

GOVERNMENT OF NUNAVUT RESOLUTE BAY SIGNAL HILL WATER TREATMENT PLANT TENDER #172620-00474

DRAWING No. REVISION No. COVER SHEET			LIST OF DRAWINGS
A-201 0 WATER TREATMENT PLANT DEMOLITION PLAN AND SECTIONS A-202 0 WATER TREATMENT PLANT DEMOLITION ROOF PLAN AND WALL SECTIONS A-203 0 WATER TREATMENT PLANT DEMOLITION ELEVATIONS A-204 0 WATER TREATMENT PLANT EXPANSION FLOOR PLAN A-205 0 WATER TREATMENT PLANT EXPANSION FLOOR PLAN A-206 0 WATER TREATMENT PLANT EXPANSION BUILDING ELEVATIONS A-207 0 WATER TREATMENT PLANT EXPANSION BUILDING SECTIONS A-208 0 WATER TREATMENT PLANT EXPANSION BUILDING DETAILS A-208 0 WATER TREATMENT PLANT EXPANSION CASEWORK SECTIONS AND ELEVATIONS C-201 0 WATER TREATMENT PLANT SITE LAYOUT C-202 0 WATER TREATMENT PLANT SITE SECTIONS AND DETAILS E-201 0 WATER TREATMENT PLANT ELECTRICAL DEMOLITION AND SITE PLAN E-202 0 WATER TREATMENT PLANT ELECTRICAL SINGLE LINE, SCHEMATIC AND POWER PLAN E-203 0 WATER TREATMENT PLANT ELECTRICAL SINGLE LINE, SCHEMATIC AND POWER PLAN E-204 0 HAMLET OF RESOLUTE SCADA SYSTEM PLAN AND PANEL SCHEDULES E-204 0 WATER TREATMENT PLANT PLC SCHEMATICS E-205 0 WATER TREATMENT PLANT PLC SCHEMATICS E-206 0 WATER TREATMENT PLANT PLC PANEL LAYOUT E-207 0 WATER TREATMENT PLANT PLC PANEL LAYOUT E-208 0 WATER TREATMENT PLANT PLC PANEL LAYOUT E-209 0 WATER TREATMENT PLANT PLC PANEL WINNING E-209 0 WATER TREATMENT PLANT PLC ANALOG I/O WINNING E-209 0 WATER TREATMENT PLANT PLC DANEL WINNING SCHEMATICS E-210 0 WATER TREATMENT PLANT PLC HEATING WATER CONTROLS AND AUTO DIALER SCHEMATICS E-209 0 WATER TREATMENT PLANT PLC HEATING WATER CONTROLS AND AUTO DIALER SCHEMATICS E-200 0 CHAR LAKE TEMPORARY PLC SINGLE LINE DIAGRAM AND FIELD EQUIPMENT CONTROLS SCHEMATICS E-220 0 CHAR LAKE TEMPORARY PLC SINGLE LINE DIAGRAM AND FIELD EQUIPMENT CONTROLS SCHEMATICS E-221 0 CHAR LAKE TEMPORARY PLC SINGLE LINE DIAGRAM AND FIELD EQUIPMENT CONTROLS SCHEMATICS E-221 0 CHAR LAKE TEMPORARY PLC PANEL LAYOUT	DRAWING No.	REVISION No.	DESCRIPTION
A-202 0 WATER TREATMENT PLANT DEMOILITION ROOF PLAN AND WALL SECTIONS A-203 0 WATER TREATMENT PLANT DEMOILITION RELEVATIONS A-204 0 WATER TREATMENT PLANT EXPANSION FLOOR PLAN A-205 0 WATER TREATMENT PLANT EXPANSION BUILDING ELEVATIONS A-206 0 WATER TREATMENT PLANT EXPANSION BUILDING SECTIONS A-207 0 WATER TREATMENT PLANT EXPANSION BUILDING SECTIONS A-208 0 WATER TREATMENT PLANT EXPANSION BUILDING DETAILS A-208 0 WATER TREATMENT PLANT EXPANSION CASEWORK SECTIONS AND ELEVATIONS C-201 0 WATER TREATMENT PLANT SITE LAYOUT C-202 0 WATER TREATMENT PLANT SITE SECTIONS AND DETAILS E-201 0 WATER TREATMENT PLANT SITE SECTIONS AND DETAILS E-202 0 WATER TREATMENT PLANT ELECTRICAL DEMOLITION AND SITE PLAN E-203 0 WATER TREATMENT PLANT ELECTRICAL SINGLE LINE, SCHEMATIC AND POWER PLAN E-203 0 WATER TREATMENT PLANT LIGHTING PLAN AND PANEL SCHEDULES E-204 0 HAMLET OF RESOLUTE SCADA SYSTEM PLAN AND DETAILS E-205 0 WATER TREATMENT PLANT PLC SCHEMATICS E-206 0 WATER TREATMENT PLANT PLC PANEL LAYOUT E-207 0 WATER TREATMENT PLANT PLC PANEL WIRING E-208 0 WATER TREATMENT PLANT PLC PANEL WIRING E-209 0 WATER TREATMENT PLANT PLC PANEL WIRING E-209 0 WATER TREATMENT PLANT PLC HEATING WATER CONTROLS AND AUTO DIALER SCHEMATICS E-210 0 CHAR LAKE TEMPORARY PLC SINGLE LINE DIAGRAM AND FIELD EQUIPMENT CONTROLS SCHEMATICS E-221 0 CHAR LAKE TEMPORARY PLC SINGLE LINE DIAGRAM AND FIELD EQUIPMENT CONTROLS SCHEMATICS E-221 0 CHAR LAKE TEMPORARY PLC SINGLE LINE DIAGRAM AND FIELD EQUIPMENT CONTROLS SCHEMATICS			COVER SHEET
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E-220 0 CHAR LAKE TEMPORARY PLC SINGLE LINE DIAGRAM AND FIELD EQUIPMENT CONTROLS SCHEME 0 CHAR LAKE TEMPORARY PLC PANEL LAYOUT	E-209	0	WATER TREATMENT PLANT FIELD WIRING SCHEMATICS
E-221 0 CHAR LAKE TEMPORARY PLC PANEL LAYOUT	E-210	0	WATER TREATMENT PLANT PLC HEATING WATER CONTROLS AND AUTO DIALER SCHEMATICS
	E-220	0	CHAR LAKE TEMPORARY PLC SINGLE LINE DIAGRAM AND FIELD EQUIPMENT CONTROLS SCHEMATICS
E-222 0 CHAR LAKE TEMPORARY PLC PANEL WIRING	E-221	0	CHAR LAKE TEMPORARY PLC PANEL LAYOUT
	E-222	0	CHAR LAKE TEMPORARY PLC PANEL WIRING

DRAWING No.	REVISION No.	DESCRIPTION
		COVER SHEET
M-210	0	WATER TREATMENT DI ANT MECHANICAL I ECEND AND RRAWING LIST
M-211	0	WATER TREATMENT PLANT MECHANICAL LEGEND AND DRAWING LIST WATER TREATMENT PLANT HEATING DEMOLITION
M-212	0	
M-213	0	WATER TREATMENT PLANT PLUMBING LAYOUT AND DETAILS WATER TREATMENT PLANT HEATING LAYOUT
M-214	0	WATER TREATMENT PLANT HEATING LAYOUT WATER TREATMENT PLANT HEATING DETAILS AND SCHEMATIC
M-215	0	
M-216	0	WATER TREATMENT PLANT VENTUATION DETAILS
M-217	0	WATER TREATMENT PLANT FLIEL OVOTENS
M-218	0	WATER TREATMENT PLANT FUEL SYSTEMS
		WATER TREATMENT PLANT CONTROLS
M-219	0	WATER TREATMENT PLANT CONTROLS
P-201	0	WATER TREATMENT PLANT FLOW DIAGRAM, SYMBOLS, LEGENDS & ABBREVIATIONS
P-202	0	WATER TREATMENT PLANT P & ID
P-203	0	WATER TREATMENT PLANT DEMOLITION PLAN
P-204	0	WATER TREATMENT PLANT OVERALL PIPING PLAN
P-205	0	WATER TREATMENT PLANT EXPANDED PIPING PLAN
P-206	0	WATER TREATMENT PLANT PIPING SECTIONS
P-207	0	WATER TREATMENT PLANT PIPING SECTIONS
P-208	0	WATER TREATMENT PLANT TRUCKFILL & PIPING SECTIONS
P-209	0	WATER TREATMENT PLANT MISCELLANEOUS DETAILS
P-210	0	WATER TREATMENT PLANT PIPE SUPPORT DETAILS
P-211	0	WATER TREATMENT PLANT PARTIAL HYDRAULIC PROFILES SUPPLY PIPING IN BUILDING TO RESERVOIR
P-212	0	WATER TREATMENT PLANT PARTIAL HYDRAULIC PROFILES RESERVOIR TO CIRCULATION SYSTEM
P-213	0	WATER TREATMENT PLANT PARTIAL HYDRAULIC PROFILES RESERVOIR TO TRUCKFILL AND FILTER BACKWASH
S-201	0	WATER TREATMENT PLANT EXPANSION FOUNDATION PLAN AND DETAILS
S-202	0	WATER TREATMENT PLANT EXPANSION FOUNDATION SECTIONS AND DETAILS
S-203	0	
S-203	0	WATER TREATMENT PLANT EXPANSION ROOF PLAN AND DETAILS WATER TREATMENT PLANT EXPANSION STEEL FRAMING ELEVATIONS
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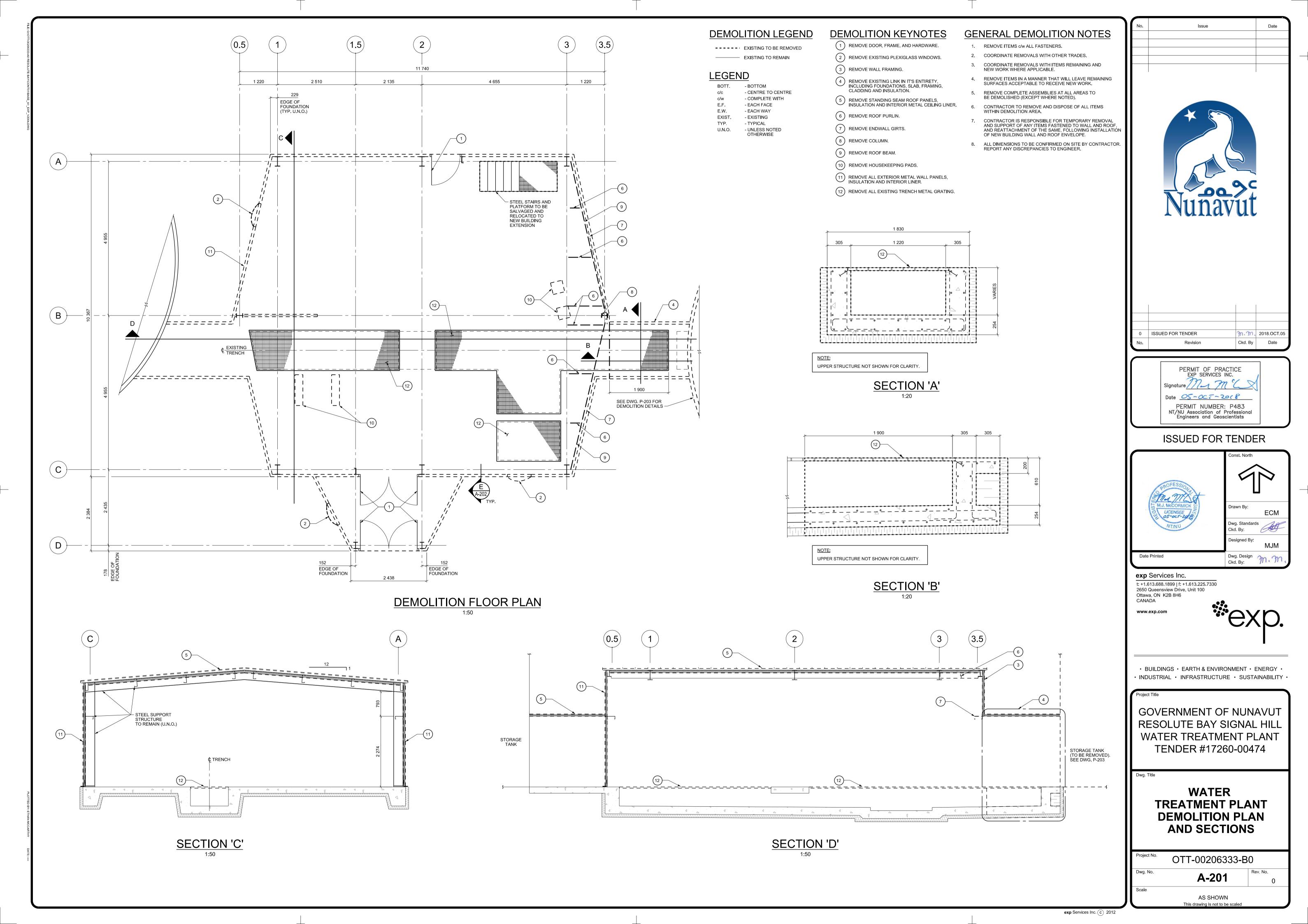
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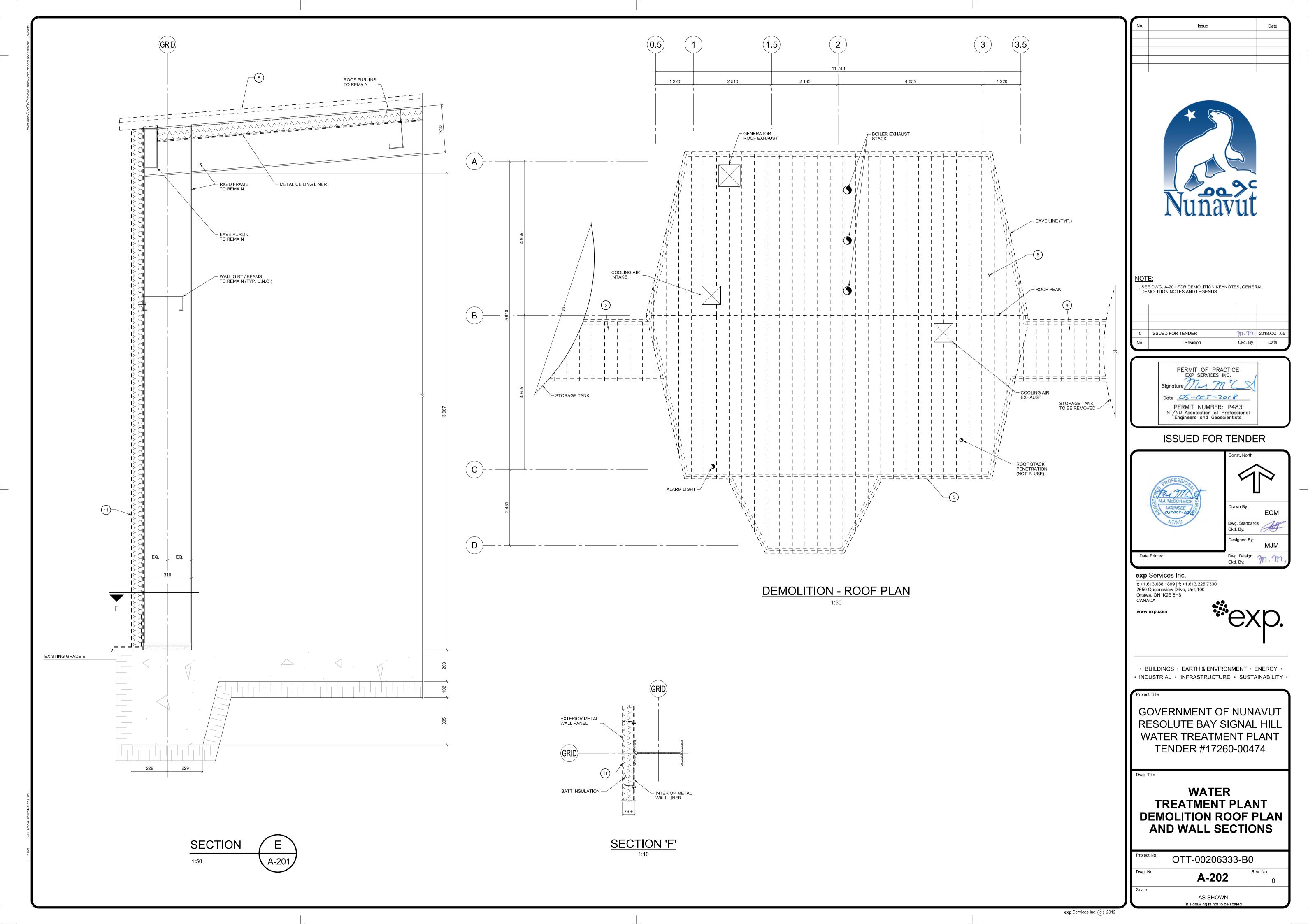
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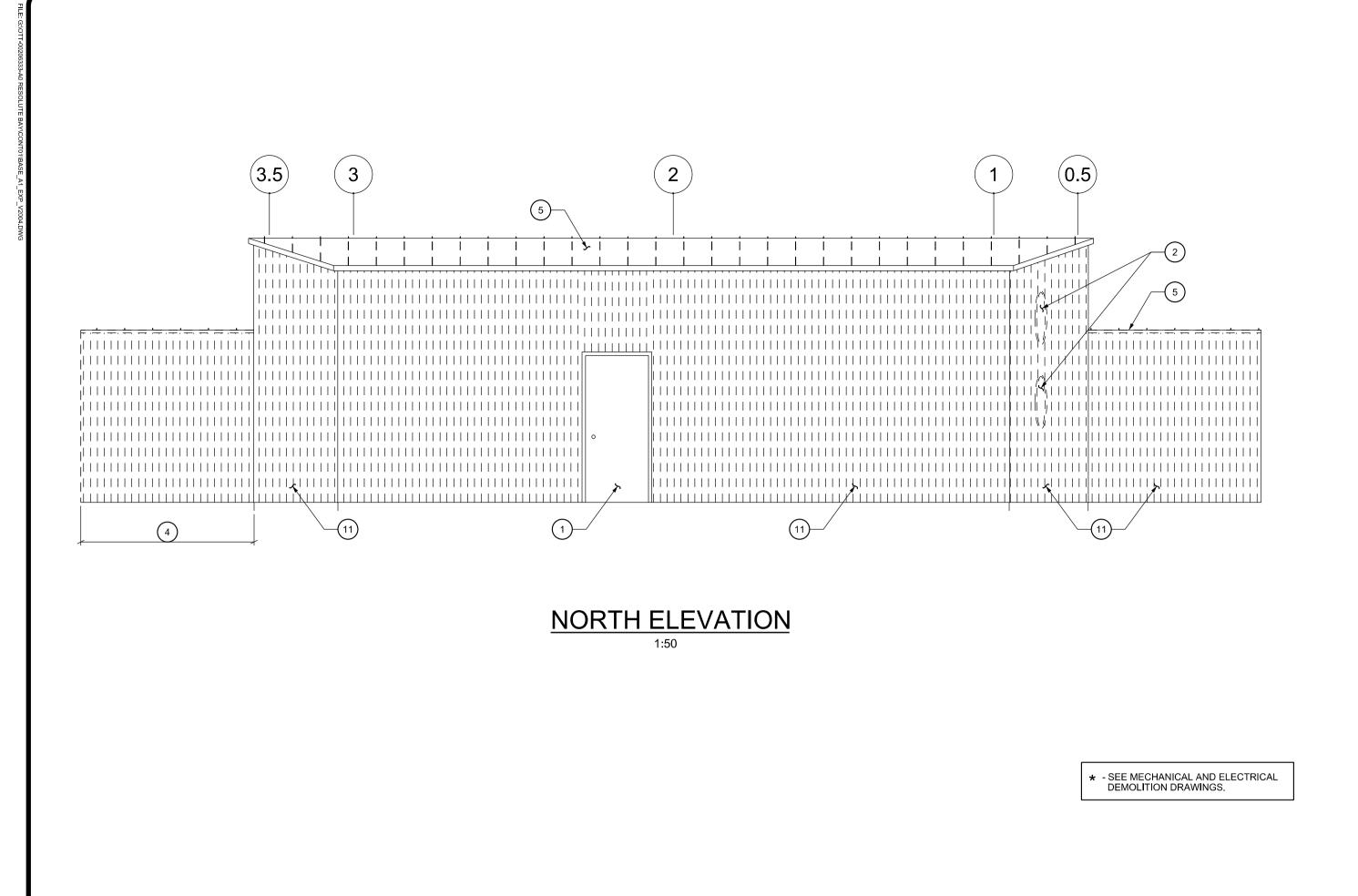
BUILDINGS • EARTH & ENVIRONMENT • ENERGY •INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

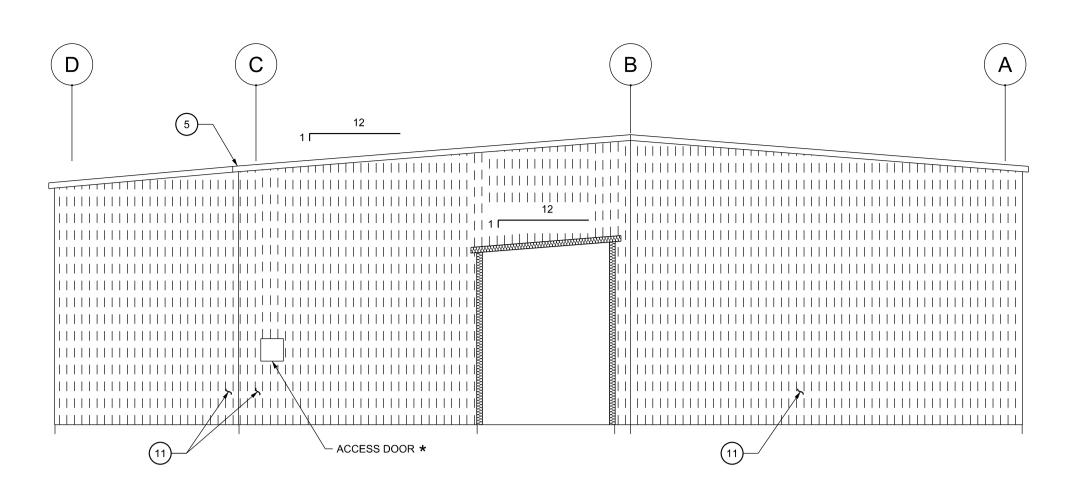
ISSUED FOR TENDER

DATE: OCTOBER 2018



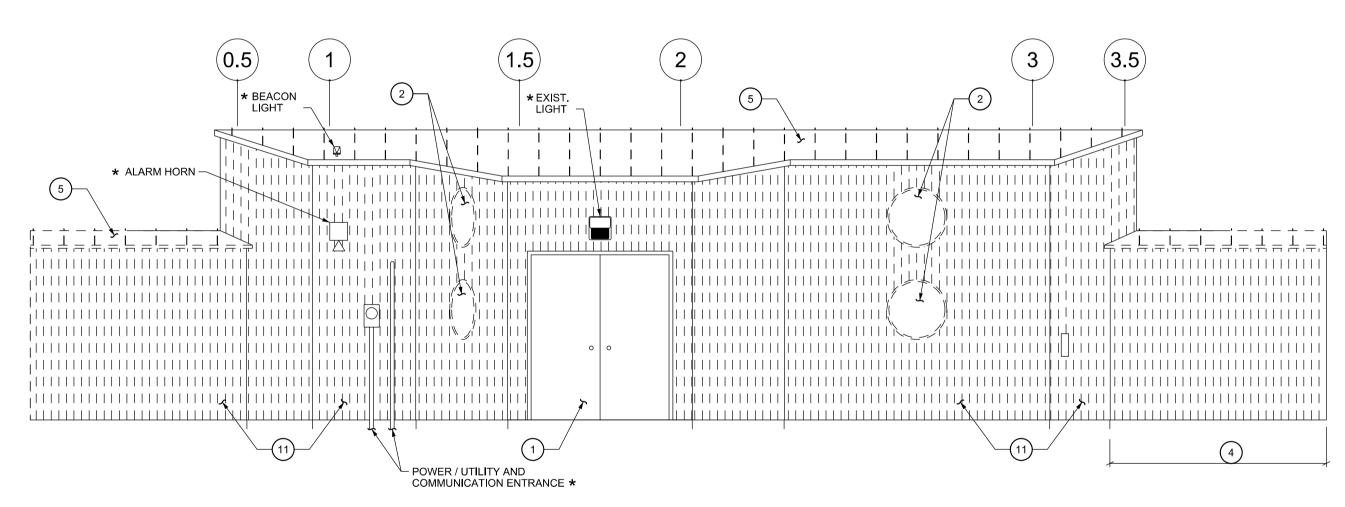


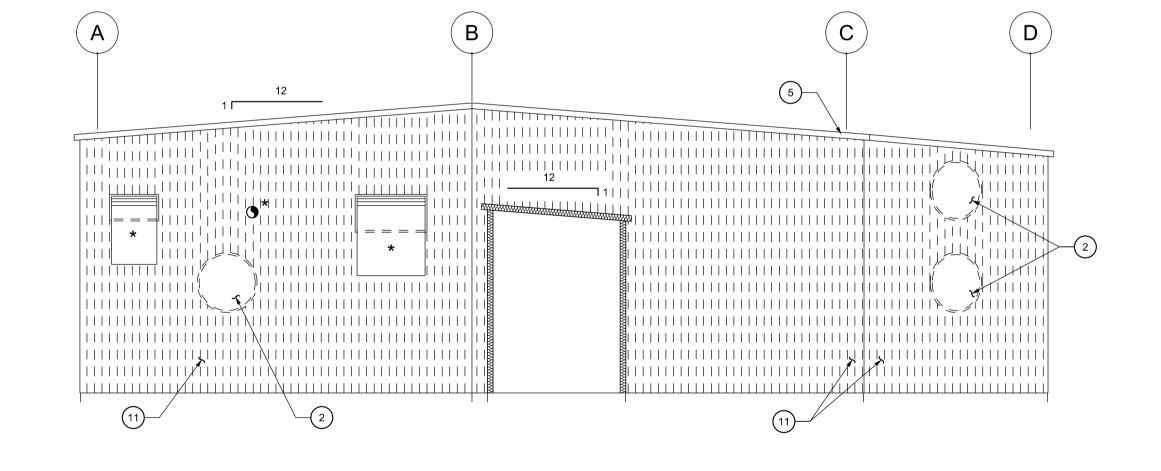




EAST ELEVATION

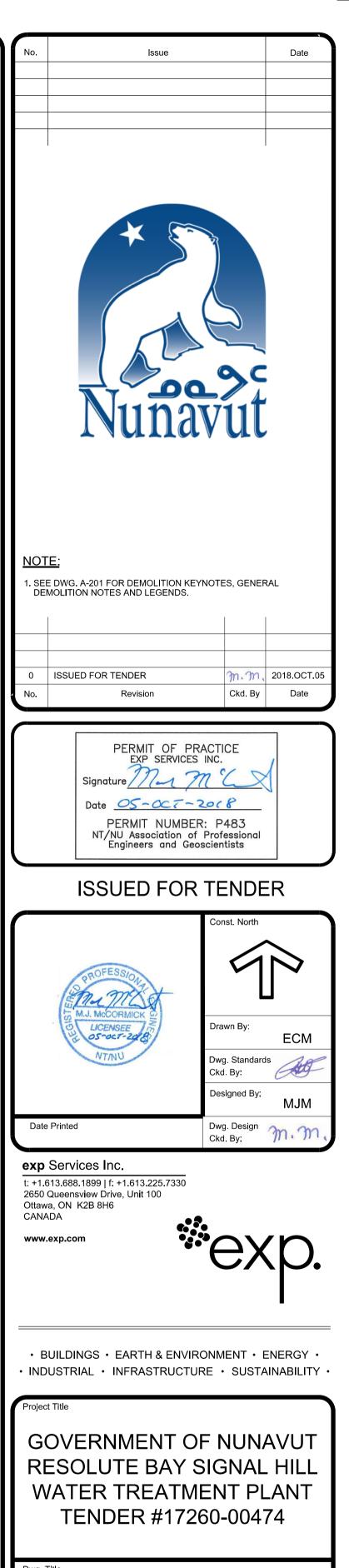
TANKS NOT SHOWN FOR CLARITY.





