

**SECTION 00**  
SCALE 1:50

**FOUNDATIONS**  
 Refer to structural engineers drawings for foundation details. All foundations to be excavated to depths determined by site conditions & to a firm bearing strata and be inspected by the local building control officer prior to concrete being poured. IF ADVERSE CONDITIONS ARE ENCOUNTERED REFERENCE SHOULD BE MADE TO THE ENGINEER.

**PIPES UNDER BUILDING**  
 Pipework under building to be surrounded in granular fill, where pipes pass thru' walls. Wall to be beamed over with a lintel to give 50mm space around.

**SITE CLEARANCE**  
 All vegetable soil and dangerous or harmful substances to be removed from the site of the building and adjacent ground and disposed of in an approved manner

**RADON PROTECTION**  
 Where required, ground floor area is to be covered with an approved radon resistant membrane with all joints lapped and sealed. Radon membrane is to be sealed to wall dpc's and carried across cavities, all in accordance with details approved by building control

**DAMP PROOF MEMBRANE**  
 Damp proof membrane for floor shall consist of a continuous layer of at least 1200 gauge polythene sheet or other approved material. The damp proof and radon membranes may be combined as appropriate. Adjacent sheets to be lapped by min. 150mm and sealed with jointing tape in accordance with manufacturer's recommendations.

**DRAINAGE**  
 ALL U.P.V.C. Pipes to be laid in pea gravel to manufacturer's instruction and to have 450mm min. cover. All manholes to be constructed on min. 150mm concrete slab base using 215mm concrete block walls. Inside face of walls to be finished with 13mm sand/cement render left smooth with steel trowel finish. Bottom of manholes to be properly haunched at pipes.  
 All pipes to be 110mm dia. with min. fall of 1:40 for foul and 1:50 for storm. foul pipes to be 4660-1973 storm pipes to be 4514:1983

**MANHOLES/INSPECTION CHAMBERS:**  
 Cover and frames to inspection chambers to be capable of supporting appropriate vehicular loading where constructed in a location that may be subject to vehicular access.

**COVERS TO MANHOLES**  
 COVERS TO MANHOLES TO BE AS FOLLOWS:  
 LOCATION TYPE  
 PEDESTRIAN/LANDSCAPED AREAS A15  
 CAR PARKS/FOOTPATHS/PRIVATE DRIVES B125  
 PUBLIC ROADS/PARKING AREAS D400  
 AREAS SUBJECT TO HIGH WHEEL LOADS F900

**OIL STORAGE TANK**  
 Integally bonded plastic oil storage tank. Oil tank to be constructed in accordance with the recommendations of b799-5:1987 (steel) or d51100:1995 (medium density polyethylene).  
 NOTE: Oil tanks sited less than 1800mm from a building or 750mm from a boundary to be protected by a fire wall.  
 NOTE: The fuel pipework from the tank shall be resistant to the effects of fire and be fitted with a fire valve system where it enters the building (bs 5410:1997).  
 NOTE: Oil tank to be bonded to a capacity of 110% of its maximum capacity.  
 Oil tank to be placed on a 100mm (min) thick concrete support base, base to extend 300mm (min) beyond the external skin of the tank.  
 NOTE: Integally bonded oil storage tank to be used where pollution could occur ie within:  
 \* 10m of a watercourse  
 \* 50m of a well, borehole or spring  
 \* adjacent to open drain  
 \* loose fitting manhole cover

**WASTE CONTAINER STORAGE:**  
 Provide washable hard standing base having reasonable access and not less than 1.8x1.2m in size for storage of waste containers. Storage of waste containers should be such as not to be prejudicial to the health of the occupants of the building. Storage of waste containers should be reasonably accessible for use by people from the building and to the waste collection point.

**GROUND FLOOR CONSTRUCTION:**

Generally to be 75mm screed, reinforced throughout with lightweight gal. steel mesh, mesh to be overlapped a min. of 400mm all around, on vapour barrier on floor insulation, to be 75mm springvale platinum floorshield p1100 to provide a u-value 0.2w/m<sup>2</sup>k and shall be applied in accordance with supplier written instruction on visqueen 1200 gauge high performance vapour barrier in accordance with the relevant clauses of is 325:part 2:1995 and of bs cp 102:1973 code of practice for protection of buildings against water from the ground on 200mm pre cast concrete slab, to engineers detail.

300mm of 1200 gauge visqueen dpm to be jointed with two strips of self adhesive butyl tape in 150mm laps.  
 DPM to be bonded to thermoplastic polymer dpc at external walls with two strips of self adhesive butyl tape 200mm min laps.  
 dpc to be min. 150mm above finished ground level as shown, provide 300mm 1200 gauge visqueen membrane upstands where service pipes penetrate.

