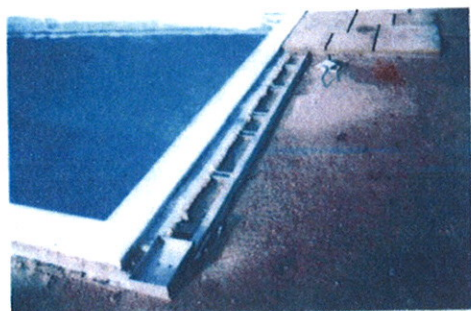
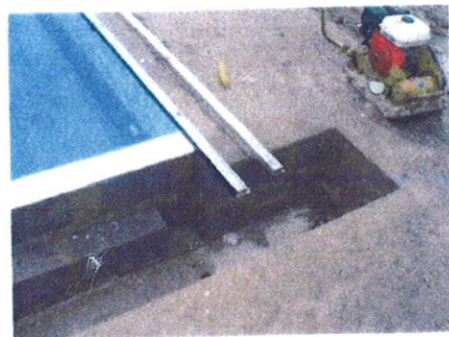
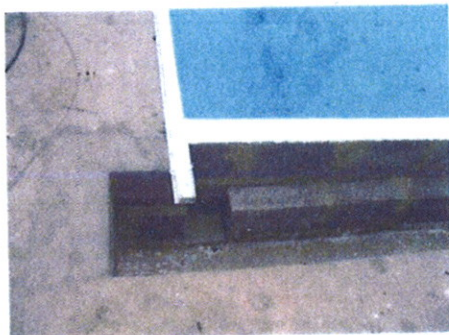
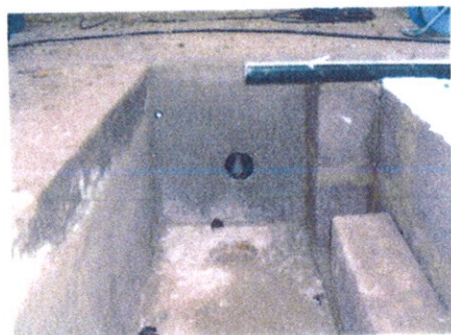


DRIGLIDE INSTALLATION MANUAL



DRIGLIDE

DESCRIPTION

The DRIGLIDE is an under coping automatic swimming pool safety cover designed for fitting to NEW RECTANGULAR POOLS, whilst under construction.

POOL TYPES

CONCRETE POOLS :- the track is usually fitted at top of skimmer level, the track is 41 mm deep so you may want to adjust the depth of freeboard / pool to account for this.

LINER POOLS :-the track is fitted on top of the liner lock.

The method of pool construction does not matter, the DRIGLIDE can be fitted to LINER, PANEL, BLOCK, CONCRETE, GUNITE pools etc.

FINISHES

The DRIGLIDE is designed to allow any kind of finish. e.g. standard copings, 9 or 12 inch, regular paving, or tiled finishes.

Rigidity of the Housing Covers is achieved by DRIPOOL "BEAM ASSISTED CANTILEVERS".

These unique Housing Covers enable the Freeboard of the pool to be kept as low as possible, since the Covers are kept within the 41 mm depth of the track.

Housing Covers are virtually invisible.

HOUSING COVERS are SUPPLIED and FITTED by DRIPOOL (included in the price)

BENEFITS

The DRIGLIDE system overcomes the traditional problems of Under Copping covers, eg Flimsy housing covers, jamming, wear, front beams, rainwater removal , housing floods etc

DRIPOOL's superior winding technology means that the DRIGLIDE always comes on and off the pool straight, it is not sensitive to the pool water level, as with conventional systems, consequently auto top-ups and overflows are not necessary for correct operation.

The housing covers are rigidly cantilevered from the back wall and further strengthened for diving etc by a system of HYDRAULIC JACKS all working automatically. Your customer will not be aware of this, but the result is a very rigid housing, that even heavyweights can dive off. This device also operates a seal to prevent pool water flooding into the housing, even when the pool cover is jumped upon, or otherwise abused.

The DRIGLIDE is powered by Hydraulics situated in the plant room, connected to the drive, by hydraulic hoses.

DESIGN CONSIDERATIONS

See Page 9

The housing should be situated at the plantroom end of the pool in order to minimise the length of Hydraulic Lines, Alternatively the Hydraulic Power Pack could be sited remotely from the plant room in it's own weather proof container.

The housing is best sited at the opposite end of the pool to any steps.

Although the housing is sealed, drainage is necessary, either by main drainage, or pump. SOAKAWAYS ARE NOT ACCEPTABLE. A pump system can be supplied by DRIPPOOL.

VENTILATION is required, so run an additional 4" pipe from the LEFT hand end of the housing to a suitably disguised standpipe. On indoor pools vent air con air through the housing.

SKIMMERS are best sited on the LEFT hand side of the pool, if they are to be fitted on the right they will require extended throats so that the lid is at least 300mm from the pool to avoid the Mouse Track. DRIPPOOL can supply stainless steel skimmer lid hatches which will become invisible when paved within. DECK fittings, LADDERS, SKIMMERS etc must be fitted along the length of the pool, since the cover system utilises both ends.

We do not recommend the DRIGLIDE to be used with Salt sanitization systems, as the slightest scratch on the aluminium track during installation will cause severe corrosion.

Do Not lay copings directly on top of the tracks, leave minimum of 5mm gap as it will be necessary to grout between the tracks and coping, to seal the joint. The cantilever panels have a 3mm flatness tolerance, so the 5mm grout allows for this. The track/coping and cantilever/coping joints must be grouted/sealed, with a waterproof medium.

