

WORKING IN FLOOD ZONES

HELPFUL TIPS!

(WHEN TO RUN FOR HIGH GROUND!!!)





KRISHAN GINIGE, P.E., MS, CFM

- * President of SEC
- * Civil Engineer with over 20 years of experience
- * Experience in Geotechnical, Structural, Hydraulic Engineering
- * Certified Floodplain Manager
- * Supervised Projects Worldwide





Southwestern Environmental Consultants

Completed nearly 6,000 resource consulting, engineering, surveying, and project management projects throughout the United States, specializing in:

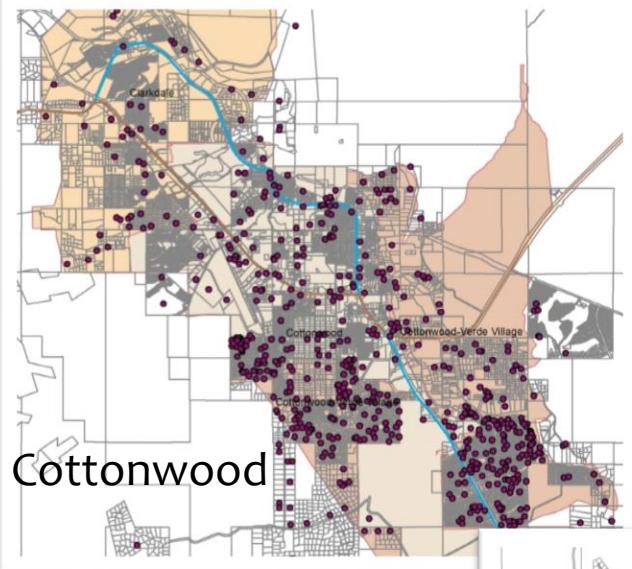
Civil Engineering
Floodplain Studies
Drainage Studies
Structural Eng.
Water/Sewer Design
Land Use Planning
Land Surveying

ALTA Mapping
Topography Mapping
CAD/3D Modeling
ESA/EIA/NEPA
Water Rights
Forest Land Planning
GIS Mapping

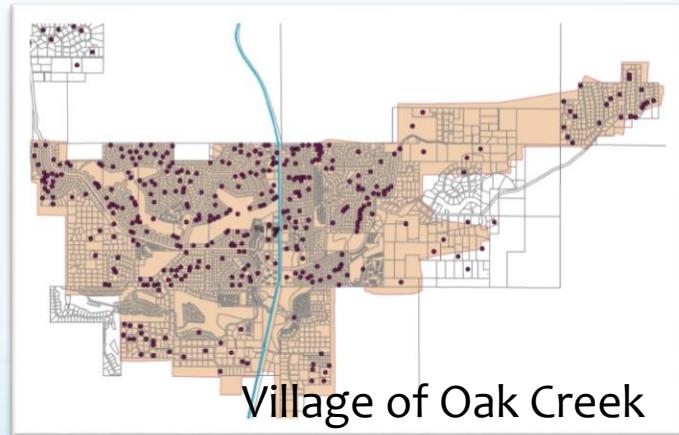
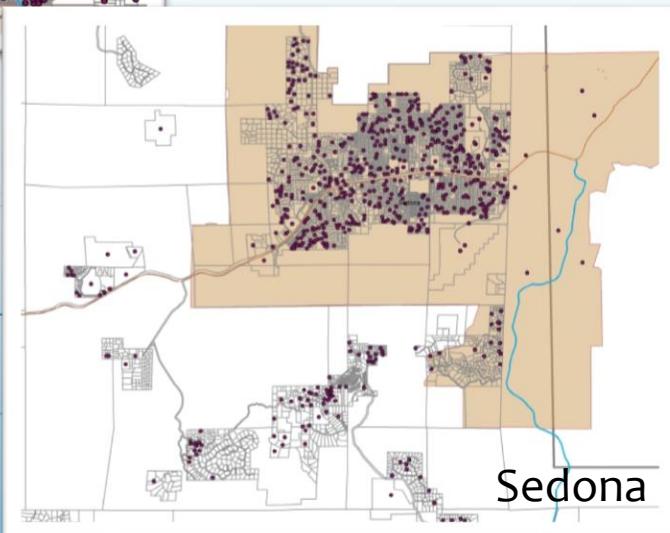
Offices: 20 Stutz Bearcat Dr. #6, Sedona
825 Cove Pkwy, Cottonwood

Celebrating 43 years of trusted excellence

Experience



- Boundary/Topographical Surveys
- ALTA Surveys
- Minor Land Divisions
- Subdivisions
- Water Rights
- Flood Studies