SOUTH ELEVATION

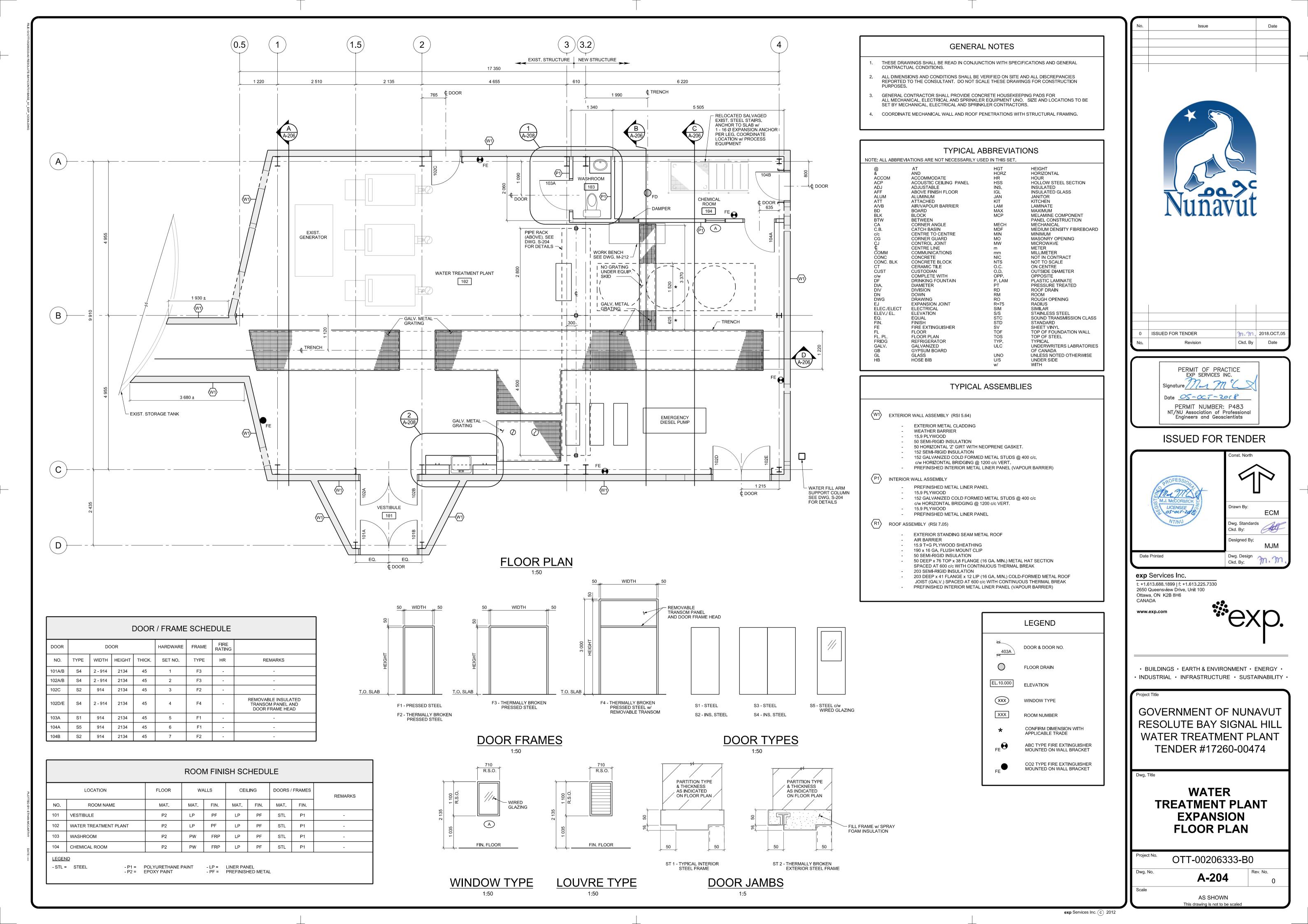
WEST ELEVATION

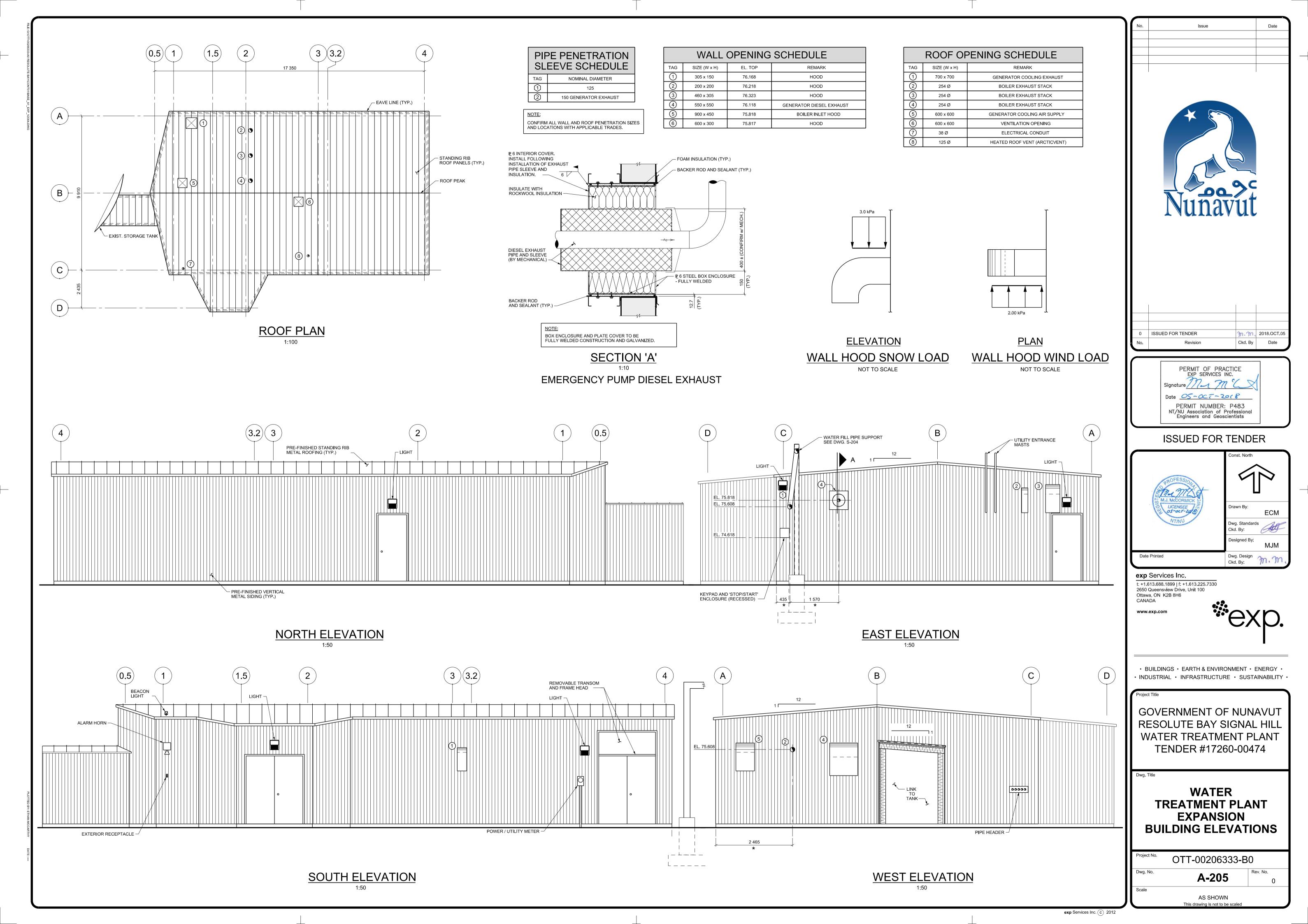


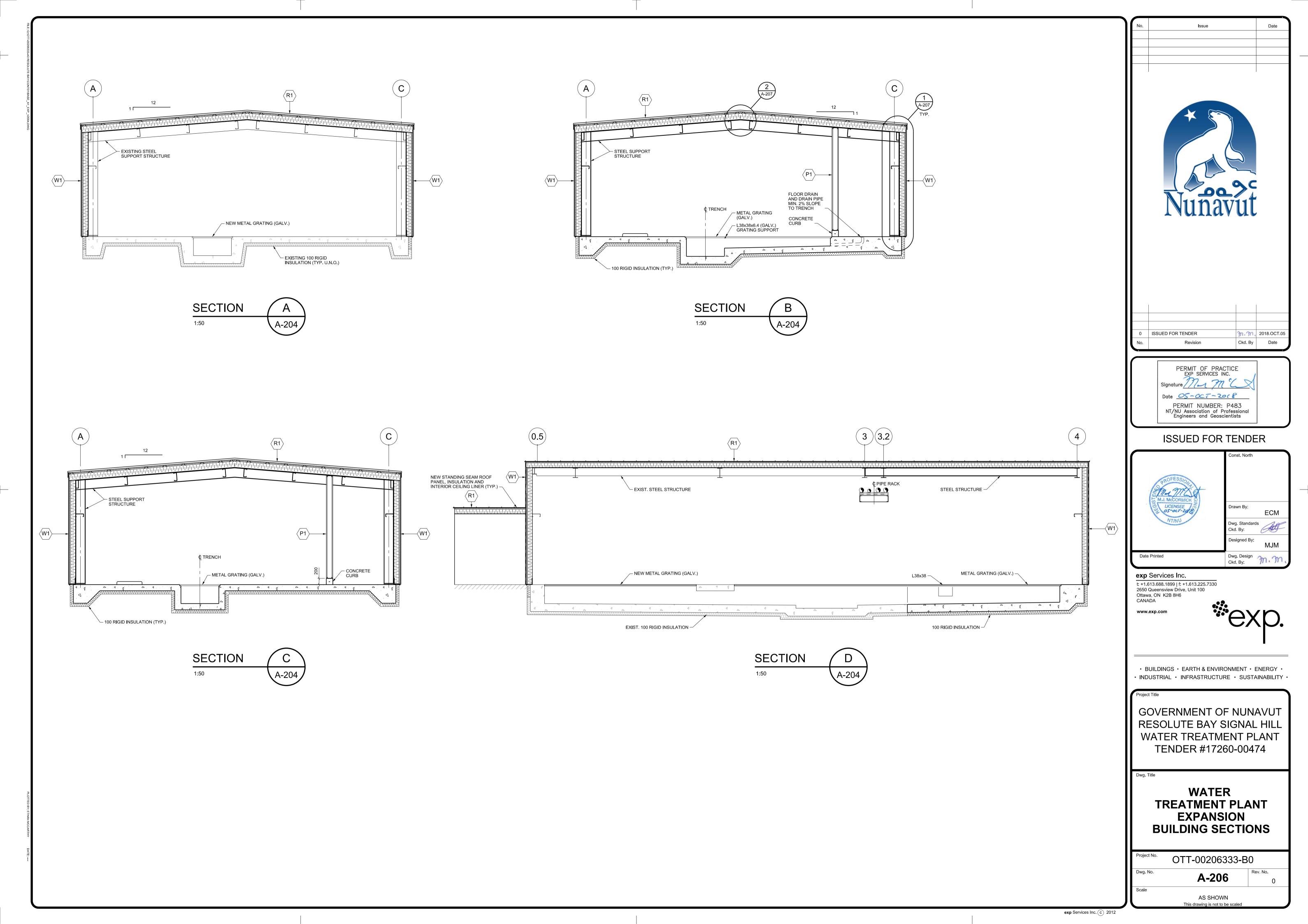
WATER TREATMENT PLANT **DEMOLITION ELEVATIONS**

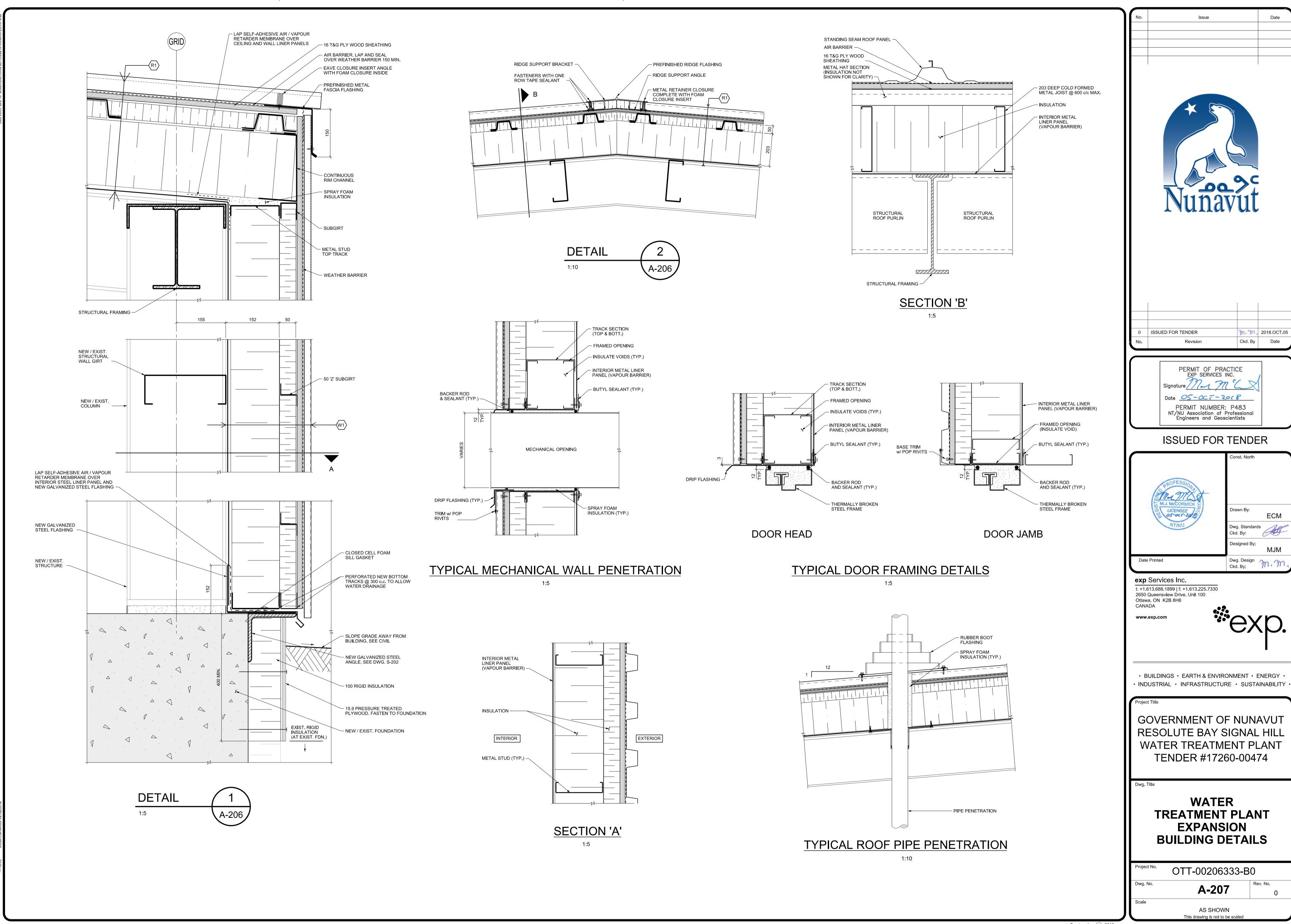
OTT-00206333-B0 A-203 AS SHOWN

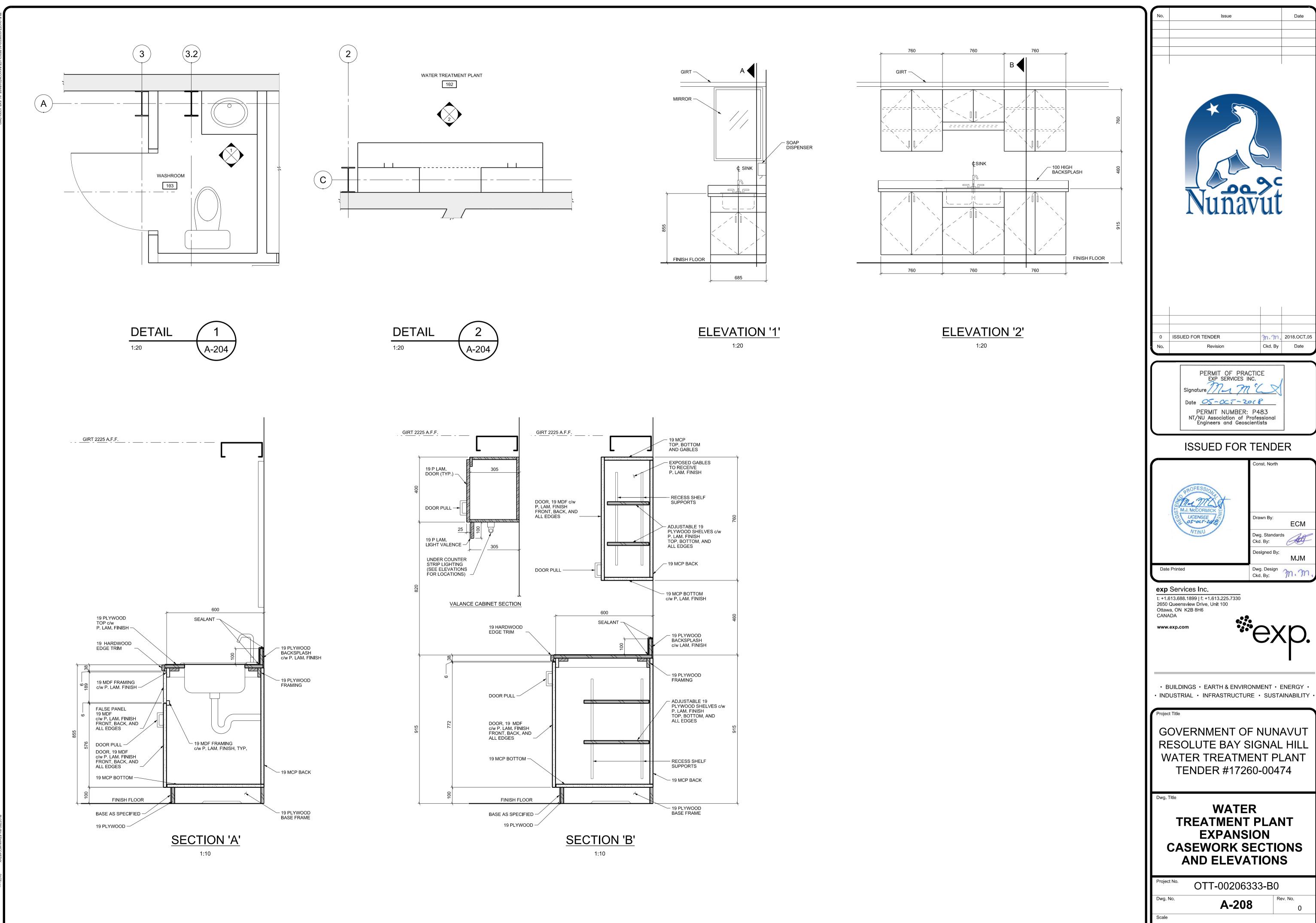
exp Services Inc. (c) 2012











A-208 AS SHOWN exp Services Inc. © 2012

m.m. 2018.OCT.05

Ckd. By Date

Drawn By:

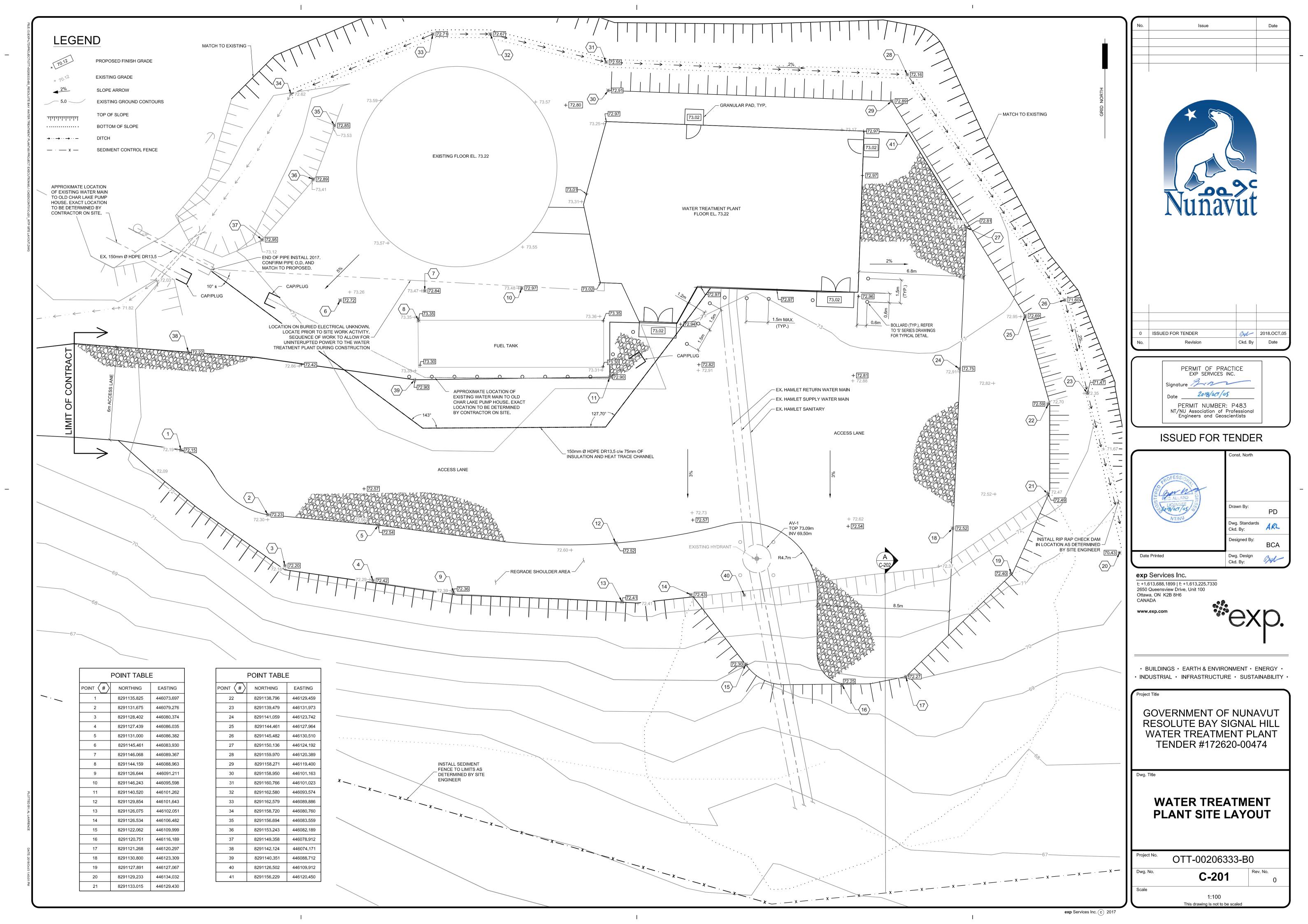
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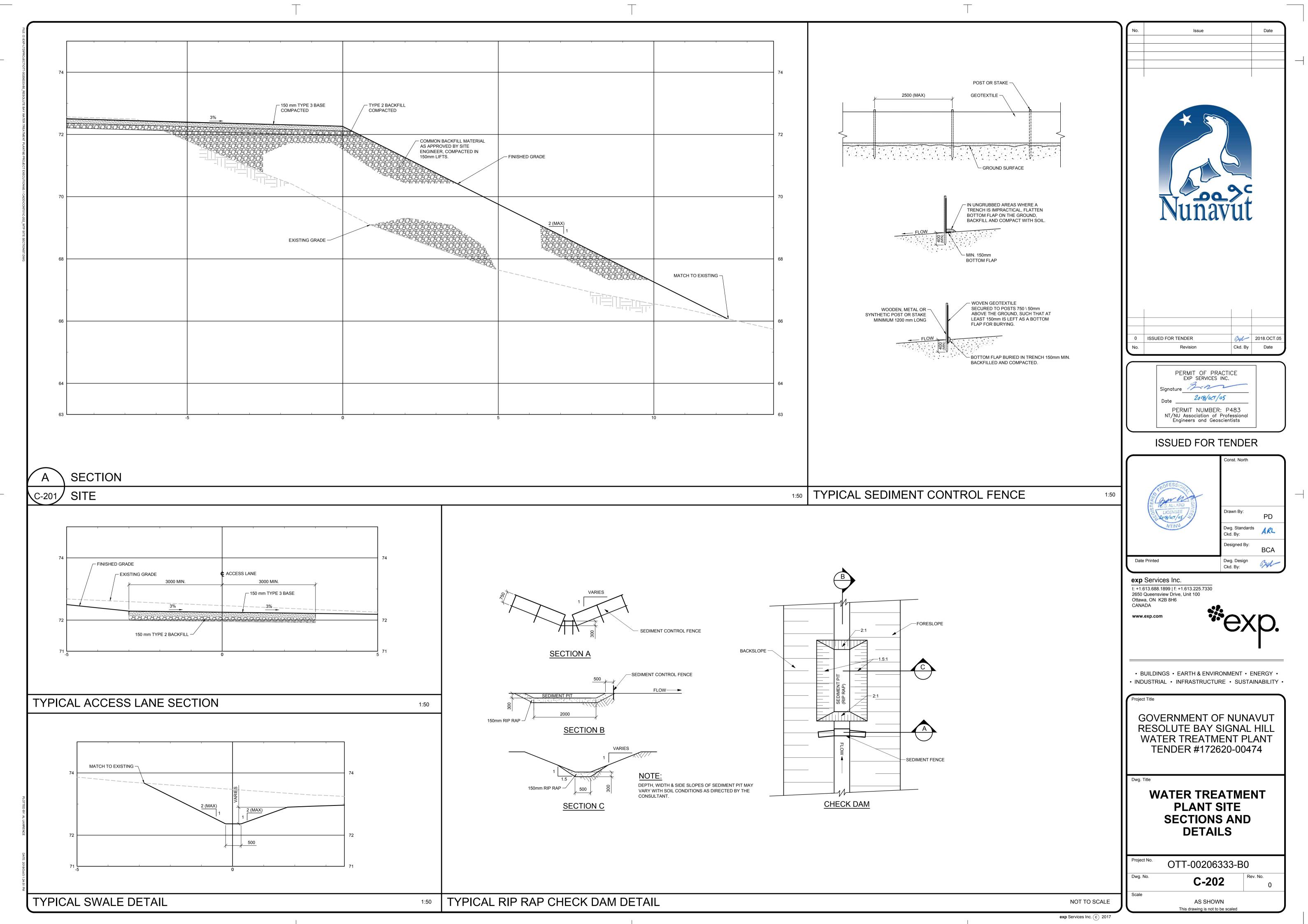
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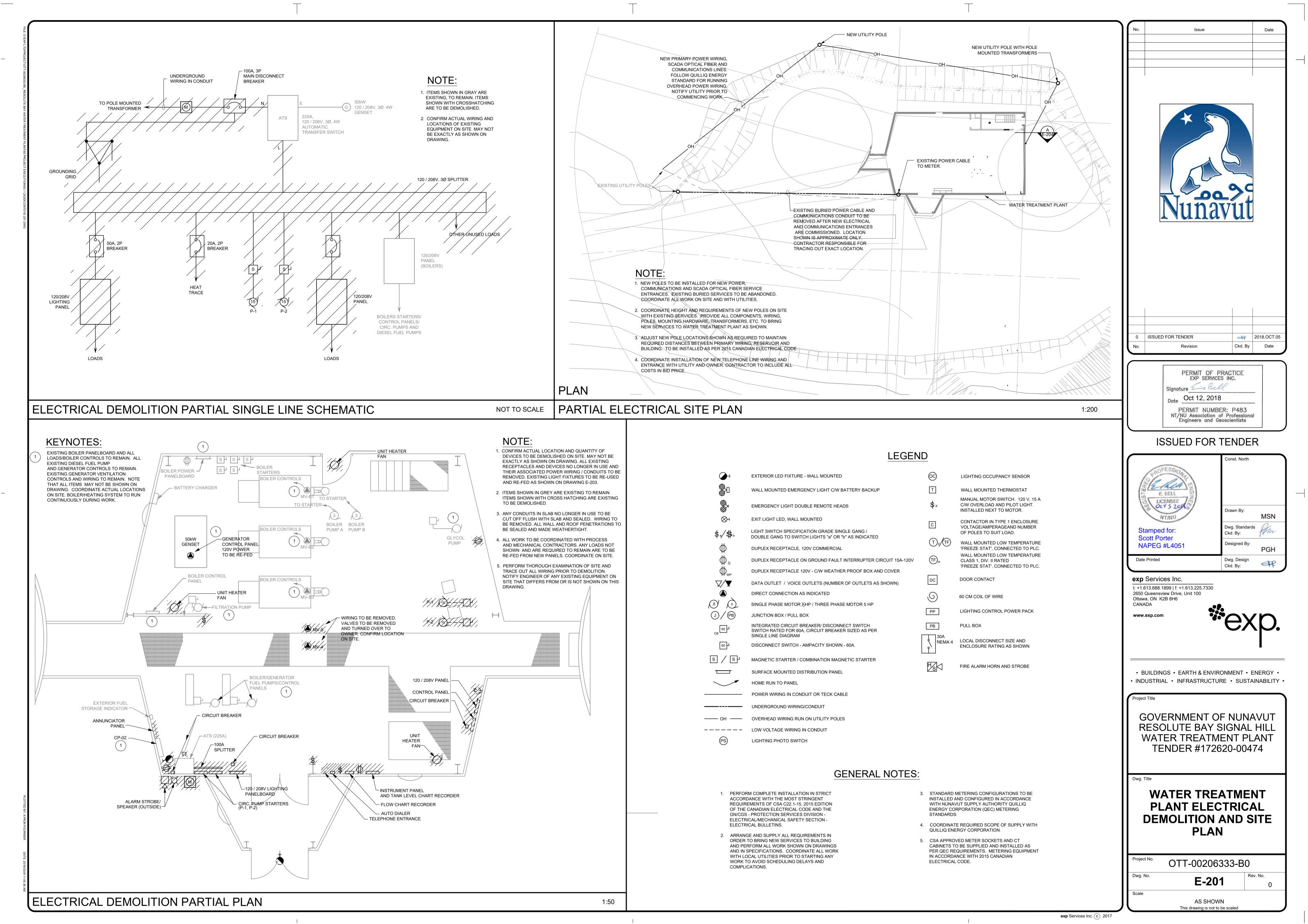
Designed By:

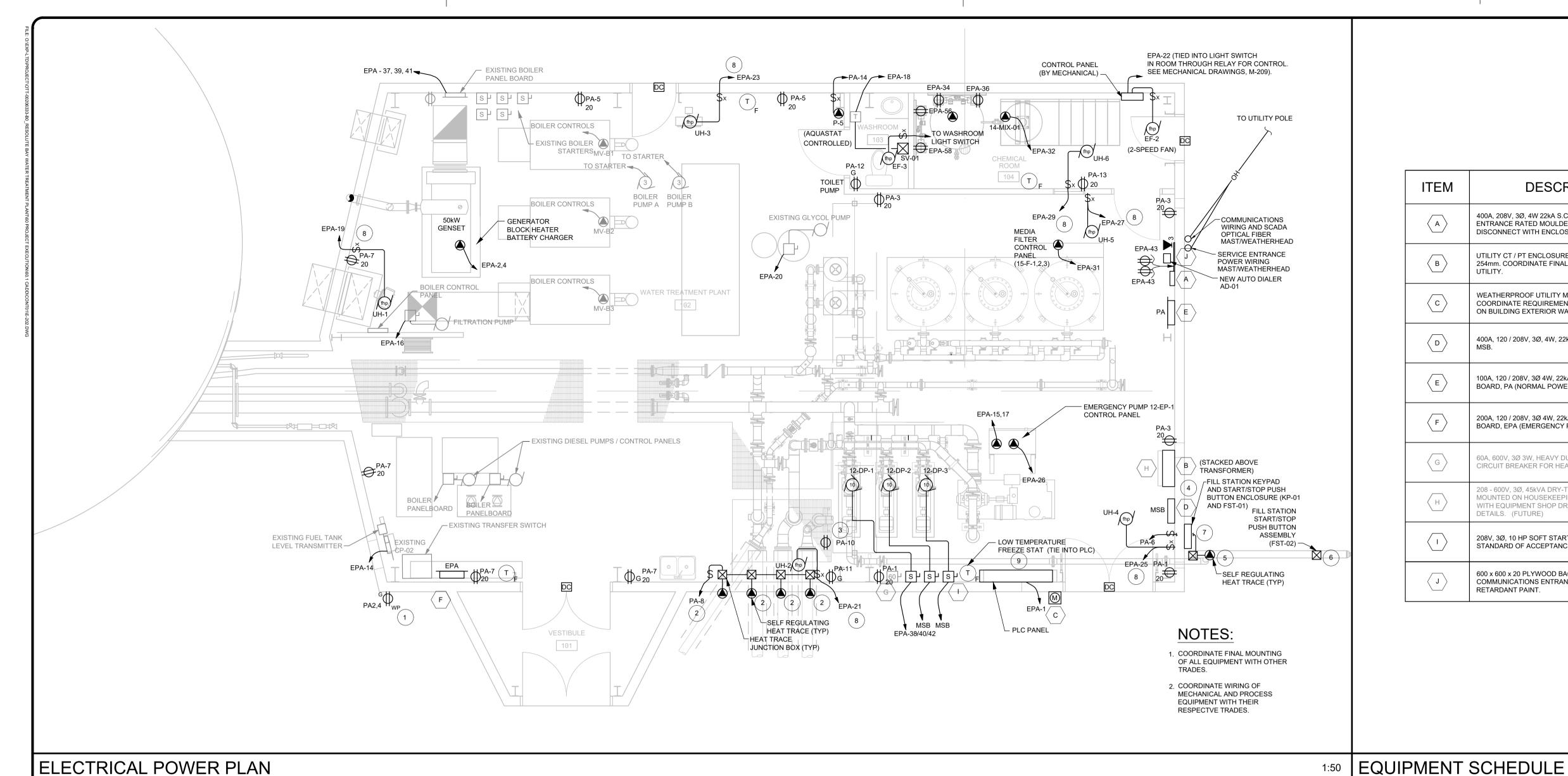
Dwg. Design m. m

ECM

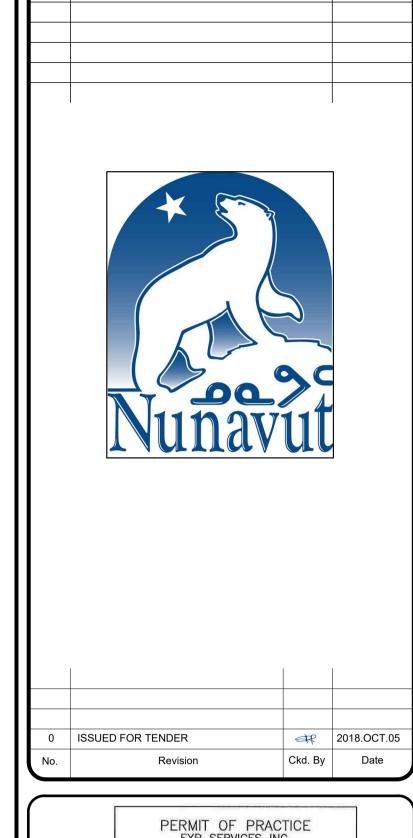








ITEM	DESCRIPTION
A	400A, 208V, 3Ø, 4W 22kA S.C. HEAVY DUTY MAIN SERVICE ENTRANCE RATED MOULDED CASE CIRCUIT BREAKER / DISCONNECT WITH ENCLOSURE.
В	UTILITY CT / PT ENCLOSURE CABINET 760mm x 760mm x 254mm. COORDINATE FINAL REQUIREMENTS WITH UTILITY.
C	WEATHERPROOF UTILITY METER SOCKET 120 / 208V, 3Ø. COORDINATE REQUIREMENTS WITH UTILITY. INSTALLED ON BUILDING EXTERIOR WALL.
D	400A, 120 / 208V, 3Ø, 4W, 22kA S.C. MAIN SWITCH BOARD, MSB.
E	100A, 120 / 208V, 3Ø 4W, 22kA S.C., 30 CIRCUIT PANEL BOARD, PA (NORMAL POWER).
F	200A, 120 / 208V, 3Ø 4W, 22kA S.C., 60 CIRCUIT PANEL BOARD, EPA (EMERGENCY POWER).
G	60A, 600V, 3Ø 3W, HEAVY DUTY DISCONNECT SWITCH / CIRCUIT BREAKER FOR HEAT TRACE. (FUTURE)
$\langle H \rangle$	208 - 600V, 3Ø, 45kVA DRY-TYPE TRANSFORMER. MOUNTED ON HOUSEKEEPING PAD. COORDINATE SIZE WITH EQUIPMENT SHOP DRAWINGS AND STRUCTURAL DETAILS. (FUTURE)
	208V, 3Ø, 10 HP SOFT STARTER / DISCONNECT SWITCH. STANDARD OF ACCEPTANCE: EATON I.TS801 SERIES.
J	600 x 600 x 20 PLYWOOD BACKBOARD FOR COMMUNICATIONS ENTRANCE. PAINTED WITH FIRE RETARDANT PAINT.



