

**GENERAL INFORMATION**

Starting on page 1 is a list of pay items that allow the use of decimals in final project quantities.

Starting on page 2 is a list of the last three digits (YYY) of non-standard pay items and units that will be used in the 2012 pay items.

Starting on page 3 is a list of units and abbreviations that will be used in the 2012 pay items.

Also starting on page 3 is a list of descriptions and abbreviations that will be used in the 2012 pay item.

If errors or omissions are discovered in this document, please contact the Specifications and Estimates Unit of the Design Division at 517- 335-1901.

**PAY ITEM DESCRIPTIONS**

The pay item descriptions are worded to make the first word of the description the most important, descriptive word in the description. Numbers describing class, type, weight, size, etc., will usually appear near the end of the description.

**NON-STANDARD PAY ITEMS**

Pay items that are not covered in the 2012 Standard Specifications for Construction Book will be identified by an "SP Code" in the column titled "SP Required". When these items are called for in the Schedule of Items in the proposal, there will be a Special Provision or Supplemental Specification included in the proposal describing the work involved, the method and unit of measure, and the basis of payment.

MDOT uses the AASHTO estimating and bid letting software package, Trns-port. Within Trns-port, pay item numbers for unique (non-standard) pay items should not have a standard pay item number.

Unique pay item numbers depend on the pay units. Unique pay item numbers will be assigned to each section of the 2012 Standard Specification for Construction Book for each pay unit that is likely to be used in that section.

**USE OF DECIMALS IN FINAL PROJECT QUANTITIES**

Most pay items require quantities to be rounded up to the nearest whole number. Exceptions to this rule usually involve very large pay units. The easiest way to do this is to adjust the quantity on one plan sheet so as to make the total for the project a whole number. The list below includes those exceptions (pay items) that are allowed to have decimals out to two places only.

| <b><u>ITEM</u></b> | <b><u>UNIT</u></b> | <b><u>DESCRIPTION</u></b>    |
|--------------------|--------------------|------------------------------|
| 2010001            | Acre               | Clearing                     |
| 2010005            | Acre               | Thinning, Selective, Type I  |
| 2010006            | Acre               | Thinning, Selective, Type II |
| 2070002            | Acre               | Obliterate Old Road          |

MICHIGAN DEPARTMENT OF TRANSPORTATION  
Pay Item Information

11/2/2016

| <u>ITEM</u> | <u>UNIT</u> | <u>DESCRIPTION</u>                  |
|-------------|-------------|-------------------------------------|
| 8160095     | Acre        | Weed Control                        |
| 8170000     | Acre        | Mowing                              |
| 5020003     | Lnmi        | Overband Crack Fill, Lane           |
| 5020004     | Lnmi        | Overband Crack Fill, Ramp           |
| 5020005     | Lnmi        | HMA Crack Treatment, Lane           |
| 5020006     | Lnmi        | HMA Crack Treatment, Ramp           |
| 5020027     | Lnmi        | HMA Crack Treatment, Lane, Warranty |
| 5020028     | Lnmi        | HMA Crack Treatment, Ramp, Warranty |

The following format will be used in the 2012 pay items to designate unique miscellaneous pay items:

| <u>ITEM</u> | <u>UNIT</u> | <u>DESCRIPTION</u> |
|-------------|-------------|--------------------|
| "XXX7YYY"   | "Unit"      | "_____"            |

"XXX" designates the section of the 2012 Standard Specifications for Construction Book.

"7" designates that the pay item number is a unique miscellaneous pay item.

"YYY" is a number designated to the pay unit.

"Unit" is the unit of measurement and payment.

"\_\_\_\_\_" is the pay item description.

