

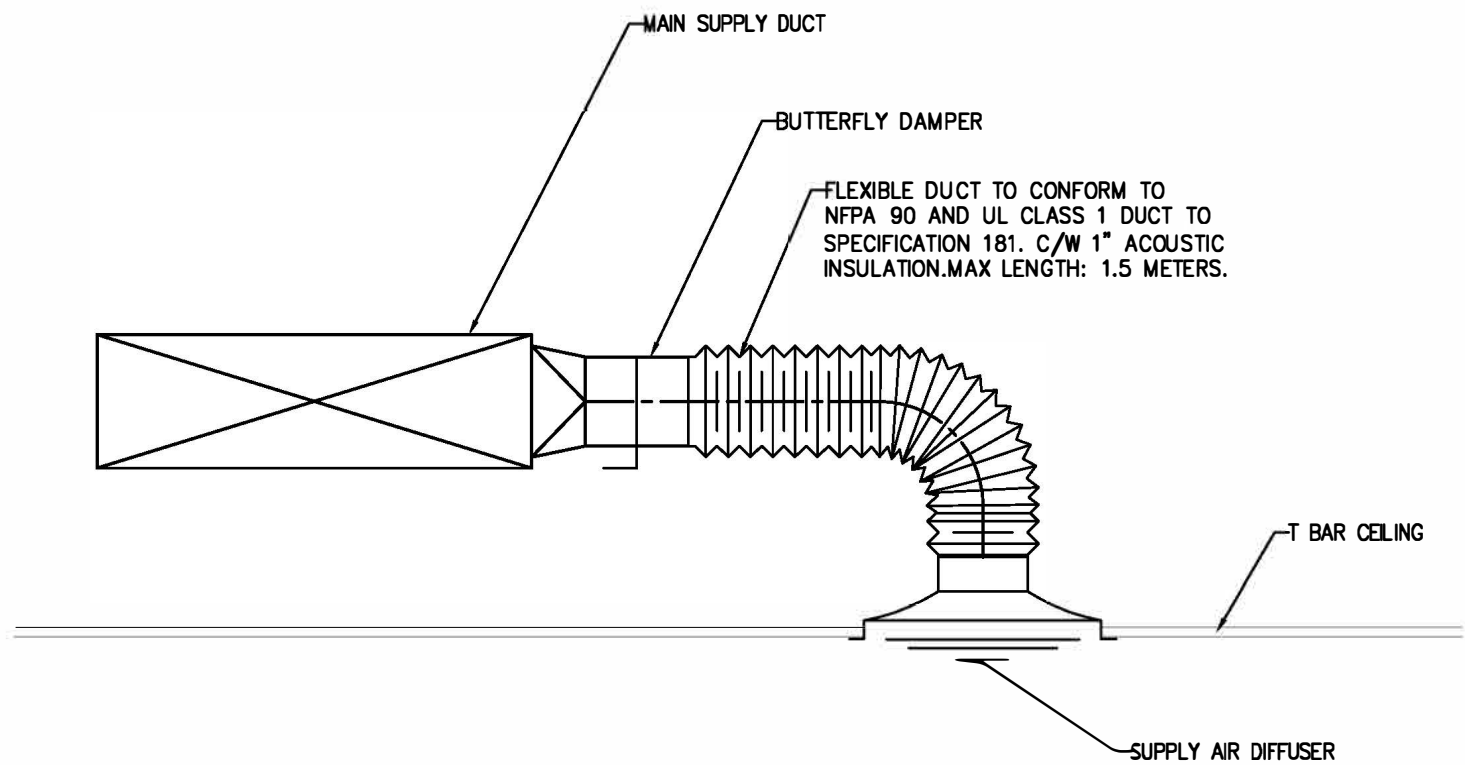


Association of Professional Engineers & Geoscientists  
of Saskatchewan

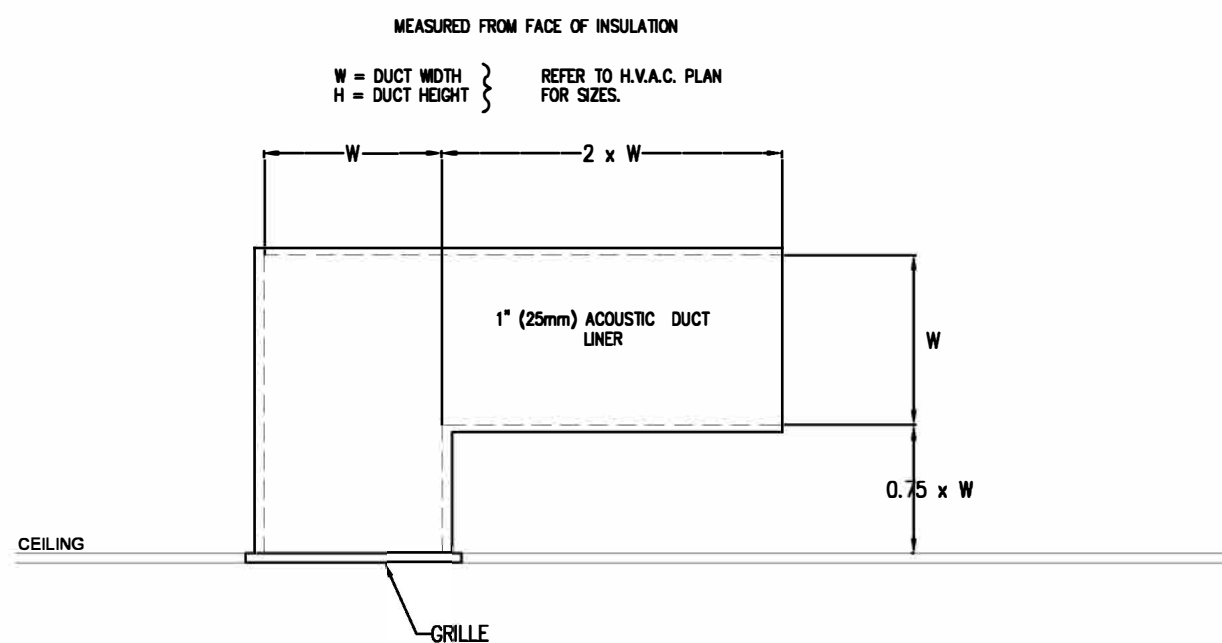
CERTIFICATE OF AUTHORIZATION  
HDK Consulting Incorporated  
Number 30340

Permission to Consult held by:  
Discipline Sk. Reg. No. Signature

MECHANICAL 30273



1 CEILING DIFFUSER DETAIL  
M2 NTS



2 TRANSFER DUCT DETAIL  
M2 NTS

VAV TERMINAL UNIT SCHEDULE

TAG	AREA SERVED	UNIT SIZE	AIRFLOW RATE				ATTENUATOR		S.P.D.		
			MAXIMUM		MINIMUM		LENGTH		OUTLET NC	AT MAX. (Pa)	A.F.R. (in.WC)
			(L/s)	(CFM)	(L/s)	(CFM)	(mm)	(in.)			
VAV-1	RM 511	150	40	84	19	40	914	36	25	25	0.10

NOTES:

1. MAINTAIN SIMILAR SEQUENCE OF OPERATIONS AS EXISITNG VAV BOXES. INTEGRATE CONTROL WITH PERIMETER HEATING.
2. PROVIDE NEW CONTROLLER AND INTEGRATE WITH EXISITNG BUILDING AUTOMATION SYSTEM.

DIFFUSER AND GRILLE SCHEDULE (Based on E. H. PRICE)

TAG	MODEL	ACCESSORES	REMARKS
S-1	SQUARE CONE DIFFUSER 600 X600	-	REFER TO DRAWING FOR NECK SIZE
R-1	EGG CRATE RETURN GRILLE	-	REFER TO DRAWING FOR FACE SIZE

ACCESSORIES:

NOTES: 1. PROVIDE BORDER AND FRAME STYLE TO SUIT SURFACE BEING INSTALLED ON.