Issue

EXP SERVICES INC. Oct 12, 2018 PERMIT NUMBER: P483 NT/NU Association of Professional Engineers and Geoscientists

ISSUED FOR TENDER



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CANADA



Dwg. Design

Ckd. By:

• BUILDINGS • EARTH & ENVIRONMENT • ENERGY • INDUSTRIAL
 INFRASTRUCTURE
 SUSTAINABILITY

GOVERNMENT OF NUNAVUT RESOLUTE BAY SIGNAL HILL WATER TREATMENT PLANT TENDER #172620-00474

WATER TREATMENT PLANT ELECTRICAL SINGLE LINE, SCHEMATIC **AND POWER PLAN**

OTT-00206333-B0 Rev. No. E-202

> AS SHOWN This drawing is not to be scaled

SPECIFICATION:

PRODUCTS

1. 120V, 10W/FT AND 20W/FT. SELF REGULATING HEATER CABLE, RATING AND VOLTAGES SHOWN, WITH TINNED COPPER BRAID AND FLUROPOLYMER JACKET.

2. TO COME COMPLETE WITH POWER CONNECTION BOXES, MANUAL CONTROLLERS, TERMINATION KITS, TAPE AND WARNING LABELS BY SAME MANUFACTURER AS CABLE.

3. ACCEPTABLE MANUFACTURERS: THERMON, RAYCHEM, CHROMALOX.

4. ALL COMPONENTS ARE TO HAVE CSA LABELS.

5. ESTIMATED QUANTITY TO APPLY TO BE CONFIRMED WITH MANUFACTURER AND ON SITE PRIOR TO INSTALLATION.

INSTALLATION:

SELF-REGULATING HEAT TRACE:

 FOLLOW THE MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURE. SUPPLY AND **INSTALL ALL COMPONENTS**

REQUIRED

2. WHEN TRACING VALVES, FLANGES, ETC, WRAP WITH LOOPS OF CABLE IN SUCH FASHION AS TO ALLOW THE REMOVAL OF SUCH FITTINGS WITHOUT CUTTING THE CABLE.

3. APPLY ONE WARNING LABEL PER LOCATION AFTER INSULATION HAS BEEN APPLIED.

MANUFACTURERS RECOMMENDATION. 5. HEAT TRACE CABLES TO BE **GROUNDED AS PER CEC 2015**

FIELD LOCATED AS PER

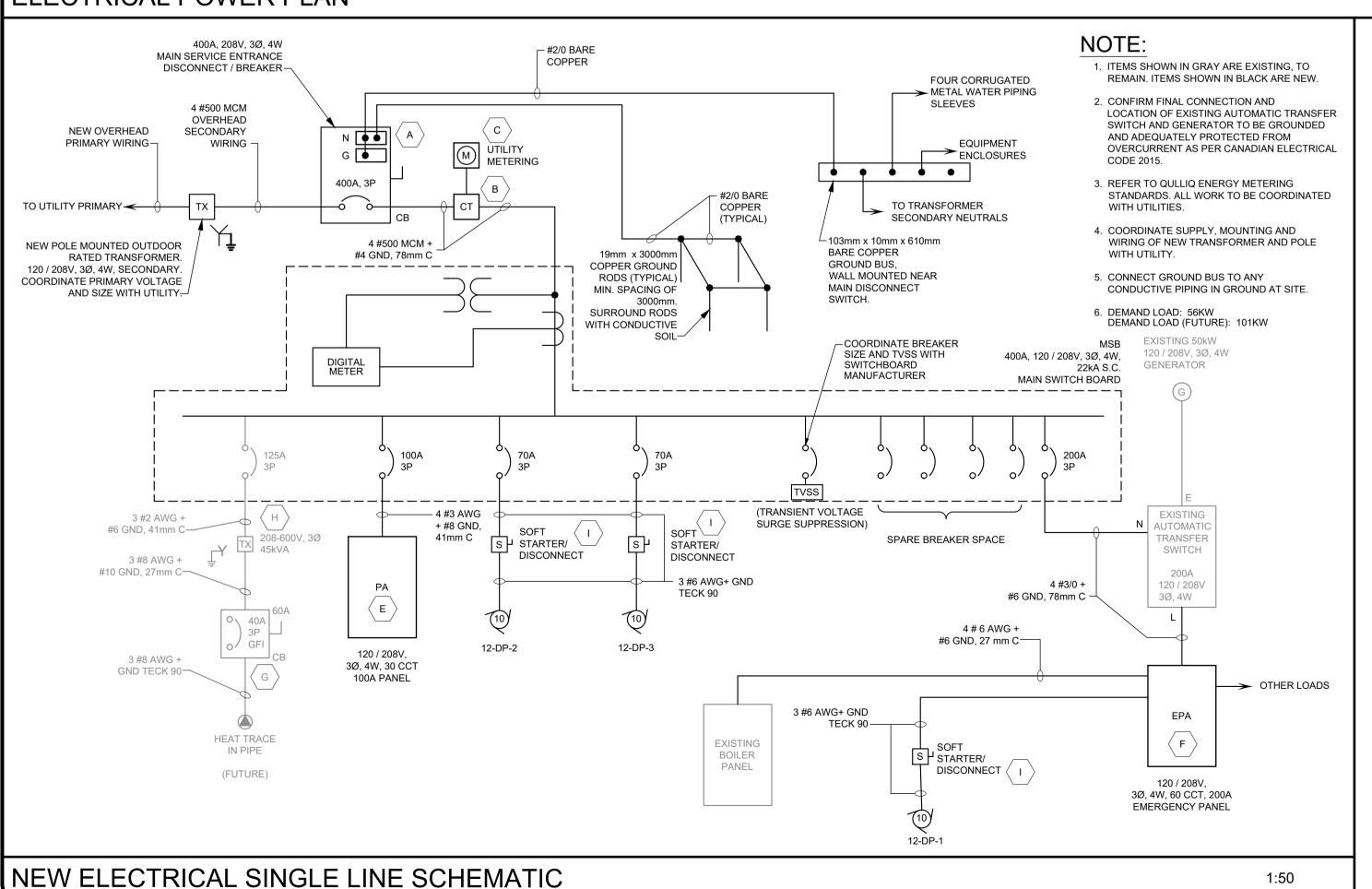
4. COORDINATE INSTALLATION

WITH OTHER TRADES. POWER

CONNECTION BOXES TO BE

AND MANUFACTURER REQUIREMENTS. NOT ALL WIRING SHOWN.

6. INSTALL ALL CONTROLLERS, TERMINATION KITS, TAPE AND WIRING LABELS AS REQUIRED BY MANUFACTURER. NOT ALL COMPONENTS SHOWN ON



KEYNOTES:

BLOCK HEATER RECEPTACLE TO BE A SPLIT-POWER RECEPTACLE WITH STAND ALONE CONTROLS. PLUG MOUNTED @ 1600mm ABOVE GRADE. RECEPTACLE TO BE TIED INTO INTERNAL THERMOSTAT AND TIME CLOCK. OPERATION: ABOVE -20°C: NO POWER TO RECEPTACLES, BETWEEN -20°C AND -30°C: POWER TO RECEPTACLES IN HALF HOUR INTERVALS, BELOW -30°C: POWER TO RECEPTACLE 100% OF THE TIME. STANDARD OF ACCEPTANCE: INTELLIGENT PARKING LOT CONTROLLER.

EACH PIPE ENTERING/LEAVING TO BE HEAT TRACED 2 FOR FIRST 4000 mm OUTSIDE OF BUILDING. TO BE CONTROLLED BY 120V / 20A MANUAL WALL SWITCH (C/W LAMACOID LABEL). COORDINATE WITH PROCESS DRAWINGS. SEE PRODUCT SPECIFICATIONS. TO BE 10 W/FT SELF REGULATING

3 INSTALL RECEPTACLE AT CEILING FOR ARTIC VENT POWER

ROUTE ANY WIRING AND EQUIPMENT MINIMUM 450 mm AWAY FROM FIRE PUMP EXHAUST PIPING. COORDINATE FINAL ARRANGEMENT ON SITE.

(5) HEAT TRACE PIPING FOR TRUCK FILL STATION. COORDINATE WITH PROCESS DRAWINGS. APPROXIMATE LENGTH OF HEAT TRACE REQUIRED IS 6000 mm. TO BE CONTROLLED BY 120V / 20A MANUAL WALL SWITCH (C/W LAMACOID LABEL). HEAT TRACE TO BE SELF REGULATING 20W/FT. 120V. SEE PRODUCT SPECIFICATIONS.

(6) COORDINATE MOUNTING HEIGHT AND LOCATION OF FILL STATION START/STOP PUSH BUTTON ASSEMBLY WITH OTHER TRADES. SEE P-208. ASSEMBLY TO BE MOUNTED ON METAL FILL STATION BEAM.

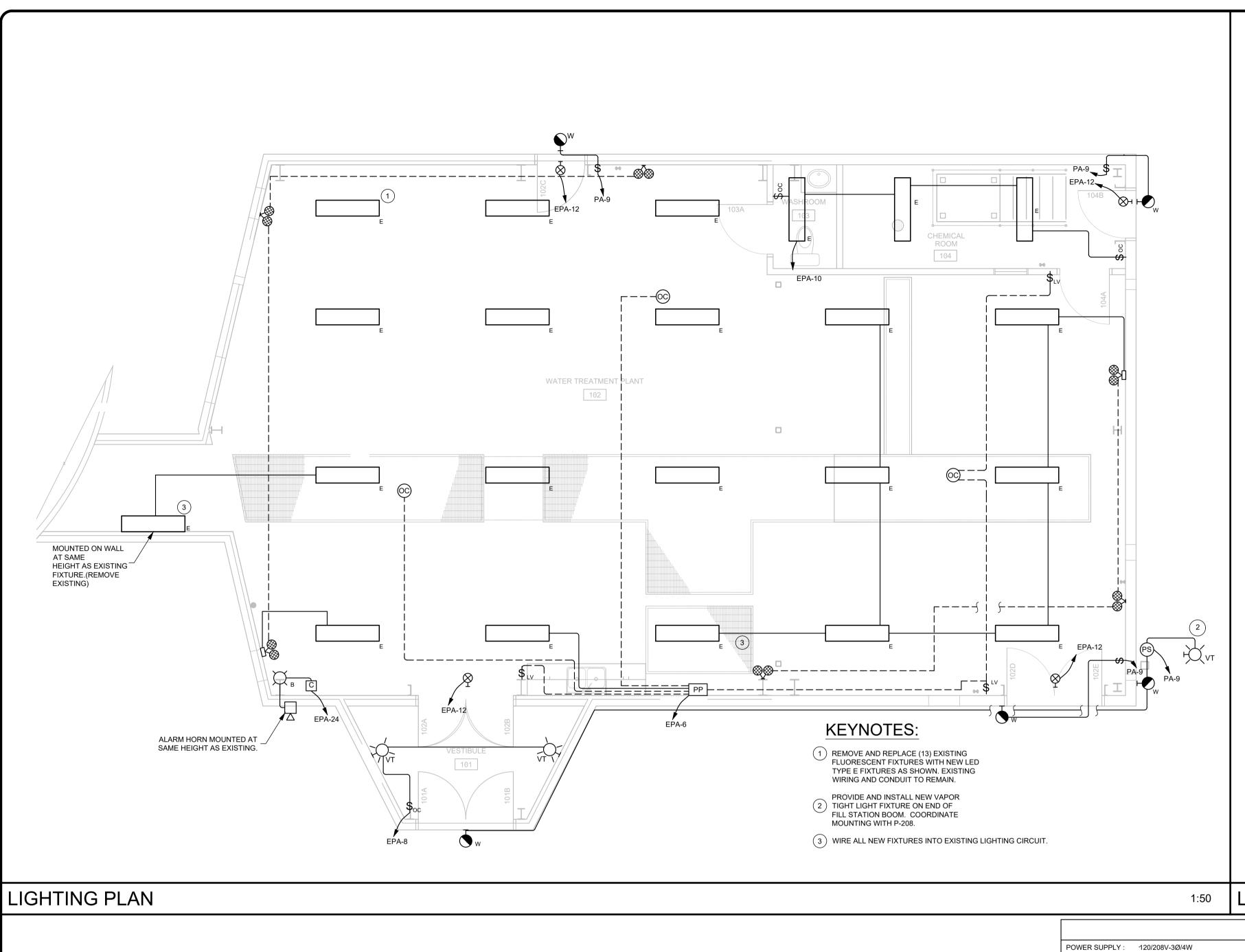
(7) FILL STATION KEYPAD AND START/STOP PUSH BUTTON ASSEMBLY TO BE MOUNTED IN NEMA 4X ENCLOSURE. ENCLOSURE TO BE 305 mm x 305 mm x 152 mm STAINLESS STEEL INSULATED ENCLOSURE ENCLOSURE TO BE RECESSED IN EXTERIOR WALL. TO BE MOUNTED WITH CENTER OF PANEL 1400 mm ABOVE GRADE.

(8) TO BE WIRED THROUGH THERMOSTAT PROVIDED BY MECHANICAL.

(9) COORDINATE FINAL MOUNTING OF PLC PANEL WITH PIPING. BOTH DOORS TO BE CAPABLE OF BEING OPENED. PLC PANEL TO BE ORDERED WITH LEFT DOOR 1016mm WIDE AND RIGHT DOOR 510mm WIDE. COORDINATE WITH MANUFACTURER.

1:50

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SYMBOL	DESCRIPTION	STANDARD OF ACCEPTANCE
E	1391mm x 210mm VAPOUR PROOF LED. 50W LED FIXTURE. 120V OPERATED. CHAIN SUPPORT.	CFI - SEALATRON LED VTL SERIES
→ w	WALL MOUNTED WEATHERPROOF LED EXTERIOR LIGHT FIXTURE 120V, EQUIVILANT LIGHT OUTPUT TO 100W METAL HALIDE, RATED FOR EXTREME COLD WEATHER USE. MOUNTED ABOVE DOOR.	KEENE - FLOOD PAK
⊗-1	WALL MOUNTED EXIT LIGHT. 120V, GREEN "RUNNING MAN" PICTOGRAM. NEMA 4X. TO COME WITH BUILT-IN BATTERY BACK UP. MOUNTED ABOVE DOOR.	LUMACELL LN SERIES
©/PP	CEILING MOUNTED LOW VOLTAGE DUAL TECHNOLOGY SENSOR / WALL MOUNTED POWER PACK FOR OCCUPANCY SENSOR, 120V, 15A. WALL MOUNTED AT 2300 mm AFF.	HUBBELL OMNIDIA SERIES c/w OPE OMNI PROTECTIVE ENCLOSURE.
PS	DAY LIGHT PHOTO SENSOR, 120V, 15A WEATHERPROOF. RATED FOR EXTREME COLD WEATHER USE	SENSOR SWITCH
\$ oc	LINE VOLTAGE STAND ALONE LIGHT SWITCH WITH BUILT IN DUAL TECHNOLOGY OCCUPANCY SENSOR AND MANUAL CONTROL, 120V, 15A	OCCUSWITCH CLASSIC - LRS 2220 SERIES
\$1.	LOW VOLTAGE LIGHT SWITCH	PHILIPS
ЖВ	RED BEACON LIGHT, MOUNTED ON GALVANIZED CONDUIT AT 300 mm ABOVE ROOF. NEMA 4X RATED, 100W , 120 V INCANDESCENT LAMP CONTROLLED BY PLC PANEL.	L810 GENERAL USE INCANDESCENT OBSTRUCTION LIGHT 50021-R-116
	ALARM HORN MOUNTED ON WALL. NEMA 4X RATED, 120V, 110 DB	CROUSE HINDS DB15 SERIES
Х	120V/16W VAPORTIGHT WEATHER PROOF LED FIXTURE, CLEAR GLASS GLOBE WITH GUARD.	KILLARK - VSL SERIES
@ <u>@</u> /@@	NEMA 4X EMERGENCY LIGHT BATTERY PACK, BLACK, 120V POWER, 12V LOW VOLTAGE, 108W, 2 X 6W LED LIGHTS / REMOTE HEAD, 2 X 6W LED LIGHTS, BLACK.	LUMACELL-RGNX SERIES RG12NX-108-2-LD10-BK-CW1 / MQMP2NX-LD10-BK-SM

NOTES:

- 1. ALL LIGHT FIXTURES TO COME WITH LAMPS AND BALLASTS
- 2. WIRE ALL LIGHT FIXTURES AND CONTROLS AS PER MANUFACTURERS RECOMMENDATIONS.
- 3. LIGHTS TO BE MANUAL ON / MANUAL OFF AND AUTO ON/ AUTO OFF CONTROLS.
- 4. COORDINATE REQUIRED NUMBER OF POWER PACKS WITH MANUFACTURER. TO FORM COMPLETE SYSTEM.

LIGHT FIXTURE SCHEDULE

NOT TO SCALE

						PA	١NE	EL P	Α						
POWER SUPPLY: 120/208V-3Ø/4W MAINS: 125A, 100A MAIN BREAKER BREAKING CAPACITY: 22kA															MAIN BREAKER / MAIN LUG G - EQUIPMENT GROUND FAULT INTERRUPTER INTERUPTER BREAKER
DESCRIPTION	A	OAD (F	(W)	BRKR SIZE	# #	CCT	1	\forall	ССТ	BRKR SIZE	# #	A	OAD (I	C C	DESCRIPTION
RECEPTACLES	0:2			20	1	1	-	++	2	15	1	1:.0			BLOCK HEATER REC.
RECEPTACLES		0:2		20	1	3	14	 	4	15	1		1.0		BLOCK HEATER REC.
RECEPTACLES			0:2	20	1	5	+	++	6	20G	1			1:0	HEAT TRACE - FILL STATION
RECEPTACLES	0:2			20	1	7	-	++-	8	20G	1	1.0			HEAT TRACE - PIPES
EXTERIOR LIGHTS		0:3		15	1	9	1	+ +	10	15	1		0:1		ARTIC VENT REC. (PVS-1)
SUMP PUMP REC. (SSP-1)	•		0:1	15	1	11	1	++	12	15	1			0:1	TOILET PUMP
RECEPTACLES	0:2			20	1	13	-	++	14	15	1	0.1			DHW P-5
•	•	•	•	•		15		 	16		•			•	•
•	•	•	•	•		17		++	18		•			•	•
•	•		•	1	15	19	-	++	20		•			•	•
SPARE	•			1	15	21	\mid $+$	+ +	22		•				•
SPARE	•			1	15	23	+	++	24		•				•
SPARE				1	15	25	-	+	26		•				
SPARE			•	1	15	27		+ +	28		•				
SPARE		•		1	15	29	\exists	+	30						
PHASE LOAD	0:6	0:5	0.3									2.1	1:1	1:1	

POWER SUPPLY: 120/208V-3Ø/4W MAINS: 225A, 200A MAIN BREAKER BREAKING CAPACITY: 22kA												LC	BREA OCKAE N" PC	LE IN	
DESCRIPTION	L A	DAD (F	(W)	BRKR SIZE	# b	ССТ	\rightarrow	4	CCT	BRKR SIZE	<u>4</u>	A	OAD (F	(W)	DESCRIPTION
PLC PANEL	1:2	<u> </u>		15	1	1	•+	┰╏	2	15	1	0.2	•	•	GENERATOR PANEL
SPARE	 .			15	1	3		╽	4	15	1		0.2		GENERATOR BATTERY CHARGER
SPARE				15	1	5	+	┢╴┞	6	15	1			1:2	LIGHTING
						7	\downarrow	┷╏	8	15	1	0:2			LIGHTING
,						9	$\downarrow \downarrow$	┷	10	15	1		0:3		LIGHTING
,						11	+	┢╴┞	12	15L	1			0:1	EXIT LIGHTS
PLC OUTPUT POWER	0:5			15	1	13	\downarrow	╁╏	14	15	1	0:1			EXISTING CONTROL PANEL CP-02
12-EP-1 BLOCK HEATER				15	1	15	$\downarrow \downarrow$	╁╏	16	15	1		0:3		FILTRATION PUMP
12-EP-1 BATTERY CHARGER				15	1	17	+	┢╌┆	18	15	1			0:1	WASHROOM HEATER VALVE SV-01
	0:3			15	1	19	\downarrow	┷	20	15	1	0:3			GLYCOL PUMP
·UH-2		0.3		15	1	21	$\downarrow \downarrow$	╁╏	22	15	1		0.2		EF-2 CONTROL PANEL
·UH-3			0:3	15	1	23	+	┢╌┆	24	15	1			0:1	ALARM BEACON/HORN
·UH-4	0:3			15	1	25	\downarrow	╁╏	26	15	1	0:5			EMERGENCY PUMP CONTROLLER 12-EP-1
·UH-5		0.3		15	1	27	$\downarrow \downarrow$	╁╏	28	15	1				SPARE
UH-6			0:3	15	1	29	++	┝╌┞	30	15	1				SPARE
MEDIA FILTER CONTROL PANEL	0.6			15	1	31	\downarrow	╀╏	32	15	1	0:3			MIXER 14-MIX-1 REC.
SPARE				15	1	33	+	╀┆	34	15	1		0:2		PUMP 14-CFP1 REC.
SPARE				15	1	35	++	-	36	15	1			0:2	PUMP 14-CFP2 REC.
	6					37	+ +	╀┆	38			2:5			
BOILER PANELBOARD		6		60	3	39	+	╀┆	40	70	3		2:5		PUMP 12-DP-1
		•	6			41	++•	- [42					2:5	
COMM'S BOARD REC'S	0.3			15	1	43	+	╁╏	44	15	1	0:1			'10-FIT-1
12-AIT-1		0:1		15	1	45	+	┼ [46	15	1		0:1		10-FIT-4
12-AIT-2			0.1	15	1	47	++	∳-	48	15	1			0:1	12-FIT-3
,				15	1	49	+	+ $ $	50	15	1	0.1			12-FIT-5
,				15	· 1	51	+	+ $ $	52	15	1		0.1		10-AIT-1
				15	1	53	++-	∳ -	54	15	1			0.1	10-AIT-4
				15	1	55	+	 	56	15	1	0.2			PUMP 14-CFP3 REC.
				15	1	57	+	╁┞	58	15	1		0.2		PUMP 14-CFP4 REC.
				15	1	59	44	∳ -	60	15	1				
PHASE LOAD	9.2	6.7	6.7			-						4.5	3.9	4.3	

ISSUED FOR TENDER 2018.OCT.05 Ckd. By Date

PERMIT OF PRACTICE EXP SERVICES INC. Oct 12, 2018 PERMIT NUMBER: P483 NT/NU Association of Professional Engineers and Geoscientists

ISSUED FOR TENDER



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 BUILDINGS • EARTH & ENVIRONMENT • ENERGY • • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

GOVERNMENT OF NUNAVUT RESOLUTE BAY SIGNAL HILL WATER TREATMENT PLANT TENDER #172620-00474

WATER TREATMENT PLANT LIGHTING PLAN AND PANEL SCHEDULES

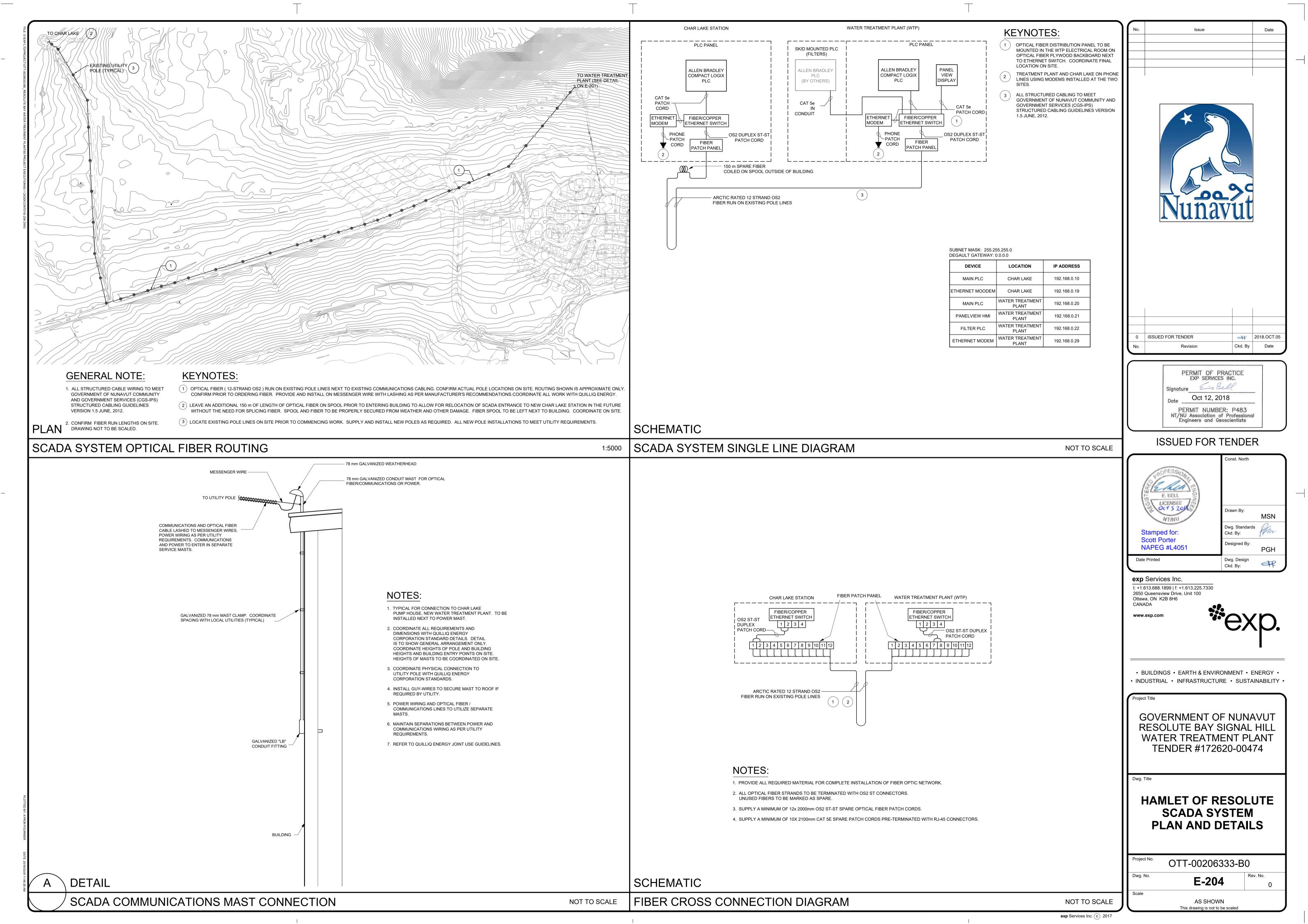
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E-203

