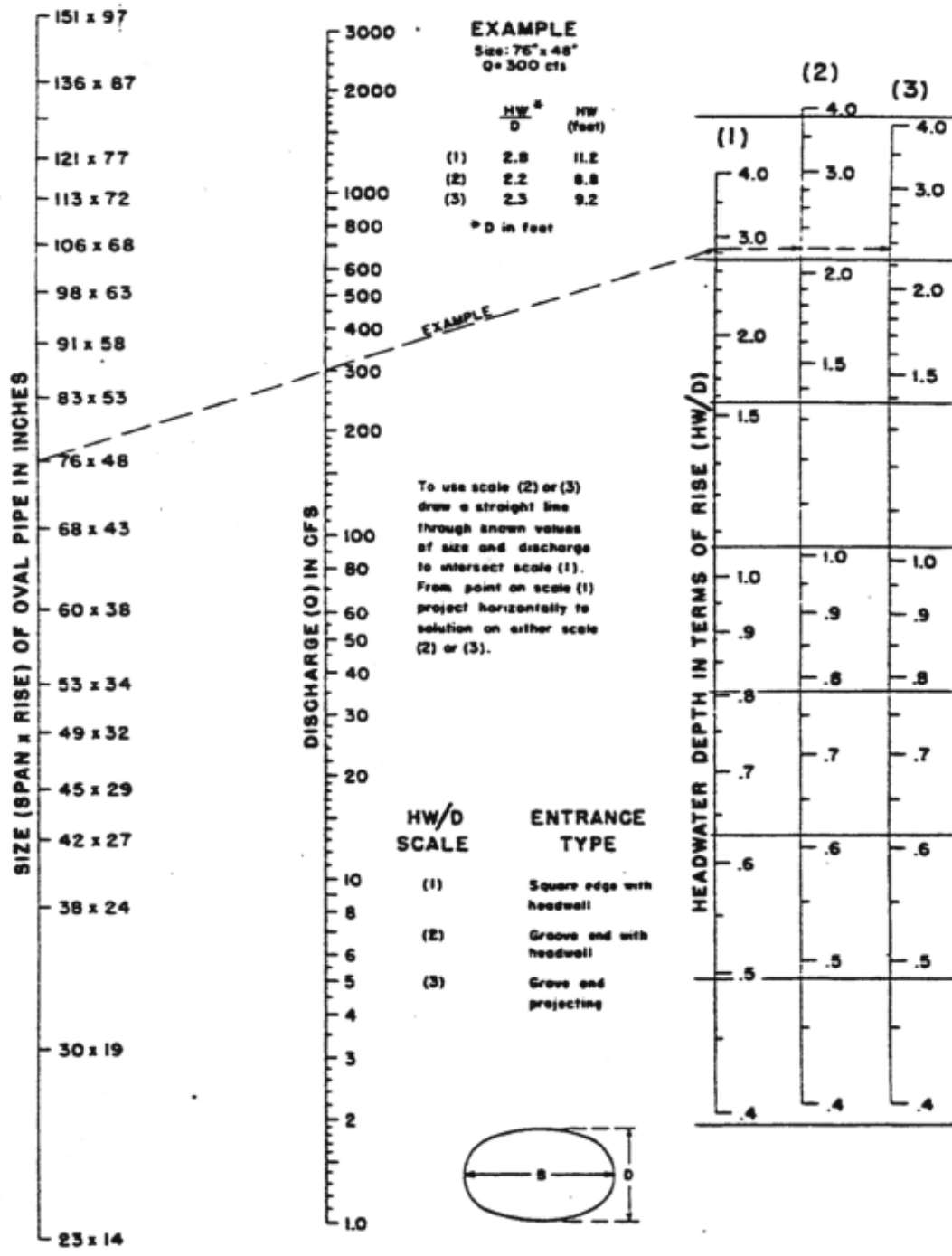


**Appendix
D.15**

**Miscellaneous MD SHA Design Charts
for Determining Pipe Inlet Control**

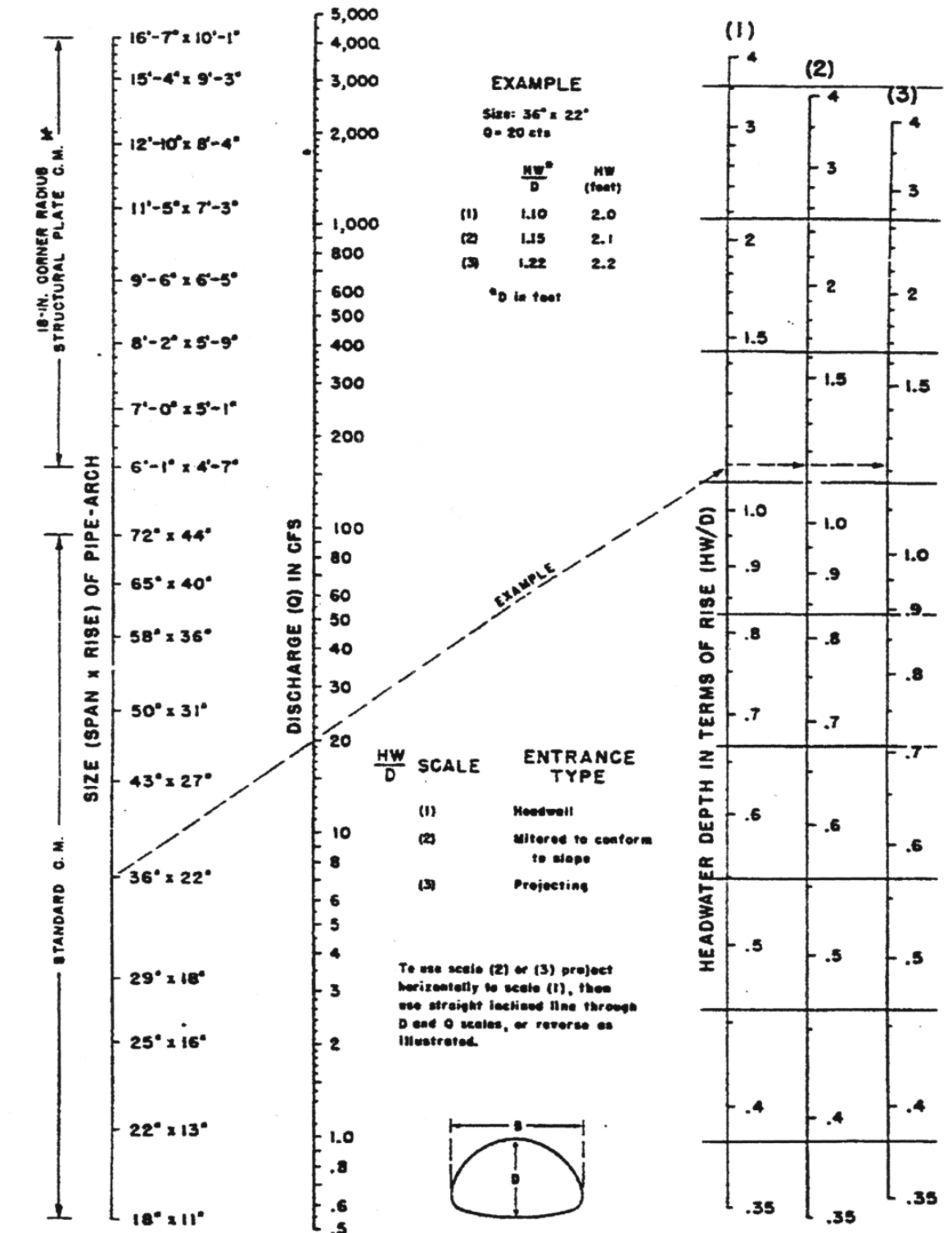
FIGURE D.15.1 HEADWATER DEPTH FOR OVAL CONCRETE PIPE CULVERTS



HEADWATER DEPTH FOR
 OVAL CONCRETE PIPE CULVERTS
 LONG AXIS HORIZONTAL
