## TOWN OF PEACE RIVER, PEACE REGIONAL POOL HOT TUB REPLACEMENT

## RENOVATION



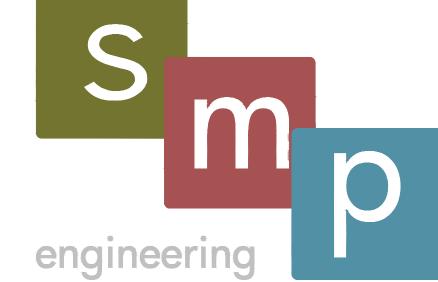
526e-001-23 ISSUED FOR TENDER

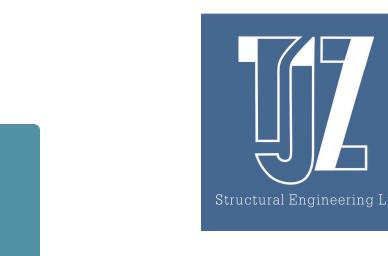
> 7201 - 98 STREET PEACE RIVER, AB





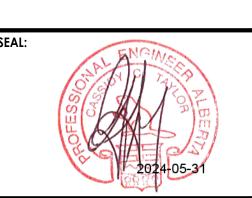






REV.	DATE	DESCRIPTION
1.	2023-11-15	ISSUED FOR 50% COORDINATION
2.	2023-12-01	ISSUED FOR 90% COORDINATION
3.	2023-12-22	ISSUED FOR PERMIT
4.	2024-04-01	RE-ISSUED FOR PERMIT
5.	2024-05-31	ISSUED FOR TENDER

227<sup>4</sup>12 05/31/2024 RM APEGA ID #: \_\_\_\_ PERMIT NUMBER: P009296



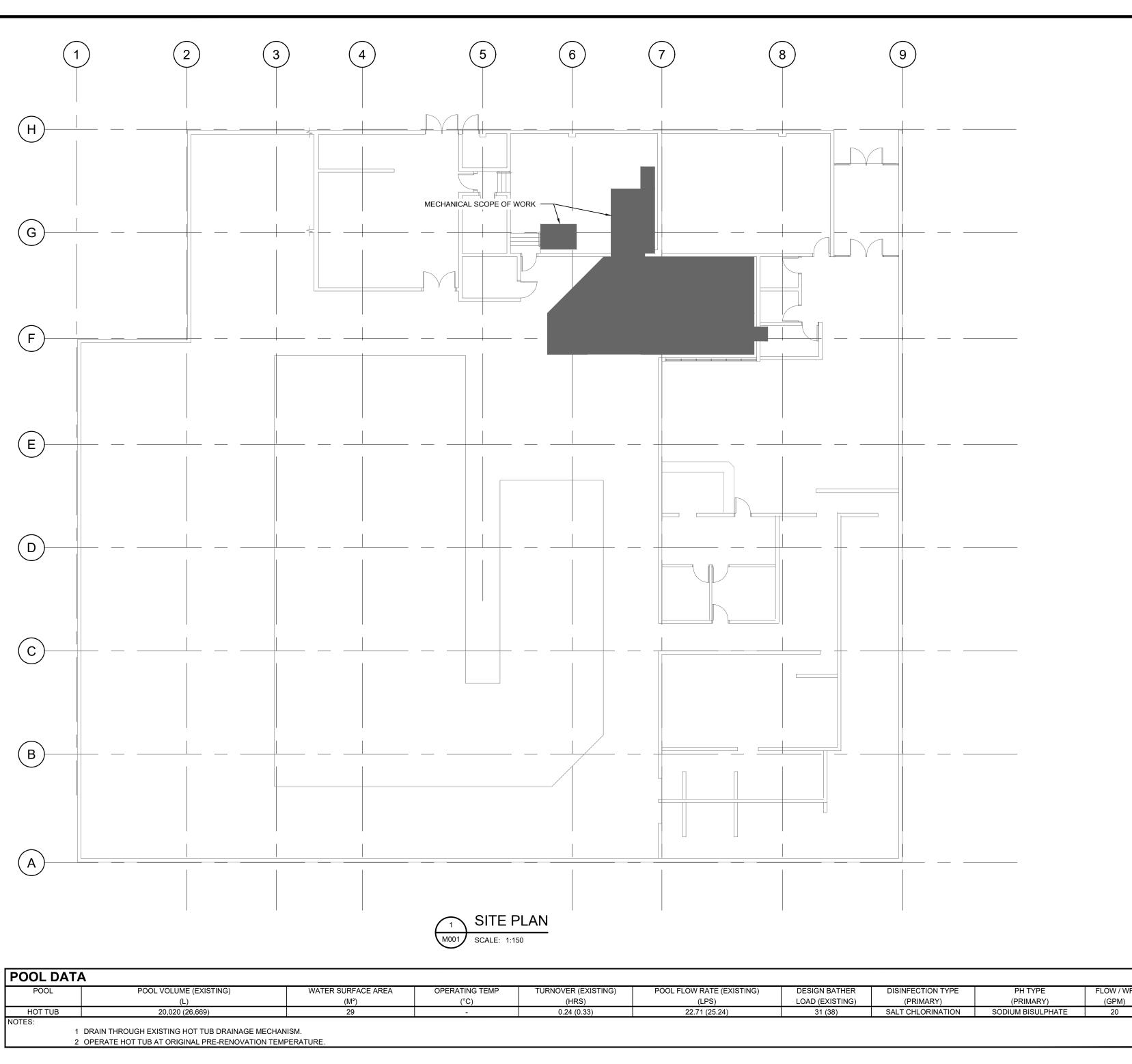
TOWN OF PEACE RIVER - HOT TUB

REPLACEMENT 9911 - 100 STREET P.O. BOX 6600 PEACE RIVER, ALBERTA T8S 1S4

DRAWN BY	J. M. BARNARD
CHECKED BY	C. TAYLOR
SCALE	NTS
DATE	MAY 31, 2024

COVER PAGE

PROJECT NO.	DRAWING NO.
526e-001-23	M000



POOL FITTING SCHEDULE

TAG WI-001 FI-001

HA-001

MD-001

DESCRIPTION

HOT TUB WALL INLET

HOT TUB HYDRO-AIR JETS

AS SHOWN IN MECHANICAL DETAILS.