PANEL SCHEDULES

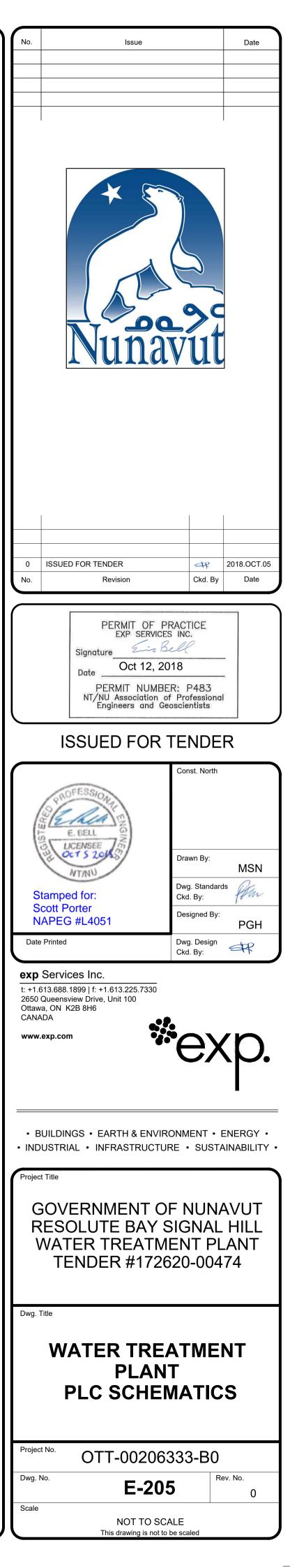
NOT TO SCALE

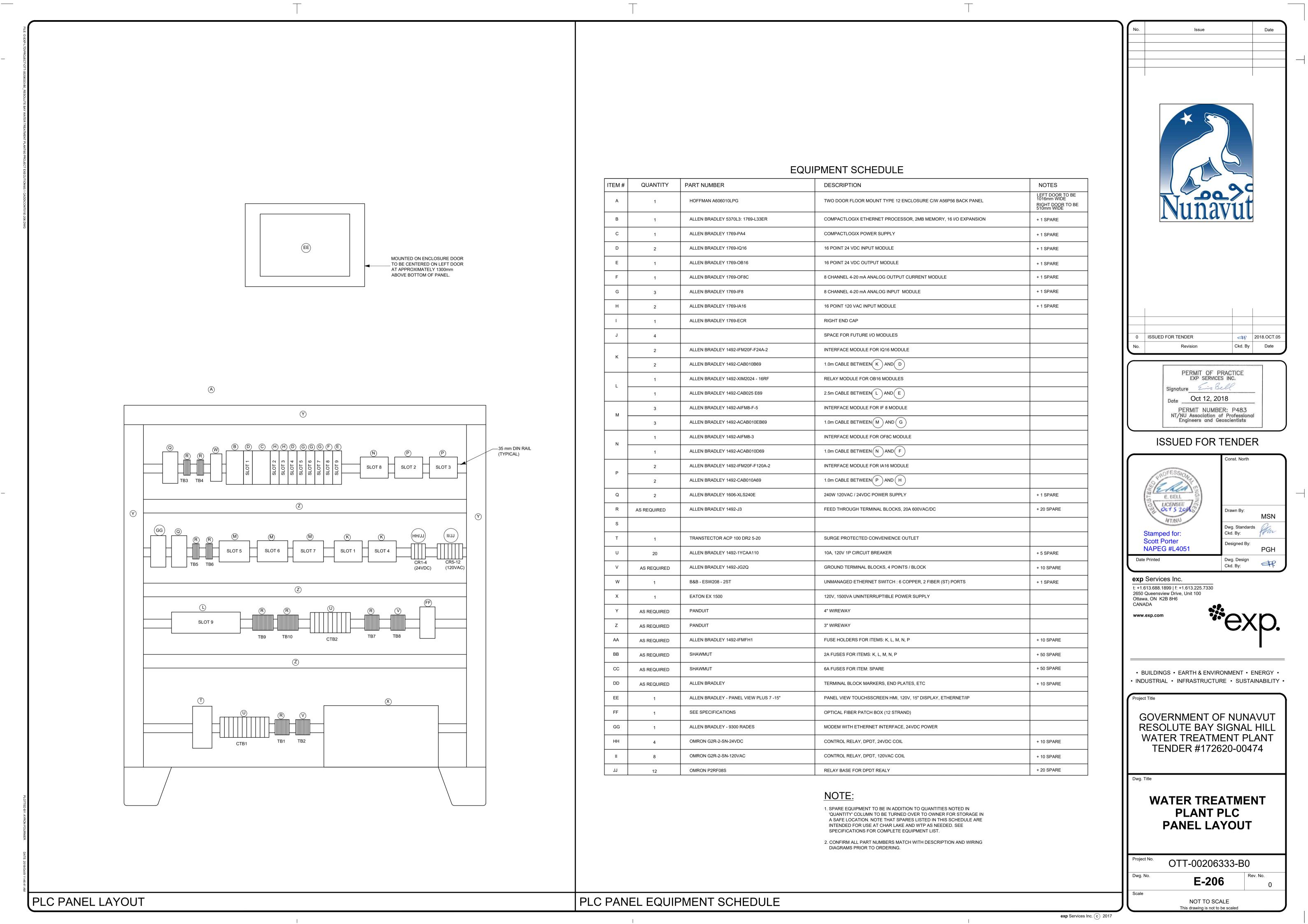


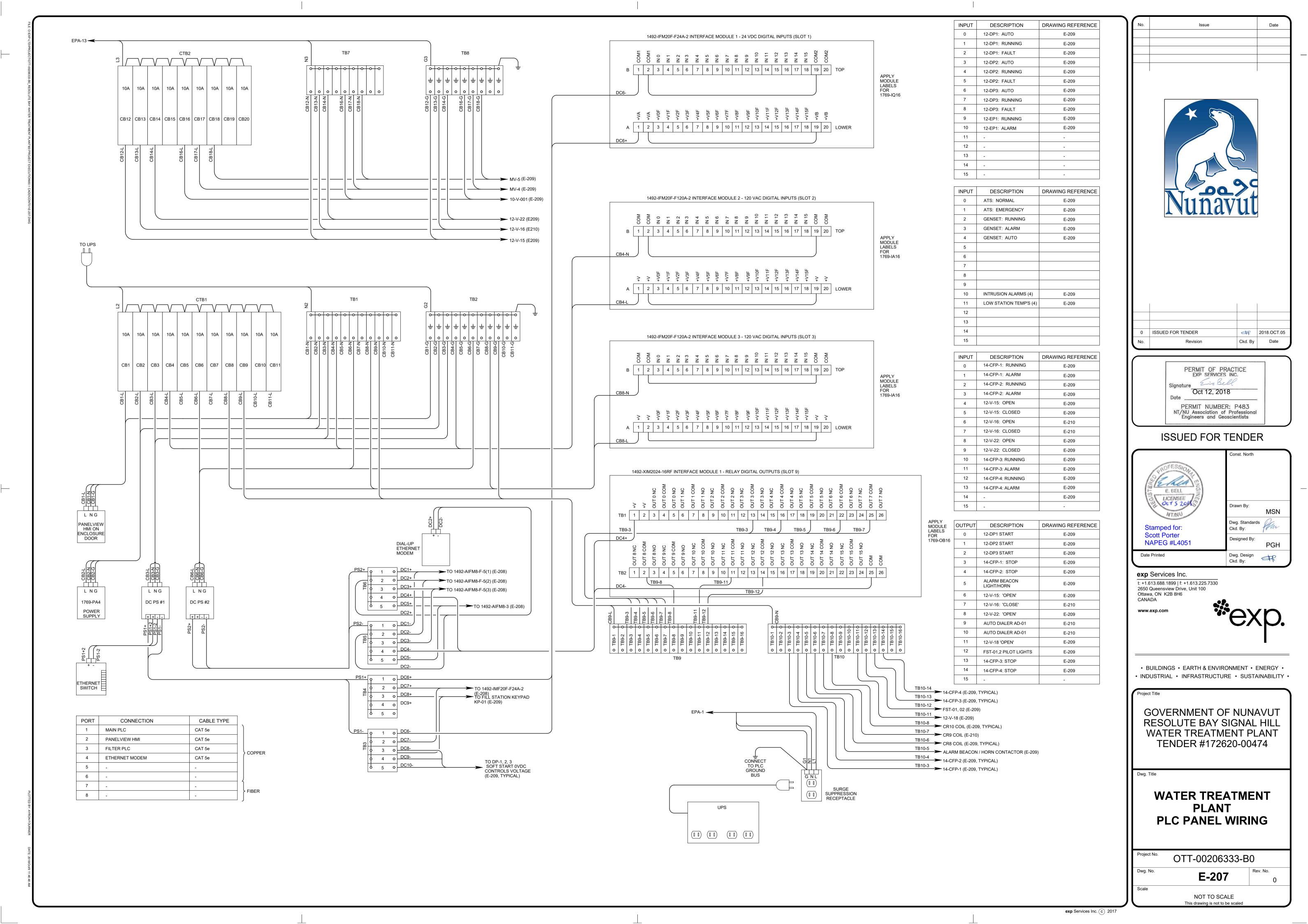
DO DO OF FAMER	3x DI, 1x DO		DP1 SOFT STARTER
March Marc	3x DI, 1x DO		
Section Colors	3x DI, 1x DO		
200 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	2 x DI		
MATERIAL CONTROL FAMILY CONTROL FA	2x DI, 1x DO, 1x AO		
TECHNIS SECULAR ALASM 1517	2x DI, 1x DO, 1x AO		
DOTEST PART OF DE A ARME	DI		
MATERIAL AND MATE	2x DI		
200	2x DI		
SOFT TRANS. CONTROL NAME	2x DI		DAY TANK 1 CONTROL PANEL
AUTOMATIC TRANSPER SWITCH Siz	2x DI		DAY TANK 2 CONTROL PANEL
DO	2x DI		
ALMAN BLOCK LEBITHON TATALOG ALARM ALCON ALBITHON	3x DI		
DI	DO		
CONTENERATION FREEZE STATS (C)	DI		
A	DI		
M	Al		
A	AI	_0	
AI	AI		
M	Al		
AI	Al		
N	Al		(TURBIDITY)
10.0FT21		—O	
A		—	10-DPIT-21
12-FT-4		$-\!\!\!-\!\!\!\!-$	12-TT-1
AI			
AI			12-AIT-1 (CHLORINE)
AI		$\overline{}$	12-PIT-2
12-Fit-3 12-Ait-2 12-		-	12-TT-2
AI			12-FIT-3
AI			12-AIT-2 (CHLORINE)
TURBIDITY			10-AIT-3
AI			10-AIT-4 (TURBIDITY)
AO	2x DI, 1x DO	—	12-V-22 (WIRED TO FAIL CLOSED) (FILL STATION)
AI	Al	—	12-FIT-5 (FILL STATION)
10-LT-1 (RESERVOIR)	AO	—	10-V-001
AI	Al	—	10-LT-1 (RESERVOIR)
(TANK T2)	AI	—O	10-TT-4
## FILL STATION KEYPAD KP-01 2x DI, 1x DO	AI	—O	
2x DI, 1x DO 2x DI, 1x DO 12-V-16 (WIRED TO FAIL OPEN) 12-V-15 (WIRED TO FAIL CLOSE) CLOSED) 12-V-18 (CLOSE) FILL STATION DRAIN 2x DO AUTO DIALER DA-01 STATIONS: FST-01, FST-02 AO MV-4 AO 2x DI, 1x DO, 1x AO 14-CFP-3 14-CFP-4	4x DI		FILL STATION
2x DI, 1x DO 12-V-15 (WIRED TO FAIL CLOSED) DO 12-V-18 (CLOSE) FILL STATION DRAIN 2x DO AUTO DIALER DA-01 FILL STATION START/STOP STATIONS: FST-01, FST-02 AO MV-4 AO 2x DI, 1x DO, 1x AO 14-CFP-3 14-CFP-4	2x DI, 1x DO	_ —∏	12-V-16 (WIRED TO FAIL
DO	2x DI, 1x DO		12-V-15 (WIRED TO FAIL
2x DO AUTO DIALER DA-01 3x DI, 1x DO FILL STATION START/STOP STATIONS: FST-01, FST-02 AO MV-4 AO MV-5 2x DI, 1x DO, 1x AO 14-CFP-3 14-CFP-4	DO		12-V-18 (CLOSE)
3x DI, 1x DO FILL STATION START/STOP STATIONS: FST-01, FST-02 AO MV-4 AO MV-5 2x DI, 1x DO, 1x AO 14-CFP-3 14-CFP-4	2x DO		
AO MV-4 AO MV-5 2x DI, 1x DO, 1x AO 14-CFP-3 2x DI, 1x DO, 1x AO 14-CFP-4	3x DI, 1x DO		FILL STATION START/STOP
AO	AO		
2x DI, 1x DO, 1x AO 14-CFP-3 2x DI, 1x DO, 1x AO 14-CFP-4	AO		
2x DI, 1x DO, 1x AO 14-CFP-4	2x DI, 1x DO, 1x AO		
	2x DI, 1x DO, 1x AO		
N	NOTES:	—	14-UFP-4

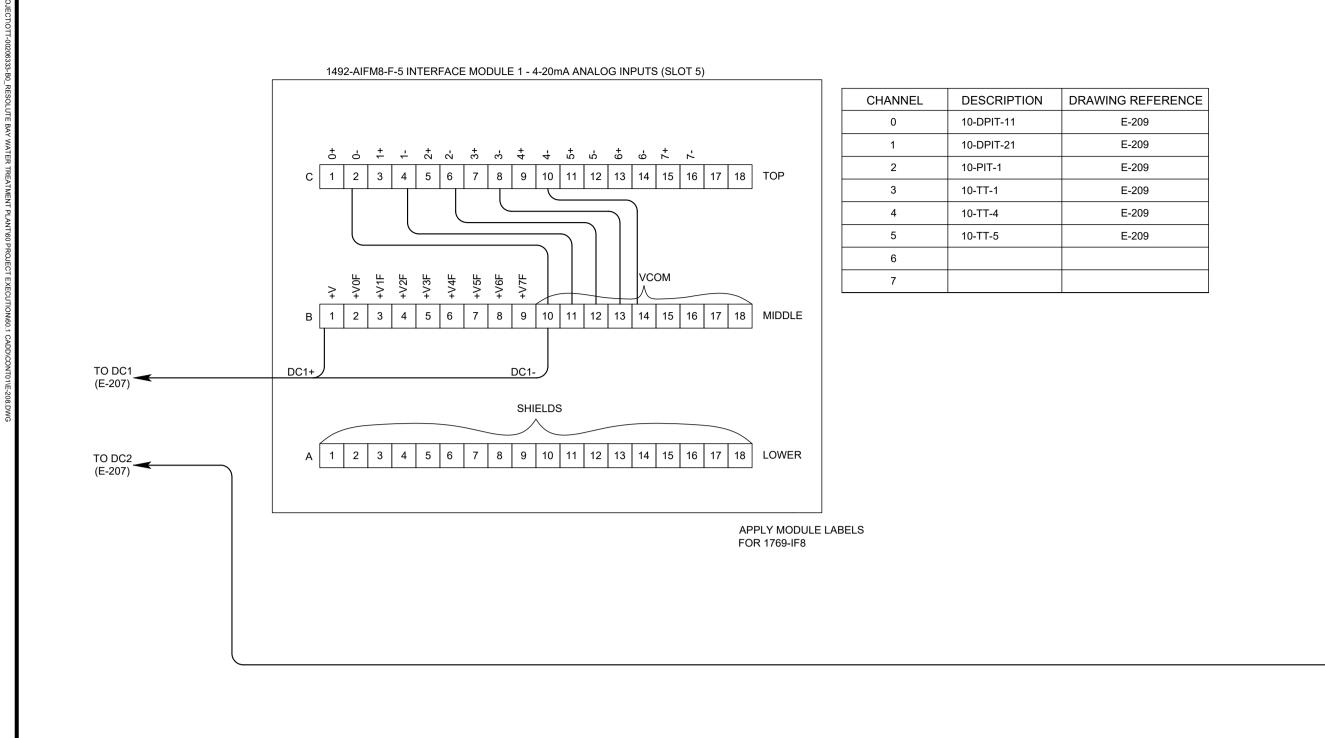
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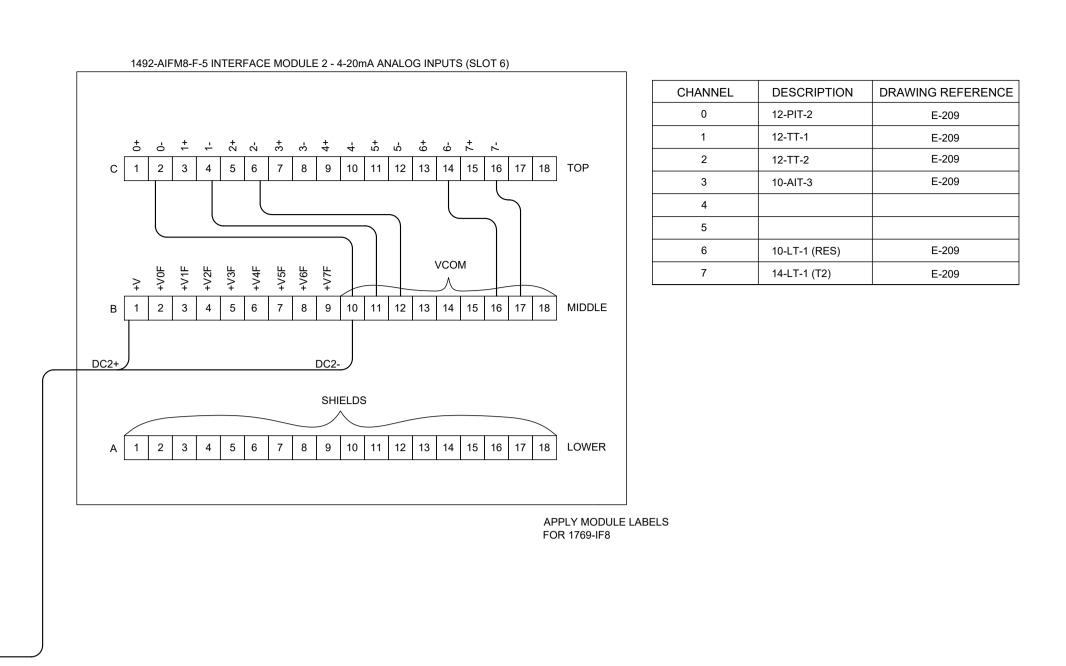
WATER TREATMENT PLANT PLC I/O BLOCK DIAGRAM

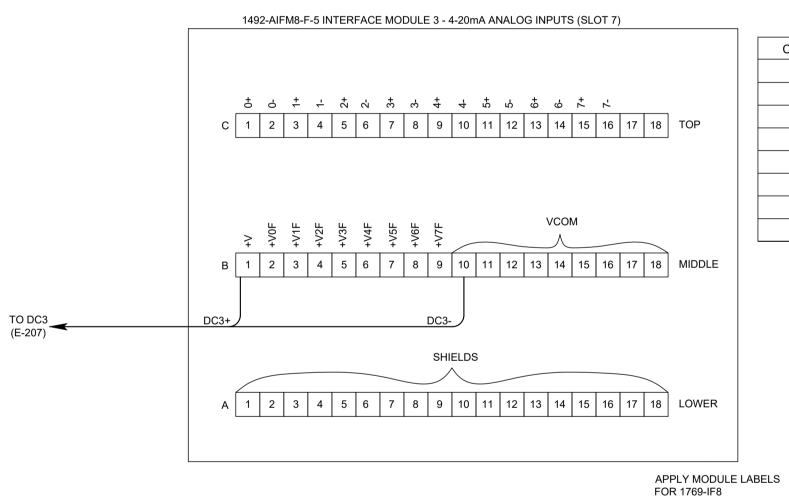




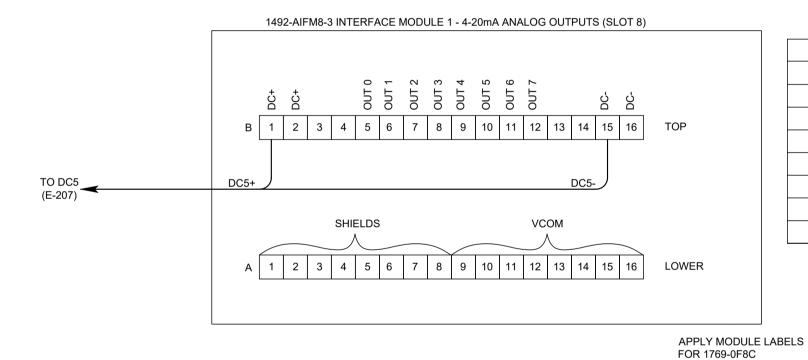








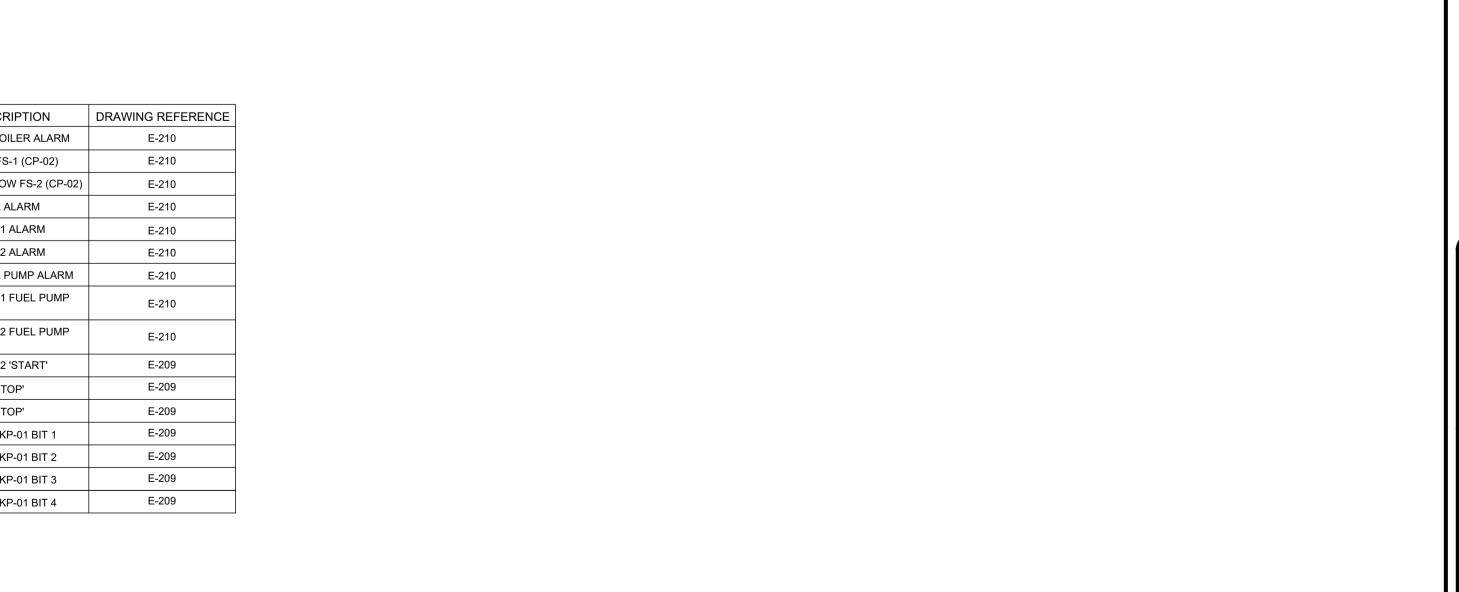
CHANNEL	DESCRIPTION	DRAWING REFERENCE
0	10-AIT-4 (TURB)	E-209
1	10-AIT-1 (TURB)	E-209
2	12-FIT-4	E-209
3	12-FIT-5	E-209
4	10-FIT-1	E-209
5	12-FIT-3	E-209
6	12-AIT-1 (CL)	E-209
7	12-AIT-2 (CL)	E-209



			_	
CHANNEL	DESCRIPTION	DRAWING REFERENCE		
0	14-CFP-1: SPEED	E-209		
1	14-CFP-2: SPEED	E-209]	OFF M OFFIEO PRAMINOS
2	10-V-001	E-209		SEE M-SERIES DRAWINGS FOR LOCATION OF VALVES
3	MV-4	E-209		
4	MV-5	E-209		
5	14-CFP-3: SPEED	E-209]	
6	14-CFP-4: SPEED	E-209]	
7		-]	

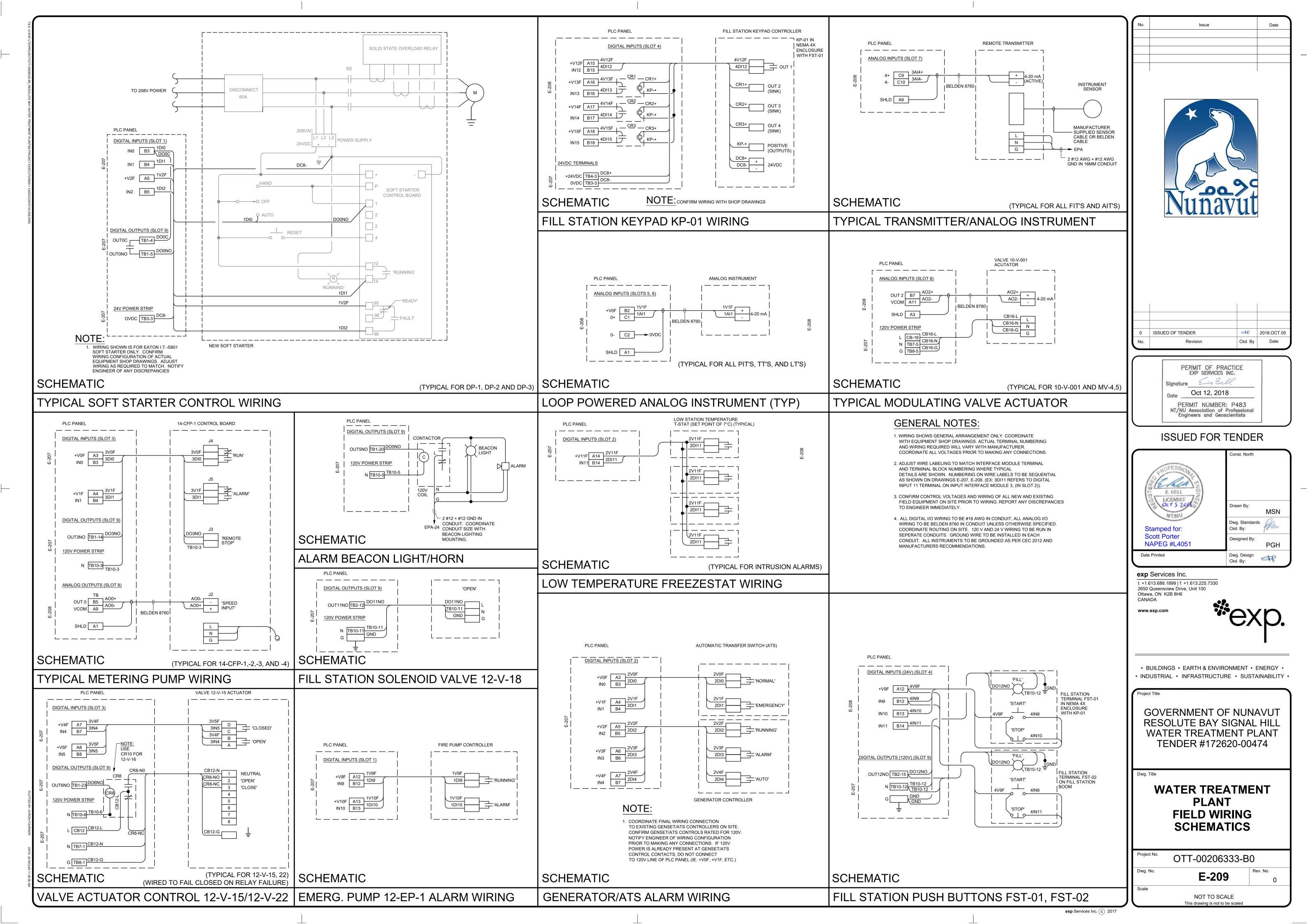
	1492-IFM20F-F24A-2 INTERFACE MODULE 4 - 24 VDC DIGITAL INPUTS (SLOT 4)	
		PPLY ODULE
	DC7-	ABELS OR '69-IQ16
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
TO DC7 (E-207)	DC7+	

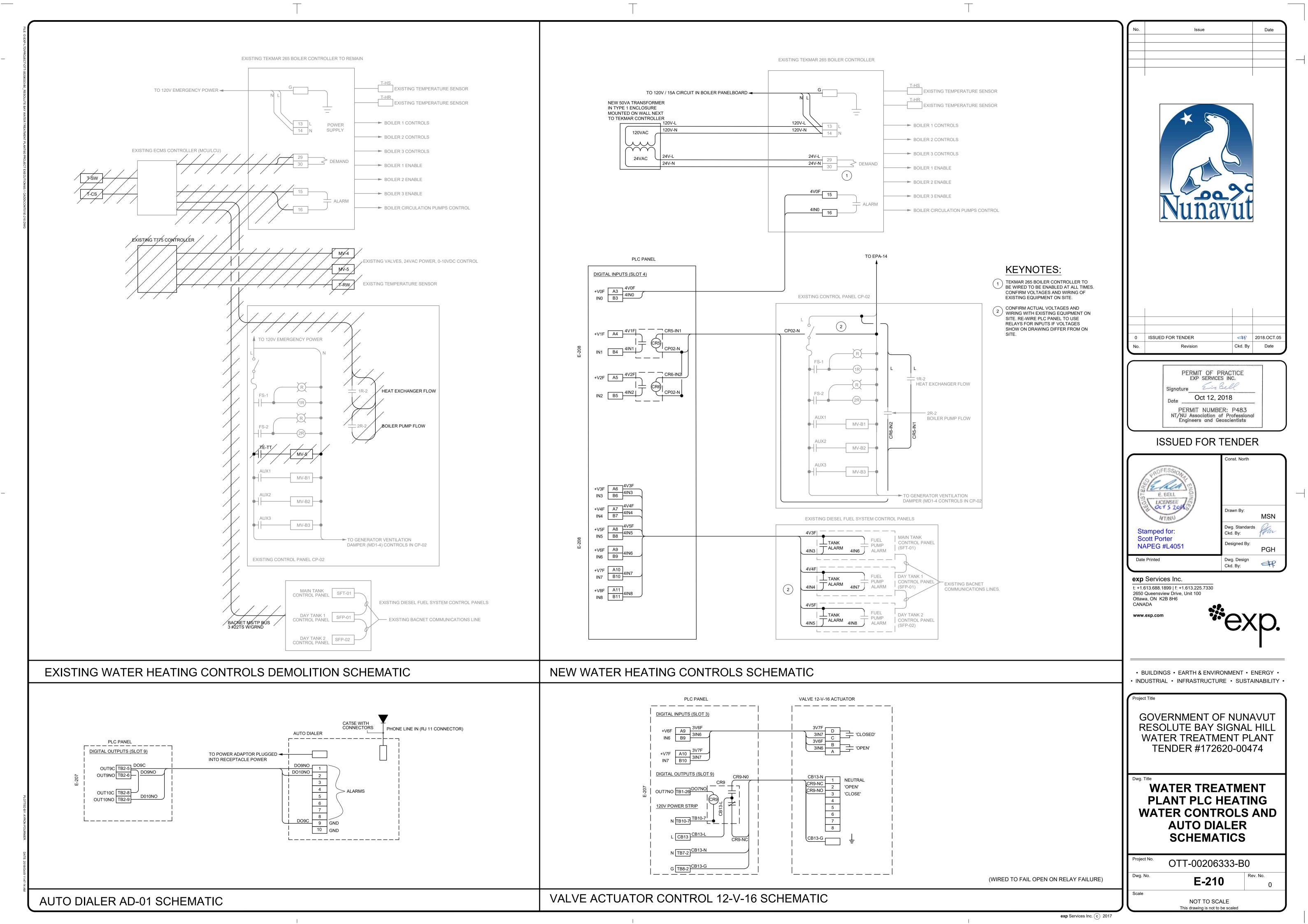
INPUT	DESCRIPTION	DRAWING REFERENCE
0	TEKMAR BOILER ALARM	E-210
1	HX FLOW FS-1 (CP-02)	E-210
2	BOILER FLOW FS-2 (CP-02)	E-210
3	MAIN FUEL ALARM	E-210
4	DAY TANK 1 ALARM	E-210
5	DAY TANK 2 ALARM	E-210
6	MAIN FUEL PUMP ALARM	E-210
7	DAY TANK 1 FUEL PUMP ALARM	E-210
8	DAY TANK 2 FUEL PUMP ALARM	E-210
9	FST-01, 02 'START'	E-209
10	FST-01 'STOP'	E-209
11	FST-02 'STOP'	E-209
12	KEYPAD KP-01 BIT 1	E-209
13	KEYPAD KP-01 BIT 2	E-209
14	KEYPAD KP-01 BIT 3	E-209
15	KEYPAD KP-01 BIT 4	E-209

