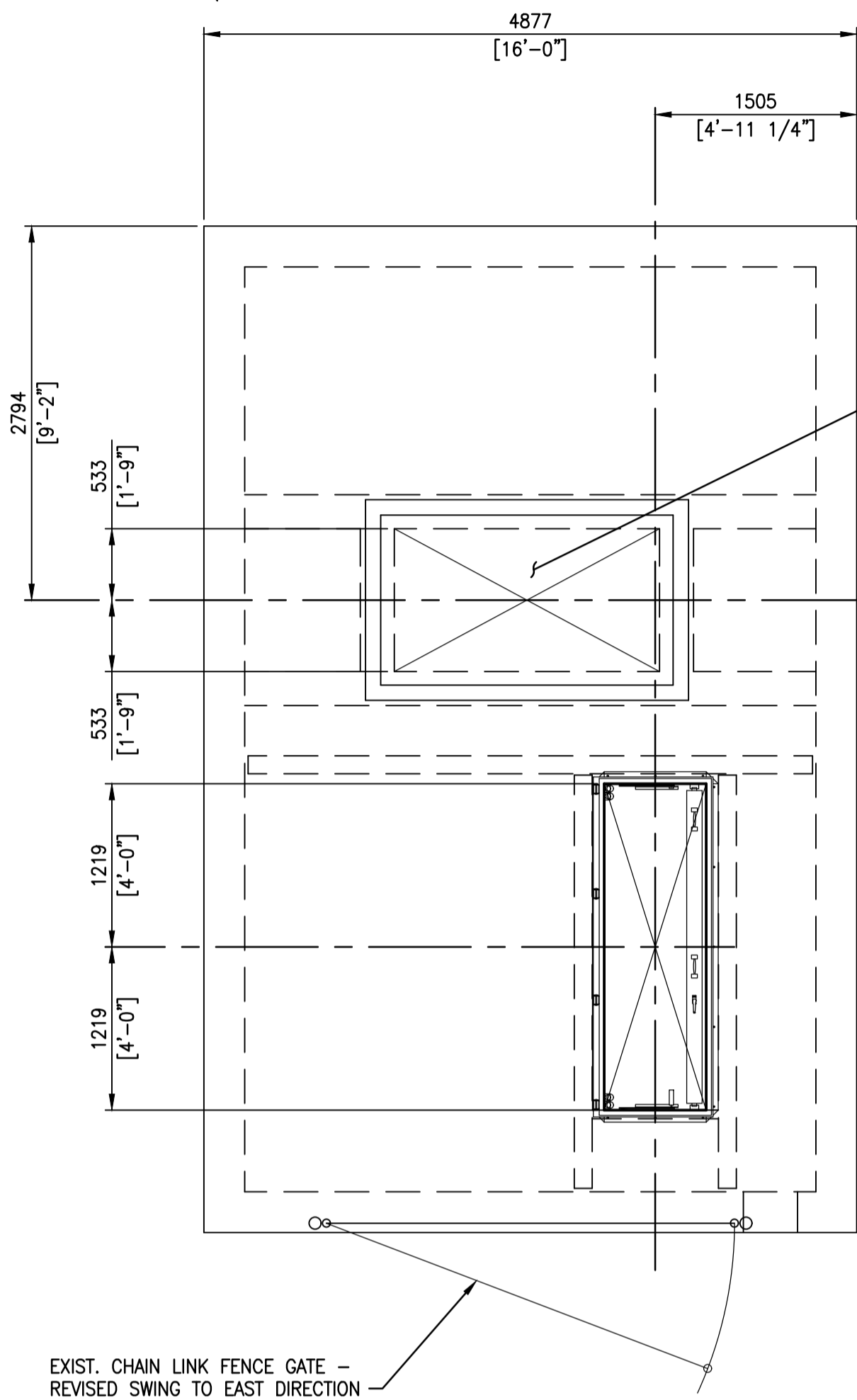
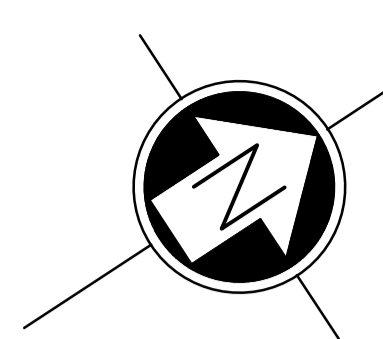
LD-2960	POLSON FLOOD PUMPING STATION - CONCRETE SLAB REPAIR
LD-2644	POLSON FLOOD PUMPING STATION - ACCESS HATCH
LD-2643	POLSON FLOOD PUMPING STATION - FLAPGATE INSTALLATION
5-SD-4	POLSON AVENUE PUMPING STATION - SHEET 2
5-SD-4	POLSON AVENUE PUMPING STATION - SHEET 1
512	POLSON COMMUNOTOR STATION - REINFORCING STEEL DETAILS
511	POLSON COMMUNOTOR STATION - CONSTRUCTION DETAILS
DRAWING NUMBER	REFERENCE DRAWINGS

