



**GENERAL
STRUCTURES
INC**
A DWM COMPANY

Embedded Sports Pole Installation

The following instructions are only intended to be a guideline for the installation of General Structures Inc. products. Special care should be taken to confer with the customer and local structural engineer to verify if any special installation requirements are needed due to local soil conditions and/or electrical requirements. These guidelines should also be used in conjunction with the approved submittal drawings for the specific project as supplied by General Structures Inc.

On embedded structures, typically the bottom section of the pole is installed first. The foundation site excavation should allow for the designed embedded length of the bottom shaft (per the cut sheets) as well as the diameter requirements for sufficient concrete or gravel backfill to withstand the maximum reactions that might be applied to the base section. Also, any consideration for electrical requirements should be addressed.

The base section should be marked at the suggested embedded depth and this mark should be ground-line elevation when the bottom section is installed. Care should be taken to make sure the section is vertical before proceeding as there is no adjustment. If space is available and crane capabilities permit, it is typical to assemble the remaining structure on the ground and erect it as a unit. The sections should be aligned on the ground and supported with wood blocks. Make sure that the mating surfaces are kept clean. Care should be taken to make sure the sections are assembled to allow the climbing steps and/or lighting crossarms or platforms to be aligned.

The slip joints should be lubricated with soapy water. When the sections are slipped together, sufficient force should be applied to achieve a tight fit. There should be no significant gaps between the sections at the slip joint, and the entire shaft should be straight. Once the sections are assembled and the fixture brackets are attached, the entire unit may be lifted and installed on the embedded base section. Again, care should be taken to make sure the orientation of the light fixtures is correct and that there is a clean, tight slipfit at the bottom joint.

