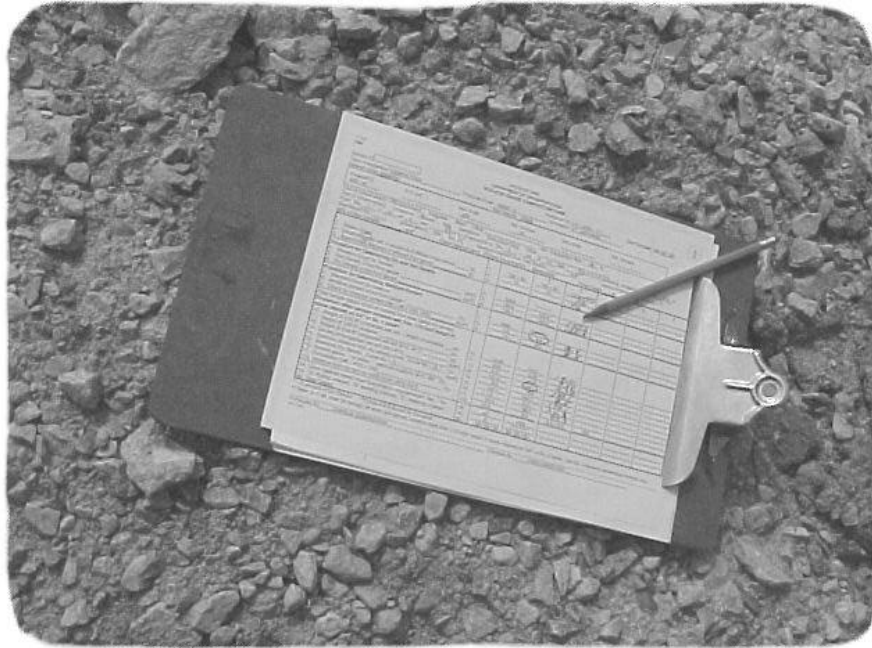


Construction Project Documentation



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An Equal Opportunity Employer

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Construction Project Documentation

100 - Introduction: The Procedures for Construction Project Documentation is devoted to maintaining consistent levels of project level inspection and documentation across the State. The instructions contained herein define the duties and responsibilities of Department project personnel in the determination of compliance with the provisions of the contract, the measurement of quantities for payment and the documentation of compliance and measurements. Inspection and documentation are required on every construction project to substantiate the basis for payment. The benefits of having documentation guidelines include the simpler training of new project personnel, a sound basis to defend claims from contractors, the effective use of ODOT's workforce, and uniform inspection requirements.

In no instance does this document alter the provisions of the contract.

English units are used as the primary unit with metric (SI) units following in parentheses. Metric conversion of English units is generally in accordance with ASTM E 380 and AASHTO guidelines. In some cases, metric conversion has been rounded to a practical value rather than a precise conversion. Industry standard metric values have been adopted where available.

These procedures will be used to provide a uniform and fair basis of operations wherever the Ohio Department of Transportation provides supervision or engineering services for the acquisition, construction, or maintenance of materials or services. This is not a contract document, and is not to be construed in any way to obligate the Ohio Department of Transportation to perform any duties.

101 - Reference Documents: Documents normally used for detailed interpretation of substantiation requirements, practices, and test methods are:

- Ohio Manual of Uniform Traffic Control Devices
- Manual of Procedures for Earthwork Construction, Volume I and Volume II
- Manual of Procedures for Concrete
- Manual of Procedures for Flexible Pavement Construction
- Manual of Procedures for Rigid Pavement Practices
- Manual of Procedures for Lighting
- Manual of Procedures for Signal Construction
- Manual of Procedures for Pipe
- Materials Sampling and Testing Program

102 - Abbreviations: Wherever the following title abbreviations are used, they are to be construed the same as the respective expressions represented:

- | | |
|--------|---|
| AAN | American Association of Nurserymen |
| AASHTO | American Association of State Highway and
Transportation Officials |
| ACI | American Concrete Institute |
| AISC | American Institute of Steel Construction |
| AISI | American Iron and Steel Institute |
| ANSI | American National Standards Institute |
| AREA | American Railway Engineering Association |

ASCE	American Society of Civil Engineers
ASME	American Society of Mechanical Engineers
ASTM	American Society of Testing and Materials
AWG	American Wire Gauge
AWS	American Welding Society
AWWA	American Water Works Association
AWPA	American Wood Preservers' Association
CMS	Construction and Material Specifications of the Ohio Department of Transportation
EEl	Edison Electric Institute
EPA	Environmental Protection Agency
FHWA	Federal Highway Administration, Department of Transportation
FSS	Federal Specifications and Standards, General Services Administration
IEEE	Institute of Electrical and Electronic Engineers
IES	Illuminating Engineering Society
IMSA	International Municipal Signal Association
IPCEA	Insulated Power Cable Engineers Association
ITE	Institute of Transportation Engineers
ISSA	International Slurry Seal Association
NEMA	National Electrical Manufacturers Association
OSHA	Occupational Safety and Health Administration
ODOT	Ohio Department of Transportation
OMUTCD	Ohio Manual of Uniform Traffic Control Devices
ORDC	Ohio Rail Development Commission
ORC	Ohio Revised Code
REA	Rural Electrification Administration
SSPC	Steel Structures Painting Council
UL	Underwriters' Laboratories, Inc.

Most abbreviations are defined in the Construction and Materials Specifications before being used, however the industry abbreviations summarized here can be construed to have the common meaning:

CMS	Construction and Materials Specifications
DBE	Disadvantaged Business Enterprise
MBE	Minority Business Enterprise
JMF	Job Mix Formula
HMA	Hot Mix Asphalt
PO	Purchase Order
GGBF	Ground Granulated Blast Furnace (Slag)
AC	Asphaltic Cement
No.	Number
RACP	Reclaimed Asphalt Concrete Pavement
RBAB	Reclaimed Bituminous Aggregate Base
RPCC	Recycled Portland cement concrete
PCC	Portland Cement Concrete
CTFDB	Cement treated free draining base
MSG	Maximum Specific Gravity

MTD	Maximum Theoretical Density
F/T	Fifty to Thirty (an asphalt mix property)
F/A	Fines to Asphalt ratio
PVC	Polyvinyl Chloride
MFBM	Thousand Board Feet (measurement of wood)
AC	Alternating Current
DC	Direct current
RPM	Raised Pavement Marker

200 - General Guidelines for Documentation: Documentation consists of the written project records necessary to verify performance of the work item. It should be noted that documentation is progressive and must be coordinated with the construction progress.

To meet the requirements for payment on Federal-Aid and State projects, the following two conditions must be met:

1. The final quantity has been determined in accordance with the specifications and the necessary weight tickets, measurements, calculations, etc. , is validated properly. Procedures for meeting these conditions are contained in this handbook.
2. The work has been completed in substantial conformity with the plans and specifications, and this fact is documented and placed in the project files. Procedures for meeting these conditions are contained in the referenced construction procedures handbooks.

As a general rule, the inspector's reports or related forms should contain information in sufficient detail to verify that construction is in substantial conformity with the plans and specifications. Documentation should be validated in every case with the following seven identifiers:

1. Date
2. Project Number
3. Item Number
4. Reference Number
5. Subject
6. Location
7. Signature or Initials

201 - Substantiation: The construction procedure's handbooks (Earthwork, Asphalt, Concrete, Pipe, etc . . .) describe in detail, the requirements of documenting substantial conformity with contract requirements. Substantiation includes the usage of specific forms and test methods as required by the construction procedures handbooks. Progressive project inspection and control records must be so related to items being documented that they readily substantiate and verify that documented quantities are placed in accordance with contract requirements. Substantiation records are placed in the project file each day.

For the purpose of documentation, project records must be identified with the seven identifiers listed above. These records must also: show location data, include computations, and be filed in project records. Records will be on designated forms whenever possible.

202 - Measurement: Individual measurements will be made with sufficient accuracy and frequency to avoid unrealistic accumulations. The summary of final pay quantity is rounded off to the nearest whole number unless specified in the proposal. Include the seven identifiers listed above with a documentation record of each pay item on designated form and file in the project records.

The seven identifiers listed above must be included on tickets and tapes if no other documentation forms are used for the item. If separate forms are used (e.g., Asphalt tickets used along with the C-146 Bituminous Concrete Inspection) initials only are required on the tickets, and the seven identifiers are required on the form.

203 - Sketches: Sketches and drawings may be used wherever they are an aid in clarifying locations or dimensions.

204 - Validation: Items paid for by weight or by conversion methods involving weight will be validated by initials or signatures of witnessing inspectors at the source and at the point of use. The printed weight ticket from automatic or semiautomatic scale operations will be acceptable documentation without source validation on materials used infrequently or delivered in occasional loads if the ticket is validated at the delivery point by the inspector.

Should material be delivered to the project without verification of a non-printed weight ticket at the source due to infrequent use or oversight, material will be reweighed or weight will be checked by comparison to measured volume in place. Action taken will be recorded on the ticket.

Items paid for on a unit, lump sum, length, area, volume or miscellaneous basis either in place or from verified plan dimensions, will be validated by initials or signature of person making or verifying measurements, calculations and observations.

Where partial loads are involved, quantities will be determined from measurements in the vehicle or calibrated tanks.

205 - Filing: All project records will be maintained in the field office in a file by project number. Tickets and other bulky items may be filed separate provided they are referenced to the associated contract reference number. Upon completion of the project, the entire file will be moved to the District Office and maintained for future reference. All final quantity documentation will be delivered to the District Office in a timely manner at the discretion of the District Documentation coordinator after completion of the physical work. District project files will be maintained in a single well-organized location for the time period outlined in the ODOT record retention schedule.