APPROVED MANUFACTURERS: EH PRICE, TITUS, NAILOR

PLUMBING FIXTURE SCHEDULE

TAG		Fixture	Specification
SK-1	Barrier-Free Design	Countertop Mount Sink	DOUBLE BOWL COUNTERTOP MOUNT SINK, 1 HOLE, 794 MM (31-1/4") WIDE X 521 MM (20-1/2") LONG X 127 MM (5") HIGH DEEP. SPILLWAY, COUNTER MOUNTED, BACKLEDGE, GRADE 18-10 20 GA. (0.9 MM) TYPE 302 STAINLESS STEEL, SELF-RIMMING, SATIN FINISH RIM AND BOWLS. MOUNTING KIT PROVIDED, FULLY UNDERCOATED TO REDUCE CONDENSATION AND RESONANCE, FACTORY APPLIED RIM SEAL, 3-1/2" (89 MM) CRUMB CUP WASTE ASSEMBLY WITH 1-1/2" (38 MM) TAILPIECE. SINGLE HANDLE FAUCET, CHROME PLATED, CENTER HOLE ONLY, LEAD FREE (EQUAL OR LESS THAN 0.25%) BRASS CONSTRUCTION, VOLUME CONTROL AND HOT WATER LIMIT STOP CARTRIDGE, 5.7 LPM (1.5 GPM) PRESSURE COMPENSATING LAMINAR FLOW (NON-AERATING) OUTLET, 241 MM (9-1/2") PROJECTION RIGID CAST BRASS SPOUT, SINGLE METAL LEVER HANDLE. BELOW DECK MECHANICAL WATER MIXING VALVE, BRONZE BODY, TEMPERATURE ADJUSTING DIAL, 10 MM (3/8") INLETS AND OUTLET COMPRESSION FITTINGS, HIGH TEMPERATURE THERMOSTATIC LIMIT STOP, SHUT-OFF WITH AUTOMATIC RESET WHEN TEMPERATURE EXCEEDS 120 °F (48.8 °C), INTEGRAL CHECKS, OFFER TEMPERATURE RANGE FROM FULL COLD THROUGH 46 °C (114.8 °F), PROVIDE FAUCET SUPPLIES, CHROME PLATED FINISH ALL METAL CONSTRUCTION. LIGHT DUTY RESIDENTIAL ANGLE STOPS, ESCUTCHEONS AND FLEXIBLE METAL RISERS, LOW LEAD. PROVIDE P-TRAP, ADJUSTABLE ALL METAL CONSTRUCTION, 38 MM (1-1/2") SIZE, AND ESCUTCHEON. SANITARY COVERING VANDAL-RESISTANT, FLEXIBLE SEAMLESS MOULDED CLOSED-CELL PVC RESIN, FORMULATED WITH ANTI-MICROBIAL ADDITIVE TO LIMIT THE GROWTH OF FUNGUS AND BACTERIA. TO EXPOSED PIPING (TO PROTECT AGAINST HEAT/CONTUSIONS) AS PER LOCAL CODES.
LAV-1	Barrier-Free Design	Wall hung Basin	WALL HUNG BASIN, 3 HOLES, 102 MM CENTER, 540 MM X 520 MM X 165 MM, VITREOUS CHINA, FOR CARRIER WITH CONCEALED ARMS, REAR OVERFLOW, RECESSED SELF-DRAINING FAUCET LEDGE, SEMI-PEDESTAL P-TRAP COVER. SOLAR POWERED ELECTRONIC 'NO TOUCH' FAUCET, CHROME PLATED FINISH, 102 MM CENTERSET, DIE CAST BODY, INTEGRAL ABOVE DECK WATER SUPPLY SHUT OFF, 'LOW' PROFILE SPOUT TO MINIMIZE THE POTENTIAL FOR VANDALISM, 149 MM (5-7/8") PROJECTION REACH, ABOVE ACCESS TO KEY COMPONENTS INCLUDING SOLENOID VALVE, WATER SHUT-OFF, BATTERY CANOPY, ACTIVE IR SENSING, 1.9 LPM MULTI-LAMINAR, ALKALINE BATTERY PROVIDED, BOX MOUNT, SOLAR PANEL CROWN. BELOW DECK MECHANICAL WATER MIXING VALVE, BRONZE BODY, TEMPERATURE ADJUSTING DIAL, 10 MM 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 FULL COLD THROUGH 46 °C. OPEN GRID DRAIN, CAST BRASS ONE PIECE TOP, 17 GA. TUBULAR 32 MM TAILPIECE. FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, COMMERCIAL DUTY 1/4 TURN BALL VALVE ANGLE STOPS, 13 MM I.D. INLET X 127 MM HORIZONTAL EXTENSION TUBES, COMBINATION V.P. LOOSE KEY HANDLES, ESCUTCHEON AND STAINLESS STEEL BRAIDED FLEXIBLE RISERS. P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 32 MM (1-1/4") SIZE. SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND. BASIN CARRIER, CONCEALED ARMS, WALL FLANGES TO ATTACH TO BACKING PLATE SECURED IN WALL WITH LOCKING DEVICE AND LEVELLING SCREWS, HEAVY GAUGE STEEL UPRIGHTS WITH INTEGRAL WELDED FEET. PROVIDE "SLIM" CARRIER TO SUIT EXISTING WALL.

