

INDIAN CREEK AT MEDINA BASE ROAD, SAN ANTONIO, BEXAR COUNTY, TEXAS
STREAMGAGE INSTALLATION SPECIFICATIONS
LATITUDE: 29° 22' 1.01" N, LONGITUDE: -98° 37' 35.65" W

GAGE SHELTER:

- The data collection platform/satellite transmitter is housed in a 48" X 31" X 51" jobsite box-type shelter on the downstream, left edge at end of concrete guardrail.
- Gage shelter is supported by galvanized angle iron steel legs, concreted.
- Satellite antenna and solar panel are mounted on a 2" aluminum pipe mast attached to the side of the shelter.
- Tipping bucket attached to Gage Shelter.
- Water Sampler at site.

STAGE SENSOR ORIFICE LINE:

- The stage sensor orifice line will be encased in 3/4" rigid galvanized conduit beginning at the gage shelter on the downstream left side, attached to the bottom of the concrete retaining wall, terminating at culvert opening. Conduit will be secured to concrete using 3/8" X 3 1/4" galvanized concrete wedge anchors and conduit clamps every seven feet.

SAMPLER ORIFICE LINE:

- The sampler sensor orifice line will run parallel to stage sensor orifice line and will be encased in 1" rigid galvanized conduit beginning at the gage shelter on the downstream left side, attached to the bottom of the concrete retaining wall, terminating at culvert opening. Conduit will be secured to concrete using 3/8" X 3 1/4" galvanized concrete wedge anchors and conduit clamps every seven feet.

TYPE-A WIRE WEIGHT:

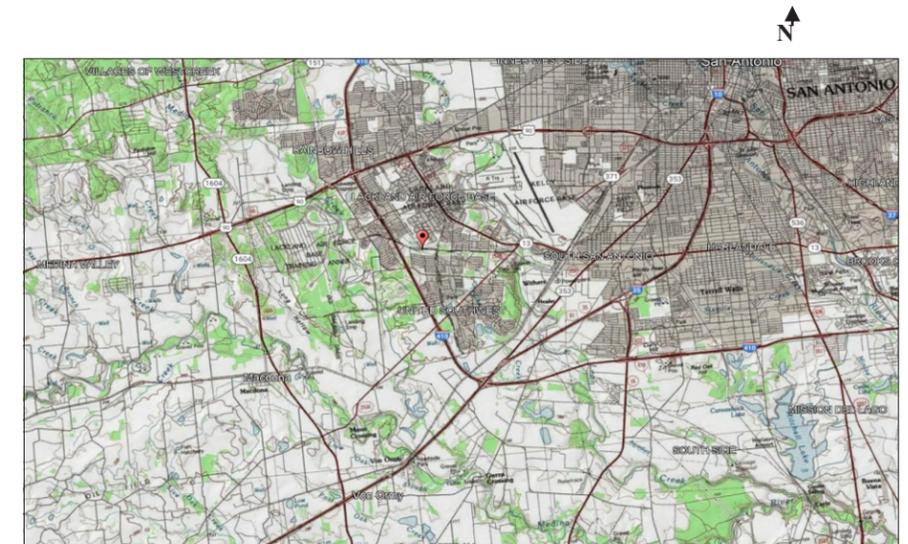
- A USGS Type-A Wire-Weight gage would be attached on the downstream side, outside face of the downstream concrete guard rail, over the deepest portion of the channel. Wire-Weight will be attached using a minimum of two 3/8" X 3 1/2" galvanized concrete wedge anchor bolts.

CREST STAGE GAGE PIPE:

- A Crest Stage Gage (CSG) will be attached to the downstream side concrete guard rail using a minimum of two 3/8" X 3 1/2" galvanized concrete wedge anchor bolts and bottom on the downstream concrete vertical wall at end of bridge using a minimum of two 1/2" X 3 1/2" galvanized concrete wedge anchors.

GENERAL NOTES:

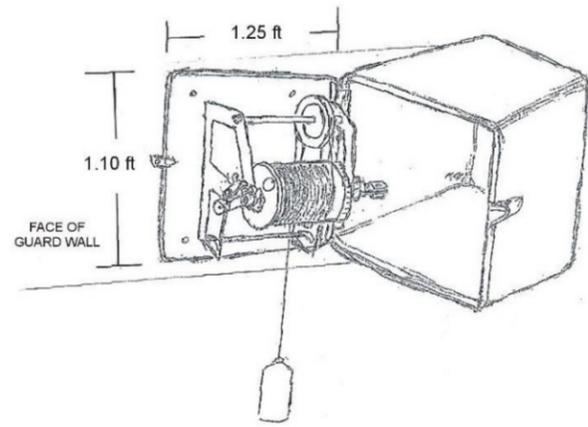
- No attachments to the bridge will extend above the elevation of the bridge guard rail.
- Traffic control procedures will be followed as described in the TXMUTCD during installation, operation and maintenance of the stream gage.



Proposed location of Indian Creek at Median Base Road,
San Antonio, Bexar County, Texas

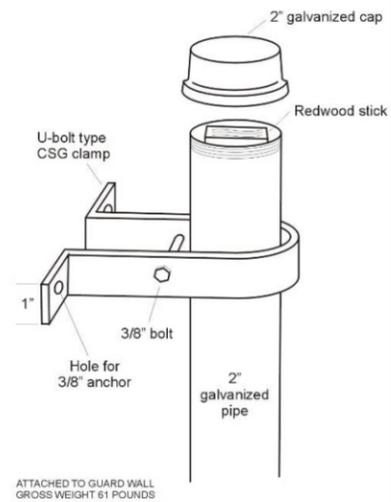


Typical Jobsite Box installation



TYPE-A WIRE-WEIGHT
GROSS WEIGHT 41 POUNDS

Detail of a wire weight gage



Detail of a Crest Stage Gage



Water Sampler



CGS and Conduit lines



Gage Shelter stand



Jobsite box and conduit location



Picture showing stage and sampler conduit lines