 WITH INLET CONTROL

ADAPTED FROM MARYLAND STATE HIGHWAY ADMINISTRATION I/63 SHA-61.1-420.3-1.0

FIGURE D.15.2 HEADWATER DEPTH FOR CMP ARCH CULVERTS WITH INLET CONTROL

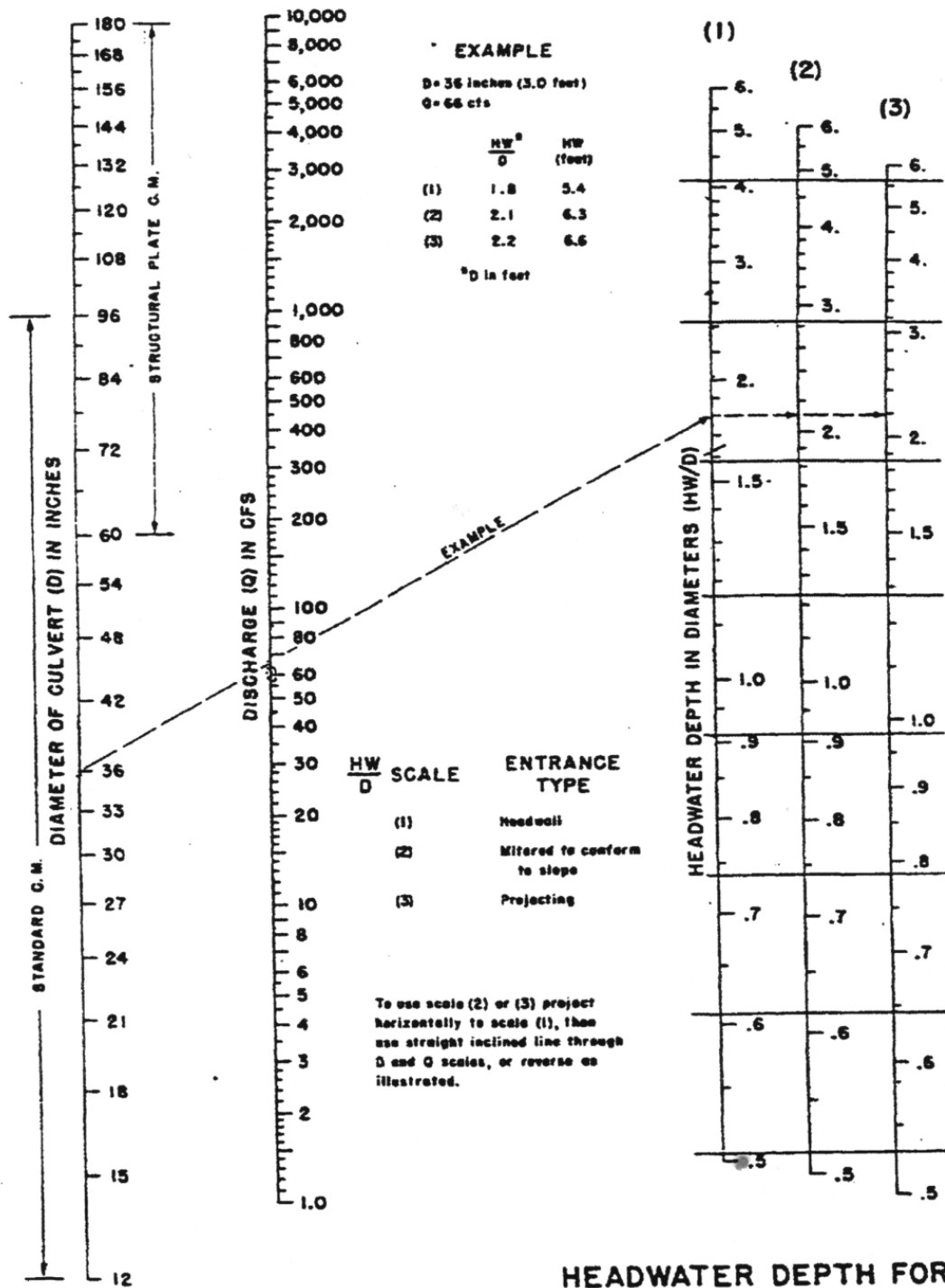


FOR ADDITIONAL SIZES THAT ARE NOT DIMENSIONED REFER TO CHARTS 442.00 AND 443.00

