

206-R-694 STRUCTURE EXCAVATION

(Revised 12-19-19)

The Standard Specifications are revised as follows:

SECTION 206, BEGIN LINE 160, DELETE AND INSERT AS FOLLOWS:

~~Before foundations that do not require piling are poured, sufficient test borings shall be made to determine the character of the underlying material for a depth of at least 5 ft below the bottom of the footing. Also, before pilings are driven in foundations requiring piling, sufficient soundings shall be made to determine the character of the underlying material for a depth of 10 ft below the bottom of the footing.~~

Rock at the bottom of spread footings shall be proof-tested. *For state-administered contracts, the Department's Office of Geotechnical Services shall be contacted prior to proof-testing. For local public agency contracts, the Engineer shall be contacted prior to proof-testing.* ~~Exploratory holes~~ Proof-testing with a small diameter test hole of a minimum 2 in. inside diameter shall be drilled into the foundation base using rotary or percussive drilling methods. Holes shall be drilled into sound rock to a depth of 5 ft or as directed. Three holes shall be drilled into each foundation base. Observations shall be made at each hole as follows:

1. speed of drilling
2. drill pressure
3. dropping or clogging of drill bit
4. loss of drill water, if used
5. probing of the sides of the holes with a right angled chisel point. The chisel shall be formed from a rod of 3/8 or 1/2 in. diameter
6. continuity of bearing material
7. *rock quality designation in accordance with ASTM D 6032*
8. *photos shall be taken of the rock core and the sidewall of the borehole from which core has been extracted.*

A professional engineer shall supervise the proof-testing work. A report for each hole shall be prepared and submitted to the Engineer for review and approval.

SECTION 206, BEGIN LINE 249, DELETE AS FOLLOWS:

~~Additional excavation required for a culvert when the culvert is placed at an elevation that is at least 1 ft below the elevation shown on the plans shall be measured to include the entire width needed to comply with OSHA or IOSHA requirements.~~

SECTION 206, BEGIN LINE 272, DELETE AND INSERT AS FOLLOWS:

If class X excavation is encountered at locations other than sign foundations, traffic signal foundations, and highway illumination foundations, and there is no contract unit price for class X excavation, payment will be made at a unit price per cubic yard as follows:

1. \$1,000.00 per cu yd if the quantity of class X excavation is less than or equal to 1 cubic yard per foundation.
2. When the quantity of class X excavation is greater than 1 cubic yard per foundation, payment will be made at the lesser of four times the contract unit price for wet excavation or 10 times the contract unit price for dry excavation \$1,000.00 per cu yd for the quantity up to 1 cubic yard. The quantity in excess of 1 cubic yard, payment will be made at \$125.00 per cu yd.

If class X excavation is encountered at locations for sign foundations, traffic signal foundations, highway illumination, and ITS foundations and there is no contract unit price for class X excavation, payment will be made as follows:

1. \$500.00 if the quantity of class X excavation is less than or equal to 1 cubic yard per foundation.
2. \$500.00 per cu yd for all quantities over 1 cubic yard.

In addition to the payment for class X excavation at sign foundations, traffic signal foundations, highway illumination, and ITS foundations when there is no contract unit price for class X excavation, a mobilization and demobilization payment for class X excavation will be paid in the amount of \$1,500.00 per occurrence. Multiple mobilization and demobilization payments will be paid if all project foundation locations are not made available in a reasonable time frame while the equipment is on the project. The cost of this work will be included in a change order developed in accordance with 109.05 and paid as class X excavation and a mobilization and demobilization for class X excavation.

If class X excavation is encountered in foundation excavation unclassified and there is no pay item shown in the Schedule of Pay Items, payment will be made at eight times the contract unit price per cubic yard for foundation excavation unclassified.

SECTION 206, BEGIN LINE 388, DELETE AND INSERT AS FOLLOWS:

(a) Culverts

This requirement will not include pipe culverts. Except as otherwise provided herein, Excavation for culverts will not be paid for directly. The cost thereof shall be included in the cost of the class of concrete used thereinstucture or structure extension. The cost of all necessary removal and satisfactory disposal of all or part of the existing old structure unless its removal is otherwise provided for, cleaning out an old channel or constructing a new channel within the right-of-way limits and widening it to the grade of the existing or proposed new stream bed as shown on the plans or as directed, construction of all necessary curbs and cofferdams and their subsequent removal, subsoil borings or soundings below bottom of footings, dewatering, disposal of excavated materials, and all labor, equipment, tools, and necessary incidentals shall be included in the cost of this work.

If a culvert is lowered, or relocated or material of such nature is encountered that additional excavation is necessary over and above that required at the originally planned location, the additional excavation will not be paid for if it is 10 cu yd or less. Additional excavation in excess of 10 cu yd will be paid for at three times the contract unit price for the class of excavation involved. However, if the culvert is placed at a depth that is equal to or greater than 1 ft deeper than the elevation shown on the plans, the additional excavation in excess of 10 cu yd will be paid at five times the contract unit price for the class of excavation involved at the direction of the Engineer, or material of such nature is encountered so that additional excavation is necessary, the additional excavation will not be paid for if it is 10 cubic yards or less. Additional excavation in excess of 10 cubic yards will be paid for at \$125.00 per cu yd. If the additional excavation in excess of 10 cubic yards is identified as class X excavation, and there is no pay item for class X excavation, the additional work will be paid for at \$125.00 per cu yd for the quantity in excess of 10 cubic yards, regardless of the depth the culvert is lowered.