The following is a list of the last three digits (YYY) of the unique miscellaneous pay item numbers and their pay units that will be used throughout the 2012 pay items.

| <u>YYY</u> | <u>UNIT</u>         |
|------------|---------------------|
| 001        | Foot                |
| 002        | Station             |
| 003        | Mile                |
| 004        | Lane Mile           |
| 005        | Roadbed Mile        |
| 007        | Inch                |
| 008        | Square Inch         |
| 010        | Square Foot         |
| 011        | Square Yard         |
| 012        | Acre                |
| 020        | Cubic Foot          |
| 021        | Cubic Yard          |
| 022        | Gallon              |
| 023        | Thousand Board Foot |
| 030        | Pound               |
| 031        | Ton                 |
| 040        | Hour                |
| 041        | Calendar Day        |

MICHIGAN DEPARTMENT OF TRANSPORTATION  
Pay Item Information

11/2/2016

| <u>YYY</u> | <u>UNIT</u>  |
|------------|--------------|
| 042        | Work Day     |
| 043        | Month        |
| 044        | Week         |
| 050        | Each         |
| 051        | Lump Sum     |
| 052        | Unit         |
| 054        | Intersection |
| 055        | Set          |
| 060        | Dollar       |

For example: Pay item number 8027001 would be a miscellaneous item in Section 802, Concrete Curb, Gutter, and Dividers, with a unit of measure of a Foot.

The following is a list of the units and abbreviations that will be used in the 2012 pay items:

| <u>UNIT</u>         | <u>ABBREVIATION</u> |
|---------------------|---------------------|
| Acre                | Acre                |
| Calendar Day        | Cday                |
| Cubic Foot          | Cft                 |
| Cubic Yard          | Cyd                 |
| Dollar              | Dlr                 |
| Each                | Ea                  |
| Foot                | Ft                  |
| Gallon              | Gal                 |
| Hour                | Hr                  |
| Inch                | Inch                |
| Intersection        | Intr                |
| Lane Mile           | Lnmi                |
| Lump Sum            | LSUM                |
| Mile                | Mi                  |
| Month               | Mo                  |
| Pound               | Lb                  |
| Set                 | Set                 |
| Square Foot         | Sft                 |
| Square Inch         | Sin                 |
| Square Yard         | Syd                 |
| Station             | Sta                 |
| Thousand Board Foot | MBM                 |
| Ton                 | Ton                 |
| Unit                | Unit                |
| Week                | Wk                  |
| Work Day            | Wday                |

The following is a list of descriptions and abbreviations that will be used in the 2012 pay items:

| <u>DESCRIPTION</u> | <u>ABBREVIATION</u> |
|--------------------|---------------------|
| Additional         | Add                 |
| Adjust             | Adj                 |

MICHIGAN DEPARTMENT OF TRANSPORTATION  
Pay Item Information

11/2/2016

| <b><u>DESCRIPTION</u></b>           | <b><u>ABBREVIATION</u></b> |
|-------------------------------------|----------------------------|
| Aluminum                            | Alum                       |
| Aluminum Conductor Steel Reinforced | ACSR                       |
| American Telephone & Telegraph      | AT&T                       |
| Ampere                              | AMP                        |
| Anchorage                           | Anch                       |
| and Lots                            | & Lots                     |
| Carbon Fiber Composite Cable        | CFCC                       |
| Category                            | Cat                        |
| Compacted in Place                  | CIP                        |
| Class                               | Cl                         |
| Combination                         | Comb                       |
| Communication                       | Commun                     |
| Concrete                            | Conc                       |
| Conductor                           | /C                         |
| Container                           | cont                       |
| Corrugated                          | Corr                       |
| Corrugated Steel Pipe               | CSP                        |
| Course                              | Cse                        |
| Culvert                             | Culv                       |
| Detail                              | Det                        |
| Diameter                            | dia                        |
| Direct Burial                       | DB                         |
| Dismantle                           | Disman                     |
| Drainage                            | Dr                         |
| Ductile Iron                        | DI                         |
| Electrical                          | Elec                       |
| Elliptical                          | Ellip                      |
| Environmental Sensor Station        | ESS                        |
| Experimental Polyaspartic System    | ExPAS                      |
| Fabricate                           | Fab                        |
| Figure                              | Fig                        |
| Flashing                            | Flsh                       |
| Foundation                          | Fdn                        |
| Fourth                              | 4th                        |
| Furnish(ed)                         | Furn                       |
| Galvanize                           | Galv                       |
| Handhole                            | Hh                         |
| Hazardous                           | Haz                        |
| High-Bred Poplar                    | HBP                        |
| High Density Polyethylene           | HDPE                       |
| High Performance                    | HP                         |
| Hot Mixed Asphalt                   | HMA                        |
| Intelligent Transportation System   | ITS                        |
| Interconnect                        | Intercn                    |
| Kilovolt                            | kV                         |
| Latex Modified                      | LM                         |
| Left                                | Lt                         |
| Left Turn Green Arrow               | LTGA                       |

