

PROJECT: <u>Example 1</u> DESCRIPTION: _____ _____	Prepared by/Date: <u>SAB</u> / <u>2/4</u> Checked by/Date: <u>CJH</u> / <u>3/4</u> Sheet _____ of _____
--	---

Definition Sketch:

Q_{TOTAL} <u>140</u> Q_{MC} <u>140</u> Q_{LB} _____ Q_{RB} _____	Soil Characteristics: D_{15} <u>1.37 mm</u> D_{50} <u>12.2 mm</u> D_{85} <u>32 mm</u>
---	--

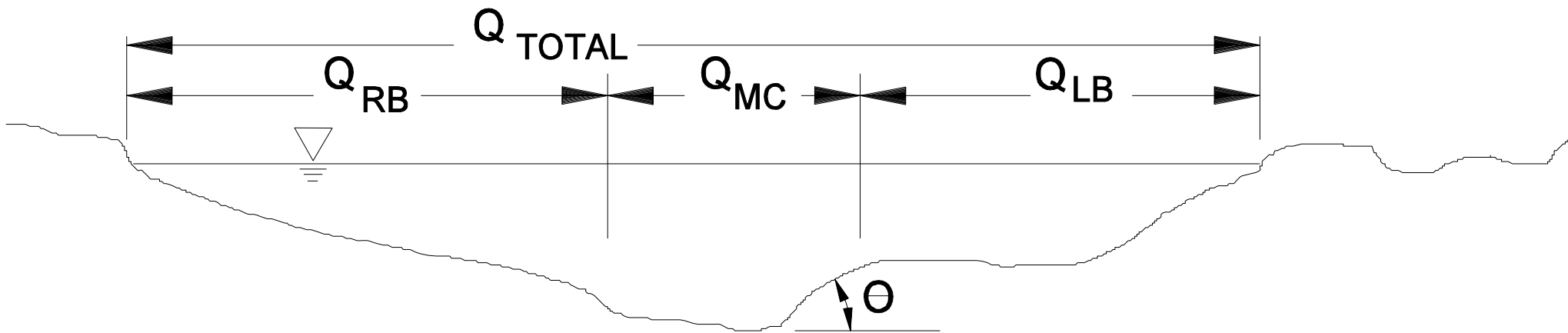
DEPTH OR W.S. (m) (1)	A (m ²) (2)	V _g (m/s) (3)	d _a (m) (4)	θ (5)	Φ (6)	K ₁ (7)	D ₅₀ (mm) (8)	SF (9)	S _s (10)	C (11)	C _{P/A} (12)	D ₅₀ (mm) (13)	NOTES (14)
3.60	47.8	2.96	3.60	2:1	41°	0.73	131	1.2	2.65	1	N/A	131	Bank
							85	1.2	2.65	1	N/A	85	Bed

Design Sketch:	<u>RIPRAP CHARACTERISTICS:</u> Size: _____ Thickness: _____ D_{50} <u>290</u> $2D_{50}$ <u>580</u> Class <u>Facing</u> D_{100} <u>395</u> AASHTO Use <u>600</u> Gradation: Size: _____ Percent _____ (mm) Finer <u>395</u> 100 <u>290</u> 50 <u>120</u> 5-10	<u>FABRIC CHARACTERISTICS:</u> <table style="width: 100%;"> <tr> <td style="text-align: right;">Granular:</td> <td style="text-align: center;">Size (mm)</td> <td style="text-align: center;">Percent Finer</td> </tr> <tr> <td></td> <td style="text-align: center;"><u>60</u></td> <td style="text-align: center;">85</td> </tr> <tr> <td></td> <td style="text-align: center;"><u>50</u></td> <td style="text-align: center;">50</td> </tr> <tr> <td></td> <td style="text-align: center;"><u>30</u></td> <td style="text-align: center;">15</td> </tr> </table> Fabric: AOS < _____ Perm. > _____ Average Opening Size	Granular:	Size (mm)	Percent Finer		<u>60</u>	85		<u>50</u>	50		<u>30</u>	15
Granular:	Size (mm)	Percent Finer												
	<u>60</u>	85												
	<u>50</u>	50												
	<u>30</u>	15												

- | | | |
|-----------------------------------|---|--|
| (1) Water surface elevation | (5) Bank angle | (9) Stability factor |
| (2) Main channel flow area | (6) Riprap angle of repose (Figure 38-6C) | (10) Riprap specific gravity |
| (3) Main channel average velocity | (7) Bank angle correction (Figure 38-6B) | (11) Riprap size correction factor (Figure 38-6E) |
| (4) Main channel average depth | (8) Riprap size (Figure 38-6A) | (12) Pier/abutment correction (3.38 if applicable) |
| | | (13) Correction $D_{50} = (8) \times (11) \times (12)$ |
| | | (14) Notes or comments |

RIPRAP SIZE FORM (Example 1)

Figure 38-6R



DEFINITION SKETCH