For pool buildings with tiled floors, in many cases it is better to lay one course of 20mm tiles on top of the track, this gives the cantilevers some depth and looks much better.

DO NOT BE TEMPTED to lay the copings along the length of the pool before the cantilever panels are fitted, this almost every time leads to big problems with levels. After the survey to establish the finished size of the pool and hence the width of the cantilevers, there is a 2 week delay whilst the cantilevers are made...so schedule a 2 week break in construction to take an advantage of this.

ELECTRICAL supply...

1 x 16amp 240 volt switched spur (1.5hp 1.1 kw) USE MOTOR RATED C Circuit breaker.

DO NOT REMOVE THE PROTECTIVE TAPE from the track.

WATERPROOF ADMIX MUST BE USED IN ALL CONSTRUCTION Particularly when laying and grouting coping stones. The lime in untreated mortar will bleed out and attack the track and stain the cover.

Stainless Steel Access Hatches are provided, they are designed for 35mm thick paving. Other thicknesses can be manufactured at extra cost.

UNDERWATER FEATURES such as steps and roman ends, could considerably decrease the life of your cover, as where they break surface, they concentrate the flexing of the cover, with resultant "fatigue".

INSTALLATION SUMMARY

Read these notes in conjunction with the attached diagrams

METHOD

LINER POOLS

In general terms the pool is built up to liner lock. Top of Liner Lock is the "1st OVERSITE LEVEL" .

OTHER POOLS

The Track is 41 mm deep so you may want to deduct this from the height of the pool if the freeboard becomes too high.

The pool is built up to the top of the SKIMMERS, this level then becomes the "1st Oversight Level".

ALL POOLS

The TRACK FIXING DETAILS are shown on PAGE 13

1st OVERSITE LEVEL

The "Housing" and "Far End" details are constructed, the track is then laid. At this point DRIPPOOL survey the pool to establish cover and cantilever size for manufacture, and after 2 weeks fit the equipment, "Housing" and "Far End" cantilevers.

The level now produced by the Top of the track and cantilevers becomes the "2nd Oversight Level" onto which you lay the coping and finishes of your choice.

DO NOT REMOVE THE PROTECTIVE TAPE

When all the construction work is finished DRIPPOOL Engineers fit the cover and commission the system. On the pre-arranged date as per your Acceptance form.

INSTALLATION INSTRUCTIONS

1 st OVERSITE

*PAGE 9 the 1 st OVERSITE PLAN shows LEFT, RIGHT, BACK and FRONT, "HOUSING END" and "FAR END", so we all know what we're talking about !
This plan shows the general layout .*

LINER POOLS

*Build pool up to liner lock, fit liner lock, screed to top of liner lock. This is the 1st Oversight Level.
(see TRACK FIXING DETAIL.... PAGE 13)*

OTHER POOLS

The track is 41 mm high, so you may want to adjust the freeboard to accommodate this extra height. A gap of at least 5 mm should be left above the track to allow for grouting between track and coping. For tiled surrounds it is best to lay a course of small tiles on top of the track. Under normal conditions the track is fitted at the top of skimmer level, this is the 1st Oversight Level (see TRACK FIXING DETAILPAGE 13)

HOUSING CONSTRUCTIONPAGE 10

Waterproof Admix must be used in all construction to avoid lime in untreated mortar attacking the track and staining the cover

*Construct as shown on PAGES 10, 11. Finished surfaces should be smooth, flat and level.
Housing construction can be block or cast.*

It is up to you to determine the best method, to ensure that the integrity of the pool wall is maintained.

Blocks should be laid even and true and pointed using SBR admix in the mortar to aid plasticity and waterproofing. Concrete should be 30 N/ mm²

*Build the housing up to the 1st Oversight Level, the concrete slab at the back of the housing should be 150 mm deep with at least 100 mm above any re-inforcement , it must start from the inside edge of the housing and extend at least 350 mm. Do not lay concrete bases at back of housing, and far end, until height of pool is known. These bases must be laid to the correct height, in one hit. The cantilevers are bolted to this slab so **IT IS IMPORTANT TO FOLLOW THE SPECIFICATION**, it must be finished smooth, flat and level. PAGE 10. Screed can be used to achieve the final sizing and levelling but no deeper than 10 mm.*

Seal Walls and Floor of Housing with a proprietary concrete sealant.

THE FAR END PAGE 11

The concrete slab at the FAR END is the same as the housing slab. Do not forget to fit the drains.

DON'T FORGET 4" dia Soil pipe or similar to plant room. Only use lazy bends, no 90 deg bends. FEED ROPE through the pipe as it is laid.

DON'T FORGET the 4" dia VENT pipe at the LEFT hand end of the pit.

DON'T forget the drain or pump, (see PAGE 10 & 11) . SOAK-AWAYS ARE NOT ACCEPTABLE

TRACK LAYING.... PAGE 12

ALWAYS USE WATERPROOF ADMIX IN MORTAR

The track sections are **NUMBERED** on the **RIGHT**, and **LETTERED** on the **LEFT**, starting at the housing, to aid assembly i.e. end 2 to 2, end B to B

Lay the track as shown on page 9 using the fixings and holes provided.

The track must be fixed to solid material as per **PAGE 13**

Bed the track to the pool using an adhesive mastic eg **SIKAFLEX 11FC, SONOLASTIC ULTRA, ARDUFLEX 5000, ROTABOND....PAGE 13**

The **TRACK** sections pin together in a similar fashion to Toy train sets.

Adjacent track sections should butt together without gaps. Do not get cement in gaps.

Remove dust and loose material from top of pool.

