

PAVEMENT MARKINGS

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DOCUMENT THE LAYOUT OF THE EXISTING PAVEMENT MARKINGS INCLUDING EXISTING LANE AND SHOULDER WIDTHS IN A LOG AND SUBMIT TO THE DEPARTMENT FOR ACCEPTANCE. THE DEPARTMENT WILL NOT ALLOW THE CONTRACTOR TO PERFORM ANY PAVEMENT WORK FUNCTIONS (MILLING, OVERLAY, ETC.) UNTIL ACCEPTANCE OF THE SUBMITTED EXISTING MARKING LOG.

MARKINGS SHALL BE REPLACED IN KIND EXCEPT WHERE EXISTING MARKINGS DO NOT MEET THE CURRENT STANDARD CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL COORDINATE AND CORRABORATE THE PROPOSED LAYOUT OF ALL PAVEMENT MARKINGS PER APPLICABLE STANDARD CONSTRUCTION DRAWINGS WITH ODOT.

NO PERMANENT PAVEMENT MARKINGS OR RAISED PAVEMENT MARKERS SHALL BE PLACED UNTIL THE ODOT PROJECT ENGINEER HAS APPROVED THE LOCATION AND/OR LAYOUT OF THE WORK ZONE PAVEMENT MARKINGS.

PAVEMENT MARKINGS ON INTERSECTING ROADWAYS

THE EDGE LINE SHALL BE CONTINUED AROUND ALL RADII TO MATCH THE EXISTING EDGE LINE OF THE INTERSECTING ROUTE. IF THE INTERSECTING ROUTE HAS A CENTER LINE MARKING, THE CENTER LINE SHALL BE RE-STRIPED OVER THE AREA OF RESURFACING.

ITEM 618 - EDGE LINE RUMBLE STRIPE (ASPHALT CONCRETE)
ITEM 618 - CENTER LINE RUMBLE STRIPE (ASPHALT CONCRETE)
ITEM 874 - LONGITUDINAL JOINT PREPARATION

DESCRIPTION: THIS WORK CONSISTS OF GRINDING DEPRESSIONS (RUMBLE STRIPES) IN THE PAVEMENT.

CONSTRUCT RUMBLE STRIPES ACCORDING TO TRAFFIC STANDARD DRAWING TC-64.10.

LOCATION AND PLACEMENT RESTRICTIONS OF RUMBLE STRIPES: RUMBLE STRIPES ARE NOT TO BE USED AT LOCATIONS WHERE THE LANE WIDTH IS LESS THAN 11 FEET AND THE POSTED SPEED LIMIT IS LESS THAN 50 MPH.

LOCATE RUMBLE STRIPES ON THE PAVEMENT PER THE SPECIFICATIONS OF STANDARD DRAWING TC-64.10.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE RUMBLE STRIPES IN THE UNIT OF MILES COMPLETED IN PLACE. THE DEPARTMENT WILL MEASURE QUANTITIES AS THE LENGTH OF COMPLETED GRINDING, INCLUDING THE GAPS FOR INTERSECTIONS AND OTHER SECTIONS OF PAVEMENT NOT BEING GROUND BETWEEN THE BEGINNING STRAIGHT LINE MILEAGE AND THE ENDING STRAIGHT LINE MILEAGE FOR THE SEGMENTS LISTED IN THE PLANS.

BASIS OF PAYMENT: THE DEPARTMENT WILL NOT PAY FOR REPAIRING SURFACE DAMAGE AND EXTRANEIOUS MARKS CAUSED BY THE CONTRACTOR'S OPERATIONS. THE DEPARTMENT WILL PAY FOR THE PAVEMENT MARKINGS ITEM 642 TRAFFIC PAINT, SEPARATELY.

A QUANTITY OF 8.56 MILES OF ITEM 618 EDGE LINE, RUMBLE STRIPE (ASPHALT CONCRETE) HAS BEEN CARRIED TO THE GENERAL SUMMARY. THE SEGMENT LOCATIONS ARE:

(PART. 1) LOG-117 FROM SLM 0.00 TO SLM 0.60

(PART. 1) LOG-117 FROM SLM 1.30 TO SLM 2.02

(PART. 2) LOG-117 FROM SLM 2.02 TO SLM 3.62

(PART. 2) LOG-117 FROM SLM 4.35 TO SLM 5.71

A QUANTITY OF 6.53 MILES OF ITEM 618 CENTER LINE, RUMBLE STRIPE (ASPHALT CONCRETE) HAS BEEN CARRIED TO THE GENERAL SUMMARY. THE SEGMENT LOCATIONS ARE:

(PART. 1) LOG-117 FROM SLM 0.00 TO SLM 0.60

(PART. 1) LOG-117 FROM SLM 1.30 TO SLM 2.02

(PART. 2) LOG-117 FROM SLM 2.02 TO SLM 3.62

(PART. 2) LOG-117 FROM SLM 4.35 TO SLM 5.71

(PART. 3) LOG-638 FROM SLM 0.00 TO SLM 2.25

A QUANTITY OF 6.53 MILES OF ITEM 874 LONGITUDINAL JOINT PREPARATION HAS BEEN CARRIED TO THE GENERAL SUMMARY. THE SEGMENT LOCATIONS ARE:

(PART. 1) LOG-117 FROM SLM 0.00 TO SLM 0.60

(PART. 1) LOG-117 FROM SLM 1.30 TO SLM 2.02

(PART. 2) LOG-117 FROM SLM 2.02 TO SLM 3.62

(PART. 2) LOG-117 FROM SLM 4.35 TO SLM 5.71

(PART. 3) LOG-638 FROM SLM 0.00 TO SLM 2.25

PAVEMENT MARKINGS: THE RUMBLE STRIPE SHALL BE DUST-FREE AND DRY WHEN THE PAVEMENT MARKINGS ARE APPLIED.

