

Appendix B



U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 Western Federal Lands Highway Division
 610 E. 5th St. Vancouver, Washington 98661

FP-03 109.02(b)(2)

Date Stamp
Copy Stamp

Project Name: _____
 Project Number: _____
 Date: _____

Hauling Vehicle Volume Certification

Truck Number: _____
 Owner: _____

Measurements & Calculations*:

*Attach additional sheets if necessary.

Unit of Measure _____
 Measured Volume _____

It is mutually agree to by _____ and Western Federal Lands Highway Division,
 the above listed vehicle will be paid for at the above measured volume.

Both parties agree to the following condition: Western Federal Lands Highway Division has the right to reduce the volume accordingly,
 for trucks which are not loaded to the agreed upon volume.

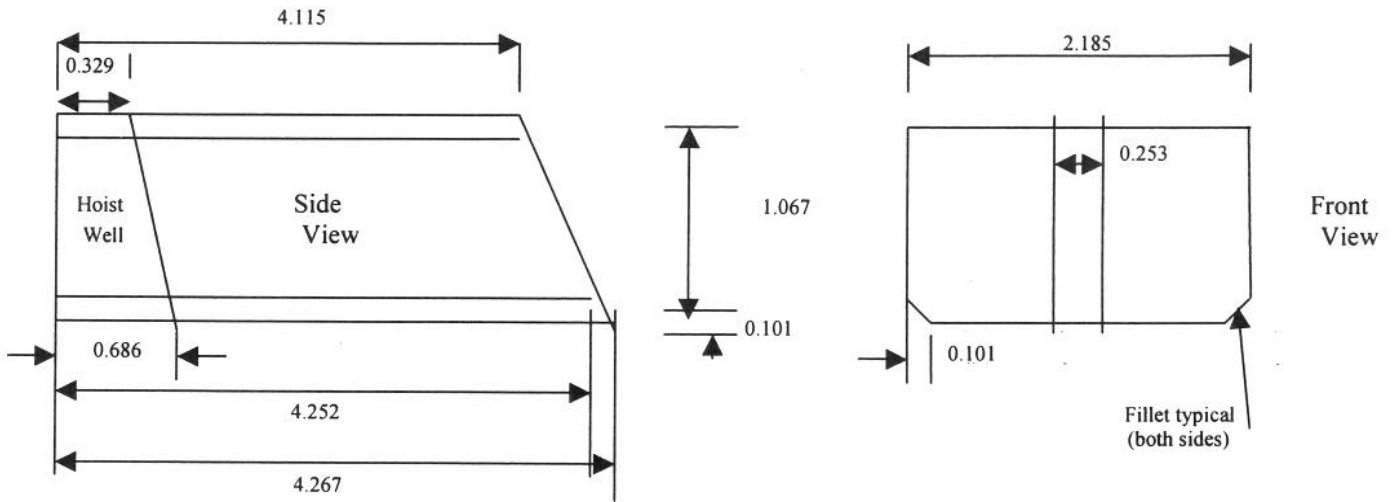
For the Contractor	
Company Name	_____
Signature	_____
Print	_____
Title	_____
Date	_____

For Western Federal Lands Highway Division	
Computed By	_____ Date _____
Approved	
Signature	_____
Title	_____
Date	_____

Truck Measurement Example

Truck No. ? (tractor)
 Trailer No. ? (belly dump)
 License No. XXXXX

Project Name XXXXXXXXXXXXXXX
 Project Number XX XXX XXXX (X)



(dimensions are meters unless otherwise noted)

Volume

$$\frac{4.115 + 4.267}{2} \times 2.185 \times 1.067 = 9.771$$

Less Hoist Well

$$\frac{0.686 + 0.329}{2} \times 0.253 \times 1.067 = -0.137 \text{ (minus)}$$

Less Fillets

$$\frac{0.101 \times 0.101}{2} \times \frac{4.252 + 4.267}{2} \times 2 = -0.043 \text{ (minus)}$$

$$\text{Total Volume} = 9.591 \text{ m}^3$$

NOTE

The above computations are for illustration only, and not necessarily part of survey notes. However, to ensure measurements are adequate, the surveyor might make at least rough computations for complicated shapes.

