

## Hector J. Sotelo, P.E. Project Manager



### Education

- Bachelor of Science/Civil Engineering  
Autonoma University of Ciudad Juarez,  
Mexico – 1989
- Graduate Studies/Engineering  
Management  
Technological Institute of Ciudad Juarez,  
Mexico – 1993

### Registration

- Registered Professional Engineer  
State of Texas – No. 104800
- Board of Professional Registration Mexico  
No. 1366395

### Affiliations

- American Society of Civil Engineers
- Association and College of Engineers &  
Architects - Mexico

### Professional Experience

- Condak/Pulte Home Contractors, Inc.  
Juarez, Mexico
- Structural Systems and Engineering  
Juarez, Mexico
- Industrial Parks of Mexico  
Juarez, Mexico

Years of Experience: Overall 22: JEA HydroTech 13

Hector offers diversified experience with project accomplishments in both the United States and Mexico. His land development experiences includes the design and layout of residential, commercial and industrial developments, including, preparation of traffic control plans, earthwork calculations, design of streets and roadways, drainage systems, water and sewer systems, utility re-location plans and storm water pollution prevention plans.

## Project Experience

- **Embankment Stabilization - (portion of Prairie Creek) - Richardson, TX**

Professional Engineering services involved the preparation of structural plans and details for the restoration of the creek's embankment and stabilization. Areas of responsibility consisted of: determining the creek's hydraulic data (i.e.: 100 yr. storm frequency, WSEL, flow velocities, support soil properties; gabion structural design; application of geotextile fabrics for erosion control and soil mass stabilization; etc.).

- **Drainage Improvements – Pinehurst Ln. - Grand Prairie, TX**

Under the city's CIP drainage improvements program, the project's development responsibilities included: verifying stormwater runoff quantities from the contributing watershed; and, developing the hydraulic model for the proposed improvements to the existing drainage channel. Upon computing the necessary hydrological/hydraulic data, embankment stabilization plans were prepared to containing the channel's hydraulic jump. In addition, civil site plans were prepared involving: demolition; grading/drainage; erosion control; stormdrain outlet structure; sizing; and, embankment stabilization plans and details (i.e.: gabion structural design; application of geotextile fabrics for erosion control; etc.)

- **Hidden Creek Estates - Copper Canyon, TX**

Professional Engineering responsibilities consisted of: reviewing available HEC-RAS computer models of Pointdexter Creek for the construction of a new vehicular bridge and develop the hydraulic model to incorporate the new structure. Also, included was the delineation of the Floodplain/Floodway for the computed 100 yr. storm frequency, preparing the Letter of Map Revision (LOMR) and the Conditional Letter of Map Revision (CLOMR) per FEMA regulations.