

Construction & Materials Bureau - Iowa DOT

Construction Staff

The Construction & Materials Bureau provides direction, consultation, and support relating to specifications, construction techniques, contract disputes, administrative requirements, regulatory requirements and evaluation of materials, workmanship, and performance to assure compliance with contract documents. This involves field reviews; plan reviews, maintaining the Construction Manual, identification of methods to improve contract documents and construction practices, and technical training. Administrative assistance is also provided to contractors, county/city engineers, and consultants regarding construction issues.

Construction & Materials Bureau Director - Wes Musgrove 515-239-1843

- Contract administration
- Specification Committee
- Construction Quality Management programs
- Contract disputes
- Construction staffing strategies
- Construction policies and guidance

Contract Administration Engineer - Kevin Merryman 515-239-1453 (Wes Musgrove-back-up)

- Contract administration
- Substantial change orders
- Project engineer assignments
- Davis-Bacon predetermined wages
- Disadvantage Business Enterprise (DBE) requirements
- OSHA
- Hazardous waste
- Demolition

Bituminous Field Engineer – Brian Johnson 515-239- (John Hart)

- HMA resurfacing/paving
- Quality Management-Asphalt (QM-A)
- Base widening
- Shoulder & centerline rumble strips
- Thin maintenance treatments (seal coat, chip seal, micro-surfacing, slurry seal, crack filling)
- Pavement rehabilitation & recycling (slab fracturing, cold in-place recycling, milling/scarification)
- Material transfer vehicles

Earthwork Field Engineer - Melissa Serio 515-239-1280 (Kevin Merryman)

- Grading
- Soil identification
- Soil stability (Moisture, density, fly ash)
- Slope stability (Revetments, rock keys)
- Drainage (Roadway pipes, subdrains, blankets, wick drains)
- Erosion control
- Stormwater requirements
- Flowable mortar
- Subbases
- Granular shoulders
- Landscaping, Fencing

Foundations Field Engineer – Desiree McClain 515-233-7906 (Kyle Frame)

- Pile foundations
- Wave Equation analysis
- Log of Piling reports
- Pile Dynamic Analyzer testing
- Drilled shafts
- Spread footings
- Structural walls (MSE, soil nail, tie back, noise, temporary sheet piling)
- Cofferdams
- Vibration monitoring
- Bridge falsework
- Soil foundation systems (geopiers, stone columns, settlement plates)

PCC Pavement Field Engineer – Elijah Gansen 515-239-1226 (Todd Hanson)

- PCC paving/overlay
- Quality Management-Concrete (QM-C)
- Storm/sanitary sewers and intakes
- Pavement preservation (patching, diamond grinding)
- Products Evaluation Committee
- Construction Survey

Senior Structures Engineer - Curtis Carter 515-239-1185 (Kyle Frame)

- Monitor structure projects
- Guidance to Field Engineers
- Process improvements
- Mediate claims
- Develop structures training
- Maintain statewide contract/Guidance documents

Structures Field Engineer - Jesse Peterson 515-239-1585 (Curtis Carter)

- Bridges/Culverts
- Quality Management-Structures
- Bridge approaches
- Guardrail
- Structural concrete
- Bolting
- High performance concrete
- Railroad agreements

Structures Group Engineer - Kyle Frame 515-239-1619 (Curtis Carter)

- Structural steel shop approval
- Structural steel fabrication
- Structural steel painting
- Welding
- Galvanizing
- Fasteners – materials/testing
- Central lab sections: Metals, General Test & Analytical Chemistry

Work Zone Operations – Brian Worrel 515-239-1471 (Kevin Merryman)

- Traffic control
- Lighting, signing, traffic signals
- Work zone speed limits and Extra Enforcement
- Pavement markings
- Project work zone safety contact
- News media and public relations
- Temporary Barrier Rail for traffic control
- ADA Compliance, ITS

Chad Anderson 515-239-7874

- Haul Roads
- Office website
- Project Status and Cost reports
- Performance Measures and Contract Modification reports
- Training materials
- Construction Manual and IM updates
- Bid Item Updates
- Retainage Release
- LAN Coordinator

Jen Strunk – 641-344-0044

- FieldManager/FieldBook 2 (FM/FB2) Support
- FM/FB2 Software upgrades
- Database queries
- FM/FB2 system testing and evaluation
- FM/FB2 training
- Doc Express
- AASHTOWare Construction

