



Revision	Description	Date
4	ISSUED FOR CONSTRUCTION	2020/03/06
3	ISSUED FOR 90% REVIEW	2019/08/09
2	ISSUED FOR 60% REVIEW	2019/05/09
1	ISSUED FOR 30% REVIEW	2019/03/14

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Project Title: **JASPER STAFF HOUSING CONSTRUCTION**

DUPLEX
720 PATRICIA STREET,
JASPER, AB, T0E 1E0

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Drawing Title: **LEGENDS AND SCHEDULES**

LEGENDS AND SCHEDULES

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.100429.001	M1.1	4

HEAT RECOVERY VENTILATOR SCHEDULE														
TAG	EQUIPMENT	SERVICE & LOCATION	MANUFACTURER	MODEL & TYPE	FRESH AIR FLOW, L/S	EXHAUST AIR FLOW, L/S	EXTERNAL AIR TEMPERATURE, (C) WINTER / SUMMER	MOTOR SIZES, FLA, SUPPLY / EXHAUST	POWER SUPPLY (V/PH/ Hz - A)	WATTS	WEIGHT, KG	TYPE	COMMENTS	KEYNOTES
HRV-1	HEAT RECOVERY UNIT	SUITES	VANEE	70E ERV	24/48	22/44	-33 / 29	1 / 0.8	120/60/1/ - 0.12	-	14.5	PACKAGE	C/W SPEED CONTROL. WALL SWITCH TO BE INSTALLED OUTSIDE THE BATH ROOM, WITH BACKDRAFT DAMPERS.	1
HRV-2	HEAT RECOVERY UNIT	SUITES	VANEE	ERV 60H	49	44	-33 / 29	1 / 0.8	120/60/1/ - 0.12	-	20.4	PACKAGE	C/W SPEED CONTROL. WALL SWITCH TO BE INSTALLED OUTSIDE THE BATH ROOM, WITH BACKDRAFT DAMPERS.	1

1. CONTRACTOR MAY SUBMIT ALTERNATIVE EQUAL THAT MUST BE APPROVED

EXHAUST FAN SCHEDULE											
TAG	EQUIPMENT	SERVICE & LOCATION	MANUFACTURER	MODEL & TYPE	EXHAUST AIR FLOW, L/S	STATIC PRESSURE (PA)	SONES	MOTOR SIZE, WT	POWER SUPPLY (V/PH/Hz - A)	COMMENTS	KEYNOTES
EF-1	EXHAUST FAN	WASHROOM	BROAN	QTR070C	24	50	0.8	25	120/1/60	C/W WALL BOX, AND BACKDRAFT DAMPER.	1
EF-2	EXHAUST FAN	WASHROOM	BROAN	QTR070C	24	50	0.8	25	120/1/60	C/W WALL BOX, AND BACKDRAFT DAMPER.	1
RH-1	RANGE HOOD	RANGEHOOD EXHAUST	BROAN	QT230WWN	47 / 95	57.27	-	1.7 AMPS	115/1/60	C/W VARIABLE SPEED SELECTION AND BACKDRAFT DAMPER, CONTROLLED BY LOCAL EXHAUST HOOD SWITCH.	1
RH-2	RANGE HOOD	RANGEHOOD EXHAUST	BROAN	QT230WWN	47 / 95	57.27	-	1.7 AMPS	115/1/60	C/W VARIABLE SPEED SELECTION AND BACKDRAFT DAMPER, CONTROLLED BY LOCAL EXHAUST HOOD SWITCH.	1
RD-1	RADON EXHAUST	MECHANICAL ROOM	RADON AWAY	XP151	54	0.5	-	60	120/1/60	C/W WALL CAP, AND BACKDRAFT DAMPER.	1
RD-2	RADON EXHAUST	MECHANICAL ROOM	RADON AWAY	XP151	54	0.5	-	60	120/1/60	C/W WALL CAP, AND BACKDRAFT DAMPER.	1

1. CONTRACTOR MAY SUBMIT ALTERNATIVE EQUAL THAT MUST BE APPROVED

FURNACE SCHEDULE													
TAG	SERVICE	MANUF. AND MODEL/SERIES	CAPACITY (CFM)	HEAD (IN W.C)	GAS INPUT (CFH)	HEAT INPUT (MBH)	HEAT OUTPUT (MBH)	V/Hz/P	UNIT AMPACITY (AMPS)	MAXIMUM INPUT (AMPS)	MOTOR (HP)	COMMENTS	KEYNOTES
FUR-1	MECH ROOM	CARRIER: 595CSA060514-10	1190	0.40	60	60	58	120 / 60 / 1	9.7	7	0.5	END UNITS C/W HONEYWELL T6 PRO THERMOSTAT. C/W NEUTRALIZER AT CONDENSATE DRAIN.	1
FUR-2	MECH ROOM	CARRIER: 595CSA060514-10	1190	0.40	60	60	58	120 / 60 / 1	9.7	7	0.5	END UNITS C/W HONEYWELL T6 PRO THERMOSTAT. C/W NEUTRALIZER AT CONDENSATE DRAIN.	1

