



KEY PLAN



DRAWING INDEX	
DWG.	DESCRIPTION
C-1	OVERALL SITEPLAN
S-1	NEW ACCESS PLATFORM PLANS, SECTIONS AND NOTES
S-2	NEW ACCESS PLATFORM PLANS AND DETAILS
PD-0	PROCESS LEGEND
PD-1	INLET AND PRIMARY FILTRATION
PD-2	DISSOLVED AIR FLOTATION (DAF)
PD-3	SECONDARY FILTRATION
PD-4	BACKWASH TO WASTE AND DISTRIBUTION
P-1	PROCESS EQUIPMENT PLANS
P-2	PROCESS EQUIPMENT PLANS
P-3	PROCESS EQUIPMENT SECTIONS AND NOTES
P-4	PROCESS EQUIPMENT SECTIONS
P-5	BEAM AND GRATING MODIFICATIONS
P-6	MISCELLANEOUS DETAILS
E-1	ONE LINE DIAGRAM
E-2	ROOM LAYOUTS, NEW CONTROL PANELS, ETHERNET, INTERCONNECTION DIAGRAM

WATER TREATMENT PLANT UPGRADE

MUNICIPALITY OF EAST HANTS

NOVA SCOTIA, CANADA

PROJECT NO. 21-1662

REV 1 RE-ISSUED FOR TENDER 04/06/2023

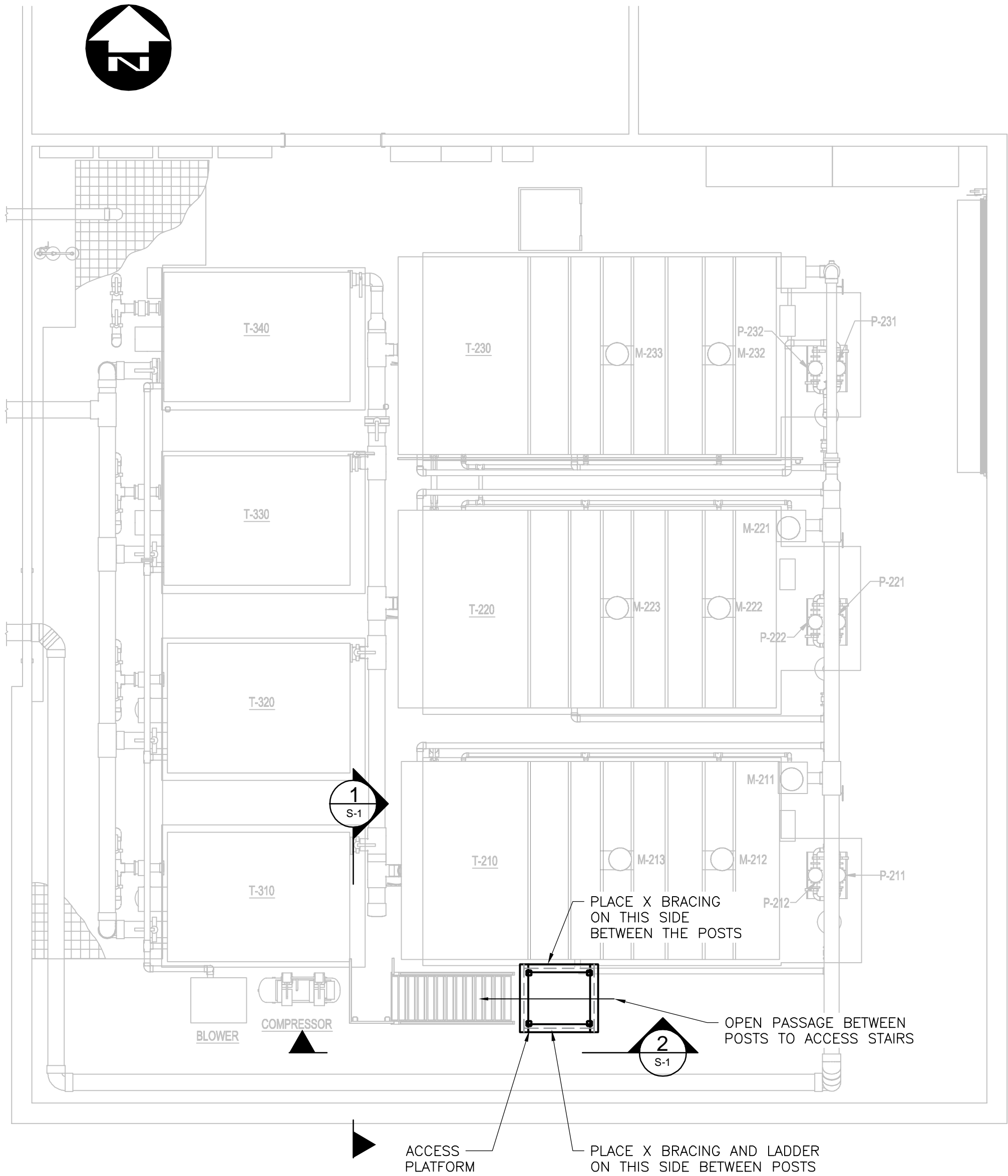
RE-ISSUED FOR TENDER

NOT FOR CONSTRUCTION



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FILENAME: C:\PW WORKING DIRECTORIES\PROJECTS 2021\USM\21662\21662-09-STRUCT-CON.DWG PLOTTED BY: ZORCERASER, SHANNON
PLOT DATE: 2023-04-04 @ 3:46:49 PM PLOT SCALE: 1:25 & PLOT STYLE: DILLON-STD.AUTOCAD.CTB



PLAN AT ELEV. 18.00m
SCALE 1:75

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL BUILDING CODE OF CANADA 2020.
2. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH OCCUPATIONAL HEALTH AND SAFETY ACT OF NOVA SCOTIA.
3. CONTRACTOR MUST VERIFY EXISTING DIMENSIONS AND CONDITIONS ON SITE BEFORE PROCEEDING WITH ANY PORTION OF THIS WORK.
4. NO ALTERATIONS TO STRUCTURAL DETAILS SHALL BE MADE WITHOUT WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER.
5. THE CONTRACTOR SHALL COORDINATE DETAILS SHOWN ON THE STRUCTURAL DRAWINGS WITH ALL OTHER DISCIPLINE'S DRAWINGS AND SPECIFICATIONS.
6. ALL DIMENSIONS SHOWN ARE APPROXIMATE ONLY. EXISTING CONDITIONS MAY VARY. CONTRACTOR SHALL VERIFY AND CHECK ALL DIMENSIONS ON DRAWINGS PRIOR TO COMMENCING WORK. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
7. SAFEGUARD AND PROTECT ALL EXISTING STRUCTURES, SERVICES AND UTILITIES WHICH MAY BE AFFECTED BY THE WORK.
8. THE FULL EXTENT OF CUTTING AND PATCHING IS NOT NECESSARILY SHOWN ON THESE DRAWINGS. REFER AS WELL TO CIVIL, MECHANICAL, ELECTRICAL AND OTHER DRAWINGS FOR RELATED WORK AND POSITIONING OF EQUIPMENT.
9. DRAWINGS ARE NOT TO BE SCALED.
10. ALL STANDARDS REFERENCED ARE TO BE THE MOST RECENT EDITION.
11. CONTRACTOR SHALL PROTECT EXISTING STRUCTURE DURING CONSTRUCTION.
12. CONTRACTOR SHALL LOCATE ALL EXISTING SLAB REINFORCING BARS TO MINIMIZE THE EXTENT OF BARS CUT WHERE POSSIBLE.

WELD NOTES

1. MINIMUM WELD SIZE = 5mm
2. WELD TYPE = FILLET WELD
3. ALL WELDING TO MEET CSA W59, COMPANIES TO BE CERTIFIED UNDER W471.
4. WELDING ELECTRODES TO BE E49XX.

TEMPORARY BRACING AND SHORING

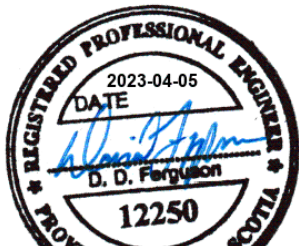
1. TEMPORARY BRACING AND SHORING SHALL BE EMPLOYED TO WITHSTAND ALL LOADS WHICH THE STRUCTURE MAY BE SUBJECT TO DURING CONSTRUCTION. DESIGN OF TEMPORARY BRACING AND SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

Conditions of Use

Verify elevations and/or dimensions on drawing prior to use.
Report any discrepancies to Dillon Consulting Limited.

Do not scale dimensions from drawing.

Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior written permission from Dillon Consulting Limited.



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1	RE-ISSUED FOR TENDER	04/06/2023	MWB		
0	ISSUED FOR TENDER	09/06/2022	MWB		
No	ISSUED FOR	DATE	BY		

DESIGN	JMS	REVIEWED BY	DF
DRAWN	SJM	CHECKED BY	JMS
DATE	APRIL 2023		
SCALE	AS NOTED		

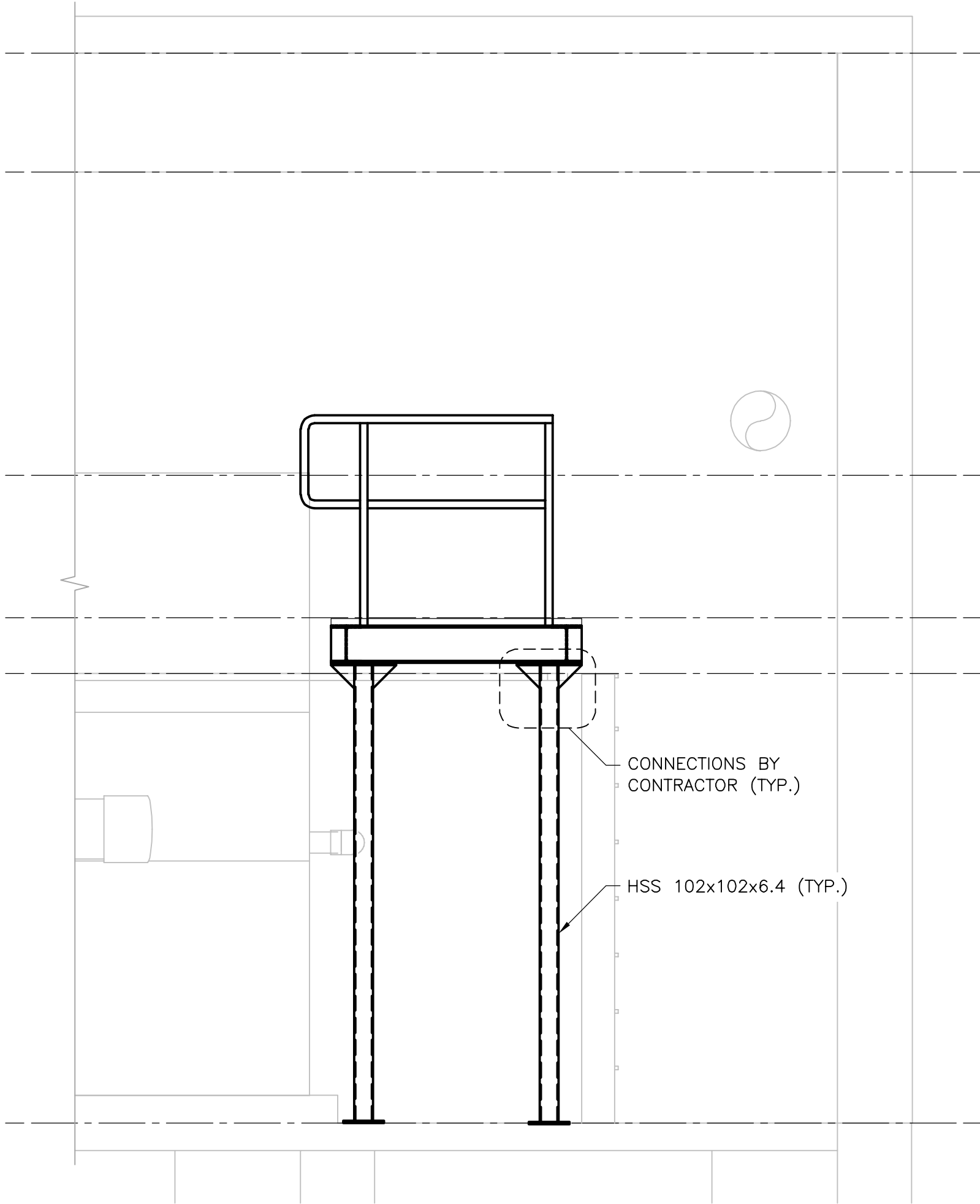
MUNICIPALITY OF EAST HANTS
WATER TREATMENT PLANT UPGRADE

NEW ACCESS PLATFORM PLANS,
SECTIONS AND NOTES

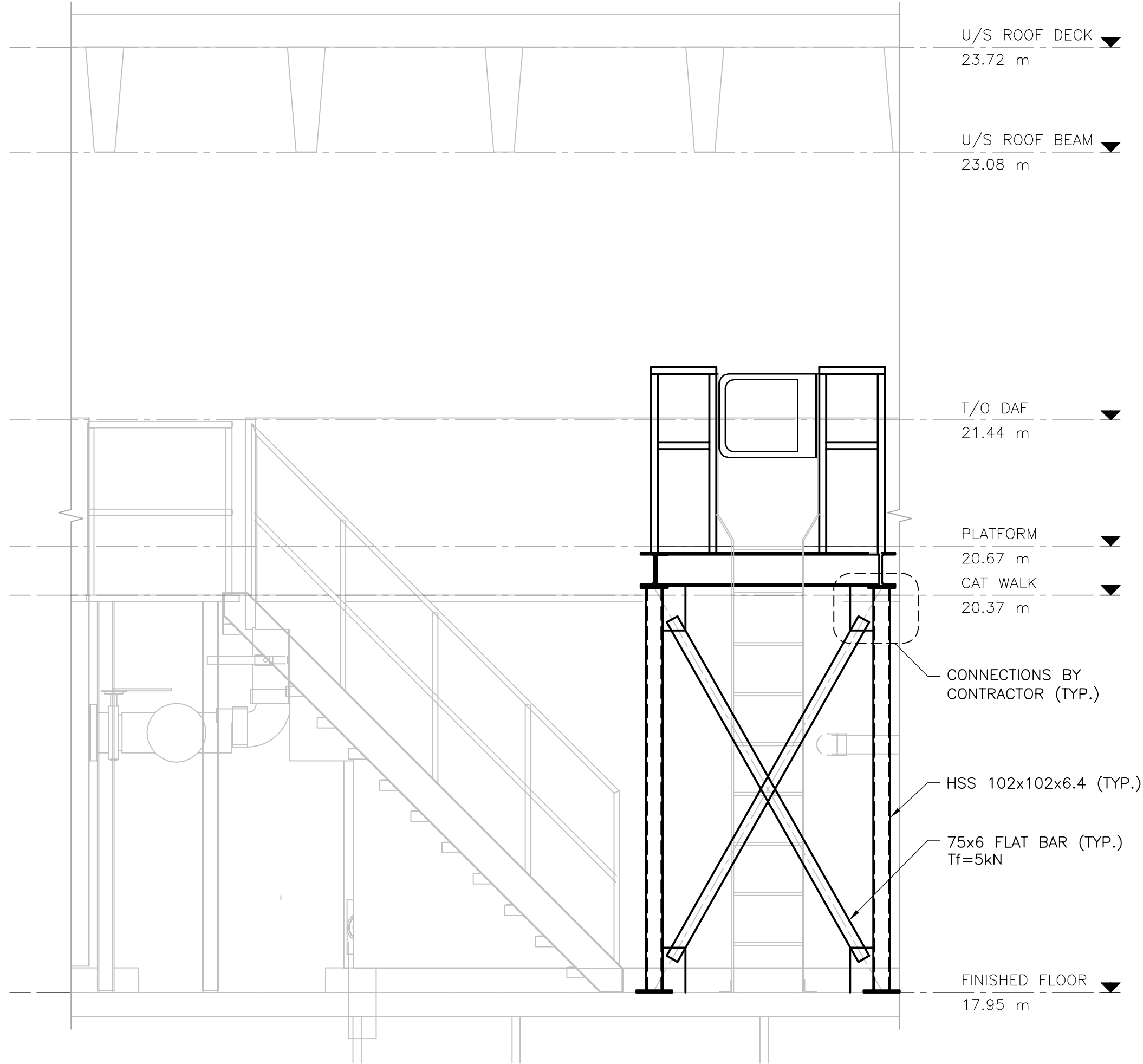
PROJECT NO.
21-1662

SHEET NO.

S-1



1 WEST ELEVATION
SCALE: 1:25



2 SOUTH ELEVATION
SCALE: 1:25

NOTE: INSTALL BRACING ON NORTH AND SOUTH SIDES OF PLATFORM

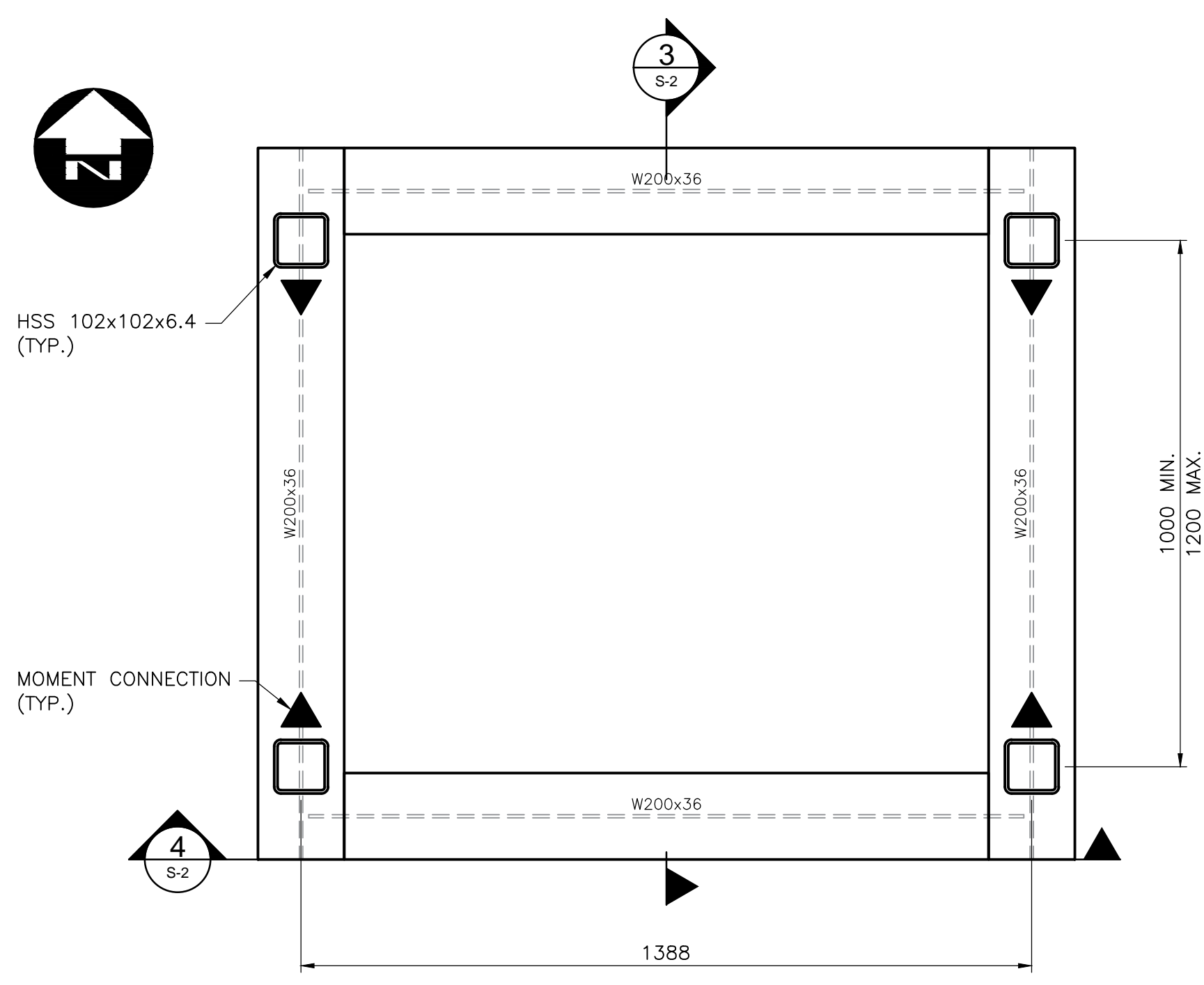
DESIGN LOADS FOR PLATFORM (SPECIFIED):
DEAD LOAD: 0.50 kPa (NOT INCLUDING RAILINGS)
LIVE LOAD: 3.60 kPa

STRUCTURAL STEEL NOTES:

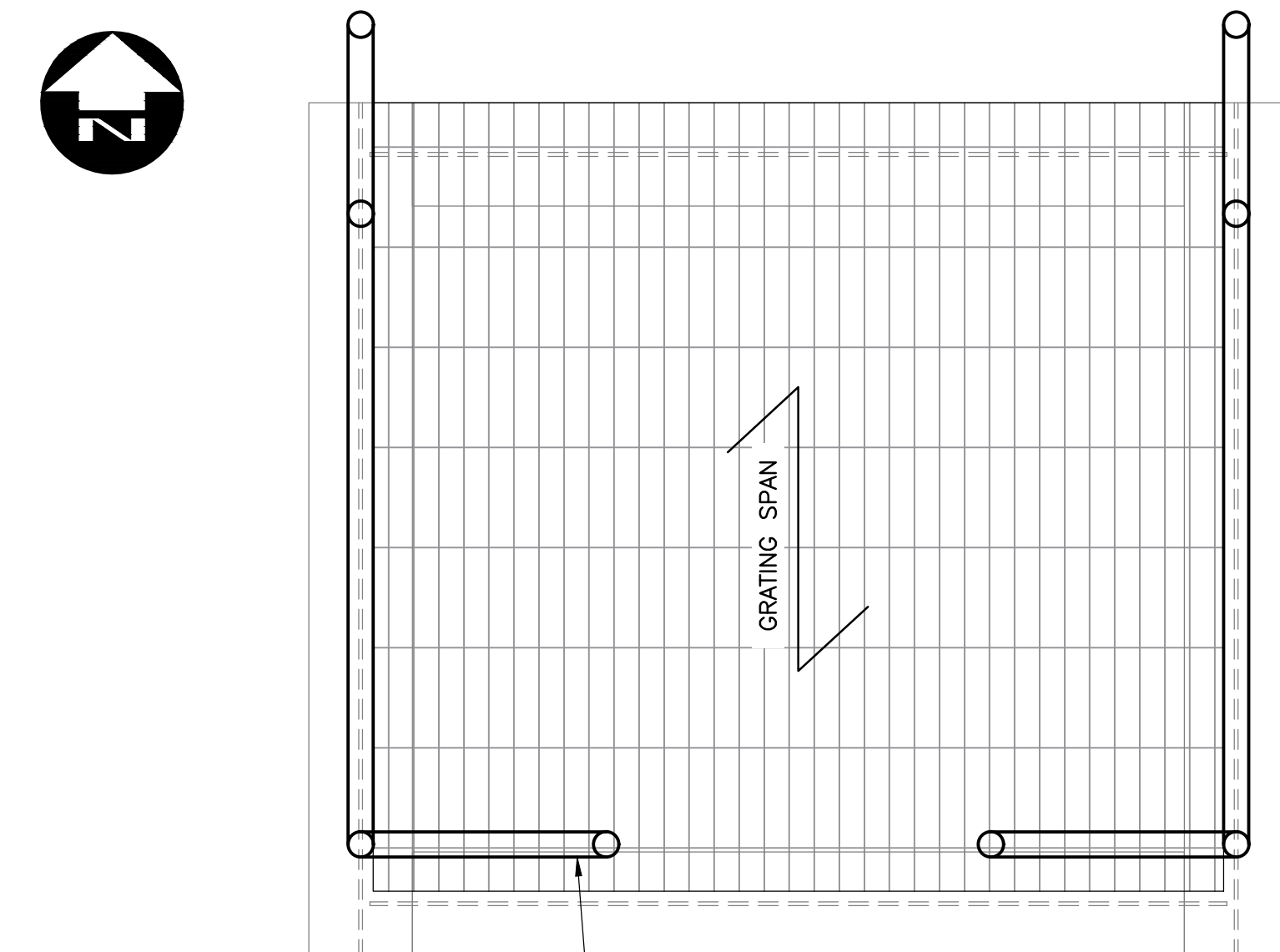
1. STEEL DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO CAN/CSA S16 LATEST EDITION.
2. FIXED LADDER DESIGN, FABRICATION AND ERECTION SHALL ALSO CONFORM TO ANSI A14.3 FIXED LADDERS-2008.
3. ALL STRUCTURAL STEEL TO MEET CAN/CSA - G40.21 SPECIFICATIONS AS FOLLOWS:
 - CHANNELS, PLATES & ANGLES - GRADE 300W (MIN.)
 - STRUCTURAL W SHAPES - GRADE 350W
 - STRUCTURAL HSS - GRADE 350W CLASS C
4. ALL HANDRAIL AND HANDRAIL POSTS TO MEET ASTM A53 - GRADE 205 MPa SPECIFICATIONS.
5. ALL BOLTS TO CONFORM TO ASTM F3125 GRADE A325 TYPE 1.
6. BEAM CONNECTIONS SHALL BE DESIGNED FOR VERTICAL REACTIONS DUE TO MAXIMUM UNIFORMLY DISTRIBUTED LOADS WHICH THE GIVEN SECTION IS CAPABLE OF RESISTING IN A LATERALLY SUPPORTED CONDITION, UNLESS NOTED OTHERWISE. ALSO, ALL CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM TENSILE OR COMPRESSIVE FORCE OF 10KN (SPECIFIED LOAD), UNLESS NOTED OTHERWISE. DIAGONAL BRACING CONNECTIONS SHALL BE WELDED OR MIN. 2- BOLT CONNECTIONS.
7. SUBMIT SHOP DETAILS AND ERECTION DIAGRAMS TO THE ENGINEER FOR REVIEW BEFORE FABRICATION. CONNECTIONS AND DETAILS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN NOVA SCOTIA WHOSE STAMP SHALL APPEAR ON THE DRAWINGS. THIS STAMP WILL SIGNIFY FULL RESPONSIBILITY FOR THE DESIGN OF ALL CONNECTIONS BASED ON THE LOADS GIVEN ON THE DRAWINGS INCLUDING LOAD COMBINATIONS AND PATTERN LOADINGS AS REQUIRED BY THE NATIONAL BUILDING CODE. DRAWING REVIEW WILL BE FOR GENERAL ARRANGEMENT ONLY. RESPONSIBILITY FOR DETAILS, DIMENSION AND CONNECTION DESIGN RESTS SOLELY WITH THE FABRICATOR. CALCULATIONS SHALL BE SUBMITTED FOR REVIEW UPON REQUEST. ALLOW A MINIMUM OF ONE WEEK PER REVIEW.
8. THE LOCATION OF ALL SHOP AND FIELD SPLICES IS SUBJECT TO APPROVAL BY THE ENGINEER.
9. THE STEEL ERECTOR SHALL DESIGN AND PROVIDE TEMPORARY BRACING WHEREVER NECESSARY TO WITHSTAND ALL LOADS WHICH THE STRUCTURE MAY BE SUBJECT TO DURING CONSTRUCTION. TEMPORARY BRACING SHALL REMAIN IN PLACE FOR AS LONG AS REQUIRED FOR SAFETY.
10. PRIOR TO ERECTION, THE STEEL ERECTOR SHALL REVIEW SITE CONDITIONS AND ACTUAL DIMENSIONS, ELEVATIONS, AND LOCATION OF ANCHOR BOLTS. DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER. COMMENCEMENT OF ERECTION WILL INDICATE ACCEPTANCE OF SITE CONDITIONS.
11. STEEL FABRICATOR SHALL BE CERTIFIED TO DIVISION 1 OR 2.1 MINIMUM, BY THE CANADIAN WELDING BUREAU. ALL WELDING TO MEET CSA W59.

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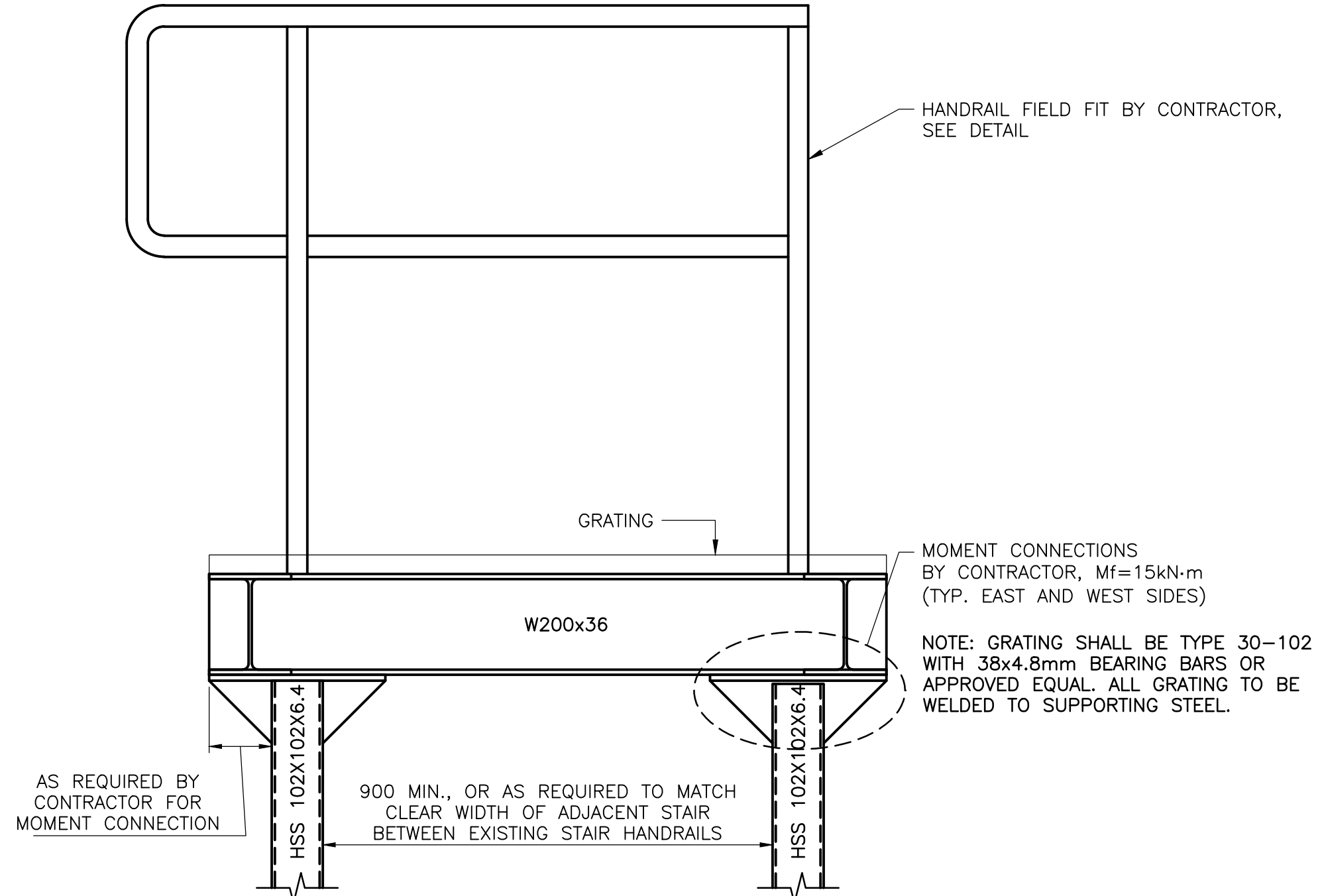
TYPICAL PLATFORM LAYOUT
1:10



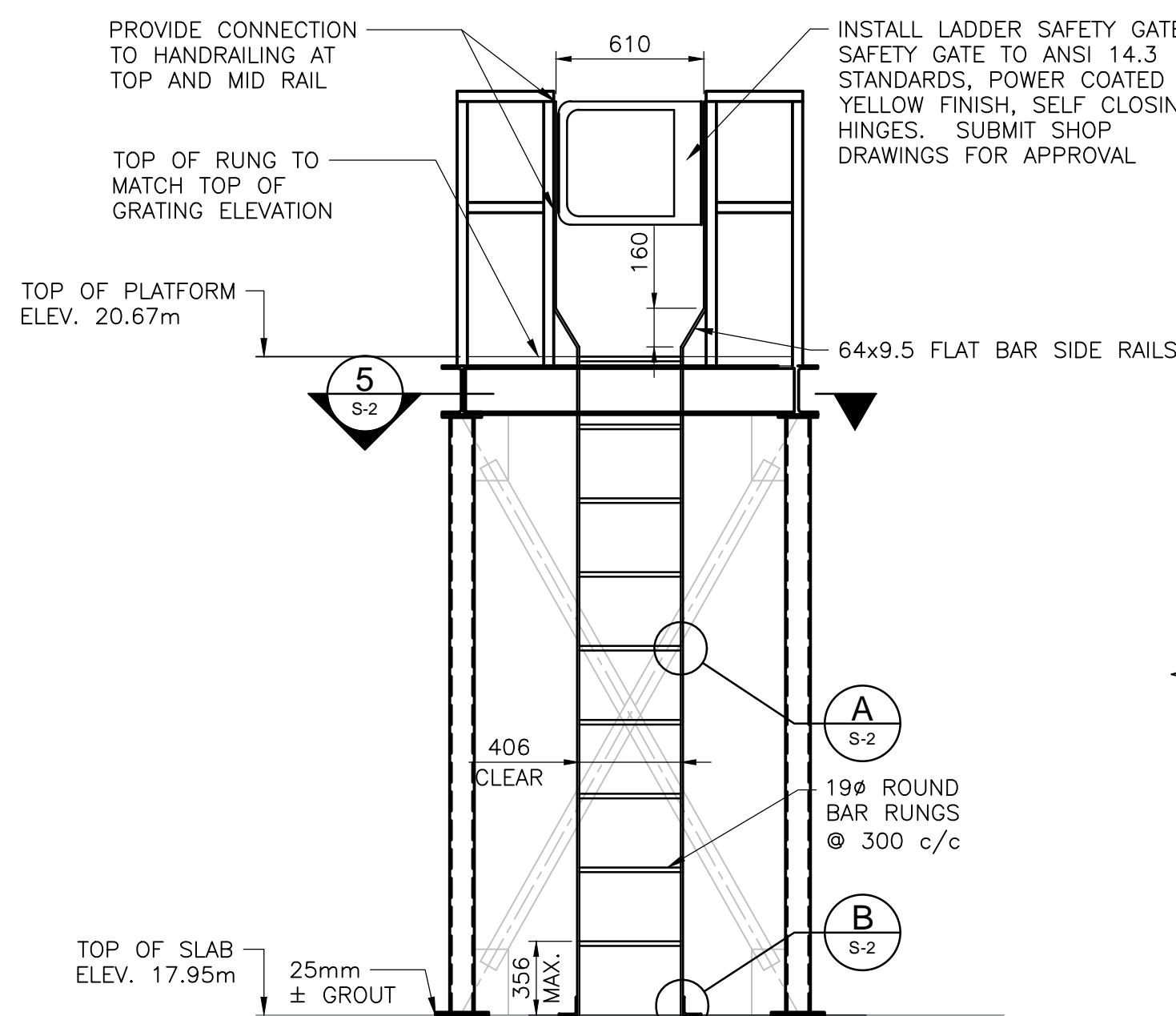
NOTE: GRATING SHALL BE TYPE 30-102 WITH 38x4.8mm BEARING BARS OR APPROVED EQUAL. ALL GRATING TO BE WELDED TO SUPPORTING STEEL OR INSTALLED WITH APPROVED GRATING FASTENERS.

DN40 XS HANDRAIL TO BE FIELD FIT BY CONTRACTOR AND APPROVED BY THE ENGINEER. APPROXIMATE PROPOSED LAYOUT SHOWN. MODIFY AS REQUIRED FOR ACCESS TO EQUIPMENT. SEE TYP. CONSTRUCTION, DETAIL