300 - Partial List of Forms (Shaded items are located at the end of this manual)

C-1A	PAVEMENT REPAIR AND SAWING
C-2	AIR TEST FOR STRUCTURES
C-7	FINAL QUANTITY REPORT
C-9	FIELD DOCUMENTATION TABLE
C-12	METHODS OF COMPUTING TANK VOLUME
C-13	AUTHORIZATION OF UNDERCUT
C-19	PROOF ROLLING
C-20	CROSS REFERENCE RECORD
C-21	DECK POUR CHECK LIST
C-24	SAMPLE NUMBER RECORD
C-24A	CONCRETE AGGREGATE SAMPLE TRACKING
C-25	STRUCTURE TEMPERATURE RECORD
C-26	MEASUREMENT DOCUMENTATION (PACKET)
C-26-S	FIELD CALCULATION & MEASUREMENT
C-27	SEEDING CALCULATION
C-28	SUBSTANTIATION OF SEEDING ITEMS
C-34	DAILY RECORD OF FORCE ACCOUNT
C-35	PILING MEASUREMENT
BR-2-75	PILE DRIVING LOG
C-36	REINFORCING STEEL VERIFICATION TABLE
C-39	EARTHWORK CALCULATIONS
C-43	DATE OF ENTRY - APPROPRIATION PARCELS
C-46	PAINT MEASUREMENTS
C-RPM-1	RAISED PAVEMENT MARKERS DAILY REPORT
COR	CHANGE ORDER REQUEST
C-146	BITUMINOUS CONCRETE INSPECTION
C-147	LIQUID BITUMINOUS MATERIAL
CMS - 1	INSPECTOR'S DAILY DIARY
CMS - 2	P.E./P.S. DAILY REPORT

400 - Instruction Codes:

The following instructions, grouped by measurement type, supplement the general instructions and have particular application to specific pay items. Match the Instruction Code listed in the Index of Pay Items table to the following Instructions to determine specific documentation requirements. Special and unlisted pay items will be documented using the general guidelines for documentation outlined above.

401 - Conversion Type Measurements:

- C-1 Summarize weight to nearest ton (metric ton) from validated weight tickets and determine volume to the nearest cubic yard (cubic meter) by using conversion factor.
- C-2 n/a
- C-3 Summarize and convert to nearest ton (metric ton) by conversion from validated tickets. Convert sack and brine shipments to weight as specified.
- C-4 n/a
- C-5 Summarize quantity to nearest cubic yard (cubic meter) by conversion from validated weight tickets Include a daily coordination of weight tickets with placement and location. Where there is a moisture limitation, at least one moisture test shall be made and more if necessary to provide for an appropriate deduction.
- C-6 Determine volume to nearest gallon (liter) by conversion from validated weight tickets. Where source validation is missing or for partial loads, determine volume by conversion from weigh-back or by measurement of tank. Where basic measurement is by volume, record temperature.
- C-7 Determine quantity to nearest cubic yard (cubic meter) from plan quantity adjusted for errors and changes. Use for new construction on new subgrade. For variable thickness or resurfacing determine quantity to nearest cubic yard (cubic meter) by conversion from validated weight tickets.
- C-8 For direct volume measurements determine volume to nearest cubic yard (cubic meter) from cross-sections before and after removal. For converted volume measurements, summarize validated weight tickets and convert to nearest cubic yard (cubic meter) using density tests as basis for conversion. Adjust measured quantity by deducting embankment in excess of allowable tolerances, if any, in accordance with THE MANUAL OF PROCEDURES FOR EARTHWORK.
- C-9 Determine area by field measurement to nearest square yard (square meter). Substantiate rates of application by means of at least one test area made at time of application . Determine rate of application on test area by calculation from verified quantities of material placed and measured area over which it is applied. For seeding and mulching, record number of square yards (square meters) having substantiated rates of application.

402 - Volume Type Measurements:

- V-1 Determine volume to nearest cubic yard (cubic meter) using recorded verified plan dimensions, which include a verification of depth and thickness.
- V-2 Record verified plan dimensions of the forms and calculate volume of each unit. Summarize final quantity to the nearest cubic yard (cubic meter) or decimal as indicated by ref. no.
- V-3 Determine volume before removal or determine volume from verified plan dimensions to nearest cubic yard (cubic meter).
- V-4 Plan quantity shall be payed as per specification 203.15 (a). Any plan changes shall be documented using cross-section per C-8 or measurements per V-1.
- V-5 Determine volume loose in vehicle at point of delivery and summarize to nearest cubic yard (cubic meter).
- V-6 n/a
- V-7 Determine volume to nearest cubic yard (cubic meter) using specified dimensions and vertical measurements between bottom plane of footing and top of rock or shale excavation.
- V-8 Determine to nearest cubic yard (cubic meter) from summarization of validated delivery tickets. Tickets shall record cubic yard (cubic meter)s from predetermined tank size or sizes, converted weight or meter readings. Tickets for each load shall be issued by contractor and be collected, identified and validated by inspector at point of delivery.
- V-9 Determine volume to nearest cubic yard (cubic meter) using horizontal dimensions established by 503.11 of the specifications .

403 - Weight Type Measurements:

- W-1 Summarize weight to nearest 100 pounds (50 kilograms) using validated scale weight tickets or weights calculated from verified dimensions and steel handbook.
- W-2 Obtain copy of memorandum of Office of Structural Engineering of approved pay weight. See structural steel screen on CMS.(SSREF)
- W-3 n/a
- W-4 Summarize validated delivery tickets to nearest ton (metric ton). Determine volume of embankment, if any, in excess of allowable tolerances, convert to tons (metric tons) and deduct from summarized weight.
- W-5 Summarize to nearest ton (metric ton) from validated weight tickets.
- W-6 Summarize to nearest pound (kilogram) from validated weight tickets.

404 - Linear Type Measurements:

- L-1 Measure length of item and summarize to nearest foot (meter).
- L-2 Measure length of item to nearest foot (meter) , include data as to re-use and storage.
- L-3 Measure length of item to nearest 1/100th mile (1/100 kilometer, e.g. 19.98 kilometer), etc.
- L-4 Measure length to nearest inch (1/10 meter, e.g. 14.8 meter), etc..
- L-5 Guardrail quantities are normally determined in standard 12 foot (3.81 meter) panel lengths with adjustments for end assemblies, in multiples of 6.25 foot (1.905 meter)
- L-6 Measure length of item to nearest 1/100th mile (1/100 kilometer, e.g. 19.98 kilometer), etc.. and include deficiency data as per specifications.
- L-7 Measure length of piles between extreme point and cut-off to nearest 1/8th inch (millimeter). Check measure inside cast-in-place piles and make conformance statement relative to measurement and length marks. Summarize measurements to nearest foot (meter). Locate piles by numbering system on piling layout.
- L-8 Measure length of item to the highest foot (0.5 meter, e.g. 4.0, 4.5) etc.

405 - Area Type Measurements:

- A-1 Measure surface dimensions of the item, calculate area and summarize to the nearest square yard (square meter).
- A-2 Adjust plan area for changes, errors, and deviations in excess of allowable tolerances, and summarize to the nearest square yard (square meter).
- A-3 Determine the specified plan areas of each size and type from verified shop drawings and summarize to nearest 1/10 square yard (square meter e.g. 45.3 square meter), etc..
- A-4 Plan quantity as per specification 659.11. Check application rates and deduct area if application rates are below spec. for seed, mulch, and emulsion.

406 - Unit (each) Type Measurements:

- U-1 Determine number of units.
- U-2 Determine number of units visible on completion and make a statement relative to conformance with contract requirements.
- U-3 Determine number of units and include data as to reuse or storage.

407 - Lump Sum Type Measurements:

LS-1 Verify work is in accordance with plans.

LS-2 Record driving log of first test pile or results of test loads and locate by numbering system on piling layout.

408 - Miscellaneous Type Measurements:

M-1 Summarize rolling time to nearest 1 hour. Include data on weight and tire pressure.

INDEX OF PAY ITEMS

I T E M	DESCRIPTION	UNITS: ACCURACY REQUIRED Daily Entries, Estimates And Finals	C O D E	F O R M	T K T S
	200 EARTHWORK				
201	TREES OR STUMPS REMOVED, _____ SIZE	EACH	U-1	C-26	
201	CLEARING AND GRUBBING	LUMP	LS-1	CMS-1	
202	STRUCTURES REMOVED	LUMP	LS-1	CMS-1	
202	PORTIONS OF STRUCTURES REMOVED PORTIONS OF STRUCTURES REMOVED PORTIONS OF STRUCTURES REMOVED	LUMP 1 CU. YARD 100 POUND	LS-1 V-3 W-1	CMS-1 C-26 SUP WEIGHT	X
202	PIPE REMOVED FOR REUSE OR STORAGE	1 FOOT	L-2	C-26	
202	PIPE REMOVED	1 FOOT	L-1	C-26	
202	PAVEMENT REMOVED	0.1 SQ. YARD	A-1	C-26	
202	WEARING COURSE REMOVED	0.1 SQ. YARD	A-1	C-26	
202	BASE REMOVED	0.1 SQ. YARD	A-1	C-26	
202	WALK REMOVED	0.1 SQ. YARD	A-1	C-26	
202	STEPS REMOVED	LUMP	LS-1	C-26	
202	CURB REMOVED	1 FOOT	L-1	C-26	
202	CURB AND GUTTER REMOVED	1 FOOT	L-1	C-26	
202	GUTTER REMOVED GUTTER REMOVED	1 FOOT 0.1 SQ. YARD	L-1 A-1	C-26 C-26	
202	CURB REMOVED FOR STORAGE	1 FOOT	L-2	C-26	
202	PRECAST TRAFFIC DIVIDERS REMOVED FOR RE-USE AND STORAGE	EACH	U-3	C-26	
202	BUILDINGS DEMOLISHED	LUMP	LS-1	CMS-1	
202	UNDERGROUND STORAGE TANK REMOVED	EACH	U-1	C-26	
202	REGULATED STORAGE TANK REMOVED	EACH	U-1	C-26	
202	SEPTIC TANK REMOVED	EACH	U-1	C-26	
202	PRIVY VAULT REMOVED	EACH	U-1	C-26	
202	GUARDRAIL REMOVED	1 FOOT	L-1	C-26 OR C-9	
202	GUARDRAIL REMOVED FOR RE-USE OR STORAGE	1 FOOT	L-5	C-26 OR C-9	