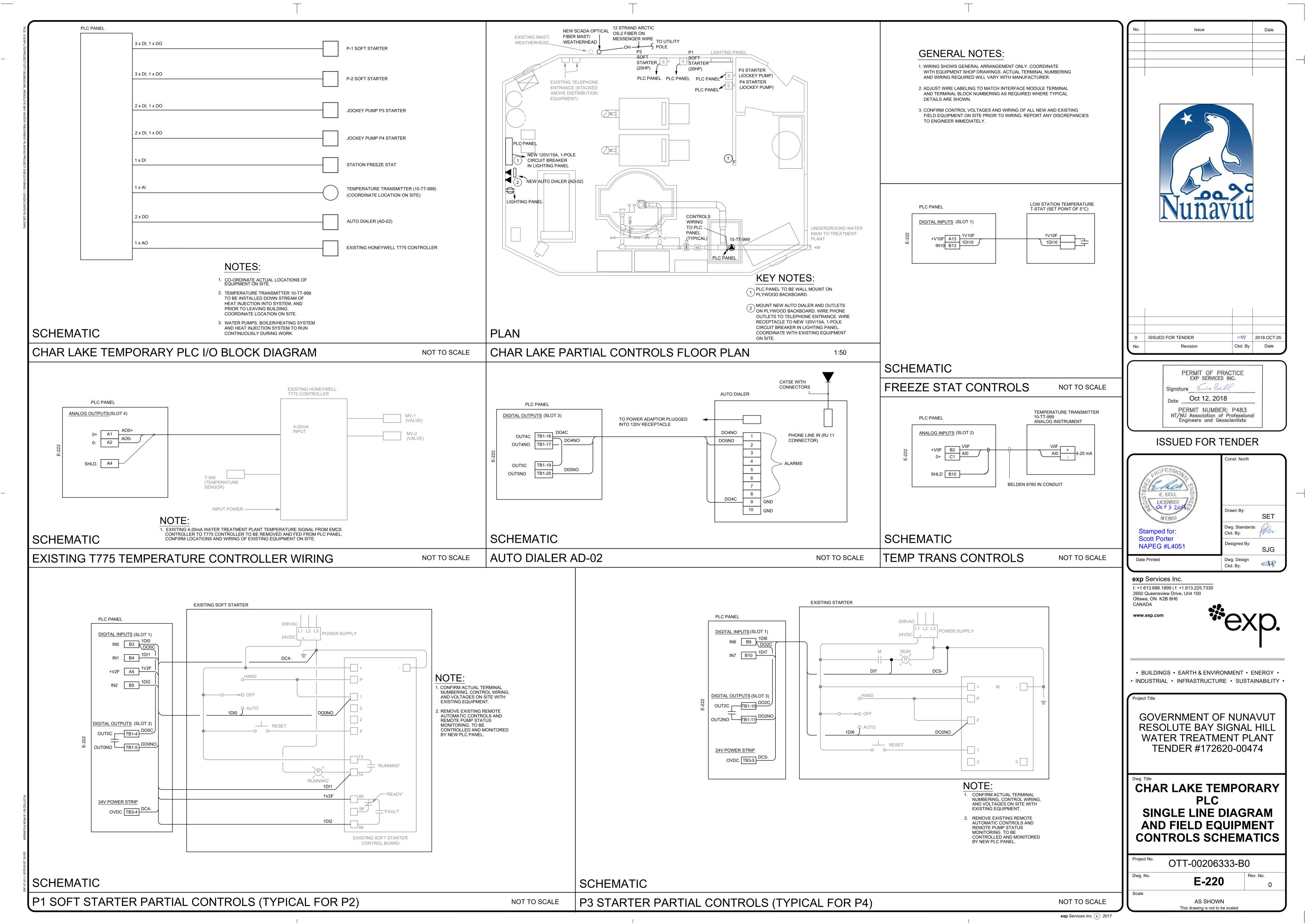




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EQUIPMENT SCHEDULE QUANTITY PART NUMBER HOFFMAN A603610LP SINGLE DOOR WALL MOUNT TYPE 12 ENCLOSURE C/W A60P36 BACK PANEL ALLEN BRADLEY 5370L3: 1769-L33ER COMPACTLOGIX ETHERNET PROCESSOR, 2MB MEMORY, 16 I/O EXPANSION ALLEN BRADLEY 1769-PA4 COMPACTLOGIX POWER SUPPLY ALLEN BRADLEY 1769-IQ16 16 POINT 24 VDC INPUT MODULE ALLEN BRADLEY 1769-OB16 16 POINT 24 VDC OUTPUT MODULE

4 CHANNEL 4-20mA ANALOG OUTPUT MODULE +1 SPARE ALLEN BRADLEY 1769-OF4 ALLEN BRADLEY 1769-IF8 8 CHANNEL 4-20 mA ANALOG INPUT MODULE ALLEN BRADLEY 1769-ECR RIGHT END CAP

INTERFACE MODULE FOR OF4

1.0m CABLE BETWEEN (J)AND (F) ALLEN BRADLEY 1492-ACAB010-AD69 INTERFACE MODULE FOR IQ16 MODULE ALLEN BRADLEY 1492-IFM20F-F24A-2 1.0m CABLE BETWEEN K AND D ALLEN BRADLEY 1492-CAB010B69 RELAY MODULE FOR OB16 MODULES ALLEN BRADLEY 1492-XIM2024 - 16RF ALLEN BRADLEY 1492-CAB025 E69 2.5m CABLE BETWEEN (L)AND (E) ALLEN BRADLEY 1492-AIFM8-F-5 INTERFACE MODULE FOR IF 8 MODULE 1.0m CABLE BETWEEN M AND G ALLEN BRADLEY 1492-ACAB010EB69

ALLEN BRADLEY 1492-AIFM4-3

TRANSTECTOR ACP 100 DR2 5-20

ALLEN BRADLEY 1492-1YCAA110

ALLEN BRADLEY 1492-JG2Q

ALLEN BRADLEY-9300 RADES

OMRON G2R-2-SN-24VDC

OMRON G2R-2-SN-120VAC

OMRON P2RF08S

AS REQUIRED

AS REQUIRED

GG

ALLEN BRADLEY 1606-XLS240E 240W 120VAC / 24VDC POWER SUPPLY AS REQUIRED ALLEN BRADLEY 1492-J3 FEED THROUGH TERMINAL BLOCKS, 20A 600VAC/DC

10A, 120V 1P CIRCUIT BREAKER

SURGE PROTECTED CONVENIENCE OUTLET

GROUND TERMINAL BLOCKS, 4 POINTS / BLOCK

MODEM WITH ETHERNET INTERFACE, 24VDC POWER

RELAY BASE FOR DPDT RELAY, DIN RAIL MOUNT

CONTROL RELAY, DPDT, 24VDC COIL

CONTROL RELAY, DPDT, 120VAC COIL

B&B-ESW208-2ST UNMANAGED ETHERNET SWITCH : 6 COPPER, 2 FIBER(ST) PORTS 120V, 1500VA UNINTERRUPTIBLE POWER SUPPLY EATON EX 1500 AS REQUIRED AS REQUIRED ALLEN BRADLEY 1492-IFMFH1 FUSE HOLDERS FOR ITEMS: L, N, O 2A FUSES FOR ITEMS: L, O PLUS SPARE AS REQUIRED AS REQUIRED 6A FUSES FOR ITEM: N PLUS SPARE DD AS REQUIRED ALLEN BRADLEY TERMINAL BLOCK MARKERS, END PLATES, ETC EE FF SEE SPECIFICATIONS OPTICAL FIBER PATCH BOX (12 STRAND)

(z)(C) (D) (G) (E) (F) TB3 \bigcirc Z (SLOT 1) (SLOT 2) (SLOT 4) CR1-4 (24VDC) CR5-8 (120VAC) (z)TB1 TB2 (z)T (x)

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Oct 12, 2018 PERMIT NUMBER: P483 NT/NU Association of Professional Engineers and Geoscientists

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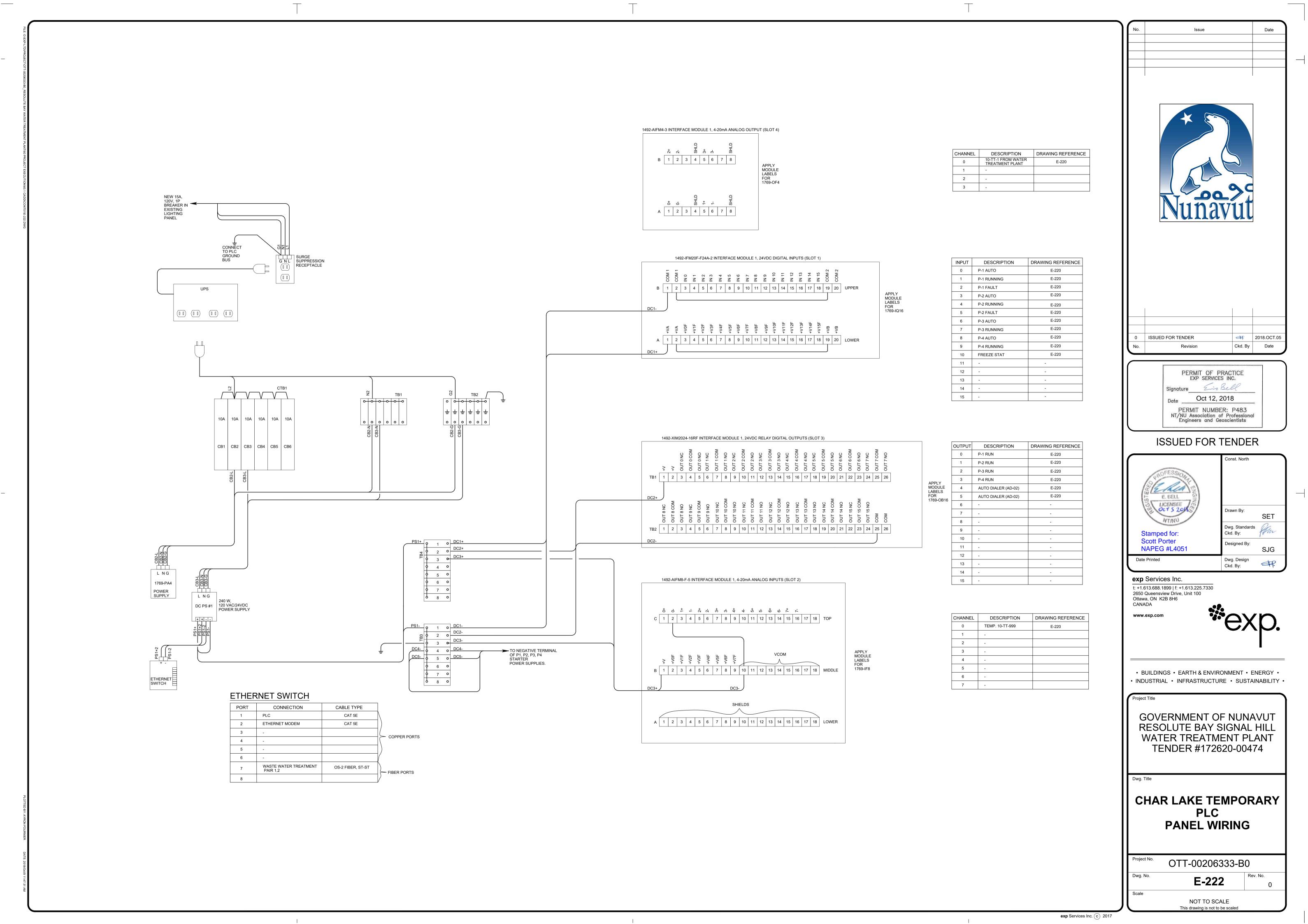
GOVERNMENT OF NUNAVUT RESOLUTE BAY SIGNAL HILL WATER TREATMENT PLANT TENDER #172620-00474

CHAR LAKE TEMPORARY **PLC PANEL LAYOUT**

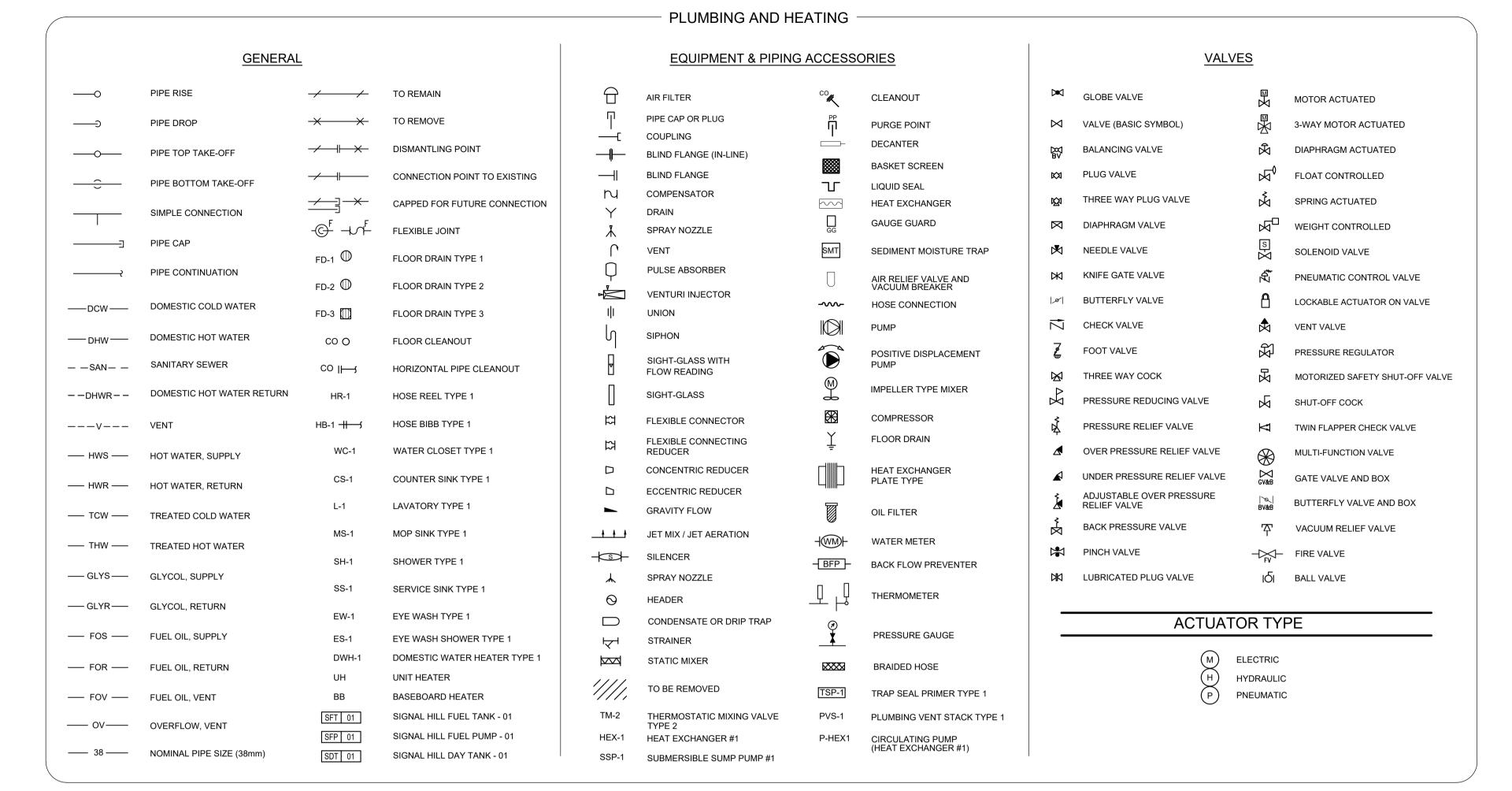
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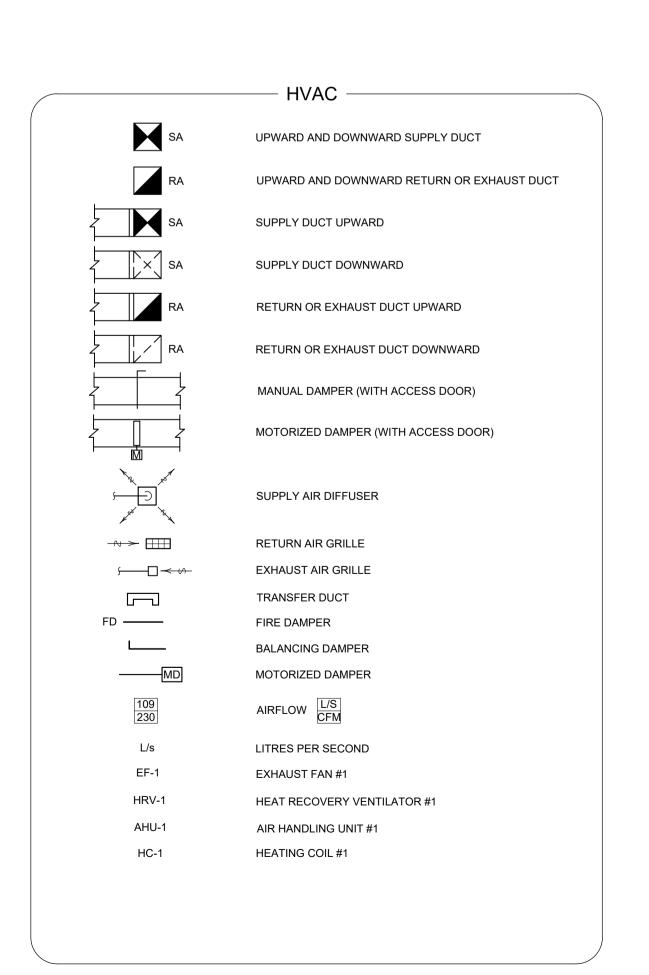
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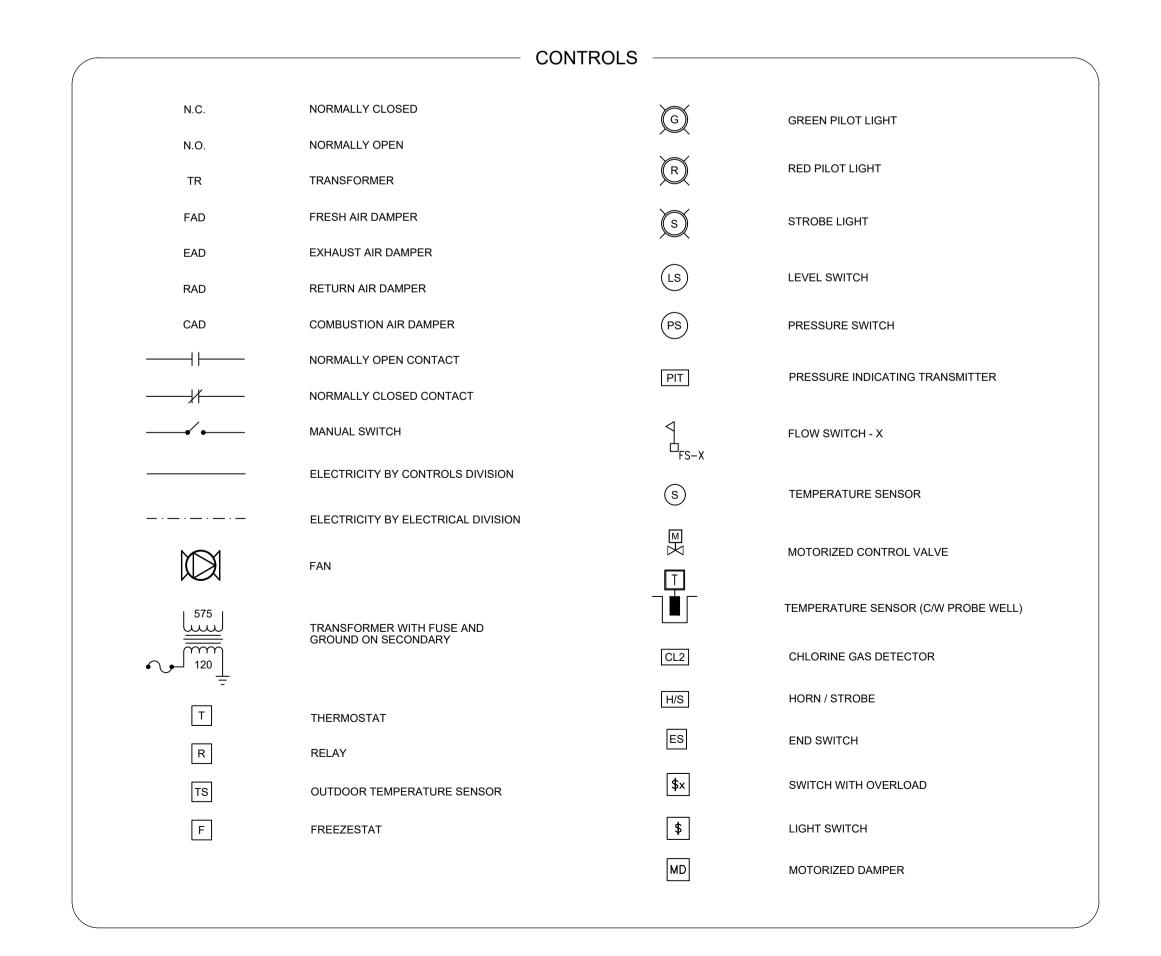
PLC PANEL LAYOUT AND SCHEDULE

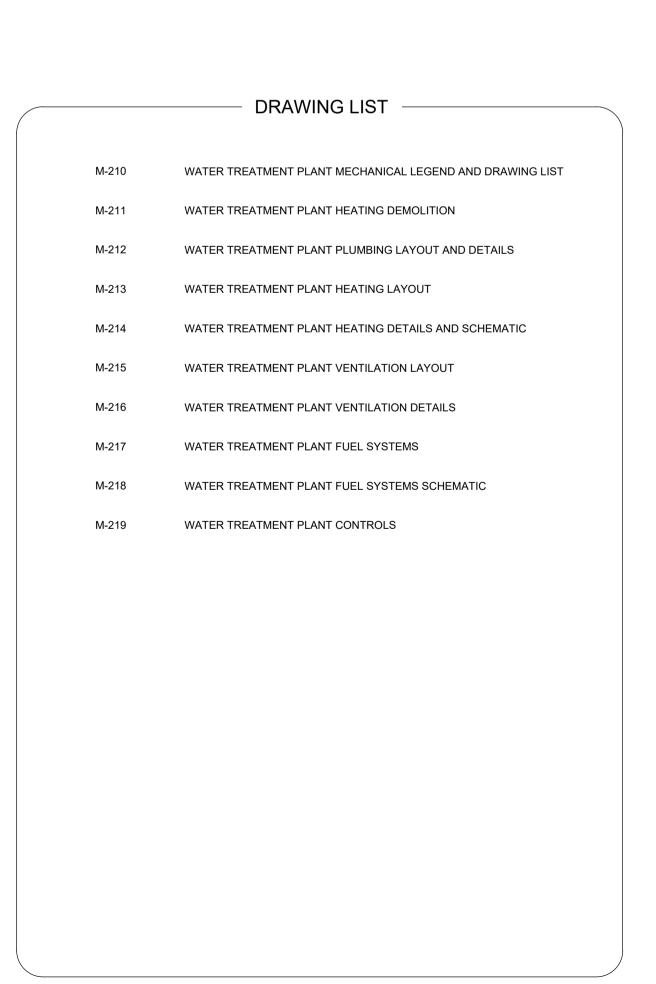


ABBREVIATIONS -JOCKEY PUMP JET RECIRCULATION ANALYSIS ALARM AUTOMATIC AIR VENT ANALYSIS CONTROL OR AIR COMPRESSOR JRP-JET RECIRCULATION PUMP TIMER CONTROLLER ANALYSIS ELEMENT AHLR - ALARM HIGH/LOW RECORDING LEVEL ALARM HIGH LEVEL ALARM LOW ALARM HIGH/HIGH LEVEL ALARM HIGH / LOW ANALYSIS INDICATOR LEVEL ALARM RECORDER INDICATOR LEVEL CONTROLLER ANALYSIS INDICATING TRANSMITTER LOCAL CONTROL PANEL ALARM LOW I EVEL ELEMENT LEVEL INDICATOR AUGER MOTOR LEVEL INDICATING TRANSMITTER AIR OPERATED VALVE ANALYSIS RECORDER LEVEL RECORDER LEVEL RECORDER/INDICATOR ANAYLSIS RECORDER/INDICATOR LEVEL SWITCH LEVEL SWITCH CLOSED OR ANAFROBIC REACTOR INFI UENT LEVEL SWITCH HIGH AIR RECEIVER TANK LEVEL SWITCH LOW AIR RELIEF AND VACUUM BREAKER MODULATING CONTROL VALVE MEDIA FILTER AUTOMATIC SAMPLER BELT CONVEYOR BACK FLUSH MULTI FUNCTION VALVE MOTORIZED VALVE NORMALLY CLOSED NORMALLY OPEN BASKET SCREEN BUILDING SUMP PUMP NORMAL WATER LEVEL BLOCKING SAFETY VALVE BULK VOLUME FERMENTE BOOSTER WATER PUMP OPEN/CLOSE VALVE PRESSURE ALARM HIGH COMPRESSED AIR COMPRESSED AIR DRYER PRESSURE ALARM LOW PAM-POLYMER SYSTEM CALIBRATION COLUMN CONDENSATE DRAIN PRESSURE CONTROLLER PRESSURE ELEMENT CARTRIDGE FILTER CARTRIDGE FILTER BANK CHEMICAL FEED PUMP CHECK VALVE PRESSURE GAUGE OR PROPANE GAS PH AND TEMPERATURE PRESSURE INDICATING TRANSMITTER PROGRAMMABLE LOGIC CONTROLLER **CONTROL PANEL CONTROL STATION** PRESSURE RECORDER/INDICATOR CONTROL VALVE PRESSURE RELIEF OR REDUCING VALVE DCS-DISTRIBUTED CONTROL SYSTEM PRESSURE SWITCH PRESSURE SWITCH HIGH DISSOLVED OXYGEN PRESSURE TRANSMITTER DISTRIBUTION PUMP DPG-DIFFERENTIAL PRESSURE GAUGE QUICK CONNECT OR DIGITAL PRESSURE GAUGE SOLENOID DRAIN SUMP SEWAGE AIR RELIEF VALVE DRAIN SUMP PUMP SPEED CONTROLLER/VFD OR SCREEN SINGLE FUEL BOILER DRIP TRAP SUCTION GUIDE OR SIGHT GLASS **EXPANSION JOINT EMERGENCY OVERFLOW** STATIC MIXER **EXPANSION TANK** SAMPLER PUMP SAMPLE POINT OR SOLUTION PUMP SAMPLE TAP FLOW ALARM FLOW ALARM LOW FLOW CONTROLLER OR FLAME CHECK STRAINER OR FILISH CONNECTION SOLENOID VALVE FLOW CONTROL VALVE TEMPERATURE TEMPERATURE ALARM FLOOR DRAIN FLOW ELEMENT TEMPERATURE ALARM HIGH FLOW INDICATOR FLOW INDICATING TRANSMITTER TEMPERATURE CONTROLLER TEMPERATURE ELEMENT FLOAT VALVE FLOWMETER TEMPERATURE GAUGE TEMPERATURE INDICATOR TEMPERATURE INDICATING TRANSMITTER FLOW QUANTITY INDICATOR FLOW QUANTITY RECORDER FLOW QUANTITY RECORDER/INDICATOR TEMPERATURE INDICATING SWITCH TEMPERATURE RECORDER/INDICATOR TEMPERATURE SWITCH OR TUBE SETTLER FILL VALVE OR FOOT VALVE FLUSH WATER TEMPERATURE TRANSMITTER GAS ELIMINATION CHAMBER VARIABLE FREQUENCY DRIVE GV&B-GATE VALVE AND BOX HOSE BIB HEATING PUMP HAND SWITCH **EVENT ALARM** EVENT/STATUS CONTROLLER EVENT SWITCH HEAT EXCHANGER LIMIT SWITCH CURRENT CONTROLLER LIMIT SWITCH LOW LIMIT SWITCH CLOSED LIMIT SWITCH OPEN INFLUENT **VENTURI INJECTOR** INFLUENT PUMP ZSOC - LIMIT SWITCH OPEN/CLOSED CURRENT TRANSMITER INJECTION VALVE