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PUMP SCHEDULE											
TAG	SERVICE & LOCATION	MANUFACTURER	MODEL & TYPE	FLOW, L/S	HEAD, (M)	POWER SUPPLY (V/PH/Hz)	AMP	FLA	MOTOR (HP)	COMMENTS	KEYNOTES
P-1	MECHANICAL ROOM WEEPING TILE SUMP	MYERS	MSC1050M20	2.4	7	115/1/60	15	-	0.5	C/W SIMPLEX CONTROL PACKAGE, STEEL LID, CHECK VALVE, FLOAT BRACKET, LIFT CHAIN PACKAGE.	1

1. CONTRACTOR MAY SUBMIT ALTERNATIVE EQUAL THAT MUST BE APPROVED

DOMESTIC WATER HEATER SCHEDULE								
TAG	EQUIPMENT	SERVICE	MANUF. AND MODEL	STORAGE (L)	RECOVERY RATE AT 32°C (LPH)	V/Hz/P	COMMENTS	KEYNOTES
DWH-1	HOT WATER HEATER	MECH ROOM	GSW - G650T45N-PDV-E52	189	163	120/60/1	POWER DIRECT VENT GAS WATER HEATERS, COMPLY WITH ASHRAE 90.1-2010. C/W AUTOMATIC TEMPERATURE CONTROL. C/W FACTORY INSTALLED TEMPERATURE AND PRESSURE RELIEF VALVE.	1
DWH-2	HOT WATER HEATER	MECH ROOM	GSW - G650T45N-PDV-E52	189	163	120/60/1	POWER DIRECT VENT GAS WATER HEATERS, COMPLY WITH ASHRAE 90.1-2010. C/W AUTOMATIC TEMPERATURE CONTROL. C/W FACTORY INSTALLED TEMPERATURE AND PRESSURE RELIEF VALVE.	1

1. CONTRACTOR MAY SUBMIT ALTERNATIVE EQUAL THAT MUST BE APPROVED

GRILLE / DIFFUSER SCHEDULE						
TAG	MANUFACTURER	MODEL & TYPE	FINISH	MOUNTING	COMMENTS	KEYNOTES
S1	HART&COOLEY	420	AW	FLOOR	FLOOR DIFFUSER, C/W BALANCING DAMPER, COLOR BY ARCHITECT.	1
S2	EH PRICE	520D	AW	WALL/CEILING	LOUVERED STEEL 20MM BLADE SPACING, DOUBLE DEFLECTION SUPPLY GRILLES, COLOR BY ARCHITECT, MOUNTING TO BE CONFIRMED WITH ARCHITECT'S CEILING PLAN, C/W BALANCING DAMPER.	1
R	EH PRICE	520D	AW	WALL/CEILING	LOUVERED STEEL 20MM BLADE SPACING, DOUBLE DEFLECTION SUPPLY GRILLES, COLOR BY ARCHITECT, MOUNTING TO BE CONFIRMED WITH ARCHITECT'S CEILING PLAN, C/W BALANCING DAMPER.	1
E	EH PRICE	80	AW	CEILING	EGG CRATE GRILLE, COLOR BY ARCHITECT, MOUNTING TO BE CONFIRMED WITH ARCHITECT'S CEILING PLAN.	1
T	EH PRICE	80	AW	WALL	EGG CRATE GRILLE, COLOR BY ARCHITECT, MOUNTING TO BE CONFIRMED WITH ARCHITECT'S.	1
L	EH PRICE	DE439 SERIES	AW	EXTERIOR WALL	COLOR BY ARCHITECT, MOUNTING TO BE CONFIRMED WITH ARCHITECT'S.	1

1. CONTRACTOR MAY SUBMIT ALTERNATIVE EQUAL THAT MUST BE APPROVED

FIRE EXTINGUISHER SCHEDULE						
TAG	MANUFACTURER	LOCATION	FIRE EXTINGUISHER TYPE	MOUNTING	NOM CAP (KG)	TYPE
FE-1	NATIONAL FIRE EQUIPMENT LTD.	UNDER KITCHEN SINK	ABC ALL PURPOSE	HUNG INSIDE CABINET	1.13	HOOK MOUNTING UNDER KITCHEN SINK.