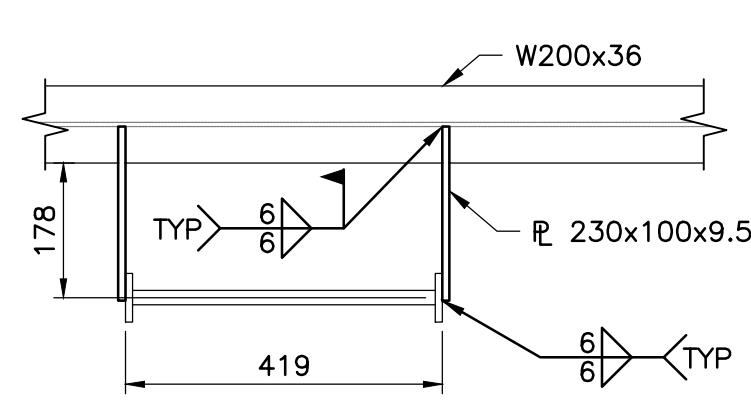
RAILING AND GRATING PLAN
1:10



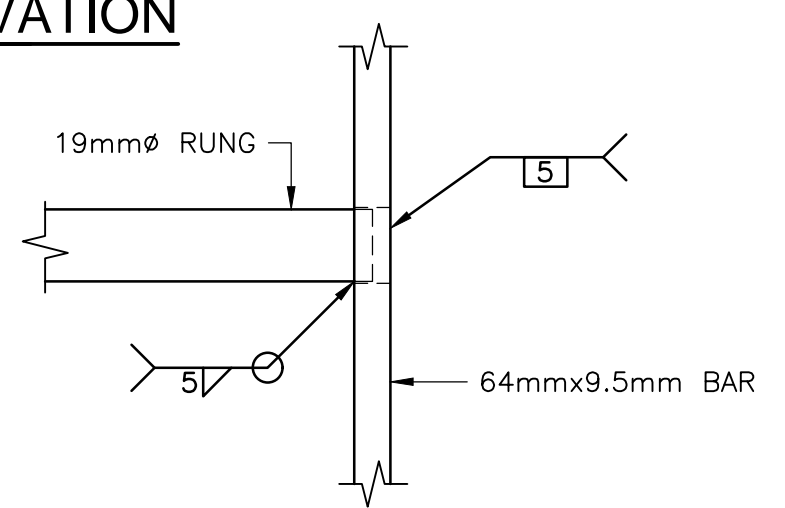
T/O PLATFORM DETAIL
SCALE: 1:10



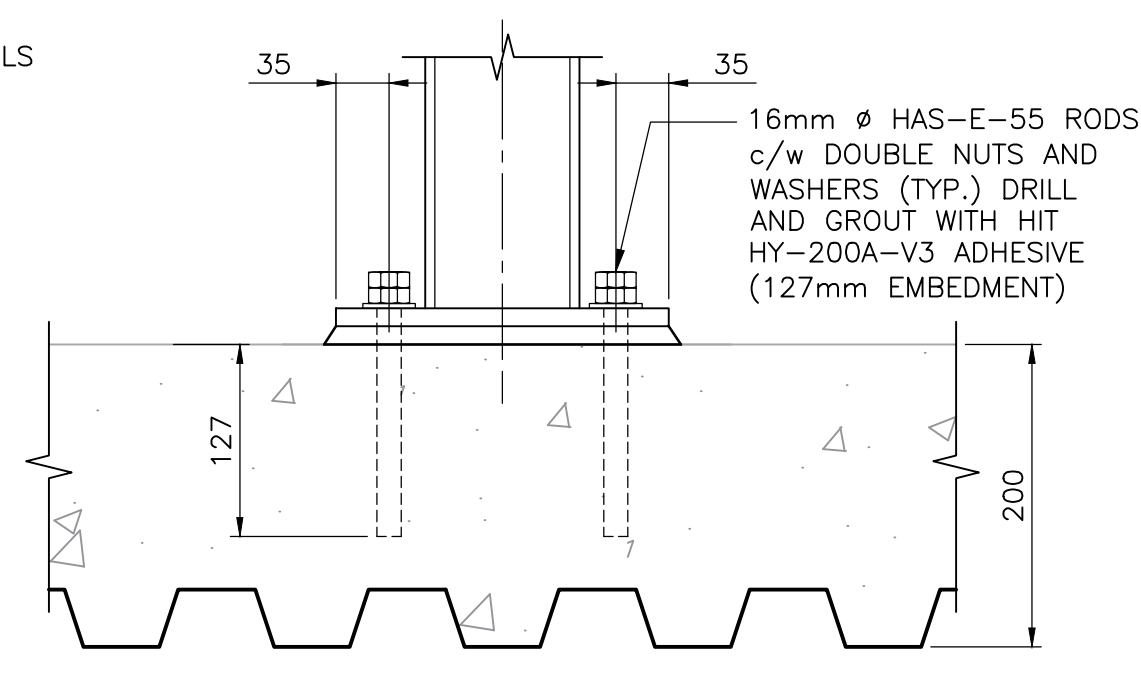
LADDER ELEVATION
SCALE: 1:25



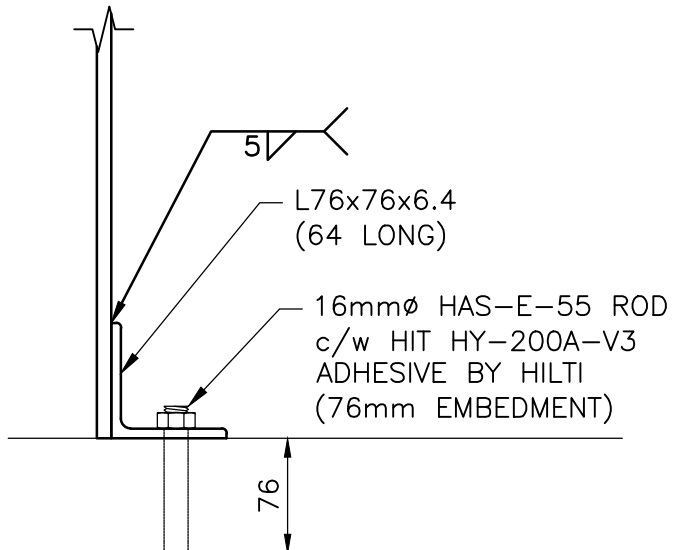
CONNECTION SECTION
SCALE: 1:10



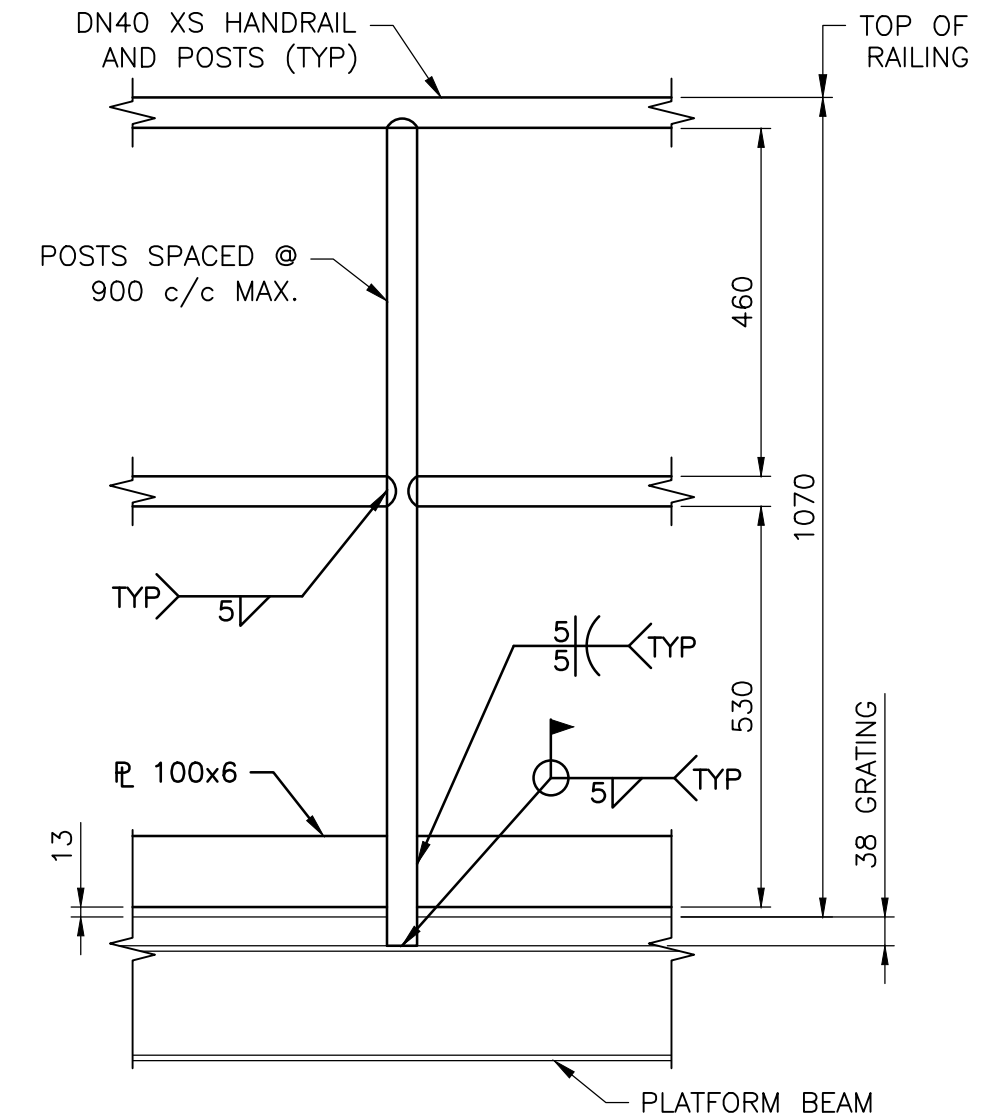
CONNECTION DETAIL
SCALE: 1:2



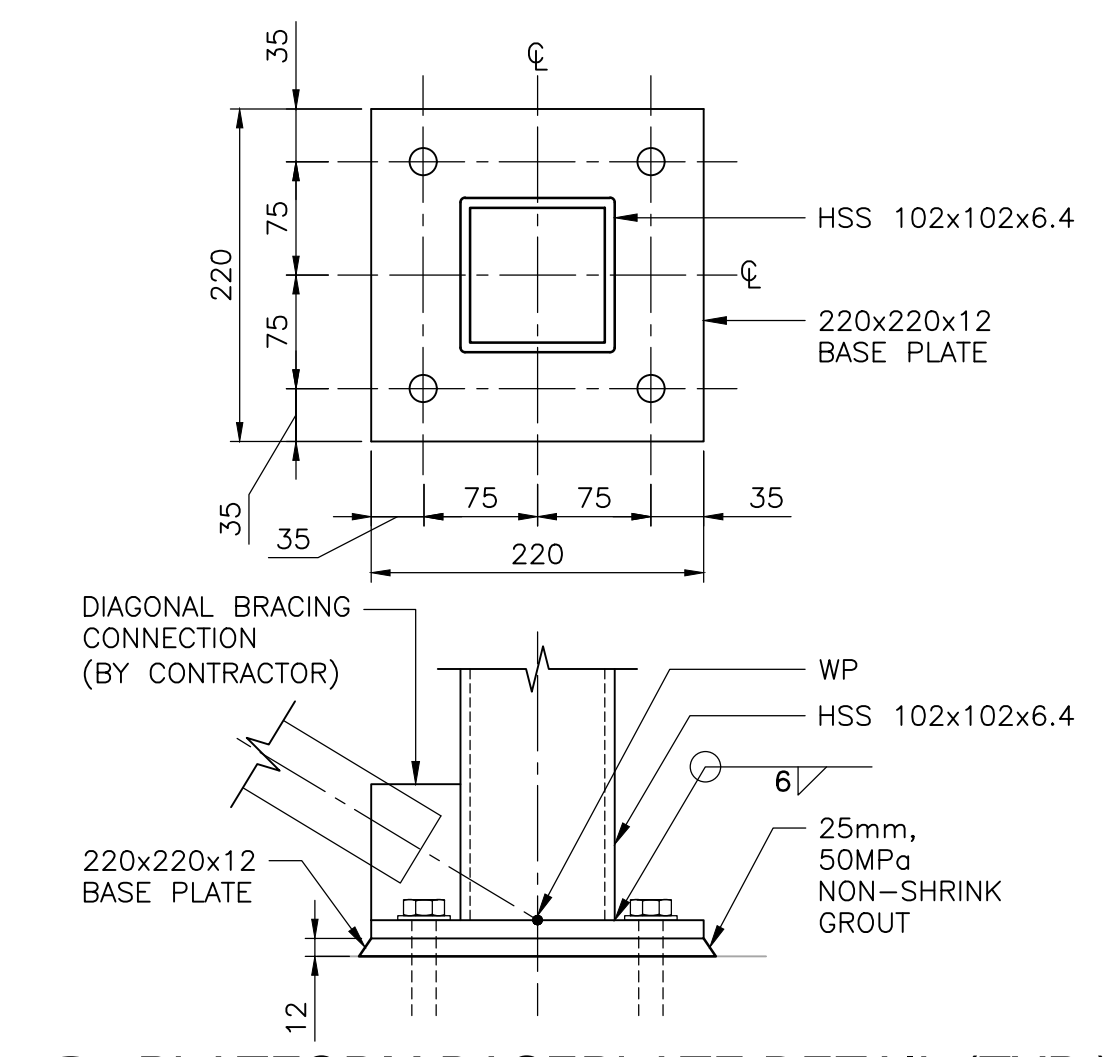
PLATFORM #1 TOP PLATE DETAIL
SCALE: 1:5



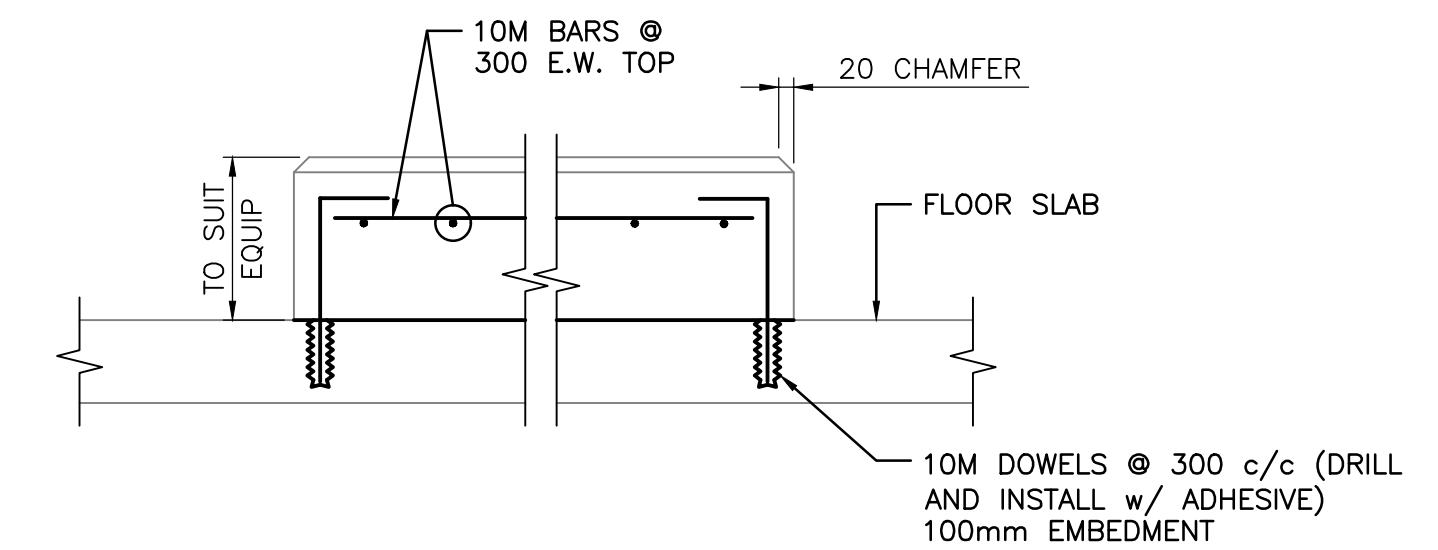
LADDER DETAIL
SCALE: 1:5



HANDRAIL DETAIL
SCALE: 1:10



PLATFORM BASEPLATE DETAIL (TYP.)
SCALE: 1:5



TYPICAL HOUSEKEEPING PAD DETAIL
NOT TO SCALE

- PAINT NOTES:**
- COMMERCIAL BLAST CLEANING OF ALL SURFACES TO SSPC-SP6.
 - ONE SHOP PRIME COAT OF ONE OF THE FOLLOWING PRODUCTS SHALL BE APPLIED WITH A DRY FILM THICKNESS OF 3 TO 4 MILS.
 - CATHA-COAT 302H BY DEVOE COATINGS
 - AMERCOAT 68HS BY AMERCOAT
 - ZINC CLAD III HS BY SHERWIN WILLIAMS
 - CARBOZINC 859 BY CARBOLINE
 - INTERZINC 52 BY INTERNATIONAL PAINTS
 - ONE FINISH COAT OF ONE OF THE FOLLOWING PRODUCTS SHALL BE APPLIED WITH A DRY FILM THICKNESS OF 4 TO 6 MILS.
 - BAR-RUST 235 BY DEVOE COATINGS
 - AMERCOAT 370 BY AMERCOAT
 - MACROPOXY 646 BY SHERWIN WILLIAMS
 - CARBOGUARD 888 BY CARBOLINE
 - INTERGUARD FP BY INTERNATIONAL PAINTS
 - A BRUSH APPLIED STRIPE COAT OF BAR-RUST 235, AMERCOAT 370, MACROPOXY 646, CARBOGUARD 888 OR INTERGUARD FP MUST BE COMPLETED ON ALL EDGES PRIOR TO THE APPLICATION OF THE FINISH COAT.
 - PRIME COAT COLORS MUST CONTRAST FINISH COAT. COLORS SHALL BE SELECTED BY THE ENGINEER AND SHALL MATCH STEEL COLOUR OF EXISTING EQUIPMENT. PRIME COAT AND FINISH COAT SHALL BE MATERIALS MANUFACTURED BY THE SAME PAINT SUPPLIER.
 - TOUCH-UP AND REPAIR OF PAINT DEFECTS SHALL BE PERFORMED USING THE SAME SURFACE PREPARATION, PAINT SYSTEM AND PRODUCTS AS SPECIFIED FOR ADJACENT SURFACES, EXCEPT AS OTHERWISE SPECIFIED, PREVIOUSLY BLAST CLEANED SURFACES NEED ONLY BE POWER WIRE BRUSHED. RECOATING OF DEFECTIVE AREAS SHALL EXTEND 50MM INTO THE EXISTING COATING.
 - ALL FIELD WELDED CONNECTION AREAS SHALL BE CLEANED AND FREE FROM SLAG AND SPATTER. THESE AREAS SHALL BE MECHANICALLY CLEANED WITH A POWER WIRE BRUSH ATTACHMENT AND CLEANED TO REMOVE ANY SURFACE RESIDUE PRIOR TO THE APPLICATION OF THE COATING SYSTEM. THE PAINTING OF SUCH AREAS SHALL CONSIST OF THE APPLICATION OF PRIME COAT AND ONE TOP COAT TO THE MINIMUM DRY FILM THICKNESS SPECIFIED FOR SHOP COAT APPLICATIONS.

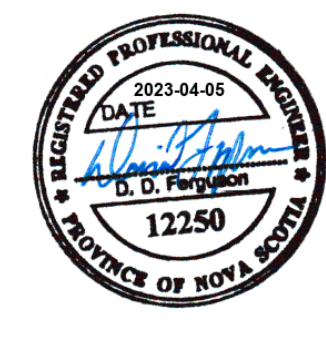
- PLATFORM NOTES:**
- PLATFORM DIMENSIONS APPROXIMATE ONLY. CONFIRM ALL DIMENSIONS AND FINAL LOCATIONS WITH MECHANICAL PRIOR TO CONSTRUCTION.

Conditions of Use

Verify elevations and/or dimensions on drawing prior to use. Report any discrepancies to Dillon Consulting Limited.

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MUNICIPALITY OF EAST HANTS WATER TREATMENT PLANT UPGRADE	PROJECT NO. 21-1662
NEW ACCESS PLATFORM PLANS AND DETAILS AND TYPICAL HOUSEKEEPING PAD DETAIL	SHEET NO. S-2

GENERAL LEGEND:

	CENTRE LINE
	PLATE
	GATE VALVE
	PLUG VALVE
	GLOBE VALVE
	BALL VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	Y-STRAINER
	PRESSURE REGULATING VALVE (PRV)
	PRESSURE SAFETY VALVE (PSV)
	FUTURE PIPE –UNINSULATED
	EXISTING PIPE –UNINSULATED
	EXISTING PIPE –INSULATED
	FLOW DIRECTION IN PIPE
	NEW PIPE –UNINSULATED
	BURIED OR HIDDEN PIPE
	POINT ELEVATION
APPROX.	– APPROXIMATE
B.O.	– BOTTOM OF
B.O.P.	– BOTTOM OF PIPE
C.C.C.	– CHLORINE CONTACT CHAMBER
C.O.D.	– CONTINUED ON DRAWING
CONC.	– CONCENTRIC
CONCR.	– CONCRETE
C/W	– COMPLETE WITH
DIA.	– DIAMETER
DWG.	– DRAWING
ECC.	– ECCENTRIC
EL.	– ELEVATION
F.F.	– FLAT FACE
F.O.B.	– FLAT ON BOTTOM
F.O.T.	– FLAT ON TOP
PRV	– PRESSURE REDUCING VALVE
PI	– PRESSURE INDICATOR
PT	– PRESSURE TRANSMITTER
PSV	– PRESSURE SAFETY VALVE
RED.	– REDUCER
REF.	– REFERENCE
RF	– RAISED FACE
SCH.	– SCHEDULE
SHT.	– SHEET
STD.	– STANDARD (SCH.40)
SV	– SOLENIOD VALVE
TI	– TEMPERATURE INDICATOR
TT	– TEMPERATURE TRANSMITTER
TSV	– THERMAL SAFETY VALVE
T.O.	– TOP OF
T.O.C.	– TOP OF CONCRETE
T.O.S.	– TOP OF STEEL
TYP.	– TYPICAL

INSTRUMENTATION LEGEND:

	FIELD MOUNTED INSTRUMENT AT OR NEAR THE PRIMARY ELEMENT
	PANEL MOUNTED INSTRUMENT (FIELD CONTROL PANEL)
	PANEL MOUNTED INSTRUMENT (CENTRAL CONTROL ROOM)
	FIELD MOUNTED CONTROL SYSTEM WITH DISPLAY SCREEN
	PANEL MOUNTED CONTROL SYSTEM WITH DISPLAY SCREEN
	PROGRAMMABLE LOGIC CONTROLLER (PLC)
	COMPUTER INTERFACE (HMI)

INSTRUMENT IDENTIFICATION LEGEND:

FIRST LETTER	SUCCESSING LETTERS
A ANALYSIS	A ALARM
B BURNER COMBUSTION	B USERS CHOICE
C CONDUCTIVITY	C CONTROL CONTROLLER OR CLOSE
D DENSITY (MASS) OR SPECIFIC GRAVITY	D DIFFERENTIAL
E VOLTAGE	E PRIMARY ELEMENT OR PROBE
F FLOW RATE	F RATIO (FRACTION)
G GAUGING	G VIEWING DEVICE (GAUGE)
H HAND (MANUAL)	H HIGH (ALARM ONLY)
I CURRENT	HH HIGH (SHUTDOWN)
J POWER	I INDICATOR
K TIME, TIME SCHEDULE	K SCAN
L LEVEL	L LOW (ALARM ONLY)
M MOISTURE OR HUMIDITY	LL LOW (SHUTDOWN)
N USERS CHOICE	N USERS CHOICE
O USERS CHOICE	O ORIFICE (RESTRICTION) OR OPEN
P PRESSURE OR VACUUM	P POINT (TEST CONNECTION)
Q QUANTITY OR QUALITY	Q INTEGRATE OR TOTALIZE
R RADIOACTIVITY	R RECORDER
S SPEED OR FREQUENCY	S SWITCH OR SAFETY
T TEMPERATURE	T TRANSMITTER
U MULTIVARIABLE	U MULTIVARIABLE
V VIBRATION	V VALVE (DAMPER)
W WEIGHT OR FORCE	W WELL OR PROBE
X UNCLASSIFIED	X SPECIAL UNDEFINED DEVICE
Y EVENT, STATE OR PRESENCE	Y RELAY, COMPUTER OR SOLENOID
Z POSITION	Z UNCLASSIFIED FINAL POINT ELEMENT

PIPE LEGEND:

	GATE VALVE		UNION
	PLUG VALVE		REDUCER
	GLOBE VALVE		MECHANICAL JOINT
	BALL VALVE		BLOWER
	CHECK VALVE		CENTRIFUGAL PUMP
	BUTTERFLY VALVE		VERTICAL TURBINE PUMP
	EDUCATOR		AGITATOR
	SOLENOID VALVE		
	PRESSURE REGULATING VALVE		
	PRESSURE SAFETY VALVE (PSV)		
	Y-STRAINER		
	FLOW METER		

SERVICE TO AND FROM C.O.D. P-X LINE CONTINUATION DRAWING NUMBER

SERVICE TO OR FROM C.O.D. P-X LINE CONTINUATION DRAWING NUMBER

PROESS PIPE IDENTIFICATION:

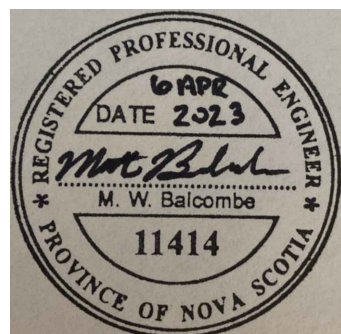
RW-12-PVC	
A. PIPE SERVICE	
AS	–AIR SCOUR
BWR	–BACKWASH WATER RETURN
BWS	–BACKWASH WATER SUPPLY
CA	–COMPRESSED AIR
CF	–CHEMICAL FEED
D	–DRAIN
DE	–DAF EFFLUENT
DCW	–DOMESTIC COLD WATER
IA	–INSTRUMENT AIR
FTW	–FILTERED WATER TO WASTE
FW	–FILTERED WATER
RRW	–RAW RIVER WATER
RW	–RAW WATER
RWW	–RAW WASTE WATER
WW	–WASTE WATER
RW	–RAW WATER
SA	–SERICE AIR
SW	–SERICE WATER
TW	–TREATED WATER
B. NOMINAL PIPE SIZE (NPS)	
C. PIPE MATERIAL	
CS	–CARBON STEEL (SCH.)
CU	–COPPER
DI	–DUCTILE IRON
PVC	–POLYVINYL CHLORIDE
SS	–STAINLESS STEEL (ID PIPE)
40S	–STAINLESS STEEL (SCH. 40S)

Conditions of Use

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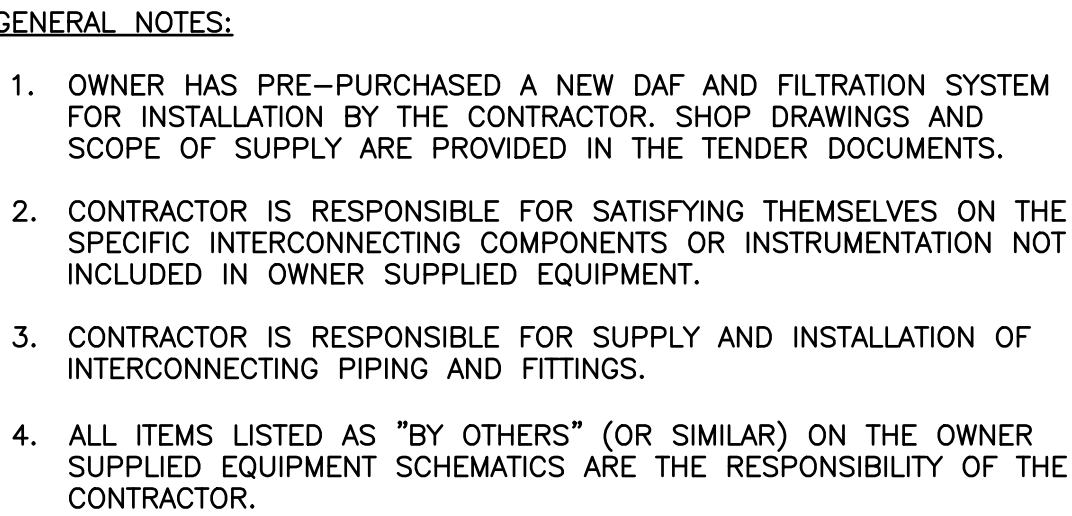
MUNICIPALITY OF EAST HANTS
WATER TREATMENT PLANT UPGRADE

PROJECT NO.
21-1662

SHEET NO.