00	ISSUED FOR TENDER, BID OP 567-2020	2020/08/19	K.K.	B.C.
NO.	REVISIONS	DATE	DESIGN	CHECK

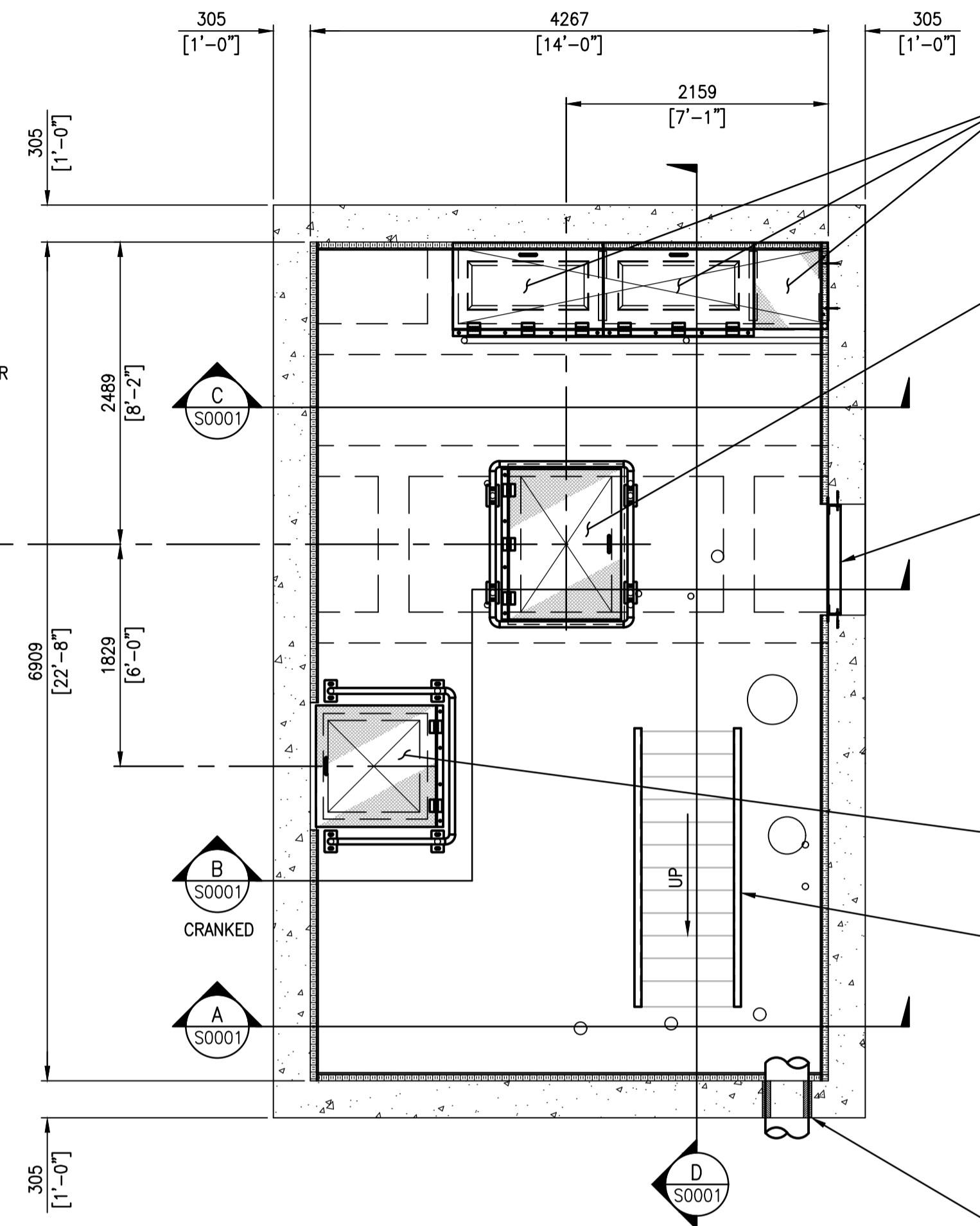
SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-796-8080	
DESIGNED BY: K. KOTYK	CHECKED BY: B. CLEVEN
DRAWN BY: B. DICKSON	APPROVED BY: B. CLEVEN
SCALE: AS SHOWN	ISSUED FOR CONSTRUCTION BY: DATE:
DATE: 2020/05/25	DATE:
CONSULTANT NO.:	

ENGINEER'S SEAL
PRELIMINARY
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 CONSTRUCTION

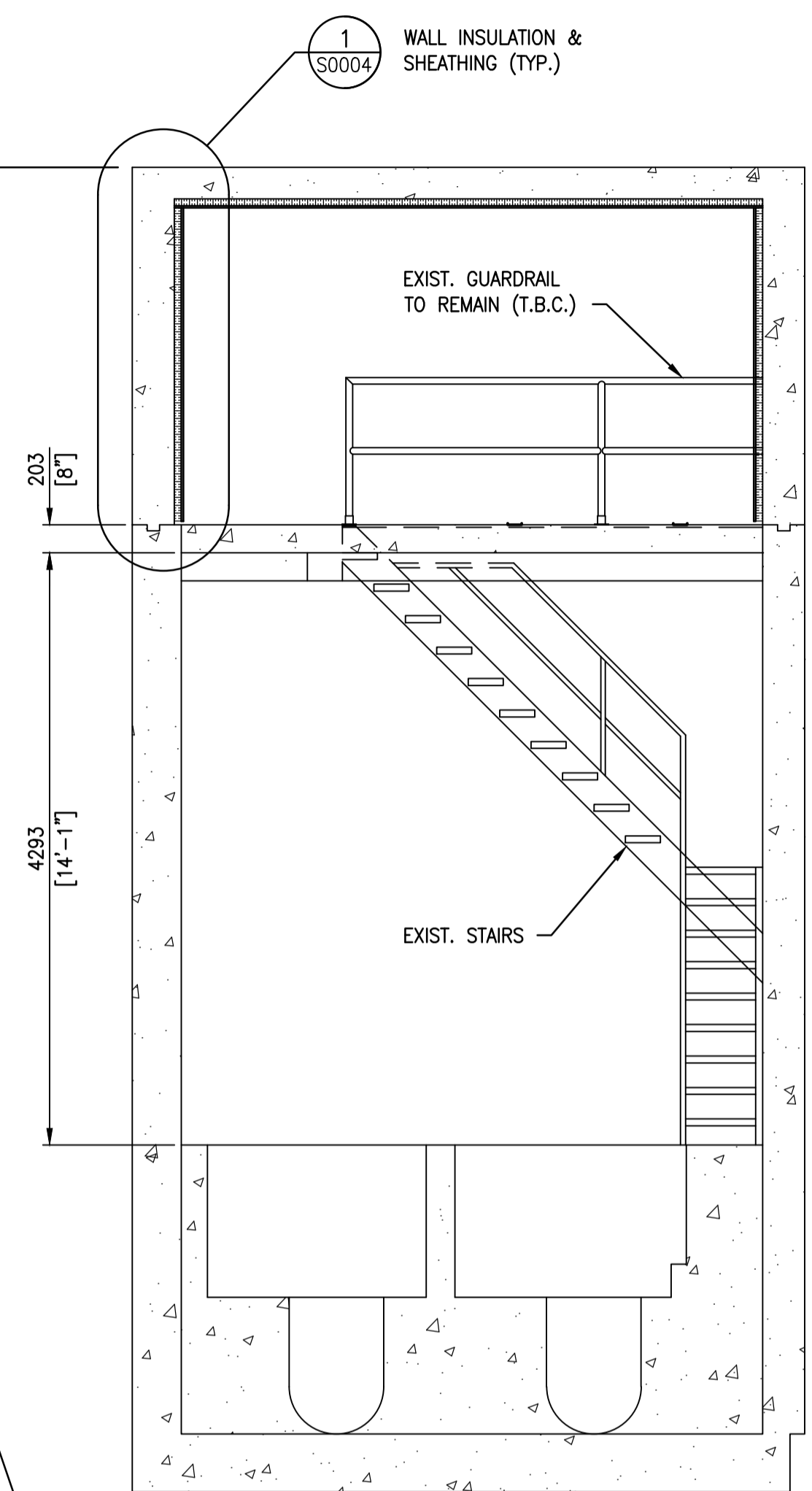
THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT	
POLSON FLOOD PUMPING STATION 2020 UPGRADES STRUCTURAL MODIFICATIONS - COMMUNOTOR CHAMBER HATCH COVER DETAILS	
CITY DRAWING NUMBER 1-0173F-S0005	SHEET REV. SIZE 001 00 A1