DRAWING LIST	
DRAWING NO.	DRAWING NAME
M1.1	MECHANICAL LEGENDS AND SCHEDULES
M1.2	MECHANICAL DETAILS
M1.3	MECHANICAL SITE PLANS
M2.1	FOUNDATION PLAN & LOWER LEVEL PLUMBING PLAN
M2.2	MAIN & SECOND FLOOR PLUMBING PLAN
M3.1	LOWER LEVEL HEATING AND VENTILATION PLAN
M3.2	MAIN & SECOND FLOOR HEATING AND VENTILATION PLAN
M4.1	MECHANICAL DIAGRAMS

MECHANICAL ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT, AIR ADMITTANCE VALVE
CW	DOMESTIC COLD WATER
FD	FLOOR DRAIN
F/D	FIRE DAMPER
FE	FIRE EXTINGUISHER
FU	FIXTURE UNIT
RC	RAIN CONDUCTOR
SAN	SANITARY WASTE
TC	TEMPERATURE CONTROL
T & P	TEMPERATURE AND PRESSURE
VD	VOLUME DAMPER (MANUALLY ADJUSTABLE)
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THRU ROOF

PLUMBING FIXTURE SCHEDULE			
FIXTURE	CONNECTIONS		
	COLD WATER (mm)	HOT WATER (mm)	SANITARY (mm)
WC	15	-	75
LAV	13	13	32
TUB	15	15	38
SK	13	13	38
WD	15	15	40
NHFB	19	-	-
FD-1	-	-	75

