



FOLLOW THESE SIMPLE STEPS TO DETERMINE THE PROPER LOCATION FOR THE SLOPE NEUTRALIZERS. PLEASE NOTE: THE ZIGGITY REGULATOR MUST BE INSTALLED AT THE HIGH END OF THE WATERING LINE. TOOLS REQUIRED: TRIPOD MOUNTED LASER AND METER OR YARD STICK.

- 1.) ADJUST THE WINCH DROPS SO THAT THE ENTIRE WATERING LINE IS EXACTLY THE SAME DISTANCE FROM THE FLOOR TO THE UNDERSIDE OF THE WATER PIPE. MAKE SURE THE DEVIATION FROM THE FLOOR TO THE UNDERSIDE OF THE PIPE IS NOT GREATER THAN 3.0 MM OR 1/8". THIS JOB CAN BE MADE SIMPLE AND EASY WITH THE USE OF A METER OR YARD STICK. ALLOW ONE END OF THE STICK TO TOUCH THE FLOOR AND THE OTHER END TOUCH THE UNDERSIDE OF THE WATER PIPE.
- 2.) POSITION THE TRIPOD MOUNTED LASER DEVICE AT THE REGULATOR END OF THE LINE BUT AT LEAST 4 METERS OR 12 FEET TO THE SIDE.
- 3.) ENSURE THAT IT IS LEVEL AND SET UP PROPERLY
- 4.) PLACE THE METER OR YARD STICK VERTICALLY (STRAIGHT UP) ON TOP OF THE SUPPORT PIPE RIGHT NEXT TO THE END OF LINE REGULATOR. (SEE "A") WINCH THE SYSTEM UP OR DOWN SO THAT THE BEAM HITS EXACTLY THE 5 CM MARK ON THE METER STICK OR 2" ON THE YARD STICK.
- 5.) MOVE DOWN THE LINE WITH THE LASER BEAM (HORIZONTAL SWEEP ONLY NO VERTICAL MOVEMENT OF THE LASER) UNTL YOU ACHIEVE A LASER STRIKE POINT ON THE METER STICK OF EXACTLY 15 CM OR 6 INCHES ON THE YARD STICK. MAKE A MARK ON THE SUPPORT PIPE FOR THE LOCATION OF THE FIRST SLOPE NEUTRALIZER.
- 6.) MOVE EVEN FURTHER DOWN THE LINE UNTIL YOU ACHIEVE A LASER STIKE POINT OF EXACTLY 25 CM OR 10 INCHES ON THE YARD STICK. MARK THE PIPE FOR THE LOCATION OF THE SLOPE NEUTRALIZER NUMBER 2.
- 7.) REPEAT THIS PROCESS UNTIL YOU NO LONGER CAN ACHIEVE AN ADDITIONAL 10 CM OF FALL ON THE METER STICK OR AN ADDITIONAL 4 INCHES ON THE YARD STICK
- 8.) REPEAT THE ABOVE PROCEDURES FOR THE REMAINING LINES.



**SLOPE NEUTRALIZER PLACEMENT
FLOOR WATERING SYSTEMS - LASER METHOD**

DATE: 10-01-04 REVISION:

PART NR.:
GL1042