



**SOLUTIONS FOR
YOUR ENVIRONMENT®**

A Steel Mill Service and Construction Materials Supplier

Presentation at MCA workshop

February 22 ,2017

John Perry
Technical Services and Governmental Affairs

Edw. C. Levy Co.



Optimized Aggregates –What’s changed?

- 2 of 4 rules have changed with addition of DM and S2M concrete
- Testing requirements for Commercial Batch Plt
- 4.13 Spec now in MQAP Manual
- Acceptance testing clarifications



MDOT P1 M, DM and S2M



Individual Material Testing

- No specified gradations
- Physical properties
- P200 – 2% CA and 3% IA

Combined Gradations

- Coarseness Factor
- Workability Factor
- + 4 rules

Rules Changes

- 2 consecutive sieves from 13% to 10%
- Minimum % retained from 5% to 4%



Testing Requirements Commercial vs. On-Site Batch Plants

- If aggregates from Prequalified Aggregate Supplier
- Contractor may utilize aggregate sources current weekly gradation analysis
- Contractor must QA these QC results weekly to confirm
- If not from Prequalified Supplier or gradations not supplied by aggregate sources
 - ❖ Requirements of On-Site batch plant apply
- Onsite - testing each day of production



Optimized Aggregate Gradation spec 4.13

- Now in Materials Quality Assurance Procedures Manual
- Physical Properties of CA IA and FA pre-determined
 - ❖ F/T - CA < .040% < 2.5% absorption
 - ❖ IA - < .067% with conditions
- Wash requirements
 - ❖ CA -2% IA - 3% FA - 3%
- Revision in MDOT Errata page 17 - 902.03 C 2 b iii - 3% IA



Acceptance Criteria



- One test per 5000 tons
- One test per 1000 tons -if not prequalified supplier material
- Use Mini -stockpile sampling protocol - MTM 107
- Use AASHTO method T 248 to
 - ❖ Reduce sample size by quartering -CA and IA
 - ❖ Miniature Stockpile sampling for FA



Stockpile Management and Testing

- Material Handling
- Proper sampling
- Proper testing – P200
- Coordinate :
 - ❖ Testing Schedule vs. Pour Schedule



Thank You

- Any Questions?
- Go Blue!!