**CAVITY WALL CONSTRUCTION**  
 Provide 300mm wide cavity wall with 100mm blockwork/brickwork outer leaf, 100mm cavity and 100mm blockwork inner leaf. Cavity contains 75mm kingspan thermawall tw50' cavity board insulation with a 25mm air gap. Install proprietary stainless wall ties with clips at distance apart not exceeding 750mm horizontally & 450mm vertically. Where as near as practicable to any opening install a wall tie every 225mm vertically if the leaves are not connected by a bonded jamb. Wall ties should comply to bs 1243:1978. install vertical d.p.c's and 25mm hd kingspan kaaltherm insulation at all openings, all cavities to be closed at eaves and verges with 12mm 'superfix' board.

**WALL TIES:**  
 Provided at 750mm centres horizontally & 450mm centres vertically to maximum 100mm wide cavity. Provide additional ties spaced at 300mm maximum centres vertically to all openings, wall ties to be stainless steel

**PIPES PASSING THRU' WALLS**  
 All pipes which pass thru' compartment floors/walls to be fitted with hamron fire protection seals fitted to manufacturers written specification.

**STEELWORK**  
 Structural steelwork to receive treatment to achieve a min. of 1/2hr fire resistance by coating with hamron xpw intumescent coatings. All steel beams to be laid on reinforced concrete padstones - see engineers details. provide expanded metal lath to top of steel beams to provide stronger bond for blockwork.

Span	Length	Bearing	Depth	Courses	Reinforcing Bars		Links
					Bottom	Top	
600	900	150	150	2	1no T10		
900	1200	150	150	2	1no T10		
1200	1500	150	150	2	1no T12		
1500	1800	150	215	3	1no T12		
1800	2100	150	215	3	1no T12		
2100	2500	200	215	3	1no T12		
2400	2800	200	215	3	1no T16		R10 150c/c
2700	3100	200	215	3	1no T16	1no T12	R10 150c/c
3000	3400	200	300	3	1no T16	1no T16	R10 150c/c

All reinforcing bars to have 25mm min. cover to top & sides and 40mm min. cover to bottom.  
 All reinforcing bars to have hooked ends and to comply with bs 4449:1997 & bs 4466:1989.  
 Lintels for solid walls to be placed side by side for the full width of the wall. Inner lintels in cavity wall to have played face to outer leaf.  
 All concrete lintels to be constructed using min. c30 strength concrete.

ALL DIMENSIONS TO BE VERIFIED ON SITE BY THE MAIN CONTRACTOR PRIOR TO ORDERING CONCRETE LINTELS.

**SANITARY PIPEWORK**

Any soil ventilation pipe penetrating a compartment floor is to be fitted with a 1 hour intumescent collar in accordance with the suppliers instructions

**DOORS**

All new internal doors to have a min clear opening of 800mm.  
 All doors annotated on plans with '1/2hr' to be 1/2 hour fire rated door blanks  
 All manually operated doors shall be designed so that the force to open it need not exceed 30 newtons for the first 300 and 22.5 newtons thereafter.  
 Door furniture to be distinguishable through colour contrasting, from the door and easily manipulated by those with limited manual dexterity.  
 All doors on escape routes to have 'eod's' easy opening devices push bars required.  
 All fire doors to be fitted with self closing devices.  
 Door opening furniture to be aluminium finish or equivalent to reflect against door leaf on internal and external doors. door surround to be of dark timber stain to contrast against adjacent wall surface around it. Internal doors designed to be manually operated require an unobstructed space of not less than 300mm at the leading edge of the door.

**VISUAL CONTRAST**

Visual contrast by having a difference of 30 points or more in light reflectance value (Lv) to be achieved in all or any of the following as applicable:  
 - Nosing to steps v steps  
 - Handrail to steps v background against which it is seen  
 - Door opening furniture v door leaf (external & internal doors)  
 - Door surround v adjacent wall surface  
 - Internal door capable of being held open or not self closing, leading edge of door.  
 - Switch or control face plate v background against which it is seen.  
 - Sanitary fittings, grab rails and support rails v background against which they are seen