Start at the "**FAR END**" by positioning the **END TRACK ASSEMBLIES** as shown on **PAGE 12**, ie 500 mm beyond the pool, and work back to the housing. The two tracks must be parallel, with the fixing lip facing away from the pool. Any excess track should be left to protrude into the housing. The joint between the track and the pool must be sealed or grouted. When permanently jointed, cover the joints with the piece of tape 100mm long stuck at the ends of the track.

The **CROSS TRACK** and **MOUSE TRACK** can now be fitted in the same manner.

The lip on the track always faces away from the pool.

HOUSING END....PAGE 10

Infill with concrete or screed ,the area bounded by and outside the Heavy Line, so that the level around the top of the housing is all at 1 st Oversite Level.

The top of the pool end walls, must be tiled and grouted as shown on **PAGES 10 & 12**, slope the surface towards the pool. The finished level should be at the bottom of the track.

FAR END PAGE 11

Tile and grout the remaining area between the tracks as shown on **PAGES 12 & 14**.

The pool is now ready for surveying for final sizing of cover and cantilevers.

After approximately 2 weeks **DRIPPOOL Engineers** will fit the mechanism, and housing covers. ie 1st **VISIT**

When the covers have been fitted, the site can be raised to the "**2nd OVERSITE LEVEL**" **PAGE 13**. Concrete over the cantilever arms, at both ends, and around the hatch frames to lock them in position. The Track **MUST** be backfilled with concrete/screed to lock it in position, and bring the level to 2nd Oversight.

The coping and finishes can now be completed.

DO NOT REMOVE THE PROTECTIVE TAPE FROM THE TRACK

Once completed it is time for **DRIPPOOL's "2nd VISIT"** to fit and commission the cover. (As per the pre-arranged date on the Acceptance form).

PAVING

GIVE THIS PAGE TO THE PAVIOR

Always use SBR / Waterproof admix in all mortar / cement to prevent the lime bleeding on the finished cover and track.

TRACK

It is important that the track becomes part of the structure of the pool.

To this end the void created between the 1st oversite and the 2nd oversite, at the back of the track, must be filled with concrete, so it fills the gaps, to key the track to the pool structure, prior to coping and paving.

THE CANTILEVERS are rarely completely flat, due to the method of manufacture, the flatness tolerance is 3 mm, for this reason it is necessary to have a minimum gap between the track / cantilevers and the coping, of 5mm, to allow for unevenness. If this gap is not left it may be very difficult to maintain level across the cantilevers.

Since the cantilevers are made of steel, they will flex slightly. If finishes are to be fixed directly to the cantilevers, it will be necessary to use a flexible bonding agent i.e. Mastic, Silicone, Flexible Tile adhesive etc. for bonding.

The paving adds stiffness to the toughness of the cantilevers, forming a composite structure.

The cantilever arms, and the void between must be filled with concrete before laying the paving. This locks everything together.

If mortar is to be used, bed the coping with a 4:1 or stronger mix + SBR or PVA. Thicker layers will produce a stiffer result. The mortar will need to "stick" as well as bed the coping.

POINTING. Always use a flexible grout, or mastic / silicone, particularly at the corners and back of the housing, where some differential movement may occur.

HATCHES

In order that the hatches become almost invisible, they are made from thin stainless steel. Because the hatches are thin, they are flexible until paved.

DO NOT REMOVE THE HATCHES FROM THE FRAMES FOR PAVING, or they will distort.. When the hatches are paved, they become a solid paving stone, re-enforced by stainless steel.

CAUTION THESE HATCHES CAN BE SHARP UNTIL PAVED.

When our engineers leave site these hatches are fitted correctly. The hatches are tapered to aid removal, when cutting pavings, cut at an angle to accommodate the tray angle.

Lay concrete underneath hatch frames to support frames and raise level to oversite.

Paint PVA / SBR around the inside of the tray to aid bonding, lay paving on a wettish mix of 5: 1 mortar + admix. Fidget the stone until the mortar works up the edges. There must be no cavities under the stone. All cavities around the stone must be filled with mortar.

The combination of Paving and Hatch when bonded together provides a lightweight, stiff, almost invisible hatch.

For best results, as far as invisibility is concerned, start your paving from the hatches, and work outwards, so that the hatch edges are natural joints in the paving, rather than un-natural cuts.

FAQ's

Footprint for hydraulics in plant room 600mm x 600mm x 900mm high.

Power requirements 1 x 16amp switched spur (1.5 hp 1.1 Kw) use MOTOR RATED C TYPE Circuit Breaker.

Can I move the conduits/service pipes ? NO the installation is a tight fit and requires everything to be in the correct position.

Can I lay the copings down the length of the pool, while you are getting the cantilevers made ? NO the cantilevers have a flatness tolerance of 3mm so the copings have to be laid on the cantilevers first to establish a level. If the copings are laid along the length first it usually ends in problems with levels.

CHECKLIST

Do not lay concrete bases at back of housing, and far end, until height of pool is known. These bases must be laid to the correct height, in one hit. The cantilevers are bolted to these bases so the concrete must be absolutely right.

The top surface of the pool end walls must be tiled so that the finished height is at the bottom of the track.

A drain will be required in the housing. SOAK-AWAYS ARE NOT ACCEPTABLE. DRIPPOOL can supply a pump system.

The housing will require ventilation. Fit a 4 inch pipe in the left end wall, the right hand end has a 4 inch conduit for the Hydraulics to the plant room, this can therefore provide through ventilation.

The base of the housing should be float finished concrete SLOPEING TO THE DRAIN at the left hand end.

Seal base and sides of housing with proprietary concrete sealant.

The track must be grouted/bonded/sealed to the pool structure both above and below.

