



**SUPPLEMENTAL GUIDE
BASIS OF ACCEPTANCE**

TEST REPORT

The Office of Materials has the responsibility to sample and/or inspect the material for compliance. They will issue a test report after the necessary testing and/or inspection. The inspector must have this report before the material is incorporated into the project. The report number and amount approved must be recorded in accordance with the Office of Construction documentation procedures.

CERTIFICATION OF COMPLIANCE

Material to be incorporated into the project must be tested and approved. Testing and approval may include test report, certification, or visual approval. The certification comes in a variety of forms, stamped or preprinted on truck tickets as with aggregates; stamped or preprinted on invoices as with Portland Cement and asphalt cement; stamped or printed on the mill analysis as with reinforcing steel, structural steel, and other metals; furnished as a separate document with each shipment as with zinc-silicate paint, engineering fabrics, epoxy coatings, and dowel baskets; stamped or printed on a list of materials for each shipment as with CMP, concrete pipe, clay tile, and corrugated plastic subdrain; in the form of a guaranteed analysis as with seed labels. The inspector shall verify that the certification has been received by documenting it in the project materials book. Certifications shall be Type A, Type C, Type D or other type as required by the engineer for specific products. A copy of the test report or certification verifying compliance with the applicable specifications will accompany all materials supplied to a project by a jobber unless acceptance is by brand name or approved source. Examples of typical certifications are attached.

These types of certification shall be used by project personnel for acceptance and incorporation of materials into the projects. However, other types of certification from approved manufacturers or producers, as required by appropriate Instructional Memorandums, may also be furnished to the District Materials or Central Materials Offices to ensure compliance with quality control testing required for an approved source.

TYPE A

The manufacturer or producer shall prepare a Type A certification. It shall consist of a certified copy of a laboratory report, which lists results of specified tests and shall certify that the materials furnished comply with the specifications. The tests may be conducted in the laboratory of the manufacturer or in another qualified laboratory. Such tests shall have been conducted on samples obtained from the lot or lots of material identifiable in the shipment.

- Examples:** Steel H-piles
Structural steel materials
Reinforcing steel
ASTM A36, anchor bolts
Seven-wire strand for prestressed concrete
Seeds

TYPE C

A Type C certification shall be prepared by the manufacturer or producer and shall certify that the materials furnished are in accordance with the specifications. The applicable specification or Materials IM shall be referred to in the certification.

Examples: Structural plate pipe
Latex emulsion
Packaged PC premix
Clay tile

TYPE D

A Type D certification shall be in the form of a letter or statement of compliance from the approved manufacturer. The letter or statement of compliance shall state that the materials furnished comply with the applicable specifications of Iowa Department of Transportation.

Examples: PE tubing
Cement
Fly Ash
Paint
CMP
Asphalt Cement
Aggregate
Plastic pipe (PVC, PE, ABS)

APPROVED BRAND

The material must be evaluated and approved by the Office of Materials according to the appropriate Office of Materials IM in order to be used on a project. Once a letter of approval is issued, the material is approved for use on projects. Approved source lists of materials are issued periodically for general information only. Approval for a material may be rescinded at any time if it no longer meets the requirements of the IM.

The project inspector shall document information about this material such as product name, source, date, producer, and lot number, in the project materials book.

Some approved brands may also require a certification.

APPROVED SHOP DRAWING & APPROVED CATALOG CUT

This information must be submitted to, and reviewed by the Iowa DOT Central Design Offices before the material can be incorporated in the project.

TEST REPORT BY APPROVED INSPECTION AGENCY

All treated and untreated timber products, including posts, piling, and lumber, must be tested by an approved inspection agency. A certified report will show the results of the tests. If the supplier is furnishing material from stored stock, a certification statement shall be included with each shipment stating that the material has been inspected by an approved agency.

