AT A

APPENDIX A – PROJECT DRAWINGS



GENERAL NOTES:

- 1. THE GENERAL NOTES APPLY TO THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY.
- 2. READ THIS SET OF DRAWINGS IN CONJUNCTION WITH OTHER CONTRACT DOCUMENTS AND SPECIFICATIONS RELATING TO STRUCTURAL ENGINEERING AND OTHER DISCIPLINES. THESE DRAWINGS AND SPECIFICATIONS SHALL BE AND OTHER DISCIPLINES. THESE DRAWINGS AND SPECIFICATIONS SHALL BE CONSIDERED AN INTEGRAL PART OF THE CONTRACT DOCUMENTS, NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. CONTRACTOR SHALL REPORT OF ANY DISCREPANCIES IMMEDIATELY FOR CLARIFICATION TO THE ENGINEER. IN THE EVENT OF A DISCREPANCY BETWEEN THE VARIOUS DOCUMENTS, THE MORE STRINGENT PROVISIONS SHALL APPLY.
- 3. DESIGN AND CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST EDITION CODES, STANDARDS, RULES AND REGULATIONS (AND LOCAL AUTHORITIES AVING JURISDICTION). THE LATEST EDITION CODE TO GOVERN EXCEPT WHERE OTHER APPLICABLE CODES OR THE FOLLOWING NOTES ARE MORE RESTRICTIVE
- 4. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION" IN THE REVISION COLUMN.
- FOR CONDITIONS NOT EXPLICITLY SHOWN, CONTRACTOR SHALL REQUEST FOR CLARIFICATION FROM THE ENGINEER.
- 6. ALL DIMENSIONS IN MM UNLESS NOTED OTHERWISE
- 7. CONTRACTOR TO MAINTAIN ACCESS TO THE MECHANICAL FILTRATION ROOM FOR THE DURATION OF CONSTRUCTION.

FIELD REVIEW AND TESTING:

- 1. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE WORK AND ENSURING CONFORMANCE TO DRAWINGS AND CONTRACT DOCUMENTS PRIOR TO THE FIELD REVIEW OF THE ENGINEER.
- THE CONTRACTOR SHALL GIVE REASONABLE ADVANCE NOTICE OF WHEN THE STRUCTURAL WORK IS GENERALLY COMPLETED AND READY FOR REVIEW. THE STRUCTURAL WORK CANNOT BE CONCEALED BY FINISHES OR OTHER MEANS WITHOUT PRIOR PERMISSION BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS IN ADVANCE FOR THE FOLLOWING FIELD REVIEWS:
- -INSTALLATION OF FLOOR COATINGS.
- 3. THE STRUCTURAL WORK MUST BE SUBSTANTIALLY COMPLETE AT THE TIME OF FIELD REVIEW. ANY WORK FOUND INCOMPLETE OR DEFICIENT AT THE TIME OF FIELD REVIEW MAY REQUIRE ADDITIONAL FIELD REVIEWS BY THE ENGINEER OR ADDITIONAL MATERIAL TESTING AT THE EXPENSE OF THE CONTRACTOR.
- 4. THE FIELD REVIEW IS CONDUCTED FOR THE SOLE PURPOSE OF ENSURING REPIELD REVIEW IS CONDUCTED FOR THE SOLE PORCE OF ENSURING GENERAL CONFORMANCE TO THE DRAWINGS AND CONTRACT DOCUMENTS. THE REVIEW IS CONDUCTED AT ANY STAGE AT THE DISCRETION OF THE ENGINEER AND DOES NOT GUARANTEE THE WORK OF THE CONTRACTOR.

DEMOLITION NOTES

- 1. CONTRACTOR TO FOLLOW OH&S REGULATIONS OR CSA 350, LATEST EDITIONS, WHICHEVER GOVERNS, FOR ALL WORK.
- 2. HATCHED ITEMS TO BE ADDRESSED.
- 3. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROCESS DEMOLITION PLAN DRAWING DD-101
- 4. CONTRACTOR TO CONFIRM ALL SITE DIMENSIONS PRIOR TO COMMENCING WORK
- 5. PRIOR TO ANY WORK AND/OR DEMOLITION, CONTRACTOR TO PROVIDE A DETAILED DEMOLITION PLAN FOR REVIEW.
- 6. DEMOLISH EXISTING CONCRETE BY SAW CUTTING OR WIRE CUTTING.
- 7. EQUIPMENT AND METHODS FOR CONCRETE DEMOLITION AND REMOVAL MUST NOT INCLUDE VIBRATIONS THAT MAY INDUCE CRACKING
- 8. CUT EXISTING REINFORCING BACK 40mm FROM CONCRETE SURFACE AND PATCH WITH SIKADUR 32 HI-MOD GEL SEALANT AND INSTALL AS PER MANUFACTURERS INSTRUCTIONS.
- 9. NO OVER CUTTING PERMITTED.
- 10. CONTRACTOR TO PROVIDE TEMPORARY SUPPORTS AS REQUIRED.
- 11. ANY DAMAGE TO EXISTING STRUCTURE SHALL BE MADE WHOLE.
- 12. CONTRACTOR TO OBTAIN ENGINEERS APPROVAL PRIOR TO STARTING NEW WORK FOLLOWING THE COMPLETION OF DEMOLITION WORK

