

TYPE 1 MONUMENTS

<u>Monument*</u>	<u>Horizontal Stability**</u>	<u>Vertical Stability**</u>	<u>Endurance</u>	<u>Available at needed Location</u>	<u>Use in Soil Type</u>	<u>Effort to Set Monument</u>	<u>Use for Control ***</u>
Rock	Excellent	Excellent	Very good	Very seldom	Sound Bedrock	Medium	H, V, 3, B
Permanent Structure	Very good to poor ****	Very good to poor ****	Very good	Seldom	Not applicable	Medium	H, V, 3, B
Cast-in-Place Concrete	Good	Good to poor	Good	Usually can be placed where needed	All except marsh	Large	H, V, 3, B
Precast concrete	Good to poor	Good to poor	Good	Usually can be placed where needed	All except bedrock and marsh	Large	H, V, 3, B
Boulder	Good to poor	Poor	Good to poor	Very seldom	Only granular	Medium	H, V(ST), 3(ST), B
Iron pipe	Good to poor	Poor	Good to poor	Usually can be placed where needed	Most	Medium	H, B
Metal	Good to poor	Poor	Poor	Usually can be placed where needed	Fine granular and marsh	Medium	H, B

* See text for description of monuments.

** The stability of the monument and the surrounding area should always be evaluated by the surveyor before setting or using a monument.

*** H=Horizontal Control, V-Vertical Control, 3=Three dimensional control, B=Boundary Control, (ST)=See Text

**** The stability of the monument depends upon the type and design of the structure. The foundation of a large structure is usually stable. A retaining wall is usually not stable.

TYPE 2 MONUMENTS

<u>Monument*</u>	<u>Horizontal Stability**</u>	<u>Vertical Stability**</u>	<u>Endurance</u>	<u>Available at needed Location</u>	<u>Use in Soil Type</u>	<u>Effort to set Monument</u>	<u>Use for Control***</u>
Iron Pipe	Good to poor	Poor	Good to poor	Usually can be placed where needed	Most	Small	H, B
Metal Rod	Good to poor	Poor	Good to poor	Usually can be placed where needed	Most	Small	H, B
Extendable Metal Rod	Good to poor	Poor	Good to poor	Usually can be placed where needed	Fine granular	Small	H, B
Metal Pipe	Good to poor	Poor	Good to poor	Usually can be placed where needed	Fine granular and marsh	Small	H, B
Chiseled Cross	Very good	Not Applicable	Good	Very seldom	Not applicable	Small	H, B
Chiseled Square	Not applicable	Good	Good	Seldom	Not applicable	Small	V(ST)

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TYPE 3 MONUMENTS

<u>Monument*</u>	<u>Horizontal Stability**</u>	<u>Vertical Stability**</u>	<u>Endurance</u>	<u>Available at needed Location</u>	<u>Use in Soil Type</u>	<u>Effort to set Monument</u>	<u>Use Control***</u>
Metal Rod	Good to poor	Very Poor	Good	Usually can be placed where needed	Most	Small	H
Masonry Nail	Usually very good	Very good to poor	Very good to poor	Usually anywhere in asphalt	Not applicable	Small	H, V, 3
Railroad Spike	Very good to poor	Very good to poor	Very good to poor	Usually can be placed where needed	Not applicable	Small	H, V, 3(ST)
Chiseled-Cross	Very good	Not applicable	Good	Seldom	Not applicable	Small	H
Sawed-Cross	Very good	Good to poor	Good to poor	Seldom	Not applicable	Small	H, V(ST), 3(ST)
Chiseled-Square	Not applicable	Good	Good	Seldom	Not applicable	Small	V

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*** H=Horizontal Control, V-Vertical Control,3=Three dimensional control, (ST)=See Text