Technical Training & Certification Program (TTCP) Coordinator – Brian Squier 515-233-7915 (Hope Arthur)

- Training classes
- Certification/Recertification
- Manuals and course materials
- Web-Based Training incl. AASHTO Technical Training Solutions
- Reciprocity
- Provisional certification
- Class fees/Refunds
- Unsatisfactory performances/Suspension/Decertification
- Certified Technicians book
- Certification cards and certificates
- Learning Management System (IOWADOTU)

E-Construction Program Administrator – Cedric Wilkinson 563-349-4763

- AASHTOware Project & Digital Reporting Team Lead
- E-tickets for construction materials
- 3D digital models/BIM
- UAS/Drone for Construction
- Contract Administration Training support
- Digital Delivery Team member
- GIS integrations with Construction to Asset inventory
- Technology Pilots including STIC, AID and ADCMS grants

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Materials Staff

The Materials Team provides direction, consultation, and support relating to specifications and evaluation of materials to assure compliance with contract documents. This involves field reviews; plan reviews technical training as well as testing and evaluating. Assistance is also provided to contractors, county/city engineers and consultants regarding material issues.

Pavement Design & Pavement Management Engineer - Chris Brakke 515-239-1882

- Supervise Pavement unit/related lab sections
- Pavement Management policy & guidance
- Pavement management data collection
- Pavement design policy & guidance
- Pavement determination and LCCA policy
- Pavement performance
- Pavement rehabilitation guidance
- Pavement forensic investigations
- Quality Control testing & tracking
- Oversight of Materials IMs & Specs
- Work with Paving Industries

Materials Testing Engineer - Jeff Devries 515-239-1237

- Aggregates/Soils
- Drone operations
- Independent Assurance Program for Construction Overview & Description
- Lab manager
- Materials Laboratory Qualification Program
- Nuclear test equipment/Nuclear density-(Rod Graven)
- Quality Assurance Program for Construction Overview & Description
- Research liaison
- Smoothness
- Paint shop /powder coating
- Metals testing / General test support

PCC Materials Engineer – Todd Hanson- 515-239-1226 (Elijah Gansen)

- Portland Cement Concrete
- Customer guidance
- Material IMs
- Cement, fly ash, slag & concrete quality control/testing
- Concrete admixtures
- Inspect PCC paving construction and concrete structures projects
- Miscellaneous concrete materials (patching, epoxy grout, sealers)
- Concrete forensic investigations
- LIMS, MAPLE support

Prestressed & Precast Concrete Engineer - Mahbub Khoda 515-239-1649

- Prestressed concrete **(Kyle Frame)**
- Precast concrete
- Reinforcing steel
- Galvanizing Items
- Dowel Baskets
- Corrugated metal pipe
- Fence materials
- Handicap panels

Special Investigations Engineer - Vacant (Chris Brakke)

- Pavement structural testing & data
- Pavement ride testing
- Construction detour performance analysis
- Friction testing program
- Test equipment – field/shop maintenance
- Contractor profiler certifications
- Pavement & bridge sampling
- Pavement Management guidance
- Pavement testing IMs/Specifications
- Pavement Management database maintenance

Bituminous Materials Engineer – John Hart 515-233-7837 (Brian Johnson)

- Hot Mix Asphalt (HMA)
- Warm Mix Asphalt (WMA)
- Asphalt binders & modifiers
- Non-Petroleum derived binders
- Recycled Asphalt pavement & shingles
- Aggregates
- Statewide paving project inspections
- HMA Pavement performance
- HMA forensic investigations

Pavements Engineer – Danny Zeimen- 515-233-7858 (Chris Brakke)

- Pavement design
- Pavement determinations
- Life Cycle Cost Analysis
- Pavement rehabilitation designs for Districts
- Field concept reviews
- Pavement forensics
- Spring pavement restrictions

Manufactured Products Engineer - Scott Sommers 515-239-1259 (Kyle Frame)

- Erosion control products
- Rubber/Neoprene products
- Traffic paint
- Plastic products
- Joint sealers / fillers
- Curing compounds

Lead Geologist- Malcom Dawson 515-239-1339

- Aggregates

Support Lead- Burt Chaska 515-239-1484

- Testing equipment

Radiation Safety Officer- Mark Shelton 515-233-7743

- Nuclear density gauges.