

MECHANICAL LEGEND

GENERAL

SYMBOL	DESCRIPTION
	HEAVY LINE INDICATES NEW WORK
	LIGHT LINE INDICATES EXISTING WORK
	KEY NOTE CALLOUT
	REVISION CALLOUT
	PLUMBING FIXTURE OR DRAIN CALLOUT, SEE SCHEDULE
	POINT OF CONNECTION
	EQUIPMENT CALLOUT, SEE SCHEDULE
	DIFFUSER OR GRILLE CALLOUT, SEE SCHEDULE
	VOLUME FLOW RATE (LPS), NONE INDICATED FOR TRANSFER GRILLE
	DIFFUSER OR GRILLE TYPE
	INDICATES DIAMETER OR ROUND
	DETAIL CALLOUT:
	INDICATES DETAIL NUMBER
	SHEET NUMBER WHERE DETAIL IS DRAWN
	SECTION CALLOUT:
	INDICATES DIRECTION OF CUTTING PLANE
	INDICATES SECTION LETTER
	SHEET NUMBER WHERE SECTION IS DRAWN

VENTILATION

DOUBLE	SINGLE	DESCRIPTION
		DUCT: 1ST SIZE (mm) INDICATES SIDE SHOWN, 2ND SIZE (mm) INDICATES SIDE NOT SHOWN, INSIDE FREE AREA
		SUPPLY AIR DUCT - TURNING UP OR TOWARD
		RETURN OR EXHAUST AIR DUCT - TURNING UP OR TOWARD
		ROUND DUCT - TURNING UP OR TOWARD
		TRANSITION
		TRANSITION - ROUND TO RECTANGULAR
		TURNING VANES IN RECTANGULAR DUCT TURN
		90° ELBOW (RADIUS = 1.5 x ELBOW DIAMETER)
		RECTANGULAR BRANCH CONNECTION WITH 45° TAPER
		90° CONICAL TEE FITTING
		FIRE DAMPER (PROVIDE ACCESS)
		VOLUME DAMPER
		SUPPLY GRILLE (SIDEWALL)
		RETURN/EXHAUST GRILLE (SIDEWALL)
		CEILING DIFFUSER
		RETURN GRILLE WITH DUCT TURNING DOWN

EQUIPMENT

SYMBOL	DESCRIPTION
	THERMOSTAT OR TEMPERATURE SENSOR

PLUMBING AND PIPING

SYMBOL	DESCRIPTION
	COLD WATER
	HOT WATER
	SOIL OR WASTE - ABOVE GROUND
	VENT
	SOIL OR WASTE - BELOW GROUND
	VENT - BELOW GROUND
	GAS PIPING
	BALL VALVE
	CHECK VALVE
	PIPE TURNING UP OR TOWARD
	PIPE TURNING DOWN OR AWAY
	PLUG AND/OR CAP
	FLUSH CLEANOUT
	FLOOR DRAIN

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR ARCHITECTURAL
ARCH	ARCHITECTURAL
BHP	BRAKE HORSEPOWER
BOL	BOTTOM OF LOUVER
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CELSIUS
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CLG	CEILING/COOLING CLEANOUT
CO	CONNECTION CONTINUATION
CONN	CONNECTION
CONT	CONTINUATION
CW	COLD WATER
DEG	DEGREE
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EXHAUST AIR/EACH
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEC	ELECTRICAL
ENT	ENTERING
EXH	EXHAUST
EXIST (E)	EXISTING
FCO	FLUSH CLEANOUT
FD	FLOOR DRAIN/FIRE DAMPER
FLR	FLOOR
FPM	FEET PER MINUTE
GAL	GALLON
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HD	HEAD
HP	HORSEPOWER
HR	HOUR
HTG	HEATING
HW	HOT WATER
IA	INTAKE AIR
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LRA	LOCKED ROTOR AMPERAGE
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BRITISH THERMAL UNIT PER HOUR (THOUSAND)
MCA	MINIMUM CURRENT AMPACITY
MECH	MECHANICAL
MIN	MINIMUM/MINUTE
mm	MILLIMETER
NC	NOISE CRITERIA
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN/NUMBER
NOM	NOMINAL
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PD	PRESSURE DROP
POC	POINT OF CONNECTION
PRESS	PRESSURE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH (GAUGE)
RA	RETURN AIR
RLA	RATED LOAD AMPS
RM	ROOM
RO	RETURN OPENING
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SF	SUPPLY FAN
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION
SS	STAINLESS STEEL
SP	STATIC PRESSURE
SPEC	SPECIFICATION
TBD	TO BE DETERMINED
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VENT/VOLTS
VTR	VENT THROUGH ROOF
W	WASTE/WATT
WC	WATER COLUMN/CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT

GENERAL NOTES

- THE MECHANICAL SYSTEM SHALL CONSIST OF ALL WORK SHOWN ON DRAWINGS, DIAGRAMS AND AS DESCRIBED IN SPECIFICATIONS.
- INSTALL ALL MECHANICAL WORK AS HIGH AS POSSIBLE, TIGHT TO STRUCTURE ABOVE.
- THE MECHANICAL PLANS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONSTRUCTION DETAILS.
- ITEMS NOTED "TYPICAL" OR "TYP" ON ANY SHEET APPLY TO THAT PARTICULAR SHEET.
- COORDINATE WITH SPECIFICATIONS. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE STRINGENT SHALL APPLY.
- PROVIDE ELECTRICAL CODE MINIMUM HORIZONTAL AND VERTICAL WORKING CLEARANCES FOR ALL ELECTRICAL PANELS AND EQUIPMENT. OFFSET MECHANICAL WORK AS REQUIRED.
- COORDINATE ALL MECHANICAL WORK WITH THAT OF OTHER TRADES TO INSURE PROPER AND ADEQUATE INTERFACE OF THEIR WORK WITH THE WORK OF THIS CONTRACTOR. PROVIDE COORDINATED SHOP DRAWINGS PRIOR TO FABRICATION AND INSTALLATION.
- MECHANICAL EQUIPMENT SHALL NOT BE USED FOR TEMPORARY HEAT DURING CONSTRUCTION.
- VERIFY EXISTING CONDITIONS BEFORE COMMENCING ANY WORK ON AN EXISTING MECHANICAL SYSTEM.
- ALL DUCTWORK SIZES SHOWN ARE INSIDE CLEAR. ADD APPROPRIATE DIMENSION FOR INSULATION OR DUCT LINER TO OBTAIN "TOTAL" DUCT SIZE.
- PROVIDE TRANSITIONS AS REQUIRED TO CONNECT DUCTWORK TO FURNACES, HEAT RECOVERY UNITS AND OTHER MECHANICAL EQUIPMENT.
- PROVIDE DIFFUSER AND GRILLE FRAMES COMPATIBLE WITH ARCHITECTURAL CEILING TYPE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPE.
- COORDINATE EXACT LOCATIONS OF ALL ROOM THERMOSTATS AND/OR ROOM TEMPERATURE SENSORS WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE A VOLUME DAMPER FOR EACH SUPPLY, RETURN AND EXHAUST OPENING AND IN BRANCHES WHERE THREE OR MORE OPENINGS ARE ASSOCIATED WITH THE BRANCH AND ELSEWHERE AS NOTED ON THE DRAWINGS OR SPECIFICATIONS.
- PROVIDE 25mm THICK DUCT LINER IN ALL RECTANGULAR SUPPLY AIR DUCTWORK.
- PROVIDE 25mm THICK DUCT LINER IN ALL RECTANGULAR RETURN AIR DUCTWORK.
- COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES WITH CASEWORK AND ARCHITECTURAL DRAWINGS.
- MAKE WASTE, WATER AND GAS CONNECTIONS TO KITCHEN EQUIPMENT SUPPLIED BY KITCHEN EQUIPMENT SUPPLIER.
- MAKE DUCT CONNECTIONS TO KITCHEN EXHAUST HOODS SUPPLIED BY KITCHEN EQUIPMENT SUPPLIER.


DRAWING INDEX

M0.1	LEGEND, ABBREVIATIONS, GENERAL NOTES AND DRAWING INDEX
M0.2	SPECIFICATIONS
M0.3	SPECIFICATIONS
M0.4	EQUIPMENT SCHEDULES
M1.0	SITE PLAN
M1.1	FOUNDATION PLAN - PLUMBING
M1.2	FLOOR PLAN - RAINWATER AND VENT PIPING
M1.3	FLOOR PLAN - DOMESTIC WATER AND GAS PIPING
M2.1	FLOOR PLAN - HVAC
M2.2	ROOF PLAN - MECHANICAL
M3.1	DIAGRAM
M3.2	DETAILS

No.	Description	Date
1	ISSUED TO PROJECT ARCHITECT	15.10.30

- ### REVISIONS
- THIS DRAWING IS THE PROPERTY OF A&W FOOD SERVICES OF CANADA INC., & MAY NOT BE USED IN WHOLE OR IN PART FOR ANY PROJECT OTHER THAN THAT DESIGNATED HEREON.
 - DO NOT SCALE DRAWINGS - WRITTEN DIMENSIONS TAKE PRECEDENCE.
 - CONTRACTOR TO VERIFY JOB SITE DIMENSIONS & CONDITIONS, REPORT ANY & ALL DISCREPANCIES TO THE OWNER & A&W IMMEDIATELY BEFORE PROCEEDING WITH WORK.
 - ALL WORK TO CONFORM TO THE LATEST LOCAL BUILDING CODES, BY-LAWS, & NFPA REQUIREMENTS, IN ADDITION TO OTHER REGULATIONS HAVING JURISDICTION.

Consultant



Association of Professional Engineers & Geoscientists of Saskatchewan
Zbaraschuk Engineering Company
 Number 2003
 Permission to Consult held by:
 Discipline: MECH Sk. Reg. No. 16000 Signature: [Signature]

ZBARASCHUK ENGINEERING CO.
 DENNIS W. ZBARASCHUK, P. ENG
 RR4 SITE 12 BOX 4
 PRINCE ALBERT, SK S6V 5R2
 (306) 929-4923 dwzbor@soskstel.net

PRAKASH
PRAKASH CONSULTING LTD
STRUCTURAL ENGINEERS
 #4 - 210 15TH STREET EAST
 PRINCE ALBERT, SK S6V 1G2
 T 306 922 2101 F 306 763 0212

RNF
VENTURES LTD.

811 CENTRAL AVENUE Ph: (306) 763-3700
 PRINCE ALBERT, SK Ph: (306) 763-4700
 S6V 4Z2



A&W FOOD SERVICES OF CANADA INC.

Project:
A&W RESTAURANT
 "2015 GFMGF CONCEPT DESIGN"
 11401 RAILWAY AVE,
 NORTH BATTLEFORD, SK

Title:
LEGEND, ABBREV
AND DRAWING INDEX

Date Created	FEBRUARY 2016	Prototype Version	2178L (2015 V1.1)
Project Number	14064	Page Number	
Drawn By	RMS	Scale	AS NOTED
Consultant			
			M0.1