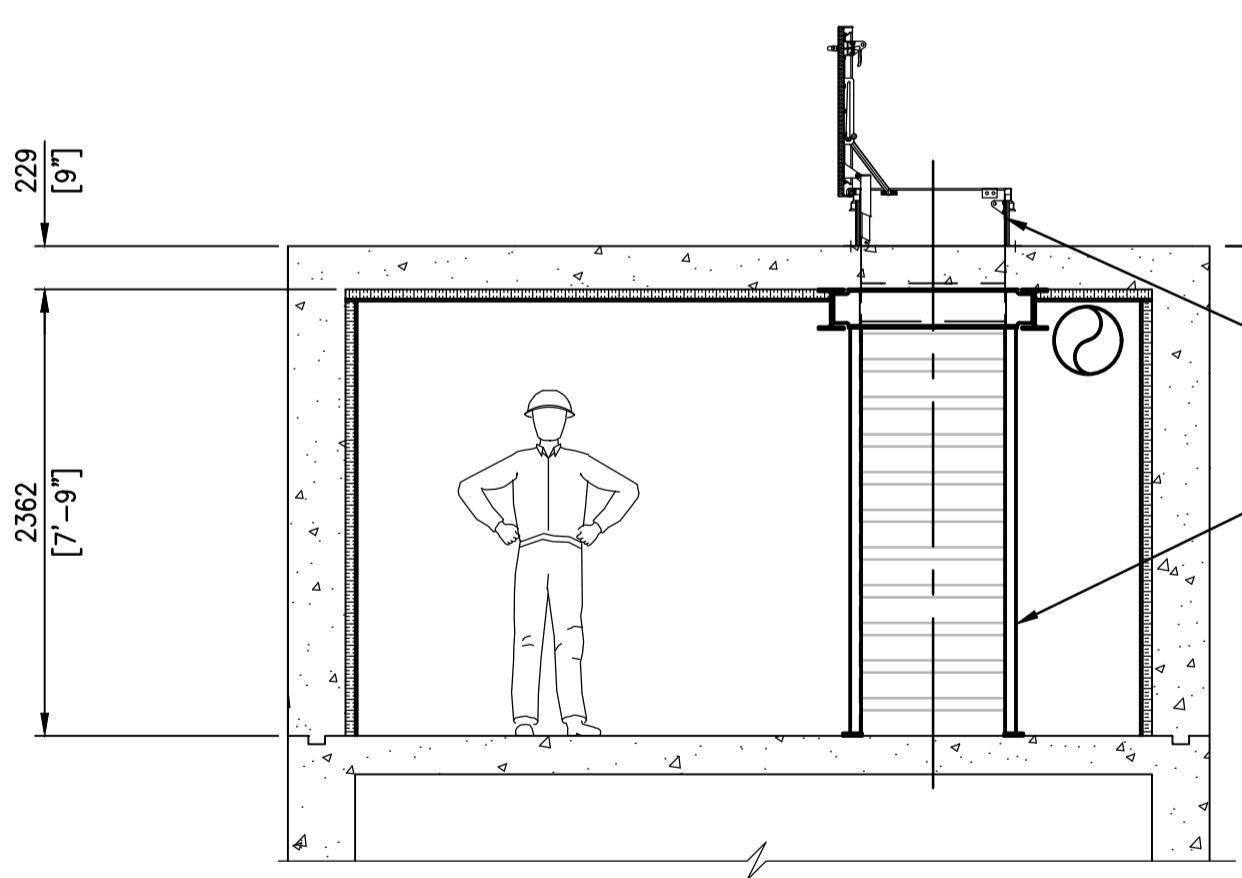
COMMINUTOR CHAMBER ROOF PLAN @ T.O.C. 230.459
SCALE: 1 : 40



