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 25: JEA HydroTech 16

Hector offers diversified experience with project accomplishments in both the United States and Mexico.
His Experience includes HEC-1 (HEC-HMS) and HEC-2 (HEC-RAS) modeling of numerous projects in the DFW Metroplex. Mr. Sotelo has been a key member of our design team for dozens of projects involving floodplain analysis, detention ponds, culverts, channels and storm drain improvements as well as slope stabilization.

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.