

**SECTION 421—BITUMINOUS BINDER COURSE ID-2 (STANDARD),
BITUMINOUS BINDER COURSE ID-2 (HEAVY DUTY),
BITUMINOUS BINDER COURSE ID-2, RPS (STANDARD),
AND BITUMINOUS BINDER COURSE ID-2, RPS (HEAVY DUTY)**

421.1 DESCRIPTION—This work is construction of a binder course of plant-mixed bituminous concrete on a prepared surface.

421.2 MATERIAL—[Section 420.2](#) with the following modifications:

(d) Mixture Composition.

2. Heavy Duty Bituminous Mixtures. Revised as follows:

Delete criteria for fines to asphalt content ratio and revise the JMF requirements and production limits as follows:

- JMF stability, at 60 °C (140F), not less than 8900 N (2,000 pounds) with a 100 mm (4-inch) test specimen, or not less than 20 000 N (4,500 pounds) with a 150 mm (6-inch) test specimen. Plant mixture stability, at 60 °C (140F), not less than 8000 N (1,800 pounds) with a 100 mm (4-inch) specimen, or not less than 18 000 N (4,000 pounds) with a 150 mm (6-inch) specimen.
- JMF flow value from 6 to 16 with a 100 mm (4-inch) test specimen, or from 9 to 24 with a 150 mm (6-inch) test specimen.
- JMF voids from 4.0% to 4.5%. Plant mixture voids from 3.5% to 6.5% for all plant compacted Marshall specimens.
- Minimum JMF percent VMA (Voids in Mineral Aggregate) of 13 and a minimum plant mixture VMA of 12.

421.3 CONSTRUCTION—[Section 420.3](#)

421.4 MEASUREMENT AND PAYMENT—

- (a) Bituminous Binder Course ID-2 (Standard).** Square Meter (Square Yard) or Tonne (Ton)
- (b) Bituminous Binder Course ID-2 (Heavy Duty).** Square Meter (Square Yard) or Tonne (Ton)
- (c) Leveling Course (Standard).** Tonne (Ton)
- (d) Leveling Course (Heavy Duty).** Tonne (Ton)
- (e) Bituminous Binder Course ID-2, RPS (Standard).** Square Meter (Square Yard) or Tonne (Ton)
- (f) Bituminous Binder Course ID-2 RPS (Heavy Duty).** Square Meter (Square Yard) or Tonne (Ton)