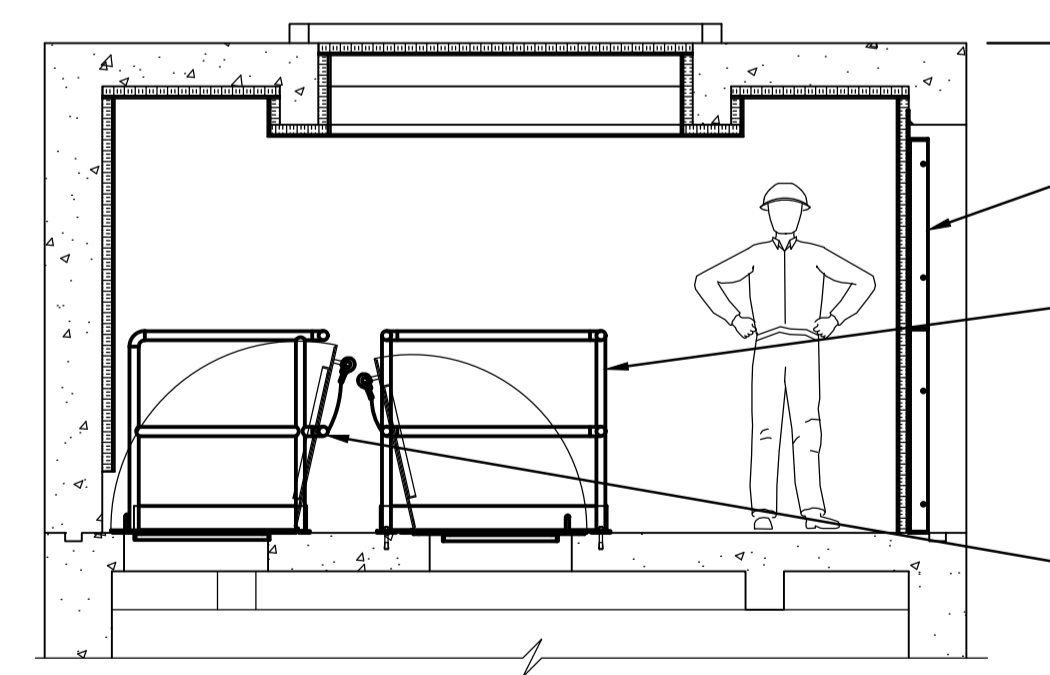
COMMINUTOR CHAMBER FLOOR PLAN @ T.O.C. 227.838
SCALE: 1 : 40



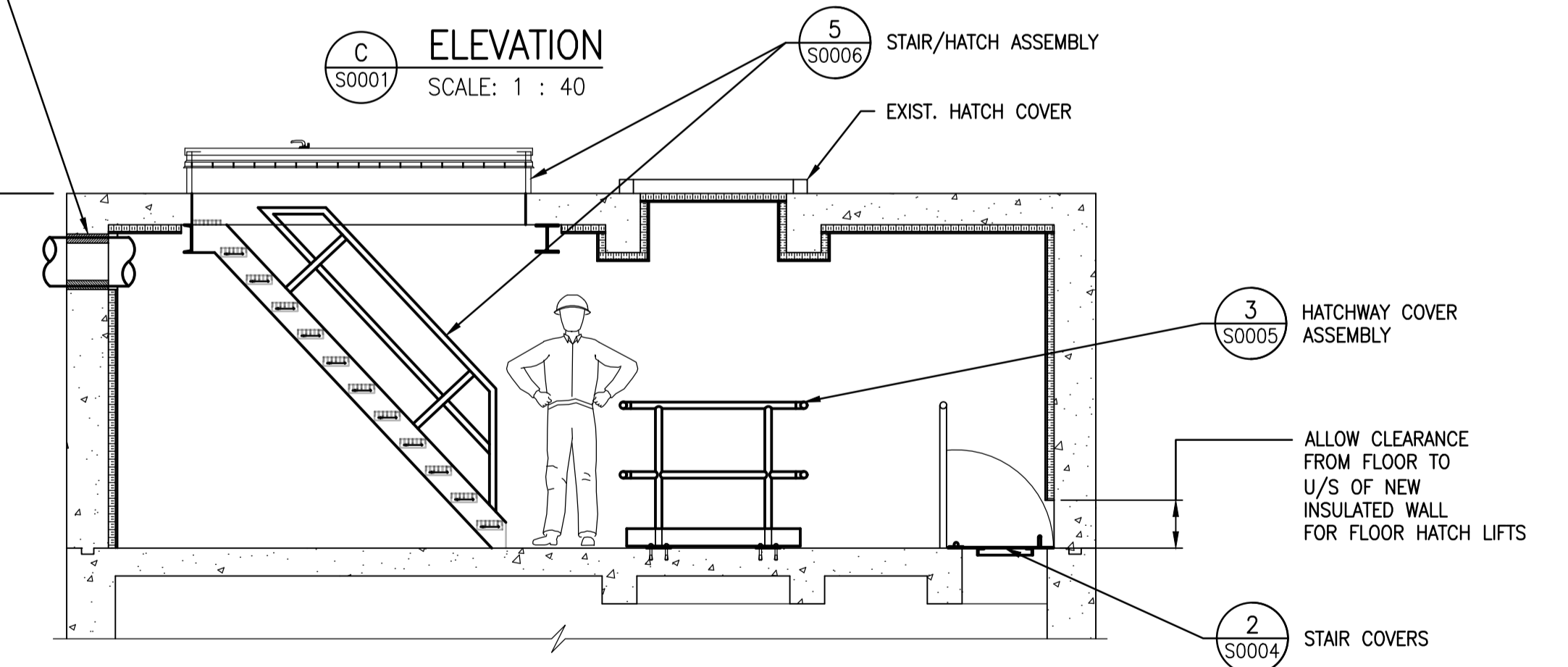
ELEVATION C @ T.O.C. 230.459
SCALE: 1 : 40