AS PER PLAN & ENGINEER, VISUAL APPROVAL BY PROJECT ENGINEER, APPROVED BY RCE, & MANUFACTURER RECOMMENDATIONS

The inspector must document information about this material such as product name, source, producer, lot number, date produced in the project materials book. The inspector shall make sure the material meets the requirements of the plans, the engineer, or the manufacturer before the material is used. Visual approval requires construction personnel to visually inspect the material to determine if it generally complies with the specifications. Visual approval is appropriate for non-critical items such as mulch or sod stakes, where general compliance can be readily determined by visual means. If there are questions on specification compliance, samples will be taken for testing.

APPROVED SOURCE

Material furnished must be from a manufacturer or distributor evaluated and approved by the Office of Materials according to the appropriate Office of Materials IM to be used on a project. Once a letter of approval is issued, the source is approved to furnish material for use on projects. Approved source lists of materials are issued periodically for general information only. Approval for a material may be rescinded at any time if it no longer meets the requirements of the IM.

The project inspector shall document pertinent information such as product name, source, date of production, distributor, etc, in the project materials book. A certification is usually required. Sampling and testing may also be required.

LOT ACCEPTANCE

Material furnished on a lot accepted basis must be from an approved brand and lot on a list maintained and provided by Central Materials. Materials on the list have been sampled, tested, and determined to comply with applicable specifications and IM's. If a product from a lot is not listed, it must be sampled and tested prior to incorporation in the project. If the sample complies with specifications, it will be added to the list of accepted lots and may be used on the project.

FABRICATION REPORT

The project inspector must have a copy of the final fabrication report prior to incorporating the component into the project. Contents of the report will vary depending on the requirements of the appropriate Materials IM for the component being fabrication. Final acceptance is by construction personnel at the project site, and is based on proper documentation and the condition of the component.

| Material | IM | Spec. | Sample Size | Sampled By | Basis of Acceptance | Cert. Type | Verification/Monitor/Assurance/Correlation | Other Details |
|---------------------------------|-----------|--|---|---------------|--|------------|--|--|
| Abrasives for Blast Cleaning | 482.03 | | | | Approved Brand | | | Note brand in field book |
| Admixture – Air Entraining | 403 | 4103 | 1 Pt/Lot | DME or RCE | Approved Brand/Lot Monitor | | M-Project | Contact District Materials |
| Admixture – Corrosion Inhibitor | 402 | 4103 | 1 Pt/Lot | DME or RCE | Approved Brand/Lot Monitor | | M-Project | Contact District Materials |
| Admixture – Latex Emulsion | | 2413.02,B | | | Certification | C | | |
| Admixture – Retarder | 403 | 4103 | 1 Pt/Lot | DME or RCE | Approved Brand/Lot Monitor | | M-Project | Contact District Materials |
| Admixture – Water Reducer | 403 | 4103 | 1 Pt/Lot | DME or RCE | Approved Brand/Lot Monitor | | M-Project | Contact District Materials |
| Aggregates – Non-Proportioned | 209 | 4110 to 4133 | | | Approved Source/Certified Truck Tickets, (Form 821278) | D | M-Source | Certified Ticket for pay items by weight |
| Aggregates – Proportioned | 209 & 204 | 4110 to 4133 | IM 301 | CONTR/RCE/DME | Approved Source/Certified Truck Tickets, (Form 821278) | D | M-Source V-Project C-Project | |
| Aluminum, Structural | | 4190.01 | | | Approved Shop Drawing and Fabrication Report | | | |
| Anchor Bolts | 453.08 | 2522.04, D 4185.02, A 4187.01, C | 1 Bolt, Nut & Washer per Size per Proj. | DME | Approved Source/Test Report/Steel Mill Certifications | A | | |
| Anchors, Concrete | 453.09 | | | | Approved Brand | | | |
| Anti-Strip Agent | 491.16 | | | | Approved Brand | | | |
| Arrow Panels, Solar Assisted | 486.12 | 2528.06 | | | Approved Brand | | | |
| Asphalt Binder | 437 | 4137 | 1 3 oz. Tin | CONTR/DME | Approved Source/Certification/Test Report | D | M-Source V-Project | |
| Asphalt, Cutback | 437 | 4138 | 1 Qt Tin | RCE | Approved Source/Certification/Test Report | D | M-Source | Verification for Seal Coat |