PROCESS LEGEND

PD-0



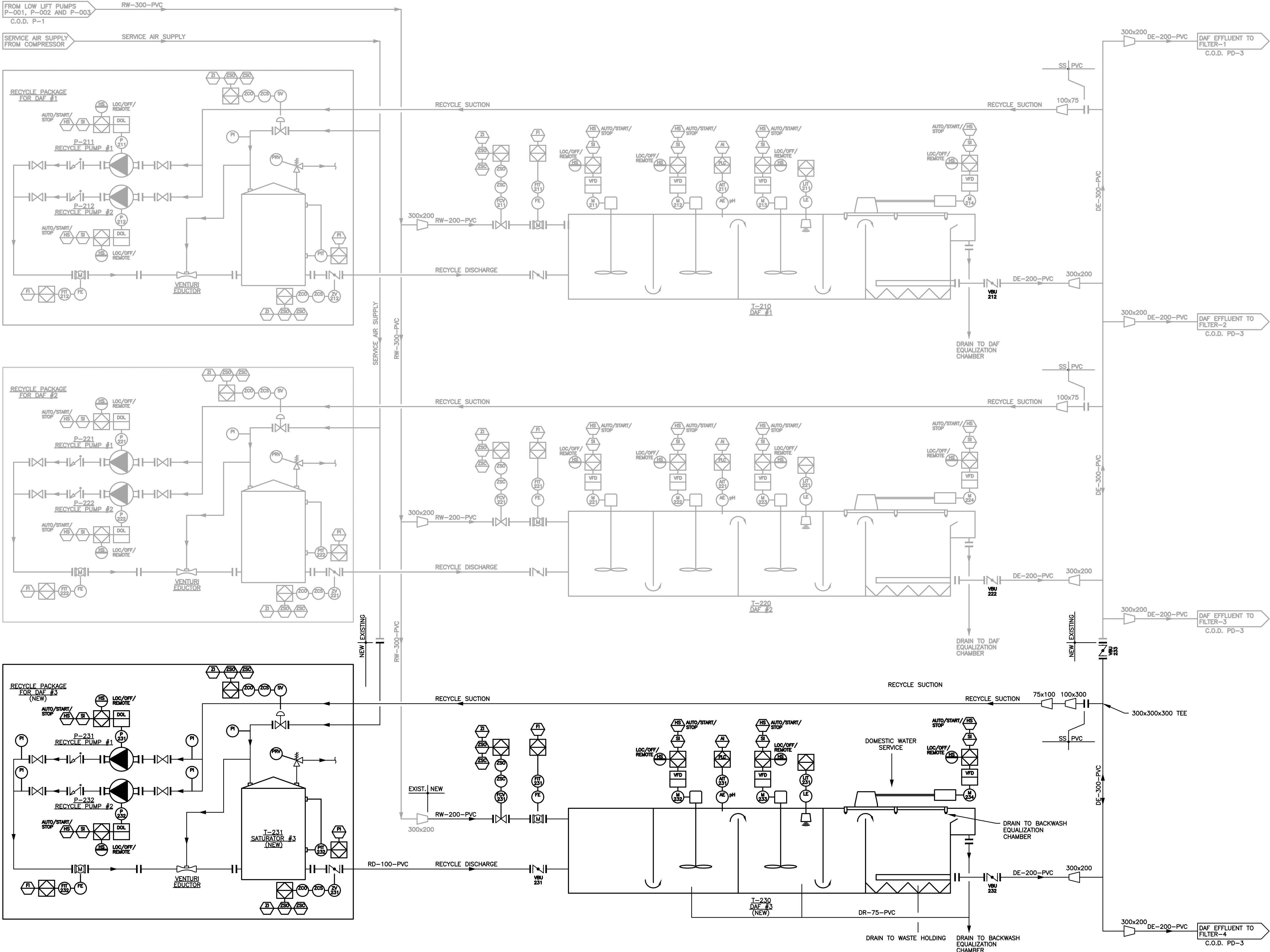
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						DRAWN	CHECKED BY
						SMZ	MWB
						DATE	
							APRIL 2023
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No.	ISSUED FOR			DATE	BY	SCALE	NTS

PD-1



- GENERAL NOTES:
- OWNER HAS PRE-PURCHASED A NEW DAF AND FILTRATION SYSTEM FOR INSTALLATION BY THE CONTRACTOR. SHOP DRAWINGS AND SCOPE OF SUPPLY ARE PROVIDED IN THE TENDER DOCUMENTS.
 - CONTRACTOR IS RESPONSIBLE FOR SATISFYING THEMSELVES ON THE SPECIFIC INTERCONNECTING COMPONENTS OR INSTRUMENTATION NOT INCLUDED IN OWNER SUPPLIED EQUIPMENT.
 - CONTRACTOR IS RESPONSIBLE FOR SUPPLY AND INSTALLATION OF INTERCONNECTING PIPING AND FITTINGS.
 - ALL ITEMS LISTED AS "BY OTHERS" (OR SIMILAR) ON THE OWNER SUPPLIED EQUIPMENT SCHEMATICS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

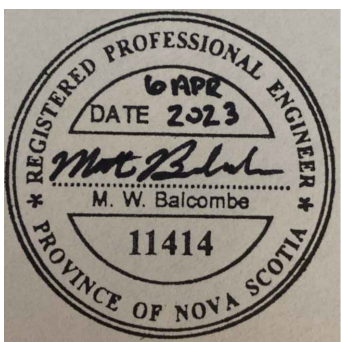
THIS DRAWING HAS BEEN PREPARED BASED ON A BASE DRAWING PREPARED BY OTHERS. DILLON CONSULTING LIMITED CANNOT ASSURE THE ACCURACY OF OTHER'S INFORMATION AND IS NOT RESPONSIBLE FOR THE ACCURACY OF THE DOCUMENT OR FOR ANY ERROR OR OMISSION THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT. CONTRACTOR SHALL VERIFY THE ACCURACY PRIOR TO CONSTRUCTION.

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MUNICIPALITY OF EAST HANTS
WATER TREATMENT PLANT UPGRADE

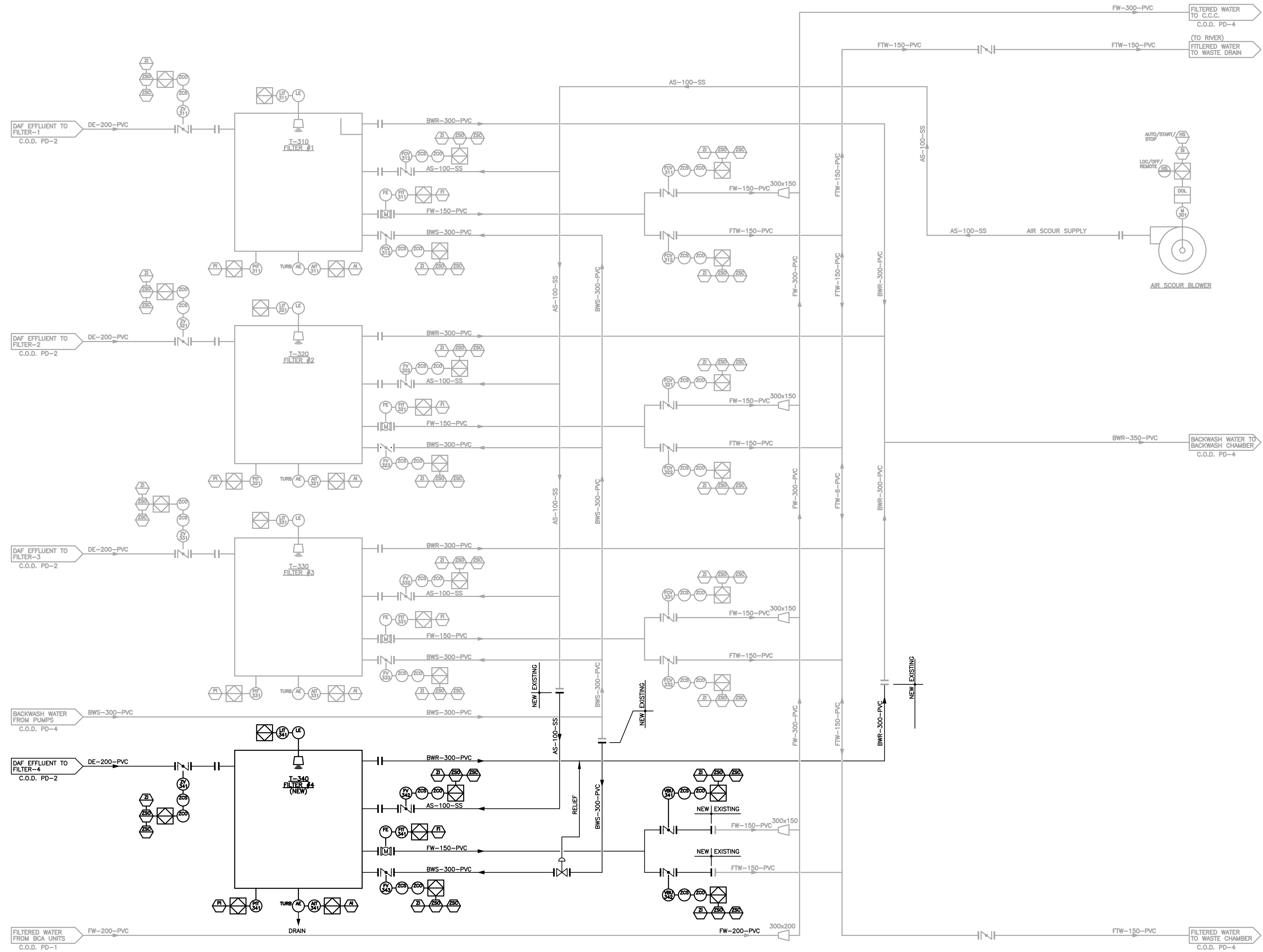
PROJECT NO.
21-1662

DISSOLVED AIR FLOTATION (DAF)

SHEET NO.

PD-2

FILENAME: C:\PW WORKING DIRECTORIES\PROJECTS 2021\OSHA\216662\1662-10-PP-CON.DWG PLOTTED BY: ZORODRAGER, SHANNON
PLOT DATE: 2023-06-04 3:44:23 PM PLOT SCALE: 1/25 * PLOT STYLE: DILLON-STD.AWT,CTB



- GENERAL NOTES:
1. OWNER HAS PRE-PURCHASED A NEW DAF AND FILTRATION SYSTEM FOR INSTALLATION BY THE CONTRACTOR. SHOP DRAWINGS AND SCOPE OF SUPPLY ARE PROVIDED IN THE TENDER DOCUMENTS.
 2. CONTRACTOR IS RESPONSIBLE FOR SATISFYING THEMSELVES ON THE SPECIFIC INTERCONNECTING COMPONENTS OR INSTRUMENTATION NOT INCLUDED IN OWNER SUPPLIED EQUIPMENT.
 3. CONTRACTOR IS RESPONSIBLE FOR SUPPLY AND INSTALLATION OF INTERCONNECTING PIPING AND FITTINGS.
 4. ALL ITEMS LISTED AS "BY OTHERS" (OR SIMILAR) ON THE OWNER SUPPLIED EQUIPMENT SCHEMATICS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

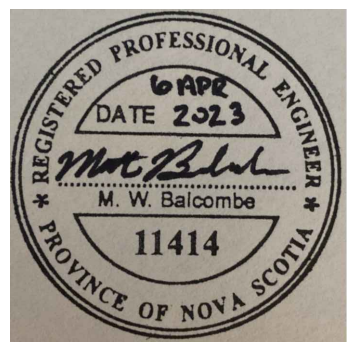
THIS DRAWING HAS BEEN PREPARED BASED ON A BASE DRAWING PREPARED BY OTHERS. DILLON CONSULTING LIMITED CANNOT ASSURE THE ACCURACY OF OTHER'S INFORMATION AND IS NOT RESPONSIBLE FOR THE ACCURACY OF THE DOCUMENT OR FOR ANY ERROR OR OMISSION THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT. CONTRACTOR SHALL VERIFY THE ACCURACY PRIOR TO CONSTRUCTION.

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DESIGN	MWB	REVIEWED BY	DM
DRAWN	SMZ	CHECKED BY	MWB
DATE	APRIL 2023	SCALE	NTS
1	RE-ISSUED FOR TENDER	04/06/2023	MWB
0	ISSUED FOR TENDER	09/06/2022	MWB
No.	ISSUED FOR	DATE	BY

MUNICIPALITY OF EAST HANTS
WATER TREATMENT PLANT UPGRADE

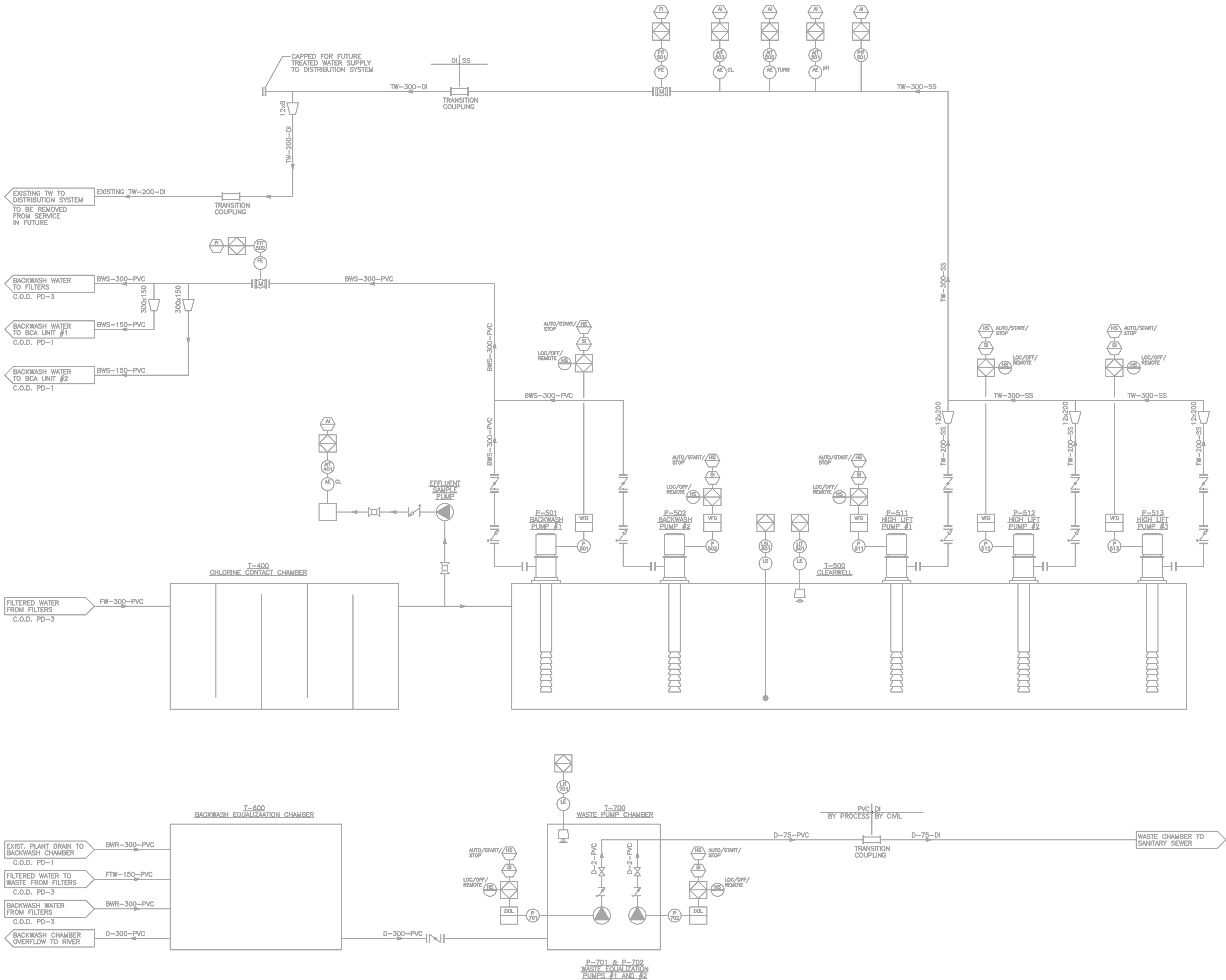
PROJECT NO.
21-1662

SECONDARY FILTRATION

SHEET NO.

PD-3

FILENAME: C:\PW WORKING DIRECTORIES\PROJECTS 2021\05047-DN27000-21-1662-10-PD-CON.DWG PLOTTED BY: ZORODRAGER, SHANNON
PLOT DATE: 2023-04-24 8:34:43 AM PLOT SCALE: 1/25 X PLOT STYLE: DILLON-STD.AWT,CTB



GENERAL NOTES:

1. OWNER HAS PRE-PURCHASED A NEW DAF AND FILTRATION SYSTEM FOR INSTALLATION BY THE CONTRACTOR. SHOP DRAWINGS AND SCOPE OF SUPPLY ARE PROVIDED IN THE TENDER DOCUMENTS.
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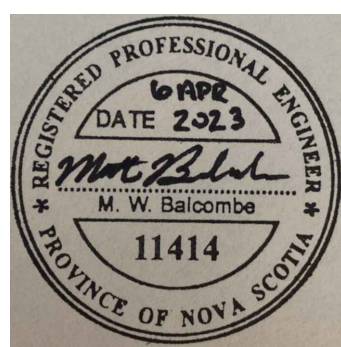
THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY

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No.	ISSUED FOR	DATE	BY
1	RE-ISSUED FOR TENDER	04/06/2023	MWB
0	ISSUED FOR TENDER	09/06/2022	MWB

