

PROJECT SPECIFICATIONS

2025 PAVING PROJECTS

GRAND RAPIDS PUBLIC SCHOOLS KENT COUNTY, MICHIGAN

1. STANDARD CONSTRUCTION SPECIFICATIONS

Work under this Contract shall be completed in accordance with the General and Supplementary Conditions and the Project Specifications contained herein and include the following standard specifications contained herein: "Insurance Specifications", "Surface Restoration Specifications" and "Storm Sewer Specifications". Modifications and additions to these specifications are found on the following pages.

Where a standard construction method or contract procedure is not specifically covered by the Contract Documents or shown on the plans, the most recent edition of the Michigan Department of Transportation (MDOT) Standard Specifications for Construction shall apply. Specific references made in these documents will be abbreviated as follows: MDOT ###.##.

Such current specifications are hereby incorporated into these Contract Documents by specific reference. These project specifications are modifications and therefore supersede the above mentioned specifications.

2. GENERAL

Work to be constructed in this project includes parking lot paving, milling and resurfacing, pavement striping and appurtenant work.

The Contractor shall furnish adequate materials, equipment, labor, and supervision to complete this work, which also includes surface restoration and testing to conform to the standards of the specifications.

2.01 Scheduling

The Contractor shall file a construction schedule with the Engineer, Owner, and impacted utilities. This schedule shall be presented by the Contractor and reviewed at the preconstruction meeting for the project. The Owner and Engineer need to be provided with a minimum of three working days of notice; not

including weekends or holidays, of all driveway lane closures and/or driveway lane restrictions by the Contractor. The notice shall include the date upon which the closure/restriction will start and the expected date when the lane will open to traffic. These notices shall be in addition to the required construction schedule.

2.02 Maintenance

Where streets or driveways are partially obstructed, the contractor shall place and maintain temporary driveways, ramps, etc. which, in the opinion of the Engineer, are necessary to accommodate the public. Emergency vehicles shall have access at all times and shall be assisted by the Contractor if necessary. Near the end of each day's work, the Contractor shall remove obstructions that would make access difficult or impossible.

The Contractor shall inform the local police, ambulance service, and fire department in advance of his program of any street obstruction. Traffic must be maintained at all times.

2.03 Dust Control

All haul roads, detour roads, and other public and private roads (including backfilled trenches), driveways, and parking lots used by the Contractor must be maintained in a dust free condition during the duration of this Contract. All paved streets, driveways, and parking lots shall be swept daily to control the accumulation of dust and soil and to prevent the tracking of materials onto public and/or private streets, driveways, and parking lots. The control of dust shall be accomplished by the application of dust control materials by methods of application as approved and/or sweeping shall be applied as often as is necessary to control the dust or if directed to do so by the Owner's representative.

Cost of providing dust control shall be considered incidental to the project.

2.03 Material Haul Roads

Any spillage on public roadways used as haul routes shall be cleaned daily. Permission to use gravel roads shall be given to

Contractor only if Contractor assumes responsibility of maintenance, dust control and restoration of the gravel roads to the satisfaction of the Owner.

2.06 Protection of Natural Resources

The Contractor shall take all necessary steps to prevent damage to fish and game habitats and to preserve the natural resources of the State. Excavation and backfill shall be carried out so as to minimize discharge of damaging material into any stream, lake or reservoir.

The Contractor shall exercise caution in the discharge of waters from pumps, deep wells, or well point systems in order that such discharges do not cause erosion, siltation, soil depositions, etc., in sewers, streams or other water courses or drainage structures.

The Contractor shall not permit any sand or debris of any kind to enter the existing ditches, streams, storm sewers or culverts.

The rules and regulations of all work shall comply with Part 31 (Water Resources Protection), Part 301 (Inland Lakes and Streams Act), Part 91 (Soil Erosion), and Part 303 (Wetland Protection) of P.A. No. 451 (Natural Resources and Environmental Protections Act of 1994).

2.07 Soil Erosion and Sedimentation Control

All work shall comply with the rules and regulations of Part 91 of P.A. No. 451. Soil Erosion and Sedimentation Control Measures included in the "Excavating, Trenching and Backfilling for Utilities" Specification shows the minimum requirements for the construction of this project.

The Contractor shall provide all necessary measures to prevent erosion until surface restoration can be completed and approved. The Contractor shall stabilize any disturbed river or creek bank areas within 72 hours of completion of work within the river or creek bank area.

The Contractor shall apply for and obtain a Soil Erosion and Sedimentation Control permit from the City of Grand Rapids and pay for all necessary fees and obtain necessary bonds.

3. PERMITS

Prior to commencing construction of the Project, the following permits shall be obtained (if applicable) by the Grand Rapids Public Schools:

- a. Michigan Department of Environmental Quality (EGLE) Part 41 of Act 451 Construction Permit for Wastewater Systems
- b. EGLE Act 399 Construction Permit for Water Supply Systems
- c. EGLE Part 301 of Act 451 Permit for work within Inland Lakes and Streams
- d. EGLE Part 303 of Act 451 Permit for work within Wetlands
- e. Part 91 of Act 451 Soil Erosion and Sedimentation Control
- f. Part 31 of Act 451 Stormwater Discharge Permit
- g. EGLE Construction Permit for Operations within State Highway Right-of-Way

The Contractor shall be responsible for obtaining a permit for performing work within County Right-of-Ways, City Right-of-Ways, and MDOT Right-of-Ways.

