TrenchMark
UTILITY LOCATING TECHNOLOGY

TM-2000 SERIES

DETECTABLE WARNING TAPE

Compact product submittal for engineering review and specification approval. TM-2000 provides a visible warning layer and passive electronic path identification for buried water infrastructure.

PRODUCT CONCEPT	INTENDED APPLICATIONS
Single-layer polyethylene warning tape with an external protected passive marker assembly. Each model is configured by utility color, warning legend, and electronic marker frequency.	Water, wastewater, pressurized wastewater, and reclaimed water utility installations.

Product Family

MODEL	APPLICATION	COLOR	RF FREQUENCY	MAIN WARNING LEGEND
TM-2101	Water	Blue	73.5 kHz	CAUTION WATER LINE BURIED BELOW
TM-2102	Wastewater	Green	41.4 kHz	CAUTION WASTE WATER LINE BURIED BELOW
TM-2103	Pressurized Wastewater	Green	41.4 kHz	CAUTION PRESSURIZED WASTE WATER LINE BURIED BELOW
TM-2104	Reclaimed Water	Purple	44.9 kHz	CAUTION RECLAIMED WATER LINE BURIED BELOW

Technical Data

PROPERTY	TM-2000 REQUIREMENT	ENGINEERING NOTE
Tape width	6 in. (152 mm) minimum	Full-width visual warning layer
Nominal thickness	11 mil (0.28 mm) minimum	Controlled product requirement
Tape material	Polyethylene	Non-metallic warning tape substrate
Standard roll length	500 linear ft (152.4 m)	Standard production configuration
Construction	Single-layer warning tape with external protected passive marker assembly	
Tape elevation	1-3 ft below finished grade	Buried utility may be deeper
Alignment	Parallel to and centered over utility	Continuous installation preferred
Locator compatibility	3M Dynatel 7000 Series electronic marker locators	Select model-specific utility frequency

PRODUCT AND ENGINEERING REVIEW

Tape appearance, installation requirements, and locating procedure

TM-2000 Tape Products

Representative tape visuals for model identification. Approved production artwork and supplied product samples govern.

Installation Requirements

1. Confirm the correct model, color, warning legend, and utility frequency.

2. Install the utility and bedding in accordance with the project documents.

3. Backfill to the selected tape elevation and lay the tape flat, parallel to, and centered over the utility.

4. Install the tape 1-3 ft below finished grade. Do not stretch, twist, or kink the tape.

Electronic Locating Procedure

1. Select the frequency that corresponds to the installed TM-2000 model.

2. Sweep the expected utility alignment using the locator manufacturer's operating procedure.

3. Confirm repeated marker responses along the installed path.

4. Mark and document the identified alignment in accordance with owner procedures.

Engineering Review Summary

REVIEW ITEM	TM-2000 RESPONSE
Utility identification	Four model-specific products with controlled color, warning legend, and RF frequency.
Visual warning	6 in. minimum width, 11 mil minimum nominal thickness, polyethylene construction, and utility-specific printed legend.
Electronic path identification	Passive electronic marker assemblies located along the tape path; compatible with 3M Dynatel 7000 Series locators.
Installation orientation	Tape installed flat, parallel to, and centered above the buried utility at 1-3 ft below finished grade.

Technical Use Notice: The owner, engineer, contractor, and installer remain responsible for determining suitability for the intended application, complying with project specifications, following applicable safety practices, and operating compatible locating equipment correctly. Approval of this submittal does not waive contract requirements.

Manufacturer: TrenchMark | utility locating technology

Document: TM-SUB-002 | Revision 3 | 07/13/2026