PARTIAL ELEVATION A @ T.O.C. 230.459
SCALE: 1 : 40
- DEPTH VARIES -



PARTIAL ELEVATION B @ T.O.C. 230.459
SCALE: 1 : 40
- DEPTH VARIES -

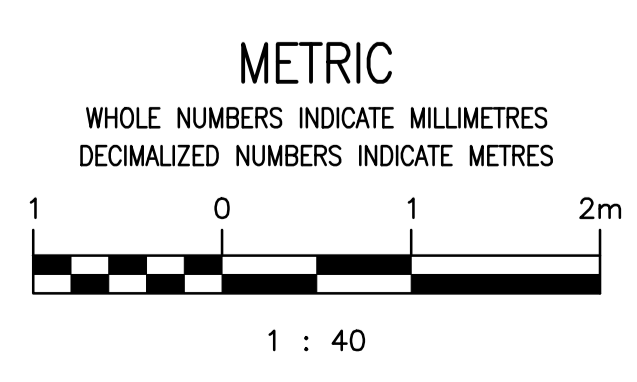


PARTIAL ELEVATION D @ T.O.C. 230.459
SCALE: 1 : 40
- DEPTH VARIES -

- GENERAL NOTES:**
1. THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATION.
 2. THESE NEW INSTALLATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA 2005 AND AS REVISED BY THE MANITOBA BUILDINGS AND MOBILE HOMES ACT (C.C.S.M.C. B93), MR 118, REGULATION 31 AS AMENDED (MBC).
 3. REFERENCE OR COMPLIANCE WITH A STANDARD SHALL MEAN REFERENCE TO THE CURRENT EDITION OF THAT STANDARD AS WELL AS SUPPLEMENTS AND ALL DOCUMENTS REFERENCED THEREIN UNLESS REFERENCE TO A SPECIFIC DOCUMENT VERSION IS MADE.
 4. THE CONTRACTOR SHALL COMPLY WITH ALL HEALTH AND SAFETY REQUIREMENTS AND REGULATIONS FOR THE PROVINCE OF MANITOBA.
 5. THE DRAWINGS SHOW THE COMPLETED STRUCTURAL SYSTEM; THEY DO NOT SHOW WHICH MAY BE NECESSARY FOR SAFETY DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND AROUND THE JOB SITE.
 6. ALL WORK IN THE FIELD TO INCORPORATE PROPER SAFETY PRECAUTIONS TO ENSURE THE SAFETY OF THE WORKERS AND PREVENT DAMAGE TO ALL EXISTING EQUIPMENT AND STRUCTURES.
 7. DO NOT SCALE DRAWINGS
 8. VERIFY ALL DIMENSIONS, ELEVATIONS AND EXTENT OF WORK WITH DRAWINGS AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE CONTRACT ADMINISTRATOR PRIOR TO PROCEEDING WITH CONSTRUCTION. DO NOT DIMENSION FROM ELECTRONIC DRAWINGS. REWORK OF ITEMS FABRICATED PRIOR TO IDENTIFICATION OF DISCREPANCIES AND/OR CONFLICTS SHALL BE AT NO ADDITIONAL COST TO THE CITY.
 9. LOCATE SERVICES AND PROTECT THEM AT ALL TIMES DURING CONSTRUCTION.
 10. STRUCTURAL INTEGRITY OF EXISTING STRUCTURES TO BE MAINTAINED DURING CONSTRUCTION.
 11. REPORT ANY UNSOUND CONDITIONS OBSERVED OR CREATED IMMEDIATELY TO THE CONTRACT ADMINISTRATOR.
 12. MODIFICATIONS, ALTERATIONS, OR SUBSTITUTIONS MUST BE AUTHORIZED IN WRITING BY THE CONTRACT ADMINISTRATOR PRIOR TO ANY FABRICATION OR ERECTION.
 13. ALL CONTRACTOR MEANS AND METHODS, INCLUDING TEMPORARY SCAFFOLDING SHALL BE ERECTED AND REMOVED BY AN APPROPRIATELY EXPERIENCED INSTALLATION CONTRACTOR IN ACCORDANCE WITH MANITOBA REGULATION 217. SCAFFOLDING TO BE DESIGNED AND APPROVED FOR USE IN ACCORDANCE WITH 217.
 14. SUBMIT SHOP DRAWINGS FOR REVIEW.
 15. SEE DRAWING 1-0173F-S0002 FOR STRUCTURAL NOTES.

NOTE: EXISTING HOLE ENLARGEMENT

FIELD LOCATE AND MARK REINFORCING IN REGION OF EXISTING HOLE. BOTH FACES OF CONCRETE. NOTIFY ENGINEER AND ALLOW FIELD REVIEW OF MARKINGS PRIOR TO CUTTING NEW LARGER HOLE. FIELD ADJUST HOLE LOCATION AS INDICATED BY ENGINEER TO MINIMIZE CUTTING EXISTING REINFORCING. USE WALL-MOUNTED CONCRETE CORE DRILL OR SIMILAR TO PRODUCE LARGER HOLE, TAKING CARE NOT TO OVERSIZE HOLE LARGER THAN INDICATED. SEE MECHANICAL DRAWING 1-0173F-M0002 & M0003



DRAWING NUMBER	REFERENCE DRAWINGS
LD-2960	POLSON FLOOD PUMPING STATION - CONCRETE SLAB REPAIR
LD-2644	POLSON FLOOD PUMPING STATION - ACCESS HATCH
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5-SD-4	POLSON AVENUE PUMPING STATION - SHEET 2
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512	POLSON COMMUNOTOR STATION - REINFORCING STEEL DETAILS
511	POLSON COMMUNOTOR STATION - CONSTRUCTION DETAILS

NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR TENDER, BID OP 567-2020	2020/08/19	K.K.	B.C.

 SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	
DESIGNED BY: K. KOTYK	CHECKED BY: B. CLEVEN
DRAWN BY: B. DICKSON	APPROVED BY: B. CLEVEN
SCALE: 1 : 40	ISSUED FOR CONSTRUCTION
DATE: 2020/05/25	BY:
CONSULTANT NO.:	DATE:

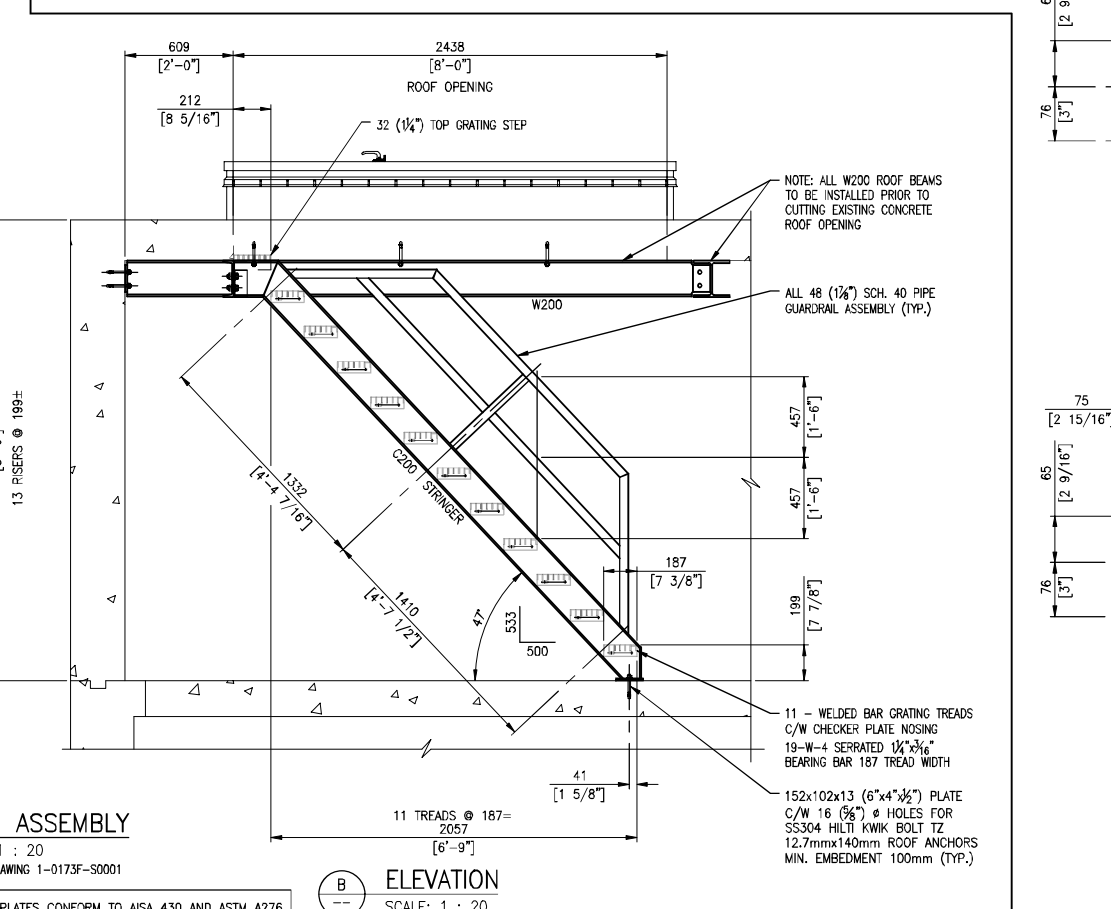
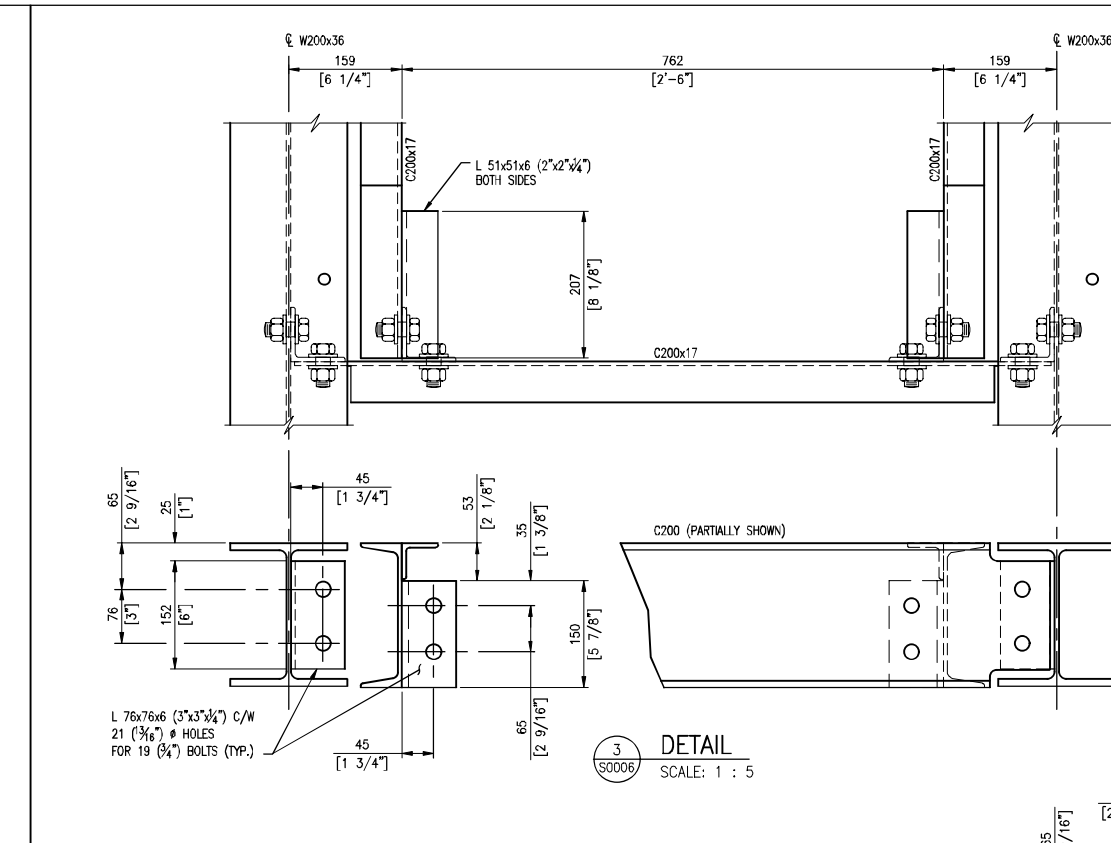
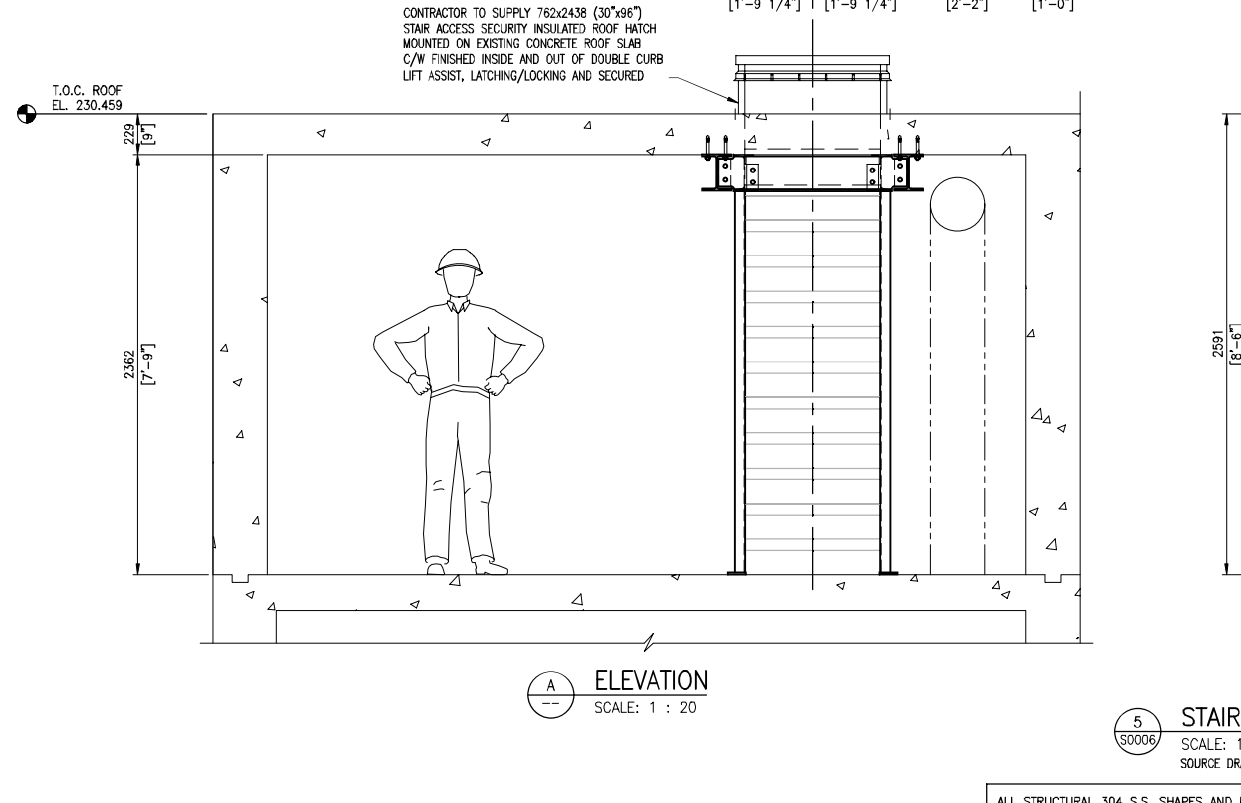
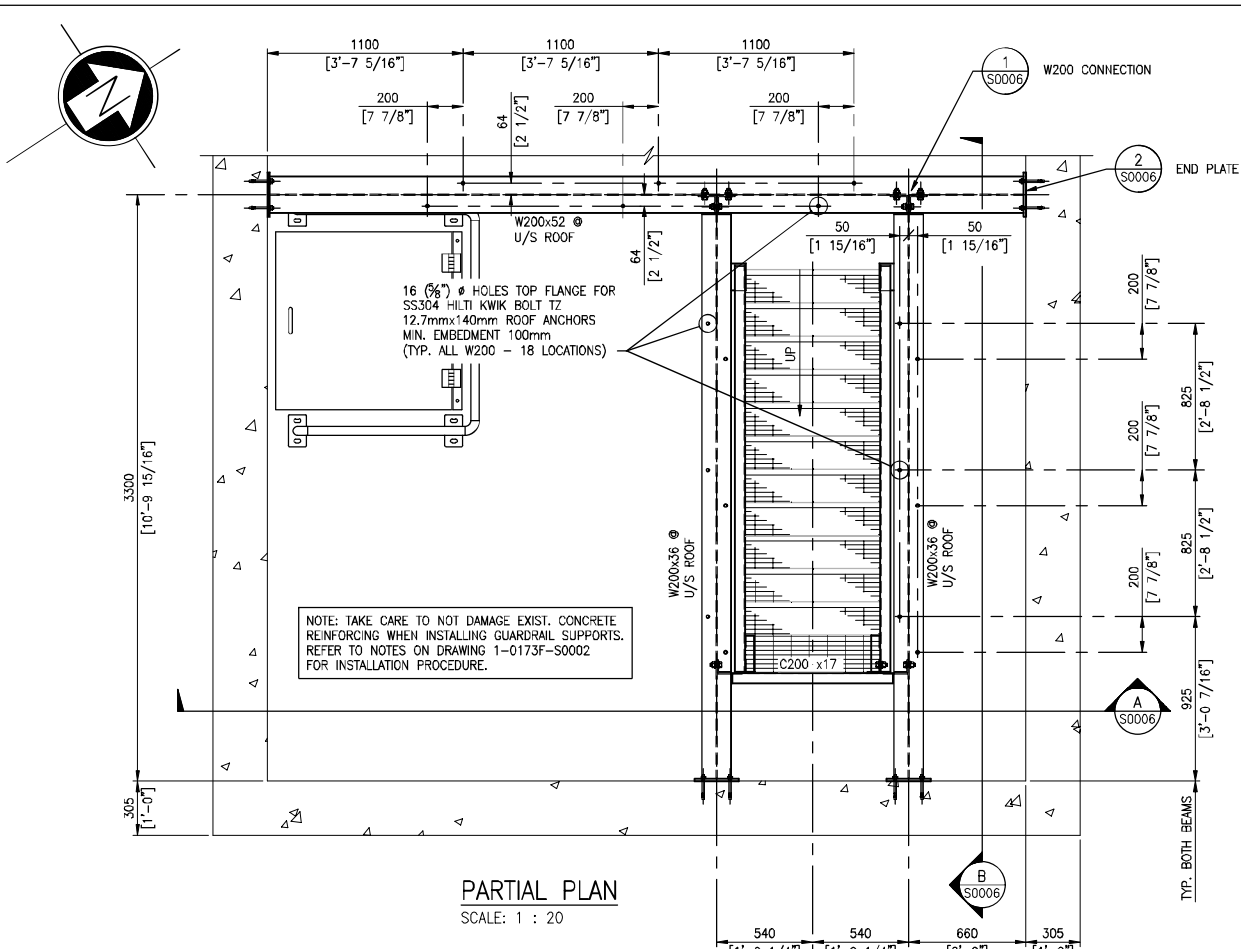
ENGINEER'S SEAL

