

FURNISH AND INSTALL SPLICE VAULT AND HANDHOLE

****From Hartford-Sharon FITS(503)**

- xx. DESCRIPTION. This work shall consist of placing one (1) 4' x 4' x 6' concrete splice vault and one (1) 4' x 6' x 3' Quazite style, or approved equal, handhole at each location indicated in the Plans.
- xx. GENERAL REQUIREMENTS. Site specific details to the required locations can be referenced in the Plans. The lids of both the splice vault and handhole shall be flush with the restored ground surface at finish grade. The splice vault will have 3" diameter knockouts or approved cores, as shown in the Contract Documents. The splice vault will have a live load rating of HS:20 and the handhole will have an ANSI 22 rated lid. Complete installation of the handhole setup will require all empty conduits to be plugged with the approved end plugs, all conduit penetrations to be sealed with the approved gap sealant, ½" wire mesh screen below the handholes, with a minimum depth of 8" of ¾" stone compacted atop a geotextile matting at the bottom of the excavated trench, and the restoration of all excavated soils in the area.
- xx. MATERIALS. The Contractor is required to submit material specification sheets for all materials used, for approval by the Engineer.

The 4' x 6' x 3' handholes installed shall meet or exceed the following requirements:

- (a) The handhole shall be Quazite, or an approved equal.
- (b) The handhole must be UL listed and approved.
- (c) Suitable for off-roadway applications.
- (d) Must meet or exceed the ANSI tier classification of "Tier 22" vertical and horizontal load ratings.
- (e) Internal dimensions: 4 feet in width, 6 feet in length, and 3 feet deep.
- (f) Shall have an open bottom.
- (g) Shall incorporate support and strength members for the lid.
- (h) Shall include lift assisting attachments for ease of installation.
- (i) Shall include two (2) 6" x 8" cut outs for conduit penetrations ingress and egress. Conduit cutouts shall be cut by the manufacturer.
- (j) The handhole lid shall have a "FIBER OPTICS" identification.
- (k) The handhole lid must meet or exceed the ANSI tier classification of "Tier 22" vertical and horizontal load ratings.
- (l) The handhole lid shall be constructed from the same material as the handhole body casting.

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- (m) The handhole lid shall include a minimum of two lift assisting pull slots.

The 4' x 4' x 6' splice vault installed shall meet or exceed the following requirements:

- (a) Shall be manufactured by AC Miller, or an approved equal.
 - (b) Shall have internal dimensions of 4' x 4' x 6'.
 - (c) Shall be constructed of 5000 psi (at 28 days) reinforced concrete.
 - (d) Shall have a minimum 6" wall thickness.
 - (e) Shall be reinforced with Grade 60 rebar.
 - (f) Shall conform to ASTM C 890 and C 913 specifications.
 - (g) Shall contain (2) 3" core holes or penetrations at 18" from the bottom of the handhole, including the depth of the splice vault floor. Penetrations shall be completed by the manufacturer and not in field.
- xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Furnish and Install Splice Vault and Handhole) to be measured for payment will be the number of splice vault setups installed in the complete and accepted work.
- xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Furnish and Install Splice Vault and Handhole) will be paid for at the Contract unit price per each. Payment will be full compensation for performing the work specified and for furnishing all materials, labor, tools, equipment, and incidentals necessary to complete the work. Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.620 Special Provision (Furnish and Install Splice Vault and Handhole)	Each