METHOD 'E'

REPAIRS PERFORMED AT MID-SLAB OR A MINIMUM OF 6 FT. FROM AN EXISTING TRANSVERSE JOINT.

EXISTING TRANSVERSE JOINTS

EXISTING LONGITUDINAL JOINT

LONGITUDINAL TIE DEVICES REFER TO STANDARD WD. 572.61-01

DIRECTION OF TRAFFIC

FULL DEPTH SAW CUTS

EXISTING SHOULDER

6'-0" MIN. REPAIR LENGTH 6'-0" MIN.

PLAN

FOR JOINT DETAILS SEE STANDARD WD 577.07

EXISTING PAVEMENT

T = PAVEMENT THICKNESS

EXISTING BASE

PLAIN/SMOOTH LOAD TRANSFER DEVICES

SECTION A-A

REPAIR GUIDELINES

1. TYPE 1 REPAIRS ARE 6 FT. TO LESS THAN 15 FT. IN LENGTH AND REQUIRE NO REINFORCEMENT.
   TYPE 2 REPAIRS ARE 15 FT. AND GREATER IN LENGTH AND REQUIRE NO REINFORCEMENT.
   MAXIMUM TRANSVERSE JOINT SPACING SHALL BE 15 FT. AND THERE SHALL BE NO MID-SLAB REINFORCEMENT.
2. REPAIR SLABS AND REMAINS OF EXISTING SLABS SHALL NOT BE LESS THAN 6 FT. IN LENGTH.
3. EXISTING DOWELS AND ASSEMBLIES SHALL BE COMPLETELY REMOVED WHEN A REPAIR IS PERFORMED AT A TRANSVERSE JOINT.

NOTES

1. REPAIRS SHALL BE MADE IN ACCORDANCE WITH SECTION 522 OF THE SPECIFICATIONS.
2. REPAIRS SHALL BE MADE USING CONCRETE MEETING THE REQUIREMENTS OF 522.02 OF THE SPECIFICATIONS.
3. WHEN THE SUBBASE MATERIAL IS DETERMINED TO BE UNSUITABLE BY THE ENGINEER, COMPACT THE MATERIAL WITH A VIBRATORY COMPACTOR OR REMOVE THE UNSUITABLE MATERIAL AND REFILL WITH COMPACTED GRADED AGGREGATE BASE IN LIFTS NO GREATER THAN 4 INCHES IN DEPTH, AS DIRECTED BY THE ENGINEER.
4. HOLES FOR THE DOWELS AND LOAD TRANSFER TIE DEVICES SHALL BE DRILLED SIMULTANEOUSLY TO THE REQUIRED DEPTH USING FRAME MOUNTED DRILLS WHICH WILL MAINTAIN THE DRILLS IN A LONGITUDINALLY PARALLEL POSITION.
5. JOINTS SHALL BE MADE IN ACCORDANCE WITH SECTION 520 OF THE SPECIFICATIONS AND STANDARD WD 577.07.
6. ALL LOAD TRANSFER DOWELS SHALL BE EPOXY COATED.
7. SEE STANDARD WD 577.01 FOR PAVEMENT REPAIR SAW CUTS FOR LIFT OUT METHOD.
8. LOAD TRANSFER DEVICES: PLAIN DOWELS 18" LONG AND 12" C/C LOCATED IN EACH WHEEL PATH. WHEEL PATH IS DEFINED AS A DISTANCE OF 16" TO 56" (WIDTH OF 40") FROM THE LEFT OR RIGHT OF THE CENTERLINE OF THE ROADWAY TRAVEL LANE. REFER TO STANDARD WD 572.21.

SPECIFICATION

522

CATEGORY CODE ITEMS

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
METHOD 'E' PLAIN OR CONVENTIONALLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT TYPE 1 AND 2 REPAIRS

STANDARD NO. MD 577.06

APPROVED

DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT

SHA
STATE HIGHWAY ADMINISTRATION

APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
APPROVAL 3-18-86
REVISED 2-25-16
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