| Material | IM | Spec. | Sample Size | Sampled By | Basis of Acceptance | Cert. Type | Verification/Monitor/Assurance/Correlation | Others Details |
|---------------------------------------|---------|--------------------|----------------|------------|---|------------|--|----------------------------|
| Asphalt, Emulsified | 437 | 4140 | 1 Qt Bottle | RCE | Approved Source/Certification/Test Report | D | M-Source | Verification for Seal Coat |
| Asphalt, Polymer Modified | 437 | | 1 Gallon | DME | Test Report (Approved Batch) | | | |
| Backer Rod for Cold Pour Joint Seal | 436.04 | 4136.02, C | | | Approved Brand | | | |
| Backer Rod for Hot Pour Joint Seal | 436.04 | 4136.02, C | | | Approved Brand | | | |
| Barrier Rail, Precast Concrete | 571 | 2513 | | | Source Approval/DOT Stamp/Fabrication Report | | M-Source | |
| Beads, Glass | 484 | 4184 | 1 Qt | DME | Approved Source | | M-Subcontr. | |
| Bearing, Bronze | | 4190.03 | 1/Project | DME | Test Report | | | |
| Bearing, Lead | | 4195.01 | | | Certification | D | | |
| Bearing, Neoprene | 495.03 | 4195.02 | 1 Pad | DME | Fabrication Report/Approved Source | | M-Fabricator | |
| Bentonite Clay | | | | | Visual Approval by RCE | | | |
| Bolts, Nuts & Washers, Structural | 453.06B | 4153.06 | Per IM 453.06B | DME | Certification/Rotational Capacity Test/ Test Report | A | | |
| Calcium Chloride Solution | 373 | 4194.01 | 4 lbs or 1 Qt | RCE | Test by RCE | | | |
| Caulking Compound | | 4192 | | | Visual Approval by RCE | | | |
| Concrete, Special Sections | 445 | 4145 4149.02, B | | | Approved Source /Certification | D | M-Source | |
| Concrete, Modular & Segmental Block | 445.04 | | 1/project | DME | Approved Source /Certification | D | M-Project | |
| Concrete, Pre-Stressed, Precast Units | 570 | 2407 | | | Approved Source /Iowa DOT Stamp/Fabrication Report | | M-Source | |
| Concrete Sealer | 491.12 | 4139 | | | Approved Brand | | | |

| Material | IM | Spec. | Sample Size | Sampled By | Basis of Acceptance | Cert. Type | Verification/ Monitor/ Assurance/ Correlation | Others Details |
|--|--------|---------|-------------|------------|--|------------|---|--------------------------------------|
| Conduit – See Lighting Material | | | | | | | | |
| Curing Materials – Burlap | | 4104 | | | Visual Approval by RCE | | | |
| Curing Materials – Clear | 405.07 | 4105.07 | | | Approved Brand | | | |
| Curing Materials – Dark Colored | 437 | 4105.06 | | | Approved Source | | M-Source | |
| Curing Materials - Plastic Film | | 4106.02 | | | Visual Approval by RCE | | | |
| Curing Materials – White Pigmented | 405 | 4105.05 | 1 Qt/Lot | DME | Lot Accept | | | |
| Delineators – See Signing Materials | | | | | | | | |
| Detectable Warning Panels | 411 | 2511.02 | | | Approved Source | | | |
| Dowel – See Steel Reinforcement | | | | | | | | |
| Drainage Trough, Elastomeric Bridge Jts. | 494 | | | | Approved Source | | | |
| Drains, Floor | | 2406.05 | | | Approved Shop Drawing and Fabrication Report | | | |
| Drums, Channelizing | 488.02 | 4188.02 | | | Approved Brand | | | |
| Epoxy-Coated Steel – See Steel Reinforcement | | | | | | | | |
| Epoxy Injection Resin | 491.19 | | | | Approved Brand | | | |
| Erosion Control, Fertilizer | 469.03 | 4169.03 | | | Approved Source | | | If material suspect, DME will sample |
| Erosion Control, Fungicide | | 4169.05 | | | Seed Manufacturing Recommendation | | | |

