

PROVIDE AND INSTALL HIGH-CAPACITY RADON SUMPS SPACED AS SUCH EACH SUMP TO SERVE A MAXIMUM FLOOR AREA OF 250 m²

PROVIDE VENTILATION OPENINGS THROUGHOUT DWARF WALLS TO ENSURE RADON GAS CIRCULATION AND PROPER ROUTING TO THE RADON SUMP

COORDINATE WITH STRUCTURAL ENGINEER FOR OPENINGS AT FOUNDATION LEVE

Where internal dwarf walls or rising walls divide the sub-floor area, provide continuous ventilation to ensure gas circulation. Install 110mm diameter pipe sleeves or "pigeon-hole" openings (min. free area of 12,500 mm² per linear metre) through all internal walls. These must be located within the hardcore layer to allow unimpeded suction toward the sumps.

The radon outlet (exhaust) terminal to be located a minimum of 3 metres (10 feet) away from any window, door, or air intake.
If the discharge is at low level, the outlet should be at least 1.5 metres from any openings.

The sump should be surrounded by a minimum of 300mm of clean, 25-50mm granular material (no fines) to ensure maximum air permeability.

Following completion and occupancy, the school must be tested for radon. If levels exceed 200 Bq/m³, an inline axial fan must be fitted to the exhaust pipework to activate the system.

LOCATE RADON SUMP EXHAUST TERMINALS AWAY FROM EXTERNAL PLAY AND GATHERING AREAS (INCLUDING SENSORY GARDENS AND SOFT PLAY AREAS); WHEN TERMINATING NEAR THESE AREAS, LOCATE THE EXHAUST WITHIN GREEN OR GRAVELED STRIPS/AREAS (COORDINATE WITH LANDSCAPING) PROVIDE A CLEAR DISTANCE OF 3m FROM ANY REGULARLY OCCUPIED EXTERNAL AREA.

REFER TO STRUCTURAL ENGINEER'S DRAWINGS FOR FOUNDATION DETAILS
REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR VENTILATION OPENING
AND DUCTING, CABLING & PIPING LOCATION

Refer to **TGD-020 General Design Guidelines for Schools (Primary & Post Primary)** for recommendations.

 Under slab drainage pipe - 110mm
 Under slab drainage pipe - 40mm
 Pop ups - 110mm & 40mm

 Area of Coverage - 9m radius / max. 250 m²
 SUMP Radon Sump
 OUTLET Radon Sump outlet
 Radon Sump outlet
 Ø 110mm pipe

Note:
All foul drainage from WCs, WHBs, sinks, showers and any associated sanitary appliances to be discharged into the proposed or existing foulwater sewer system or combined sewer system. No foul water shall connect to the surface-water drainage system.

Read in conjunction with C&S drainage layout.
Provide inspection chambers/access chambers or rodding access as appropriate - at junctions, change of directions, change in gradient etc.

Underground branch connections shall generally be formed using swept junctions in the direction of flow. Square junctions and inaccessible changes of direction below floors to be avoided.

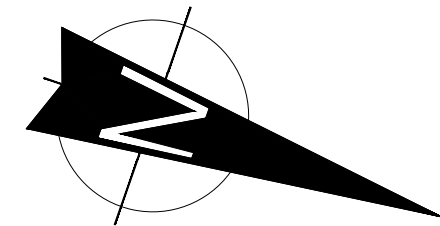
Inspection chambers to be located in accessible locations and not concealed beneath fixed furniture, sanitary fittings or permanent building elements.

Provide appropriate sleeves and seals where drainage pipes pass through walls or structural elements.

All drainage to be tested, inspected and demonstrated to be watertight and free flowing before concealment/completion.

Contractor to verify all drainage routes and levels on site
dimensions should not be scaled from this drawing.

Coordinate with C&S design. All C&S information to take precedence in relation to underground drainage/pipe sizes/gradients/levels connection details etc.



EXTERNAL
PLAY AREA

from ga

NOTE:
Position outlet 3m
away from the play area

DRAINAGE, POP UPS and RADON LAYOUT
1:100

*This drawing is copyright and may not be copied or altered without permission.
Use only figured dimensions. Do not scale this drawing.
The contractor is responsible for checking all dimensions on site prior to construction
The Architects are to be notified of any discrepancies prior to work
commencing.
Levels and contours, shown on drawings, are relative to local datum unless specified*

JOB NO. :		QUEEN OF ANGELS PRIMARY SCHOOL	
PROJECT :		Additional Accommodation	
ADDRESS :		Wedgewood,Sandyford, Dublin,16	
DRAWING :			
DRAINAGE, POP UPS and RADON LAYOUT			
JOB REF: 22518-TEN MC		SCALE: As Shown	DWG. NO. : 22518-TEN-505
DATE 07.08.2026	REV:		