I T E M	DESCRIPTION	UNITS: ACCURACY REQUIRED Daily Entries, Estimates And Finals	C O D E	F O R M	T K T S
202	FENCE REMOVED FOR RE-USE OR STORAGE	1 FOOT	L-1	C-26	
202	RPM'S REMOVED FOR STORAGE	EACH	U-3	C-26	
202	MANHOLE REMOVED	EACH	U-1	C-26	
202	MANHOLE ABANDONED	EACH	U-1	C-26	
202	CATCH BASIN OF INLET REMOVED	EACH	U-1	C-26	
202	CATCH BASIN OR INLET ABANDONED	EACH	U-1	C-26	
	203 ROADWAY EXCAVATION AND EMBANKMENT				
203	EXCAVATION INCLUDING EMBANKMENT CONSTRUCTION	1 CU. YARD	V-4	C-39 IF NEEDED	
203	EXCAVATING NOT INCLUDING EMBANKMENT CONSTRUCTION	1 CU. YARD	V-4	C-39 IF NEEDED	
203	EMBANKMENT	1 CU. YARD	V-4	" "	
203	BORROW BORROW	1 CU. YARD 1 Ton (metric ton)	C-8 W-4	X-SEC'S WEIGHT	X
203	LINEAR GRADING	1 FOOT	L-1	C-26	
203	SUBGRADE COMPACTION	1 SQ. YARD	A-2	C-26	
203	PROOF ROLLING	0.1 HOUR	M-1	C-19	
205	LIME MODIFIED SOIL-DRY METHOD	1 CU. YARD	V-1	C-26	
205	LIME MODIFIED SOIL-WET METHOD	1 CU. YARD	V-1	C-26	
205	LIME	0.1 Ton	W-5	WEIGHT	X
205	WATER	0.1 CU. YARD	V-8	C-26	
206	LIME SOIL STABILIZED SUBGRADE	0.1 SQ. YARD	A-1	C-26	
206	LIME	0.1 Ton	W-5	WEIGHT	X
206	WATER	0.1 CU. YARD	V-8	C-26	
	207 TEMPORARY EROSION CONTROL				
207	TEMPORARY SEEDING AND MULCHING	1 SQ. YARD	C-9	C27 C28	
207	TEMPORARY SLOPE DRAINS	1 FOOT	L-1	C-26	
207	TEMPORARY BENCHES, DAMS, SEDIMENT BASIN	1 CU. YARD	V-1	C-26	
207	STRAW OR HAY BALES	EACH	L-1	C-26	
207	FILTER FABRIC FENCE	1 FOOT	L-1	C-26	
207	TEMPORARY DIKES	1 FOOT	L-1	C-26	

I T E M	DESCRIPTION	UNITS: ACCURACY REQUIRED Daily Entries, Estimates And Finals	C O D E	F O R M	T K T S
207	TEMPORARY DITCH PROTECTION	1 SQ. YARD	C-9	C-26	
	250 PAVEMENT REPAIRS				
251	PARTIAL DEPTH PAVEMENT REPAIR	0.1 SQ. YARD	A-1	C-26	
252	FULL DEPTH RIGID PAVEMENT REMOVAL AND FLEXIBLE REPLACEMENT	0.1 SQ. YARD	A-1	C-1A	
252	FULL DEPTH PAVEMENT SAWING	0.1 FOOT	L-1	C-1A	
253	PAVEMENT REPAIR PAVEMENT REPAIR	0.1 SQ. YARD 0.1 CU. YARD	A-1 V-1	C-26 C-26	
254	PAVEMENT PLANING, BITUMINOUS	0.1 SQ. YARD	A-1	C-26	
254	PAVEMENT PLANING, CONCRETE	0.1 SQ. YARD	A-1	C-26	
254	PATCHING PLANED SURFACES	0.1 SQ. YARD	A-1	C-26	
255	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS _____	0.1 SQ. YARD	A-1	C-1A	
255	FULL DEPTH PAVEMENT SAWING	0.1 FOOT	L-1	C-26	
301	BITUMINOUS AGGREGATE BASE	0.1 CU. YARD	C-7	C26,C26 SUPP	X
304	AGGREGATE BASE	0.1 CU. YARD	V-1 C-7	C-26	X
305	CONCRETE BASE	0.1 SQ. YARD	A-2	C-26	
306	CEMENT TREATED FREE DRAINING BASE	0.1 SQ. YARD	A-2	C-26	
307	NON-STABILIZED DRAINAGE BASE TYPE ____	0.1 SQ. YARD	A-2	C-26	
402	ASPHALT CONCRETE	0.1 CU. YARD	V-1 C-7	C-26	X
403	ASPHALT CONCRETE	0.1 CU. YARD	V-1 C-7	C-26	X
404	ASPHALT CONCRETE	0.1 CU. YARD	V-1 C-7	C-26	X
405	MIX AGGREGATE	0.1 CU. YARD	C-5	TICKETS	X
405	CHOKER AGGREGATE	0.1 CU. YARD	C-5	TICKETS	X
405	MIX BITUMINOUS MATERIAL	1 GALLON	C-6	C-147	X
406	MICRO-SURFACING, SURFACE COURSE	0.1 SQ. YARD	A-2	C-26	
406	MICRO-SURFACING, LEVELING COURSE	0.1 SQ. YARD	A-2	C-26	

I T E M	DESCRIPTION	UNITS: ACCURACY REQUIRED Daily Entries, Estimates And Finals	C O D E	F O R M	T K T S
406	MICRO-SURFACING, RUT FILL COURSE	0.1 Ton	W-5	C-26,SUP	X
407	TACK COAT	1 GALLON	C-6	C-147	X
407	TACK COAT FOR INTERMEDIATE COURSE	1 GALLON	C-6	C-147	X
408	BITUMINOUS PRIME COAT	1 GALLON	C-6	C-147	X
409	SEAL COAT COVER AGGREGATE No. _____	0.1 CU. YARD	C-5	C-26	X
410	TRAFFIC COMPACTED SURFACE TYPE A or B	0.1 CU. YARD 0.1 TON	C-5 W-5	C-26,SUP WEIGHT	X X
410	TRAFFIC COMPACTED SURFACE TYPE C	0.1 CU. YARD 0.1 TON	C-5 W-5	C-26SUP WEIGHT	X X
411	STABILIZED CRUSHED AGGREGATE	0.1 CU. YARD	C-7	C26SUP	X
412	ASPHALT CONCRETE	0.1 CU. YARD	C-7	C26SUP	X
413	SAWING & SEALING ASPHALT CONCRETE JOINTS.	0.1 FOOT	L-1	C-26	
446	ASPHALT CONCRETE, INTERMEDIATE COURSE TYPE_	0.1 CU. YARD	C-7	C26/SUP	X
446	ASPHALT CONCRETE, SURFACE COURSE TYPE_	0.1 CU. YARD	C-7	C26/SUP	X
448	ASPHALT CONCRETE, INTERMEDIATE. COURSE TYPE_	0.1 CU.YARD	C-7	C26/SUP	X
448	ASPHALT CONCRETE, SURFACE COURSE TYPE_	0.1 CU. YARD	C-7	C26/SUP	X
451	REINFORCED CONCRETE PAVEMENT	0.1 SQ. YARD	A-2	C-26	
452	PLAIN CONCRETE PAVEMENT	0.1 SQ. YARD	A-2	C-26	
453	CONTINUOUS REINFORCED CONCRETE PAVEMENT	0.1 SQ. YARD	A-2	C-26	
	500 STRUCTURES				
502	TEMPORARY STRUCTURES	LUMP SUM	LS-1	C-26	
503	COFFERDAMS, CRIBS, AND SHEETING	LUMP SUM	LS-1	CMS-1	
503	UNCLASSIFIED EXCAVATION	1 CU. YARD	V-9	C26SUP	
503	UNCLASSIFIED EXCAVATION	LUMP SUM	LS-1	CMS-1	
503	UNCLASSIFIED EXCAVATION INCLUDING ROCK	1 CU. YARD	V-9	C26SUP	
503	UNCLASSIFIED EXCAVATION INCLUDING SHALE	1 CU. YARD	V-9	C26SUP	
503	UNCLASSIFIED EXCAVATION INCLUDING SHALE OR ROCK	1 CU. YARD	V-9	C26SUP	
503	ROCK EXCAVATION	1 CU. YARD	V-7	C26SUP	
503	SHALE EXCAVATION	1 CU. YARD	V-7	C26SUP	