| Material | IM | Spec. | Sample Size | Sampled By | Basis of Acceptance | Cert. Type | Verification/ Monitor/ Assurance/ Correlation | Others Details |
|--|--------|----------------------------|-------------|------------|--|------------|---|----------------|
| Erosion Control, Inoculant | | 4169.04 | | | Seed Manufacturing Recommendation | | | |
| Erosion Control, Jute Mesh | | 4169.10, A | | | Visual Approval by RCE | | | |
| Erosion Control, Mulch | | 4169.08 | | | Visual Approval by RCE | | | |
| Erosion Control, Seed | 469.02 | 4169.02 | | | Certification | A | | |
| Erosion Control, Silt Fence Fabric | 496.01 | 4196.01 | | | Approved Brand | | | |
| Erosion Control, Silt Fence Wire and Posts | | Std Road Plan RC-16 Series | | | Visual Approval by RCE | | | |
| Erosion Control, Sod | | 4169.07 | | | Visual Approval by RCE | | | |
| Erosion Control, Sod Stakes | | 4169.09 | | | Visual Approval by RCE | | | |
| Erosion Control, Sticking Agent | | 4169.06 | | | Seed Manufacturing Recommendation | | | |
| Erosion Control, Wire Staples | | 4169.10, B | | | Visual Approval by RCE | | | |
| Erosion Control, Wood Excelsior Mat | 469.10 | 4169.10, C | | | Approved Manufacturer/Brand | | | |
| Expansion Device, Steel | | 4152.02 | | | Approved Shop Drawing and Fabrication Report | | | |
| Expansion Tube | | 4191.01, B | | | Visual Approval by RCE | | | |
| Fabric, Engineering | 496.01 | 4196.01 | | | Approved Brand | | | |
| Fasteners, Aluminum Structural | 486 | 4190.02 | | | Fabrication Report | | | |
| Fence, Barbed Wire | | 4154.04 | | | Visual Approval by RCE | | | |
| Fence, Brace for Field Fence | | 4154.08 | | | Visual Approval by RCE | | | |
| Fence, Tie and Tension Wire | | 4154.05 | | | Visual Approval by RCE | | | |

| Material | IM | Spec. | Sample Size | Sampled By | Basis of Acceptance | Cert. Type | Verification/ Monitor/ Assurance/ Correlation | Others Details |
|--|--------|------------|-------------|------------|--|------------|---|-----------------------------|
| Fence, Chain Link Fabric | 454.10 | 4154.03 | | | Approved Source | | M-Supplier | |
| Fence, Chain Link Fittings | | 4154.11 | | | Visual Approval by RCE | | | |
| Fence, Chain Link Posts, Braces, and Rails | 454.10 | 4154.10 | | | Approved Source/ Certification | | M-Supplier | |
| Fence, Field Fence Fabric | | 4154.02 | | | Visual Approval by RCE | | | |
| Fence, Gate | | 4154.12 | | | Visual Approval by RCE | | | |
| Fence, Miscellaneous Hardware | | | | | Visual Approval by RCE | | | |
| Fence, Orange Mesh Safety | 488.03 | 4188.03 | | | Approved Brand | | | |
| Fence, Silt – See Erosion Control | | | | | | | | |
| Fence, Staples | | 4154.06 | | | Visual Approval by RCE | | | |
| Fence, Steel Line Posts | | 4154.09 | | | Visual Approval by RCE | | | |
| Fence, Wood Fence Post | 462 | 4154.07 | | | Special Test by Approved Inspection Agency and Certification | D | | |
| Fertilizer – See Erosion Control | | | | | | | | |
| Fly Ash | 491.17 | 4108 | 10 lbs. | DME | Approved Source/Certification | D | V-Project M-Source | Verification on Paving only |
| Galvanized Items | | 4100.07 | | DME | Test Report by District Materials | | | |
| GGBFS | 491.14 | 4108 | | | Approved Source/Certification | | | D M-Source |
| Grating (Aluminum) | | 4187.01, A | | | Approved Shop Drawing and Fab. Report | | | |
| Grout, Hydraulic Cement | 491.13 | | | | Approved Brand | | | |
| Grout, Polymer | 491.11 | | | | Approved Brand | | | |
| Guardrail, Attenuators | | | | | As per Plan | | | |

