

The Diadem Trail

on Little Tinicum Island in the Delaware River

Map:	(See PDF attachment)
User Type:	Hiker, Wildlife Observation & Hunting
Level of Use:	Recreational light, wildlife and native plant observation, waterfowl hunting
Use Season:	Year round
Level of Difficulty:	Easy to moderate

Specification:

Length:	1.7 miles
Observation decks:	2
Tread Width:	24 to 36 inches
Grade:	mostly level with moderate climb 10' to trail head
Clearance:	6' or more
Surface obstacles:	Scrub/Vegetation minimal
Drainage Structures:	none needed
Cut:	none required
Fill:	minimal amount required

Operations and Patrol:

Conducted by State Agencies and Volunteers

Maintenance:

Conducted by PA DCNR~ Forestry semi-annual

Facilities:

Steps
Breakaway Bridge (see attached PDF File)

Cost:

Materials: Lumber, decking, railroad ties, concrete, rebar
\$ 1,575
Labor: 235 Man-hours
\$ 5,988
Transportation & Equipment rental:
\$ 731

Total: **\$8,294**

Pictures:



Existing Duck Blind that will be at the side trail terminus

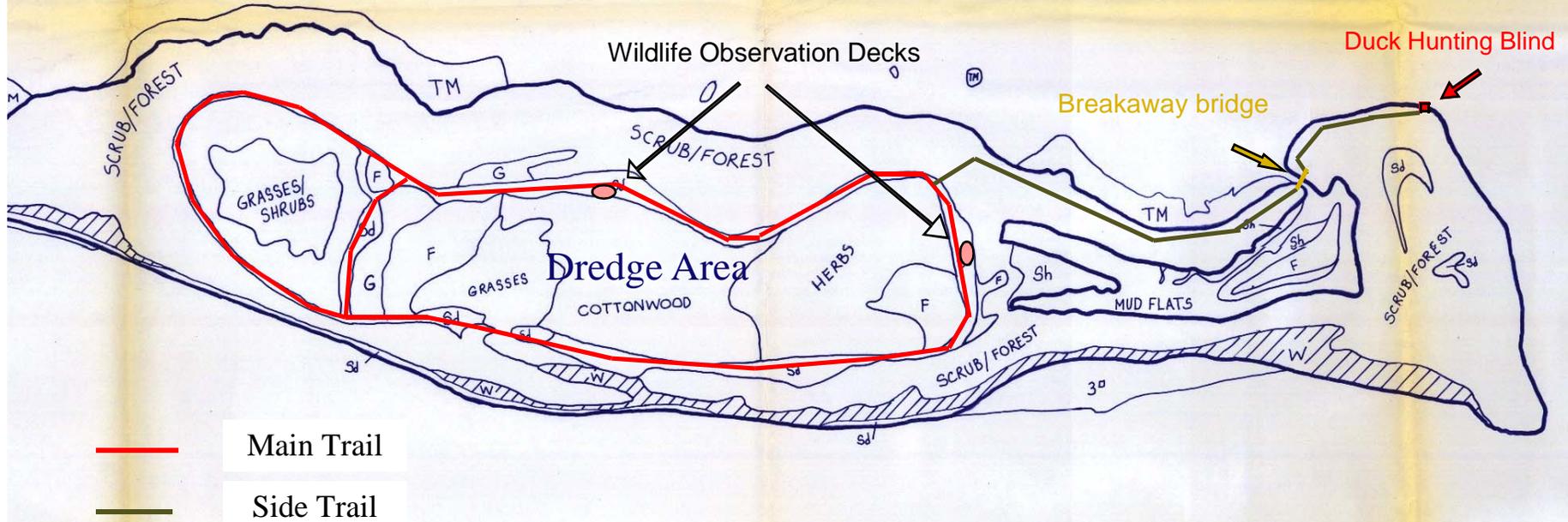


Location for breakaway bridge