The Track MUST be back filled with concrete/screed to lock it in position, and raise the level to 2nd Oversite.

The cantilevers are made with a 3 mm tolerance in their flatness, for this reason it is necessary to leave at least 5 mm gap between the track and coping and cantilever and coping to allow for irregularities in level. THIS GAP MUST BE GROUTED / MASTICED / SEALED

Always lay copings across the cantilevers first to establish level.

Do not be tempted to lay the copings along the length of the pool before the cantilevers are fitted, this invariably ends up with big problems with levels.

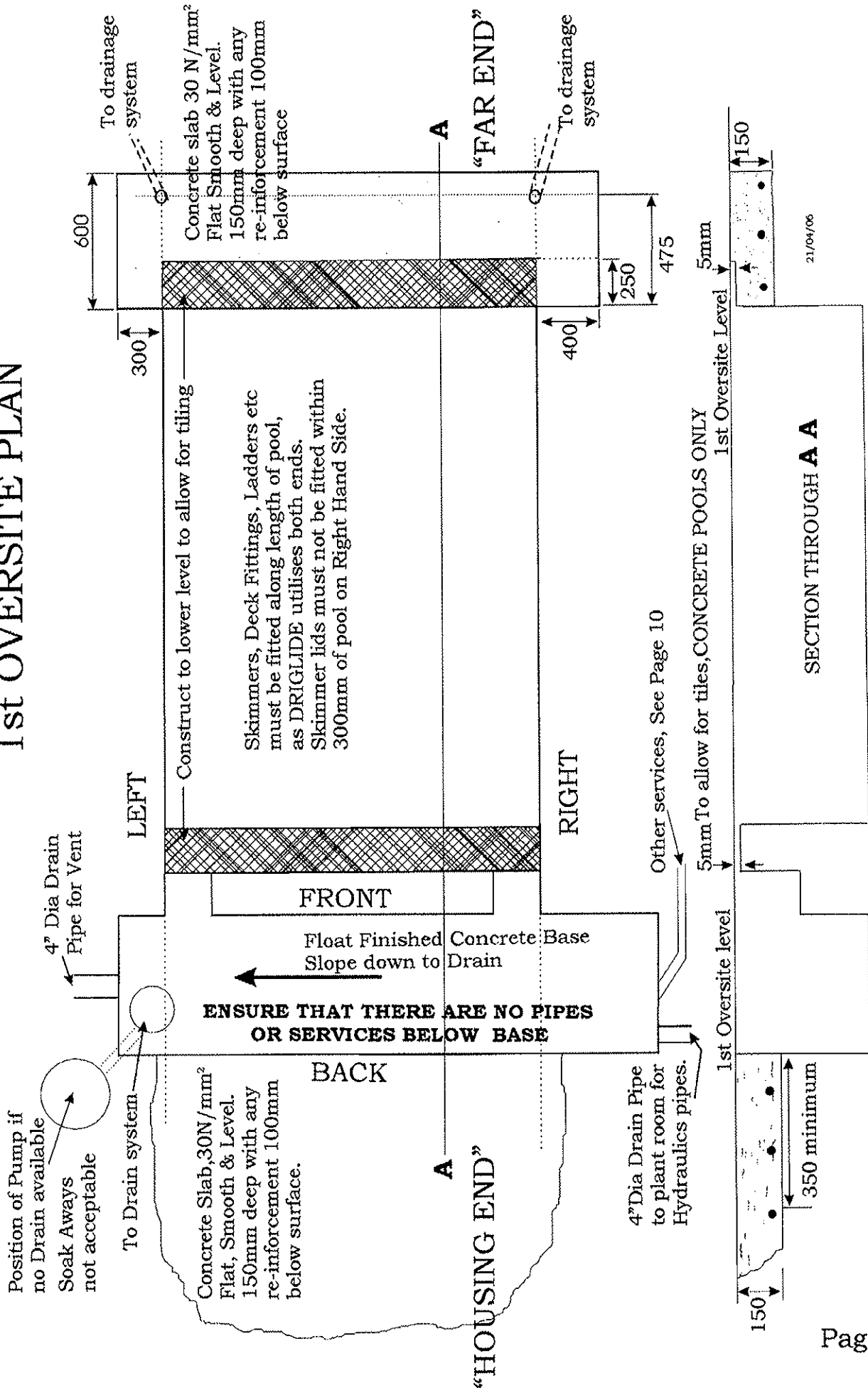
Do not remove the proctive tape from the track.

SKIMMERS and other DECK FITTINGS must be fitted along the length of the pool, since the DRIGLIDE utilises both ends of the pool. If skimmers are to be fitted along the right hand length of the pool they will need extended throats so that the lids are fitted at least 300mm from the waterline.