I T E M	DESCRIPTION	UNITS: ACCURACY REQUIRED Daily Entries, Estimates And Finals	C O D E	F O R M	T K T S
504	STEEL SHEET PILING LEFT IN PLACE _____	0.1 SQ. YARD	A-1	C26SUP	
505	PILE DRIVING EQUIPMENT MOBILIZATION	LUMP SUM	LS-2	C-35 & BR2-75	
506	STATIC LOAD TEST	LUMP SUM	LS-2	C-35 & BR2-75	
506	SUBSEQUENT STATIC LOAD TEST	EACH	LS-2	C-35 & BR2-75	
507	STEEL PILES HP _____X_____, FURNISHED	0.1 FOOT	L-7	C-35 & BR2-75	
507	STEEL PILES HP _____X_____, DRIVEN	0.1 FOOT	L-7	C-35 & BR2-75	
507	___IN CAST-IN-PLACE, REINFORCED CONCRETE PILES, FURNISHED	0.1 FOOT	L-7	C-35 & BR2-75	
507	___IN CAST-IN-PLACE, REINFORCED CONCRETE PILES, DRIVEN	0.1 FOOT	L-7	C-35 & BR2-75	
507	TIMBER PILES, CREOSOTED	0.1 FOOT	L-7	C-35 & BR2-75	
507	TIMBER PILES, UNTREATED	0.1 FOOT	L-7	C-35 & BR2-75	
507	PRE-BORED HOLES	0.1 FOOT	L-1	C-26	
507	STEEL POINTS OR SHOES	EACH	U-1	C-26	
507	STEEL PILE SPLICES	EACH	U-1	C-26	
509	EPOXY COATED REINFORCING STEEL	100 POUND	XX	XXXXXX	
509	DOWEL HOLES	EACH	XX	XXXXXX	
511	CLASS _____ CONCRETE, _____	0.1 CU. YARD	V-2	C26SUP	
511	CLASS _____ CONCRETE, BRIDGE DECK	0.1 CU. YARD 0.1 SQ. YARD	V-2 A2	C26SUP C26SUP	
512	TYPE _____ WATERPROOFING	0.1 SQ. YARD LUMP SUM	A-1 LS-1	C26SUP C26SUP	
513	STRUCTURAL STEEL (_____)	100 POUND LUMP SUM	W-2 LS-1	SEE W-2 C26SUP	
513	WELDED STUD SHEAR CONNECTORS	EACH	U-1	C-26	
514	FIELD PAINTING OF NEW STEEL, SYSTEM _____	100 POUND LUMP SUM	W-2 LS-1	SEE W-2 C26SUP	
514	SURFACE PREPARATION, EXISTING STEEL, SYSTEM _____	LUMP SUM	LS-1	CMS-1	

I T E M	DESCRIPTION	UNITS: ACCURACY REQUIRED Daily Entries, Estimates And Finals	C O D E	F O R M	T K T S
514	FIELD PAINTING OF EXISTING STEEL, SPOT PRIME, SYSTEM_____	LUMP SUM	LS-1	CMS-1	
514	FIELD PAINTING OF EXISTING STEEL, COMPLETE COAT PRIME, SYSTEM_____	LUMP SUM	LS-1	CMS-1	
514	FIELD PAINTING OF EXISTING STEEL, COMPLETE COAT FINISH, SYSTEM _____	LUMP SUM	LS-1	CMS-1	
515	PRESTRESSED CONCRETE BRIDGE MEMBERS	EACH 0.1 FOOT	U-1 L-4	C-26 C-26	
516	STRUCTURAL STEEL EXPANSION JOINTS	0.1 FOOT 100 POUND	L-4 W-2	C-26 SEE W-2	
516	STRUCTURAL EXPANSION JOINTS INCLUDING ELASTOMERIC _____ SEALS	0.1 FOOT	L-4	C-26	
516	ELASTOMERIC COMPRESSION SEALS FOR STRUCTURAL STEEL JOINTS, _____ WIDTH	0.1 FOOT	L-4	C-26	
516	FOLDER COPPER STRIP _____	0.1 FOOT	L-4	C-26	
516	VERTICAL EXTENSION OF STRUCTURAL EXPANSION JOINTS	0.1 FOOT	L-4	C-26	
516	_____ PREFORMED EXPANSION JOINT FILLER	0.1 SQ. YARD	A-1	C-26	
516	JOINT SEALER	0.1 FOOT	L-4	C-26	
516	BEARING DEVICES	EACH 0.1 FOOT 0.1 SQ. YARD 100 POUND	U-1 L-4 A-1 W-2	C-26 C-26 C-26 SEE W-2	
516	_____IN ELASTOMERIC BEARING PAD	EACH 0.1 SQ. YARD	U-1 A-1	C-26 C-26	
516	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY ___x___x___	EACH	U-1	C-26	
516	ELASTOMERIC BEARING WITH INTERNAL LAMINATES WITH LOAD PLATE ___x___x___	EACH	U-1	C-26	
516	3 IN PERFORMED BEARING PADS	0.1 SQ. YARD	A-1	C-26	
517	RAILING (_____)	0.1 FOOT	L-1	C-26	
518	POROUS BACKFILL	0.1 CU. YARD LUMP SUM	V-6 LS-1	C26SUP CMS-1	
518	POROUS BACKFILL WITH FILTER FABRIC	0.1 CU. YARD LUMP SUM	V-6 LS-1	C26SUP CMS-1	
518	_____IN _____ PIPE INCLUDE SPECIALS	0.1 FOOT	L-4	C-26	

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518	SCUPPERS, INCLUDING SUPPORTS	EACH	U-1	C-26	
518	TROUGH HORIZONTAL CONDUCTORS	100 POUND 0.1 FOOT	W-2 L-1	SEE W-2 C-26	
518	PIPE HORIZONTAL CONDUCTORS	100 POUND 0.1 FOOT	W-2 L-1	SEE W-2 C-26	
518	___ IN ___ PIPE DOWNSPOUT	1 FOOT	L-1	C-26	
519	PATCHING CONCRETE STRUCTURES	0.1 SQ. YARD	A-1	C26SUP	
520	PNEUMATICALLY PLACED MORTAR	0.1 SQ. YARD	A-1	C26SUP	
521	BRIDGE TIMBERS	0.1 CU. YARD	V-2	C26SUP	
521	STRIP FLOOR	0.1 SQ. YARD	A-1	C26SUP	
521	PLANK FLOOR	0.1 SQ. YARD	A-1	C26SUP	
522	___IN ___ STRUCTURAL PLATE CORRUGATED METAL STRUCTURE, ___IN	0.1 FOOT	L-1	C-26	
523	DYNAMIC LOAD TESTS	0.1 HOUR	U-1	C26SUP	
524	DRILLED SHAFTS, ___IN DIAMETER, ABOVE BEDROCK	0.1 FOOT	L-1	PLAN SHEET	
524	DRILLED SHAFTS, ___IN DIAMETER, INTO BEDROCK	0.1 FOOT	L-1	PLAN SHEET	
524	DRILLED SHAFTS, ___IN DIAMETER	0.1 FOOT	L-1	PLAN SHEET	
	601 INCIDENTALS				
601	RIPRAP	0.1 SQ. YARD	A-1	C-26SUP	
601	CRUSHED AGGREGATE SLOPE PROTECTION	0.1 SQ. YARD	A-1	C26SUP	
601	CONCRETE SLOPE PROTECTION	0.1 SQ. YARD	A-1	C26SUP	
601	DUMP ROCK FILL, TYPE _____	0.1 CU. YARD	V-1	C26SUP	
601	ROCK CHANNEL PROTECTION, TYPE ____ WITH FILTER	0.1 CU. YARD	V-1	C26SUP	
601	ROCK CHANNEL PROTECTION, TYPE ____ WITHOUT FILTER	0.1 CU. YARD	V-1	C26SUP	
601	PAVED GUTTER	0.1 FOOT	L-1	C-26	
602	BRICK MASONRY	0.1 CU. YARD	V-2	C26SUP	
602	BLOCK MASONRY	0.1 CU. YARD	V-2	C26SUP	

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602	CONCRETE MASONRY	0.1 CU. YARD	V-2	C26SUP	
603	___ IN CONDUIT, TYPE _____	0.1 FOOT	L-8	C-26	
603	_____X_____ CONDUIT, TYPE _____	0.1 FOOT	L-8	C-26	
603	___ IN CONDUIT RECONSTRUCTED, TYPE _____	0.1 FOOT	L-8	C-26	
603	TYPE A PRECAST REINFORCED CONCRETE FLAT TOPPED THREE-SIDED CULVERT ___IN SPAN X ___IN RISE	0.1 FOOT	L-8	C-26	
603	TYPE A PRECAST REINFORCED CONCRETE ARCH SECTION ___IN SPAN x ___IN RISE	0.1 FOOT	L-8	C-26	
603	___IN RISE X ___IN SPAN CONDUIT, TYPE A CORRUGATED STEEL BOX CULVERT, ___IN MIN. COVER, ___IN MAX. COVER	0.1 FOOT	L-8	C-26	
603	___IN RISE X ___IN SPAN CONDUIT, TYPE A CORRUGATED ALUMINUM BOX CULVERT, ___IN MIN. COVER, ___IN MAX. COVER	0.1 FOOT	L-8	C-26	
603	___ IN CONDUIT, TYPE _____, FIELD PAVING	0.1 FOOT	L-8	C-26	
603	___ IN CONDUIT, TYPE _____, FIELD PAVING OF EXISTING PIPE	0.1 FOOT	L-8	C-26	
604	MANHOLES	EACH	U-1	C-26	
604	INLETS	EACH	U-1	C-26	
604	CATCH BASINS	EACH	U-1	C-26	
604	MONUMENTS ASSEMBLIES	EACH	U-1	C-26	
604	REFERENCE MONUMENTS	EACH	U-1	C-26	
604	INSPECTION WELLS	EACH	U-1	C-26	
604	JUNCTION CHAMBERS	EACH	U-1	C-26	
604	MANHOLE, CATCH BASIN, OR INLET RECONSTRUCTED TO GRADE	EACH	U-1	C-26	
604	MANHOLE, CATCH BASIN, INLET, OR MONUMENT BAS ADJUSTED TO GRADE	EACH	U-1	C-26	
604	PRECAST REINFORCED CONCRETE OUTLET	EACH	U-1	C-26	
605	___ IN UNCLASSIFIED PIPE UNDERDRAINS	0.1 FOOT	L-8	C-26	
605	___ IN SHALLOW PIPE UNDERDRAINS	0.1 FOOT	L-8	C-26	
605	___ IN DEEP PIPE UNDERDRAINS	0.1 FOOT	L-8	C-26	

