

CASE STUDY

PROJECT NAME	HMIM Office Complex Drainage Project
PROJECT LOCATION	Mandeville, LA
OWNER	HMIM Inc. Richard Vanek, President Mandeville, LA
ENGINEER / CONSULTANT	N/A
PRODUCT DETAILS	
PRODUCT	+ 600 lf of 12" Trapezoidal Smart Ditch Sections + 120 lf of 24" Trapezoidal Smart Ditch Sections
ANCHORING SYSTEM	Standard Anchoring System
Joint Type(s):	Gasketed Joint
Fitting(s) used/description:	N/A



IMPORTANT PROJECT DETAILS

Project Type:

New Installation

Type of Application: Drainage/Irrigation

SmartDitch was used to create a perimeter ditch along the back and side property line and to line an existing earthen drainage ditch at the front of the property.

Why was SmartDitch used on this Project?

SmartDitch was chosen because of the following benefits:

- > Superior Flow Characteristics to improve the flow of the water for drainage purposes
- > Stable Channel Design to prevent erosion during heavy rain events
- > Excellent Abrasion Resistance
- > Durable Material that reduces maintenance issues

What specific features of this product were important to the owner?

- > Ease of Installation
- > Durability
- > Cost Effective Solution to Problems

What other competitive materials were bidding on this project?

Drainage pipe was considered but rejected due to installation and long term maintenance costs.

Were other materials also used on this project?

No

INSTALLATION DETAILS

As the rain drains during a storm event in Louisiana, the movement of water can have a devastating effect on private and public properties. During the post Katrina reconstruction period, many property owners are quite concerned about how to move stormwater quickly and effectively off of their properties. The city of Mandeville, Louisiana borders Lake Pontchartrain and suffered tremendous damage from Hurricane Katrina. When Richard Vanek, President of HMIM Inc. decided to build his new office and warehouse facility in Mandeville, he also decided to prepare for the future and design a drainage system to effectively move water away from his building, parking lots and storage areas.

The building complex is located along Highway 59 and adjacent to a strip mall and private residences. To ensure that water from the property drained in to the parish drainage ditches along Highway 59, a perimeter drainage system was designed. Along the side and back property lines, 12" deep SmartDitch Trapezoidal sections were laid to effectively form a SmartDitch drainage system. The low

profile of the SmartDitch sections allowed the water to run-off of the parking lots, storage areas and the vegetated areas and into the SmartDitch. The drainage system also effectively prevented run-off from going on adjacent properties. The flow from the back and sides of the complex drained into the drainage ditch along Highway 59 in front of the complex. Along Highway 59, 24" deep SmartDitch Sections were laid to minimize the possibility of erosion during peak flows, to keep the ditches clear of unwanted vegetation and to reduce the maintenance of mowing.

The installation of the + 720 lf of SmartDitch took several days as additional landscape work was performed in conjunction with the installation. The SmartDitch was laid in the native sandy soil and no additional backfill was needed to be brought in. The excavation was performed by a small track hoe and the installation crew was composed of two additional laborers. The sections were laid up to an existing culvert head wall where a 24" CMP connected into the existing parish ditch system.

PHOTOS



After the completion of the installation several rain events occurred with the water quickly and effectively draining off of the property with no signs of erosion or difficulties.