

Area Calculation Between Subgrade & NSL

Filling

INITIAL AREA

$$1/2 (199.963+199.963) \times (10.343-9.000) = 268.550$$

$$1/2 (199.963+199.945) \times (9.000-6.000) = 599.862$$

$$1/2 (199.945+199.897) \times (6.000-3.000) = 599.763$$

$$1/2 (199.897+199.673) \times (3.000-0.000) = 599.355$$

$$1/2 (199.717+199.673) \times (3.000-0.000) = 599.085$$

$$1/2 (199.608+199.717) \times (6.000-3.000) = 598.988$$

$$1/2 (199.507+199.608) \times (9.000-6.000) = 598.673$$

$$1/2 (199.456+199.507) \times (11.032-9.000) = 405.346$$

4269.622

FINAL AREA

$$1/2 (199.963+201.884) \times (10.343-6.500) = 772.149$$

$$1/2 (201.884+201.884) \times (6.500-0.000) = 1312.246$$

$$1/2 (201.722+201.884) \times (6.500-0.000) = 1311.720$$

$$1/2 (199.456+201.722) \times (11.032-6.500) = 909.069$$

4305.184

Gross Fill —: 35.562

Net Area: $(35.562 - 0.000) = 35.562$ Sqm. (Filling)

Area Calculation Between GSB & Subgrade

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INITIAL AREA

$$1/2 (201.884+201.884) \times (6.400-0.000) = 1292.058$$

$$1/2 (201.724+201.884) \times (6.420-0.000) = 1295.582$$

2587.639

FINAL AREA

$$1/2 (201.884+202.084) \times (6.400-6.000) = 80.794$$

$$1/2 (202.084+202.084) \times (6.000-0.000) = 1212.504$$

$$1/2 (201.934+202.084) \times (6.000-0.000) = 1212.054$$

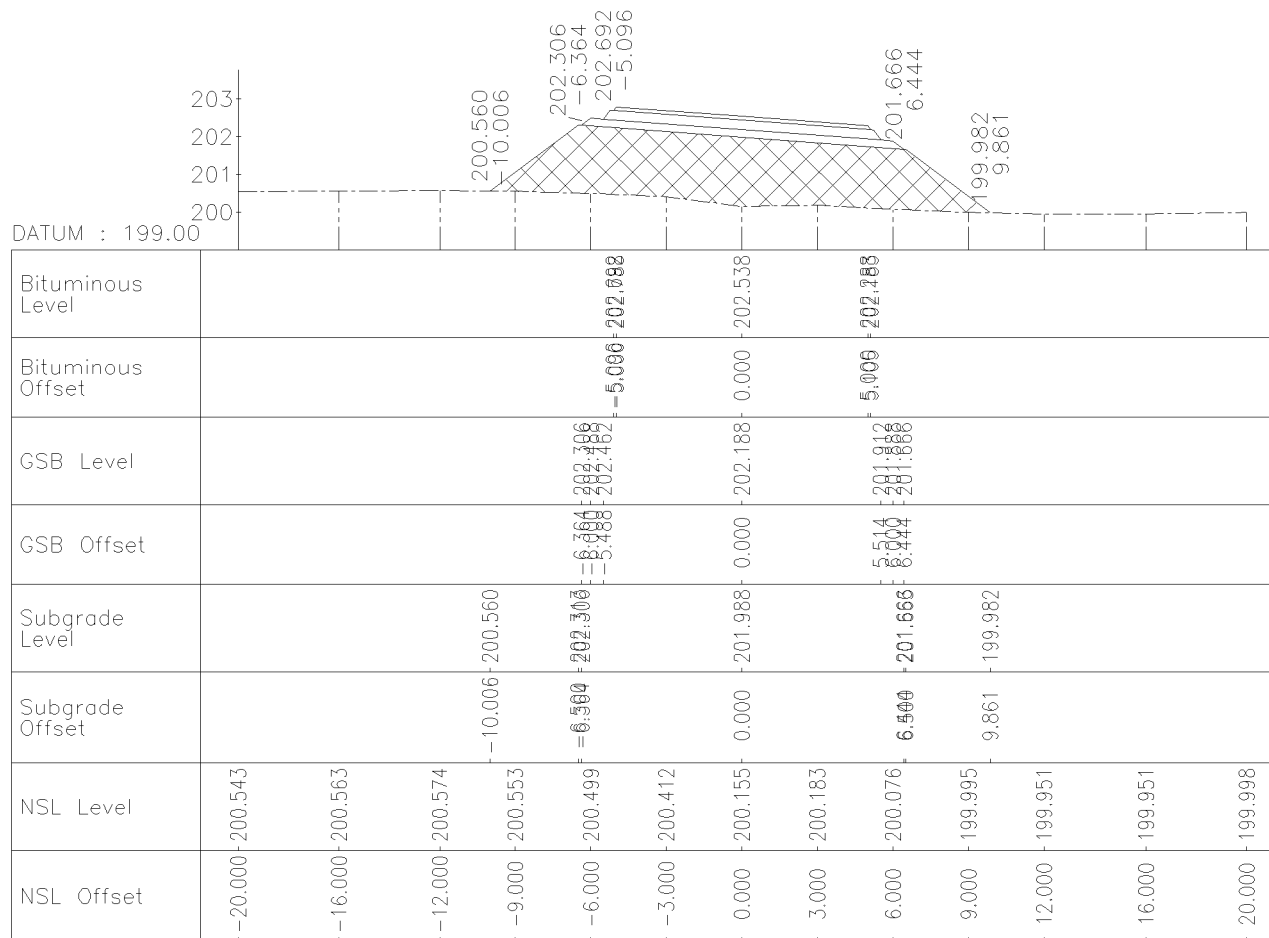
$$1/2 (201.724+201.934) \times (6.420-6.000) = 84.768$$