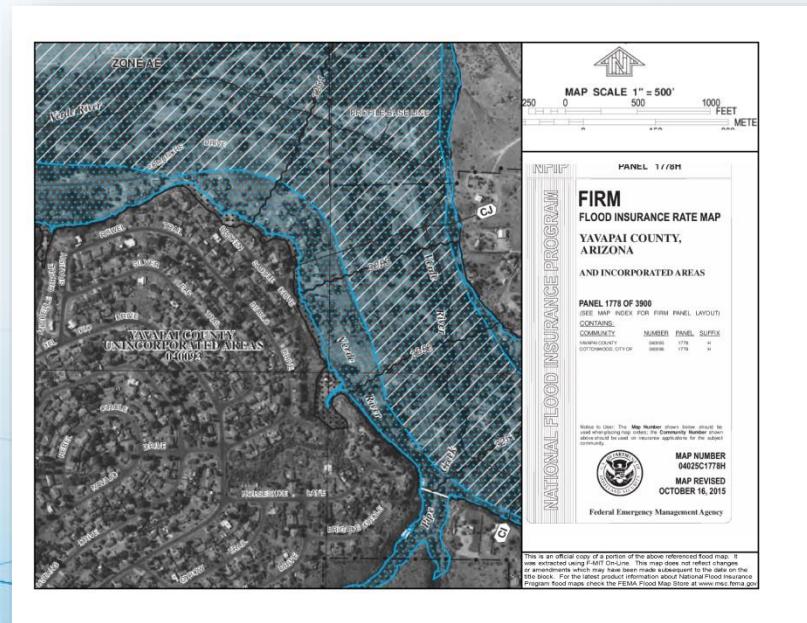
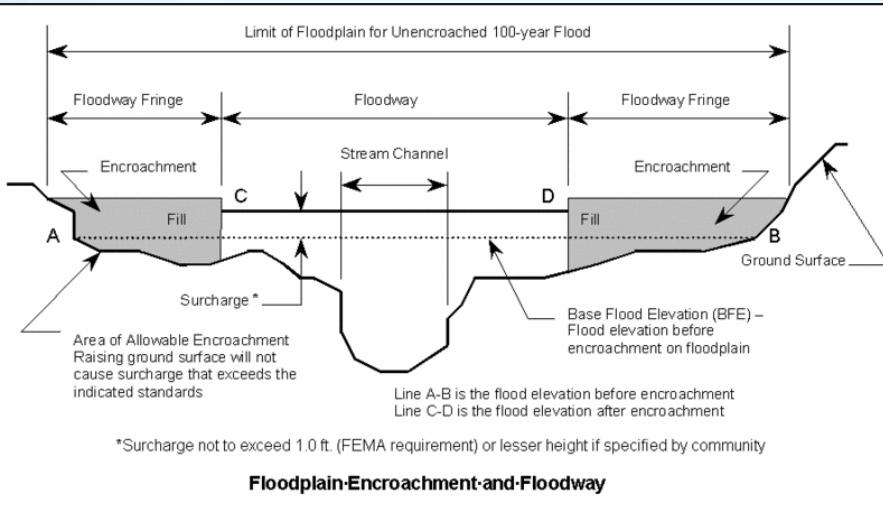
TYPES OF FLOOD RELATED ISSUES TO KNOW