HEADWATER DEPTH FOR C. M. PIPE-ARCH CULVERTS WITH INLET CONTROL

ADAPTED FROM MARYLAND STATE HIGHWAY ADMINISTRATION I/63 SHA-61.1-420.2-2.0

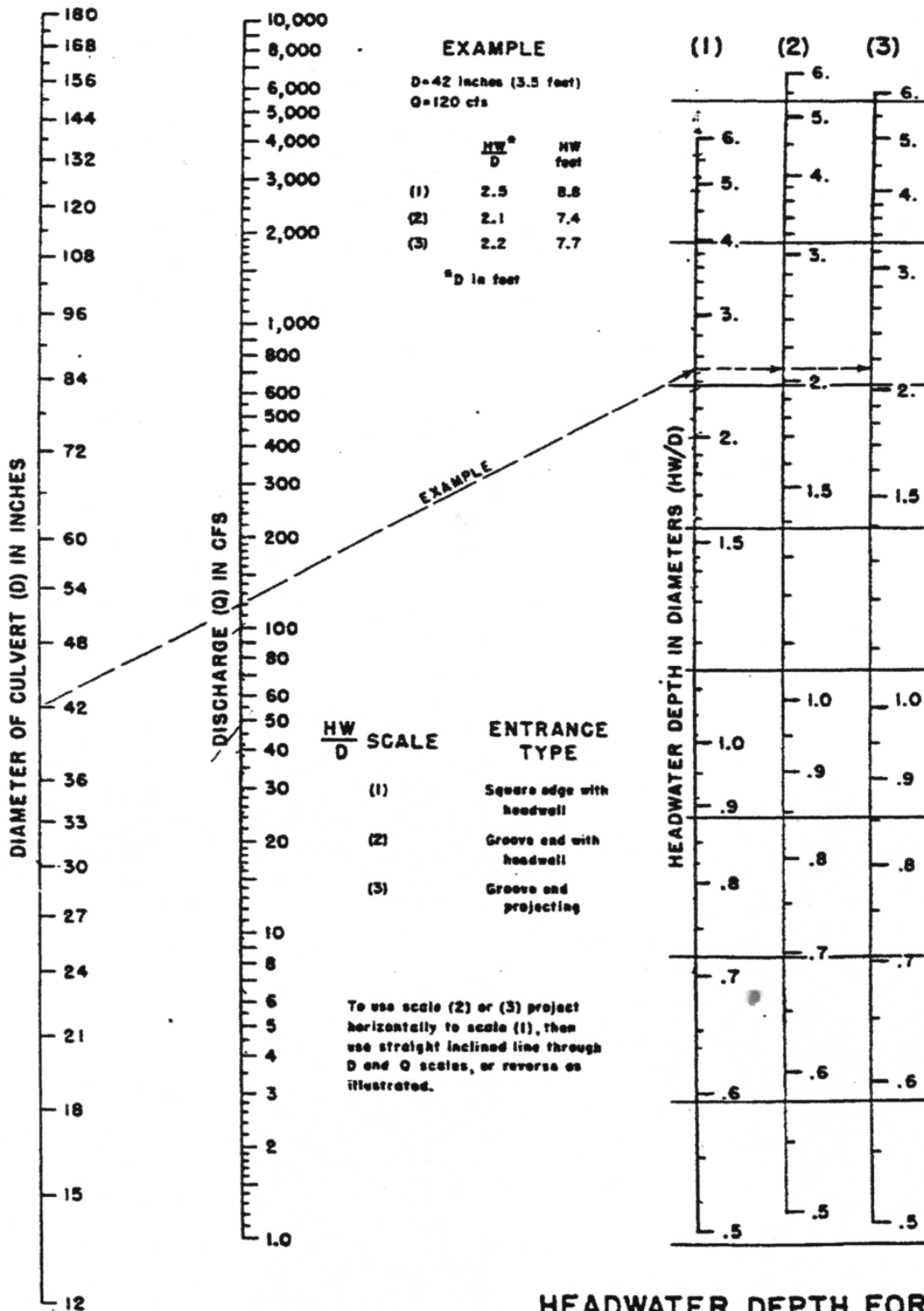
FIGURE D.15.3 HEADWATER DEPTH FOR CMP CULVERTS WITH INLET CONTROL



**HEADWATER DEPTH FOR
 C. M. PIPE CULVERTS
 WITH INLET CONTROL**

ADAPTED FROM MARYLAND STATE HIGHWAY ADMINISTRATION I/63 SHA-61.1-420.1-2.0

FIGURE D.15.4 HEADWATER DEPTH FOR CONCRETE PIPE CULVERTS WITH INLET CONTROL



HEADWATER DEPTH FOR CONCRETE PIPE CULVERTS WITH INLET CONTROL

HEADWATER SCALES 283
 REVISED MAY 1964

ADAPTED FROM MARYLAND STATE HIGHWAY ADMINISTRATION 5/64 SHA-61.1-420.1-1.0