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NOT TO BE
USED FOR
CONSTRUCTION

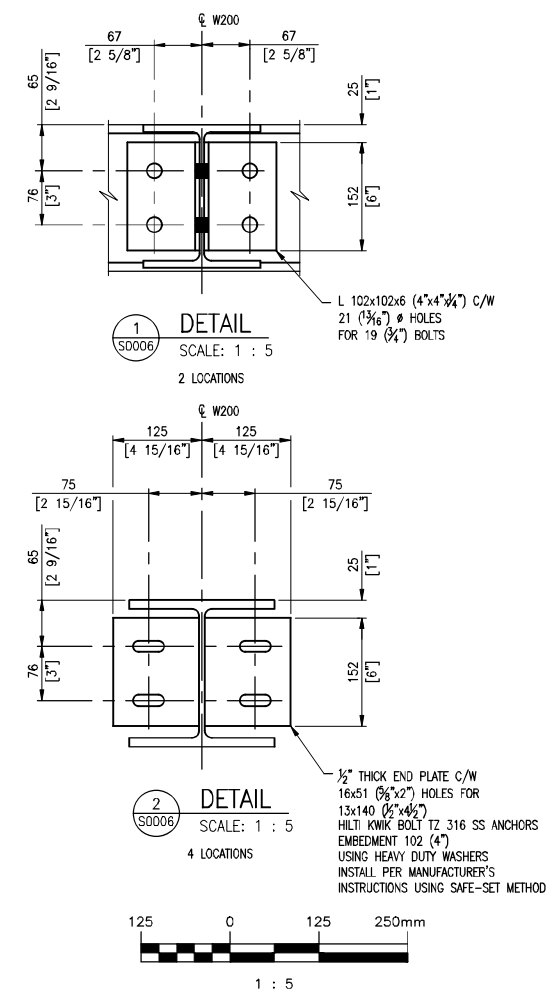
 THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT	
POLSON FLOOD PUMPING STATION 2020 UPGRADES STRUCTURAL MODIFICATIONS - COMMUNOTOR CHAMBER PLANS, ELEVATIONS, DETAILS & NOTES	
CITY DRAWING NUMBER 1-0173F-S0001	SHEET REV. SIZE 001 00 A1

AI SIZE - 594mm x 841mm

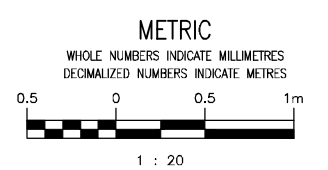
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NOTES:
 1. SEE DRAWING 1-0173F-S0001 FOR GENERAL NOTES.
 2. SEE DRAWING 1-0173F-S0002 FOR STRUCTURAL NOTES.



DRAWING NUMBER	REFERENCE DRAWINGS
LD-2960	POLSON FLOOD PUMPING STATION - CONCRETE SLAB REPAIR
LD-2644	POLSON FLOOD PUMPING STATION - ACCESS HATCH
LD-2643	POLSON FLOOD PUMPING STATION - FLAPGATE INSTALLATION
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NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR TENDER, BD OP 567-2020	2020/08/19	K.K.	B.C.

SNC-LAVALIN INC.	
DESIGNED BY:	K. KOTYK
CHECKED BY:	B. CLEVEN
DRAWN BY:	B. DICKSON
APPROVED BY:	B. CLEVEN
SCALE:	AS SHOWN
ISSUED FOR CONSTRUCTION BY:	
DATE:	2020/05/25
CONSULTANT NO.:	

ENGINEER'S SEAL
PRELIMINARY
 NOT TO BE USED FOR CONSTRUCTION

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

POLSON FLOOD PUMPING STATION
 2020 UPGRADES
 STRUCTURAL MODIFICATIONS - COMMUNOTOR CHAMBER
 NEW STAIR ACCESS

CITY DRAWING NUMBER: 1-0173F-S0006
 SHEET: 001
 REV: 00
 SIZE: A1

1-0173F-S0006-001.dwg