1. CONNECT TO EXISTING HOT TUB CONTROL PANEL

2. COMPLETE WITH CUSTOM NON-METALLIC GRATE AND FRAME

LOCATION

MANUFACTURER

JACUZZI

PENTAIR

HOT TUB LAWSON AQUATICS

IFC 65 SP-1425

BERMUDA FI-SF-183624 SUMP, MLD-FG-1836 GRATE

M = MECHANICAL

E = ELECTRICAL

G = DIV. 13 SPECIALITES



MECHANICAL ABBREVIATIONS

ECHANICAL	DRAWING LIST	
DRAWINGS NO.	DESCRIPTION	SCALE
M000	COVER SHEET	NTS
M001	SITE PLAN, SYMBOL LIST, AND DRAWING LIST	AS SHOWN
M201	POOL PIPING DEMOLITION PLAN	1:50
M202	POOL PIPING RENOVATION PLAN	1:50
M203	HOT TUB PIPING LAYOUT	1:30
M701	HOT TUB DEMOLITION SCHEMATIC	NTS
M702	HOT TUB RENOVATION SCHEMATIC	NTS
M801	MECHANICAL DETAILS I	NTS
M802	MECHANICAL DETAILS II	NTS

PIPING		SYSTEM MONIT	ORING
NEW		NEW	
	DOMESTIC COLD WATER (DCW)	T	ROOM TEMPERATURE SENSOR
	DOMESTIC COLD WATER (DCW)  DOMESTIC HOT WATER (DHW)	RT	REVERSE ACTING TEMPERATURE SENS
	DOMESTIC HOT WATER (DIW)	(I) (S)	SLAB TEMPERATURE SENSOR
	, ,		
	DOMESTIC TEMPERED WATER (DTW)	(H)	HUMIDITY SENSOR
	SANITARY VENT	\$	SWITCH
——SAN——	SANITARY SEWER ABOVE GRADE	(T)	THERMOSTAT WITH COVER
— — SAN— —	SANITARY SEWER BELOW GRADE	⊕	HEAT DETECTOR
—st—	STORM SEWER ABOVE GRADE	<b>©</b>	SMOKE DETECTOR
<b>—</b> ST <b>—</b> —	STORM SEWER BELOW GRADE	<u>@</u>	CO2 SENSOR
<del></del> 1	PIPE CLEAN-OUT	AFM	AIR FLOW METER
$\longrightarrow$	PIPE CLEAN-OUT TO GRADE	(DPS)	DEW POINT SENSOR
-x x-	DRAIN TILE	dP	DIFFERENTIAL PRESSURE SENSOR
——F——	FIRE LINE	FS	FLOW OWITOU
——SP——	WET SPRINKLER LINE	<del></del>	FLOW SWITCH
—— IRR ——	IRRIGATION LINE		PIPE TEMPERATURE SENSOR
——HWS——	HYDRONIC HEATING WATER SUPPLY		
— —HWR— —	HYDRONIC HEATING WATER RETURN	P	PRESSURE SENSOR
—CHWS—	CHILLED WATER SUPPLY		
CHWR	CHILLED WATER RETURN	OUT STO AND	I DRAING
		OUTLETS AND	DRAINS
C	CONDENSATE DRAIN	<b>V</b> 6	OPEN DRAIN
—— HRS ——	HEAT RECOVERY SUPPLY	<b> </b> — →	HOSE-BIBB (HB)
— —HRR— —	HEAT RECOVERY RETURN		FLOOR DRAIN (FD)
—CONDS—	CONDENSER WATER SUPPLY		FUNNEL FLOOR DRAIN
—CONDR—	CONDENSER WATER RETURN		AREA DRAIN
<del></del>	POOL WATER SUPPLY	I —	POOL MAIN DRAIN
— —PWR— —	POOL WATER RETURN		
— PWR-MD —	POOL WATER RETURN FROM MAIN DRAIN	9	POOL SKIMMER DRAIN
BW	FILTER BACKWASH	畔	POOL HYDRO-AIR INLET FITTING
——PC——	FILTER PRECOAT	<b>બ્-વી</b>	POOL WALL INLET FITTING
PAS	POOL AIR SUPPLY LINE	DUCTWORK	
			I
——CL2——	CHLORINE LINE	₩ 🔁 😚	SUPPLY OR OUTDOOR AIR DUCT UP
—— CHEM ——	POOL WATER BYPASS TO CHEMICALS	D≊3 <b>€</b> >	SUPPLY OR OUTDOOR AIR DUCT DOWN
——PH——	PH FEED	❷ ♦	RETURN AIR DUCT UP
—— WFS ——	WATER FEATURE SUPPLY	£≥3 <b>€</b> >	RETURN AIR DUCT DOWN
WFR	WATER FEATURE RETURN	<b>∞</b> •	EXHAUST AIR DUCT UP
—— на ——	HYDRO-AIR WATER SUPPLY	[21 0	EXHAUST AIR DUCT DOWN
HAR	HYDRO-AIR WATER RETURN		TURNING VANES
EITTINGO AND	(41) (50)		ACOUSTIC INSULATION
FITTINGS AND	VALVES	- <del>-</del> -	BALANCING DAMPER (BD)
	DIRECTION OF FLOW		BALLANOING BAWA ET (BB)
<del></del>	PIPE DROP	BDD	BACKDRAFT DAMPER (BDD)
<del></del> 0	PIPE RISE	#	MOTORIZED DAMPER (MD)
	PIPE TEE UP	<u></u> FD	FIRE DAMPER - VERTICAL (FD)
		<u> </u>	` '
	PIPE TEE DOWN	<b>₽</b> FD	FIRE DAMPER - HORIZONTAL (FD)
NO NO	PIPE UNION	<b>│</b> □ □ □	DUCT OR PIPE CAP-OFF
	ISOLATION VALVE (NORMALLY OPEN)		RETURN OR EXHAUST AIR GRILLE
→ NC	ISOLATION VALVE (NORMALLY CLOSED)	UC —	UNDER-CUT DOOR
<u> </u>	CHECK VALVE	FIDE DOOTEST	LON
<del></del> \$	2-WAY CONTROL VALVE	FIRE PROTECT	IUN
_	1	1	FIDE EXTINOLIIOUED
<del></del> \$	3-WAY CONTROL VALVE	⊗ <sup>FE</sup>	FIRE EXTINGUISHER
	3-WAY CONTROL VALVE BALANCING VALVE	_	
—————————————————————————————————————		⊗ <sup>FE</sup>	FIRE DEPARTMENT SIAMESE CONNECT
	BALANCING VALVE	<b>→</b>	FIRE DEPARTMENT SIAMESE CONNECT PENDANT SPRINKLER HEAD
<b>→</b>	BALANCING VALVE PRESSURE REDUCING VALVE (PRV) POOL FLOW CONTROL VALVE	<del></del>	FIRE DEPARTMENT SIAMESE CONNECTI PENDANT SPRINKLER HEAD UPRIGHT SPRINKLER HEAD
<b>→</b>	BALANCING VALVE PRESSURE REDUCING VALVE (PRV) POOL FLOW CONTROL VALVE STRAINER	→ → →	FIRE DEPARTMENT SIAMESE CONNECTS PENDANT SPRINKLER HEAD UPRIGHT SPRINKLER HEAD CONCEALED SPRINKLER HEAD
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Victoria BC, V8W 1M8

AME CONSULTING GROUP LTD RM SIGNATURE: RM APEGA ID #: 227412 DATE: 05/31/2024 PERMIT NUMBER: P009296 The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

CONSULTANT:

EQUIPMENT / FIXTURE TYPE

GENERAL NOTE DRAWING REVISION

DETAIL NUMBER DRAWING NUMBER

SECTION NUMBER

DRAWING NUMBER

PROJECT TITLE:

TOWN OF PEACE RIVER - HOT TUB REPLACEMENT

PROJECT ADDRESS: 9911 - 100 STREET P.O. BOX 6600 PEACE RIVER, ALBERTA T8S 1S4

DRAWN BY	J. M. BARNARD
CHECKED BY	C. TAYLOR
SCALE	AS SHOWN
DATE	MAY 31, 2024
DDAWNIO TITLE	•

SITE PLAN, SYMBOL LIST AND DRAWING LIST

DRAWING NO. 526e-001-23 M001

PUMP SCHEDULE												
EQUIPMENT	QTY	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	FLOW (EXISTING)	HEAD (EXISTING)	IMPELLER SIZE	MOTOR	MOTOR	POWER	NOTES
TAG						(L/S)	(M)	(MM)	(HP)	(RPM)	(V/PH/HZ)	
EX-PF-03	1	EXISTING HYDRO-AIR JET BOOSTER PUMP	121 POOL FILTRATION	VM PUMP	10VMB-T5	23.97 (23.97)	19.2 (19.2)	-	10.0	3520.0	575/3/60	1, 3
EX-PF-11	1	EXISTING HOT TUB CHEMICAL LOOP PUMP	121 POOL FILTRATION	STA-RITE	K48M2PA105	-	-	-	1.5	3450.0	230/1/60	1, 2
EX-PF-18	1	EXISTING HOT TUB CIRCULATION PUMP	121 POOL FILTRATION	BELL & GOSSETT	e-1531 3BD	22.71 (25.24)	17.4 (16.8)	203.2	10.0	1800.0	575/3/60	3, 4
NOTES:	COMPI	ETE WITH INTEGRAL CLOSE-COUPLED STRAINER.										

UNIT NUMBER	QTY UNIT DESCRIPTION	UNIT LOCATION	ELECTRIC	CAL LOAD			VOLT	PH	EC	QUIPMENT		STARTER				D	ISCONNEC	CT	CONTRO	L			EMERGENCY	NOTES
																							POWER	
			MCA	FLA	KW	HP			s	ı	С	s	ı	С	TYPE	s	ı	С	S	1	С	TYPE	(YES/NO)	
EX-PF-03	1 EXISTING HYDRO-AIR JET BOOSTER PUMP	121 POOL FILTRATION	-	-	-	10	575	3 1	MECH	MECH	ELEC	ELEC	ELEC	ELEC	CP	ELEC	ELEC	ELEC	ELEC	ELEC	ELEC	WS	NO	1, 2
EX-PF-11	1 EXISTING HOT TUB CHEMICAL LOOP PUMP	121 POOL FILTRATION	-	-	-	1.5	230	1 I	MECH	MECH	ELEC	ELEC	ELEC	ELEC	-	ELEC	ELEC	ELEC	ELEC	ELEC	ELEC	-	NO	3, 4
EX-PF-18	1 EXISTING HOT TUB CIRCULATION PUMP	121 POOL FILTRATION	-	-	-	20	575	3 1	MECH	MECH	ELEC	ELEC	ELEC	ELEC	VFD	ELEC	ELEC	ELEC	ELEC	ELEC	ELEC	-	NO	3, 4, 5
	SUPPLIER / INSTALL / WIRE CODES:	CONTROL DEVICE CODES:			ELECTRIC	CAL LOAD C	CODES:		•	•		GENERAL	NOTES:											
	MECH = MECHANICAL	AQUA = PUMP CONTROLLED BY AQUASTAT	AQUA = PUMP CONTROLLED BY AQUASTAT  BHP = BRAKE HORSEPOWER  A. CONTROL PANELS ARE SHIPPED LOSS & REQUIRE FIELD WIRING																					
	ELEC = ELECTRICAL	BMS = BLDG MANAGEMENT SYSTEM	NIT FULL LOAD AMPS  B. CP, VFD EQUIPMENT REQUIRES POWER WIRING TO AND FROM CONTROL PANEL																					
G = GENERAL CONTRACTOR E		ES = END SWITCH	= UNIT OR MOTOR HORSE POWER TO CONTROLLED EQUIPMENT																					
S = SUPPLIED BY		ET = LINE VOLTAGE T'STAT	LINE VOLTAGE T'STAT PH = POWER PHAS						I = POWER PHASE															
	I = INSTALLED BY	FA = FIRE ALARM MCA = MINIMUM CI						CA = MINIMUM CIRCUIT AMPS <u>NOTES:</u>																
	C = CONNECTED BY	FAP = FIRE ALARM PANEL VOLT = REQUIRE						REQUIRED SUPPLY VOLTAGE 1. EXISTING PUMP, RELOCATED AS PART OF RENO							F RENOVA	TIONS.								
	FS = FLOW SWITCH			2. RECONNECT TO EXISTING HYDRO-AIR JET CONTROL PANEL I									NTERFACE	Ξ.										
	STARTER CODES: GS = GAS SENSOR		MISCELLANEOUS CODES:									3. EXISTING PUMP, RETURNED TO ORIGINAL LOCATION AFTER SERVICING DURING SEPTEMBER 2023												
	MAN = MANUAL STARTER H = HUMIDITY SENSOR				FFCP = FIRE FIGHTERS CONTROL PANEL						ANNUAL SHUTDOWN.													
	HOA = MAGNETIC STARTER W/ HAND/OFF/AUTO	I = INTERLOCK, SEE NOTES	= FRACTIONAL HORSEPOWER 4. RECONNECT TO EXISTING CONTROLS.																					
	SWITCH W/ AUX. CONTACTS	LIGHT = WIRED TO LIGHT SWITCH	IGHT = WIRED TO LIGHT SWITCH INT = INTEGRAL PART OF UNIT 5. RECONNET TO EXISTING ASSOCIATED VFD.																					
	MAG = MAGNETIC STARTER C/W AUX STATUS CONTACTS	LS = LEVEL SWITCH																						
	MRR = MOTOR RATED RELAY, 24 VAC COIL	OS = OCCUPANT SENSOR																						
	& MOTOR PROTECTION SWITCH  PCS = PACKAGED CONTROL SYSTEM  VFD = VARIABLE FREQUENCY DRIVE  PS = PRESSURE SWITCH  R. STAT = REVERSE ACTING THERMOSTAT  TC = TIME CLOCK																							
	RVS = REDUCED VOLTAGE STARTER	T = LOW VOLTAGE T'STAT OR SENSOR																						
	WS = WALL SWITCH	TS = TAMPER SWITCH																						
	CP = CONTROL PANEL	VS = VARIABLE SPEED SWITCH																						
		WS = WALL SWITCH																						