4. COORDINATION

The contractor shall coordinate their work with utilities to assure that utility facilities are relocated in a manner that allows the contractor to meet the construction schedule. The contractor shall facilitate grade changes or other conditions for utilities as necessary for the utility to complete necessary relocations.

The Contractor shall coordinate their work with Grand Rapids Public School staff to accommodate events and other various operations. The Contractor shall coordinate all lane closures with other work that may occur on Grand Rapids Public Schools so that access is maintained at all times to all buildings and facilities.

5. STAKING

VK Civil will provide construction staking for this project. The Contractor shall give 72 hours' notice when requesting stakes. The Contractor shall exercise proper care in the preservation of all stakes set for his use or the use of the engineer and if such stakes are damaged, lost or removed by Contractor's operation, the cost of resetting may be charged to the contractor.

6. MEASUREMENT AND PAYMENT

Payment shall be made for the proposal items only. All of the work specified in the contract documents and indicated on the drawings shall be considered included in the unit prices shown on the proposal. The unit price bid for each

proposal item shall be payment in full for completing the work, ready for use as specified.

All construction shall be measured for payment by the Owners Representative in accordance with the items listed in the proposal and as may be more specifically directed below.

Clearing Brushing and Tree Removal – All costs for clearing, brushing, tree removal, tunneling, and preservation of trees shall be considered incidental to the major items of work unless specific items have been provided in the proposal. Where specific items have been provided in the proposal per tree size, trees will be measured at a point 4 ½' above the ground line at the base of the tree. Where more than one tree has grown from a common stump, each tree is measured as a separate tree.

Removal of Surface Improvements – All costs for removal of surface improvements shall be considered incidental to the major items of work unless specific items have been provided in the proposal.

Existing Underground Utilities and Structures – All costs for replacement, relocation, reconnection, removing and salvaging, shoring, bracing, or abandonment of existing utilities, structures, utility poles, and guy wires shall be considered incidental to the major items of work unless specific items have been provided in the proposal.

Subgrade – Contractor shall notify Engineer of any questionable material encountered and the Engineer shall determine if it is suitable. If the soil in the bottom of the trench is soft due to excessive amounts of groundwater, weather, and/or the Contractor's method of operation, stabilization of the trench bottom shall be at the Contractor's expense. Payment for removal and replacement of unstable organic material or naturally soft clay, or installation of special foundations, will be paid under the *Place 6" MDOT Class II Sand Subbase* pay item, unless specific items have been provided in the proposal.

Surface Restoration – All work necessary to return the area of construction operations to its original condition shall be considered incidental to the major items of work unless specific items have been provided in the proposal. Measurement for surface restoration shall be made in horizontal feet along the centerline of the improved driveway and shall include all disturbed areas incidental to the construction of the driveway unless specific items have been provided for in the proposal.

Disturbed areas shall be repaired as often as necessary in order to produce a close stand of weed free grass. Any additional costs for repeated repair of disturbed areas shall be borne by the contractor.

7. TRAFFIC MAINTENANCE/TRAFFIC CONTROL

a) General

This work shall be in accordance with the requirements of the Kent County Road Commission (KCRC) and/or the City of Grand Rapids.

The Contractor shall inform the local police, ambulance service, fire department and school systems in advance of planned closures.

The Contractor shall submit an approved signage plan prior to commencement of work and coordinate work within right-of-ways during construction with the KCRC and/or the City of Grand Rapids. All signage, lights and barricades shall comply with the Michigan Manual of Uniform Traffic Control Devices (the Manual) and shall include posted detours.

The Contractor shall maintain public access to all sites impacted by the project. Emergency vehicle access shall be maintained at all times.

b) Temporary Signs

All temporary construction signs in accordance with the applicable requirements of the Manual shall be in place prior to construction in any area.

c) Payment

Payment for traffic control, detours, signage, and permits shall be included in the contract lump sum price as stated in the proposal. No additional payment will be made for the other costs incurred without written approval by the Engineer.

8. EARTHWORK

Excess material shall be disposed of in an upland area designated by the Owner. The area used for the disposal of excess material shall first be stripped of topsoil; which shall be stock piled for restoration of the disposal area, and then excess material shall be placed, compacted as necessary to consolidate the excess soils, graded to conform to the grades in the vicinity and as directed by the engineer, temporary and permanent soil erosion and sedimentation control measures shall be in place and final restoration of the excess material shall be completed and shall include seeding with a class A seed mixture and if necessary based on final slopes mulch blanket. No area shall be graded with greater than 1:4 slopes.

Payment for all earthwork, fill, and other related items is included in the major items of work, unless otherwise specified under a different pay item.