- * FEMA Regulated Flood Zone
- * Local Jurisdiction
- * General Flooding



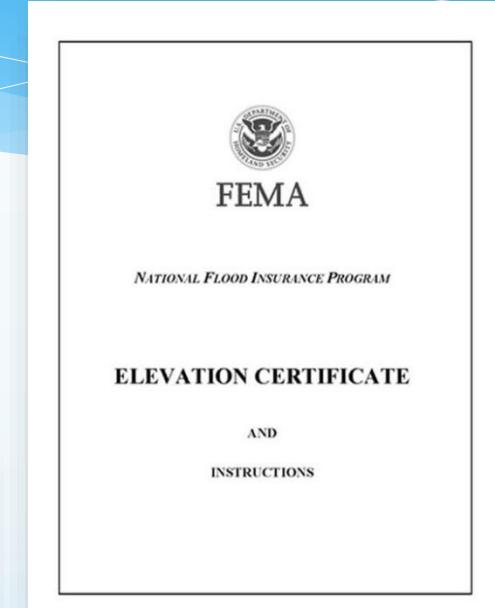
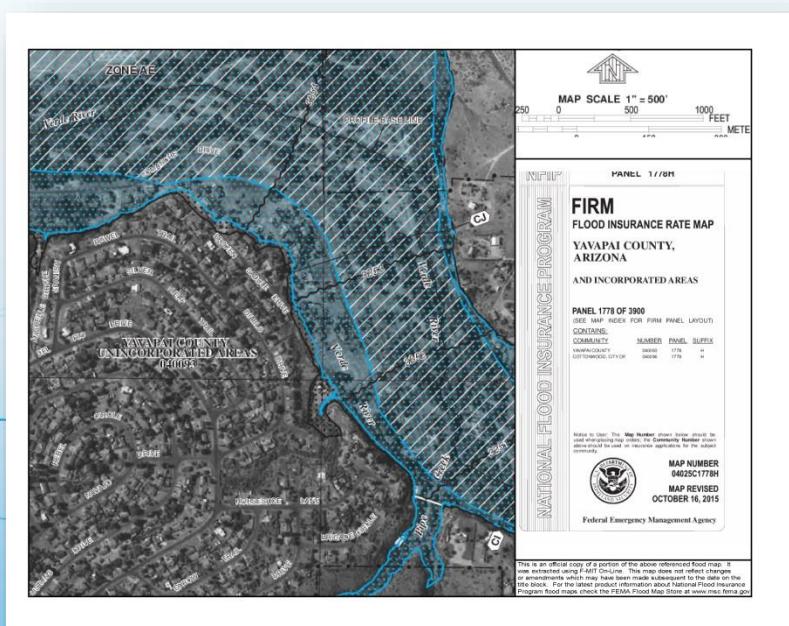
FEMA REGULATED FLOOD ZONE

- * Are you in a flood zone
- * Is the structure above Base Flood Elevation (BFE)/RFE
- * How can I provide seller/buyer assurance
- * How can I prove Insurability



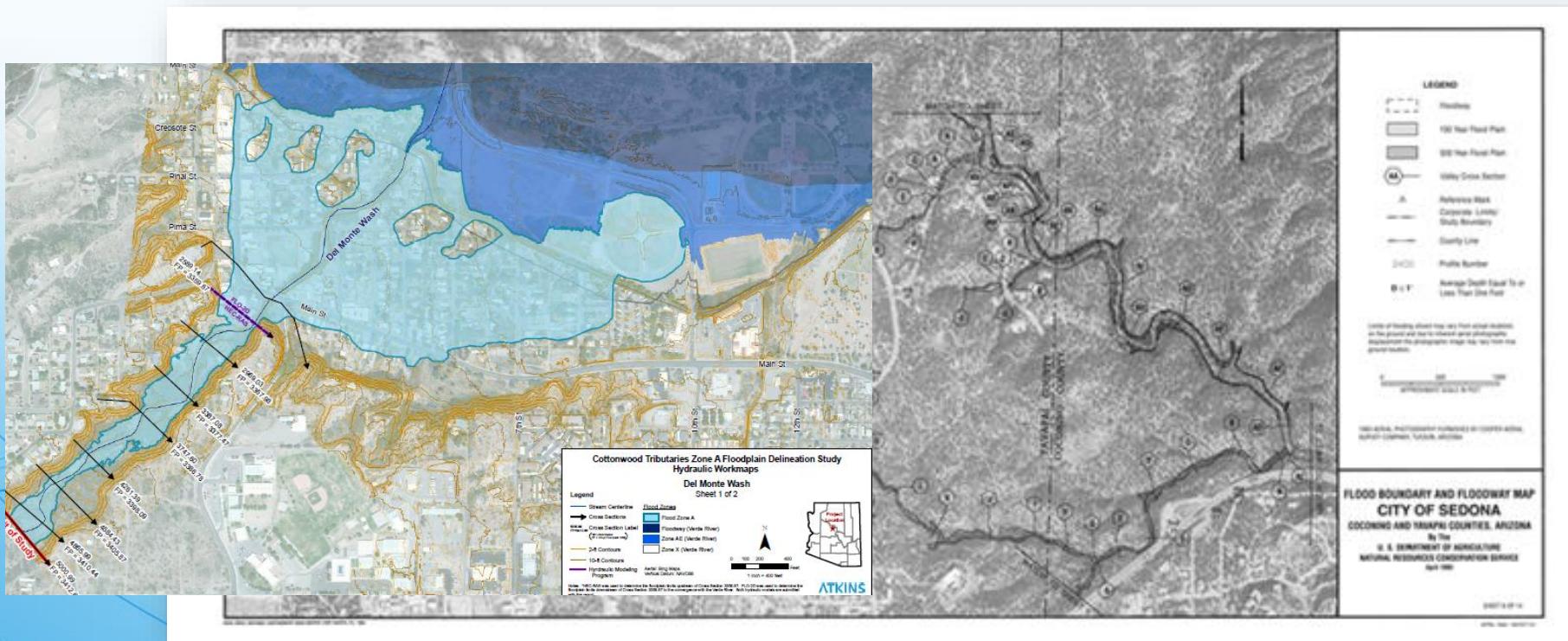
FEMA REGULATED FLOOD ZONE

- * EC (Elevation Certificate)
 - * Check for latest studies
 - * Check for datum
 - * Check for modifications/upgrades
- * LOMA