EX-PF-18

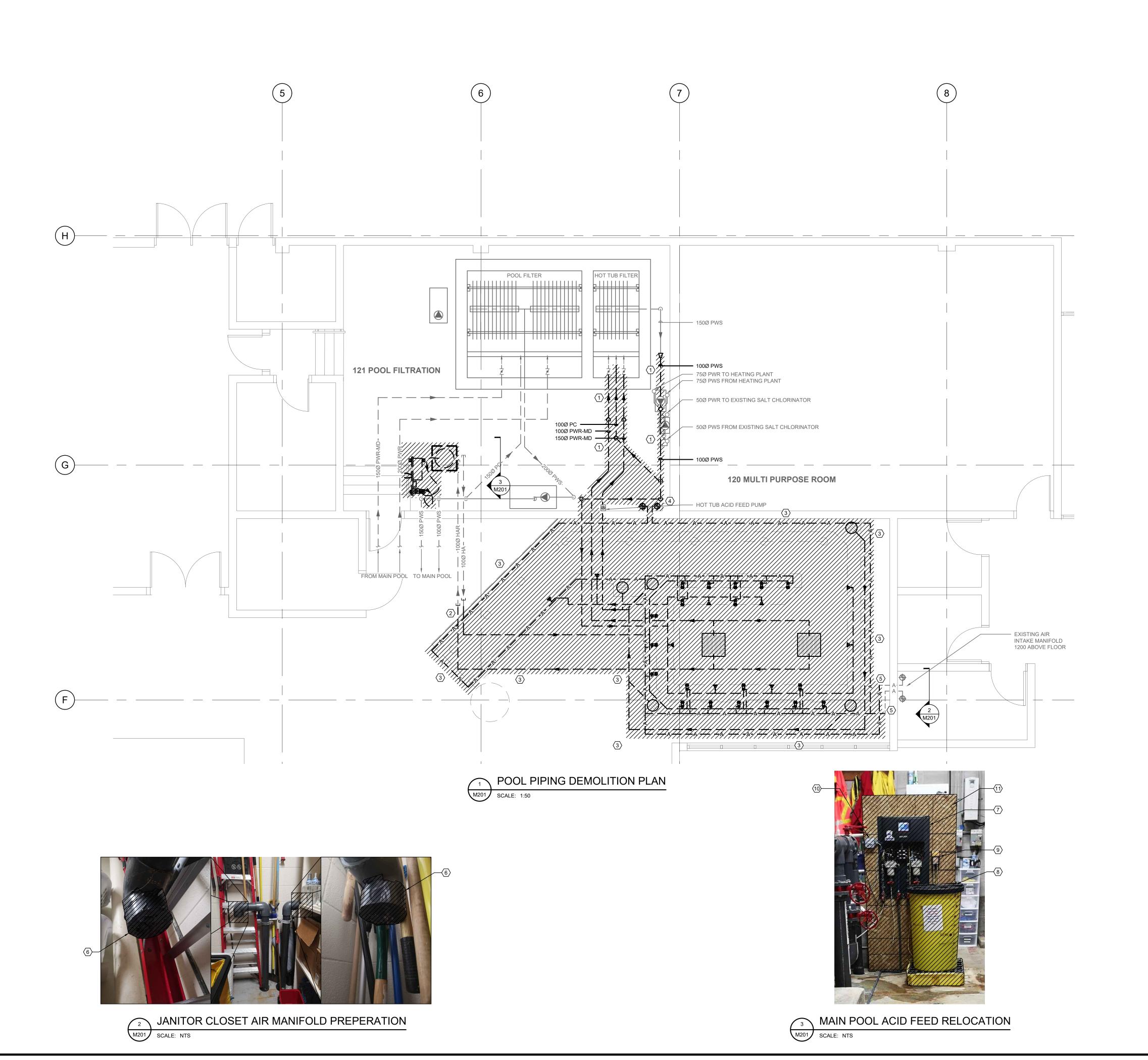
EX-PF-03

EX-PF-18

EX-PF-18, EX-PF-03

BALANCE TO ORIGINAL FLOW RATE. BALANCE TO INDICATED FLOW RATE.

COMPLETE WITH EXISTING VFD.



KEY NOTES

- 1 DEMOLISH BURIED PIPING TO/FROM HOT TUB'S VACUUM DE FILTER TANK. RETAIN LONG-HANDLED BUTTERFLY VALVES IN TANK FOR REUSE DURING RENOVATION. DEMOLISH ABOVE-GROUND 100Ø HOT TUB PIPING.
- (2) DEMOLISH EXISTING 100Ø HYDRO-AIR JET SUPPLY/RETURN LINES UP TO EDGE OF EXISTING HOT TUB'S FOOTPRINT. CAP AND ABANDON IN PLACE.
- (3) DEMOLISH ALL REMAINING POOL PIPING AND FIXTURES WITHIN FOOTPRINT OF ORIGINAL HOT TUB.
- 4 DEMOLISH EXISTING AIR INTAKE MANIFOLD LOCATED IN FILTRATION ROOM.
- $\langle 5 \rangle$  DEMOLISH AIR SUPPLY LINES FOR HYDRO-AIR JETS NEAR
- JANITOR CLOSET'S EXISTING AIR INTAKE MANIFOLD UP TO EDGE OF EXISTING HOT TUB'S FOOTPRINT. (6) REMOVE TAPE COVERING EXISTING AIR INTAKE MANIFOLD
- IN JANITOR'S CLOSET. (7) REMOVE AQUATOUCH+ CHEMICAL CONTROLLER FROM TEMPORARY PLYWOOD WALL AND PREPARE FOR
- RELOCATION TO ORIGINAL LOCATION (REFER TO 1/M202). 8 REMOVE MAIN POOL ACID FEED TANK AND ASSOCIATED SPLASH PAD FROM NEXT TO TEMPORARY PLYWOOD WALL,
- 9 REMOVE YELLOW MAIN POOL ACID FEED PUMP AND ASSOCIATED TUBING FROM TEMPORARY PLYWOOD WALL, AND PREPARE FOR RELOCATION TO ORIGINAL LOCATION (REFER TO 1/M202).

AND PREPARE FOR RELOCATION TO ORIGINAL LOCATION

DISCONNECT AND REMOVE AQUATOUCH+ TO CHLORINATION CONTROLLER INTERFACE SWITCHES. RETAIN FOR RELOCATION.

(REFER TO 1/M202).

DEMOLISH TEMPORARY PLYWOOD ACID FEED CONTROLLER MOUNTING WALL.

