



CALCULATIONS

Project: 2022-0438
PID No. 117244
GAL-850-(0.22)(3.52)

Submittal: Final
Date: Dec 15, 2025
By: IMJ
Checked: ATD

Excavation of Subgrade Calculations

NEW CONSTRUCTION = YES ☐

CONTINGENCY = 0%

	Quantity	Unit
ITEM NO. 204 EXCAVATION OF SUBGRADE	2051	CU YD
ITEM NO. 204 GRANULAR MATERIAL, TYPE C	2201	CU YD
ITEM NO. 204 GEOTEXTILE FABRIC, TYPE D	2229	SQ YD
ITEM NO. 204 PROOF ROLLING	1	HOURS
ITEM NO. 503 ROCK EXCAVATION	42	CU YD



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STATION	LENGTH FT	WIDTH FT	CUT END AREA SF	FILL END AREA SF	FACING	DESCRIPTION	ITEM NO. 204 GEOTEXTILE FABRIC, TYPE D		ITEM NO. 204 EXCAV OF SUBGRADE		ITEM NO. 204 GRANULAR MATERIAL	
							SUBTOTAL	UNIT	SUBTOTAL	UNIT	SUBTOTAL	UNIT
14+00.00		0.0	0	0	Back	Begin Unsuitable						
		15.0	45	45	Ahead	3 ft Depth						
	50.00						83	SY	83	CY	83	CY
14+50.00		15.0	45	45								
	50.00						83	SY	83	CY	83	CY
15+00.00		15.0	45	45								
	50.00						83	SY	83	CY	83	CY
15+50.00		15.0	45	45								
	50.00						83	SY	83	CY	83	CY
16+00.00		15.0	45	45								
	50.00						83	SY	81	CY	83	CY
16+50.00		15.0	43	45								
	50.00						83	SY	80	CY	83	CY
17+00.00		15.0	43	45								
	50.00						83	SY	81	CY	83	CY
17+50.00		15.0	45	45								
	50.00						83	SY	81	CY	83	CY
18+00.00		15.0	42	45								
	50.00						83	SY	67	CY	83	CY
18+50.00		15.0	30	45								
	50.00						83	SY	56	CY	83	CY
19+00.00		15.0	30	45								
	50.00						83	SY	56	CY	83	CY
19+50.00		15.0	30	45								
	50.00						83	SY	56	CY	83	CY
20+00.00		15.0	30	45	Back	End Unsuitable						
		0.0	0	0	Ahead							
40+50.00		0.0	0	0	Back	Begin Unsuitable						
		15.0	45	45	Ahead	3 ft Depth						
	50.00						83	SY	83	CY	83	CY
41+00.00		15.0	45	45								
	50.00						83	SY	83	CY	83	CY
41+50.00		15.0	45	45								
	50.00						83	SY	83	CY	83	CY
42+00.00		15.0	45	45								
	50.00						83	SY	83	CY	83	CY
42+50.00		15.0	45	45								
	50.00						83	SY	83	CY	83	CY
43+00.00		15.0	45	45								
	50.00						83	SY	83	CY	83	CY
43+50.00		15.0	45	45								
	50.00						83	SY	83	CY	83	CY
44+00.00		15.0	45	45								
	50.00						83	SY	83	CY	83	CY
44+50.00		15.0	45	45	Back	End Unsuitable						
		0.0	0	0	Ahead							

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							SUBTOTAL	UNIT	SUBTOTAL	UNIT	SUBTOTAL	UNIT
217+45.00		0.0	0	0	Back	Begin Unsuitable						
		11.5	33	35	Ahead	3 ft Depth						
	5.00						6	SY	6	CY	6	CY
217+50.00		11.5	33	35								
	25.00						32	SY	31	CY	32	CY
217+75.00		11.5	34	35								
	25.00						32	SY	32	CY	32	CY
218+00.00		11.5	34	35								
	50.00						64	SY	63	CY	64	CY
218+50.00		11.5	34	35								
	50.00						64	SY	64	CY	64	CY
219+00.00		11.5	34	35								
	50.00						64	SY	64	CY	64	CY
219+50.00		11.5	34	35								
	50.00						64	SY	64	CY	64	CY
220+00.00		11.5	34	35								
	50.00						64	SY	64	CY	64	CY
220+50.00		11.5	34	35								
	50.00						64	SY	64	CY	64	CY
221+00.00		11.5	34	35								
	35.00						45	SY	45	CY	45	CY
221+35.00		11.5	34	35	Back	End Unsuitable						
		0.0	0	0	Ahead							
TOTALS							2165	SY	2051	CY	2159	CY



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Rock Excavation Calculations

STATION	LENGTH FT	WIDTH FT	CUT END AREA SF	FILL END AREA SF	FACING	DESCRIPTION	ITEM NO. 204		ITEM NO. 503		ITEM NO. 204	
							GEOTEXTILE FABRIC, TYPE D		ROCK EXCAVATION		GRANULAR MATERIAL	
							SUBTOTAL	UNIT	SUBTOTAL	UNIT	SUBTOTAL	UNIT
233+25.00		0.0	0	0	Back	Begin Rock						
		11.5	23	23	Ahead	2 ft Depth						
	50.00						64	SY	42	CY	42	CY
233+75.00		11.5	23	23	Back	End Rock						
		0.0	0	0	Ahead							
TOTALS							64	SY	42	CY	42	CY