



PUBLIC WORKS DEPARTMENT

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January 11, 2023

Ms. Cate Thompson, P.E.
Advanced Drainage Systems, Inc.
115 West Crown Point Road
Winter Garden, Florida 34787

**Subject: Orange County Approval for
12" – 60" Class II Polypropylene Pipe**

Dear Ms. Thompson:

This letter is to confirm that Orange County provides conditional use of the 12" – 60" Class II Polypropylene pipe (PP) as approved by FDOT for the following gravity flow storm drainage applications:

1. Class II PP may be approved for use on County-managed capital projects within the County's right-of-way including cross drains under arterial and collector roadways provided that the following criteria are met:
 - a. During the design of future capital projects on arterial and collector roadways, the County's consultant will analyze where it is appropriate to allow Class II PP pipe and will indicate those locations on the construction plans.
 - b. When the future capital projects are bid for construction, the sections of Class II PP indicated on the construction plans will be bid as an alternate along with reinforced concrete pipe (RCP). The County Engineer, or his/her designee, will determine which type of pipe will be accepted for each project on a case-by-case basis.
 - c. The Class II PP pipe provider will provide adequate training to the County's construction inspection staff ahead of the first installation of Class II PP pipe on a County arterial or collector roadway.
 - d. All criteria in section 2 are also met.

2. Class II PP is approved for use for both private and public subdivisions and commercial development on projects within Orange County provided that the following criteria is met:
 - a. Minimum and Maximum cover heights should follow the requirements set forth in the FDOT Drainage Manual, Appendix C. PP can be installed in deeper conditions once supporting calculations and documentation associated with this analysis are approved.

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Minimum Cover – From Top of Pipe	
Location	Minimum Cover (feet)
Unpaved areas	1'
Under Pavement	2' from bottom of flexible pavement 2' from top of rigid pavement
Maximum Cover – From Top of Pipe	
Pipe Size	Maximum Cover (feet)
12"	21'
15"	22'
18"	19'
24"	16'
30"	19'
36"	16'
42"	15'
48"	15'
60"	16'

- b. PP pipe is required to be installed with an RCP end section.
- c. PP pipe in Wall Zone installations should follow the requirements set forth in the FDOT Drainage Manual Section 3.11, Appendix D and in the latest version of FDOT Standard Specifications, section 430-4.1.
- d. FDOT's pipe repair matrix should be used as guidance for any repairs.
- e. PP pipe must be produced from a FDOT approved production facility.
- f. Class I PP is not accepted for use within Orange County.
- g. PP pipe cannot be connected to existing RCP or dissimilar pipe. New connections can be made at boxes.
- h. Testing and video documentation of the pipe must follow FDOT standards.

If you need any additional information, please feel free to contact our office at (407) 836-7972.

Sincerely,



Diana M. Almodovar
Deputy Director and County Engineer

DMA/jo

cc: Joseph C. Kunkel, P.E., Director, Public Works Department
Brett W. Blackadar, P.E., Deputy Director, Public Works Department
Dale V. Mudrak, P.E., Manager, Development Engineering Division
Kenneth J. Leeming, P.E., Manager, Highway Construction Division