FAN SCHEDULE

TAG	MANUFACTURER	TYPE	MODEL	RPM	AIR FLOW RATE		E.S.P.		MOTOR		SCNES	ACCESSORIES
					(L/s)	(CFM)	(Pa)	(in.WC)	(W)	(HP)		
EF-1	GREENHECK	CE	SP-A200	900	94	200	62	0.25	53	FRAC	2.0	IG, SH
TF-1	GREENHECK	I	CSP-A410	1,000	113	240	62	0.25	116	FRAC	2.0	SC, SH
TF-2	GREENHECK	I	CSP-A410	1,000	113	240	62	0.25	116	FRAC	2.0	TS, SH
TF-3	GREENHECK	I	CSP-A410	1,000	113	240	62	0.25	116	FRAC	2.0	SC, SH
TF-4	GREENHECK	I	CSP-A410	1,000	113	240	62	0.25	116	FRAC	2.0	SC, SH
TF-5	GREENHECK	I	CSP-A410	1,000	113	240	62	0.25	116	FRAC	2.0	SC, SH

FAN TYPES:

C CENTRIFUGAL  
TA TUBE AXIAL  
R ROOF  
W WALL  
I IN-LINE  
MF MIXED FLOW  
CE CEILING EXHAUST  
P PROPELLER  
CU CENTRIFUGAL UP BLAST  
CF CEILING FAN

ABBREVIATIONS:

BG BELT GUARD  
AS ADJUSTABLE SHEAVES  
SC SOLID STATE SPEED CONTROL  
IG INLET GRILLE  
BD BACKDRAFT DAMPER  
F FILTER  
E EPOXY COATING  
IH INLET HOOD  
TS THERMOSTAT  
MT MANUAL RESET TIMER  
NSW NON-SPARKING WHEEL  
SH SPRING HANGERS  
VP VIBRATION PADS  
SM SPRING MOUNT  
WC WALL CAP  
DS DISCONNECT SWITCH  
MDW MOTION DETECTOR, WALL MTD.  
SD SCROLL DRAIN  
FC FACTORY CURB  
BS BIRDSCREEN  
MC MOUNTING COLLAR  
WH WEATHERPROOF HOUSING  
RC ROOF CAP  
AD ACCESS DOOR  
GN GOOSENECK

NOTES:

1. INSTALL ALL UNITS ON VIBRATION ISOLATORS  
APPROVED MANUFACTURERS: GREENHECK, LOREN COOK, TWIN CITIES

DO NOT SCALE DRAWINGS

5		
4		
3		
2	ISSUED FOR CONSTRUCTION	NOV 04-16
1	99% CONSTRUCTION DRAWING SUBMISSION	OCT 05-16
0	66% CONSTRUCTION DRAWING SUBMISSION	AUG 16-16
Revision/Revision	Description/Description	Date/Date

Project title/Titre du projet

101 22nd Street East  
Saskatoon, Saskatchewan

VETERANS AFFAIRS CANADA  
FIT-UP (VAC) - PHASE 2

Approved by/Approuvé par

DH

Designed by/Concept par

DH/RR

Drawn by/Dessiné par

IS

PWGSC Project Manager/Administrateur de Projets TPSOC

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PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie, TPSOC

Client/client

VAC

Drawing title/Titre du dessin

Mechanical Schedules  
and Details

Project No./No. du projet

R.080397.010

Sheet/Feuille

M2  
OF 2

Revision no./  
La Révision  
no.

1