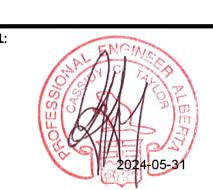
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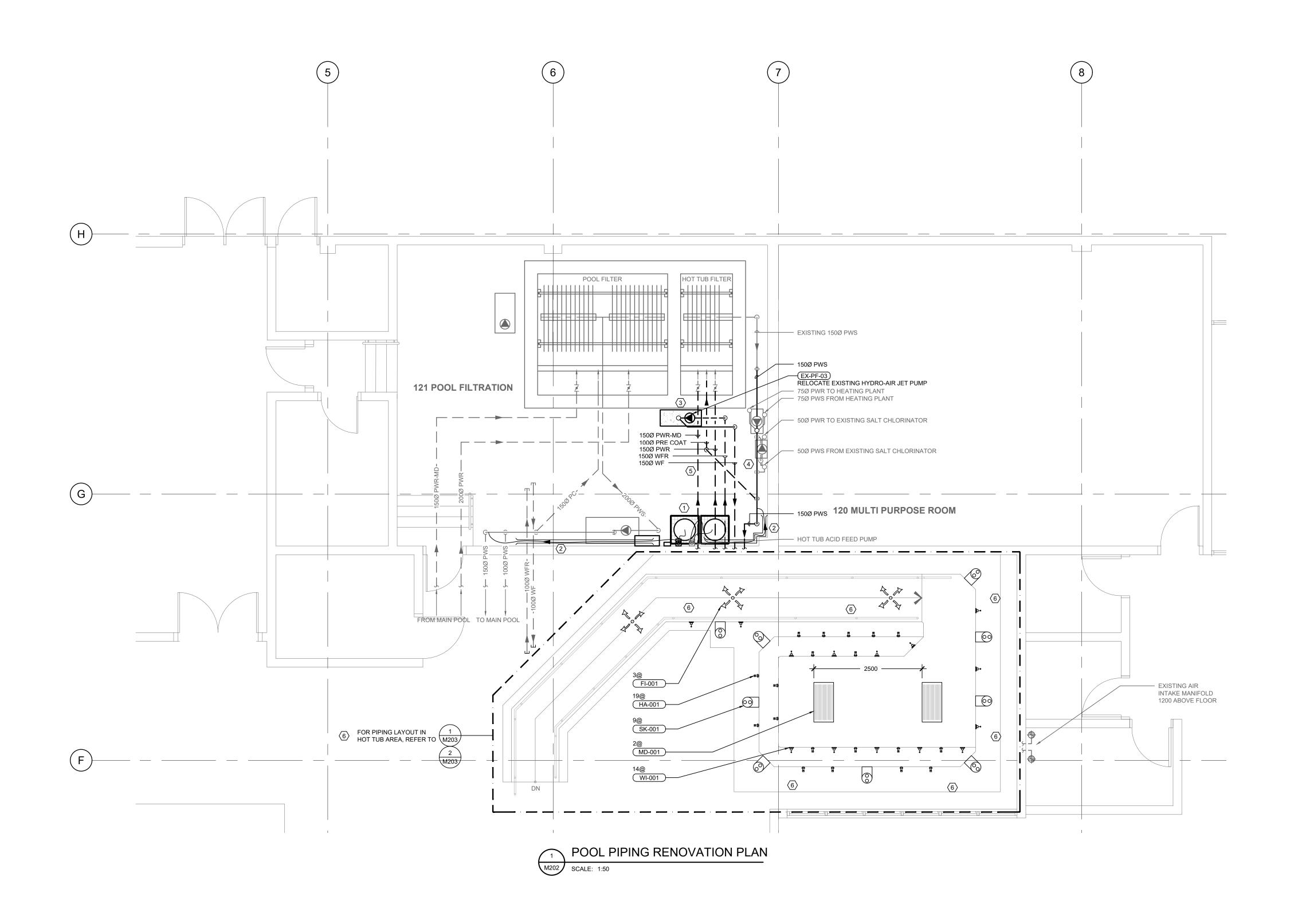


TOWN OF PEACE RIVER - HOT TUB REPLACEMENT

PROJECT ADDRESS: 9911 - 100 STREET P.O. BOX 6600 PEACE RIVER, ALBERTA T8S 1S4

J. M. BARNARD C. TAYLOR MAY 31, 2024

DRAWING TITLE:
POOL PIPING DEMOLITION PLAN



## KEY NOTES

- RETURN ACID FEED TANKS, ACID FEED CONTROLLER, AND ASSOCIATED PUMPS AND CONTROLS TO LOCATION INDICATED AT END OF CONSTRUCTION.
- RECONNECT ACID FEED FLEXIBLE TUBING TO HOT TUB AND MAIN POOL ABOVE-GROUND PIPING. RUN FLEXIBLE TUBING WITHIN 1/4"Ø PVC PIPE ALONG WALL FOR SPILL CONTROL.
- WITHIN 1/4"Ø PVC PIPE ALONG WALL FOR SPILL CONTROL.

  (3) RELOCATE EXISTING HYDRO-AIR JET PUMP, COMPLETE WITH NEW EQUIPMENT PAD.
- WITH NEW EQUIPMENT PAD.

  (4) INSTALL NEW ABOVE-GROUND HOT TUB PIPING,
- ASSOCIATED VALVES AND FITTINGS.
- (5) INSTALL NEW BURIED HOT TUB PIPING TO/FROM HOT TUB. COORDINATE EXCAVATION WITH STRUCTURAL.
- (6) INSTALL NEW HOT TUB FIXTURES. INSTALL NEW PIPING IN HOT TUB AREA. REFER TO 1/M203 FOR PIPING LAYOUT.

721 Johnson St Victoria BC, V8W 1M8

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REV.	DATE	DESCRIPTION
1.	2023-11-15	ISSUED FOR 50% COORDINATION
2.	2023-12-01	ISSUED FOR 90% COORDINATION
3.	2023-12-22	ISSUED FOR PERMIT
4.	2024-04-01	RE-ISSUED FOR PERMIT
5.	2024-05-31	ISSUED FOR TENDER

PERMIT TO PRACTICE
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RM SIGNATURE:

RM APEGA ID #:

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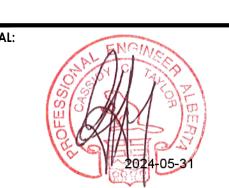
DATE:

05/31/2024

PERMIT NUMBER: P009296

The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

CONSULTAN



PROJECT T

TOWN OF PEACE RIVER - HOT TUB REPLACEMENT

PROJECT ADDRESS:
9911 - 100 STREET
P.O. BOX 6600
PEACE RIVER, ALBERTA
T8S 1S4

DRAWN BY

CHECKED BY

C. TAYLOR

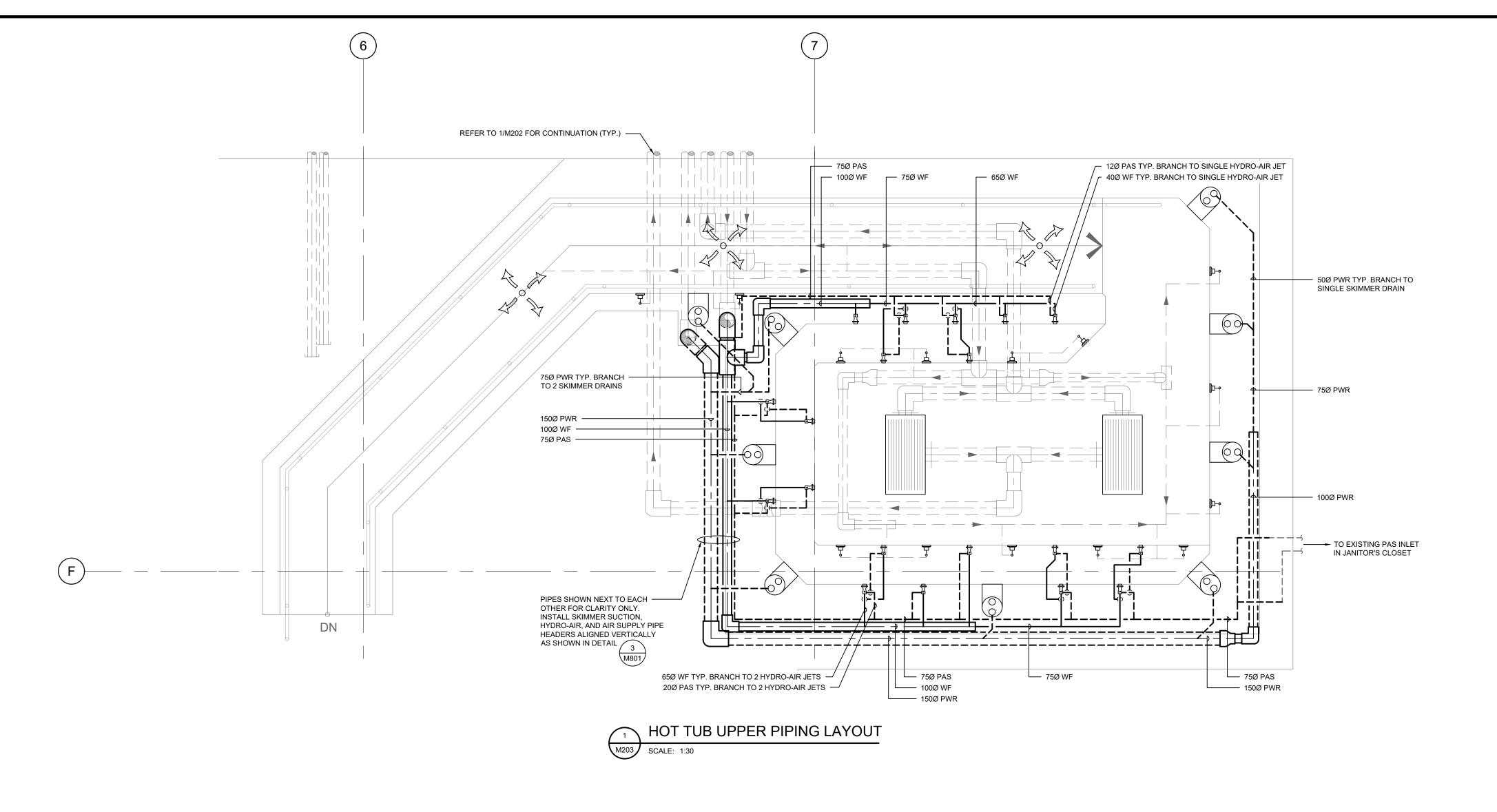
SCALE

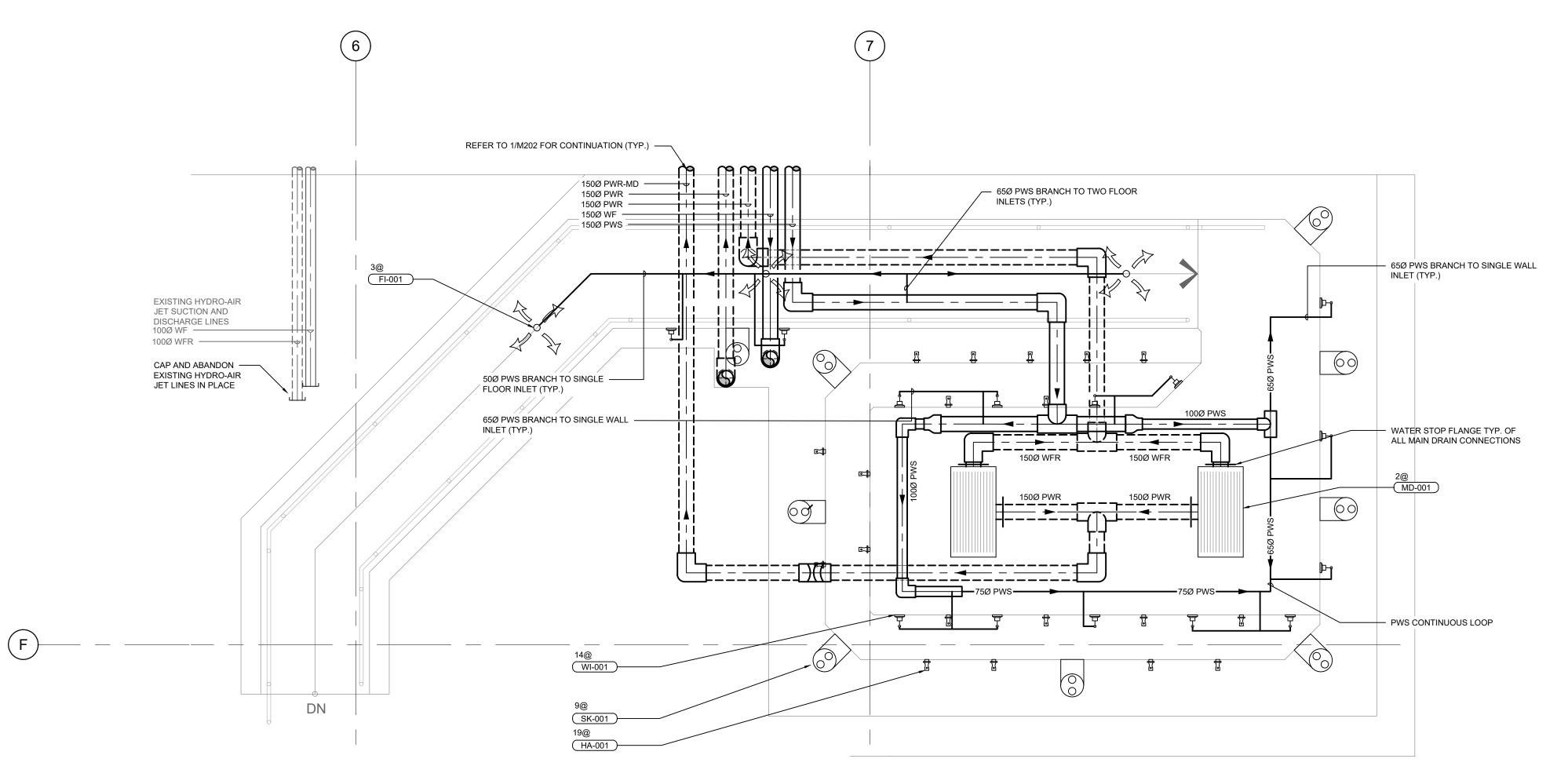
DATE

MAY 31, 2024

POOL PIPING
RENOVATION PLAN

PROJECT NO. DRAWING NO. 526e-001-23 M202





HOT TUB LOWER PIPING LAYOUT

SCALE: 1:30



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5.	2024-05-31	ISSUED FOR TENDER

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RM APEGA ID #: 227412 DATE: 05/31/2024 PERMIT NUMBER: P009296

