# SECTION 02030 – SUPPLEMENTARY CEMENTITIOUS MATERIALS

***(Follow all instructions and make all edits with "Track Changes" turned on. If there are no instructions [purple text] above a subsection, paragraph, sentence, or bullet, then include it in the Project. Delete all purple text before preparing the final document. All other modifications to this Section will require ODOT Technical Resource and State Specifications Engineer approval.)***

Comply with Section 02030 of the Standard Specifications modified as follows:

**02030.10 Fly Ash** - Replace this subsection, except for the subsection number and title, with the following:

Furnish Class C and Class F fly ash from the QPL and according to AASHTO M 295 (ASTM C618).

**002030.15 Natural Pozzolans** - Replace this subsection, except for the subsection number and title, with the following:

Furnish Class N natural pozzolans from the QPL and according to AASHTO M 295 or ASTM C1945.

**02030.20 Silica F~~l~~ume** - Replace this subsection, except for the subsection number and title, with the following:

Furnish silica fume from the QPL and according to the following:

**(a) Types** - Furnish the silica fume as a slurry containing silica fume, water, and a high range water reducer, or as a densified powder. Ensure the silica fume portion conforms to AASHTO M 307. Allowed total alkalis, as equivalent Sodium Oxide ($Na_2O$), is 1.5 percent maximum.

**(b) Acceptance** - Silica fume is accepted for immediate use if accompanied by a test results certificate according to 00165.35. If the silica fume is supplied as a slurry, indicate on the certificate the silica fume content of the slurry as a percent by weight. If the silica fume is supplied as a densified powder, do not allow the packaging to enter the concrete mixture.

**002030.40 Ground Granulated Blast Furnace Slag (GGBFS)** - Replace this subsection, except for the subsection number and title, with the following:

Furnish GGBFS from the QPL and according to AASHTO M 302.

**002030.50 High Reactivity Pozzolans** - Replace this subsection, except for the subsection number and title, with the following:

Furnish high-reactivity pozzolans from the QPL and according to AASHTO M 321.

Add the following subsection:

**02030.55 Ground Glass Pozzolan** - Furnish ground glass pozzolans meeting the requirements of ASTM C1866 Type GS.