AC GAUGE OFFSET, AS PER PLAN

FOLLOW CMS 403, EXCEPT AS FOLLOWS:

-OFFSET THE AC GAUGE FOR EACH JMF FOR THE PROJECT PRIOR TO THE PROJECT'S START USING 403.06.A. AND THE MODIFIED SUPPLEMENT 1043 PROCEDURE BELOW.

-DURING S-1043.07 PROCESS, A RAP SAMPLE OBTAINED FROM THE JMF-DESIGNATED RAP PILE WILL BE EXTRACTED IN THE ASPHALT LEVEL 3 LAB TO VERIFY THE RAP AC PERCENT. THE RAP AC PERCENT WILL BE WITHIN 0.5 PERCENT OF THE AVERAGE RAP AC PERCENT FROM THE JMF. IF RAP AC PERCENT IS OUTSIDE OF THE 0.5 PERCENT, THE VERIFICATION PAN PROCESS WILL STOP, AND DISTRICT TESTING WILL ALLOW ONE OPPORTUNITY TO REWORK THE RAP PILE AT THE MIX PLANT AND RESAMPLE. RESAMPLING REQUIRES DISTRICT TESTING TO BE PRESENT. IF THE RESAMPLE IS STILL OUTSIDE OF THE 0.5 PERCENT, THE JMF AND ALL JMF'S USING THIS PILE WILL BE RESCINDED AND NEED TO BE REDESIGNED.

FOLLOW 403.06 EXCEPT AS FOLLOWS:

-ENSURE ASPHALT BINDER CONTENT DOES NOT EXCEED TABLE 403.06.G-1. TOTAL AC PERCENT ADJUSTMENTS TO THE MIX PLANT CONTROL SETTINGS MUST BE SUBMITTED TO AND APPROVED BY DISTRICT TESTING PRIOR TO MAKING THE ADJUSTMENT. THE ADJUSTMENT CANNOT EXCEED +/- 0.2 PERCENT FROM THE JMF DESIGN AC PERCENT. DO NOT LOWER VIRGIN BINDER CONTENT OR INCREASE RAP PERCENT. ENSURE PLANT TICKET SHOWS THE ADJUSTMENT AND IS SET TO THE ADJUSTED TOTAL AC PERCENT AT ALL TIMES AFTERWARDS.

-RECORD THE DAILY VERIFICATION PAN RESULTS IN A SEPARATE WORKSHEET AND MAKE SURE IT'S POSTED IN THE PLANT FACILITY AND AVAILABLE TO THE MONITORS. INCLUDE THE DATE RAN, VERIFICATION PAN RESULT, AND INITIALS OF WHO RAN IT. ENSURE A PRINTOUT OF THE DAILY VERIFICATION PAN IS ALSO INCLUDED WITH THE TE-199. FOLLOW SUPPLEMENT 1043 FOR AC GAUGE OFFSET, EXCEPT AS MODIFIED BELOW:

FOLLOW 1043.07 EXCEPT AS FOLLOWED:

-NOTIFY DISTRICT TESTING A MINIMUM OF ONE WEEK PRIOR TO MAKING CALIBRATION AND VERIFICATION PANS.

-DISTRICT TESTING WILL WITNESS A SOLVENT EXTRACTION FROM A SAMPLE FROM THE RAP PILE THAT IS TO BE USED IN THE JMF TO VERIFY THE RAP AC PERCENT AND GRADATION. RAP AC PERCENT WILL BE WITHIN 0.5 PERCENT OF RAP AC PERCENT AND THE PASSING THE NO. 4 SIEVE WITH BE WITHIN 5 PERCENT OF THE NO. 4 SIEVE BASED ON THE ESTABLISHED RAP PILE USED IN THE JMF. IF OUTSIDE OF 0.5 PERCENT, DO NOT PROCEED AND THE JMF WILL NEED TO BE REDESIGNED.

-DISTRICT TESTING WILL WITNESS THE VERIFICATION PANS BEING BLENDED, MIXED, AND COMPACTED.

-MAKE A MINIMUM OF THREE VERIFICATION PANS FOR THE JMF THAT ARE AT THE JMF ASPHALT BINDER CONTENT. MAKE ONE ADDITIONAL VERIFICATION PAN FOR EACH ADDITIONAL DISTRICT THE JMF WILL BE USED IN.