I T E M	DESCRIPTION	UNITS: ACCURACY REQUIRED Daily Entries, Estimates And Finals	C O D E	F O R M	T K T S
605	AGGREGATE DRAINS	0.1 FOOT	L-8	C-26	
605	___IN ROCK CUT UNDERDRAIN	0.1 FOOT	L-8	C-26	
605	___IN PREFABRICATED EDGE UNDERDRAIN	0.1 FOOT	L-8	C-26	
	GUARDRAIL				
606	GUARDRAIL, TYPE_____	0.1 FOOT	L-5	C-26/C-9	
606	GUARDRAIL, BARRIER DESIGN, TYPE_____	0.1 FOOT	L-5	C-26/C-9	
606	GUARDRAIL, REBUILT, TYPE_____	0.1 FOOT	L-5	C-26/C-9	
606	ANCHOR ASSEMBLY, TYPE_____	EACH	U-1	C-26/C-9	
606	ANCHOR ASSEMBLY, TYPE ____, BARRIER DSN	EACH	U-1	C-26/C-9	
606	BRIDGE TERMINAL ASSEMBLY, TYPE _____	EACH	U-1	C-26/C-9	
606	GUARDRAIL POST	EACH	U-1	C-26/C-9	
607	FENCE, TYPE _____	0.1 FOOT	L-1	C-26	
607	GATE, TYPE _____	EACH	U-1	C-26	
608	CONCRETE WALK	0.1 SQ. YARD	A-1	C-26/SUP	
608	BITUMINOUS WALK	0.1 SQ. YARD	A-1	C-26/SUP	
608	AGGREGATE WALK	0.1 SQ. YARD	A-1	C-26/SUP	
608	CURB RAMPS	0.1 SQ. YARD EACH	A-1 U-1	C-26/SUP C-26	
608	CONCRETE STEPS	0.1 FOOT	L-1	C-26	
609	SANDSTONE CURB	0.1 FOOT	L-1	C-26	
609	CURB, TYPE_____	0.1 FOOT	L-1	C-26	
609	COMBINATION CURB AND GUTTER	0.1 FOOT	L-1	C-26	
609	ASPHALT CONCRETE CURB	0.1 FOOT	L-1	C-26	
610	CELLULAR RETAINING WALL	0.1 SQ. YARD	A-1	C-26/SUP	
611	REINFORCED CONCRETE APPROACH SLABS	0.1 SQ. YARD	A-1	C-26/SUP	
612	CONCRETE TRAFFIC ISLAND	0.1 SQ. YARD 0.1 CU. YARD	A-1 V-1	C-26/SUP C-26/SUP	
612	CONCRETE MEDIAN	0.1 SQ. YARD 0.1 CU. YARD	A-1 V-1	C-26/SUP C-26/SUP	

I T E M	DESCRIPTION	UNITS: ACCURACY REQUIRED Daily Entries, Estimates And Finals	C O D E	F O R M	T K T S
613	LOW STRENGTH MORTAR BACKFILL	0.1 CU. YARD	V-1	C-26SUP	
613	LOW STRENGTH MORTAR BACKFILL, TYPE___	0.1 CU. YARD	V-1	C-26SUP	
	MAINTAINING TRAFFIC				
614	MAINTAINING TRAFFIC	LUMP SUM	LS-1	CMS-1	
614	TEMPORARY PAVEMENT MARKINGS	EACH 1 FOOT 0.1 MILE	U-1 L-1 L-3	C-26 C-26 C-46	
614	TEMPORARY RAISED PAVEMENT MARKER	EACH	U-1	C-26	
614	PORTABLE CHANGEABLE MESSAGE BOARD	EACH 1 MONTH	U-1 U-1	C-26 C-26	
614	WORK ZONE SPEED LIMIT SIGN	EACH	U-1	C-26	
614	WORK ZONE MARKING SIGN	EACH	U-1	C-26	
614	LAW ENFORCEMENT OFFICER W/PATROL CAR	1 HOUR	U-1	C-26	
614	BARRIER REFLECTOR	EACH	U-1	C-26	
614	TEMPORARY CROSSOVER LIGHTING SYSTEM	EACH	U-1	C-26	
614	TEMPORARY IMPACT ATTENUATOR	EACH	U-1	C-26	
614	TEMPORARY LANE LINE CLASS_____	0.1 MILE	L-3	C-46	
614	TEMPORARY CENTER LINE CLASS _____	0.1 MILE	L-3	C-46	
614	TEMPORARY CHANNELIZING LINE, CLASS I___	1 FOOT	L-1	C-26	
614	TEMPORARY EDGE LINE CLASS I, _____	0.1 MILE	L-3	C-46	
614	TEMPORARY GORE MARKING, CLASS II, _____	1 FOOT	L-1	C-26	
614	TEMPORARY STOP LINE, CLASS I, _____	1 FOOT	L-1	C-26	
614	TEMPORARY CROSSWALK LINE, CLASS I,_____	1 FOOT	L-1	C-26	
614	TEMPORARY DOTTED LINE, CLASS I,_____	1 FOOT	L-1	C-26	
614	BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC	0.1 CU. YARD	C-7	C26/SUP	X
615	TEMPORARY PAVEMENT, CLASS A	0.1 SQ. YARD	A-1	C26SUP	X
615	TEMPORARY PAVEMENT, CLASS B	0.1 SQ. YARD	A-1	C26SUP	X
615	TEMPORARY ROADS	LUMP SUM	LS-1	CMS-1	
616	WATER	1 CU. YARD	V-8	C-26SUP	X
616	CALCIUM CHLORIDE	0.1 Ton	C-3	C-26SUP	X
617	SHOULDER PREPARATION	1 SQ. YARD	A-1	C26/SUP	

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617	COMPACTED AGGREGATE, TYPE___	0.1 CU. YARD	C-1	WEIGHT	X
617	WATER	1 CU. YARD	V-8	C-26/SUP	X
618	RUMBLE STRIPS, TYPE 1	1 FOOT 0.1 MILE	L-1 L-3	C-26 C-26	
618	RUMBLE STRIPS, TYPE 2 (ASPHALT)	1 FOOT 0.1 MILE	L-1 L-3	C-26 C-26	
618	RUMBLE STRIPS, TYPE 2 (CONCRETE)	1 FOOT 0.1 MILE	L-1 L-3	C-26 C-26	
618	RUMBLE STRIPS, TYPE 3	1 FOOT 0.1 MILE	L-1 L-3	C-26 C-26	
619	FIELD OFFICE, TYPE _____	LUMP SUM	LS-1	CMS-1	
619	FIELD OFFICE, TYPE _____	MONTH	U-1	C-26	
620	DELINEATOR, TYPE____, POST MOUNTED	EACH	U-1	C-26	
620	DELINEATOR, TYPE _____, BRACKET MOUNTED	EACH	U-1	C-26	
620	TEMPORARY DELINEATOR, TYPE_____	EACH	U-1	C-26	
620	DELINEATOR REMOVED FOR STORAGE OR REMOVAL	EACH	U-1	C-26	
620	REFLECTOR, TYPE _____	EACH	U-1	C-26	
621	RAISED PAVEMENT MARKER	EACH	U-1	C-RPM-1	
621	RAISED PAVEMENT MARKER CASTING, INSTALLATION ONLY	EACH	U-1	C-RPM-1	
621	RAISED PAVEMENT MARKER, INSTALLATION	EACH	U-1	C-RPM-1	
621	PRISMATIC RETROREFLECTOR	EACH	U-1	C-RPM-1	
621	TWO-WAY RADIO EQUIPMENT	LUMP SUM	LS-1	CMS-1	
622	CONCRETE BARRIER, TYPE_____	0.1 FOOT	L-1	C-26	
622	PORTABLE CONCRETE BARRIER, _____IN	0.1 FOOT	L-1	C-26	
622	PORTABLE CONCRETE BARRIER, __IN BRIDGE MOUNT	0.1 FOOT	L-1	C-26	
623	CONSTRUCTION LAYOUT STAKES	LUMP SUM	LS-1	CMS-1	
624	MOBILIZATION	LUMP SUM	LS-1	CMS-1	
	HIGHWAY LIGHTING				
625	LIGHT POLE	EACH	U-2	C-9/C-26	

I T E M	DESCRIPTION	UNITS: ACCURACY REQUIRED Daily Entries, Estimates And Finals	C O D E	F O R M	T K T S
625	LIGHT POLE FOUNDATION	EACH	U-2	C-9/C-26	
625	LIGHT TOWER	EACH	U-2	C-9/C-26	
625	LIGHT TOWER FOUNDATION	EACH	U-2	C-9/C-26	
625	LIGHT TOWER MAINTENANCE FOUNDATION	EACH	U-2	C-9/C-26	
625	LUMINAIRE	EACH	U-2	C-9/C-26	
625	BRACKET ARM	EACH	U-2	C-9/C-26	
625	GLARE SHIELD	EACH	U-2	C-9/C-26	
625	GROUND ROD	EACH	U-2	C-9/C-26	
625	PULL BOX, (type), (size)	EACH	U-2	C-9/C-26	
625	TRENCH	0.1 FOOT	L-1	C-26	
625	TRENCH IN PAVED AREAS, TYPE_____	0.1 FOOT	L-1	C-26	
625	CONDUIT, (type), (size)	0.1 FOOT	L-1	C-26	
625	CONDUIT JACKED OR DRILLED UNDER PAVEMENT	0.1 FOOT	L-1	C-26	
625	No.____AWG, __ VOLT PRIMARY FEEDER CABLE	0.1 FOOT	L-1	C-9/C-26	
625	No.____AWG, __ VOLT SECONDARY FEEDER CABLE	0.1 FOOT	L-1	C-9/C-26	
625	No.____AWG, __ VOLT DISTRIBUTION CABLE	0.1 FOOT	L-1	C-9/C-26	
625	No.____AWG, __, POLE AND BRACKET CABLE	0.1 FOOT	L-1	C-9/C-26	
625	__IN DUCT-CABLE w/ __No.____AWG, __-VOLT CABLE	0.1 FOOT	L-1	C-9/C-26	
625	CONNECTOR KIT, TYPE_____	EACH	U-2	C-9/C-26	
625	CABLE SPLICING KIT	EACH	U-2	C-9/C-26	
625	POWER SERVICE	EACH	U-2	C-9/C-26	
625	STRUCTURAL GROUNDING SYSTEM	EACH	U-2	C-9/C-26	
625	LIGHT POLE ANCHOR BOLTS ON STRUCTURE	EACH	U-2	C-9/C-26	
625	JUNCTION BOX	EACH	U-2	C-9/C-26	
625	PORTABLE POWER UNIT	EACH	U-2	C-9/C-26	
625	HIGH VOLTAGE TEST	LUMP SUM	LS-1	CMS-1	
626	BARRIER REFLECTOR, TYPE A	EACH	U-1	C-26	
626	BARRIER REFLECTOR, TYPE B	EACH	U-1	C-26	
626	BARRIER REFLECTOR, TYPE A2	EACH	U-1	C-26	