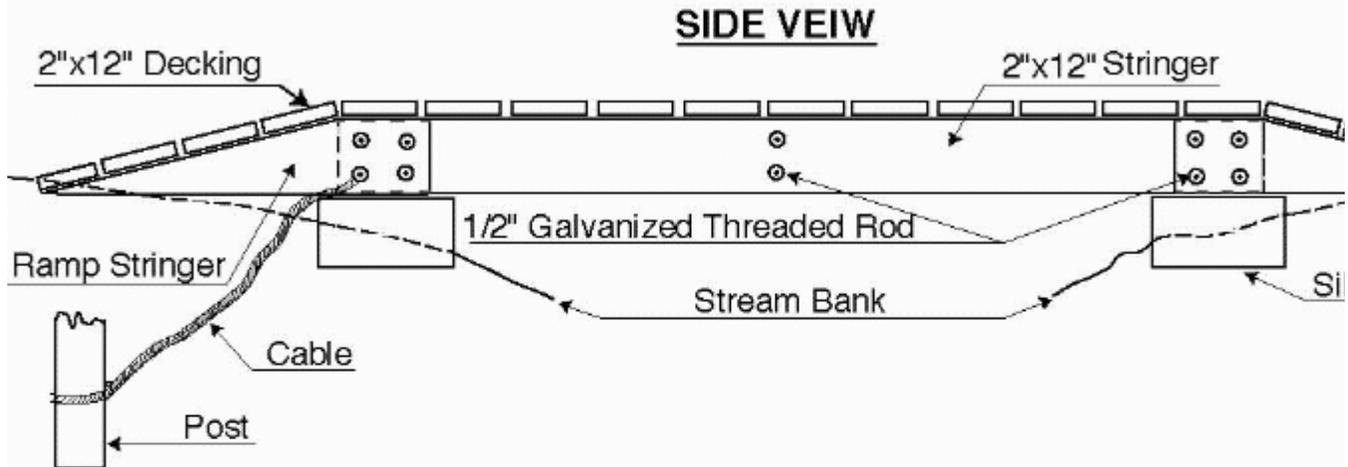
Location of 1 of 2 Wildlife observation decks

Diadem Trail

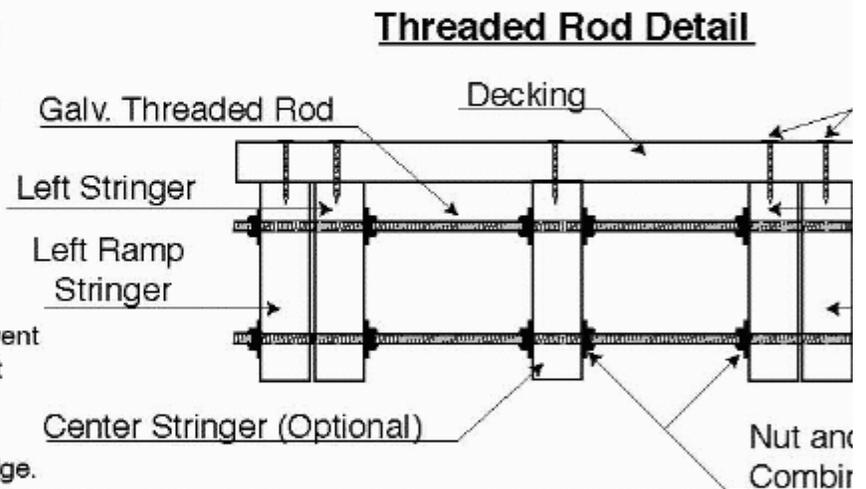


BREAK AWAY BRIDGE

Drawing not to scale



NOTES: Bridge is designed to stand independently of the sills. Sills may be made of stone, wood, or other suitable durable material (concrete parking stops work well) Sills should also be pinned with rebar to prevent them from being dislodged during heavy flooding. The use of the threaded rod between the stringer helps ensure the rigidity of the bridge and helps prevent damage if bridge is subjected to violent conditions. The cable or chain used to secure the bridge should be rated for double the estimated weight of the bridge. The ramp should extend into the existing grade on either side so that the entrance and exit is smooth. If the bridge proves to be too heavy for two people to lift back into place then it can be winched in using a hand winch. The decking should also be coated with a non-skid epoxy paint and finished to about the consistency of 100 grit sandpaper.



Note: Below if decking v