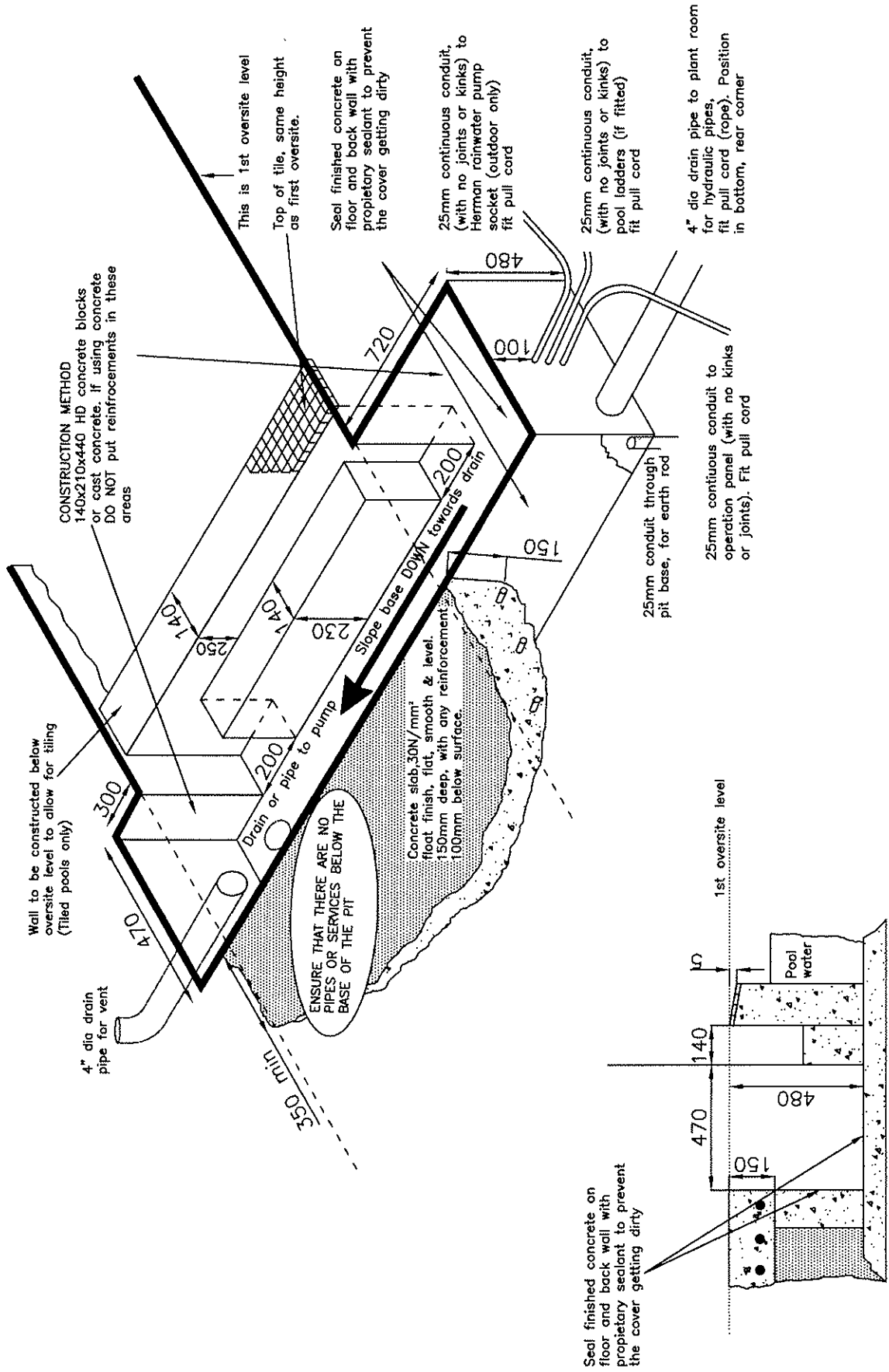
Any LADDERS must be fitted along the length of the pool, they must either be undercover ladders, or DRIPPOOL interlocked ladder hinges, 1.5 in Dia only