PLUMBING FIXTURE SCHEDULE	
TAG	TYPE
WC	AMERICAN STANDARD HIGH EFFICIENCY FLOW TANK 2467.100.020 OR EQUIVALENT, FLOOR MOUNTED, FLOOR OUTLET, WHITE FINISH, VITREOUS CHINA WITH EVERCLEAN ANTIMICROBIAL SURFACE WHICH INHIBITS THE GROWTH OF STAIN AND ODOR CAUSING BACTERIA MOLD AND MILDEW, SIPHON JET FLUSH ACTION, RAISED SANITARY BAR, TWO (2) PIECE, SPEED CONNECT TANK ASSEMBLY, UNBOLTED TANK COVER, 305mm ROUGH IN, ELONGATED BOWL, 54mm FULLY GLAZED INTERNAL TRAPWAY, BOLT CAPS, CONSISTING OF: 3483.001 BOWL AND 4142.100 TANK UNBOLTED TANK COVER. MINIMUM WORKING PRESSURE RANGE: 20PSI TO 80 PSI MAXIMUM. NOMINAL DIMENSIONS: 495mm WIDE x 794mm FRONT TO BACK x 800mm HIGH. WATER SURFACE: 305mm x 254mm WATER SURFACE. SHIPPING WEIGHT: 47kg. WATER CONSUMPTION: LOW CONSUMPTION 4.2L PER FLUSH. EXTRA HEAVY DUTY, FOR ELONGATED BOWL, OPEN FRONT, SOLID PLASTIC, OPEN FRONT WITH COVER, STAINLESS STEEL CHECK HINGES, METAL FLAT WASHERS STAINLESS STEEL POSTS AND NUTS. CHROME PLATED FINISH ALL METAL CONSTRUCTION, LIGHT DUTY RESIDENTIAL ANGLE STOPS, PIPE NIPPLE, ESCUTCHEON AND FLEXIBLE METAL RISER. FLOOR FLANGE WITH ALL BRASS BOLTS AND WITH RUBBER GASKET (SAME MATERIAL AS THE CONNECTING PIPE DRAIN). 1.
LAV	AMERICAN STANDARD 0614.000.020 AMERICAN STANDARD OR EQUIVALENT, 0614.000.020 UNDERCOUNTER BASIN UNDERCOUNTER BASIN, VITREOUS CHINA, WHITE FINISH, FRONT FINISH, FRONT OVERFLOW, 32mm WASTE ASSEMBLY, TRAPPED BOWL, 047194-0070A MOUNTING KIT, NOMINAL DIMENSIONS: 540mm WIDE x 387mm FRONT TO BACK x 209mm HIGH. BOWL DIMENSIONS: 464mm x 308mm x 171mm. SHIPPING WEIGHT: 12.2kg. BASIN RIM SEALANT. TRIM: MOEN WSL8453 SINGLE HANDLE LAVATORY FAUCET, CHROME PLATED, 102mm CENTERSET, ECASST CONSTRUCTION LEAD FREE (EQUAL OR LESS THAN 25%) ECASST BRASS CONSTRUCTION, VANDAL RESISTANT 4.5 LPM PRESSURE COMPENSATING ECONO-FLO NON-AERATING SPRAY OUTLET, 11.7mm PROJECTION RIGID CAST BRASS SPOUT, SINGLE METAL LEVER HANDLE, 13mm NPSM SUPPLY INLETS AND COUPLING NUT FOR FLEXIBLE RISER. TMM-1070 BELOW DECK MECHANICAL WATER MIXING VALVE, BRONZE BODY, TEMPERATURE ADJUSTING DIAL, 10mm INLETS AND OUTLETS COMPRESSION FITTINGS, HIGH TEMPERATURE THERMOSTATIC LIMIT STOP, SHUT-OFF WITH AUTOMATIC RESET WHEN TEMPERATURE EXCEEDS 48.8°C. INTEGRAL CHECKS, OFFER TEMPERATURE RANGE FROM COLD THROUGH 46°C. TEE, ADAPTORS AND FLEX. COPPER TUBING TO SUIT INSTALLATION. TEMPERED WATER TO HOT SIDE OF THE FAUCET. FAUCET SUPPLIES, CHROME PLATED FINISH ALL METAL CONSTRUCTION, LIGHT DUTY RESIDENTIAL ANGLE STOPS, ESCUTCHEONS AND FLEXIBLE METAL RISERS, LOW LEAD. P-TRAP, ADJUSTABLE ALL METAL CONSTRUCTION, 38mm SIZE, WITH CLEAN OUT, AND ESCUTCHEON. TEE, ADAPTORS AND FLEX. COPPER TUBING TO SUIT INSTALLATION. 1.
SK	FRANKE LBD6408-1/1 OR EQUIVALENT, 1 HOLE DOUBLE BOWL COUNTERTOP MOUNT SINK, SPILL-WAY, GRADE 18-10-20 GA. 0.9mm TYPE 302 STAINLESS STEEL, SELF RIMMING, BACKLEDGE, STAIN FINISH RIM AND BOWLS MOUNTING KIT PROVIDED, FULLY UNDERCOATED TO REDUCE CONDENSATION AND RESONANCE, FACTORY APPLIED RIM SEAL, 89mm CRUMB CUP WASTE ASSEMBLY WITH 38mm TAILPIECE. NOMINAL DIMENSIONS: 794mm WIDE x 521mm LONG x 203mm HIGH. TRIM: MOEN 87966 SINGLE HANDLE PULL DOWN KITCHEN FAUCET, CHROME PLATED, CENTER HOLE ONLY, ECASST CONSTRUCTION LEAD FREE, ECASST BRASS CONSTRUCTION, VOLUME CONTROL AND HOT WATER LIMIT STOP CARTRIDGE, 5.7LPM PRESSURE COMPENSATING LAMINAR FLOW OUTLET, 376mm, 13mm NPSM SUPPLY INLETS AND COUPLING NUT FOR FLEXIBLE RISER. TMM-1070 BELOW DECK MECHANICAL WATER MIXING VALVE, BRONZE BODY, TEMPERATURE ADJUSTING DIAL, 10mm INLETS AND OUTLET COMPRESSION FITTINGS, HIGH TEMPERATURE THERMOSTATIC LIMIT STOP, SHUT-OFF WITH AUTOMATIC RESET WHEN TEMPERATURE EXCEEDS 48.8°C. INTEGRAL CHECKS, OFFER TEMPERATURE RANGE FROM COLD THROUGH 46°C. TEE, ADAPTORS AND FLEX. COPPER TUBING TO SUIT INSTALLATION. TEMPERED WATER TO HOT SIDE OF FAUCET. FAUCET SUPPLIES, CHROME PLATED FINISH ALL METAL CONSTRUCTION, LIGHT DUTY RESIDENTIAL ANGLE STOPS, ESCUTCHEONS AND FLEXIBLE METAL RISERS, LOW LEAD. P-TRAP, ADJUSTABLE ALL METAL CONSTRUCTION, 38mm SIZE, WITH CLEAN OUT, AND ESCUTCHEON. 1.
TUB	AMERICAN STANDARD ROULEVARD OR EQUIVALENT, THERMOSTATIC & PRESSURE BALANCING SHOWER VALVE SET, 2530.102/2530.202 HIGH GLOSS ACRYLIC CAPPED ABS WITH FIBERGLASS REINFORCEMENT CONSTRUCTION RECTANGULAR, RECESSED ALCOVE INSTALLATION, INTEGRAL CURVED APRON, INTEGRAL LUMBAR SUPPORT, INTEGRAL TILING FLANGE ON 3 SIDES, FOR BELOW FLOOR ROUGH INSTALLATION. DIMENSION: INSTALLATION DIMENSIONS OF 1524mm x 762 mm x 470mm. WATER DEPTH TO OVERFLOW: 286mm. CAPACITY: 170L. WEIGHT WITH WATER: 197.3 kg. SHIPPING WEIGHT: 27.2kg. COMPLIANCE: IANPMOM (CUPC). 1583.470.002 UNIVERSAL BATH DRAIN, BRASS TUBING AND ROTARY POP-ASSEMBLY, POLISH CHROME FINISH, 38mm CAST BRASS FITTINGS. MOEN 82115 C/W WAVE, SHOWERHEAD, TUB STOP, ARM AND FLANGE. WITH MOEN 2590 M-PACT POSI TEMP 1/2"cc CONNECTION INCLUDES PRESSURE BALANCING VALVE, CHROME PLATED FINISH, FLOOR RATE IS LIMITED TO 6.6L/MIN, 179mm dDA TRIM FACE PLATE, ON/OFF 270° ARC TEMPERATURE CONTROL. 102mm DI SHOWER HEAD FACE. 1.
NHFB	JAY R. SMITH #5519 BOX TYPE WALL HYDRANT, 1/4 TURN NON-D RIP, 1.9mm NONE FREEZE WALL TYPE AUTOMATIC DRAINING HYDRANT, AND STAINLESS STEEL WITH FULL 180DEG. COVER OPENING BOX, DUAL CHECK VALVE, SELF DRAINING INTEGRAL VACUUM BREAKER, OPERATING T-HANDLE KEYS, WHEEL HANDLE, STAINLESS STEEL BOX FACE. 1.
FD-1	WATTS FD-100-C-EG EPOXY COATED CAST IRON FLOOR DRAIN, ANCHOR FLANGE, REVERSIBLE MEMBRANE, REVERSIBLE FLASHING CLAMP WITH PRIMARY AND SECONDARY WEEPHOLES, 127mm DIAMETER NICKEL BRONZE, ADJUSTABLE ROUND STRAINER 102mmx229mm OVAL NICKEL BRONZE FUNNEL, TRAP PRIMER CONNECTION WITH PLUG, NO HUB OUTLET. 1.

