



SPECIFICATIONS & PLAN NOTES

GRAVEL SURFACING WORKSHOP

JANUARY 26, 2022

HOW DO YOU GET WHAT YOU WANT AND HOW DOES THE CONTRACTOR KNOW WHAT YOU WANT?

- “CLEAR” Specifications
 - Shows your intention of what you want or what you expect
 - But can be difficult write

SPECIFICATIONS

- Spec Book
- Special Provisions
- Plan Notes

SPEC BOOK

- Contains the gradation (Table 816-01) for Class 13, not Gravel Surfacing
 - There is no PI requirement for Class 13
 - Spec 302 Code 160 – Ton
 - Spec 302 Code 161 – CY

**Table 816-01
Miscellaneous Aggregates**

Sieve Size Or Testing Method	Aggregate Class							
	2	3	3M	4	5	7	8	13
	Percent Passing or Testing Requirement							
3 inch		100						
1-1/2 inch							100	
1 inch			100		100	100		100
3/4 inch	100	80-100	80-100	100	90-100	95-100		70-100
1/2 inch						85-100		
3/8 inch	50-95					60-90		
No. 4		35-85	35-85	35-85	35-70	15-25	35-80	38-75
No. 8						2-10		22-62
No. 10	0-15							
No. 30	0-4	20-50	20-50	10-50	16-40			12-45
No. 200		0-15	4-10	7-17	4-10	0-3		7-15
ND T 113, Shale (max %)		12.0%	12.0%	15.0%	12.0%	8.0%	20.0%	12.0%
AASHTO T 96, L.A. Abrasion (max %)				50%	50%	40%		50%
NDDOT 4, Fractured Faces ¹				10%	10%	85%		10%

SPECIAL PROVISION

- SSP 6
 - Used for Gravel Surfacing
 - Spec 350 Code 500 – Ton (in-place)
 - Spec 350 Code 501 – CY (in-place)
 - Spec 350 Code 600 – Ton (Stockpiling)
 - Spec 350 Code 601 – CY (Stockpiling)
 - Contains PI requirement
 - Contains bonus/deduct

Sieve Size Or Testing Method	Aggregate
	Gravel Surfacing
	Percent passing or Test Limit
1"	100
¾"	70 – 100
No. 4	38 – 75
No. 8	22 – 62
No. 30	12 – 45
No. 200	7 - 15
Plasticity Index (PI)	3 - 9
ND T 113, Shale (max %)	12.0%
AASHTO T 96, L.A. Abrasion (max %)	50%
NDDOT 4, Fractured Faces ¹	10%



PI Average	Pay Adjustment Factor
> 9.1	Non Acceptance
7.1 – 9.0	1.0
4.0 – 7.0	1.05
3.0 – 3.9	1.0
2.0 - 2.9	0.85
< 1.9	Non Acceptance

PLAN NOTE

- Used for Gravel Surfacing
 - Spec 350 Code 500 – Ton (in-place)
 - Spec 350 Code 501 – CY (in-place)
- Contains PI requirement
 - May alter gradation
- May contain bonus/deduct
- Can alternate acceptance requirement

Gravel Surfacing	
Sieve Size or Testing Method	Percent Passing or Testing Requirement
1"	100
3/4"	90-100
3/8"	50-90
No. 4	38-75
No. 8	22-62
No. 30	12-45
No. 200	8-15
% Shale and Soft Rock	Max. 12%
L.A. Abrasion Loss	Max. 50%
Plasticity Index	4-8%
Fractured Faces	10%

QUESTIONS



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