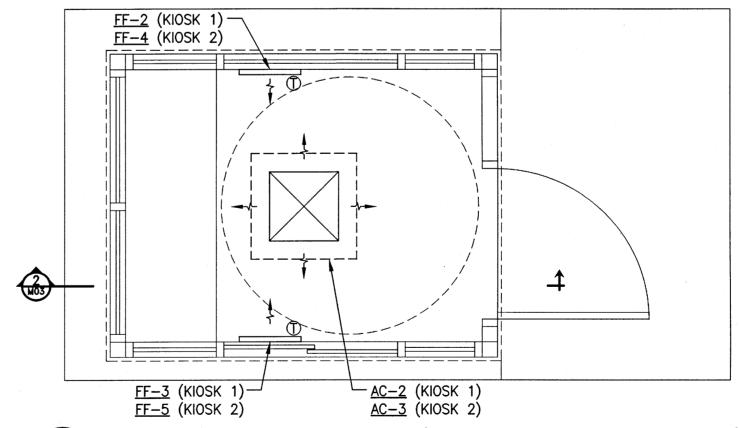


## **GENERAL NOTES:**

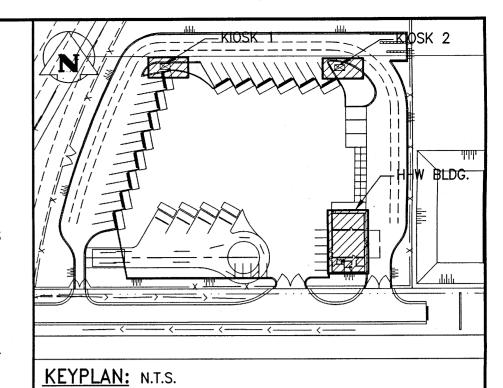
- 1. PERFORM WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- 2. EQUIPMENT LOCATIONS AND PIPE ROUTING INDICATED ON THE DRAWINGS IS APPROXIMATE ONLY. CONFIRM IN THE FIELD. REROUTE PIPING AS REQUIRED TO ELIMINATE FIELD INTERFERENCES, WITH BUILDING STRUCTURES, ELECTRICAL, ETC.. CONFIRM CHANGES WITH CONTRACT ADMINISTRATOR. CO-ORDINATE WORK WITH ALL SUBTRADES. WHERE DIMENSIONS ARE INDICATED FOR PIPING EQUIPMENT SIZES, ETC. THESE ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING EQUIPMENT AND COMMENCING INSTALLATION WITHOUT EXTRA CHARGES TO THE PROJECT. THE CONTRACTOR IS RESPONSIBLE TO ENSURE ALL EQUIPMENT, DUCTWORK AND PIPING FITS IN THE SPACE AVAILABLE AND TO MAINTAIN THE GENERAL DESIGN INTENT FOR THE
- 3. PROVIDE ALL WALL PENETRATIONS. PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE FIRE SEALED.
- 4. CONFORM TO SMACNA STANDARDS FOR SUPPLY AND INSTALLATION OF DUCTWORK. SEAL ALL DUCT JOINTS.
- 5. MOUNT THERMOSTATS AT 1200mm ABOVE FINISHED FLOOR.

GRILLE SCHEDULE								
JIVIELE GOITEDOLE								
GRILLE	No.	DESCRIPTION	MAKE	MODEL				
G1		SQUARE CONE DIFFUSER	PRICE	100/300x300/SCD/31/3C/B12				
G2		EGG CRATE GRILLE	PRICE	150x100/80/TB/B12				
G3		DOUBLE DEFLECTION SUPPLY GRILLE	PRICE	300x200/520D/SDF/S/B12				
G4		LOUVERED FACE RETURN GRILLE	PRICE	300x200/510ZD/SDF/S/B12				
G5		TRANSFER AIR GRILLE	PRICE	300x300/STG1/BF/B15				

	LOU	/RE	SCHEDULE	
LOUVRE No.	SIZE		MAKE/MODEL	
L1	750×750		PRICE/DE439	
L2	300x300		PRICE/DE439	
L3	500x500		PRICE/DE439	



KIOSK - FLOOR PLAN (TYP. OF KIOSK 1 & 2) SCALE: 1:25



## **LEGEND:**

--- NEW EQUIPMENT/DUCTWORK

E/A EXHAUST AIR

O/A OUTSIDE AIR <u>UH-</u># UNIT HEATER

PTAC—# PACKAGED TERMINAL AIR CONDITIONER

BH-# BASEBOARD HEATER AC-# AIR CONDITIONING UNIT

<u>CU-</u># CONDENSING UNIT <u>FF-</u># FORCE FLOW HEATER

SF-# SUPPLY FAN

EF-# EXHAUST FAN

<u>DH</u># DUCT HEATER

ERV-# ENERGY RECOVERY VENTILATOR AIRFLOW DIRECTION

EXTERNAL DUCT INSULATION

REFRIGERANT PIPING

BALANCE DAMPER

BACKDRAFT DAMPER

THERMOSTAT

MD-# MOTORIZED DAMPER

SUPPLY AIR

CARBON MONOXIDE SENSOR

(NO<sub>2</sub>) NITROGEN DIOXIDE SENSOR

EXHAUST AIR

GRILLE NO.