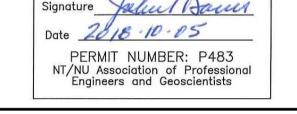








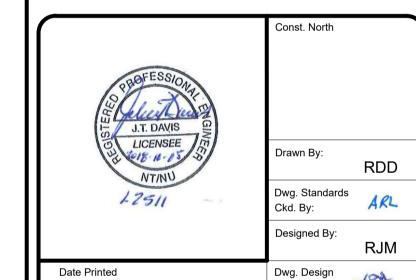




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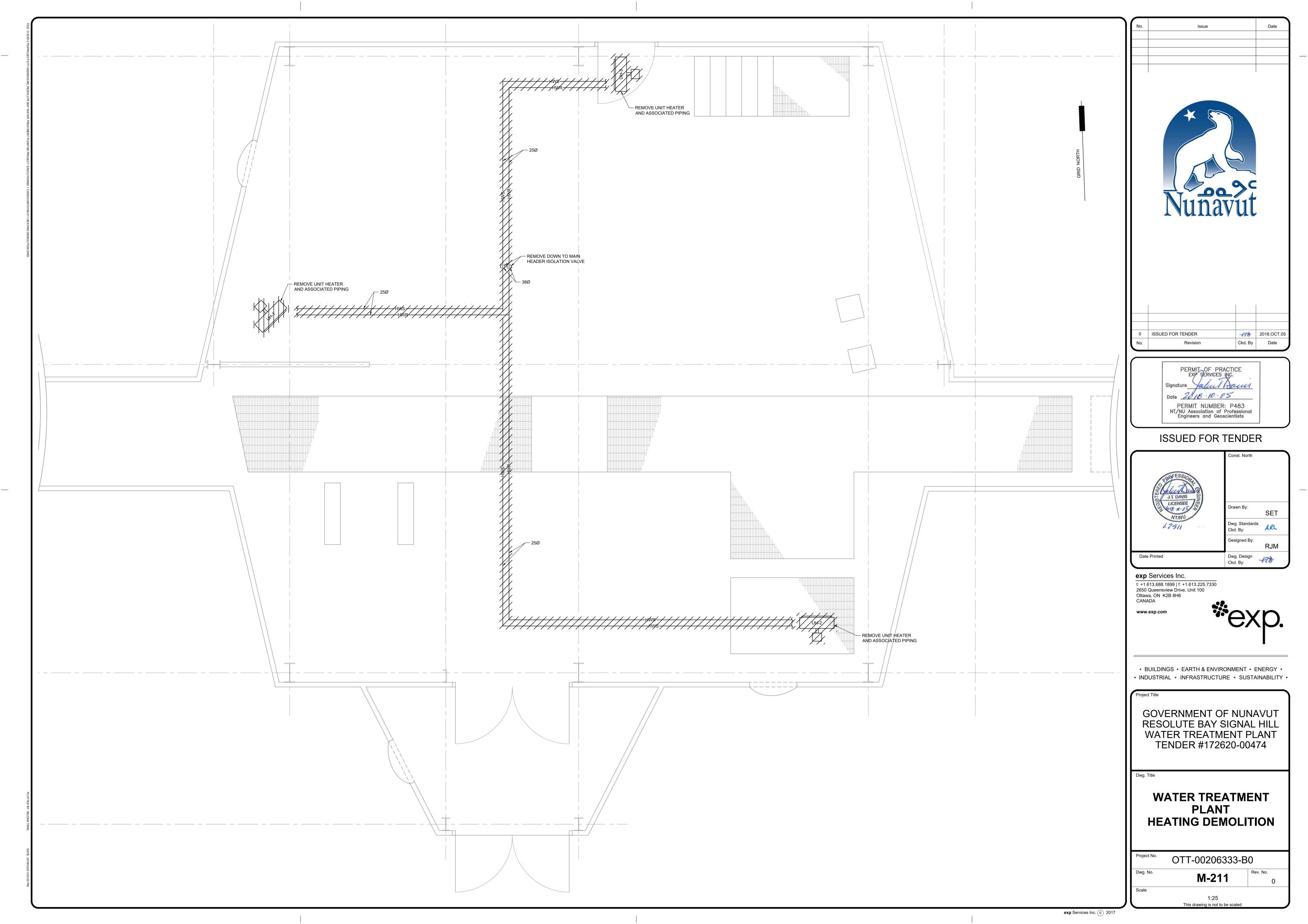
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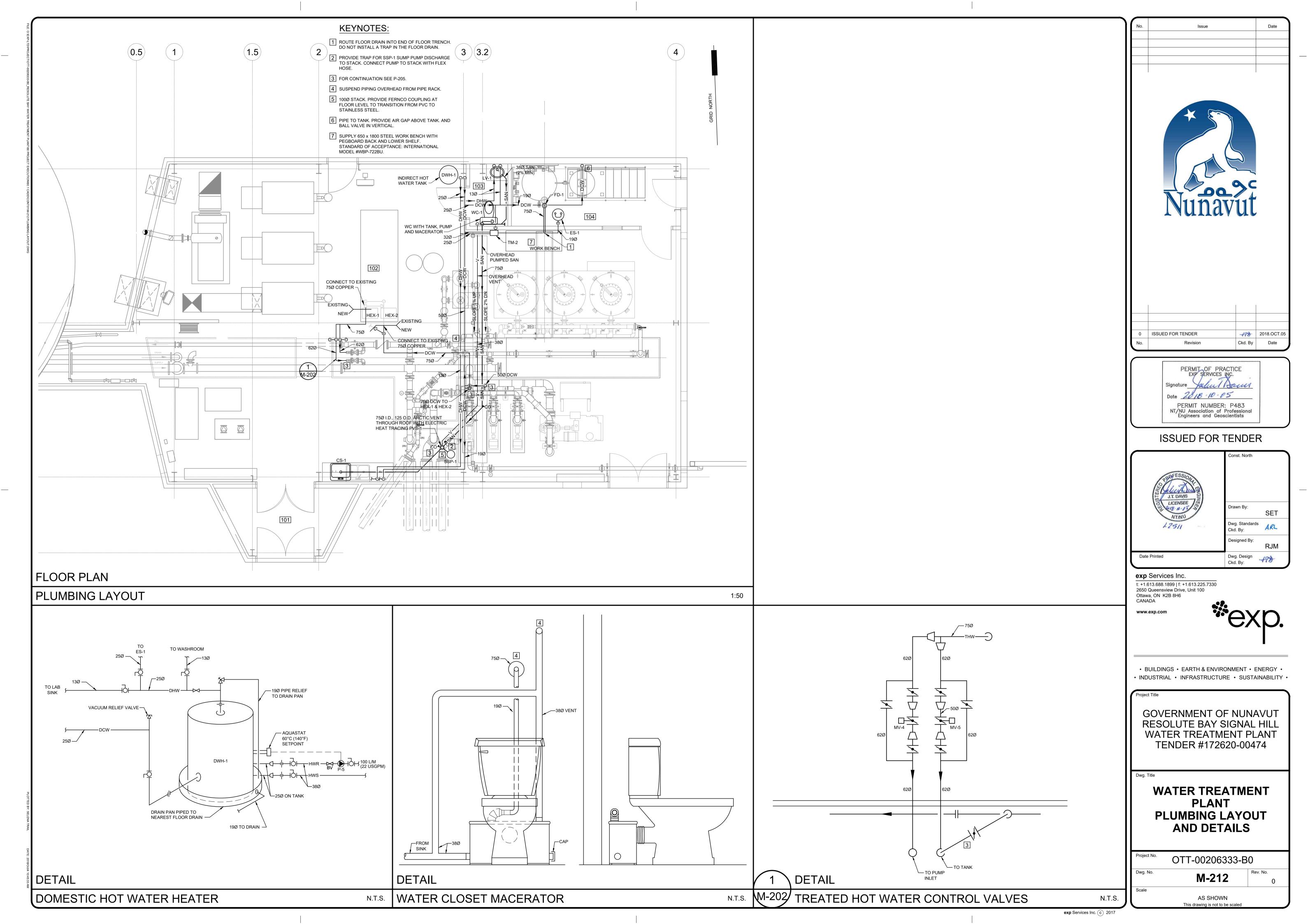
GOVERNMENT OF NUNAVUT RESOLUTE BAY SIGNAL HILL WATER TREATMENT PLANT TENDER #172620-00474

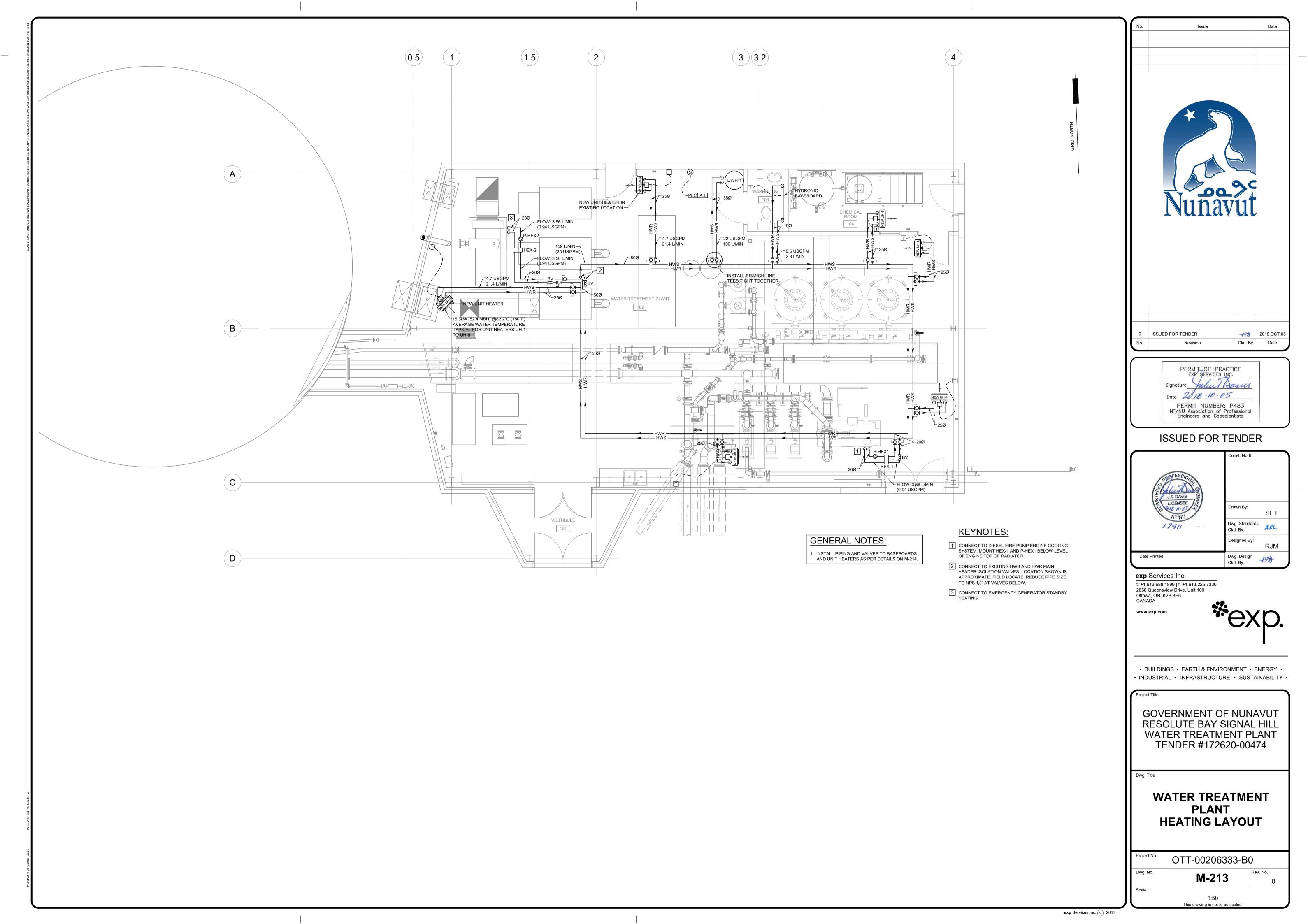
WATER TREATMENT **PLANT MECHANICAL LEGEND** AND DRAWING LIST

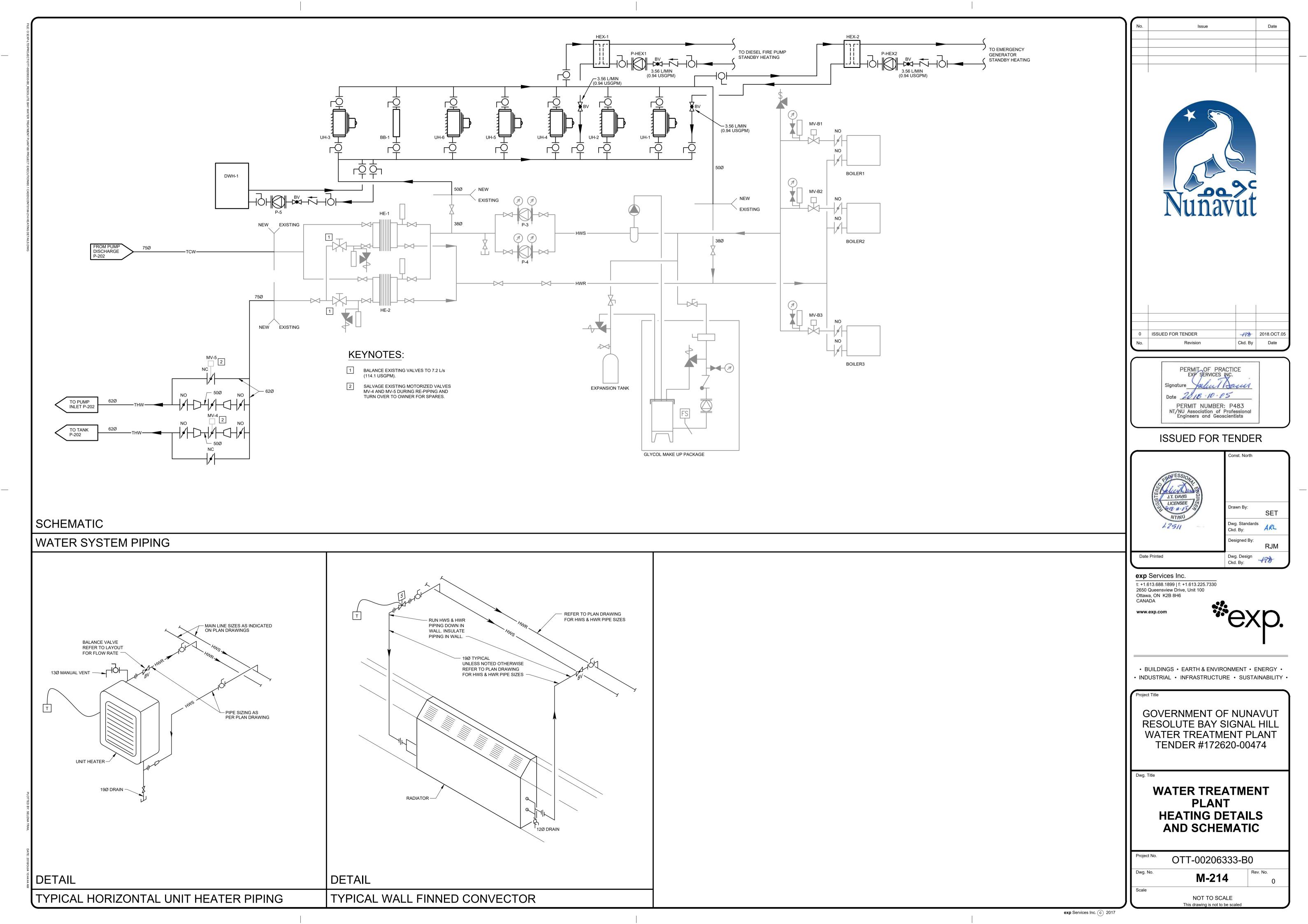
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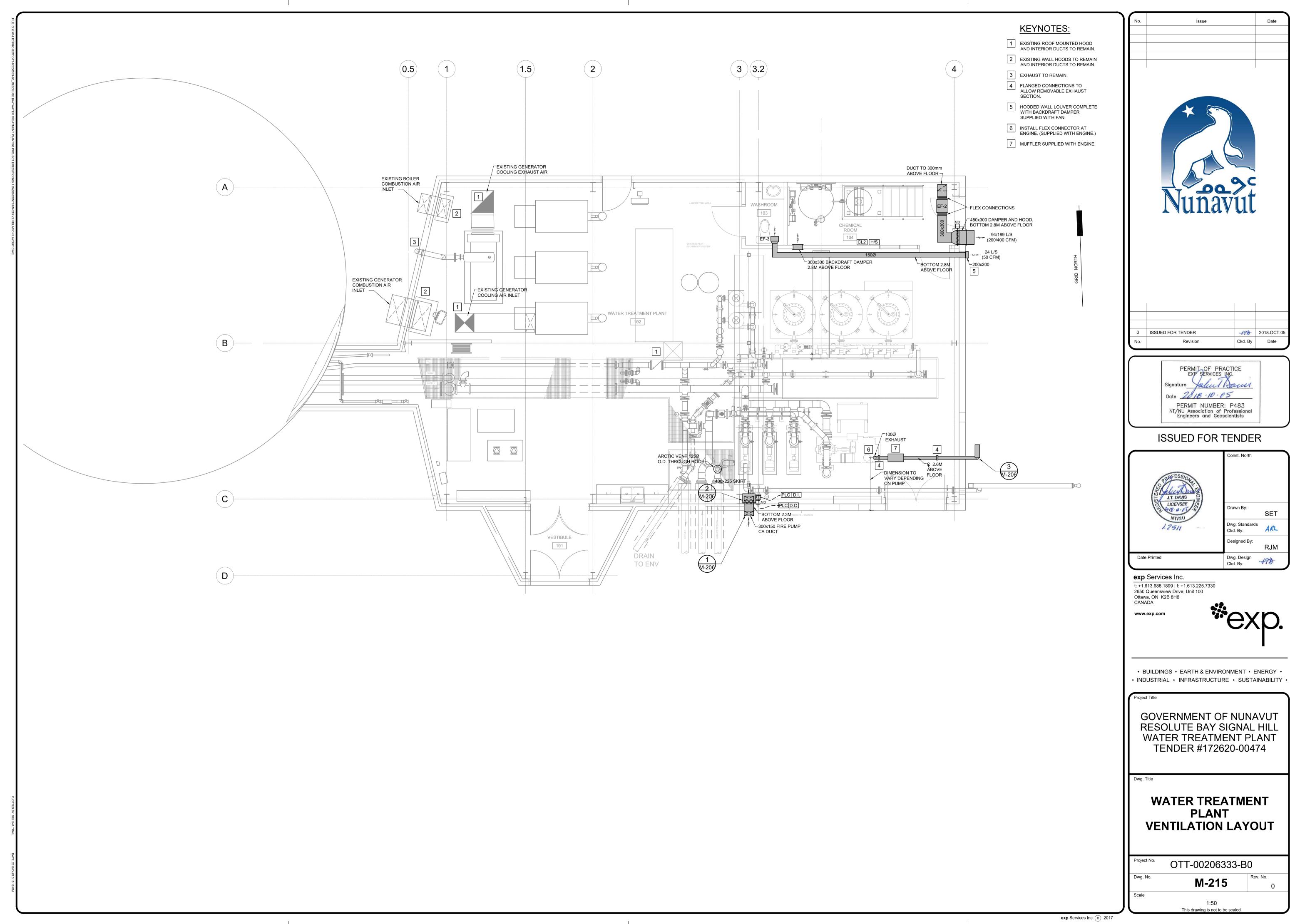
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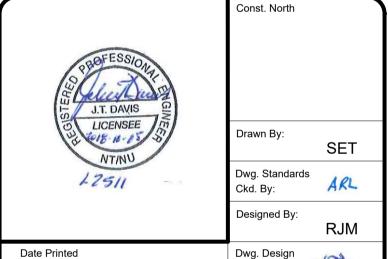


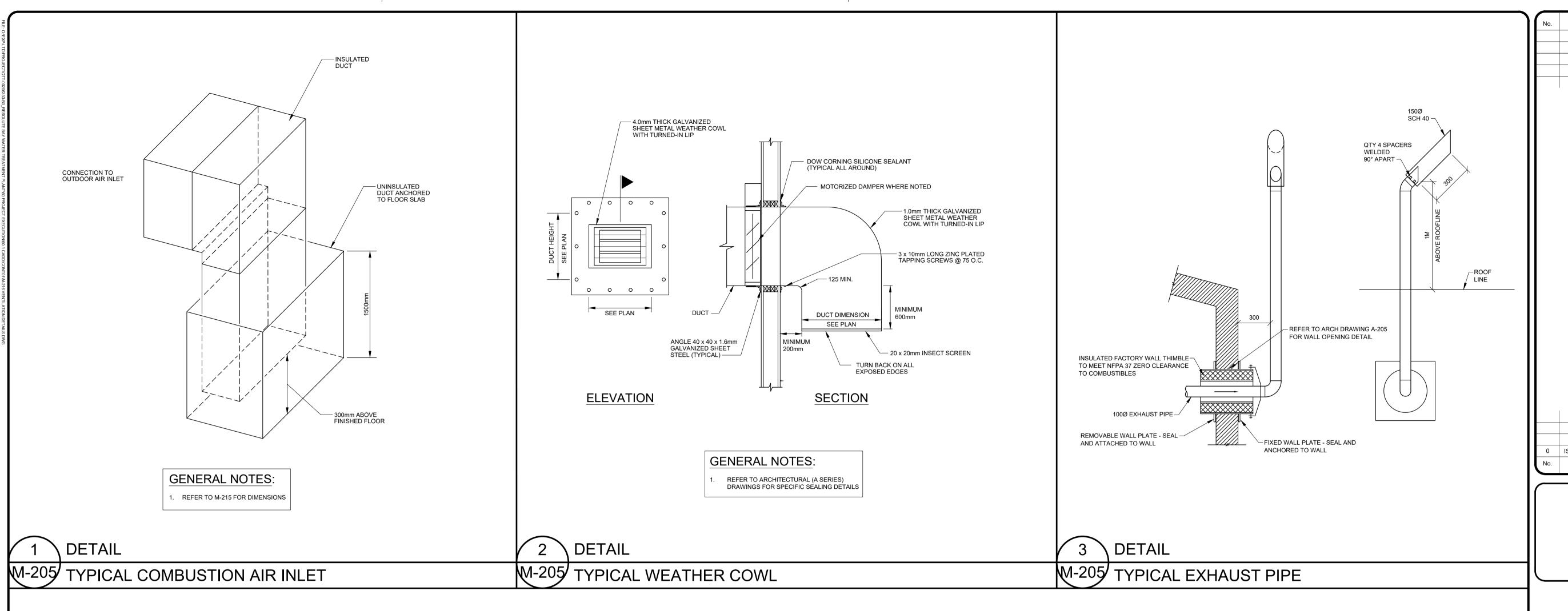


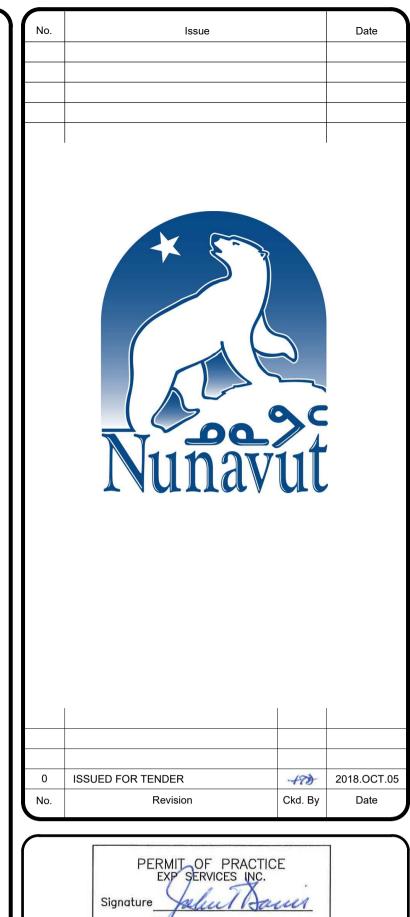












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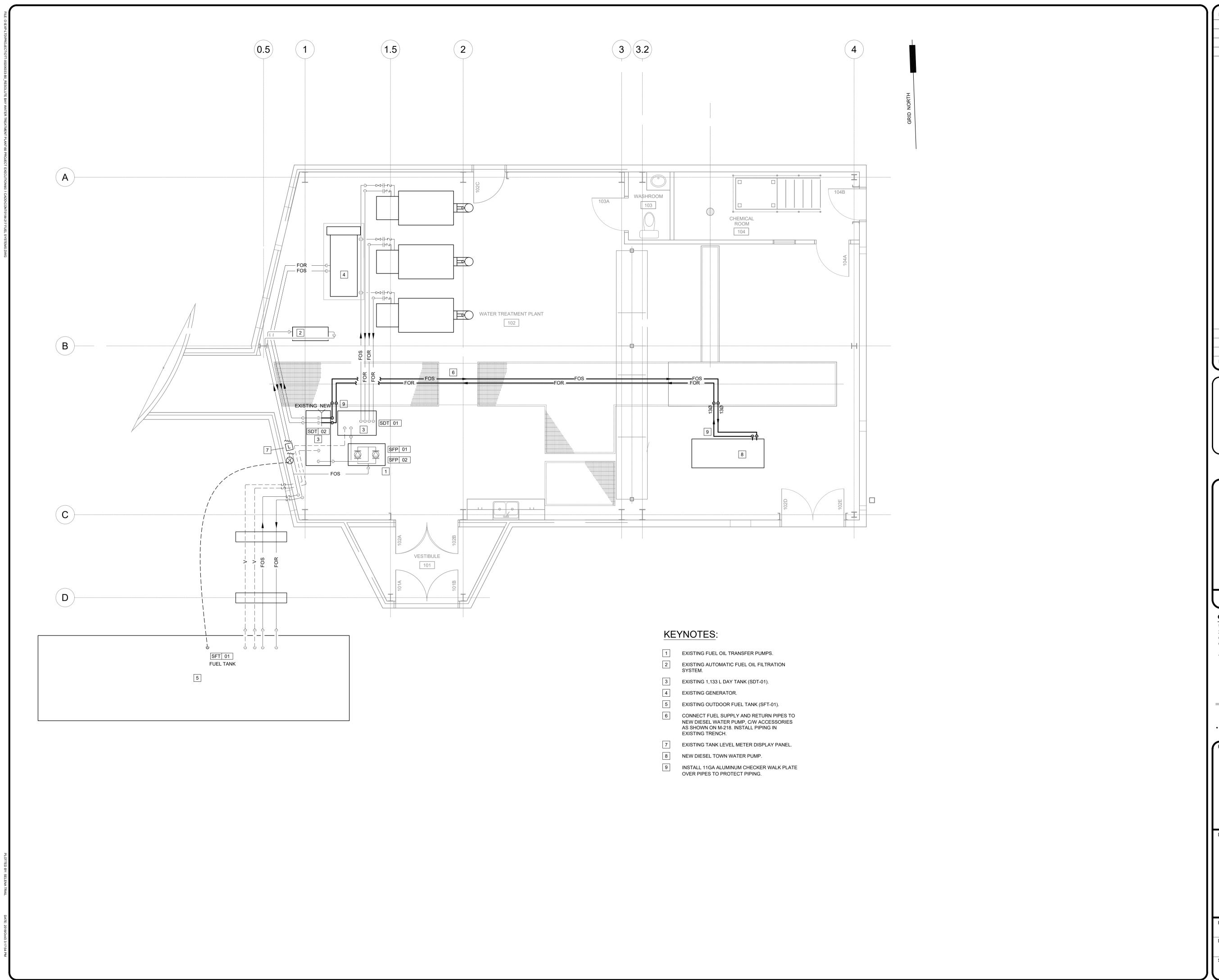


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GOVERNMENT OF NUNAVUT RESOLUTE BAY SIGNAL HILL WATER TREATMENT PLANT TENDER #172620-00474