MICHIGAN DEPARTMENT OF TRANSPORTATION  
Pay Item Information

11/2/2016

| <b><u>DESCRIPTION</u></b>   | <b><u>ABBREVIATION</u></b> |
|---|----------------------------|
| Light Emitting Diode  | LED                        |
| Lighting  | Ltg                        |
| Load Factor Design  | LFD                        |
| Load Resistance Factor Design   | LRFD                       |
| Longitudinal  | Longit                     |
| Loose Measure   | LM                         |
| Low Volume Superpave  | LVSP                       |
| Manhole   | Mh                         |
| Marking   | Mrkg                       |
| Maximum   | Max                        |
| Miles per Hour  | MPH                        |
| Millimeter  | mm                         |
| Minimum   | Min                        |
| Miscellaneous   | Misc                       |
| Mount(ed)   | Mtd                        |
| Multiple  | Mult                       |
| National Transportation Communications for<br>Intelligent Transportation Systems Protocol | NTCIP                      |
| Nonreinforced   | Nonreinf                   |
| Non-Removable   | NR                         |
| Number  | No.                        |
| Operate(d)  | Oper                       |
| Overlay   | Ovly                       |
| Pavement  | Pavt                       |
| Permanent Traffic Recorder  | PTR                        |
| Plastic Jacket  | PJ                         |
| Polyvinyl Chloride  | PVC                        |
| Portable Traffic Signal   | PTS                        |
| Prefabricated Drainage System   | PDS                        |
| Prestressed   | Prest                      |
| Primary   | Prim                       |
| Public Rights of Way Accessibility Guidelines   | PROWAG                     |
| Reconstruct   | Reconst                    |
| Reinforced  | Reinf                      |
| Removable   | R                          |
| Remove/Removal  | Rem                        |
| Repair  | Repr                       |
| Retroreflectant   | Retrflec                   |
| Right   | Rt                         |
| Right Turn Green Arrow  | RTGA                       |
| Salvage   | Salv                       |
| Second  | 2nd                        |
| Secondary   | Sec                        |
| Section   | Sect                       |
| Service   | Serv                       |
| Shoulder  | Shld                       |
| Sloped  | Slp                        |
| Special   | Spec                       |

MICHIGAN DEPARTMENT OF TRANSPORTATION  
Pay Item Information

11/2/2016

| <b><u>DESCRIPTION</u></b> | <b><u>ABBREVIATION</u></b> |
|---------------------------|----------------------------|
| Standard                  | Std                        |
| Standard Green Arrow      | STGA                       |
| Street                    | St                         |
| Structural Plate          | Str Plate                  |
| Symbol                    | Sym                        |
| Temporary                 | Temp                       |
| Thermoplastic             | Thermopl                   |
| Time Base Controller      | TBC                        |
| Traffic                   | Traf                       |
| Traffic Signal            | TS                         |
| Transverse                | Transv                     |
| Trench Detail             | Tr Det                     |
| Volt                      | V                          |
| Watt                      | W                          |