

SECTION 26 42 00 {13110}

CATHODIC PROTECTION

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This section includes passive cathodic protection to buried metallic utility piping, buried metal structures, and buried metal tanks using sacrificial galvanic anodes.

This section includes provision for work performed using unit price payment method, when applicable.

Manufacturers listed in this section were identified as representative and not as an endorsement for meeting this specification. For additional product information, visit 4Specs at www.4specs.com, ARCAT at www.arcacat.com, First Source at www.reedfirstsource.com, SpecSource at www.specsource.com, and Sweets Network at products.construction.com.

This section includes performance, proprietary, and descriptive type specifications. Edit to avoid conflicting requirements.

Contact the CSRF Support Center at supportcenter@csrf.org to submit comments or suggestions for improvements to this specification. Visit the SPECTEXT web site at www.spectext.com for current product announcements.

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes anodes and attachment to buried metallic components [and buried tanks].
- B. Related Sections:
 - 1. Section 26 05 19 - Low-Voltage Electrical Power Conductors and Cables.
 - 2. Section 26 05 33 - Raceway and Boxes for Electrical Systems.
 - 3. Section 31 23 16 - Excavation.
 - 4. Section 31 23 17 - Trenching.
 - 5. Section 31 23 23 - Fill.
 - 6. Section [____-_____]: Metal conduit requiring cathodic protection.
 - 7. Section [____-_____]: Buried metal structures requiring cathodic protection.
 - 8. Section [____-_____]: Metal pipe requiring cathodic protection.
 - 9. Section [____-_____]: Metal tanks requiring cathodic protection.
- C. Related Sections:
 - 1. Section 02315 - Excavation and Fill.
 - 2. Section 02320 - Backfill.
 - 3. Section 02324 - Trenching.
 - 4. Section [____-_____]: Metal pipe requiring cathodic protection.
 - 5. Section [____-_____]: Metal tanks requiring cathodic protection.

6. Section [____ - _____]: Buried metal structures requiring cathodic protection.
7. Section [____ - _____]: Metal conduit requiring cathodic protection.
8. Section 16123 - Building Wire and Cable.
9. Section 16128 - Raceway and Boxes for Electrical Systems.

1.2 UNIT PRICE - MEASUREMENT AND PAYMENT

Use this article ONLY when work of this section is performed under unit price payment method. Delete this article when payment is by Stipulated Sum/Price.

- A. Anodes:
 1. Basis of Measurement: Each.
 2. Basis of Payment: Includes placement of anode, attachment to components, wiring to test station, minor backfilling associated with this work.
- B. Test Stations:
 1. Basis of Measurement: Each.
 2. Basis of Payment: Includes placement of test station, attachment of components, wiring to anodes, minor backfilling associated with this work.

1.3 REFERENCES

List reference standards included within text of this section. Edit the following for Project conditions.

- A. ASTM International:
 1. ASTM B418 - Standard Specification for Cast and Wrought Galvanic Zinc Anodes.
- B. National Electrical Manufacturers Association:
 1. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum).

1.4 PERFORMANCE REQUIREMENTS

Use this article carefully; restrict statements to identify system performance requirements or function criteria only.

- A. Iron and Steel Components:
 1. Negative voltage of [0.85] [_____] volts measured between component and saturated reference electrode contacting earth near component.
 2. Negative voltage shift of [300] [_____] millivolts measured between component and saturated reference electrode contacting earth near component.
 3. Polarization voltage shift of [100] [_____] millivolts measured between component and saturated reference electrode contacting earth near component.