FLOOR COATINGS

- 1. CONTRACTOR TO PREPARE ALL SURFACES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS
- 2. COATING TO BE SIKAGUARD 381. SUBMIT ALTERNATE PRODUCTS TO ENGINEER FOR APPROVAL.
- 3. SUBMIT FLOOR COATING AND PRIMER PRODUCT DATA AND APPLICATION PROCEDURES FOR REVIEW.
- PRODUCT SHALL BE APPLIED BY APPLICATORS WITH A MINIMUM 5 YEARS OF EXPERIENCE WITH SIMILAR COATING SYSTEMS.
- 5. RETURN COATING UP EXISTING EQUIPMENT PADS AND WALLS MINIMUM 100mm.
- 6. CONTRACTOR TO COMPLETE A MOISTURE TEST ON NEW CONCRETE TO CONFIRM CONFORMANCE TO COATING APPLICATION REQUIREMENTS.

PWGSC - A1 - 841X594

- CAST-IN-PLACE CONCRETE

- SPECIFICATIONS
- 4.

REINFORCING STEEL

- - 3. CAN/CSA-A23.1



CONCRETE: CONFORM TO CAN/CSA-A23.1, NORMAL WEIGHT, MEETING THE FOLLOWING REQUIREMENTS UNLESS NOTED OTHERWISE:

2. FOR CONCRETE STRENGTH, EXPOSURE AND CEMENT TYPE SEE

3. MINIMUM CONCRETE COVER TO REINFORCING IS 50mm U.N.O.

PREPARE EXISTING CONCRETE SURFACES AS PER A23.1/A23.2 PRIOR TO PLACING NEW CONCRETE.

REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA-G30.18, GRADE 400 AND SHALL BE DEFORMED BAR UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

BENDING, CUTTING AND PLACING OF REINFORCING STEEL SHALL CONFORM TO CAN/CSA A23.1 AND CAN/CSA A23.3

REINFORCED CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF







PLAN 1:20 BUILDING 'B' PUMP ROOM



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PI SOURCE WAT PLAN AN	JMP ROOM ER COLLECTIOI D SECTION VIEV	N TANK VS
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PROCESS MECHANICAL

NO. W LIGHTS IS LOCATIONS. NEW LIGHTS	
RCUIT.	
	ASS
	RMS
	P

APPROXIMATE LOCATION OF NEW LED LIGHTING. RAB DESIGN LINEAR VAPOURPROOF FIXTURE, MODEL NUMBER LFW-LEM0-B-4K-TG, 80W, 120V-277V, 4000K TEMPERATURE, SURFACE MOUNT, TEMPERED GLASS.
 ELECTRICAL JB FOR POWERING NEW LIGHTS IS APPROXIMATELY 15M FROM LIGHT LOCATIONS. NEW LIGHTS WILL BE SWITCHED ON EXISTING CIRCUIT.

1. LINE IDENTIFICATION

300 - PW - F4

CPVC PIPE MATERIAL

2. COMMODITIES:

OV OVERFLOW RW RAW WATER

ELECTRICAL NOTES:

GENERAL NOTES:

- COMMODITY

- LINE SIZE (IN MILLIMETRES)

Public Works and Government Services Canada

Travaux publics et Services gouvernem Canada

REAL PROPERTY SERVICES Western Region SERVICES IMMOBILIERS

Région de l'ouest



PERMIT TO PRACTICE SOCIATED ENGINEERING ALBERTA LTD. Signature Carma Holmes

PERMIT NUMBER: P 03979 Association of Professional Engineers and Geoscientists of Alberta (APEGA)

Client		client
Revision	Description	Date
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PARKS CANADA

