

CONSTRUCTION AND MATERIAL SPECIFICATIONS

GENERAL. The construction and material specifications to be used on this project are the Construction and Material Specifications of Lancaster Sections 800 and 900 included herewith, and Sections 200 through 700, inclusive of the "State of Ohio, Department of Transportation Construction and Material Specifications" (ODOT CMS) dated January 1, 2013 together with such State supplements and modifications thereto as applicable and amended as follows:

All references to the Director, the Director of Highways, the First Assistant Director and Chief Engineer, the Deputy Director of Design and Construction, the Deputy Director of Operations the Engineer of Construction, the Engineer of Maintenance, the Engineer of Bridges, or the Engineer of Tests shall be considered to read the Fairfield County Engineer. References, if any to the state, the State of Ohio, the Department, the Department of Highways, or the Highway Department shall be considered to read the City of Lancaster, Ohio.

Modifications to ODOT CMS and additional specifications are given below. These specifications are intended to be complements and supplements to the ODOT CMS and are not intended to supplant or replace the ODOT CMS. Should any conflict arise, however, the provisions of these additional specifications shall govern.

The Contractor shall have a copy of ODOT CMS on the job at all times.

CMSL means the Construction and Material Specification of Lancaster as issued by the City Engineer and current at the date of the contract.

IN ADDITION TO THE WORK DESCRIBED IN ODOT CMS UNDER THE FOLLOWING ITEMS, THE FOLLOWING ADDITIONAL WORK SHALL BECOME PART OF THE REQUIRED WORK AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE CITY.

ODOT CMS 202 REMOVAL OF STRUCTURES AND OBSTRUCTIONS

The following exceptions and additions shall be a part of ODOT CMS Item 202:

All frames and castings removed as part of the manhole, catch basin or combined inlet removal item shall be stored on site ready for pickup by the City of Lancaster forces.

All sections of limestone curbing removed shall be carefully stored on the site ready for pickup by City of Lancaster forces.

ODOT CMS ITEM 203 ROADWAY EXCAVATION AND EMBANKMENT

It shall be the responsibility of the contractor to perform all compaction tests according to Supplement 1015, or as required by the City Engineer. Tests shall be performed by competent personnel and with equipment made for the purposes intended and kept in good repair and working order. When, in the judgement of the City Engineer that the personnel performing the tests are not competent to do so or the equipment provided is not adequate, then the City Engineer may order, at his sole discretion, that a certified soils testing laboratory perform tests and provide test reports to establish that the material and work conform with Item 203.

ODOT CMS ITEM 403 ASPHALT CONCRETE QUALITY CONTROL AND ACCEPTANCE

In addition to the other requirements of this specification, the contractor shall provide the Engineer with certifications the Ohio Department of Transportation has accepted the contractor's means and methods used on this project for the various requirements for controlling the asphalt concrete, asphalt concrete

base, or other asphalt mixtures as specified in accordance with ODOT's Verification Acceptance tests and monitoring reviews as specified.

ODOT CMS ITEM 407

The following exception shall be part of ODOT CMS, Item 407.

TACK COAT The tack material shall meet the requirements of AASHTO M 140 for SS-1.

ODOT CMS ITEM 608 CONCRETE WALK

The following exception shall be part of ODOT CMS, Item 608.

Concrete walk installed in the City's Downtown area shall conform to the colors and patterns established in the City's Downtown Design Manual.

ODOT CMS ITEM 611 PIPE CULVERTS, SEWERS AND DRAINS AND DRAINAGE STRUCTURES

ODOT CMS 2013 Item 611 shall not be used on City improvement projects for storm conduit or structures. ODOT CMS 2010 shall be used as follows:

Item 603 Pipe Culverts, Sewers, and Drains

Item 604 Manholes, Catch Basins, Inlets, Inspection Wells, Junction Chambers, Precast Reinforced Concrete Outlets, or Monuments

Materials for culverts, sewers and drains shall conform to the City's Pipe Policy unless otherwise specified in the Contract Drawings.

Backfill and bedding materials for pipe shall be limited to crushed limestone meeting the proper gradations for No. 57 or 67 stone.

ITEM 613 LOW STRENGTH MORTAR BACKFILL, As Per Plan

In addition to the mixes show in Table 613.03-1 under Section 613.03 Mix Proportioning, the City may specify the following alternate mixes:

The following alternate mix design conforming to 613.05 shall be used on this project where designated on the plans or by the Engineer.

MIX CODE	TYPE 185 XLSM 185	TYPE PF GR479BF
INGREDIENTS	Class I = 100 PSI Control Density	Class I ~ 500 PSI Exterior

Cement ASTM C150	185 lbs.	450 lbs.
Fly Ash Type F ASTM C618		275 lbs.
Natural Sand	2485 lbs.	2400 lbs.
Entrained Air	15 %	None %
Total Water	434 lbs.	525 lbs.
Maximum Slump	8.00 in.	Flowable Flow
Water/Cement Ratio	2.35	0.72

[5] The aggregate weights shown are for a saturated surface dry condition and will be adjusted for free moisture as necessary, to maintain proper yield.

[6] Enclosed are laboratory analysis of the aggregates and data required by ACI 301 for mix proportions.

[7] To monitor the performance of the concrete, provide laboratory reports involving its testing to the material supplier.

TYPE 185 shall be used at the Engineer's direction where a harder mix is deemed necessary.

TYPE PF shall be used to fill conduits abandoned in place.

ODOT CMS ITEM 624 MOBILIZATION

In addition to the requirements for Item 624 stated in the ODOT CMS, the following work shall be included in the lump sum price bid for Item 624, Mobilization

Before any work begins the Contractor shall thoroughly videotape the project area. The purpose of the videotaping is to establish a benchmark of the pre-construction condition of the project area, especially of the surrounding private property. In the event an adjoining property owner makes a claim for damages resulting from the performance of the Work, the videotape will be used to determine the legitimacy of the claim. The Contractor shall use due diligence in performing this operation to allow the person operating the recorder to add commentary as they are recorded. The Contractor shall submit one copy of each videotape of the project area to the Engineer at the pre-construction conference. The cost of labor, material and equipment necessary to videotape the project area shall be included in the lump sum bid *ITEM 624, MOBILIZATION*

The Contractor shall maintain on the project site one fully operational wireless telephone during his hours of operations. The telephone shall be capable of connection to the Lancaster telephone system operated by AT&T Ohio. The Contractor shall provide the engineer with that wireless telephone's number so as to allow the Engineer to contact him on the project site. The contractor shall all costs associated with the wireless telephone in the lump sum bid *ITEM 624, MOBILIZATION*

ODOT CMS ITEM 659 SEEDING AND MULCHING.

The following exception shall be part of ODOT CMS Item 659.

Where the seed mixture is not specified in the Construction Drawings or in the bid documents, then the seed mixture to be used shall be Class 1, Lawn Mixture per ODOT CMS Table 659.09-1.