ALWAYS USE WATERPROOF ADMIX

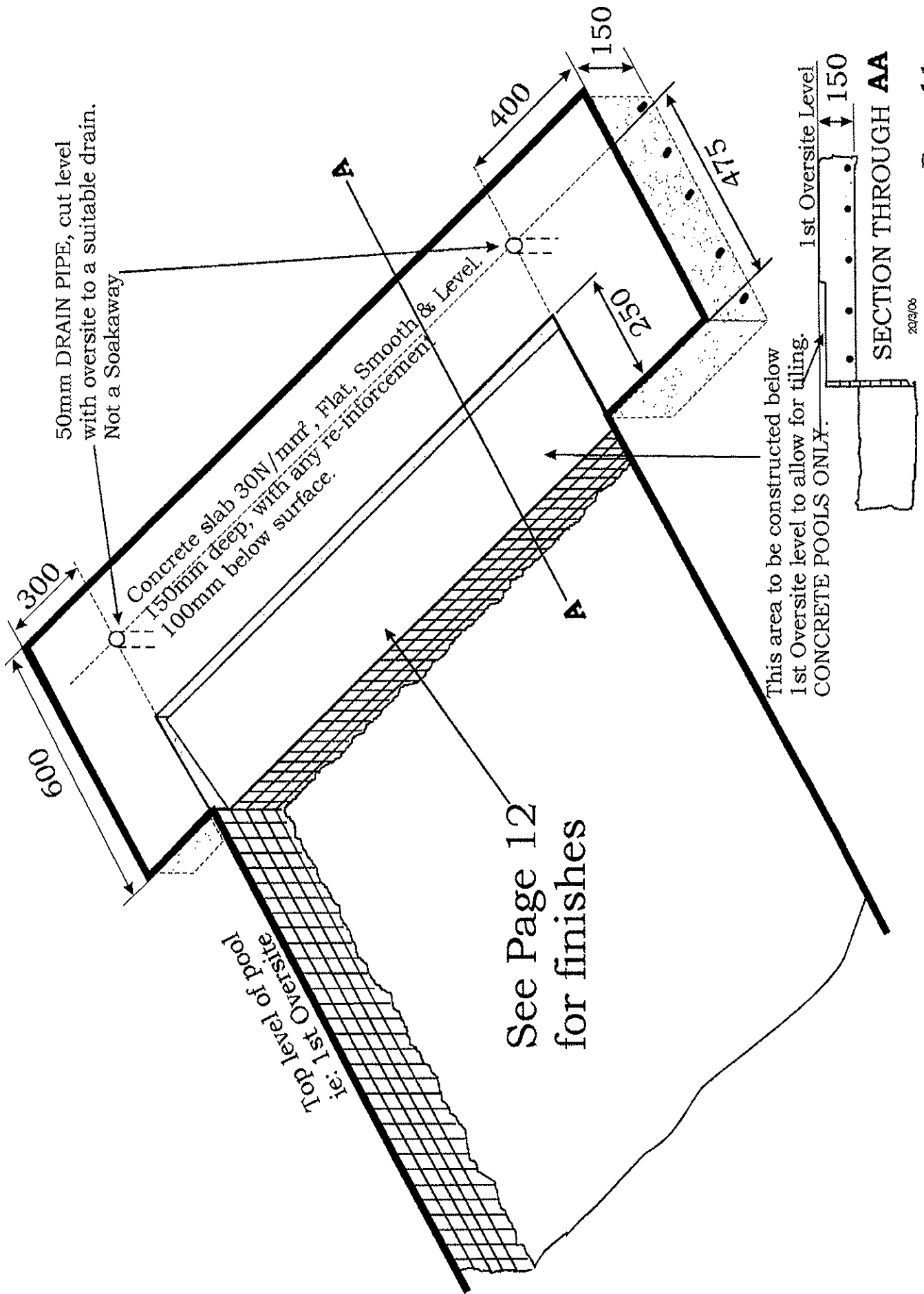
1st OVERSITE PLAN



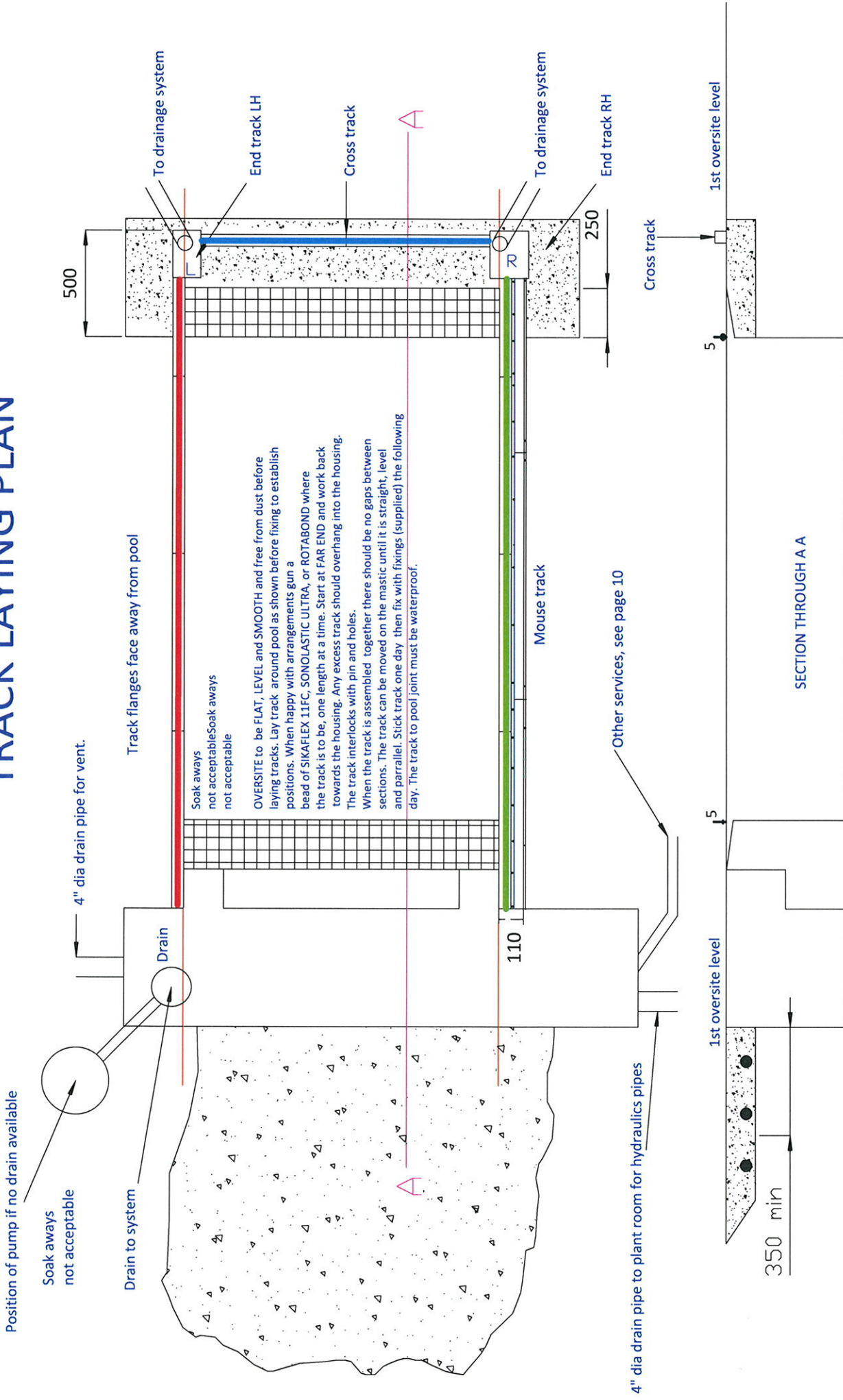
1st OVERSITE HOUSING END



FAR END




TRACK LAYING PLAN

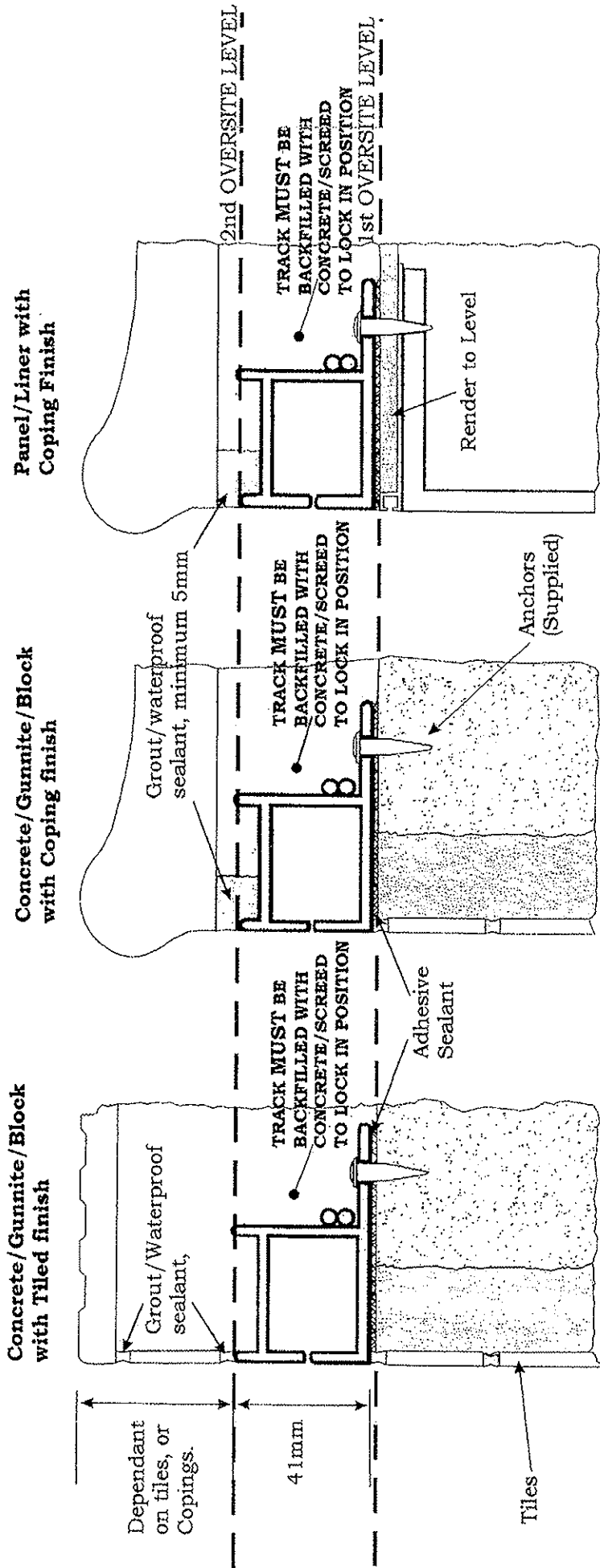


DO NOT REMOVE PROTECTIVE TAPE FROM TRACK

TRACK FIXING DETAILS

-  Render
-  Concrete
-  Adhesive

