

Effective Date: 01/03/2020	Distribution Mains Developer Installed Conduit for Plastic Pipelines	Standard Number: GS 3010.074(IN)
Supersedes: N/A		Page 1 of 3

Companies Affected:

<input checked="" type="checkbox"/> NIPSCO	<input type="checkbox"/> CVA	<input type="checkbox"/> CMD
	<input type="checkbox"/> CKY	<input type="checkbox"/> COH
	<input type="checkbox"/> CMA	<input type="checkbox"/> CPA

REFERENCE NIPSCO Electric Standard ER 18-500

1. GENERAL

All conduits for natural gas plastic pipelines shall meet the following requirements.

- a. All conduits shall be PVC, Schedule 40 smooth ID and non-perforated (gray PVC shall not be used as conduit for gas pipelines).
- b. All conduits shall be supplied and installed by the developer with a gas warning tape attached to the top of the conduit.
- c. All conduit joints shall be joined by a method that will prevent debris from entering and miss alignment or separation of the conduit joints (e.g., coupling, bell joint.)
- d. All conduit installations and crossing locations are subject to the approval of the Local Operating Area, Engineering Departments. Prior to backfill, all buried casings and conduits shall be visually confirmed by NIPSCO local field supervisor or engineer to not have caused any damages to any other underground facilities per GS 1100.050(IN) "Damage Prevention-Using Trenchless Technology." Any conduit or casing that cannot be positively confirmed to be open cut or to have not damaged any other facilities shall follow the process outlined in GS 1100.050(IN).
- e. Service line conduits shall terminate no closer than ten (10) feet from building foundations.
- f. A minimum of 36 inches and a maximum of 48 inches, or depth specified by Engineering, of cover shall be maintained above all conduits. In gas and electric combination installations, all conduits shall be installed horizontally in a joint trench with a 12 inch separation between electric and gas conduits (See Figure 1).
- g. All conduits at time of installation shall extend a minimum of five (5) feet beyond the road edge and 2" x 4" studs shall be used to mark conduits at each end of crossing (See Figure 2). The 2" x 4" markers shall be within one (1) foot horizontally from the end of the conduit. The 2" x 4" markers shall extend a minimum of 36 inches above final grade and be clearly identified as to communicate proposed conduit use. The end of the conduit may be cut back at time of pipeline installation if needed.

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- h. All conduits shall be temporarily sealed at both ends as to prevent infiltration and blockage of conduits. Warning tape ends should be inserted into the conduit ends prior to temporarily sealing.
- i. All conduits shall be sized as follows; however, consult with Engineering prior to installation as larger sizes may be required, and are subject to the approval of Local Operating Area, Engineering Departments.
 - 1. Electric Primary.....3” min
 - 2. Electric Secondary or Service.....3” min
 - 3. Gas Main.....4” min
 - 4. Gas Service.....2” min

The gas pipeline shall be installed and the conduit ends sealed by qualified NIPSCO employees or contractors in accordance with the applicable Gas Standards (e.g., GS 3010.06(IN) “Installation of Plastic Pipe”, GS 3010.070 “Casing” or GS 3020.010(IN) “Service Line Installation”).

On either side of the road crossing normal trenching methods shall be followed. Refer to the following Gas Standards as applicable.

- a. GS 3010.050(IN) “Installation of Pipe in a Ditch”
- b. GS 3010.052(IN) “Joint Trench Installation”
- c. GS 3010.060 “Installation of Plastic Pipe” or
- d. GS 3020.010(IN) “Service Line Installation”.

2. RECORDS

All conduit shall be recorded with the construction project and mapped in the Company’s system of record indicating the following details.

- a. Diameter of the conduit.
- b. Material type of the conduit.
- c. Length of the conduit.
- d. Diameter of the carrier pipe inside the conduit.
- e. The material type of the carrier pipe inside the conduit.

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TYPICAL INSTALLATION:

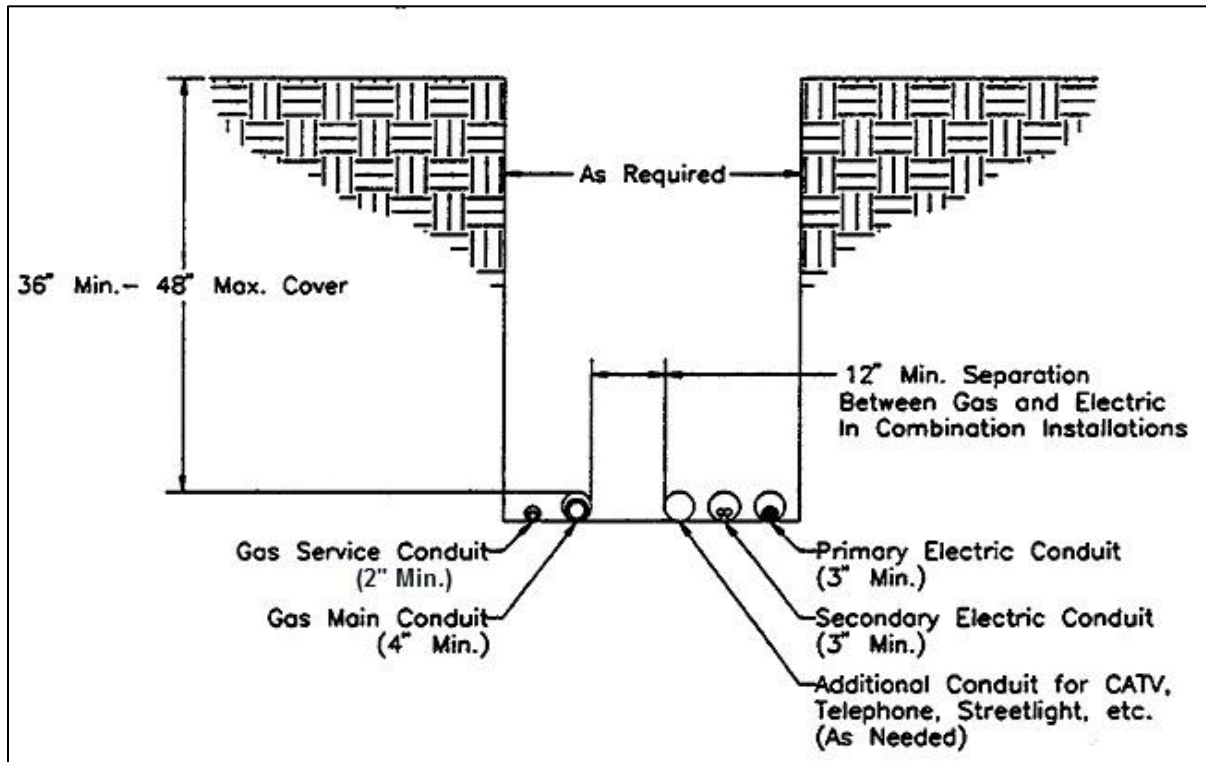


FIGURE 1

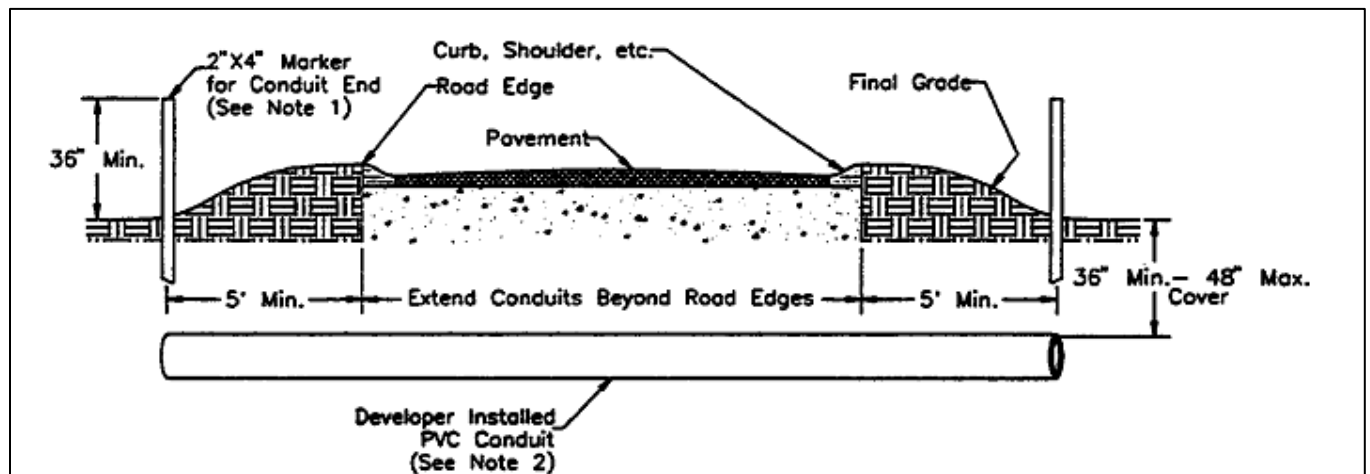


FIGURE 2

NOTES:

1. 2" x 4" markers shall be installed in a manner to prevent easy removal.
2. All conduits shall be PVC, schedule 40.