| Material | IM | Spec. | Sample Size | Sampled By | Basis of Acceptance | Cert. Type | Verification/ Monitor/ Assurance/ Correlation | Others Details |
|---|--------|--------------------------|-------------|------------|---|------------|---|--|
| Guardrail, Box-beam Median Barrier | | 4155.06 | | | Approved Shop Drawing and Fabrication Report | | | |
| Guardrail, Cable | | 4155.06 | 6 Ft | DME | Test Report by Central Lab | | | |
| Guardrail, Formed Steel Beam | 455.02 | 4155.02 | | | Approved Brand | | | |
| Guardrail, Steel Posts | | 4155.05 | | | Mill Test Report | A | | |
| Guardrail, Wood Posts | 462 | 4155.04 | | | Test Report by Approved Inspection Agency and Cert | D | | 4'x4' or greater, must be stamped on end |
| Iron Castings, Utility Access Covers, etc | 453.04 | 4153.04 | | | Certification & Proper Identification Imprint | A | | |
| Iron Bridge Rockers | | 4153.04 | | | Approved Shop Drawing & Fabrication Report | | | |
| Joint Filler, Flexible Foam – Type CF and EF Joints | 436.05 | 4136.03, B 4136.03, D | | | Approved Brand | | | |
| Joint Filler, Type E Joint | 436.03 | 4136.03, A | | | Approved Brand | | | |
| Joint Filler, Bituminous Type | 436.03 | 4136.03, A | | | Approved Brand | | | |
| Joint Sealer for Concrete Sewer Pipes | 491.09 | 4149.08 | | | Approved Brand | | | |
| Joint Sealer, Elastomeric (Neoprene) | 436.02 | 4136.0 | | | Approved Brand | | | |
| Joint Sealer, Poured | 436.01 | 4136.02, A | | | Approved Brand | | | |
| Keyway | | 4191.01, A | | | Visual Approval by RCE | | | |
| Lighting Material, Aluminum Poles | 557 | 4185.02, E | | | Approved Shop Drawing/Approved Source/Certification | D | | |
| Lighting Material, Circuit Test | | 2523.21 | | Contr | Test Report (Contractor) | | | |
| Lighting Material, Connectors | | 4185.11 | | | Approved Catalog Cut | | | |
| Lighting Material, Contactors | | 4185.05 | | | Approved Catalog Cut | | | |
| Lighting Material, Control Cabinet | | 4185.07 | | | Approved Shop Drawing and Catalog Cut | | | |