2590.120

Gross Fill —: 2.481

Net Area: $(2.481 - 0.000) = 2.481$ Sqm. (Filling)

GOVERNMENT OF DEPARTMENT OF		
NAME OF WORK :		
DRAWING :		DRG. NO. :
SCALE :	SHEET OF	DATE :
PREPARED BY	CHECKED BY	APPROVED BY
JUNIOR ENGINEER	ASST. EXECUTIVE ENGINEER	EXECUTIVE ENGINEER



Cross Section At Chainage 45200
[Scale = Hor- 1:300 , Ver- 1:200]

Area Calculation Between Subgrade & NSL

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INITIAL AREA

$1/2 (200.560+200.553) \times (10.006-9.000)$	=	201.760
$1/2 (200.553+200.499) \times (9.000-6.000)$	=	601.578
$1/2 (200.499+200.412) \times (6.000-3.000)$	=	601.367
$1/2 (200.412+200.155) \times (3.000-0.000)$	=	600.851
$1/2 (200.183+200.155) \times (3.000-0.000)$	=	600.507
$1/2 (200.076+200.183) \times (6.000-3.000)$	=	600.389
$1/2 (199.995+200.076) \times (9.000-6.000)$	=	600.107
$1/2 (199.982+199.995) \times (9.861-9.000)$	=	172.190
		3978.747

FINAL AREA

$1/2 (200.560+202.313) \times (10.006-6.500)$	=	706.236
$1/2 (202.313+201.988) \times (6.500-0.000)$	=	1313.978
$1/2 (201.663+201.988) \times (6.500-0.000)$	=	1311.866
$1/2 (199.982+201.663) \times (9.861-6.500)$	=	674.964
		4007.045

Gross Fill -: 28.298

Net Area: (28.298 - 0.000)= 28.298 Sqm. (Filling)

Area Calculation Between GSB & Subgrade

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INITIAL AREA

$1/2 (202.306+201.988) \times (6.364-0.000)$	=	1286.464
$1/2 (201.666+201.988) \times (6.444-0.000)$	=	1300.573
		2587.037

FINAL AREA

$1/2 (202.306+202.488) \times (6.364-6.000)$	=	73.673
$1/2 (202.488+202.188) \times (6.000-0.000)$	=	1214.028
$1/2 (201.888+202.188) \times (6.000-0.000)$	=	1212.228
$1/2 (201.666+201.888) \times (6.444-6.000)$	=	89.589
		2589.517

Gross Fill -: 2.480

Net Area: (2.480 - 0.000)= 2.480 Sqm. (Filling)