I T E M	DESCRIPTION	UNITS: ACCURACY REQUIRED Daily Entries, Estimates And Finals	C O D E	F O R M	T K T S
626	BARRIER REFLECTOR, TYPE B2	EACH	U-1	C-26	
	TRAFFIC SIGNS AND SIGN SUPPORTS				
630	GROUND MOUNTED BEAM SUPPORT FOUNDATION.	EACH	U-1	C-9/C-26	
630	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	EACH	U-1	C-9/C-26	
630	SPAN WIRE SIGN SUPPORT FOUNDATION	EACH	U-1	C-9/C-26	
630	GROUND MOUNTED SUPPORT, _____ POST	0.1 FOOT	L-4	C-9/C-26	
630	GROUND MOUNTED SUPPORT, _____ BEAM	0.1 FOOT	L-4	C-9/C-26	
630	ONE WAY SUPPORT, _____ POST	0.1 FOOT	L-4	C-9/C-26	
630	TEMPORARY SIGN SUPPORT	0.1 FOOT EACH	L-4 U-1	C-9/C-26 C-9/C-26	
630	STREET NAME SIGN SUPPORT	EACH	U-1	C-9/C-26	
630	BREAKAWAY BEAM CONNECTION	EACH	U-1	C-9/C-26	
630	OVERHEAD SIGN SUPPORT, TYPE TC- _____, DESIGN _____	EACH	U-1	C-9/C-26	
630	COMBINATION OVERHEAD SIGN SUPPORT, TYPE _____, DESIGN _____	EACH	U-1	C-9/C-26	
630	SIGN ATTACHMENT ASSEMBLY	EACH	U-1	C-9/C-26	
630	LUMINAIRE SUPPORT ASSEMBLY, TYPE TC- _____	EACH	U-1	C-9/C-26	
630	SPAN WIRE SIGN SUPPORT, TYPE TC-17.10, DESIGN _____	EACH	U-1	C-9/C-26	
630	OVERPASS STRUCTURE MOUNTED SIGN SUPPORT, TYPE TC - _____, DESIGN _____	EACH	U-1	C-9/C-26	
630	SIGN HANGER ASSEMBLY, (span, wire, mast arm)	EACH	U-1	C-9/C-26	
630	SIGN SUPPORT ASSEMBLY, (pole or bridge mount)	EACH	U-1	C-9/C-26	
630	SIGN, (flat sheet, extrusheet, temp.overlay)	0.1 SQ. YARD	A-3	C-9/C-26	
630	SIGN, DOUBLE FACED, (street name, mile marker)	EACH	U-1	C-9/C-26	
630	SIGN ERECTED, (flat sheet, extrusheet, temp.overlay)	0.1 SQ. YARD	A-3	C-9/C-26	
630	SIGN BACKING ASSEMBLY	EACH	U-1	C-9/C-26	
630	EXISTING SIGN REVISED W/ DEMOUNTABLE COPY	EACH	U-1	C-9/C-26	
630	REFURBISHING SIGN	0.1 SQ. YARD	A-3	C-9/C-26	
630	COVERING SIGN	0.1 SQ. YARD	A-3	C-9/C-26	

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630	BARRIER WALL ASSEMBLY, TYPE TC-__DSN__	EACH	U-1	C-9/C-26	
630	REMOVAL OF GROUND MOUNTED (major) SIGN AND (storage, reerection, or disposal)	EACH	U-1	C-9/C-26	
630	REMOVAL OF GROUND MOUNTED (beam, post) SUPPORT AND (storage or disposal)	EACH	U-1	C-9/C-26	
630	REMOVAL OF OVERHEAD MOUNTED SIGN AND (storage, reerection, or disposal)	EACH	U-1	C-9/C-26	
630	REMOVAL OF OVERHEAD SIGN SUPPORT AND (storage, reerection, of disposal), TYPE TC- _____	EACH	U-1	C-9/C-26	
630	REMOVAL OF OVERLAY SIGN	EACH	U-1	C-9/C-26	
	SIGN LIGHTING AND ELECTRICAL SIGNS				
631	SIGN SERVICE	EACH	U-1	C-9/C-26	
631	SIGN WIRED	EACH	U-1	C-9/C-26	
631	SIGN WIRED, OVERPASS STRUCTURE MOUNTED	EACH	U-1	C-9/C-26	
631	DISCONNECT SWITCH WITH ENCLOSURE, TYPE_	EACH	U-1	C-9/C-26	
631	SWITCH ENCLOSURE MOUNTING BRACKET ASSEMBLY	EACH	U-1	C-9/C-26	
631	BALLAST (integral or remote), TYPE ____	EACH	U-1	C-9/C-26	
631	BALLAST WIRING ENCLOSURE, TYPE ____	EACH	U-1	C-9/C-26	
631	BALLAST WIRING ENCLOSURE MOUNTING BRACKET	EACH	U-1	C-9/C-26	
631	PHOTOELECTRIC CONTROL	EACH	U-1	C-9/C-26	
631	MERCURY VAPOR LUMINAIRE, TYPE ____, WITH _____ - WATT LAMP	EACH	U-1	C-9/C-26	
631	CHANGEABLE MESSAGE SIGN, ELECTRICAL TYPE(limited, unlimited) MESSAGE	EACH	U-1	C-9/C-26	
631	CHANGEABLE MESSAGE SIGN, DRUM TYPE	EACH	U-1	C-9/C-26	
631	INTERNALLY ILLUMINATED FIXED MESSAGE SIGN, TYPE _____	EACH	U-1	C-9/C-26	
631	SIGN FLASHER ASSEMBLY	EACH	U-1	C-9/C-26	
631	SCHOOL SPEED LIMIT SIGN ASSEMBLY, __IN	EACH	U-1	C-9/C-26	
631	TIMER WITH ENCLOSURE	EACH	U-1	C-9/C-26	
631	REMOVAL OF (luminaire, disconnect switch, ballast, ect) AND (storage or reerection)	EACH	U-1	C-9/C-26	

I T E M	DESCRIPTION	UNITS: ACCURACY REQUIRED Daily Entries, Estimates And Finals	C O D E	F O R M	T K T S
	TRAFFIC SIGNAL EQUIPMENT				
632	VEHICULAR SIGNAL HEAD, ___-SECTION ___ IN LENS _____-WAY	EACH	U-1	C-9/C-26	
632	VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED, ___-SECTION, ___ IN LENS, ___ WAY	EACH	U-1	C-9/C-26	
632	PEDESTRIAN SIGNAL HEAD, TYPE ____	EACH	U-1	C-9/C-26	
632	PEDESTRIAN PUSHBUTTON	EACH	U-1	C-9/C-26	
632	LOOP DETECTOR UNIT	EACH	U-1	C-9/C-26	
632	DETECTOR LOOP	EACH	U-1	C-9/C-26	
632	MAGNETOMETER DETECTOR UNIT	EACH	U-1	C-9/C-26	
632	MAGNETOMETER SENSOR PROBE	EACH	U-1	C-9/C-26	
632	STRAIN POLE FOUNDATION	EACH	U-1	C-9/C-26	
632	SIGNAL SUPPORT FOUNDATION	EACH	U-1	C-9/C-26	
632	PEDESTAL FOUNDATION	EACH	U-1	C-9/C-26	
632	SIGNAL SUPPORT, TYPE TC-____, DESIGN ____	EACH	U-1	C-9/C-26	
632	COMBINATION SIGNAL SUPPORT, TYPE TC-____, DESIGN ____	EACH	U-1	C-9/C-26	
632	STRAIN POLE, TYPE TC-____, DESIGN ____	EACH	U-1	C-9/C-26	
632	COMBINATION STRAIN POLE, TYPE TC-____, DESIGN ____	EACH	U-1	C-9/C-26	
632	STRAIN POLE EMBEDDED, TYPE TC-____, DESIGN ____	EACH	U-1	C-9/C-26	
632	COMB. STRAIN POLE EMBEDDED, TYPE TC-____ DESIGN - ____	EACH	U-1	C-9/C-26	
632	WOOD POLE, CLASS ____, (length) FT	EACH	U-1	C-9/C-26	
632	DOWN GUY	EACH	U-1	C-9/C-26	
632	PEDESTAL, (length) FT	EACH	U-1	C-9/C-26	
632	PEDESTAL, (length) FT, TRANSFORMER BASE	EACH	U-1	C-9/C-26	
632	CONDUIT RISER, _____ IN DIA.	EACH	U-1	C-9/C-26	
632	MESSENGER WIRE, (no.) STRAND ____ IN	0.1 FOOT	L-1	C-9/C-26	
632	SIGNAL CABLE, _____-CONDUCTOR NO. __AWG	0.1 FOOT	L-1	C-9/C-26	
632	INTERCONNECT CABLE, _____-CONDUCTOR No. __	0.1 FOOT	L-1	C-9/C-26	
632	INTERCONNECT CABLE, INTEGRAL MESSENGER WIRE TYPE, _____-CONDUCTOR No. __AWG	0.1 FOOT	L-1	C-9/C-26	

