PASSIVE SUB-SLAB DEPRESSURIZATION RADON CONTROL SYSTEM FOR NEW CONSTRUCTION

NOTES:
1. ALL CONCRETE SLABS THAT COME IN CONTACT WITH THE GROUND SHALL BE LAID OVER A GAS PERMEABLE MATERIAL MADE UP OF EITHER A MINIMUM 4" THICK UNIFORM LAYER OF CLEAN AGGREGATE, OR A MINIMUM 4" THICK UNIFORM LAYER OF SAND, OVERLAIN BY A LAYER OR STRIPS OF MANUFACTURED MATTING DESIGNED TO ALLOW THE LATERAL FLOW OF SOIL GASES.

2. ALL CONCRETE FLOOR SLABS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL BUILDING CODES. ADDITIONAL REF: AMERICAN CONCRETE INSTITUTE PUBLICATIONS, "ACI 302.1R" & "ACI 332R", OR THE POST TENSIONING INSTITUTE MANUAL, "DESIGN AND CONSTRUCTION OF POST-TENSIONED SLABS ON GROUND".

3. ALL OPENINGS, GAPS AND JOINTS IN FLOOR AND WALL ASSEMBLIES IN CONTACT WITH SOIL OR GAPS AROUND PIPES, TOILETS, BATHTUBS OR DRAINS PENETRATING THESE ASSEMBLIES SHALL BE FILLED OR CLOSED WITH MATERIALS THAT PROVIDE A PERMANENT AIR-TIGHT SEAL. SEAL LARGE OPENINGS WITH NON-SHRINK MORTAR, GROUTS OR EXPANDING FOAM MATERIALS AND SMALLER GAPS WITH AN ELASTOMERIC JOINT SEALANT, AS DEFINED IN ASTM C920-87.

4. VENT PIPES SHALL BE INSTALLED SO THAT ANY RAINWATER OR CONDENSATION DRAINS DOWNWARD INTO THE GROUND BELOW THE SLAB OR GAS-RETARDER MEMBRANE.

5. CIRCUITS SHOULD BE A MINIMUM 15 AMP, 115 VOLT.

ELECTRICAL JUNCTION BOX FOR FUTURE INSTALLATION OF VENT FAN; NOTE 5.
ELECTRICAL JUNCTION BOX FOR FUTURE INSTALLATION OF WARNING DEVICE; NOTE 5.
3"-4" DIA. VENT PIPE (PVC OR EQUIVALENT)
SLAB; NOTE 2
MIN. 4" THICK LAYER OF GAS PERMEABLE MATERIAL; NOTE 1
PVC T-FITTING (OR EQUIVALENT) TO SUPPORT VENT PIPE
PASSIVE RADON CONTROL SYSTEM IN CRAWL SPACE FOR NEW CONSTRUCTION

NOTES:
1. INSTALL A LENGTH OF 3" OR 4" DIAMETER PERFORATED DRAIN TILE HORIZONTALLY BENEATH THE SHEETING AND CONNECT TO THE "T" FITTING WITH THE VERTICAL STANDPIPE THROUGH THE SOIL-GAS-RETARDER MEMBRANE. THIS HORIZONTAL PIPE SHOULD NORMALLY BE PLACED PARALLEL TO THE LONG DIMENSION OF THE HOUSE AND SHOULD EXTEND NO CLOSER THAN 6 FEET TO THE FOUNDATION WALL.

2. VENTILATE CRAWLSPACES IN CONFORMANCE WITH LOCAL CODES; VENTS SHALL BE OPEN TO THE EXTERIOR AND BE OF NONCLOSABLE DESIGN.

3. CIRCUITS SHOULD BE A MINIMUM 15 AMP, 115 VOLT.
ADDITIONAL COMPONENTS REQUIRED FOR ACTIVATION
OF PASSIVE SUB-SLAB DEPRESSURIZATION OR
CRAWLSPACE RADON CONTROL SYSTEM

NOTES:
1. INSTALL THE VENT FAN IN THE VERTICAL RUN OF THE VENT PIPE.
   THE SIZE AND AIR MOVEMENT CAPACITY OF THE VENT FAN SHALL
   BE SUFFICIENT TO CREATE AND MAINTAIN A PRESSURE FIELD
   BELOW THE SLAB OR CRAWLSPACE MEMBRANE THAT IS LOWER
   THAN THE PRESSURE ABOVE THE SLAB OR MEMBRANE.

2. ALL POSITIVELY PRESSURED PORTIONS OF THE VENT PIPE AND
   FAN SHALL BE LOCATED OUTSIDE THE HABITABLE SPACE OF
   THE BUILDING.

3. PROVIDE A VISIBLE OR AUDIBLE WARNING SYSTEM TO
   ALERT THE BUILDING OCCUPANT IF THERE IS A LOSS
   OF PRESSURE OR AIR FLOW IN THE VENT PIPE.