-IN ADDITION, TURN POSSESSION OVER OF THE CALIBRATION AC GAUGE PANS USED TO DETERMINE THE FIT COEFFICIENT TO DISTRICT TESTING.

FOR AC CONTENT PAY ACCEPTANCE, REPLACE 1043.08 WITH THE FOLLOWING:

CALCULATE AN AC GAUGE OFFSET AMOUNT FOR EACH JMF AND MIX PLANT IN ACCORDANCE WITH THE FOLLOWING PROCEDURE PRIOR TO START OF ANY PRODUCTION FOR THE JMF. NOTIFY DISTRICT TESTING 24 HOURS PRIOR TO OFFSETTING GAUGE.

AC GAUGE OFFSET, AS PER PLAN (CONTINUED)

- ENSURE PRINTER IS ON AND PLACE THE FIRST VERIFICATION PAN IN THE AC GAUGE AND RUN.
 - AFTER THE 16-MINUTE TEST, TAKE THE VERIFICATION PAN OUT AND TURN 180 DEGREES AND PLACE BACK IN AC GAUGE AND RUN.
 - REPEAT STEPS 1 AND 2 WITH SECOND AND THIRD VERIFICATION PANS.
 - FOR EACH RUN, TAKE THE JMF ASPHALT BINDER CONTENT MINUS THE AC GAUGE AC PERCENT TO OBTAIN THE OFFSET FOR THAT RUN.
 - AVERAGE ALL OFFSETS FOR A FINAL OFFSET.
 - RETAIN ALL OF THE VERIFICATION PANS. AFTER THE FINAL OFFSET IS DETERMINED, DISTRICT TESTING WILL CHOOSE TWO OF THE VERIFICATION PANS AND SEND ONE OF THESE TWO TO OMM TO EXTRACT AND REFLUX.
 - DISTRICT TESTING WILL USE THE TWO VERIFICATION PANS TO OFFSET THEIR AC GAUGE. DISTRICT TESTING MAY OPT TO TAKE ALL THREE PANS AND OFFSET THEIR AC GAUGE.
 - STORE THE VERIFICATION PAN IN THE PLANT LAB AND IN A MANNER IN WHICH TO AVOID HUMIDITY, MOISTURE, AND ALL OTHER SOURCES WHICH MAY POTENTIALLY CONTAMINATE THE SAMPLE IN THE PAN.
- BEFORE THE BEGINNING OF A PRODUCTION DAY, RUN THE VERIFICATION PAN IN THE AC GAUGE AND ENSURE THE OFFSET AC GAUGE AMOUNT IS WITHIN 0.14 PERCENT OF THE JMF ASPHALT BINDER CONTENT. NOTIFY THE DEPARTMENT IF THE AC GAUGE EXCEEDS 0.14 PERCENT OF THE JMF. IF THE VERIFICATION PAN EXCEEDS ON THE HIGH SIDE AND IT**1/2%\$ BELIEVED TO BE DUE TO EXCESS MOISTURE FROM HUMIDITY, THE DEPARTMENT MAY ALLOW THE VERIFICATION PAN TO BE PLACED IN AN OVEN AT 230 DEG F (110 DEG C) FOR ONE HOUR AND RERAN.
- DURING THE START OF PRODUCTION FOR THE JMF, SOLVENT EXTRACT THE FIRST TWO QA SAMPLES (QC, VA, AND SUBLOT) AND COMPARE TO THE OFFSET AC GAUGE. ENSURE SOLVENT EXTRACTION IS WITHIN 0.3 PERCENT OF OFFSET AC GAUGE. IF MORE THAN 0.3 PERCENT OFF, IMMEDIATELY RESAMPLE AND RUN AC GAUGE AND SOLVENT EXTRACT IMMEDIATELY. IF TWO CONSECUTIVE SAMPLES ARE MORE THAN 0.3 PERCENT OFF, IMMEDIATELY STOP PRODUCTION, CONTACT MONITORING TEAM, AND INVESTIGATE THE REASON FOR THE PROBLEM. ONCE TWO CONSECUTIVE QA SAMPLES ARE WITHIN 0.3 PERCENT OF OFFSET AC GAUGE, THE FINAL OFFSET GAUGE IS CONFIRMED.
- AFTER CONFIRMING THE AC GAUGE OFFSET AMOUNT PROCEED WITH DETERMINING AC CONTENTS OF PRODUCTION SAMPLES BY THE AC GAUGE ACCORDING TO 1043.09.
- ONLY DETERMINE ONE AC GAUGE OFFSET AMOUNT PER JMF. IF MORE THAN 30 DAYS HAS LAPSED SINCE THE JMF WAS LAST TESTED, RE-DO THE OFFSET PROCEDURE ABOVE WITH TWO VERIFICATION PANS (ONE FROM THE CONTRACTOR AND ONE FROM THE DISTRICT). IF THE THIRD PAN IS STILL AVAILABLE, USE ALL THREE PANS. IF AN AC GAUGE OFFSET AMOUNT IS LATER DETERMINED, BY AN INVESTIGATION OF BOTH THE CONTRACTOR AND THE DISTRICT, TO BE INCORRECT RE-DO THE OFFSET PROCEDURE.