DESIGN	MWB	REVIEWED BY	DM
DRAWN	SMZ	CHECKED BY	MWB
DATE	APRIL 2023	SCALE	NTS

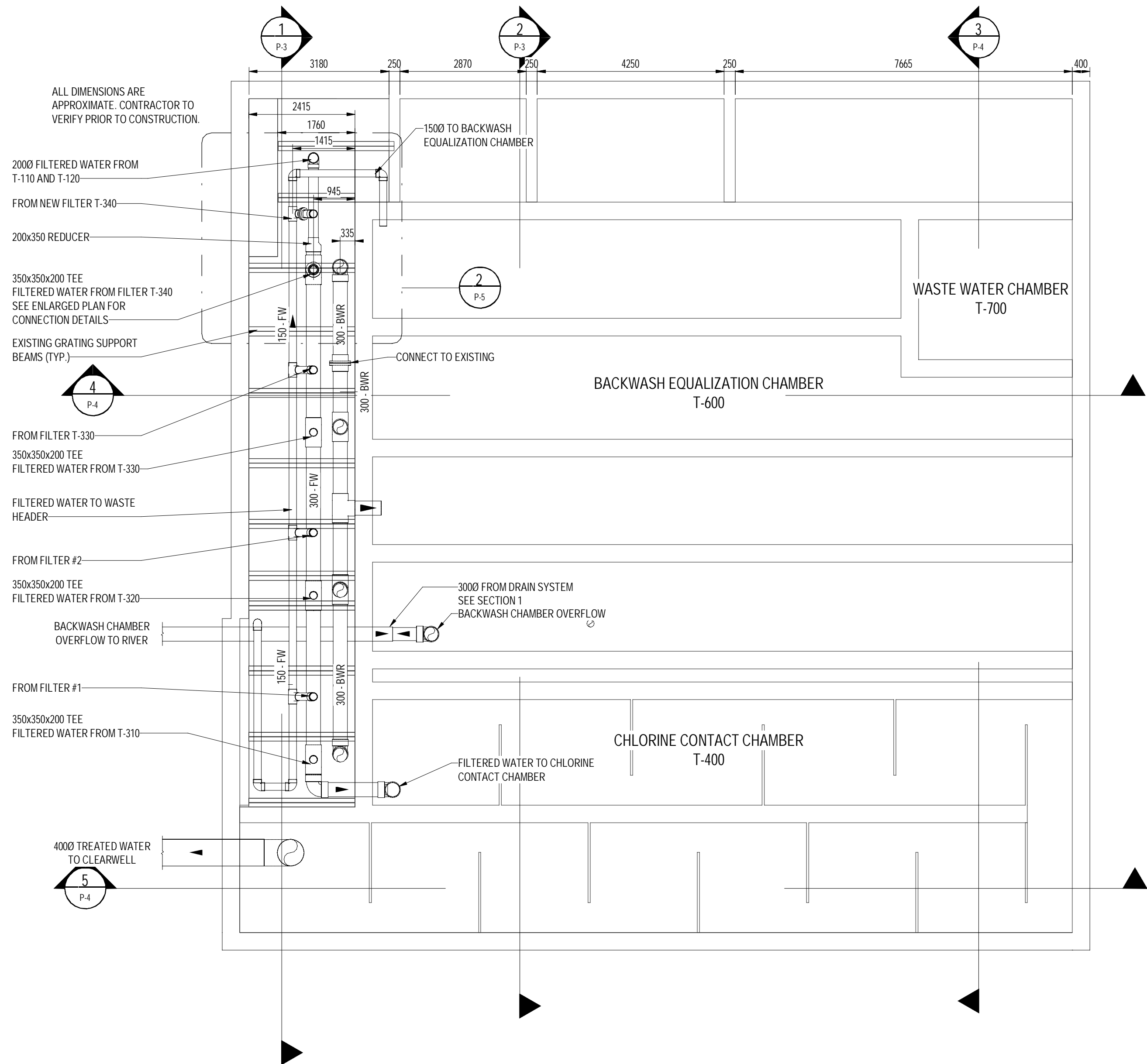
MUNICIPALITY OF EAST HANTS
WATER TREATMENT PLANT UPGRADE

PROJECT NO.
21-1662

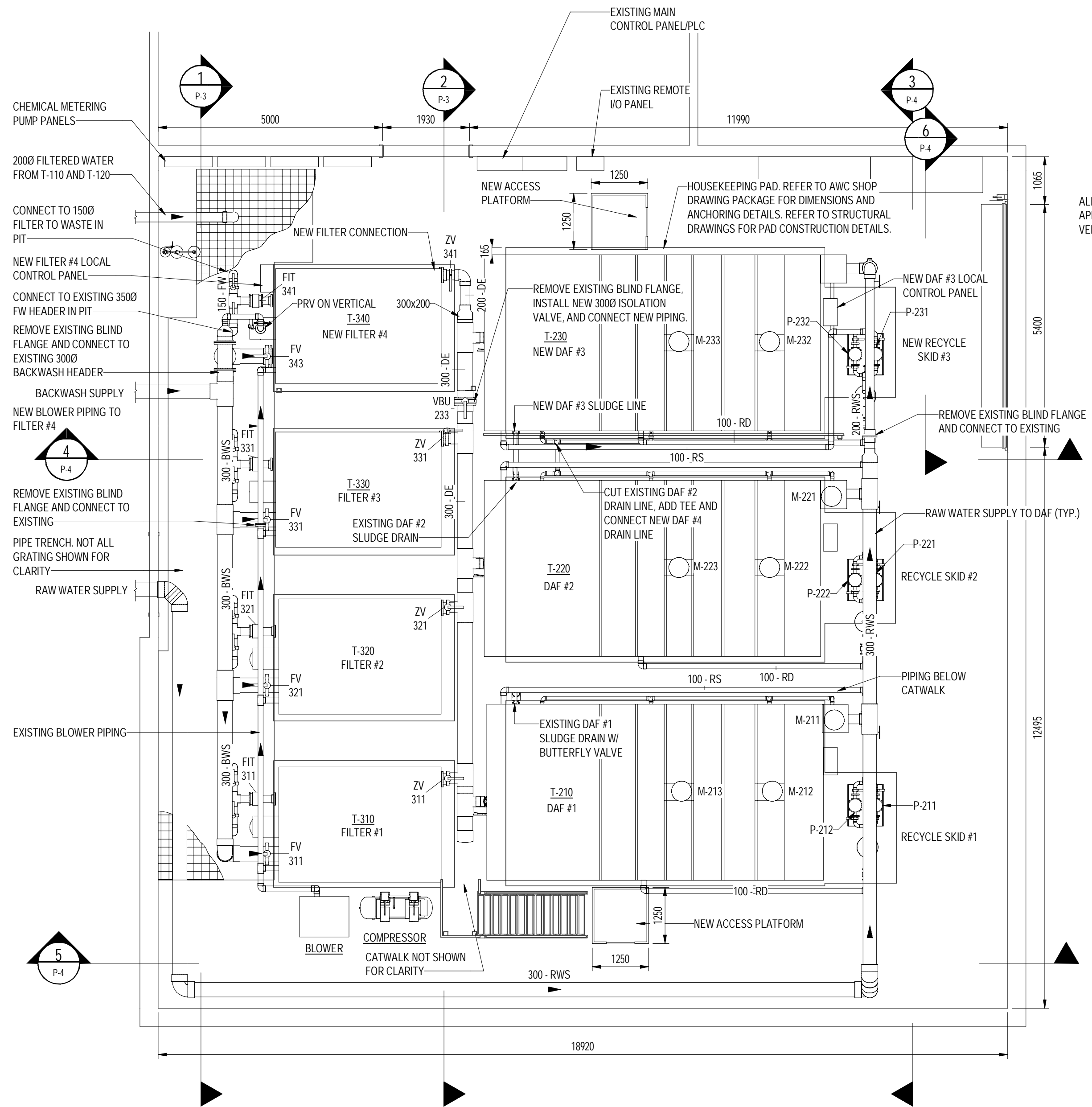
BACKWASH TO WASTE AND DISTRIBUTION

SHEET NO.

PD-4



PLAN AT ELEV. 17.50m
SCALE: 1:75

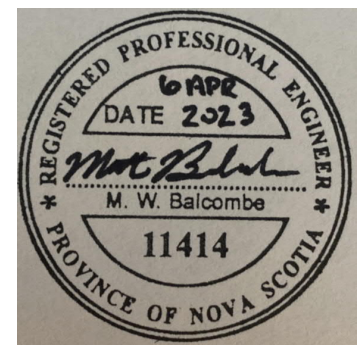


CATWALK NOT SHOWN IN THIS PLAN FOR CLARITY

PLAN AT ELEV. 22.00m
SCALE: 1:75

NOTE:
NEW DAF EQUIPMENT TO BE SUPPLIED BY OWNER. REFER TO SHOP DRAWINGS PROVIDED FOR DETAILS.

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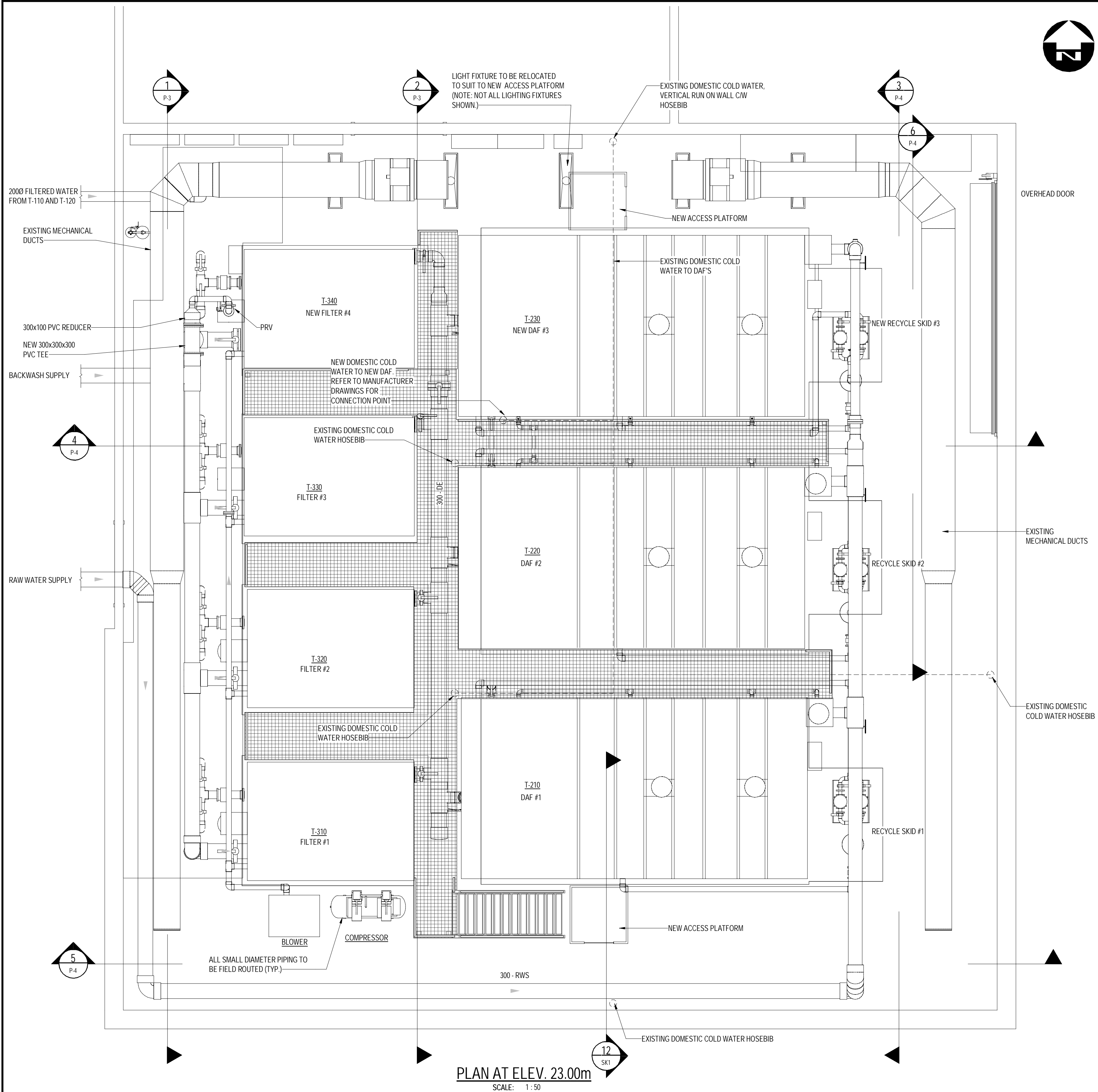
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DRAWN	SMZ	CHECKED BY	ASW
DATE	APRIL 2023		
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0	ISSUED FOR TENDER	09/04/2022	MWB
No.	ISSUED FOR	DATE	BY

MUNICIPALITY OF EAST HANTS
WATER TREATMENT PLANT UPGRADE

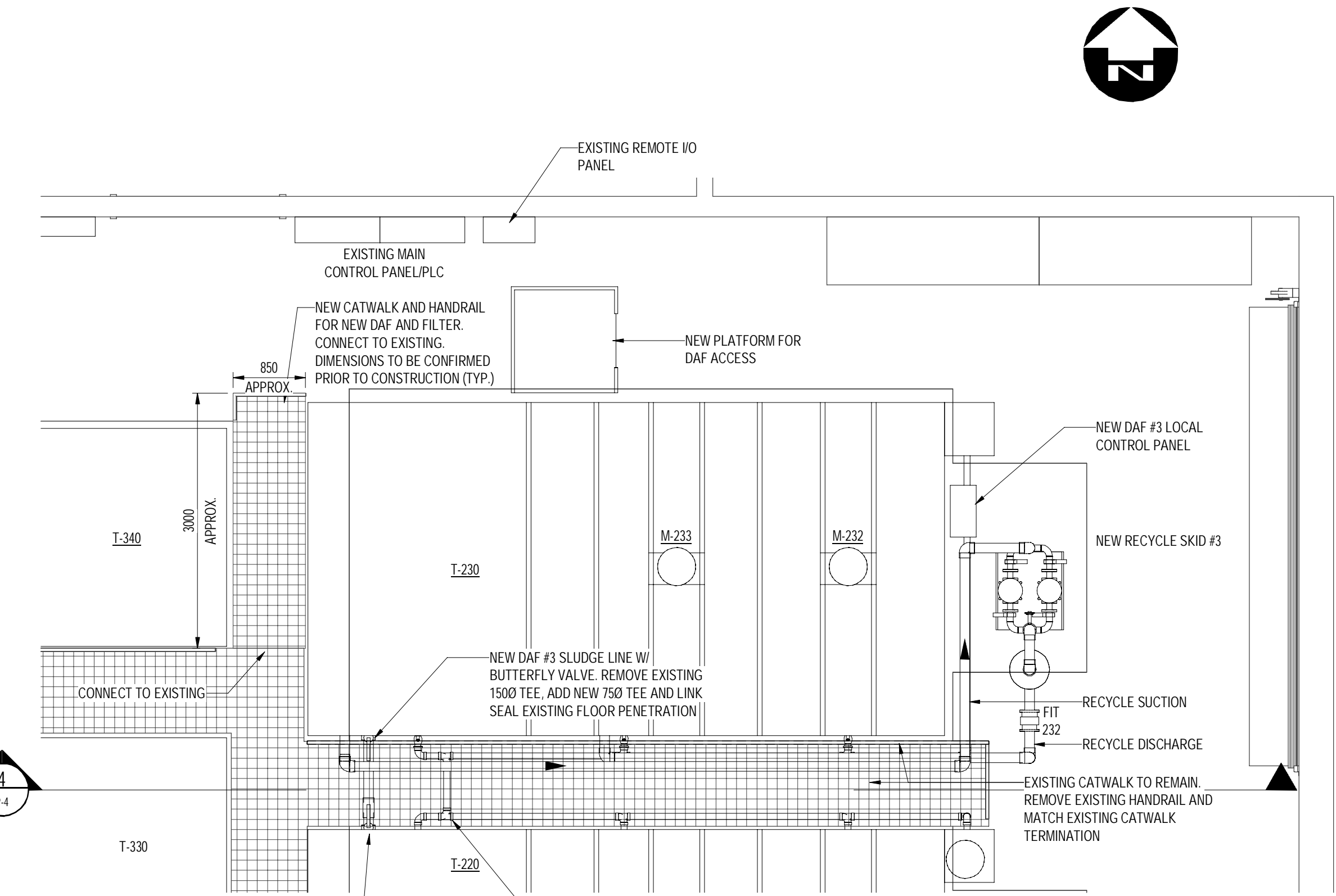
PROCESS EQUIPMENT PLANS

PROJECT NO.
21-1662
SHEET NO.

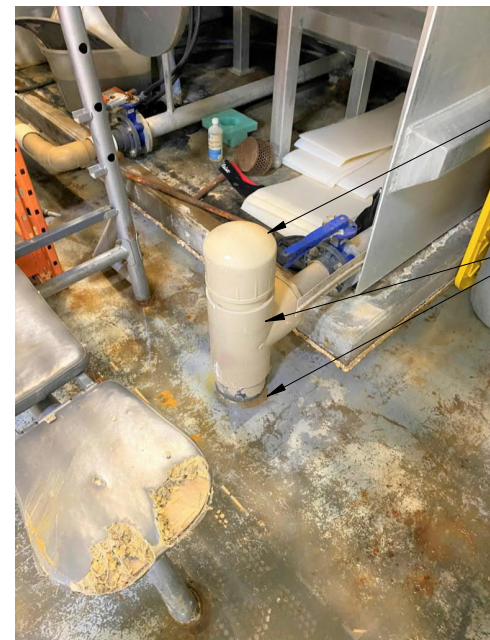
P-1



PLAN AT ELEV. 23.00m
SCALE: 1:50

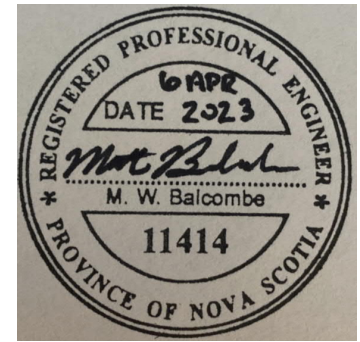


ENLARGED PLAN
SCALE: 1:50



PLT DATE: 2023/04/03 3:36:20 PM
FILE NAME: V:\m027582\211662\00-TPH-CON\01

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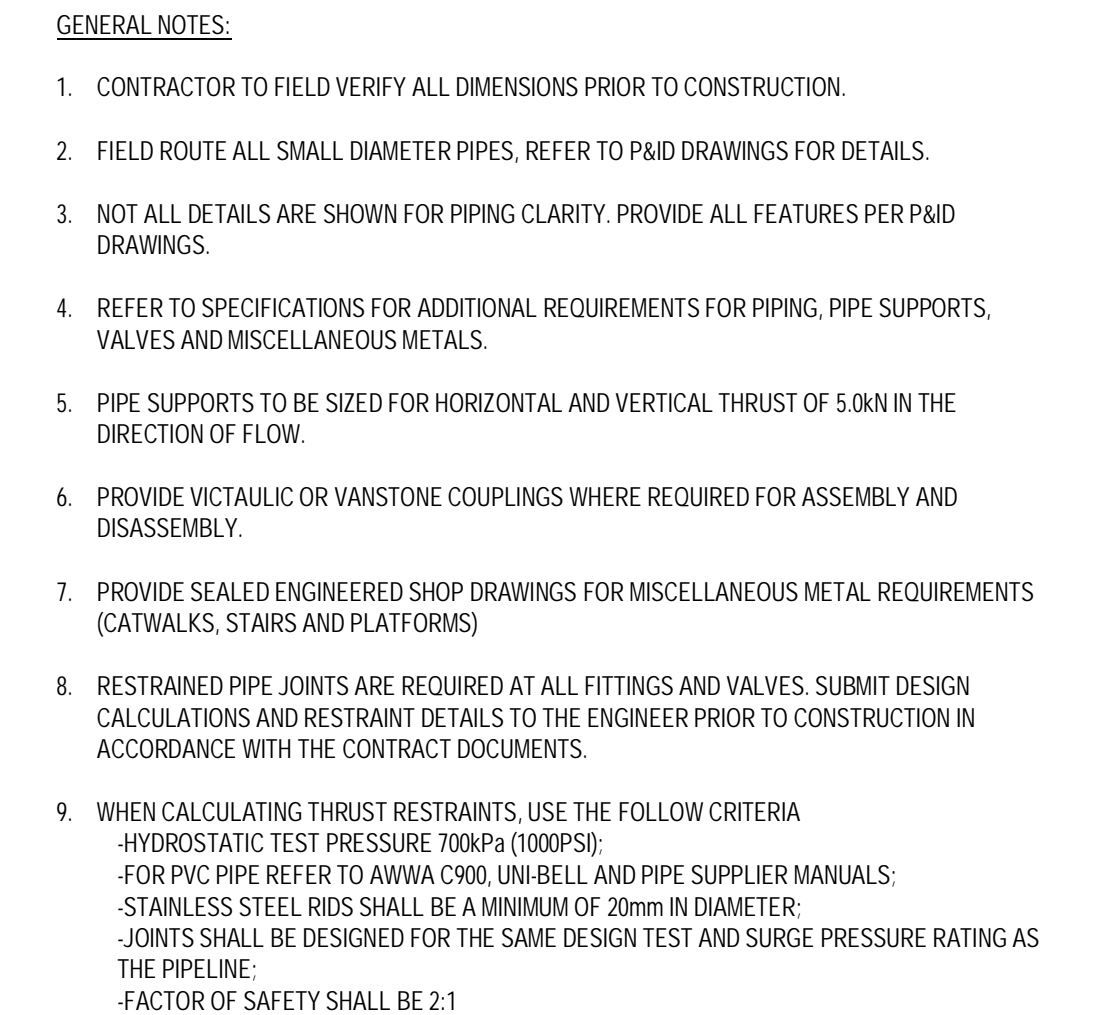
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DRAWN	SMZ	CHECKED BY	ASW
DATE	APRIL 2023		
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1	RE-ISSUED FOR TENDER	04/04/2023	MWB
0	ISSUED FOR TENDER	09/06/2022	MWB
No.	ISSUED FOR	DATE	BY

MUNICIPALITY OF EAST HANTS
WATER TREATMENT PLANT UPGRADE

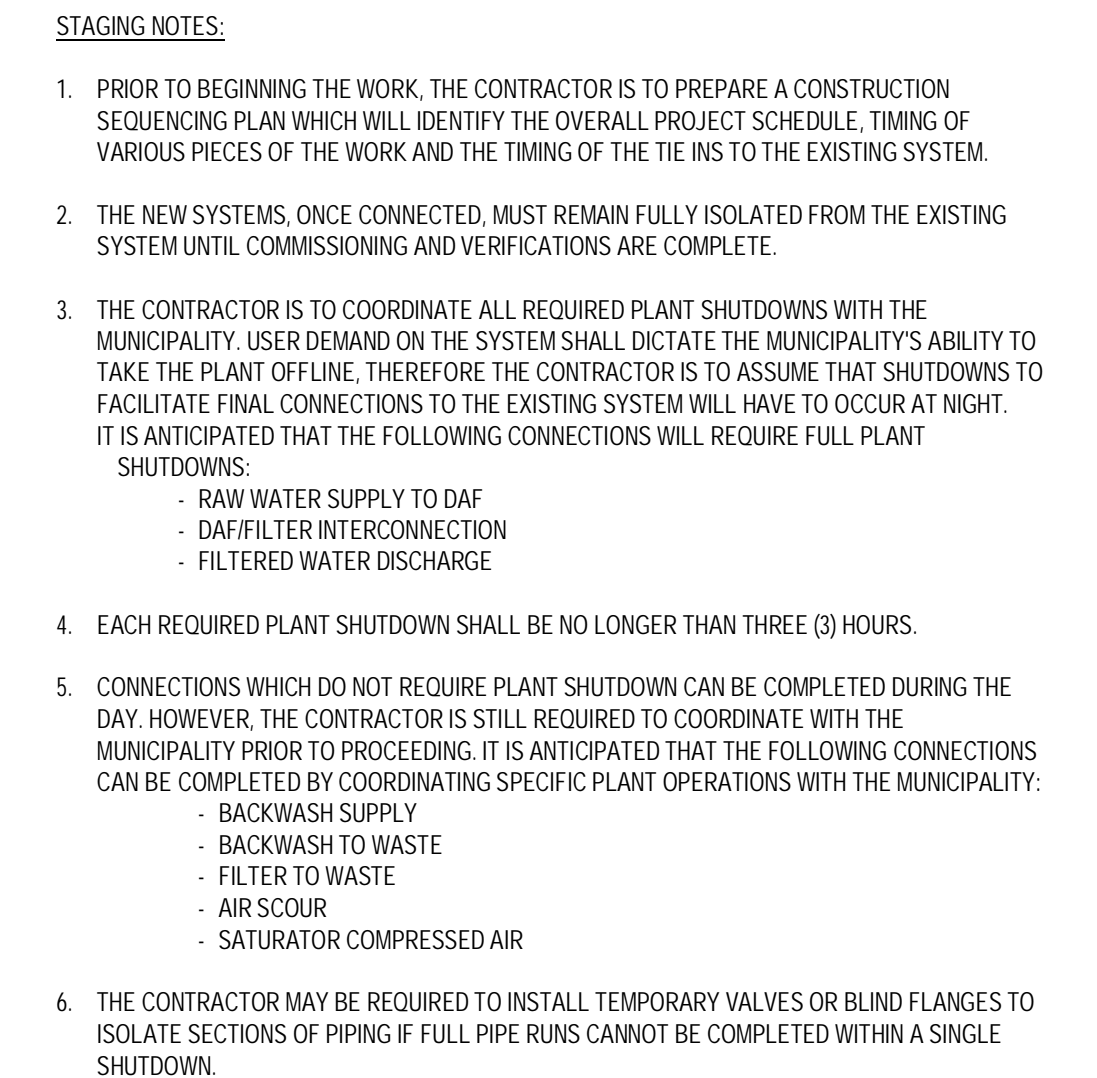
PROCESS EQUIPMENT PLANS

PROJECT NO.
21-1662
SHEET NO.