I T E M	DESCRIPTION	UNITS: ACCURACY REQUIRED Daily Entries, Estimates And Finals	C O D E	F O R M	T K T S
632	LOOP DETECTOR LEAD-IN CABLE	0.1 FOOT	L-1	C-9/C-26	
632	MAGNETOMETER LEAD-IN CABLE	0.1 FOOT	L-1	C-9/C-26	
632	POWER CABLE, ___-CONDUCTOR No. ___AWG	0.1 FOOT	L-1	C-9/C-26	
632	SERVICE CABLE, ___-CONDUCTOR No. ___AWG	0.1 FOOT	L-1	C-9/C-26	
632	POWER SERVICE	EACH	U-1	C-9/C-26	
632	COVERING OF VEHICULAR SIGNAL HEAD	EACH	U-1	C-9/C-26	
632	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	EACH	U-1	C-9/C-26	
632	REMOVAL OF (item) AND (storage or reerection)	EACH	U-1	C-9/C-26	
632	REUSE OF (item)	EACH	U-1	C-9/C-26	
633	CONTROLLER, PRETIMED,(123)DIAL, ELECTROMECHANICAL, (master/secondary)	EACH	U-1	C-9/C-26	
633	CONTROLLER, PRETIMED,(number) CIRCUIT, SOLID STATE(digital microprocessor)	EACH	U-1	C-9/C-26	
633	CONTROLLER, ACTUATED,(number) PHASE, SOLID STATE (modular by phase)	EACH	U-1	C-9/C-26	
633	COORDINATOR, (123) DIAL, ELECTRO.	EACH	U-1	C-9/C-26	
633	COORDINATOR, MULTI-DIAL SOLID STATE	EACH	U-1	C-9/C-26	
633	COORDINATOR, TIME BASED	EACH	U-1	C-9/C-26	
633	COORDINATOR, OFFSET	EACH	U-1	C-9/C-26	
633	PREEMPTION (by type)	EACH	U-1	C-9/C-26	
633	CABINET, WITHOUT CONTROLLER PREWIRED	EACH	U-1	C-9/C-26	
633	TIME SWITCH, (solid state digital)	EACH	U-1	C-9/C-26	
633	WEEKLY PROGRAMER,() CIRCUIT,(solid state)	EACH	U-1	C-9/C-26	
633	RELAY, (directional, delay, calling)	EACH	U-1	C-9/C-26	
633	CONCRETE FOR CABINET FOUNDATION	0.1 CU. YARD	V-2	C-26/SUP	
633	CONTROLLER WORK PAD	0.1 SQ. YARD	A-1	C-26/SUP	
633	FLASHER CONTROLLER	EACH	U-1	C-9/C-26	
	WATERWORKS				
638	___IN WATER MAIN, DUCTILE IRON, ANSI CLASS ____, JOINTS AND FITTINGS	0.1 FOOT	L-1	C-26	

I T E M	DESCRIPTION	UNITS: ACCURACY REQUIRED Daily Entries, Estimates And Finals	C O D E	F O R M	T K T S
638	___IN WATER MAIN, POLYVINYL CHLORIDE PIPE AND FITTINGS	0.1 FOOT	L-1	C-26	
638	___IN COPPER SERVICE BRANCH	0.1 FOOT	L-1	C-26	
638	___IN POLYETHYLENE SERVICE BRANCH	0.1 FOOT	L-1	C-26	
638	___IN POLYBUTYLENE SERVICE BRANCH	0.1 FOOT	L-1	C-26	
638	POLYETHYLENE ENCASEMENT	0.1 FOOT	L-1	C-26	
638	___IN STEEL PIPE ENCASEMENT (open cut, bored)	0.1 FOOT	L-1	C-26	
638	___IN GATE VALVE AND VALVE BOX	EACH	U-1	C-26	
638	___IN INSERTING VALVE AND VALVE BOX	EACH	U-1	C-26	
638	___IN CUTTING-IN SLEEVE, VALVE, AND BOX	EACH	U-1	C-26	
638	___IN X___IN TAPPING SLEEVE, VALVE & BOX	EACH	U-1	C-26	
638	METER, SETTING, STOP AND CHAMBER	EACH	U-1	C-26	
638	FIRE HYDRANT EXTENDED AND ADJUSTED	EACH	U-1	C-26	
638	FIRE HYDRANT ADJUSTED TO GRADE	EACH	U-1	C-26	
638	FIRE HYDRANT REMOVED AND RESET	EACH	U-1	C-26	
638	FIRE HYDRANT AND GATE VALVE REMOVED AND RESET	EACH	U-1	C-26	
638	FIRE HYDRANT REMOVED AND DISPOSED OF	EACH	U-1	C-26	
638	VALVE BOX ADJUSTED TO GRADE	EACH	U-1	C-26	
638	SERVICE BOX ADJUSTED TO GRADE	EACH	U-1	C-26	
638	METER AND CHAMBER REMOVED AND RESET	EACH	U-1	C-26	
638	SHEETING AND BRACING LEFT IN PLACE	0.1 CU. YARD	V-2	C-26/SUP	
	PAVEMENT MARKINGS				
642	EDGE LINE, TYPE___	0.1 MILE	L-6	C-46	
642	LANE LINE, TYPE _____	0.1 MILE	L-6	C-46	
642	CENTER LINE, TYPE ____	0.1 MILE	L-6	C-46	
642	CHANNELIZING LINE, TYPE _____	1 FOOT	L-1	C-26	
642	STOP LINE, TYPE _____	1 FOOT	L-1	C-26	
642	CROSSWALK LINE, TYPE _____	0.1 FOOT	L-1	C-26	
642	TRANSVERSE LINE, TYPE _____	0.1 FOOT	L-1	C-26	

I T E M	DESCRIPTION	UNITS: ACCURACY REQUIRED Daily Entries, Estimates And Finals	C O D E	F O R M	T K T S
642	CURB MARKING, TYPE _____	0.1 FOOT	L-1	C-26	
642	ISLAND MARKING, TYPE _____	0.1 SQ. YARD	A-1	C-26	
642	HANDICAP SYMBOL MARKING, TYPE _____	EACH	U-1	C-26	
642	RAILROAD SYMBOL MARKING, TYPE _____	EACH	U-1	C-26	
642	SCHOOL SYMBOL MARKING, ___IN, TYPE _____	EACH	U-1	C-26	
642	PARKING LOT STALL MARKING, TYPE _____	0.1 FOOT	L-1	C-26	
642	LANE ARROW, TYPE _____	EACH	U-1	C-26	
642	WORD ON PAVEMENT, ___IN, TYPE _____	EACH	U-1	C-26	
642	DOTTED LINE, ___IN, TYPE _____	1 FOOT	L-1	C-26	
642	REMOVAL OF PAVEMENT MARKING	1 FOOT 0.1 SQ. YARD	L-1 A-1	C-26 C-26 SUP	
642	TWO-WAY RADIO EQUIPMENT	LUMP SUM	LS-1	CMS-1	
643	EDGE LINE	0.1 MILE	L-6	C-46	
643	LANE LINE	0.1 MILE	L-6	C-46	
643	CENTER LINE	0.1 MILE	L-6	C-46	
643	CHANNELIZING LINE	0.1 FOOT	L-1	C-26	
643	STOP LINE	0.1 FOOT	L-1	C-26	
643	CROSSWALK LINE	0.1 FOOT	L-1	C-26	
643	TRANSVERSE LINE	0.1 FOOT	L-1	C-26	
643	CURB MARKING	0.1 FOOT	L-1	C-26	
643	ISLAND MARKING	0.1 SQ. YARD	A-1	C-26	
643	HANDICAP SYMBOL MARKING	EACH	U-1	C-26	
643	RAILROAD SYMBOL MARKING	EACH	U-1	C-26	
643	SCHOOL SYMBOL MARKING, ___IN	EACH	U-1	C-26	
643	PARKING LOT STALL MARKING	0.1 FOOT	L-1	C-26	
643	LANE ARROW	EACH	U-1	C-26	
643	WORD ON PAVEMENT ___IN	EACH	U-1	C-26	
643	DOTTED LINE, ___IN	1 FOOT	L-1	C-26	
643	REMOVAL OF PAVEMENT MARKING	1 FOOT 0.1 SQ. YARD	L-1 A-1	C-26 C-26 SUP	

I T E M	DESCRIPTION	UNITS: ACCURACY REQUIRED Daily Entries, Estimates And Finals	C O D E	F O R M	T K T S
643	TWO-WAY RADIO EQUIPMENT	LUMP SUM	LS-1	CMS-1	
644	EDGE LINE	0.1 MILE	L-6	C-46	
644	LANE LINE	0.1 MILE	L-6	C-46	
644	CENTER LINE	0.1 MILE	L-6	C-46	
644	CHANNELIZING LINE	0.1 FOOT	L-1	C-26	
644	STOP LINE	0.1 FOOT	L-1	C-26	
644	CROSSWALK LINE	0.1 FOOT	L-1	C-26	
644	TRANSVERSE LINE	0.1 FOOT	L-1	C-26	
644	HANDICAP SYMBOL MARKING	EACH	U-1	C-26	
644	RAILROAD SYMBOL MARKING, ____IN	EACH	U-1	C-26	
644	SCHOOL SYMBOL MARKING, ____IN	EACH	U-1	C-26	
644	PARKING LOT STALL MARKING	0.1 FOOT	L-1	C-26	
644	LANE ARROW	EACH	U-1	C-26	
644	WORD ON PAVEMENT, ____IN	EACH	U-1	C-26	
644	DOTTED LINE, ____IN	0.1 FOOT	L-1	C-26	
644	REMOVAL OF PAVEMENT MARKING	1 FOOT 0.1 SQ. YARD	L-1 A-1	C-26 C-26 SUP	
644	TWO-WAY RADIO EQUIPMENT	LUMP SUM	LS-1	CMS-1	
645	EDGE LINE, TYPE ____	0.1 MILE	L-6	C-46	
645	LANE LINE, TYPE ____	0.1 MILE	L-6	C-46	
645	CENTER LINE, TYPE ____	0.1 MILE	L-6	C-46	
645	CHANNELIZING LINE, TYPE ____	0.1 FOOT	L-1	C-26	
645	STOP LINE, TYPE ____	0.1 FOOT	L-1	C-26	
645	CROSSWALK LINE, TYPE ____	0.1 FOOT	L-1	C-26	
645	TRANSVERSE LINE, TYPE ____	0.1 FOOT	L-1	C-26	
645	HANDICAP SYMBOL MARKING, TYPE ____	EACH	U-1	C-26	
645	RAILROAD SYMBOL MARKING, TYPE ____	EACH	U-1	C-26	
645	SCHOOL SYMBOL MARKING, ____IN, TYPE ____	EACH	U-1	C-26	

