



**POST BASE**

Street signs are **TARGETS**, they are also an important asset to our community. This is about how to **STOP** this abuse in the most positive way, to improve the security of street signs.



Removing them has become a challenge. In most ordinary circumstances the sign would stand for a life time. Manual removal is possible because of the leverage available. This is demonstrated in the attachment together with the solution.



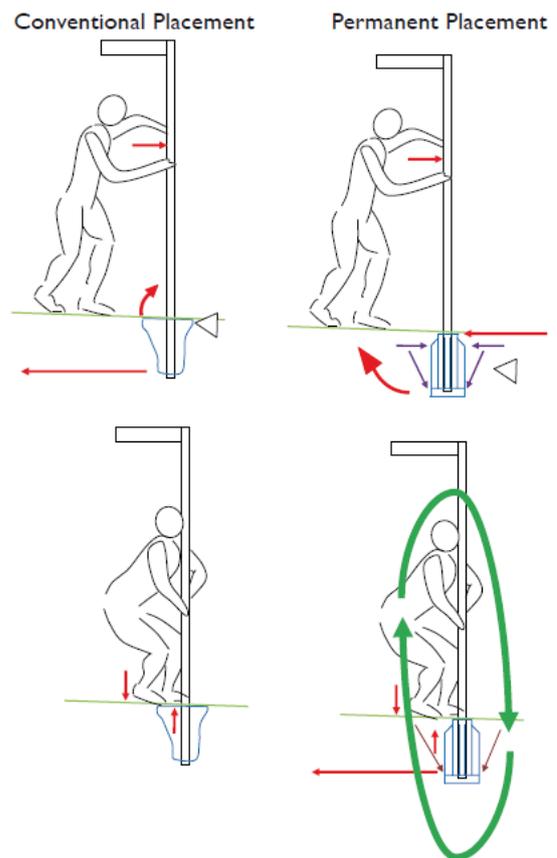
If this is a problem in your region then the answer below may well be what your council needs.

The problem appears to be localised in patches, so a solution that can be applied to the problem areas would be most effective.

Elite elements is able to provide a solution that is cost effective to make the sign unable to be manually removed.

Provide a precast concrete or steel base that removes the potential for the manual leverage normally available.

**Leverage Diagram**



Normally the sign will be loosened by using the pole as a lever, then placing the feet either side of the base to lift.

As shown on the left side of the diagram.

The improvement has been achieved by altering the leverage diagram. Firstly by the flutes and base that alter the nature of the fulcrum point. The flutes and base flat faces offer a defined resistance to the movement and the base as a whole stop the fulcrum operating as a single pivot point causing the whole base to resist turning.

Then when they place their mass and exertion force to attempt to extract the sign, their feet are placed inside the circle where their effort causes their mass and force to be directed onto the same ground holding the sign in place. Therefore creating a closed loop. This means the harder they try to pull, the same force is applied to the base in return and so no movement can take place and the sign stays where it is.

**Testing has demonstrated that the sign is even effective in loose beach sand.**

The sign won't look any different or cost much more but the resistance will take away the pleasure of success. The base will also offer the opportunity to replace the sign if a vehicle damages it using a wedge securing system. Therefore not needing to re-cast the base.

If new signs are placed with this system the advantage will remain always.

Recycled materials can be used in the manufacture of the base. Having the base pre cast makes the work at the site less complicated requiring only a little water and compaction to re-bond the clays

There are 2 sizes of the base, 300 diameter by 650 long for most common applications, providing the security using a small auger and the 500 diameter by 450 deep for shallow install to stay over the top of services if required.

To secure your signs you can choose from the following options:

- 500D x 450 base
- 300D x 650 base
- Wedges
- 500D mould for a 1 base or 5 base set
- 300D mould for a 1 base or 5 base set
- Centre tube, ring and wedge kit
- Contract for supply and install

Also available in steel.



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