MECHANICAL DRAWING LEGEND			
DESIGNATION	SERVICE	DESIGNATION	SERVICE
-----	DOMESTIC COLD WATER	-----	NHFB
-----	DOMESTIC HOT WATER	-----	DIFFUSER/GRILLE TYPE SIZE (MM)
-----	DOMESTIC HOT WATER RETURN	-----	AIR FLOW (L/S)
--- v ---	VENT	FD	FLOOR / ROOF DRAIN
--- SAN ---	SANITARY ABOVE GRADE	⊖	THERMOSTAT
--- SAN ---	SANITARY BELOW GRADE	GM	GAS METER
--- WT ---	WEEPING TILE ABOVE GRADE	WM	WATER METER
--- WT ---	WEEPING TILE BELOW GRADE	⊙	PUMP
--- MPC ---	MEDIUM PRESSURE GAS	FD	FIRE DAMPER
--- G ---	NATURAL GAS	FD	BALANCING DAMPER
--- HWS ---	HOT WATER SUPPLY	---	TYPE
---	---	---	CAPACITY (KW)
--- HWR ---	HOT WATER RETURN	---	LENGTH (MM)
---	CLEANOUT ABOVE / BELOW GRADE	PR - XX	PLUMBING RISER
---	BALANCING VALVE	SR - XX	SANITARY RISER
---	PRESSURE REDUCING VALVE	HR - XX	HEATING RISER
---	CONTROL VALVE	S/A	SUPPLY RISER
---	ISOLATION VALVE	R/A	RETURN AIR
---	PLUG VALVE	E/A	EXHAUST AIR
---	PIPE ELBOW UP	T/A	TRANSFER AIR
---	PIPE ELBOW DOWN	FE	FIRE EXTINGUISHER
---	PIPE ELBOW UP	UNION	UNION
---	CLEAN OUT (IN FLOOR)	---	PRESSURE RELIEF VALVE
---	CHECK VALVE	CO	CLEAN OUT (IN LINE)
---	---	BFP	BACKFLOW PREVENTER

DRAWING NOTATION	
SYMBOL	DESCRIPTION
⬡	CONSTRUCTION KEY NOTE NUMBER 1
EF-1	EQUIPMENT DESIGNATION (IE. EXHAUST FAN NUMBER 1)