P-2

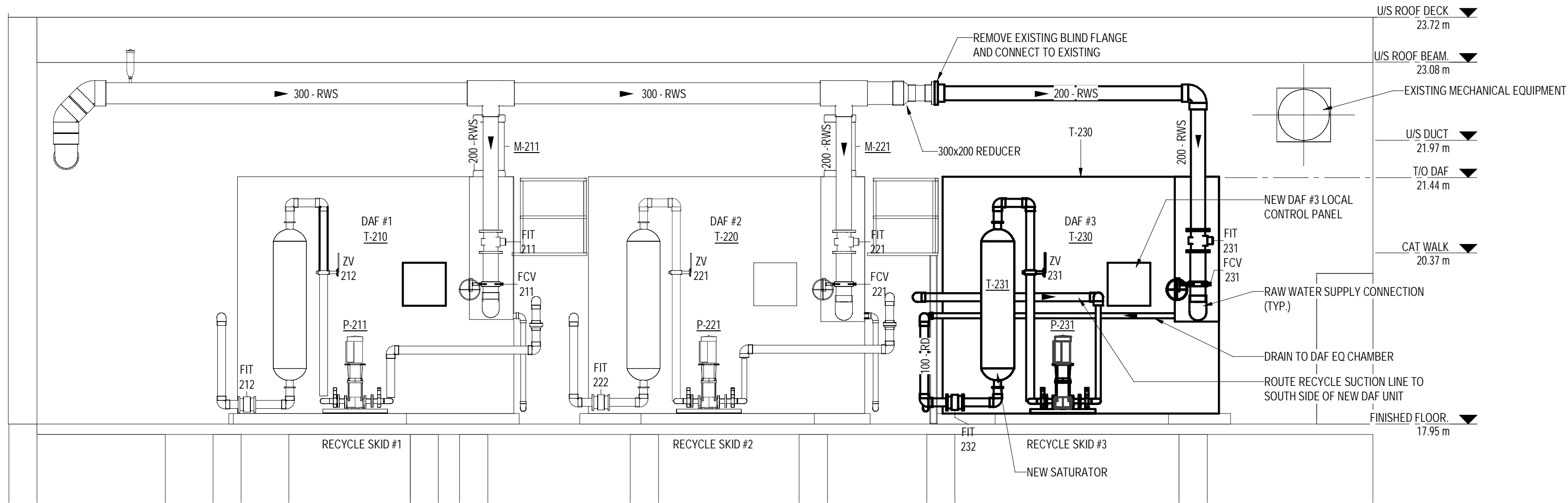


SCALE: 1 : 50

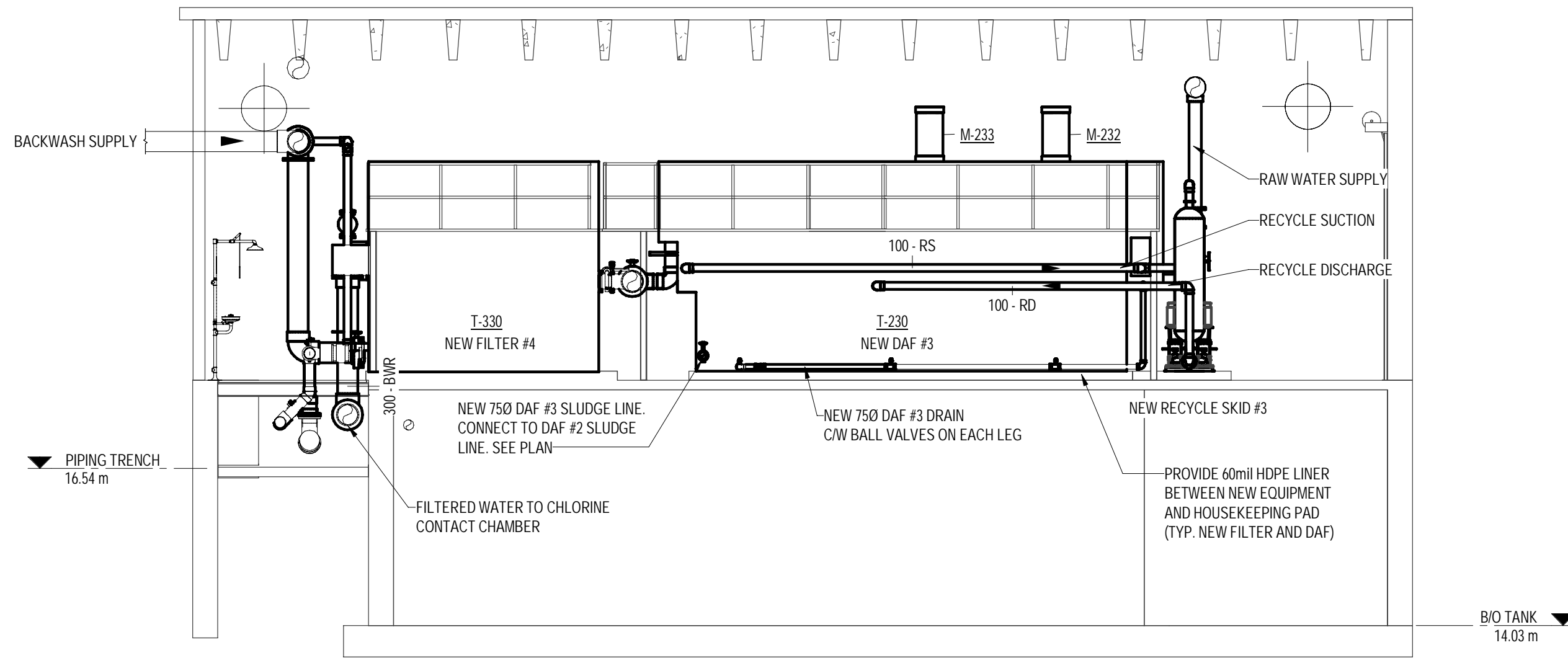


SCALE: 1 : 50

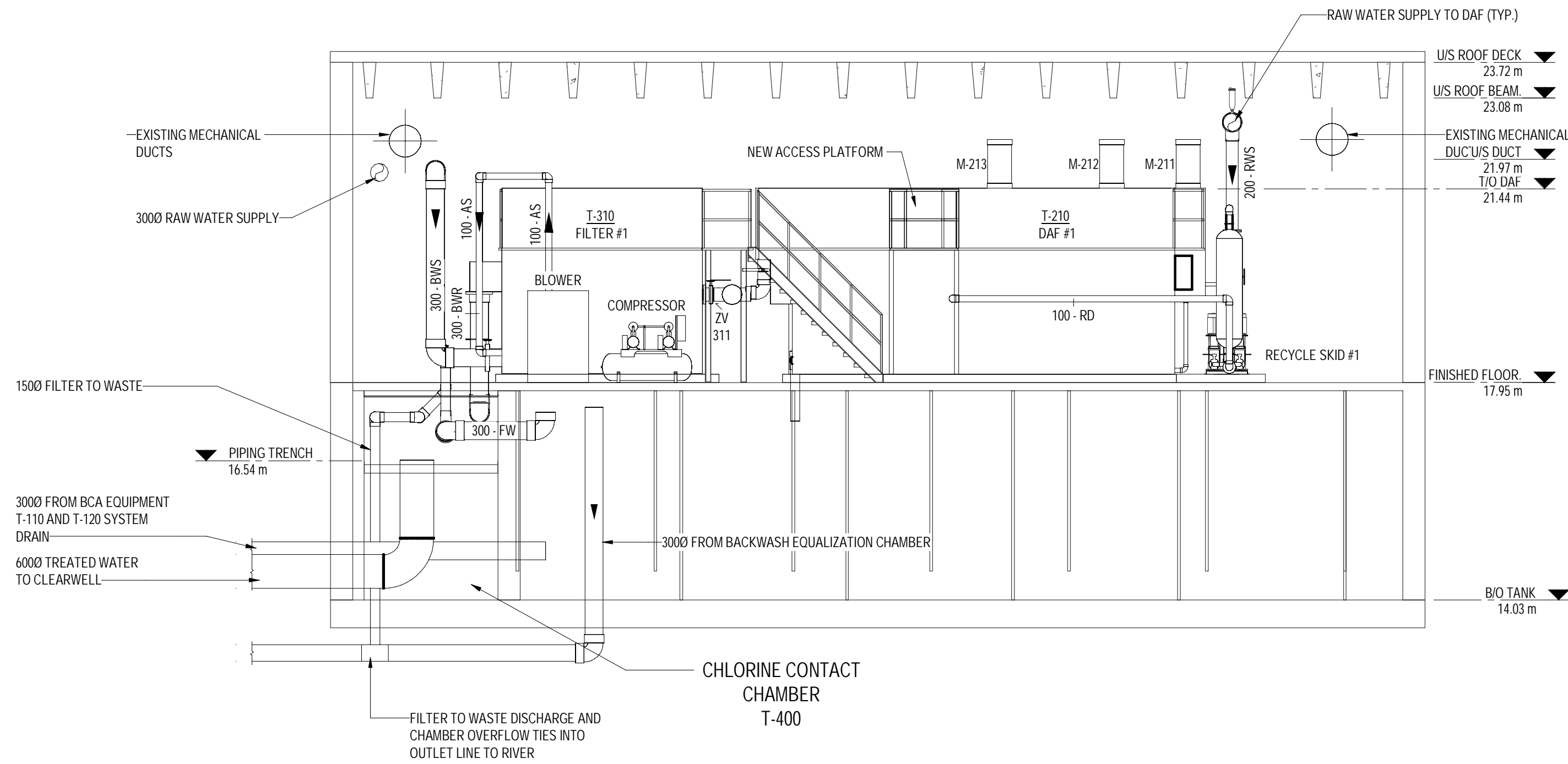
<div>Conditions of Use</div> <div>Verify elevations and/or dimensions on drawing prior to use. Report any discrepancies to Dillon Consulting Limited.</div> <div>Do not scale dimensions from drawing.</div> <div>Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior written permission from Dillon Consulting Limited.</div>		<div>NOT FOR CONSTRUCTION</div>	 <div>EAST HANTS</div>	 <div>DILLON CONSULTING</div>	<div></div>	<div></div>	<div></div>	<div></div>	<div>DESIGN</div> <div>MWB</div>	<div>REVIEWED BY</div> <div>MWB</div>	<div>MUNICIPALITY OF EAST HANTS WATER TREATMENT PLANT UPGRADE</div>	<div>PROJECT NO.</div> <div>21-1662</div>		
					<div></div>	<div></div>	<div></div>	<div></div>	<div>DRAWN</div> <div>SMZ</div>	<div>CHECKED BY</div> <div>ASW</div>			<div>PROCESS EQUIPMENT SECTIONS AND NOTES</div>	<div>SHEET NO.</div> <div>P-3</div>
					<div></div>	<div></div>	<div></div>	<div></div>	<div>DATE</div> <div>APRIL 2023</div>					
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<div>No.</div>	<div>ISSUED FOR</div>	<div>DATE</div>	<div>BY</div>											



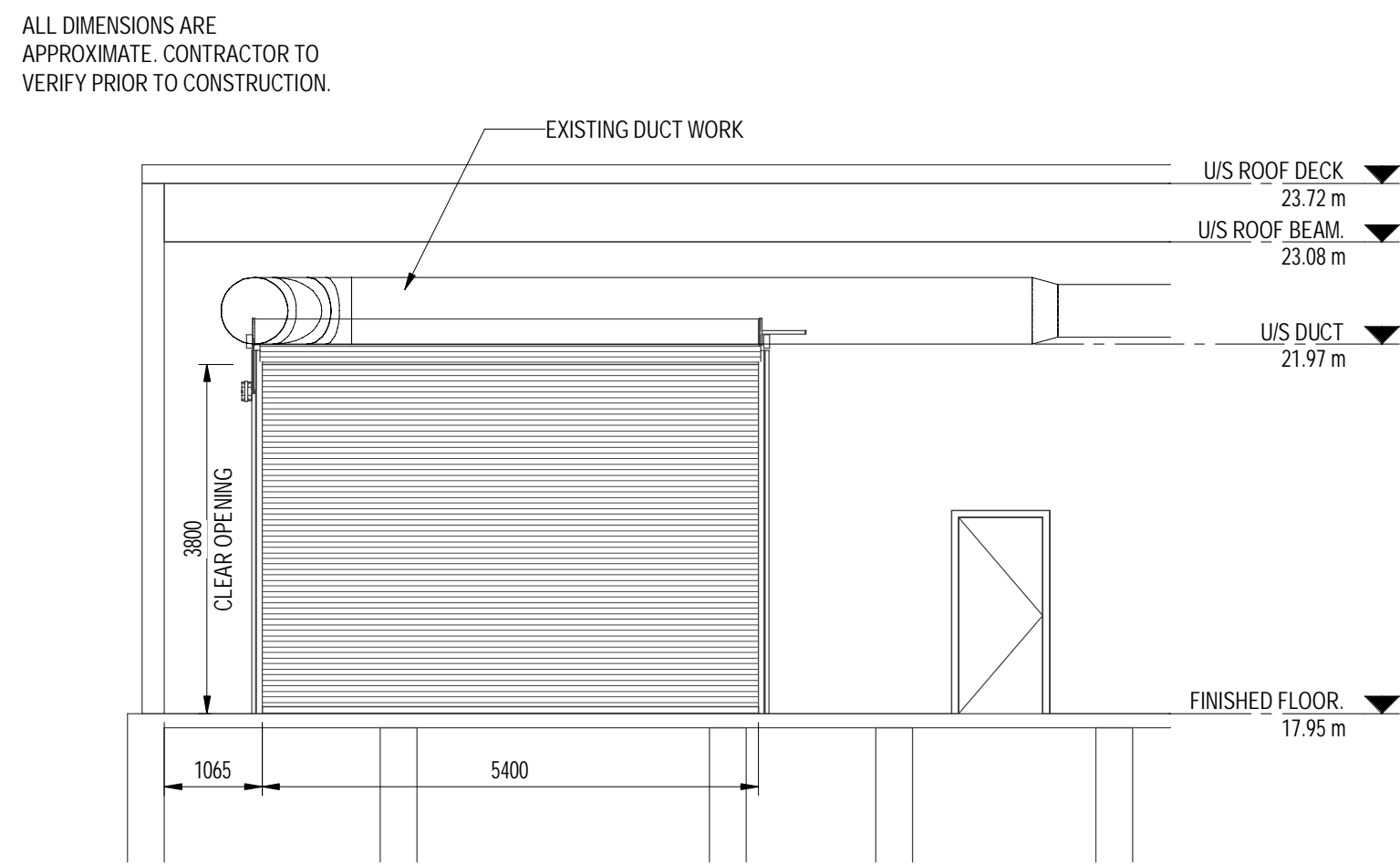
SECTION 3 - RECYCLE SKIDS
SCALE: 1:50



SECTION 4
SCALE: 1:75

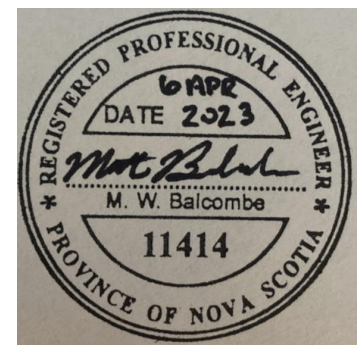


SECTION 5
SCALE: 1:75



SECTION 6 - EXISTING OVERHEAD DOOR
SCALE: 1:75

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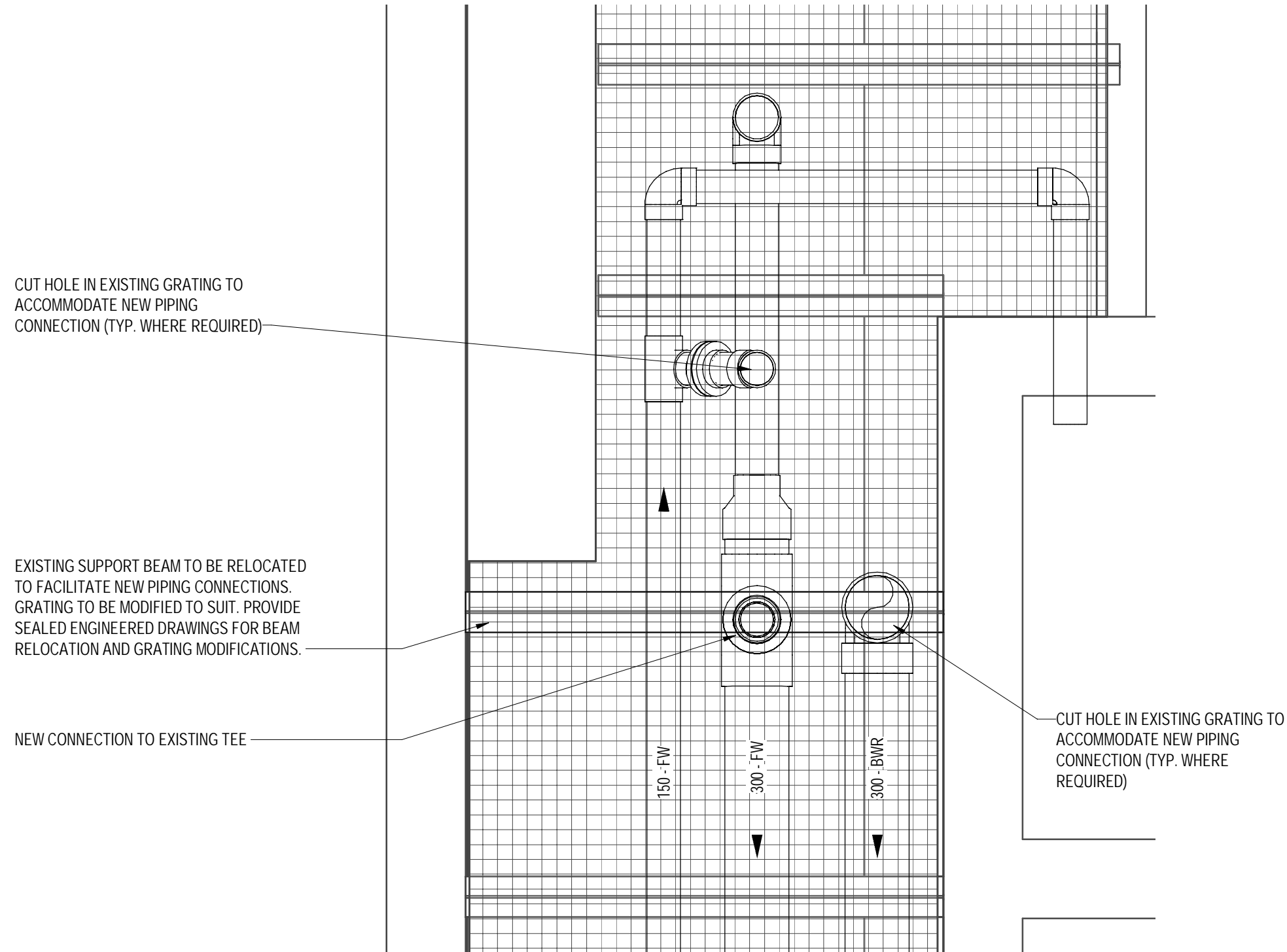
NOT FOR CONSTRUCTION