| Material | IM | Spec. | Sample Size | Sampled By | Basis of Acceptance | Cert. Type | Verification/Monitor/Assurance/Correlation | Others Details |
|---|--------|------------|--------------|------------|---|------------|--|--|
| Lighting Matl. Conduit & Fittings Plastic | | 4185.10 | 4' – Plastic | DME | Test Report | | | |
| Lighting Matl. Conduit & Fittings Steel | 485.10 | 4185.10 | | | Approved Brand | | | |
| Lighting Material, Ground Rods and Clamps | | 4185.04 | | | Visual | | | |
| Lighting Material, Handholes | 445 | 4185.08 | | | Source Approval/DOT Stamp/Fabrication Report/Certification | D | M-Source | |
| Lighting Material, Junction Boxes | | 4185.09 | | | Approved Catalog Cut | | | |
| Lighting Material, Lighting Tower | 557 | 2522.04 | | | Approved Shop Drawing/Approved Source/Certification | D | | |
| Lighting Material, Lowering Device | | 2522.06 | | | Approved Shop Drawing and Fabrication Report | | | |
| Lighting Material, Luminaries | | 4185.03 | | | Approved Catalog Cut | | | |
| Lighting Material, Photoelectric Control | | 4185.06 | | | Approved Catalog Cut | | | |
| Lighting Material, Sealant for Traffic Loop Detectors | 491.18 | | | | Approved Brand | | | |
| Lighting Material, Steel Poles | 557 | 4185.02, D | | | Approved Shop Drawing/Approved Source/Certification | D | | |
| Lighting Material, Underground Warning Tape | | 2523.13 | | | Visual Approval by RCE | | | |
| Lighting Material, Wire and Cable | | 4185.12 | | | Approved Catalog Cut and Certification | D | | DME may obtain monitor samples |
| Lighting Material, Wood Poles | 462 | 4185.02, F | | | Test Report by Approved Inspection Agency and Certification | D | | 4'x4' or greater, must be stamped on end |
| Lighting Materials, Fasteners for Poles | 453.09 | 4185.02, A | 1 Each Type | DME | Test Report and Approved Shop Drawing | | | |

| Material | IM | Spec. | Sample Size | Sampled By | Basis of Acceptance | Cert. Type | Verification/ Monitor/ Assurance/ Correlation | Others Details |
|---|--------|------------|-------------|------------|---|------------|---|----------------|
| Lighting Materials, Mastarms | 557 | 4185.02, B | | | Approved Shop Drawing/Approved Source/Certification | D | | |
| Lighting Materials, Slip Base | 557 | 4185.02 | | | Approved Shop Drawing/Approved Source/Certification | D | | |
| Lighting Materials, Transformer Base | 557 | 4185.02, C | | | Approved Shop Drawing/Approved Source/Certification | D | | |
| Markers (reflective) for Guard Rail and Concrete Barrier Rail | 486.08 | 4186.08 | | | Approved Brand | | | |
| Markers, Raised Pavement | 483.07 | 2527.02, E | | | Approved Brand | | | |
| Mastarms – See Lighting Materials | | | | | | | | |
| Paint, Epoxy Aluminum | 482.04 | | | | Approved Brand | | | |
| Paint, Traffic – VOC Complaint Solvent Borne | 483.03 | 4183.03 | | | Approved Brand | | | |
| Paint, Traffic – Waterborne | 483.03 | 4183.04 | | | Approved Source | | M-Subcontr. | |
| Paint, Waterborne Acrylic Finish (Bridge Paint) | 482.05 | 4182.03 | | | Approved Brand/Certification | D | | |
| Paint, Zinc-Rich Epoxy | 482.02 | 4182.02 | | | Approved Brand/Certification | D | | |
| Paint, Zinc-silicate Solvent Borne | 482.02 | 4182.02 | | | Approved Brand/Certification | D | | |
| Paint, Zinc-Silicate Waterborne | 482.05 | 4182.02 | | | Approved Brand/Certification | D | | |
| Patch Material, Rapid-Set Concrete | 491.20 | | | | Approved Brand | | | |
| Pedestrian Bridge, Pre-Engineered | 557 | | | | Approved Fabricator/Approved Shop Drawing | | | |