NATIONAL OFFICE

30 VICTORIA STREET GATINEAU, QUEBEC

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Approuvé p

strateur de Projets TPSI

Designed by S. LARLEE

Drawn by R. MOLZAN

Approved by M. LEJEUNE

Drawing title

PWGSC Project Manager S. JUSTUS

JASPER, ALBERTA MIETTE ROAD BUILDING 'B'

MIETTE HOTSPRINGS WTP SOURCE WATER COLLECTION TANK



NOTES:

- STANCHION MATERIAL: SCH 40 PIPE (OR AS SPECIFIED), CARBON STEEL OR CAST IRON. EXTERIOR AND SUBMERGED SUPPORT MATERIAL: STAINLESS STEEL (OR AS SPECIFIED)
 FINISH: SHOP PRIME 2 COATS RED OXIDE PRIMER OR GALVANIZE AS SPECIFIED. TOUCH UP FIELD WELDS WITH PRIMER OR GALVANIZING COMPOUND
 ACCEPTABLE VENDORS: ANVIL, B-LINE, OR TAYLOR. ALL PARTS MUST BE FROM SAME MANUFACTURER. (REFER TO SPECIFICATION 40 05 07)

PIPE Ø	20	25	32	40	50	65	80	100	150	200	250	300	350	400	450	500	600	750	900	
'A	20 20 20 20 20 40 40							65	65	65	65	65	80	80	100	100	100	100	100	
В	152	156	161	165	170	181	189	205	236	273	300	325	370	395	446	472	522	627	703	
C MAX	800								1200								1850			
BASE	152 x 152 x 6 mm						203 x 203 x 10 mm							304 x 304 x 13 mm						
* D	Ø14 mm HOLE						Ø21 mm HOLE						Ø24 mm HOLE							
'E	108							140						229						
	M12x100 M20x100 M22x100																			
DIA x F	F BOLTING TO BE GALVANIZED, OR AS APPROVED. FOR EXIST. CONCRETE, USE HEAVY-DUTY EXPANSION ANCHOR																			

* BASED ON DIMENSION "C" = 457 mm. FOR DIFFERENT HEIGHT, THE STANCHION SIZE AND BASE PLATE SIZE SHALL SUIT MANUFACTURERS' SPECIFICATION.

	TYPICAL DETAIL	NTS
' J	BASE SUPPORT - PIPE STANCHION WITH CLAMP	(ADJUSTABLE)





- LAG BOLTS

PLATE WASHER

- WALL BRACKET

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1. FOR ANY OTHER TYPE OF INSTALLATION, PLEASE REFER TO MANUFACTURE'S

- FOR ANY OTHER TYPE OF INSTALLATION, PLEASE REFER TO MANUFACTURE'S
 SPECIFICATIONS
 ACCEPTABLE PRODUCTS: ANVIL, B-LINE, OR EQUIVALENT. ALL PARTS MUST BE FROM SAME
 MANUFACTURER
 SL. IS THE SAFE TOTAL UNIFORMLY DISTRIBUTED LOAD IN KILOGRAMS WITH A MAXIMUM
 DEFLECTION OF 6 mm
 FINISH: SHOP PRIME WITH 2 COATS RED OXIDE PRIMER OR GALVANIZED AS PER SPECS.
 CONTRACTOR TO PROVIDE HANGER SYSTEM DESIGN DETAILS INCLUDING LOCATIONS, LOAD
 INFORMATION, DESIGN CALCULATIONS AND ILLUSTRATIVE DRAWINGS, STAMPED AND
 SIGNED BY A PROFESSIONAL ENGINEER

	TYPICAL DETAIL	NTS
L ⁴ J	HANGING SUPPORT - STANDARD CLEVIS/CLAMP HAN	NGER

TABLE "C"

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	MAXIMUM HOP	RIZON	TAL S	PACI	NG BE	TWEE	EN PIF	PE SUI		RTS		-				
	NOMINAL PIPE DIAMETER (mm)	15	20	25	40	50	65	80	100	150	200	_				
	MAX. SPAN (mm) WATER SERVICE	1000	1000	1200	1400	1800	1800	2100	2100	2400	2400					
	RECOMMENDED HANGER ROD SIZE	10	10	10	10	10	13	13	16	19	19	-				
	MAXIMUM HOP	RIZON	TAL S	PACI	NG BE	TWEE	EN PIF	PE SUI	PPOF	RTS		-				
	DIAMETER (mm)	250	300	350	400	450	500	600				-				
	MAX. SPAN (mm) WATER SERVICE	2400	2400	2800	2800	2800	2800	2800				-				
	RECOMMENDED HANGER ROD SIZE	22	22	25	25	25	25	25				-				
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