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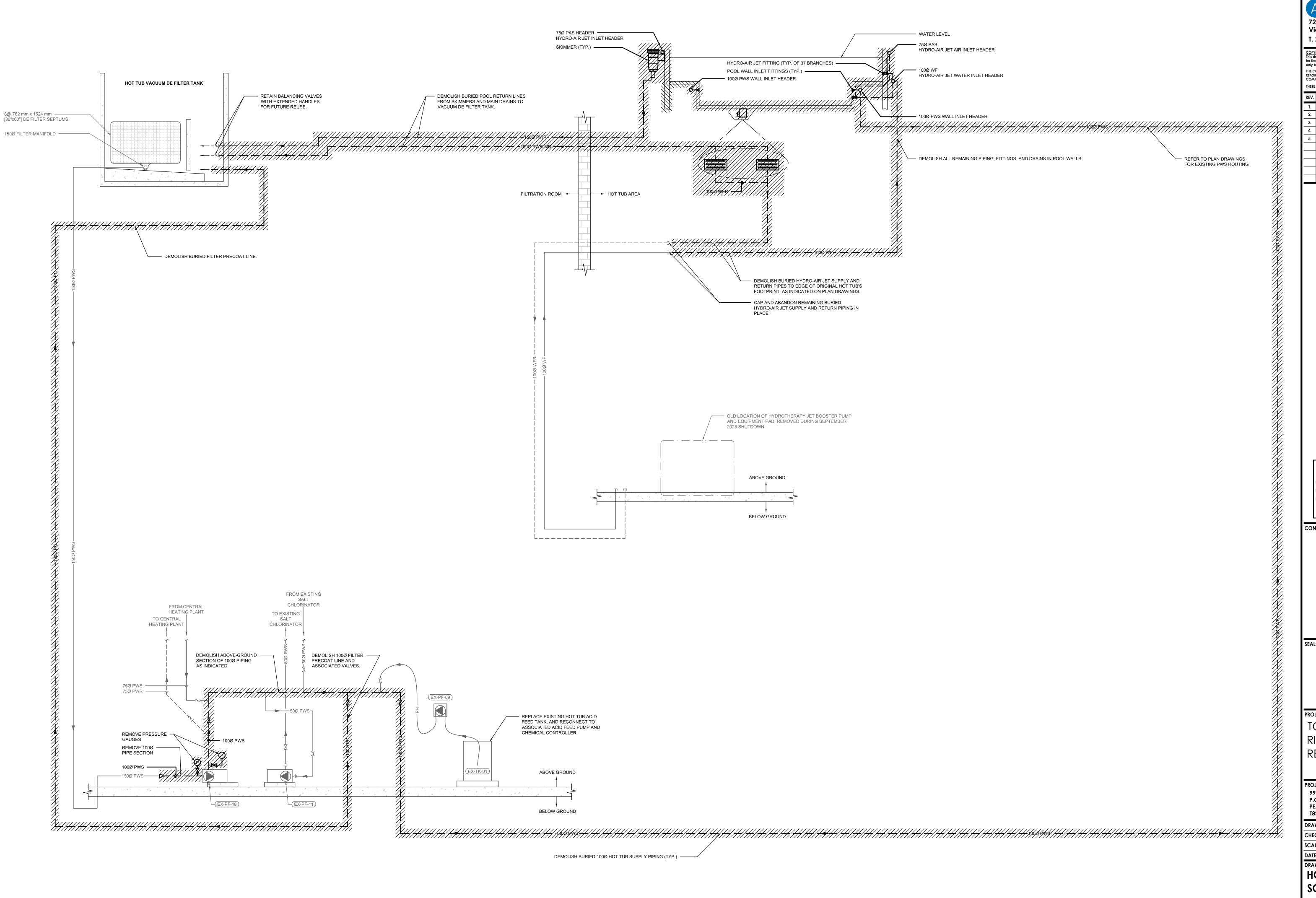
PROJECT TITLE:

TOWN OF PEACE RIVER - HOT TUB REPLACEMENT

PROJECT ADDRESS: 9911 - 100 STREET P.O. BOX 6600 PEACE RIVER, ALBERTA T8S 1S4

DRAWN BY	J. M. BARNARD
CHECKED BY	C. TAYLOR
SCALE	1:30
DATE	MAY 31, 2024

DRAWING TITLE:
HOT TUB PIPING LAYOUT





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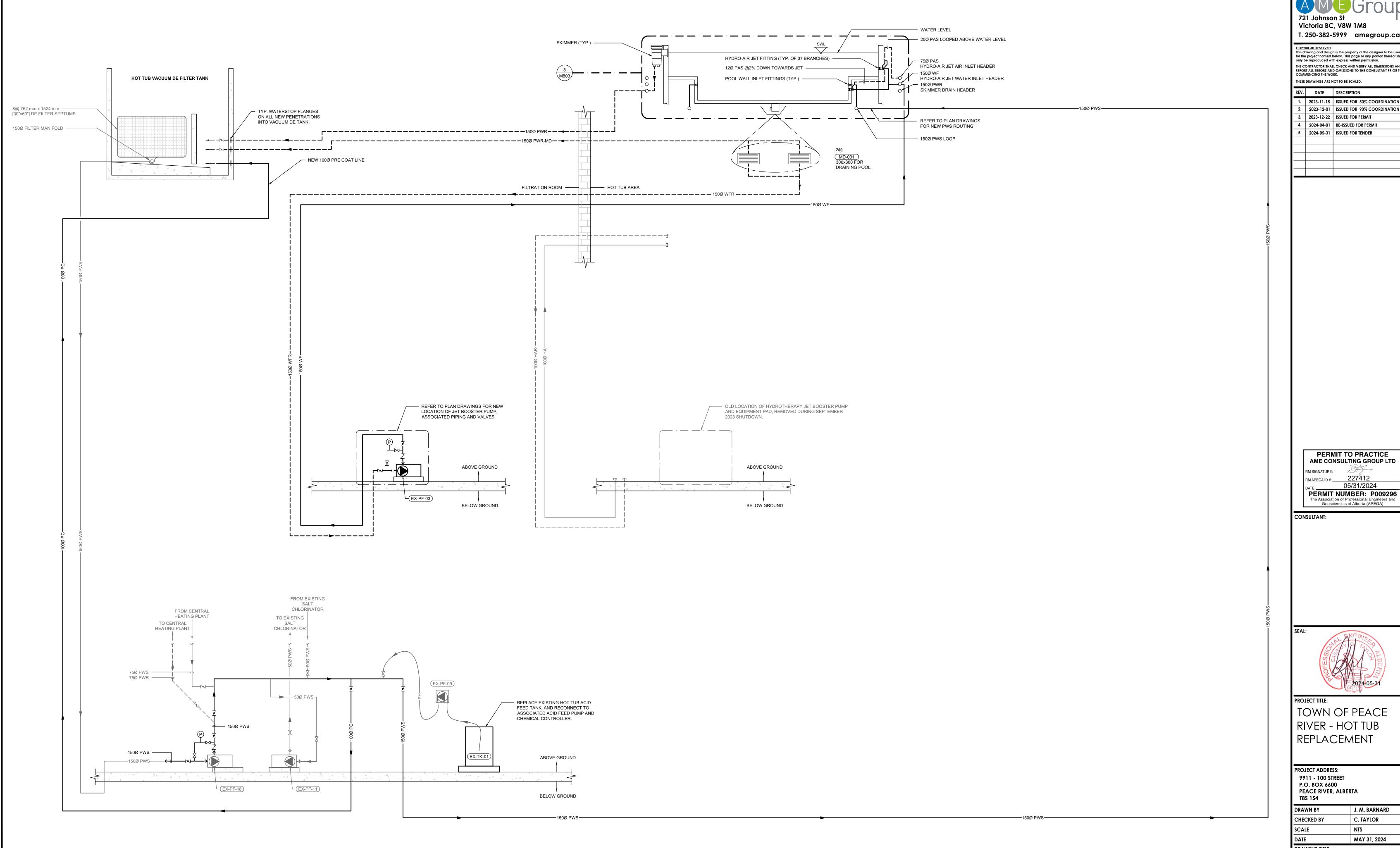
TOWN OF PEACE RIVER - HOT TUB REPLACEMENT