WATER TREATMENT **PLANT VENTILATION DETAILS**

OTT-00206333-B0 M-216 NOT TO SCALE

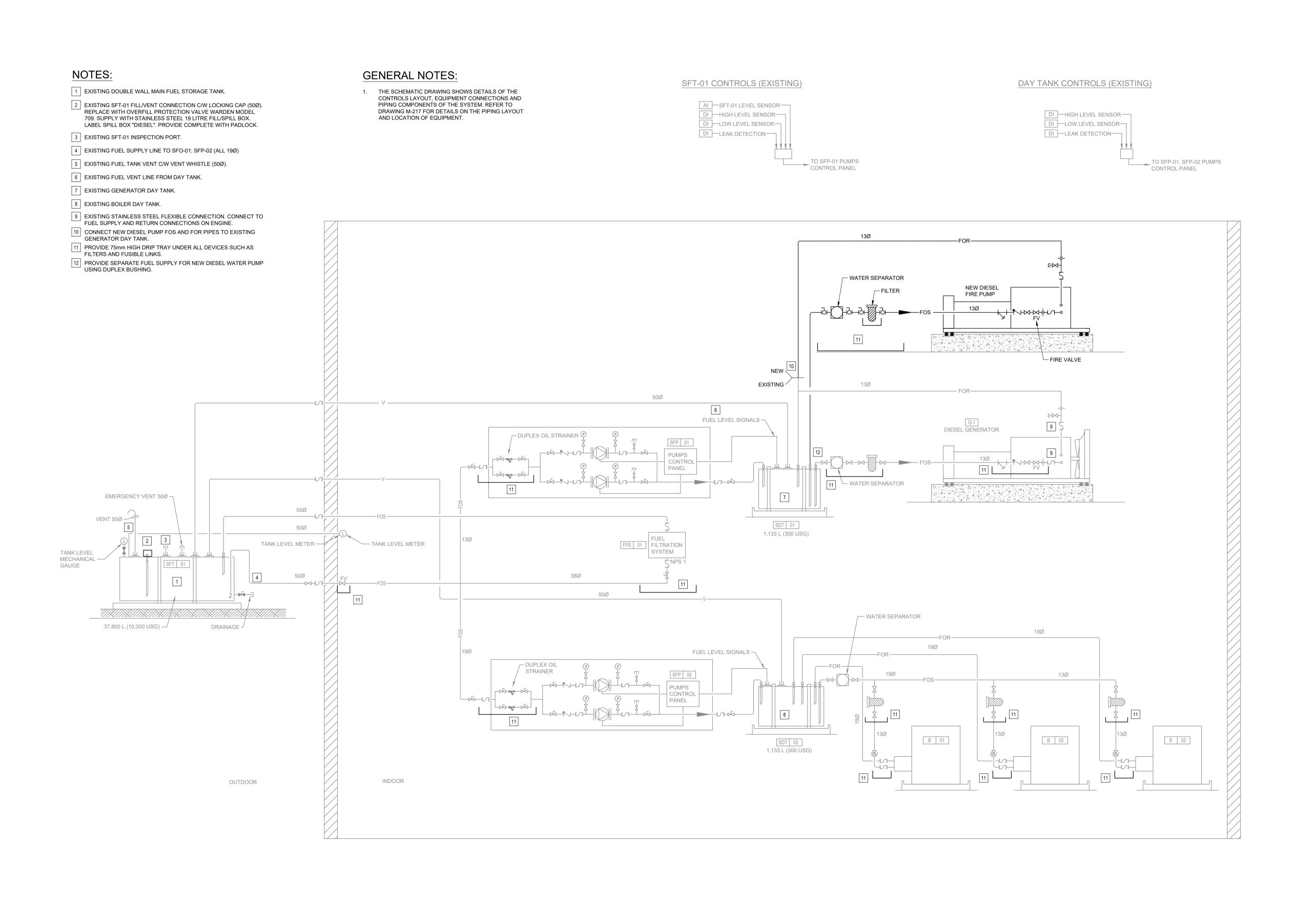


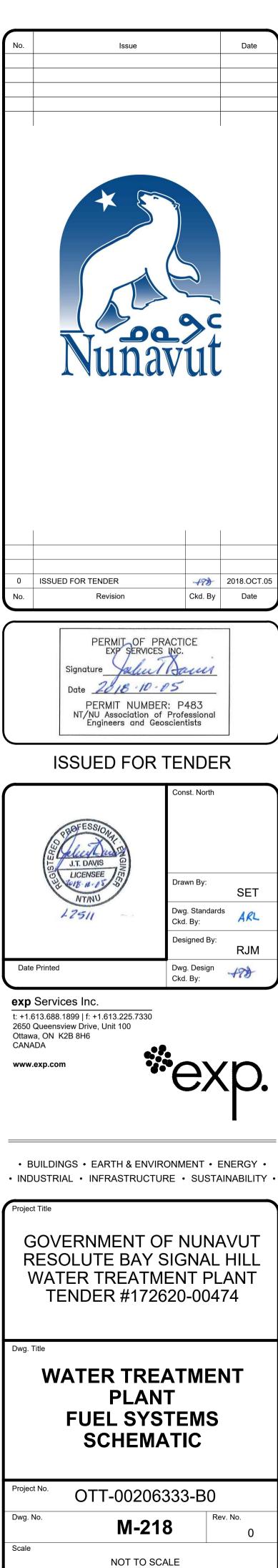
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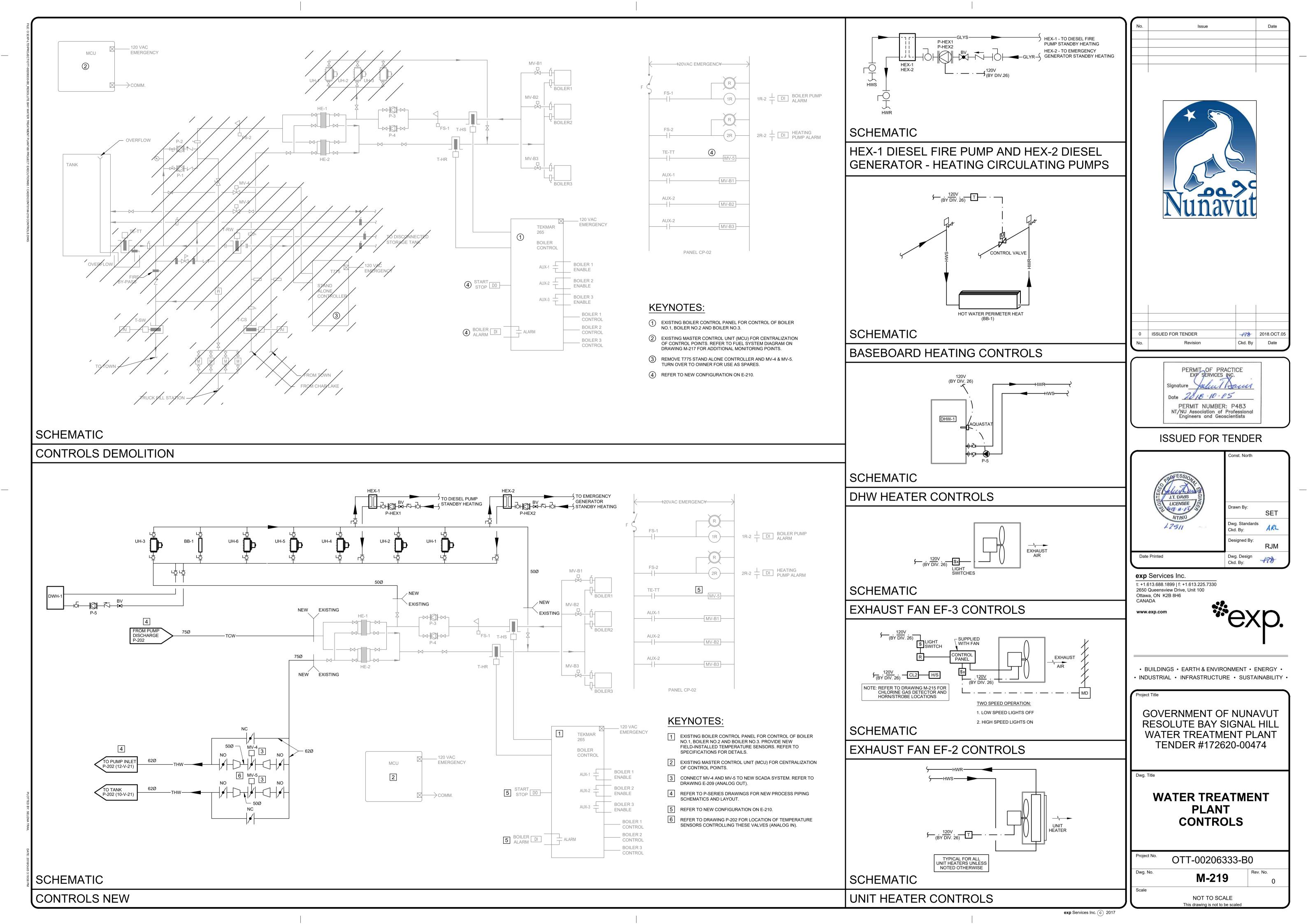
THE WAY TO SEE Drawn By: Dwg. Standards Ckd. By: Designed By: RJMDwg. Design Ckd. By: exp Services Inc. t: +1.613.688.1899 | f: +1.613.225.7330 2650 Queensview Drive, Unit 100 Ottawa, ON K2B 8H6 • BUILDINGS • EARTH & ENVIRONMENT • ENERGY • • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY • Project Title **GOVERNMENT OF NUNAVUT** RESOLUTE BAY SIGNAL HILL WATER TREATMENT PLANT TENDER #172620-00474 **WATER TREATMENT PLANT FUEL SYSTEMS** OTT-00206333-B0 M-217 1:50

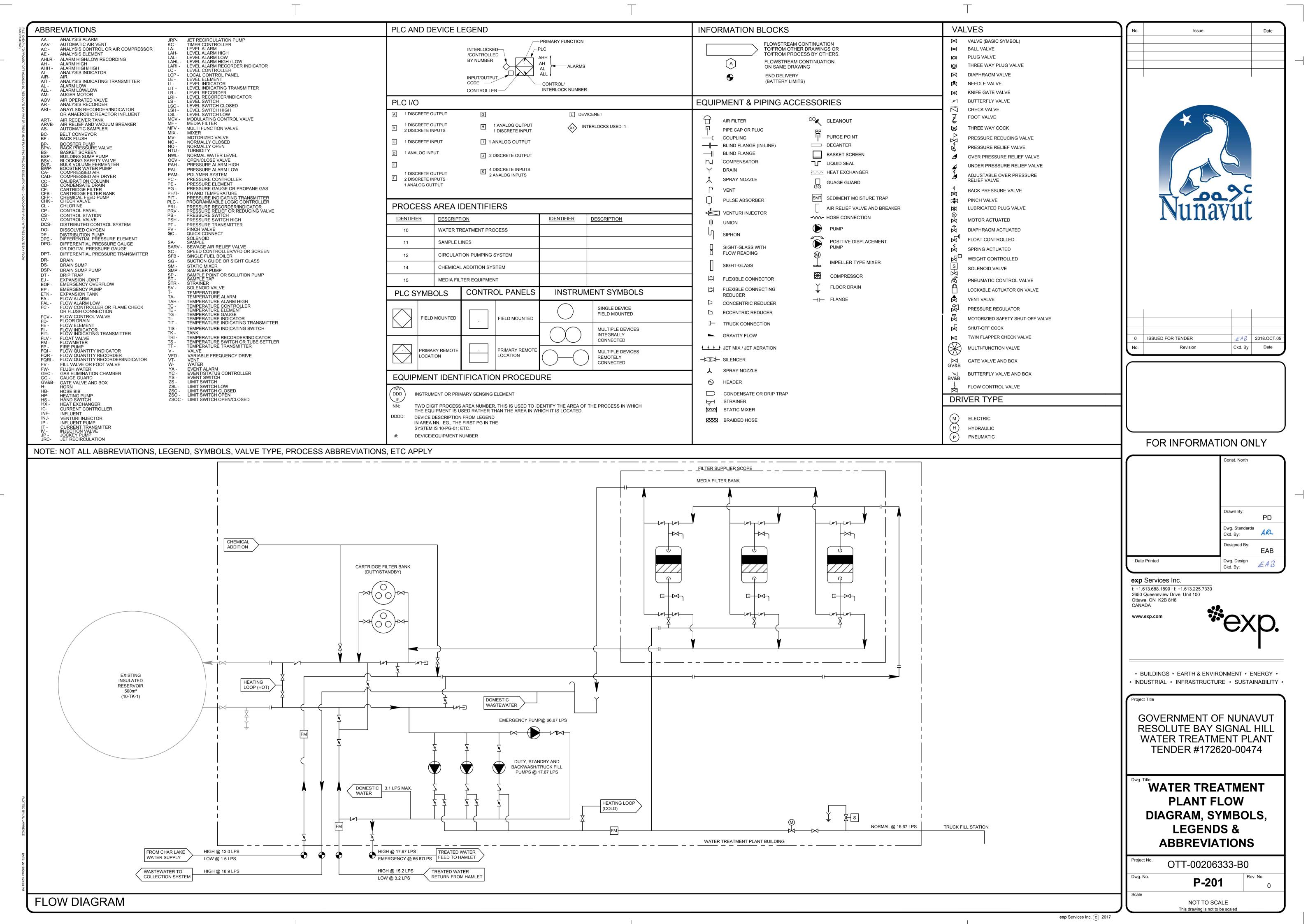
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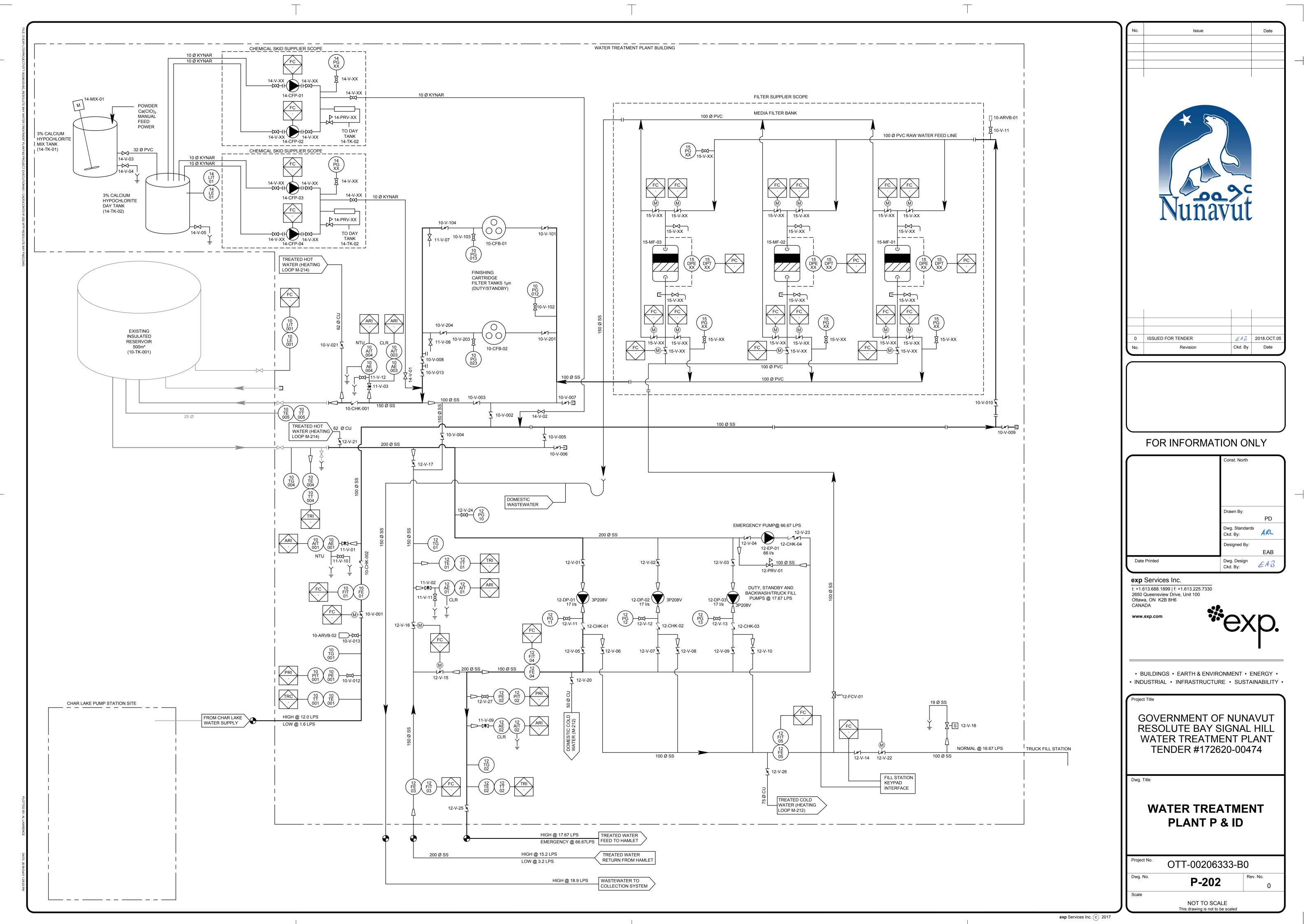


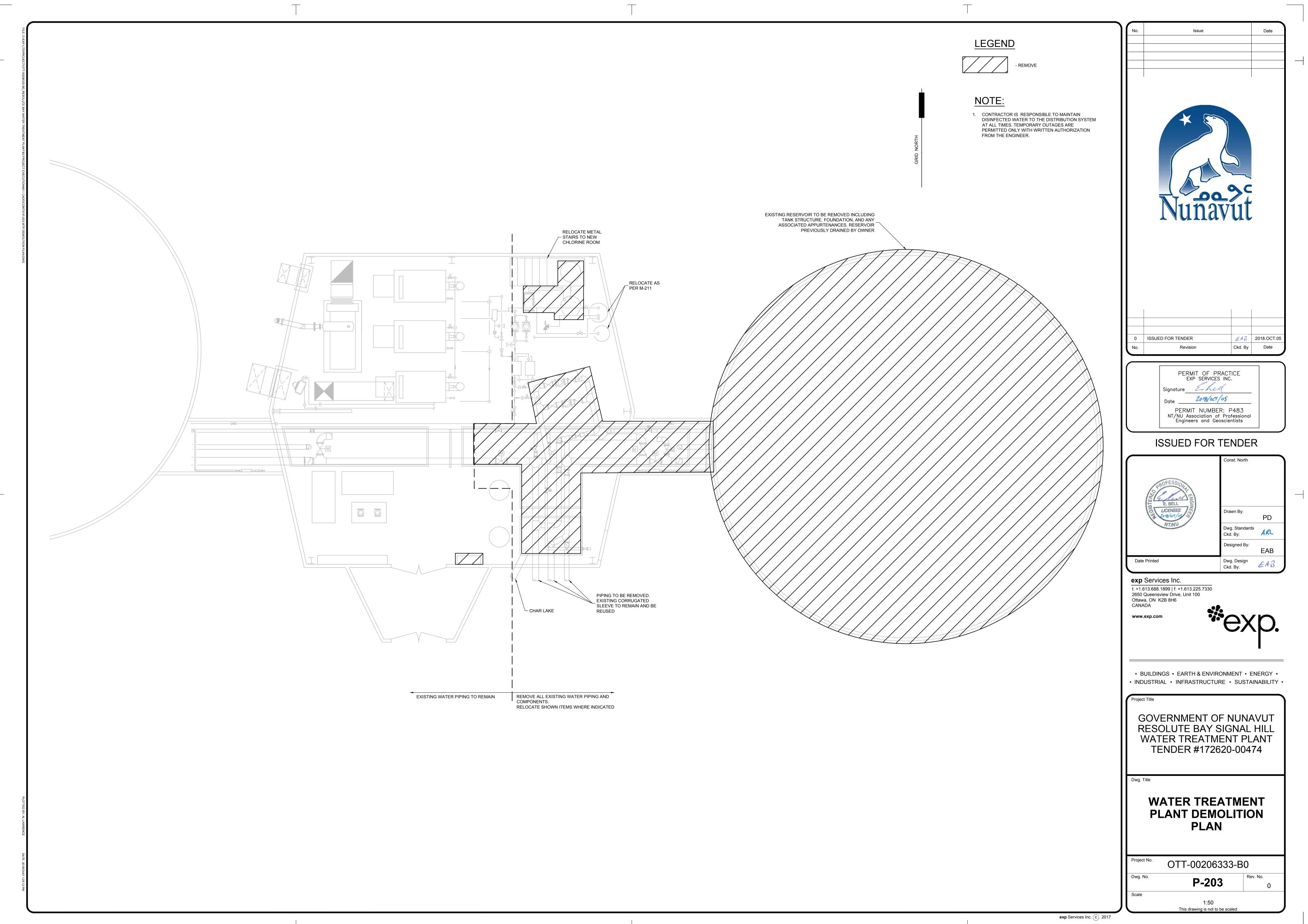


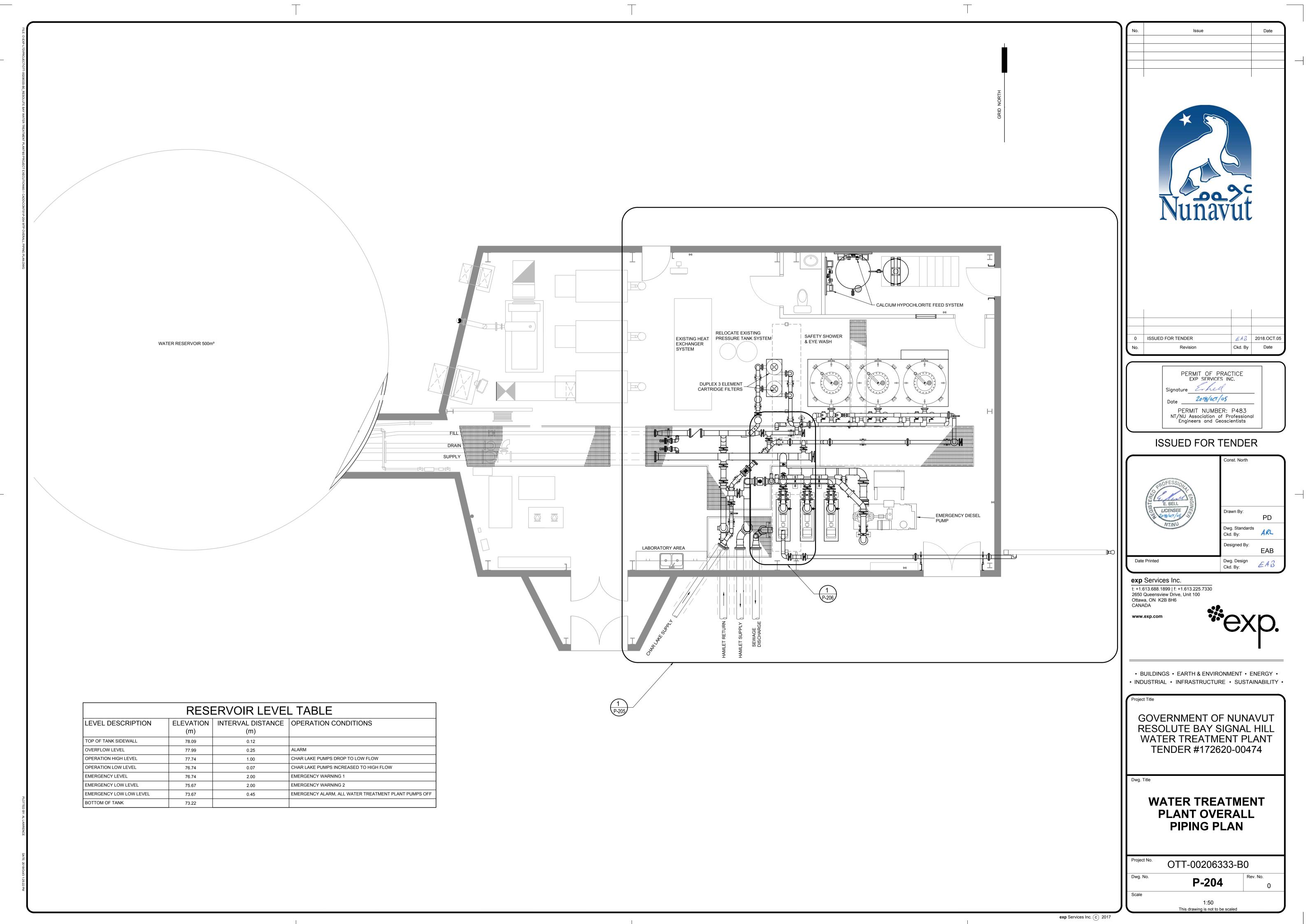
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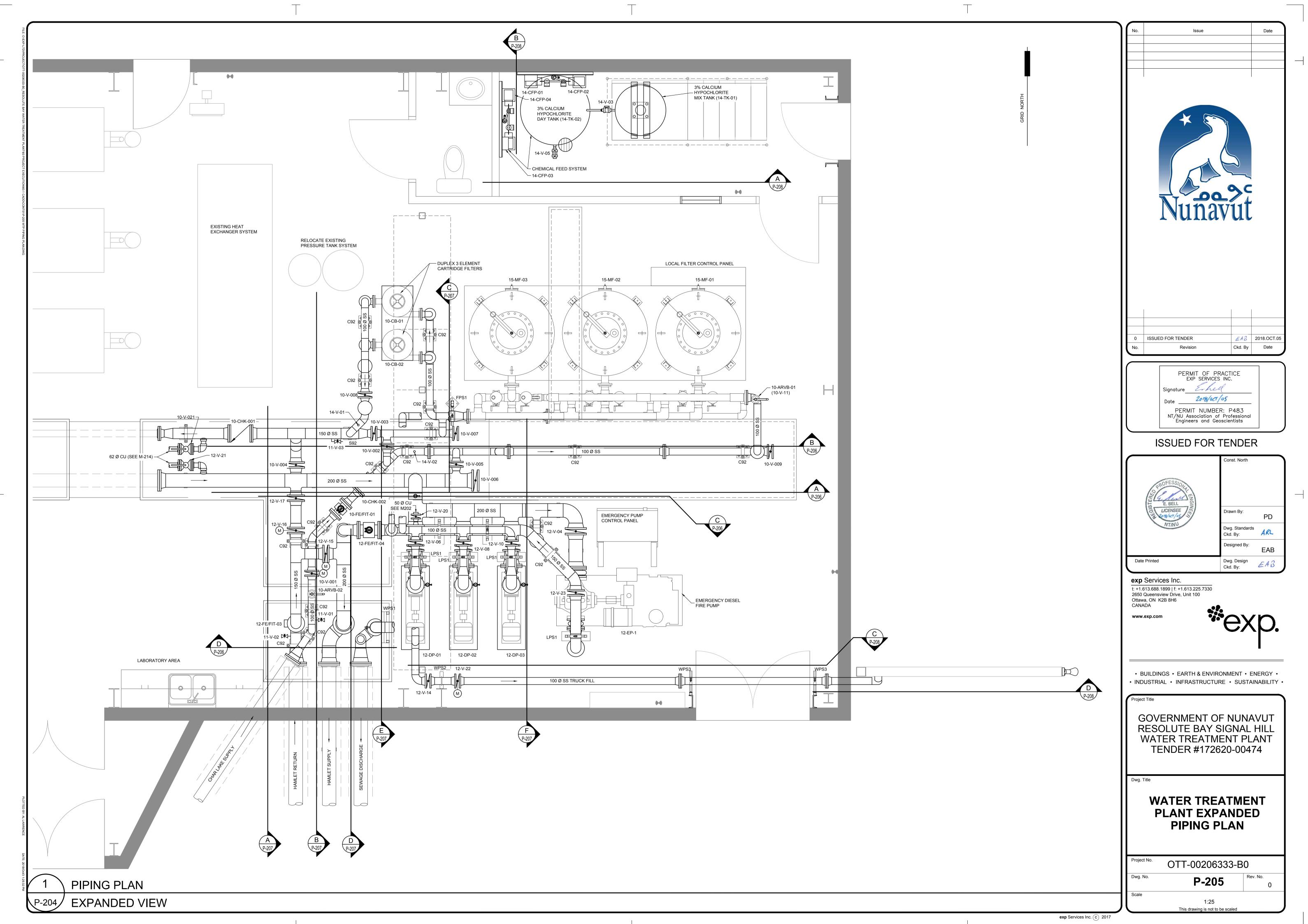