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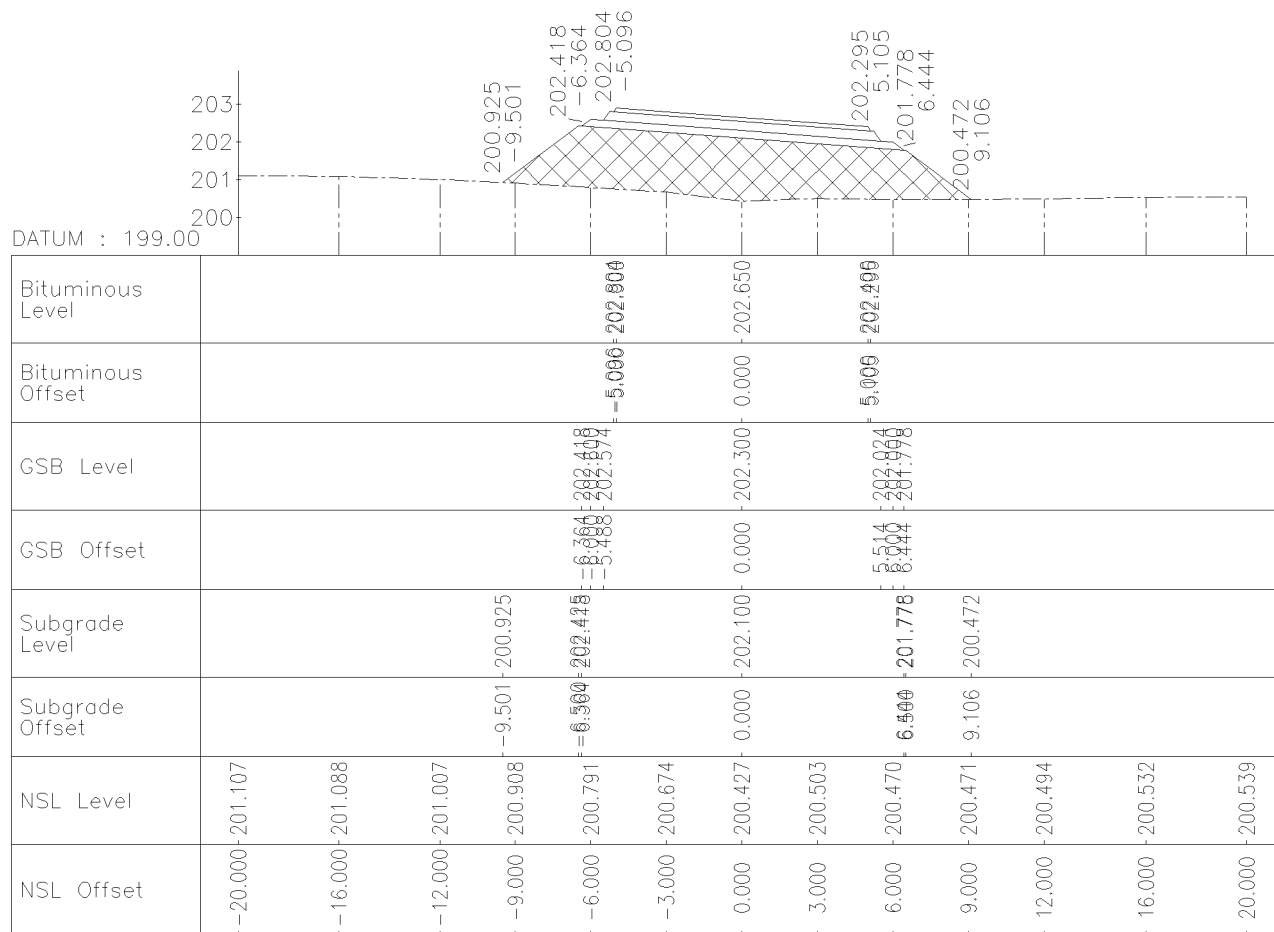
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JUNIOR ENGINEER

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Cross Section At Chainage 45250
[Scale = Hor- 1:300 , Ver- 1:200]

Area Calculation Between Subgrade & NSL

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INITIAL AREA

$$\begin{aligned}
 1/2 (200.925+200.908) \times (9.501-9.000) &= 100.659 \\
 1/2 (200.908+200.791) \times (9.000-6.000) &= 602.549 \\
 1/2 (200.791+200.674) \times (6.000-3.000) &= 602.198 \\
 1/2 (200.674+200.427) \times (3.000-0.000) &= 601.652 \\
 1/2 (200.503+200.427) \times (3.000-0.000) &= 601.395 \\
 1/2 (200.470+200.503) \times (6.000-3.000) &= 601.460 \\
 1/2 (200.471+200.470) \times (9.000-6.000) &= 601.412 \\
 1/2 (200.472+200.471) \times (9.106-9.000) &= 21.250 \\
 &= 3732.573
 \end{aligned}$$

FINAL AREA

$$\begin{aligned}
 1/2 (200.925+202.425) \times (9.501-6.500) &= 605.227 \\
 1/2 (202.425+202.100) \times (6.500-0.000) &= 1314.706 \\
 1/2 (201.775+202.100) \times (6.500-0.000) &= 1312.594 \\
 1/2 (200.472+201.775) \times (9.106-6.500) &= 524.128 \\
 &= 3756.655
 \end{aligned}$$

Gross Fill -: 24.082

Net Area: (24.082 - 0.000)= 24.082 Sqm. (Filling)

Area Calculation Between GSB & Subgrade

Filling

INITIAL AREA

$$\begin{aligned}
 1/2 (202.418+202.100) \times (6.364-0.000) &= 1287.176 \\
 1/2 (201.778+202.100) \times (6.444-0.000) &= 1301.295 \\
 &= 2588.471
 \end{aligned}$$

FINAL AREA

$$\begin{aligned}
 1/2 (202.418+202.600) \times (6.364-6.000) &= 73.713 \\
 1/2 (202.600+202.300) \times (6.000-0.000) &= 1214.700 \\
 1/2 (202.000+202.300) \times (6.000-0.000) &= 1212.900 \\
 1/2 (201.778+202.000) \times (6.444-6.000) &= 89.639 \\
 &= 2590.952
 \end{aligned}$$

Gross Fill -: 2.481

Net Area: (2.481 - 0.000)= 2.481 Sqm. (Filling)

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