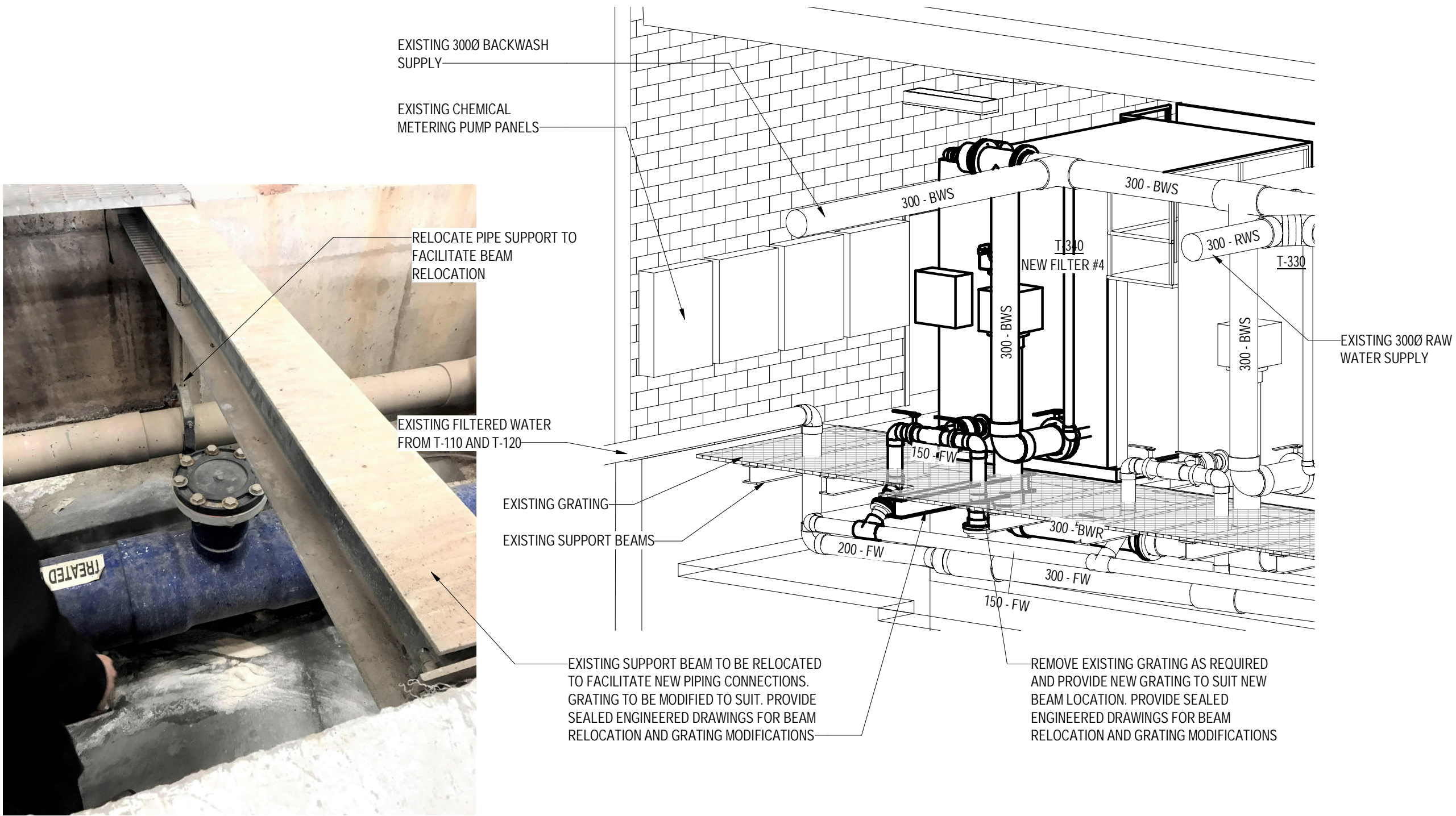
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0	ISSUED FOR TENDER	09/06/2022	MWB		
No.	ISSUED FOR	DATE	BY		

DESIGN	MWB	REVIEWED BY	MWB
DRAWN	SMZ	CHECKED BY	ASW
DATE	APRIL 2023		

MUNICIPALITY OF EAST HANTS WATER TREATMENT PLANT UPGRADE	PROJECT NO. 21-1662
PROCESS EQUIPMENT SECTIONS	SHEET NO. P-4



2 PLAN AT ELEV. 17.50m - ENLARGED PLAN
P-1 SCALE: 1 : 25

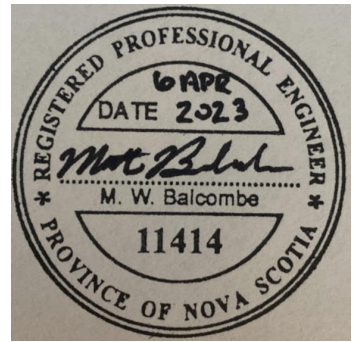


BEAM AND GRATING MODIFICATIONS
SCALE:

PLT DATE: 2023/04/04 3:36:24 PM
FILE NAME: V:\m627582\21166260-TPPL-CONV1

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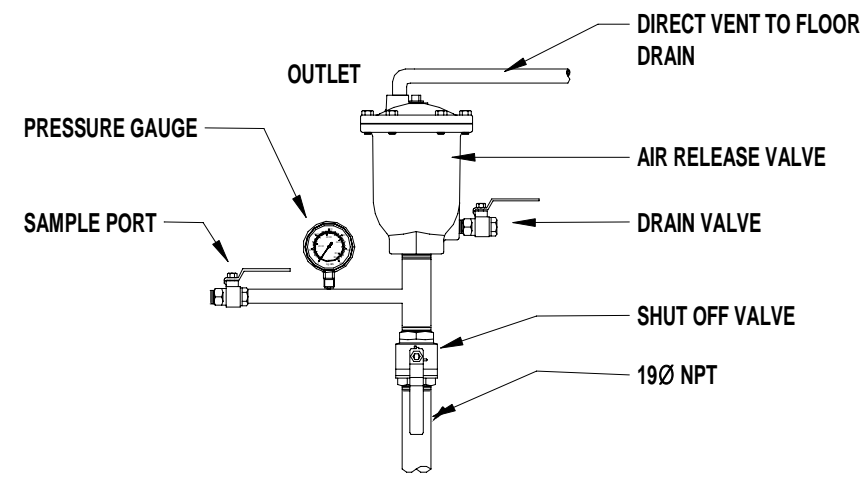
NOT FOR CONSTRUCTION



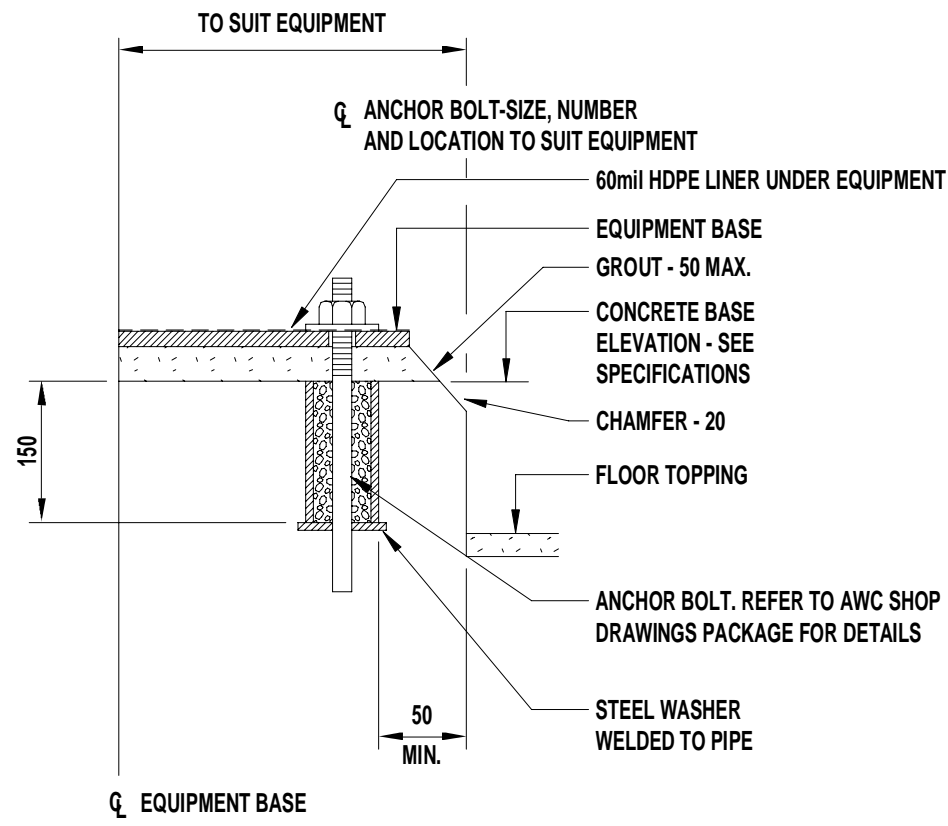
No.	ISSUED FOR	DATE	BY
1	RE-ISSUED FOR TENDER	04/06/2023	MWB
0	ISSUED FOR TENDER	09/06/2022	MWB

DESIGN	MWB	REVIEWED BY	MWB
DRAWN	SMZ	CHECKED BY	ASW
DATE	APRIL 2023		
SCALE	1 : 25		

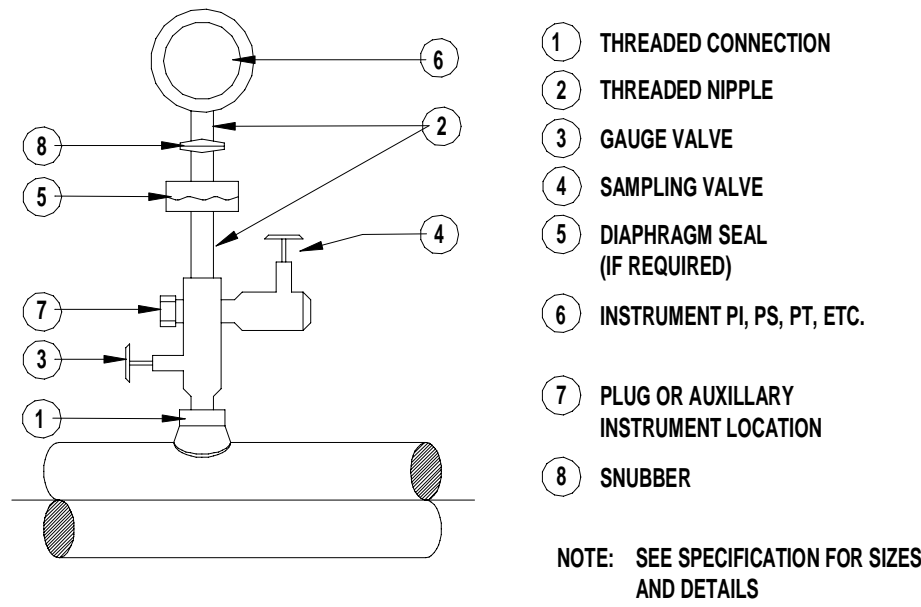
MUNICIPALITY OF EAST HANTS WATER TREATMENT PLANT UPGRADE		PROJECT NO. 21-1662
BEAM AND GRATING MODIFICATIONS		SHEET NO. P-5



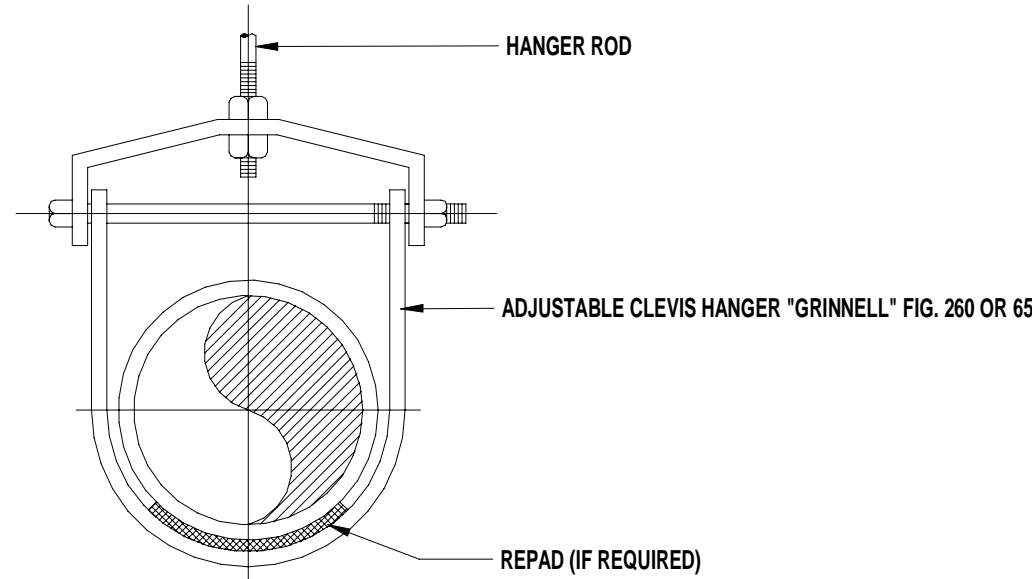
AIR RELIEF VALVE



TYPICAL EQUIPMENT BASE

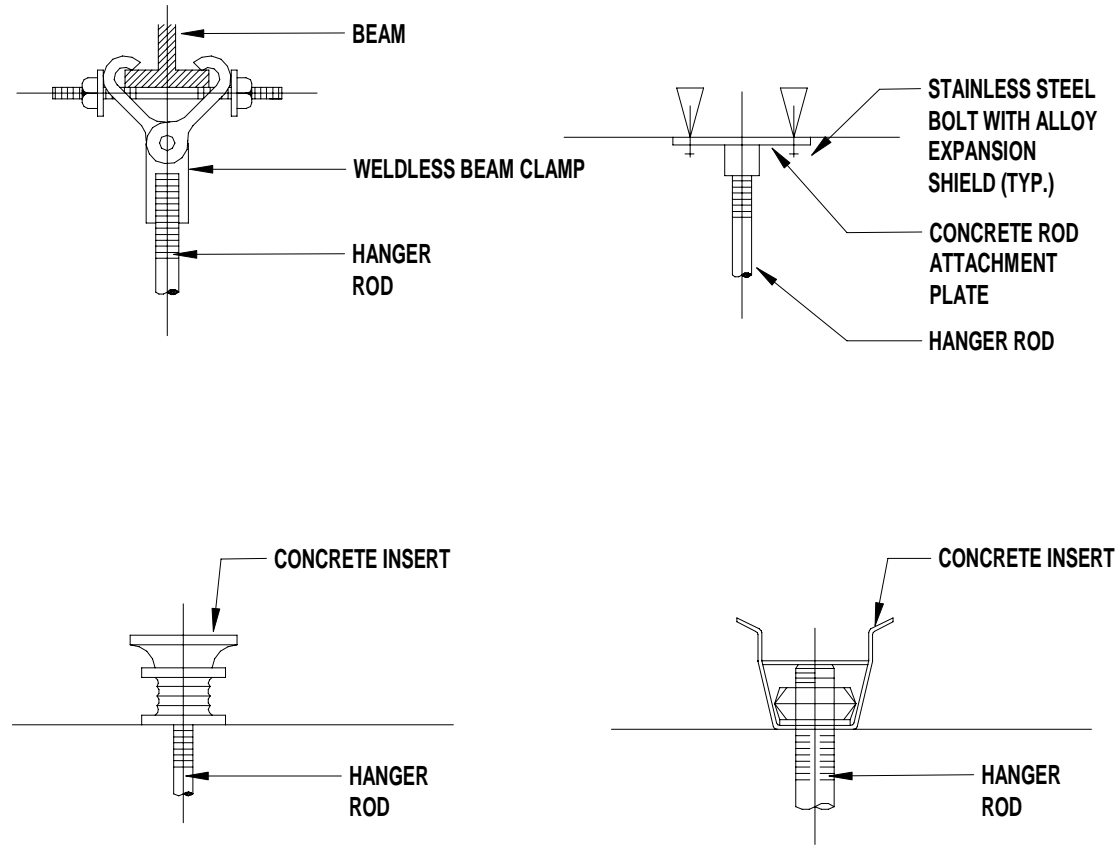


TYPICAL INSTRUMENT INSTALLATION

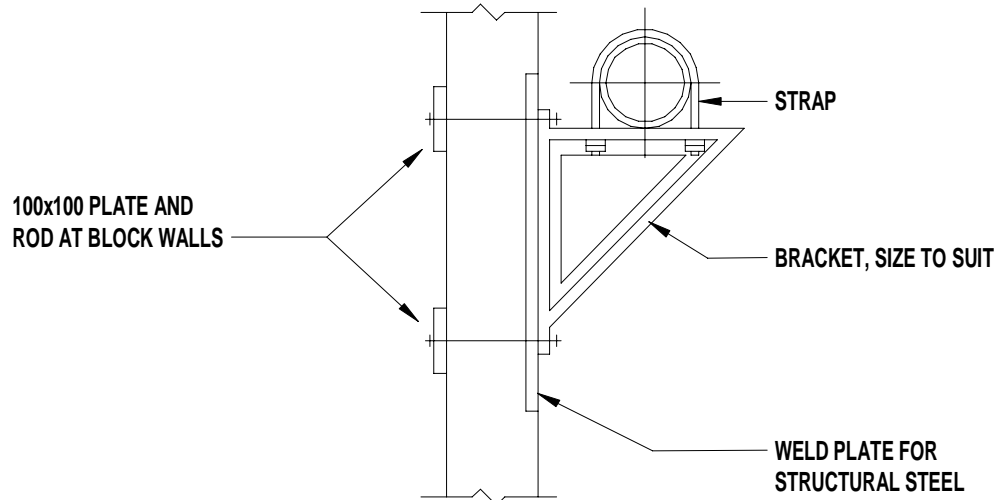


PIPE HANGER SCHEDULE			
PIPE SIZE (Ø)	ROD SIZE (Ø)	MAXIMUM SPACING	MAXIMUM LOAD (kg)
THRU 25	9	2440	180
32 THRU 50	9	3050	180
63 THRU 89	13	3660	475
100 & 125	16	4875	650
150	19	4875	880
200 THRU 300	22	6100	1360
350 & 400	25	6100	1475
450 & 500	32	6100	2180
600 & 900	38	7620	2180

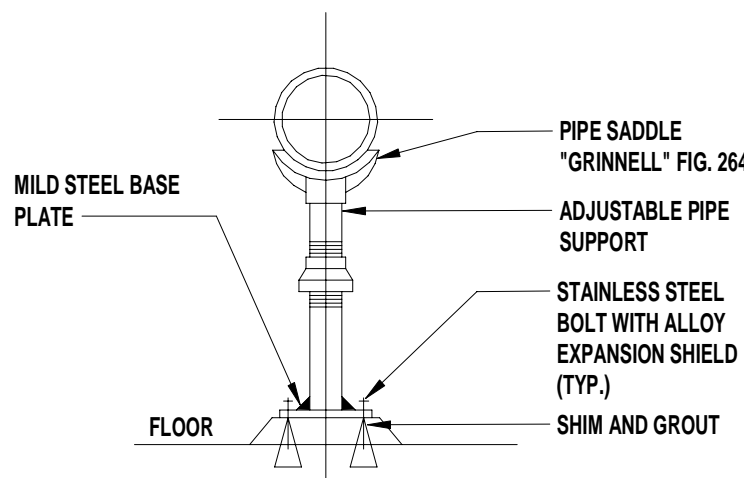
- NOTE:
- CONTRACTOR SHALL DETERMINE APPROPRIATE METHOD OF ATTACHMENT TO CEILING.
 - SCHEDULED DATA MAY ALSO BE USED FOR TRAPEZE HANGER SELECTION WITH EACH ROD NOT TO EXCEED MAXIMUM LOAD.
 - CONTRACTOR SHALL ENSURE THAT EACH LINE IS ADEQUATELY SUPPORTED BEFORE COMMENCING TRIAL OPERATION.