Tracks fit together with "Pin & Hole" system, (similar to toy train sets).
Track sections should butt together without gaps, (be sure not to get cement in gaps.)



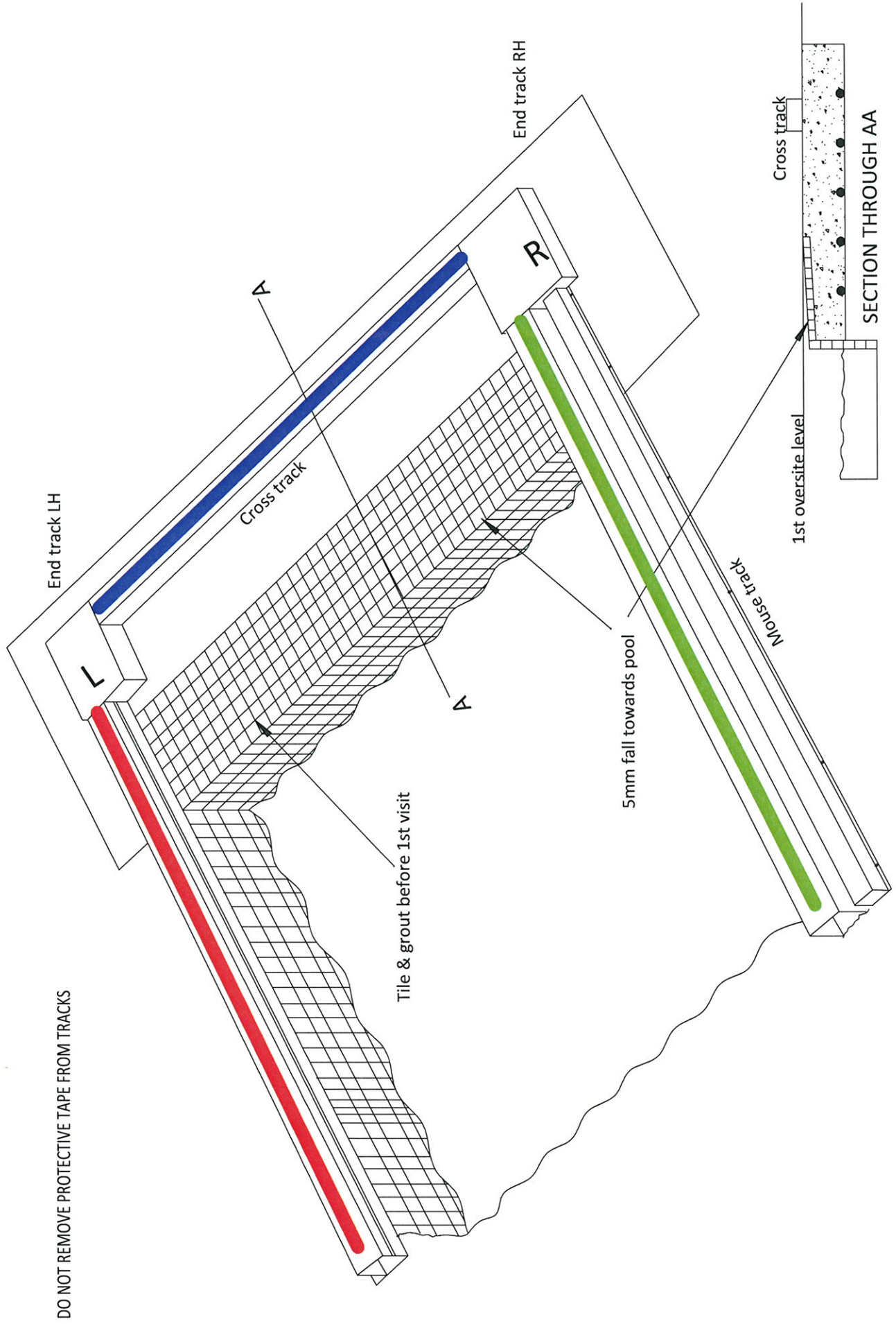
Leave sufficient gap under the coping for grouting, (5-10mm). It is very important to leave sufficient gap between Tracks and Finishes so it can be satisfactorily grouted, and hence sealed.