I T E M	DESCRIPTION	UNITS: ACCURACY REQUIRED Daily Entries, Estimates And Finals	C O D E	F O R M	T K T S
645	PARKING LOT STALL MARKING, TYPE _____	0.1 FOOT	L-1	C-26	
645	LANE ARROW, TYPE _____	EACH	U-1	C-26	
645	WORD ON PAVEMENT, ___ IN, TYPE _____	EACH	U-1	C-26	
645	DOTTED LINE, _____ IN, TYPE _____	1 FOOT	L-1	C-26	
645	REMOVAL OF PAVEMENT MARKINGS	1 FOOT 0.1 SQ. YARD	L-1 A-1	C-26 C-26SUP	
645	TWO-WAY RADIO EQUIPMENT	LUMP SUM	LS-1	CMS-1	
	ROADSIDE				
651	TOPSOIL STOCKPILED	1 CU. YARD	V-3	C-26SUP	
652	PLACING STOCKPILED TOPSOIL	1 CU. YARD	V-5	C-26SUP	
653	TOPSOIL FURNISHED AND PLACED	1 CU. YARD	V-5	C-26SUP	
654	RENOVATION EXISTING SOD	1 SQ. YARD	A-1	C-27	
654	COMMERCIAL FERTILIZER	1 TON	W-6	C-28	
655	SEEDING AND RENOVATING EXISTING SOD	1 SQ. YARD	A-1	C-27	
655	COMMERCIAL FERTILIZER	1 TON	W-6	C-28	
656	ROADSIDE CLEANUP	1 SQ. YARD	A-1	C-26/SUP	
657	RIPRAP FOR TREE PROTECTION	1 SQ. YARD	A-1	C-26/SUP	
658	TREE ROOT AERATION	1 CU. YARD	V-5	C-26 SUP	
659	COMMERCIAL FERTILIZER	1 TON	W-6	C-28	
659	AGRICULTURAL LIMING	1 TON	W-6	C-28	
659	SEEDING AND MULCHING	1 SQ. YARD	A-5	C-28	
659	SEEDING AND MULCHING FOR WILDLIFE	1 SQ. YARD	A-1	C27 ,C28	
659	REPAIR SEEDING AND MULCHING	1 SQ. YARD	A-1	C27, C28	
659	WATER	1 CU. YARD	V-8	C26 SUP	X
659	MOWING	1 SQ. YARD	A-1	C-26	
660	SODDING UNSTAKED	1 SQ. YARD	A-1	C-26	
660	SODDING STAKED	1 SQ. YARD	A-1	C-26	
660	SODDING REINFORCED	1 SQ. YARD	A-1	C-26	

I T E M	DESCRIPTION	UNITS: ACCURACY REQUIRED Daily Entries, Estimates And Finals	C O D E	F O R M	T K T S
661	TREE SEEDLING, (size), (species)	EACH	U-2	C-26	
661	PERENNIALS, (size), (species)	EACH	U-2	C-26	
661	GROUND COVER , (size), (species)	EACH	U-2	C-26	
661	DECIDUOUS SHRUB , (size), (species)	EACH	U-2	C-26	
661	EVERGREEN SHRUB, (size), (species)	EACH	U-2	C-26	
661	DECIDUOUS TREE, (size), (species)	EACH	U-2	C-26	
661	EVERGREEN TREE, (size), (species)	EACH	U-2	C-26	
662	LANDSCAPE WATERING	GALLON	V-8	C-26SUP	X
664	PLANTING SALVAGED PLANTS	EACH	U-2	C-26	
665	LARGE TREES MOVED AND RESET	EACH	U-2	C-26	
665	AGGREGATE FOR DRAIN PITS AND TREE HOLES	0.1 CU. YARD	V-2	C-26SUP	
666	PRUNING EXISTING TREES __IN TO __IN Dia.	EACH	U-2	C-26	
667	SEEDING AND JUTE MATTING	0.1 SQ. YARD	A-1	C-26	
668	SEEDING AND EXCELLSOR MATTING	0.1 SQ. YARD	A-1	C-26	
670	SLOPE EROSION CONTROL	0.1 SQ. YARD	A-1	C-26	
670	DITCH EROSION CONTROL	0.1 SQ. YARD	A-1	C-26	
671	SEEDING AND PAPER BLANKET	0.1 SQ. YARD	A-1	C-26	
672	SEEDING AND MULCHING W/ EROSION CONTROL NETTING	0.1 SQ. YARD	A-1	C-26	
673	SEEDING AND EROSION CONTROL BLANKET	0.1 SQ. YARD	A-1	C-26	

Ohio Department of Transportation Field Calculation and Measurement Verification

Ref. No.:	Item & Description:
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Proj. No.	County, Route, Section:
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Station Location			Plan Sheet	Field Quantity	Plan / Revised Quantity	Unit of Measure	Describe Location of Item Calculated
From	To	Side					

Calculation and / or Sketch or Additional Remarks

Special Notes:

Signature:	Date:
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Signature calculation check:	Date:
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Ohio Department of Transportation Field Calculation and Measurement Verification Substantiation of 659 Seeding Items

Proj. No.	County, Route, Section:			
Total area from measurements on C-27		m² (SY)	Area within 3m (10 feet) of berm edge	
Minus the following if included in the quantity above:	601 rock channel protection:		m ² (SY)	
	601 paved gutter:		m ² (SY)	
	601 concrete slope protection:		m ² (SY)	
	660 sodding:		m ² (SY)	
	667 seeding & jute matting:		m ² (SY)	
	Other:		m ² (SY)	
	Total to be deducted:		m ² (SY)	
	Net 659 Seeding by Measurement:		m ² (SY)	

Lime neutralizing power and equivalancy from Bulletin 472:		Normal rate of 256 kg/ 1000 m ² (46 lb/1000 sf)	Factor
Fertilizer type:		(12-12-12)=100%, (15-15-15)=80%, (18-18-18)=67%, (20-20-20)=60%, (24-24-24)=50%	
Seed Mix Type: (Urban / Rural)		Normal rate of 25 g/m ² (5 lb/1000sf)	
Winter Mulch type: (Straw / Hay)		Normal rate for straw 0.7 t/1000 m ² (3 Ton/acre), for hay 1.0 t/1000m ² (4.5 Ton/acre)	
Summer Mulch type: (Straw / Hay)		Normal rate for straw 0.5 t/1000 m ² (2 Ton/acre), for hay 0.7 t/1000m ² (3 Ton/acre)	
Emulsion type:		Normal rate 250 L/ton of mulch (60 Gal / Ton of mulch)	
Additional Emulsion along berm:		Additional rate of 125 L/ton of mulch (30 Gal / Ton of mulch)	

Material				factor	Quantity Required	Quantity Delivered	Unit	Item
Seed = Seeding Area		m ² (SY)	X				kg (lb)	(659 & 667)
Fertilizer = Seeding Area		m ² (SY)	X				kg (lb)	(659, 660, & 667)
Lime = Seeding Area		m ² (SY)	X				kg (lb)	(659, 660, & 667)
Mulch = Seeding Area		m ² (SY)	X				t (T)	(659)
Mulch = Near Berm Area		m ² (SY)	X					
Emulsion = Mulch		t (T)	X				L (Gal)	(659)
Emulsion = Near Berm Mulch		t (T)	X				L (Gal)	(659)

Dates of Application	
Seed	
Fertilizer	
Lime	
Straw	
Emulsion	

Special Notes:	
Signature:	Date:
Signature calculation check:	Date:

Ohio Department of Transportation Bituminous Concrete Inspection

Project No. _____ County, Route, Section _____
 Item No. _____ Description _____
 Reference No. _____ Contractor _____
 Weather and Temperature _____
 Existing Surface Condition _____

Beginning Ticket No.	Ending Ticket No.	Station Location From To	Lane	Plan Quantity	Used Quantity	Pay Quantity	Measured Width	Mix Temperature	Remarks

Conversion Factor _____ kg/m³ (pounds/cubic yard)
 Required Placement Rate (A) _____ kg/m² (pounds/square yard)
 Specification Tolerances (A ± 5%) _____ to _____ kg/m² (pounds/square yard)

	Test 1	Test 2	Test 3	Test 4	
Location of Test Section	_____	_____	_____	_____	
Plan Thickness	_____	_____	_____	_____	mm (inches)
Length of Test Section (B)	_____	_____	_____	_____	m (yards)
Width of Test Section (C)	_____	_____	_____	_____	m (yards)
Area of Test Section (B x C)	_____	_____	_____	_____	m ² (square yards)
Total Weight Placed (E)	_____	_____	_____	_____	kg (pounds)
Average Weight Placed per Area (E ÷ D)	_____	_____	_____	_____	kg/m ² (pounds/square yard)

Action Taken _____

Signed _____ Date _____

Notes

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