PIPE HANGER SUPPORTS



TYPICAL BRACKET SUPPORT



ADJUSTABLE PIPE SUPPORT

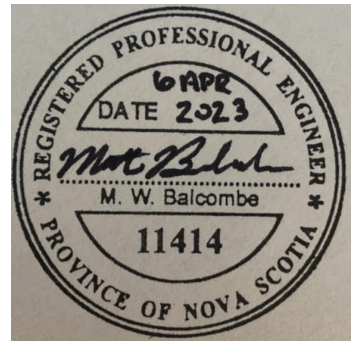
PIPE HANGER SUPPORT

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DESIGN	MWB	REVIEWED BY	MWB
DRAWN	SMZ	CHECKED BY	ASW
DATE	APRIL 2023		
SCALE	1 : 25		
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0	ISSUED FOR TENDER	09/04/2022	MWB
No.	ISSUED FOR	DATE	BY

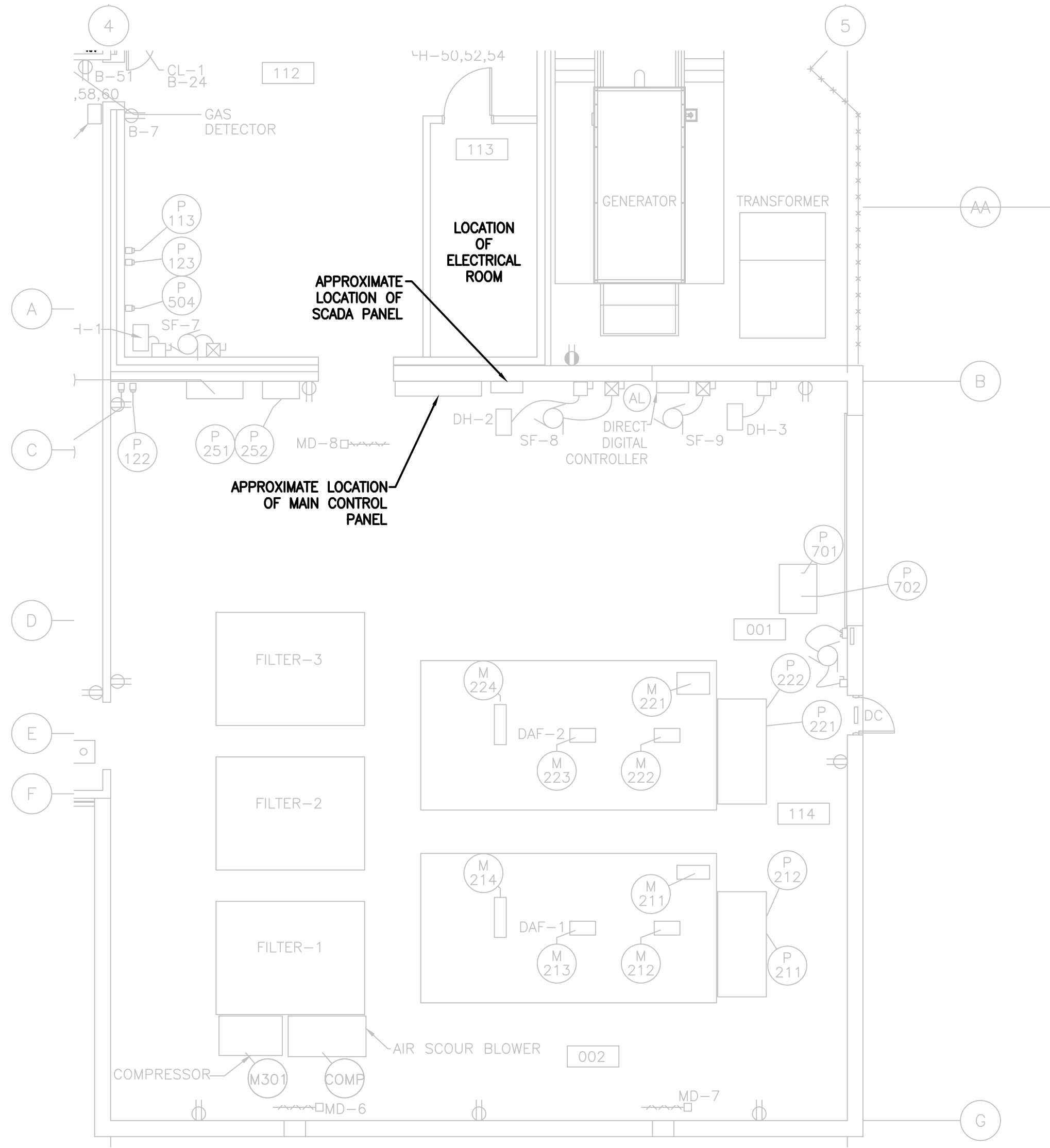
MUNICIPALITY OF EAST HANTS
WATER TREATMENT PLANT UPGRADE

PROJECT NO.
21-1662

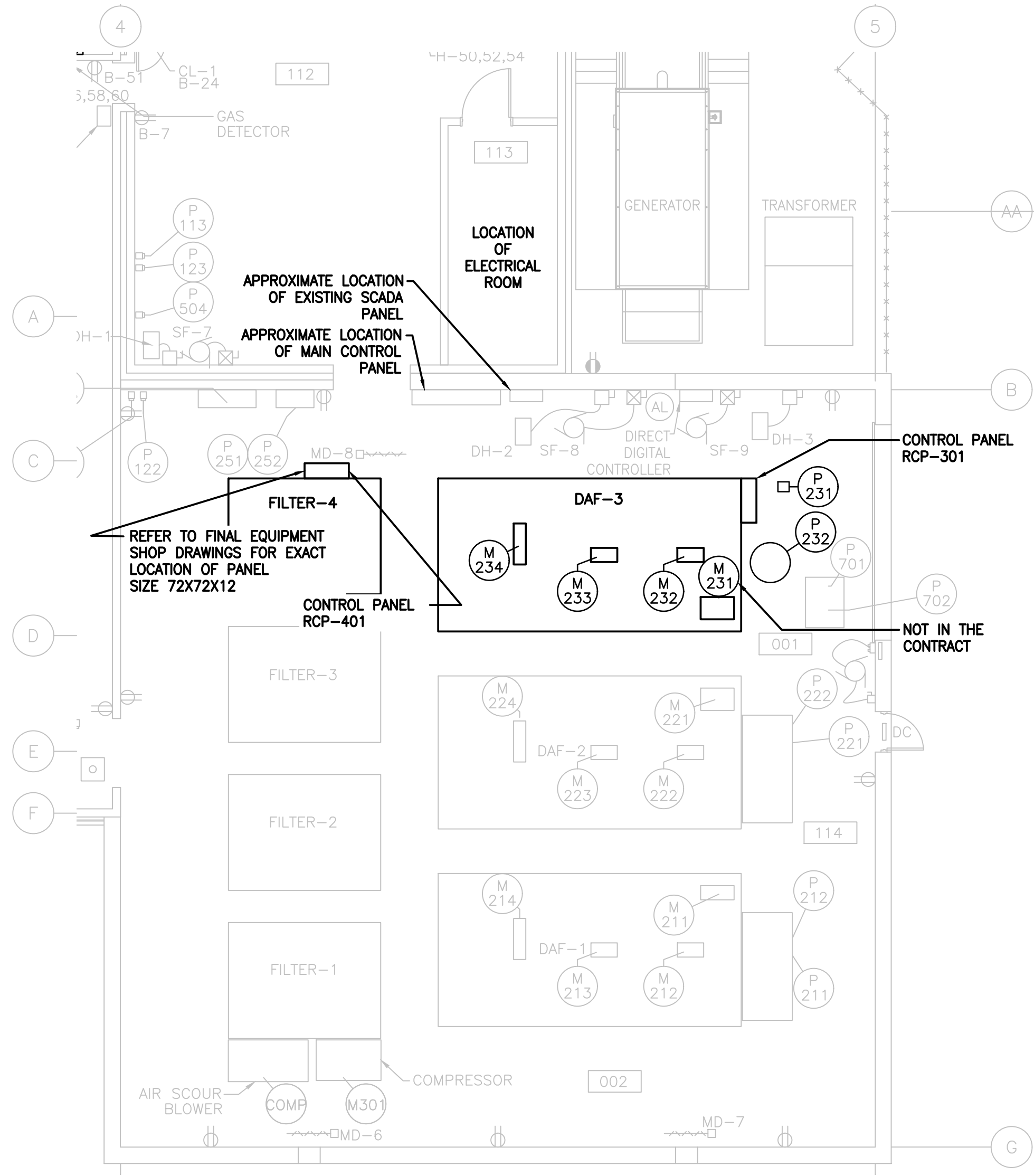
MISCELLANEOUS DETAILS

SHEET NO.

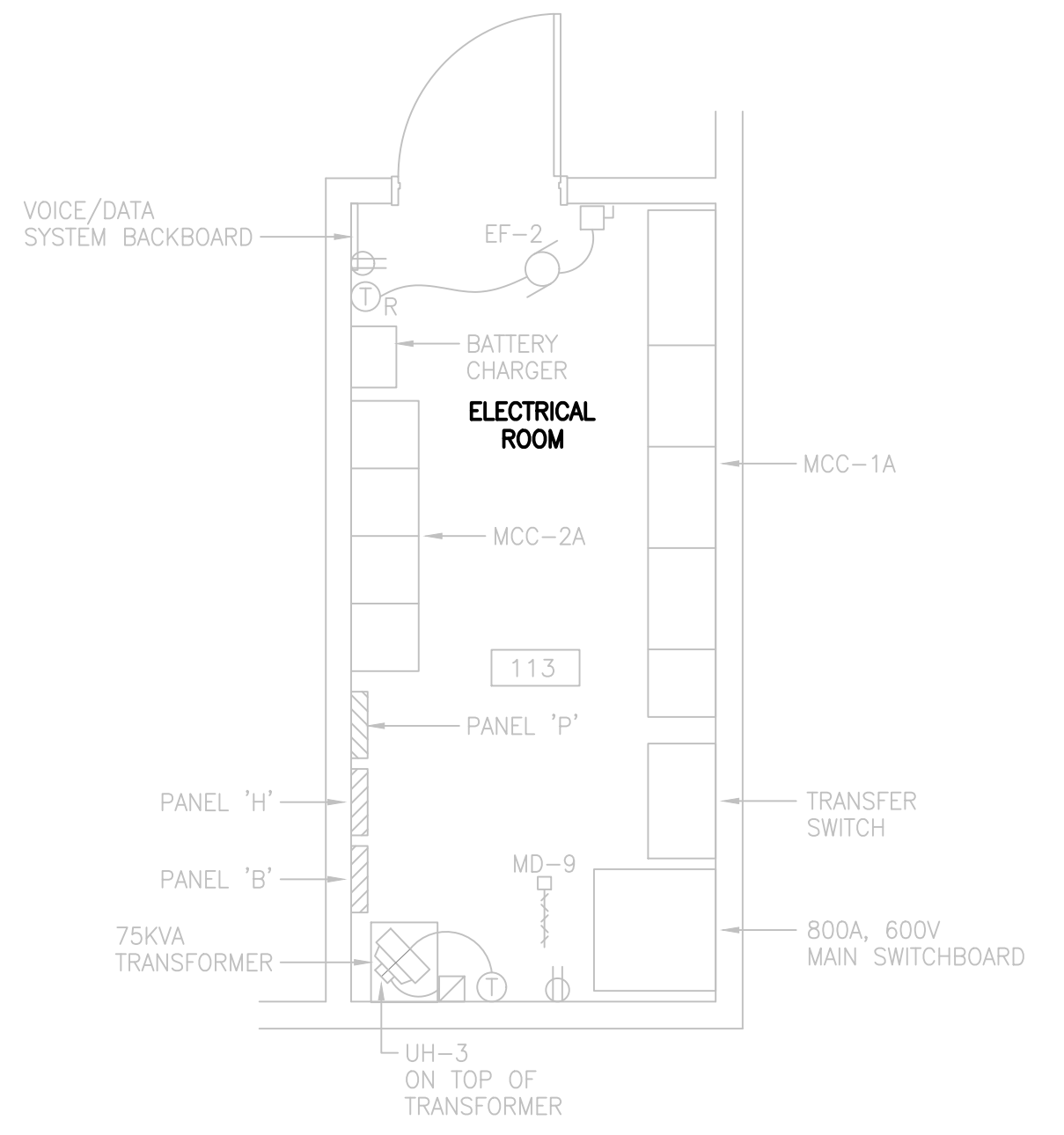
P-6



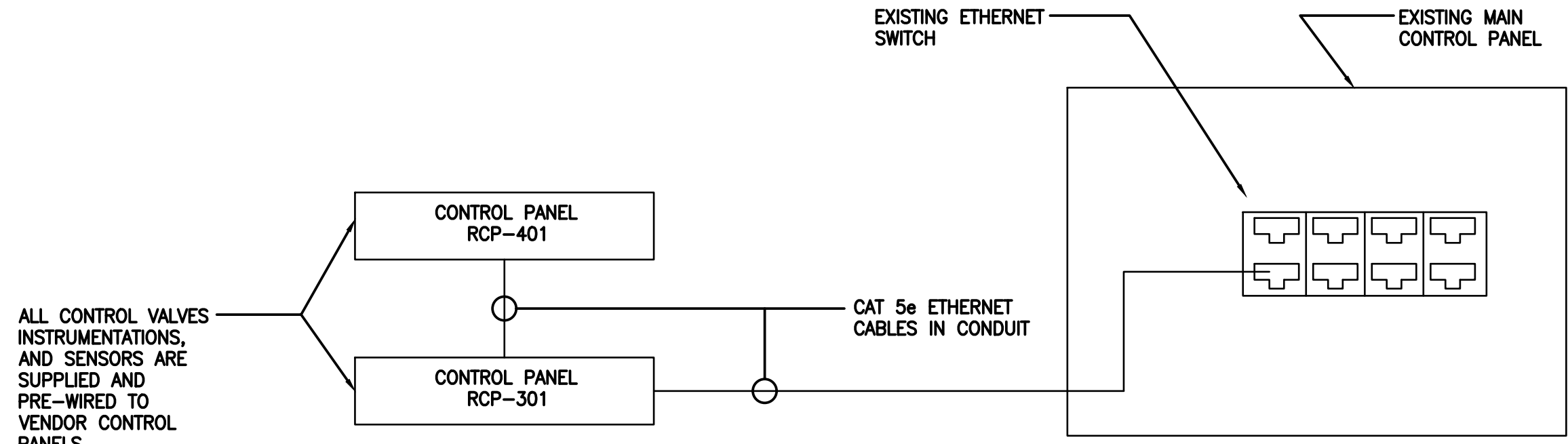
DEMO LAYOUT OF PROCESS ROOM **1**
SCALE 1:100
E2



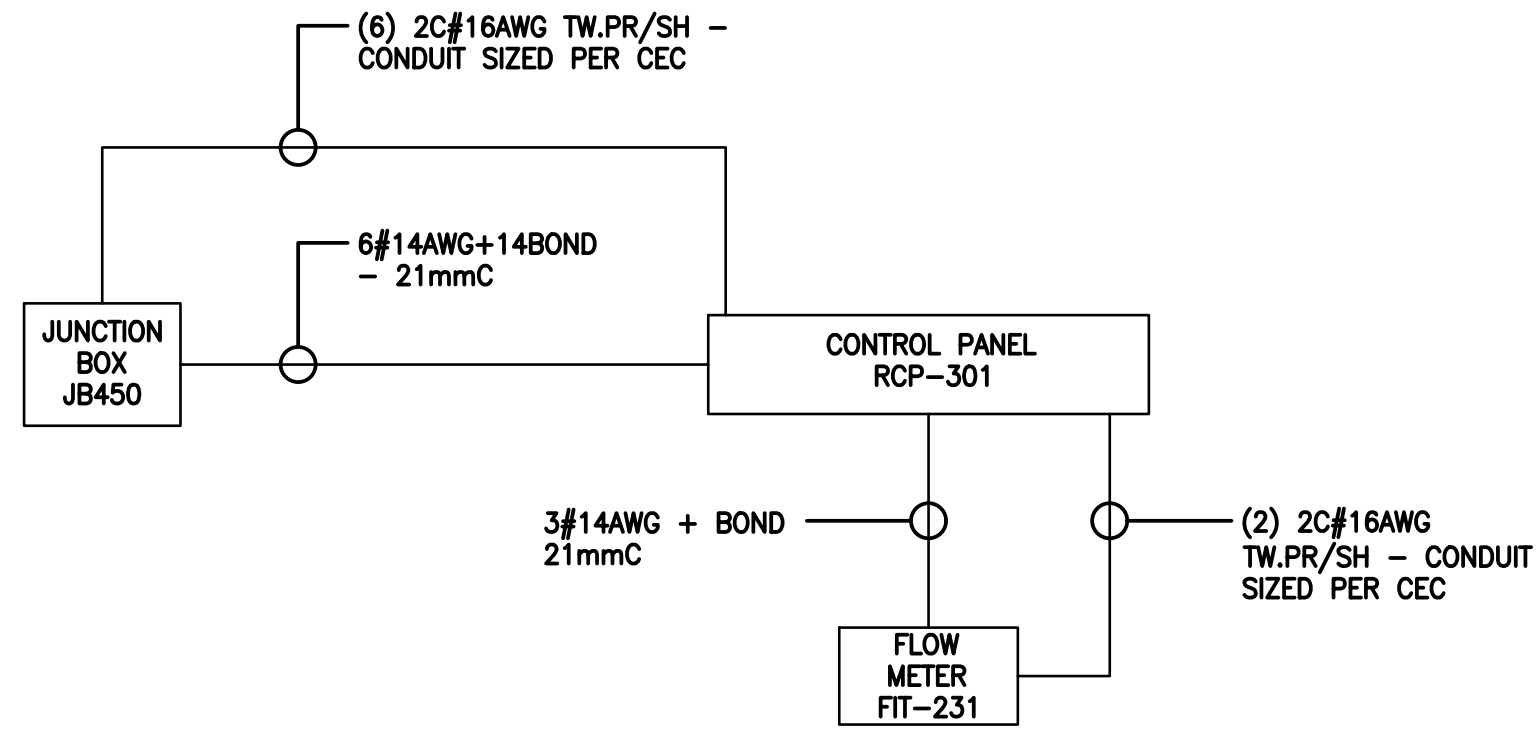
NEW LAYOUT OF PROCESS ROOM **2**
SCALE 1:100
E2



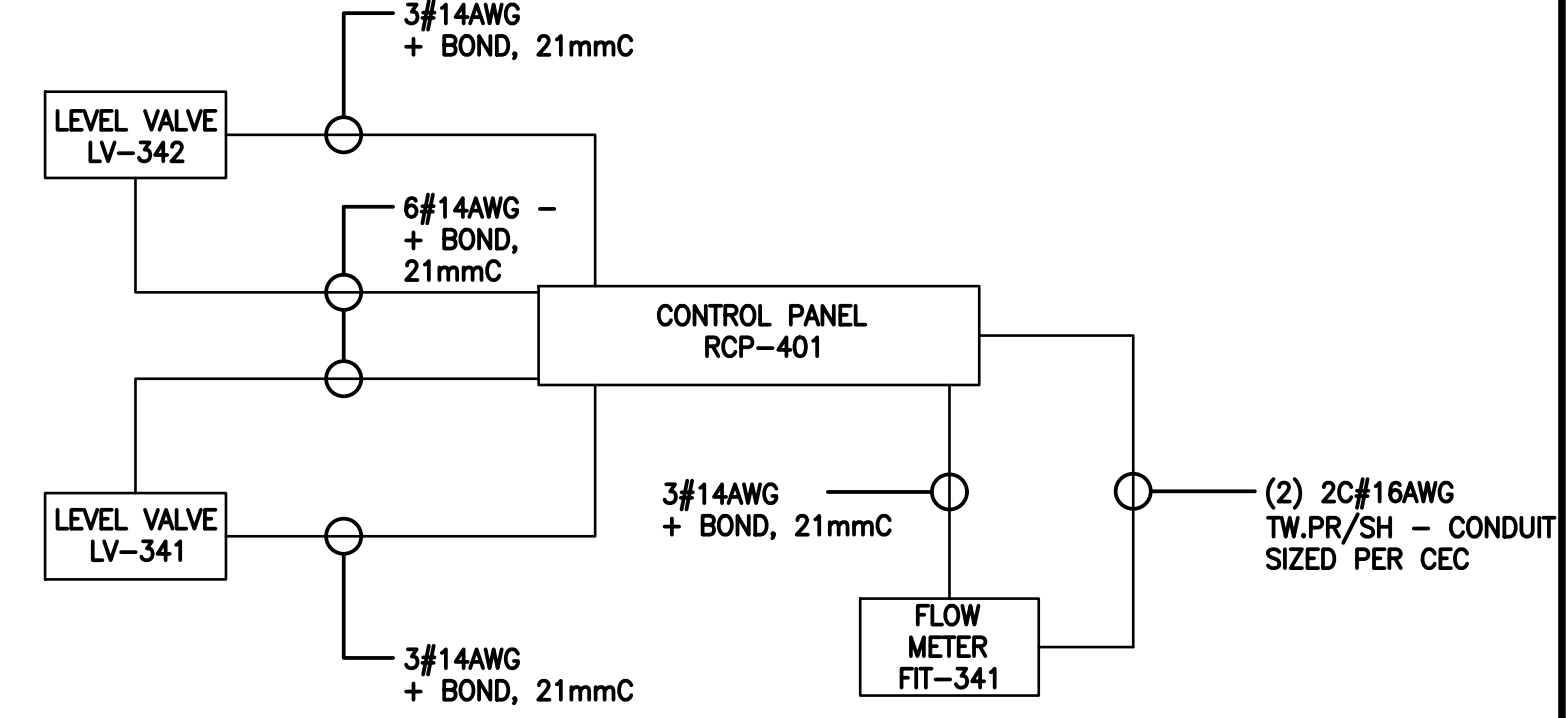
EXISTING LAYOUT OF ELECTRICAL ROOM **3**
SCALE 1:50
E2



NEW CONTROL PANELS ETHERNET INTERCONNECTION DIAGRAM **4**
SCALE NTS
E2



NEW CONTROL PANELS INTERCONNECTION DIAGRAM **5**
SCALE NTS
E2



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DESIGN	N.K.	REVIEWED BY	N.K.
DRAWN	S.Z.	CHECKED BY	N.K.
DATE	APRIL 2023	SCALE	AS NOTED
1	RE-ISSUED FOR TENDER	04/06/2023	MWB
0	ISSUED FOR TENDER	09/06/2022	MWB
No.	ISSUED FOR	DATE	BY

**MUNICIPALITY OF EAST HANTS
WATER TREATMENT PLANT UPGRADE**

**ROOM LAYOUTS, NEW CONTROL PANELS ETHERNET
INTERCONNECTION DIAGRAM**

PROJECT NO.
21-1662

SHEET NO.
E-2