-x- ------NECK SIZE

- L/s \_\_AIR FLOW RATE L1 LOUVER NO.

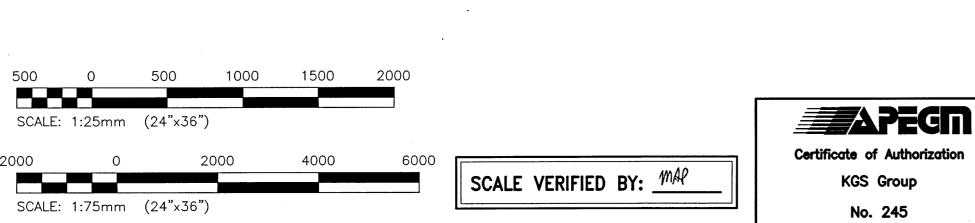
\_\_x\_\_\_LOUVER SIZE

- L/s AIR FLOW RATE

## **KEYNOTES:**

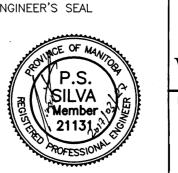
- INSTALL NEW WALL MOUNTED EXHAUST FAN (EF-2). INSTALL U/S OF FAN AT 3150mm ABOVE FLOOR.
- (12) INSTALL GRILLES AT 45° DOWN FROM HORIZONTAL. (TYP.)
- HANG UNIT HEATERS FROM CEILING WITH THREADED RODS.

  HANG AT 2400mm FROM FLOOR TO U/S OF HEATER. (TYP.)
- INSTALL CONDENSING UNIT (CU-1). PROVIDE WALL BRACKET SUPPORTS. SUPPLY AND INSTALL INSULATED REFRIGERANT PIPING ACCORDING TO MANUFACTURERS
- INSTALLATION INSTRUCTIONS. INSTALL NEW ENERGY RECOVERY VENTILATOR (ERV-1) IN CEILING SPACE. RUN CONDENSATE DRAIN LINES TO
- FLOOR DRAIN IN HWT ROOM. (ERV-1) SHALL BE SUPPLIED BY THE CITY. 6 INSTALL PACKAGED TERMINAL AIR CONDITIONING UNITS (PTAC-1 & PTAC-2) BELOW WINDOW. MOUNT U/S OF
- UNIT AT 350mm ABOVE FLOOR. (TYP.) MOUNT INDOOR AIR CONDITIONING UNIT ON WALL IN I.T. CLOSET. RUN CONDENSATE LINE TO FLOOR DRAIN IN
- HWT ROOM. 8 INSTALL NEW ELECTRIC BASEBOARD HEATERS (BH-1 TO BH-3) C/W LINE VOLTAGE THERMOSTAT (THERMOSTATS SUPPLIED BY MECHANICAL, INSTALLED BY ELECTRICAL).
- 9 INSTALL NEW ELECTRIC FORCE FLOW HEATER (FF-1) C/W LINE VOLTAGE THERMOSTAT. (THERMOSTATS SUPPLIED BY MECHANICAL, INSTALLED BY ELECTRICAL).
- MAINTAIN 500mm DISTANCE FROM DUCT HEATER (DH-2) FROM MOTORIZED DAMPER (MD-3) AND SUPPLY FAN
- RUN U/S OF NEW SUPPLY AIR DUCT HEADER AT 3150mm ABOVE FLOOR.



LOCATION APPROVED UNDERGROUND STRUCTURE SUPV. U/G STRUCTURES DATE COMMITTÉE LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

ES	B.M. ELEV.				KGS GROUP CONSULTING ENGINEERS			ENGINEER'S SEAL  P.S.  P.S.
					DESIGNED BY	MAP	CHECKED BY	SILVA Member 21131
TION OR		· · · · · · · · · · · · · · · · · · ·		-	DRAWN BY	EAG	APPROVED BY	POFESSIONAL COMPANY
/IX		***************************************			HOR. SCALE:	AS NOTED	RELEASED FOR	
	0	ISSUED FOR TENDER	17/03/14	B	VERTICAL:	AS NOTED	CONSTRUCTION:	CONSULTANT DRAWING NO.
-	NO.	REVISIONS	DATE	BY	DATE	16/08/17	DATE	16-0107-010



Winnipeg PROJECT TITLE

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

**4R WINNIPEG DEPOT** EAST WINNIPEG COMMUNITY RESOURCE RECOVERY CENTRE HHW BUILDING

HVAC PLAN

23 COMPUTER FILE NAME 16-0107-010 CITY DRAWING NUMBER M02