Ground level will depend on the tile size.
We recommend at least 1 tile above tracks on Tiled pools

DO NOT ATTEMPT TO LAY ANY COPINGS UNTIL THE CANTILEVER PANELS (supplied & fitted by DRIPOOL Engineers) HAVE BEEN FITTED AT EITHER END OF THE POOL OTHERWISE THE FLOOR LEVELS WILL BE WRONG.

Hatches are designed for standard 35mm Copings, plus 5mm of Grout. If using different sized Coping, or tiles, phone DRIPOOL to order special hatches (these may take 2 weeks to get- you could be held up!)

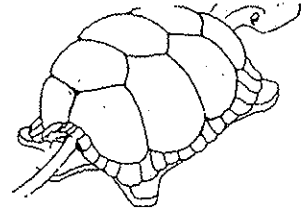
1st Visit "Far End"



Note: Mouse track and DRIGLIDE track are fixed to same level oversite. Mouse track will appear lower.



DRIPOOL Accessories



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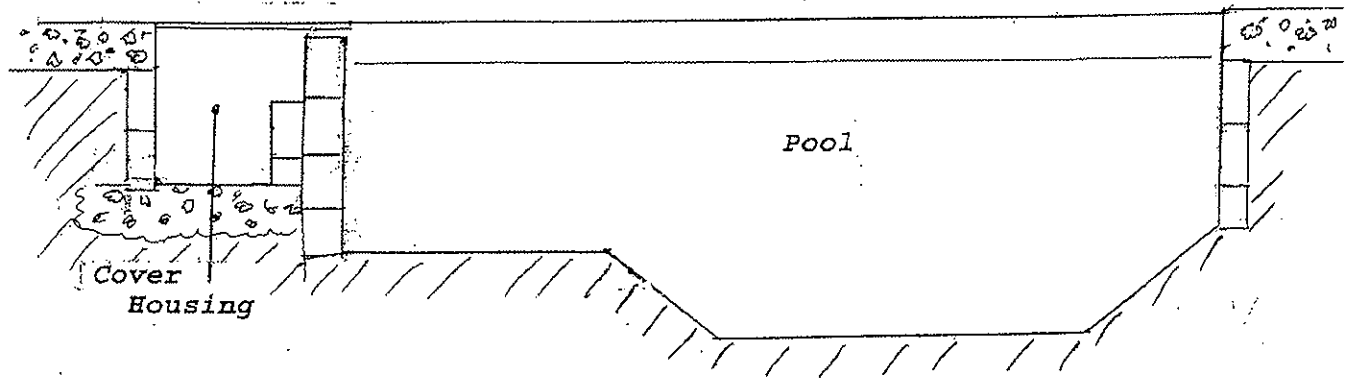
DESIGNERS, MANUFACTURERS AND SUPPLIERS OF SAFETY COVERS AND OTHER SPECIALISED COVER SYSTEMS

DRIGLIDE

SUMP PUMP KIT

THE PROBLEM

When your POOL and DRIPOOL COVER were installed, the site was "overdug" to facilitate construction. When the construction was completed this overdig was filled in using rubble, rejects and anything else that came to hand. The net result is that the whole area of overdig around the pool and cover housing has become a very large soak away drain. This is fine in regular weather until we get torrential rain and storms, so that the level of water in the "soak away" starts to rise, this is made worse if the ground is clay, as it will not allow the storm water to run away. The lowest area on the site is the pool cover housing, and however well it is built the water will always find a way in.



Discharge to a suitable drain

THE SOLUTION

The best solution is to build a gravity drain, however this is not usually possible because of the relative levels, the solution therefore is to fit a pump into the "overdig" and keep the water level below the bottom of the pool cover housing, as shown.

The SUMP PUMP KIT consists of:-

- Manhole Cover and Frame
- 300 mm Dia Filter Drain x 0.75 Metre
- Mains Submersible Pump with internal float switch

The whole assembly must be sited somewhere reasonably close to the cover housing, so that it connects with the overdig. It is important that the depths are adhered to, otherwise the housing may have stagnant water in it.

A competent Electrician must be used to connect the pump