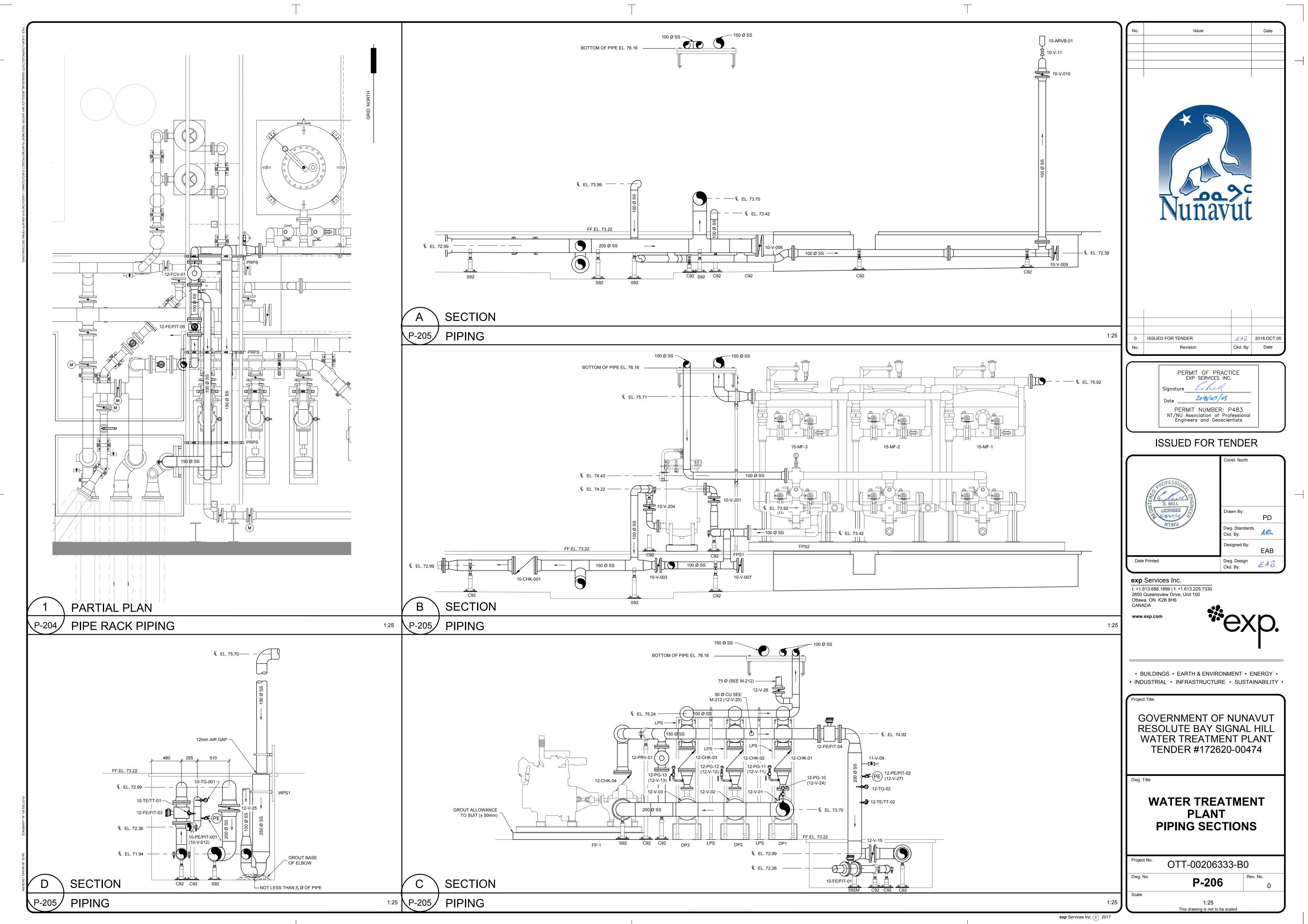


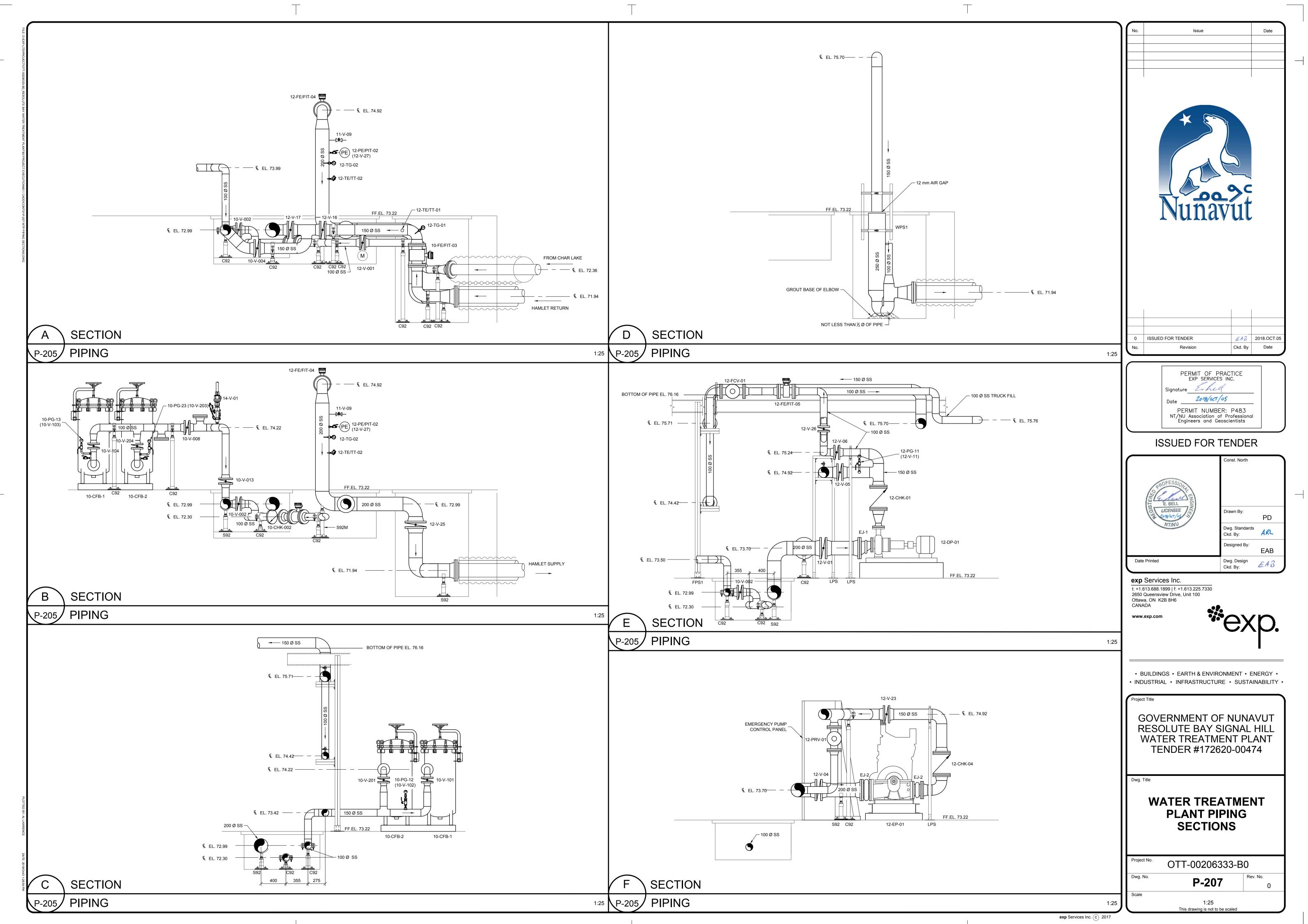


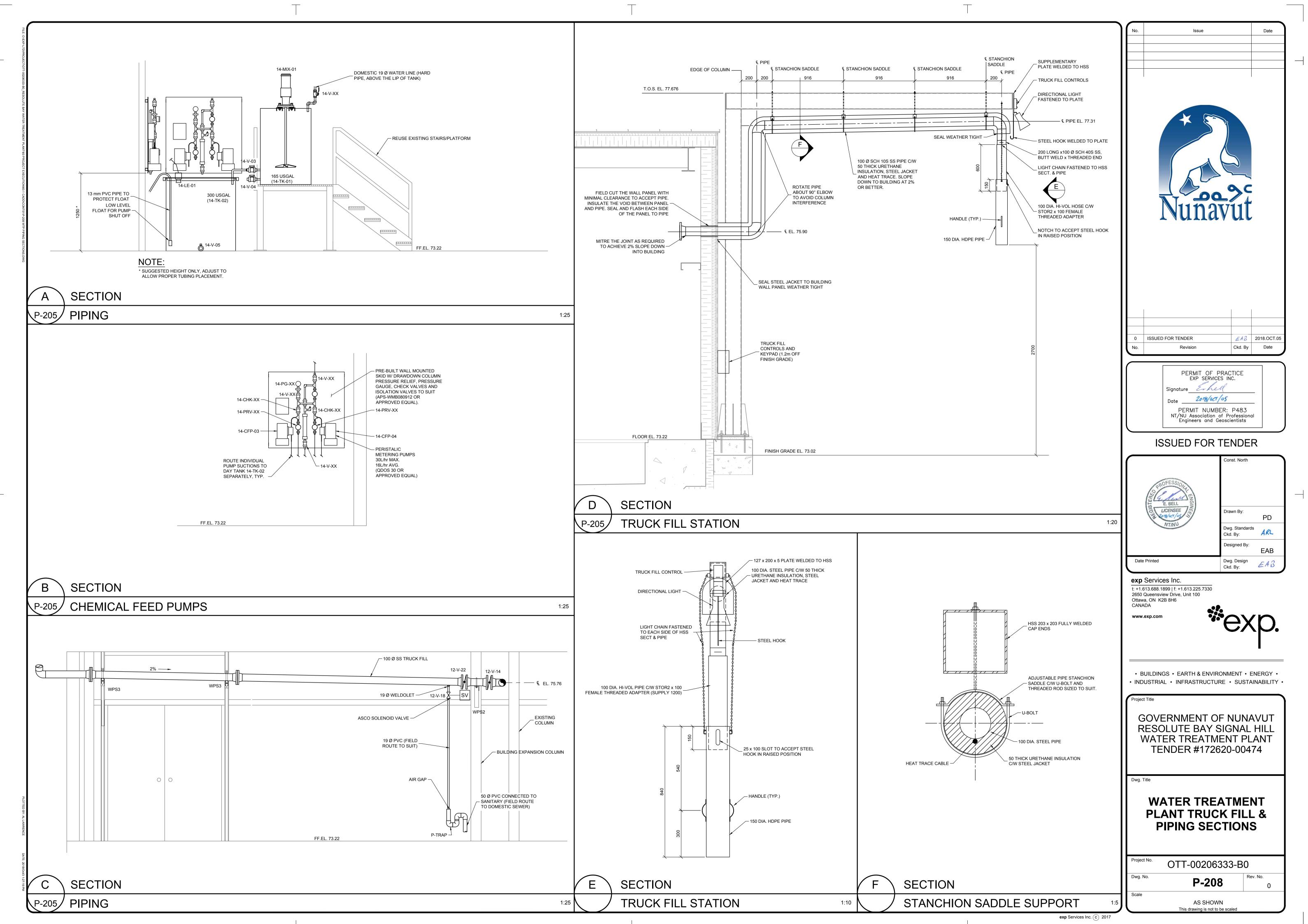


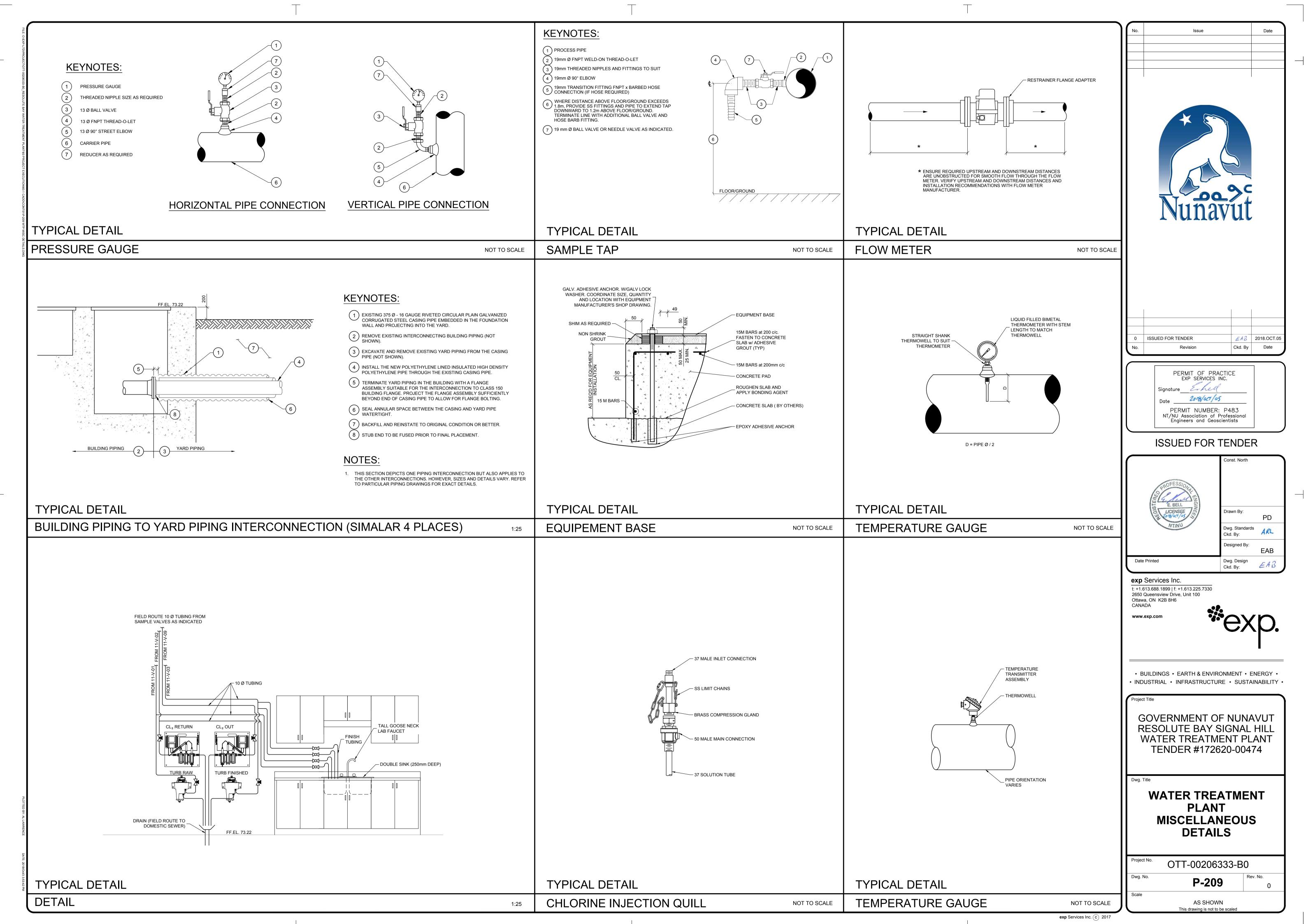


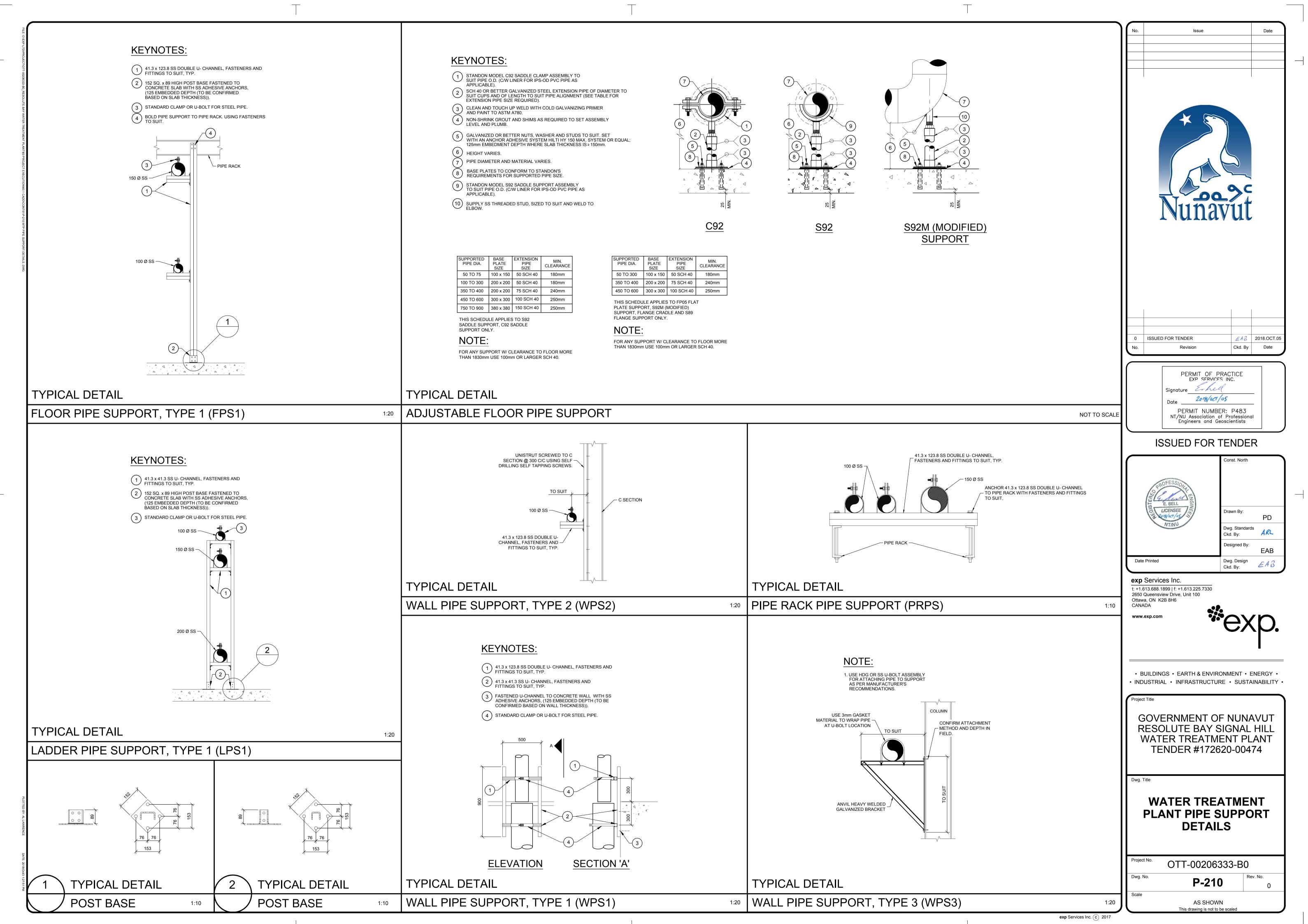


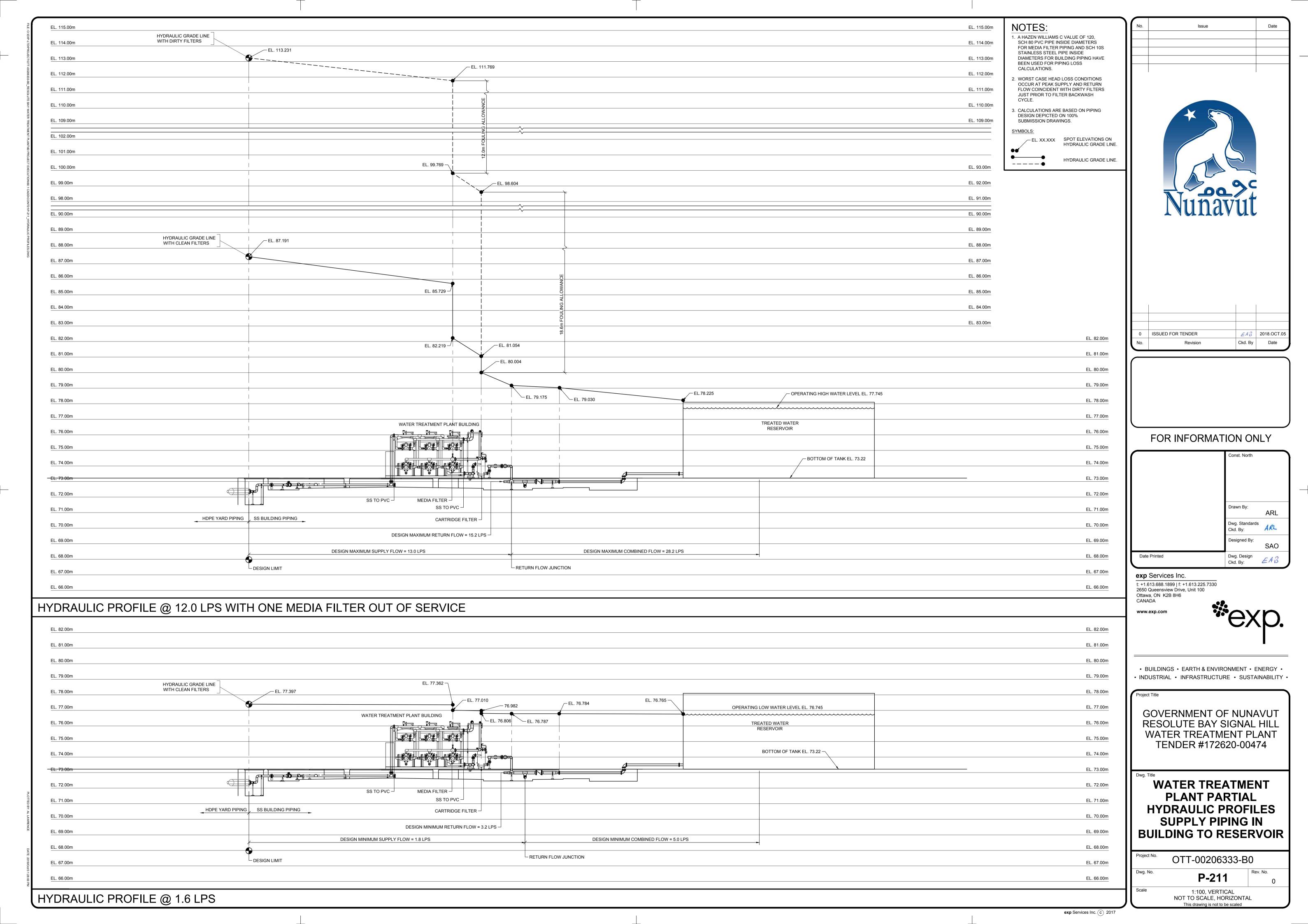


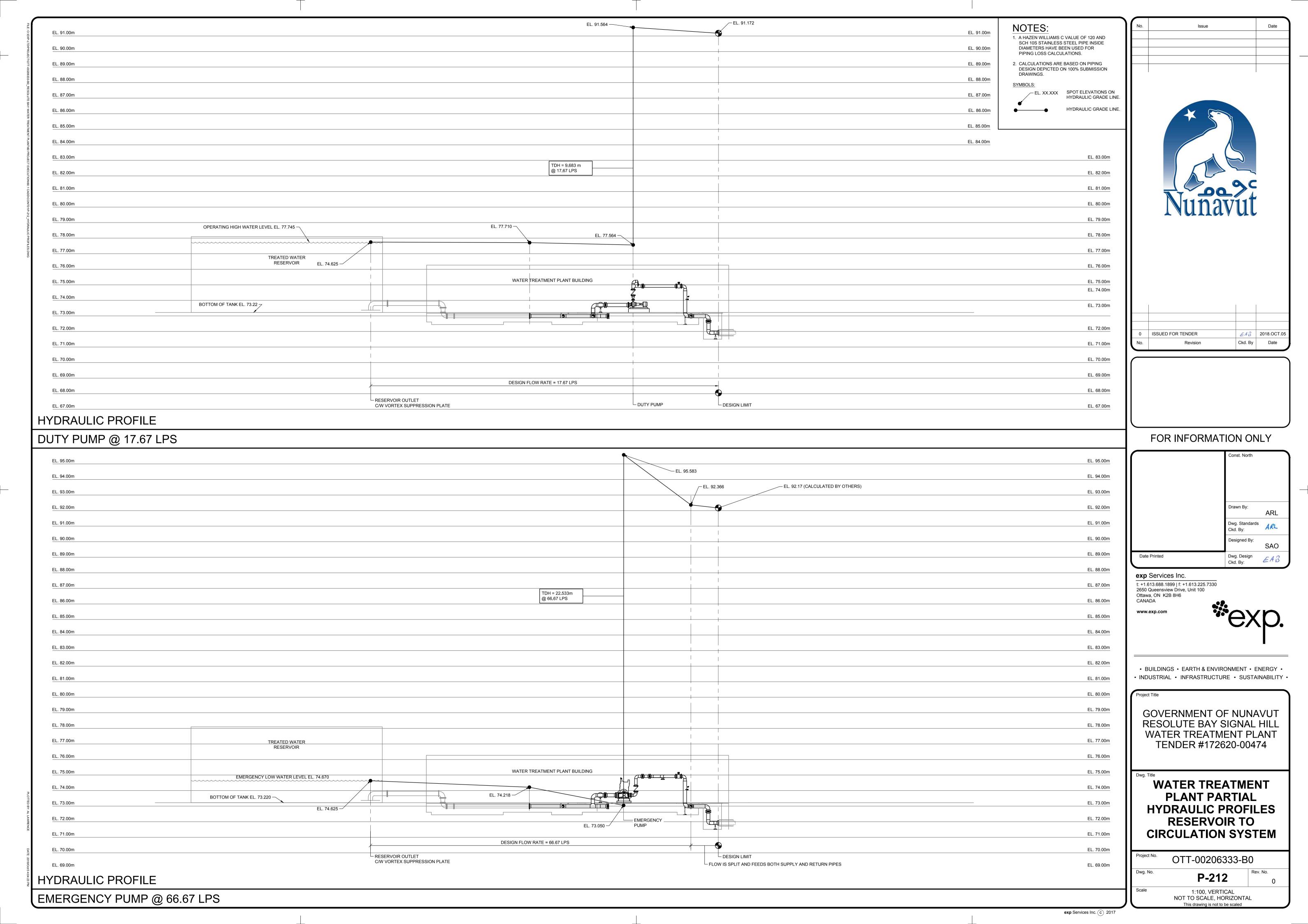


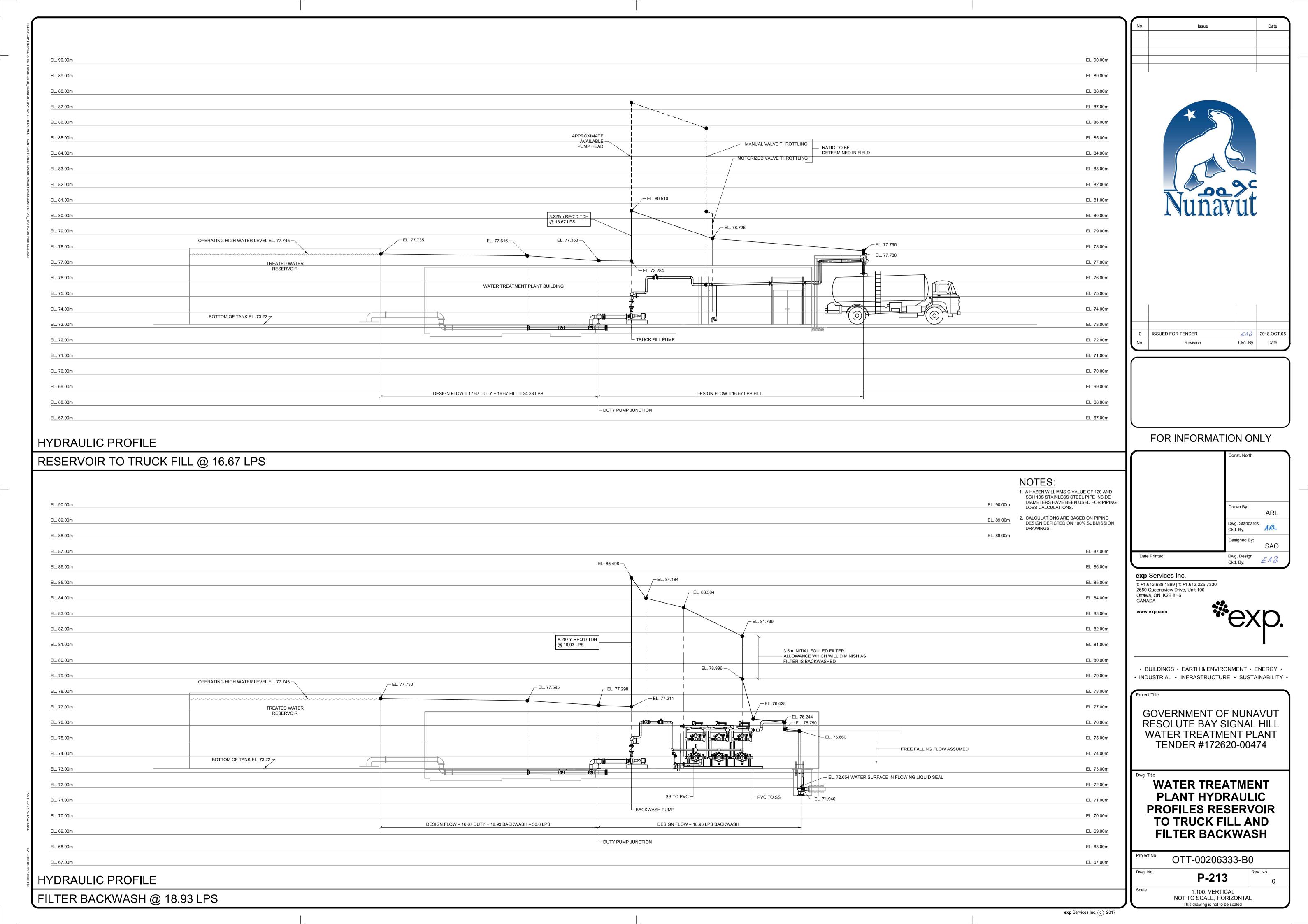


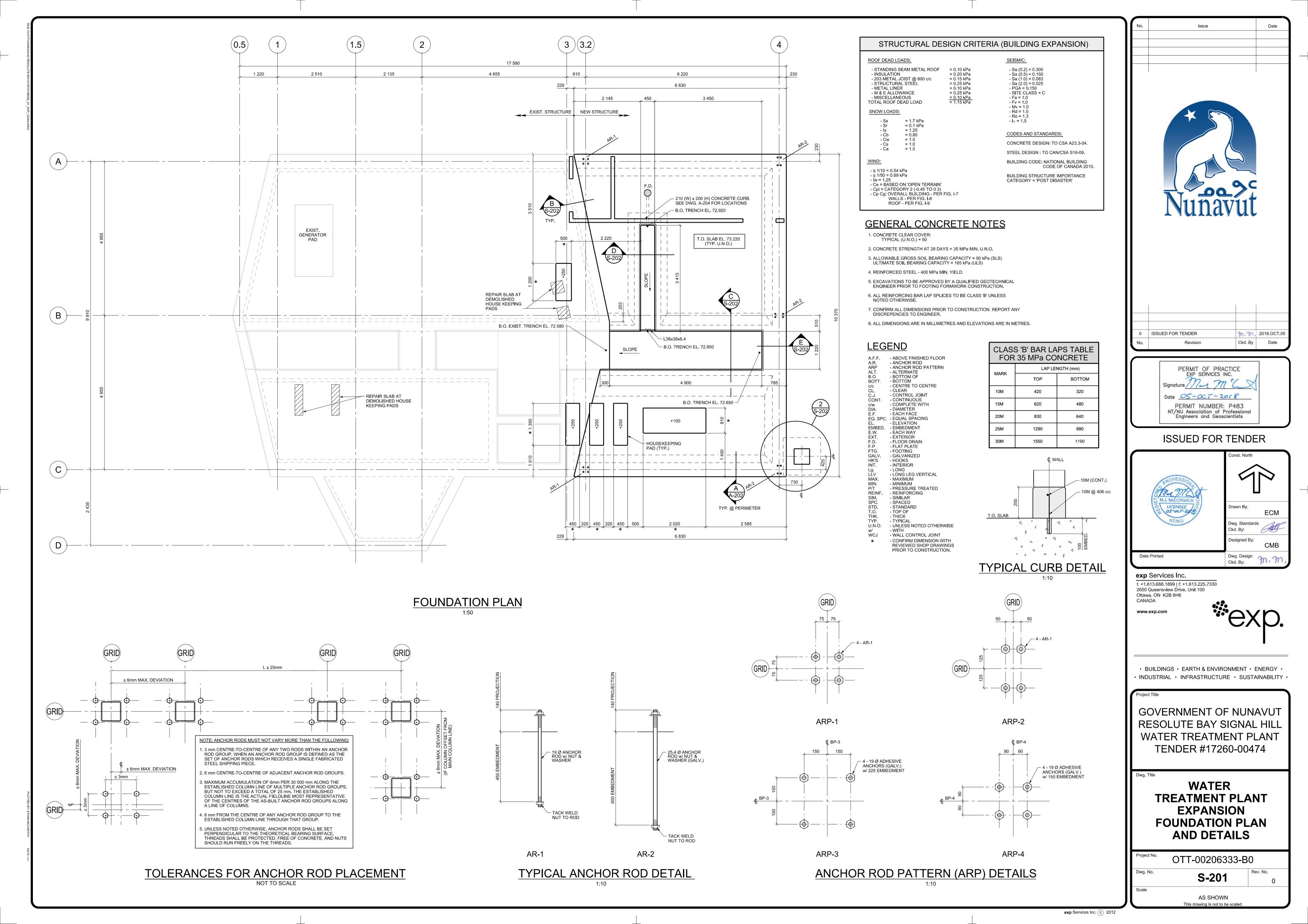


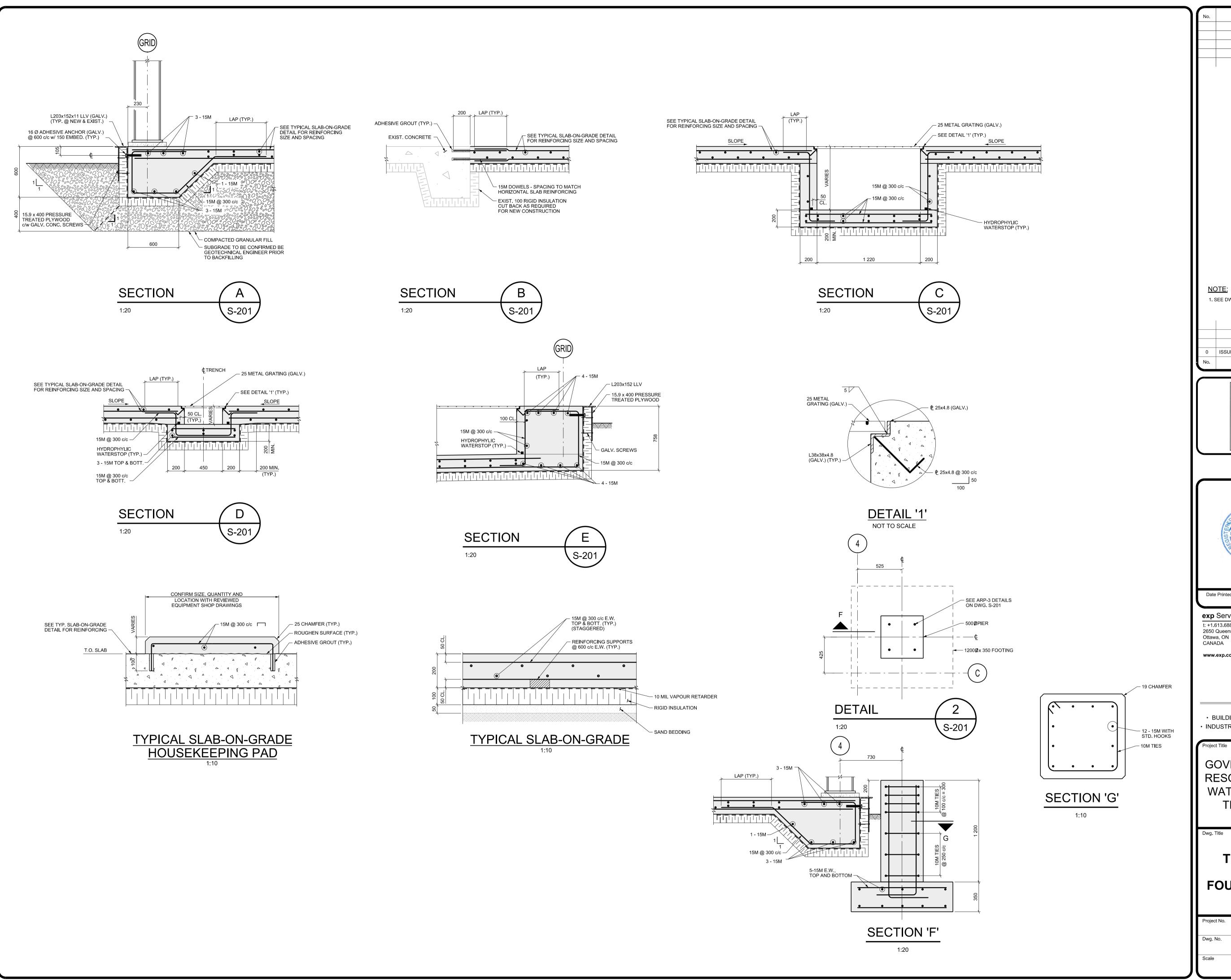












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