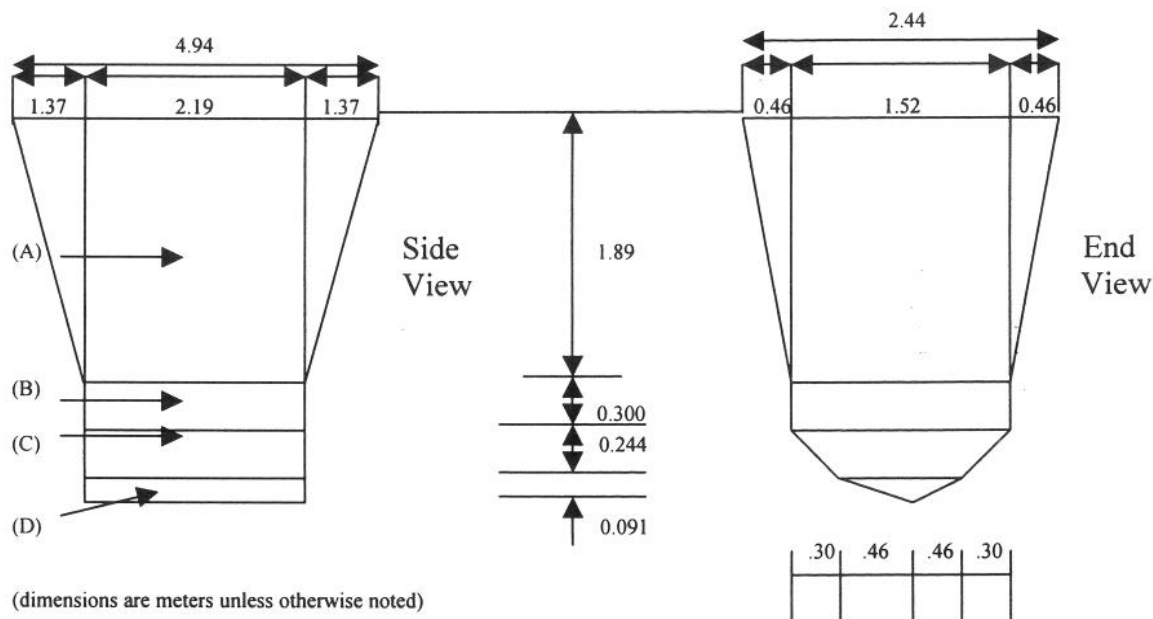
Composed By: _____

Checked By: _____

Truck Measurement Example

Truck No. ? (tractor)
 Trailer No. ? (belly dump)

Project Name XXXXXXXXXXXXXXXX
 Project Number XX XXX XXXX (X)



Volume (A) (Use prismatic formula, $V = \frac{h}{b} (A_1 + (4A_m + A_2))$)

$$h = 1.89$$

$$A_1 = 4.94 \times 2.44 = 12.05$$

$$A_2 = 2.19 \times 1.52 = 3.33$$

$$A_m = \frac{(4.94 + 2.19) \times (2.44 + 1.52)}{2} = 7.07$$

$$V = \frac{1.89}{b} (12.05 + (4 \times 7.07) + 3.33) = 13.753$$

Volume (B)

$$V = 2.19 \times 1.52 \times 0.30 = 0.999$$

Volume (C)

$$V = 2.19 \times \frac{1.52 + 0.92}{2} \times 0.244 = 0.652$$

Volume (D)

$$V = 2.19 \times \frac{0.92}{2} \times 0.091 = 0.092$$

$$\text{Total Volume} = 15.496 \text{ m}^3$$

Composed By: _____

Checked By: _____