9. ROAD MATERIAL REMOVAL AND DISPOSAL

The Contractor shall remove, and responsibly dispose of all existing asphalt material off-site. The costs associated with removal of these materials and all other excess materials is considered incidental to the pay item for *Remove and Dispose of HMA and Gravel* or *Remove and Dispose of Full Depth Pavement*.

10. CONCRETE WALK CONSTRUCTION

10.01 Grade

VK Civil will stake the grades of the walk. Unless otherwise noted on the plan, the walk shall be constructed to be within 6 inches of existing grade. Where minor cuts and fills are shown on the plans, the specified cuts or fills are intended to indicate the amount of cut or fill necessary at the center of the sidewalk to bring the existing grade within 6 inches of the proposed sidewalk grade as determined in the field (i.e. if fill of 1 foot is specified on the plans, the proposed center of the sidewalk may be as much as 1' – 6" above the existing grade at the center of the sidewalk). The sidewalk will have a 1.5% - 2% transverse slope to maintain existing drainage patterns. The cost to make all minor cuts and fills required to construct the sidewalk shall be included in the bid price for concrete walk. Major fill areas are paid for separately under a separate pay item. Fill areas shall be considered minor unless associated under a separate pay item.

10.02 Sub-base Preparation

Existing vegetation shall be removed and organic material excavated to provide an eight (8) inch minimum sand sub-base for the proposed walk. The existing sand sub-base shall be compacted to ninety-five (95%) percent maximum unit weight in accordance with MDOT procedures. Where fill sand is required it shall be compacted to achieve ninety-five (95%) percent maximum unit weight in accordance with MDOT procedures. The cost to prepare and provide the eight (8") inch sand subbase shall be included in the unit price bid for Place Thick Edge Concrete Walk.

10.03 Concrete

Concrete shall meet the requirements for Grade P1 or S2 Concrete as specified in Sections 601 and 701 of the MDOT 2020 Standard Specifications for Construction and shall have limestone aggregate. Other material shall meet the requirements of the applicable portions of the MDOT 2020 Standard Specifications for Construction. All concrete sidewalks shall be paved with a single course of concrete. Sidewalk and concrete driveways shall be placed in accordance with Sections 801 and 803 of the MDOT 2020 Standard Specifications for Construction.

Sidewalks through driveways shall be six (6") inches thick extending a minimum of 5' on either side of the driveway. All other walks shall be four (4") inches thick. Unless otherwise specified, saw cuts and removal of existing sidewalk shall be considered incidental to the major items of work.

10.04 Joints

Full depth transverse expansion joints shall be constructed perpendicular to the surface of the walk at intervals not to exceed fifty (50') feet.

Expansion joint material shall be one-half (1/2") inch pre-molded expansion joints and shall be set 1/4" below the surface of the sidewalk.

Sealing of joints will not be required.

One (1") inch pre-molded expansion joints must be placed between the sidewalk and back-of-curb when walk is constructed between the curb and building or other rigid structures. Sealing of joints will not be required.

Transverse plane of weakness joints shall be true to line and grade, and shall be placed at five (5') foot intervals and shall be formed with a grooving tool. Planes of weakness joints shall be constructed to a depth of at least one (1") inch and a width of 1/8 inch to 1/4 inch. Sealing of joints will not be required.

10.05 Longitudinal and Transverse Grades

Walk transverse grades shall be between 1.5% and 2.0%. In no circumstance may transverse grades exceed 2.0%. Longitudinal grades shall be 5.0% maximum unless directed by engineer and must meet ADA requirements.

10.06 Surface

The surface of the concrete shall be floated to a level uniform surface and left with a slightly rounded surface. The surface shall be roughened with mechanic's brush to prevent smooth and slippery surfaces. No surface shall be troweled to a glassy finish. Edges at the forms and joints shall be rounded with an edging tool.

11. COMPLETION DATE

The project may not begin any earlier than June 6, 2025. The project shall be substantially complete by August 1, 2025 with final completion, including final restoration, by August 13, 2025.

12. BENCH

The bench shall be manufactured by Wausau Tile and shall be the Medium Fiord Seat, product ZB.FI.02 or approved equivalent.

13. PLANTER

The planter shall be manufactured by Wausau Tile and shall be the Small Fiord Planter, product ZB.FI.05, or approved equivalent.

14. TREE PLANTING

Tree placement and landscape planting methods shall be in accordance with Sections 815 of the MDOT 2020 Standard Specifications for Construction. All site preparation, watering and cultivating shall be included in the price of placing each landscape item. Watering and cultivating shall be the responsibility of the contractor for only the first growing season.

15. LIGHTING

Lighting shall be Lithonia Lighting DSX Series luminaire per the plans. The price for Place Light Pole shall include all wiring, connections to existing circuits, poles and concrete bases needed. The price for Remove and Replace Fixture Head shall include all items necessary, including wiring and mounting to remove the existing lighting heads from the existing poles and replace the fixture head with the new Lithonia Lighting DSX Series luminaire.

16. COLORED CONCRETE

Colored concrete called out on the plan at the Innovation High Entry areas shall be Color-crete Dark Gray and Sandstone colors or approved equivalent. The areas of color shall include no more than 25 square yards of colored concrete.