LOCAL JURISDICTION

- * Flood Maps produced by local Government Agencies
- * Not FEMA regulated but Locally Regulated



GENERAL FLOODING

- * Washes
- * Concentrated Flows
- * Sheet Flows

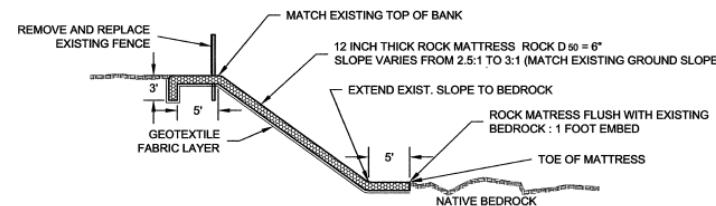
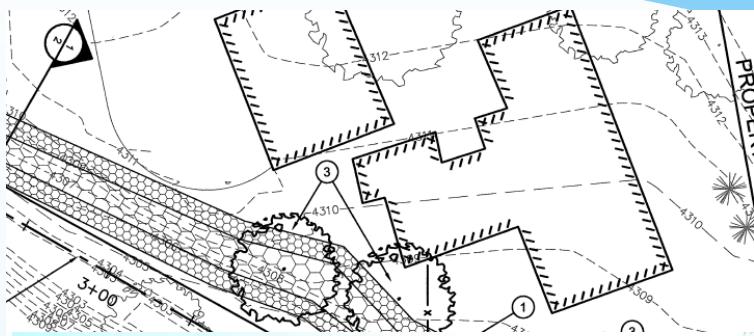


BUILDING IN FLOOD HAZARD AREAS

- * Set Backs/Lateral Migration of Washes & Rivers
- * Bank Stability

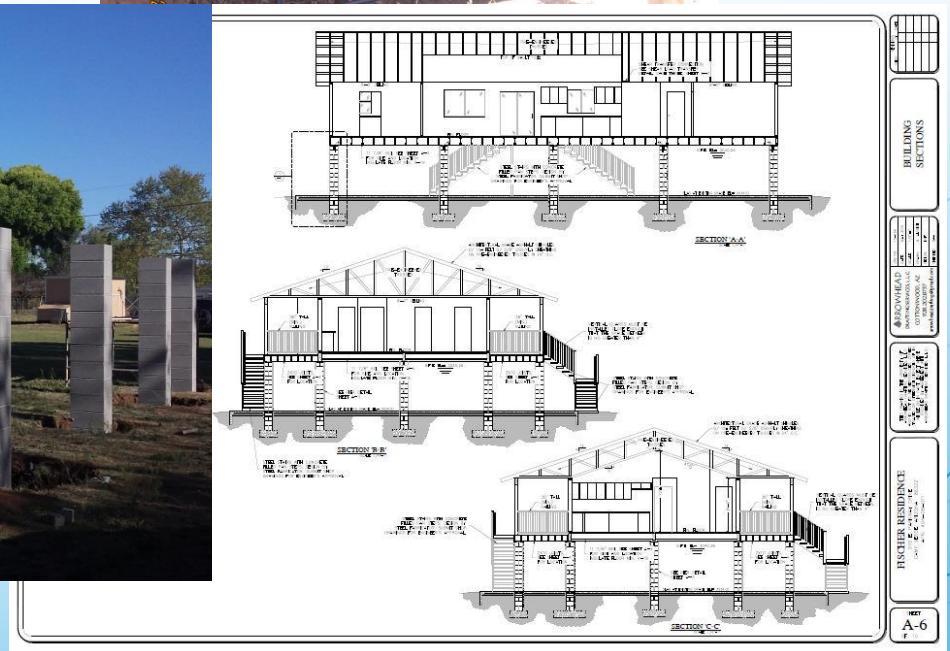


BUILDING IN FLOOD HAZARD AREAS



BUILDING IN FLOOD HAZARD AREAS

- * Structural Considerations
- * Scour/Erosion
- * Utility Construction
- * No-Rise Condition



Questions ?