PROJECT ADDRESS: 9911 - 100 STREET P.O. BOX 6600 PEACE RIVER, ALBERTA T8S 1S4

DRAWN BY	J. M. BARNARD
CHECKED BY	C. TAYLOR
SCALE	NTS
DATE	MAY 31, 2024

DRAWING TITLE: HOT TUB DEMOLITION

SCHEMATIC





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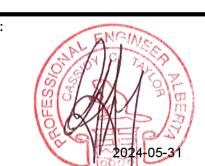
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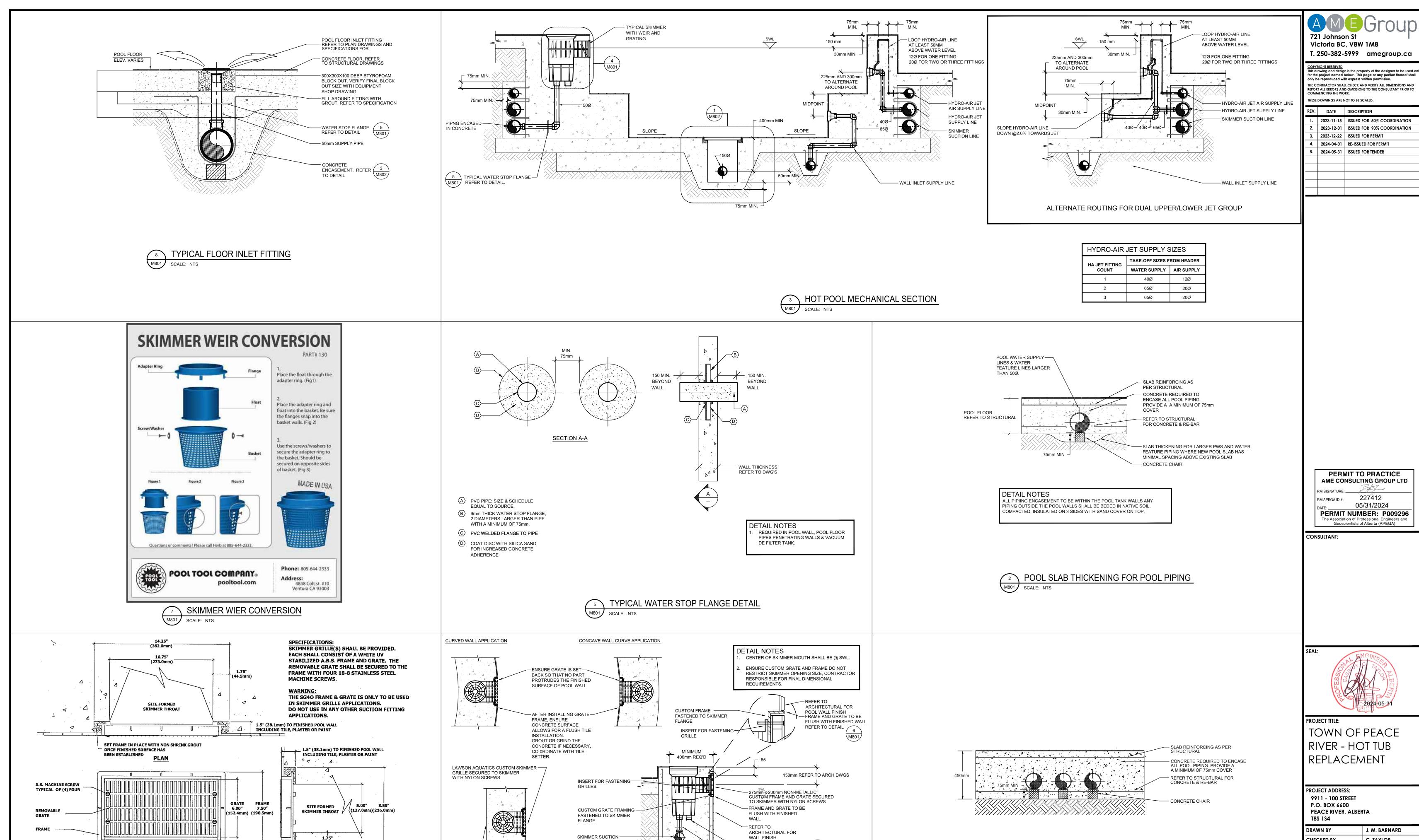


TOWN OF PEACE RIVER - HOT TUB REPLACEMENT

PROJECT ADDRESS: 9911 - 100 STREET P.O. BOX 6600 PEACE RIVER, ALBERTA T8S 1S4

DRAWN BY	J. M. BARNARD
CHECKED BY	C. TAYLOR
SCALE	NTS
DATE	MAY 31, 2024

DRAWING TITLE:
HOT TUB RENOVATION SCHEMATIC



HEADER, REFER TO PLAN

DRAWINGS FOR SIZING

TYPICAL SKIMMERS REQUIRE

MODIFICATION. CUT APPROX

SKIMMER WEIR CONVERSION

REQUIRED FOR SKIMMER
MODIFICATION. REFER TO DETAIL

50MM OFF THE SKIMMER'S

THROAT TO REDUCE THE OVERALL WIDTH TO 320MM. - CAP EQUALIZER LINES.

TYP FOR ALL SKIMMERS.

5
M801

— CAP EQUALIZER LINES.

— TYPICAL WATER STOP

FLANGE. REFER TO DETAIL

POOL SKIMMER DETAIL

M801 SCALE: NTS

(44.5mm)

SET FRAME IN PLACE WITH NON SHRINK

GROUT ONCE FINISHED SURFACE HAS

SECTION

-GRATE 11.75" (298.5mm) -

-FRAME 13.25" (336.6mm)

**ELEVATION** 

CUSTOM SKIMMER GRATE AND FRAME
SCALE: NTS

COLD JOINT -

320 —

TOWN OF PEACE RIVER - HOT TUB

RAWN BY	J. M. BARNARD
CHECKED BY	C. TAYLOR
CALE	AS SHOWN
)ATE	MAY 31, 2024

DRAWING TITLE:

POOL PIPES IN POOL FLOOR

SCALE: NTS

MECHANICAL DETAILS I