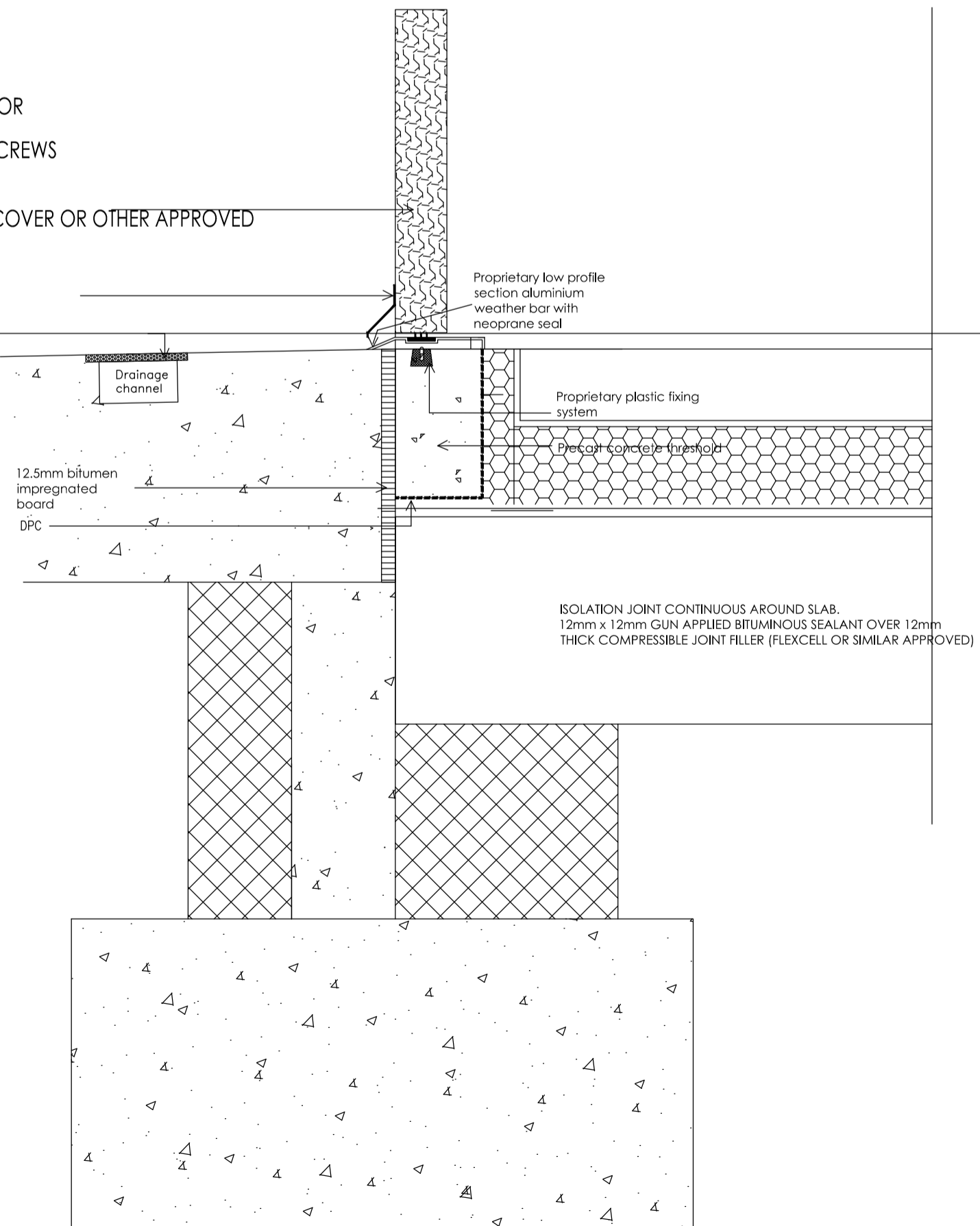
**CONSTRUCTION OF STEPS**

So a visually impaired person can appreciate the extent of the stair and identify individual treads, steps should have step nosings which are distinguishable through suitable permanent visual contrast. The width of this permanent visual contrast should be not less than 50 mm and not more than 60 mm to all treads and risers.

**EXTERNAL TIMBER DOOR**

**ALUMINIUM DRIP & SCREWS**

**PERFORATED METAL COVER OR OTHER APPROVED MATERIAL**



**FOUNDATION CONSTRUCTION**

(SEE STRUCT. ENG. DRGS & DETAILS)  
 Depth & size to be determined on site when ground conditions are known. All sizes to be to the satisfaction of the Local Building Control Officer.

All new foundations to be taken down to a firm load bearing stratum and have a min. 450mm cover to avoid frost damage.

Any steps in foundations to be max. 300mm thk. with min. 600mm lap.

All cavities to walls to be filled with weak conc. cavity fill to min. 150mm below dpc level or to ground level.

**PRELIMINARY PENDING BUILDING CONTROL APPROVAL. ALL WORKS UNDERTAKEN PRIOR TO FULL BUILDING CONTROL APPROVAL ARE SOLELY AT CLIENTS RISK**

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**PROJECT:**  
**NEW INDOOR FACILITY @ BALLYCRAN**

**Project No:** 18-22  
**Drawing Number:** WO1.4 PROPOSED SECTION

**Client:**  
**BALLYCRAN**

**Drawn by/ Check By:** Date: Scale:  
 OCT 18 1:50 @ A1