| Material | IM | Spec. | Sample Size | Sampled By | Basis of Acceptance | Cert. Type | Verification/ Monitor/ Assurance/ Correlation | Others Details |
|--|------------|--------------------|-------------|------------|--|------------|---|----------------|
| Piling, Concrete | 570 | 4166 | | | Approved Fabricator/DOT Stamp/Fabrication Report | | M-Source | |
| Piling, Steel | 467 | 4167 | | | Approved Source/Mill Certification | A | M-Project | |
| Pipe, ABS Sewer/PVC | 443 446 | 4146.04 4146.05 | | | Approved Source/Certification | D | M-Source | |
| Pipe, Clay Sewer | | 4149.02, A | 2 Each | DME | Test Report | | | |
| Pipe, Concrete | 445 | 4145 | | | Approved Fabricator/Certification | D | M-Source | |
| Pipe, Corrugated Aluminized | 441 | 4141 | | | Approved Source/Certification | | | |
| Pipe, Corrugated Polyethylene 3-10 in. | 443 | 4146.02 4143.02 | | | Approved Source | | M-Source | |
| Pipe, Corrugated Polyethylene 12-36 in. | 446 | 4146.02 | | | Approved Source/Certification | D | M-Source | |
| Pipe, Corrugated Steel | 441 | 4141 | | | Approved Fabricator/Certification | D | M-Fabricator | |
| Pipe, Ductile Iron Sewer | | 4149.02, C | | | Certification | A | | |
| Pipe, Polyethylene Sewer | 443 446 | 4146.03 | | | Approved Source/Certification | D | M-Source | |
| Pipe, Rodent Guard for PE pipe | 443.01 | 4143.01, B | | | Approved Brand | | | |
| Pipe, Rodent Guard for CMP pipe | 443.01 | 4143.01, B | | | Approved Brand | | | |
| Pipe, Concrete Subdrain Tile | 448 | 4148 | | | Approved Source /Certification | C | M-Source | |
| Pipe, Corrugated Metal Subdrain Outlet | 441 | 4141 | | | Approved Fabricator/Certification | D | M-Fabricator | |
| Pipe, Corrugated Polyethylene Subdrain | 443 | 4143.01, B | | | Approved Source | | M-Source | |
| Pipe, Welded Steel for Bridge Rail (See Railing, Bridge) | | | | | | | | |

| Material | IM | Spec. | Sample Size | Sampled By | Basis of Acceptance | Cert. Type | Verification/ Monitor/ Assurance/ Correlation | Others Details |
|---|--------|-----------------|-----------------|-------------------|---|------------|---|--------------------------------------|
| Pipe, Horizontal Subdrain | 443 | 4143.01, A | | | Approved Source | | M-Source | |
| Plant Material, Fertilizer | 469.03 | 4170.09, B | | | Approved Source | | | |
| Plant Material, Mulch | 470 | 4170.09, D | | RCE | Field Review Report | | | |
| Plant Material, Plants | 470 | 4170.01-4170.08 | | Roadside Develop. | Field Review Report | | | Report Issued – Roadside Development |
| Portland Cement Concrete Premix Pack | 447 | | | | Approved Source/Certification | C | M-Source | |
| Portland Cement, All Types | 401 | 4101 | 10 Lbs. | DME | Approved Source/Certification | D | V-Project M-Source | |
| Railing, Bridge | | 4153.05 | | | Approved Fabricator/Approved Shop Drawing/ Fabrication Report | | | |
| Reflective Sheeting – See Signing Material | | | | | | | | |
| Release Agent | 491.15 | | | | Approved Brand | | | |
| Sealant, Traffic Loop – See Lighting Material | | | | | | | | |
| Seed – See Erosion Control | | | | | | | | |
| Signing Material, Delineator Posts | | 4186.10, C | 1 Each Supplier | DME | Test Report | | | |
| Signing Material, Delineators | 486.07 | 4186.07 | | | Approved Brand | | M-Project | |
| Signing Material, Finished Sign | 486 | 4186 | | | Fabrication Report/Approved Source/Certification | D | M-Source | |
| Signing Material, Fasteners | | 4186.06 | | | Fabrication Report | | | |
| Signing Material, Reflective | 486.03 | 4186.03 | | | Approved Manufacture/Brand | | M-Source | |

| Material | IM | Spec. | Sample Size | Sampled By | Basis of Acceptance | Cert. Type | Verification/Monitor/Assurance/Correlation | Others Details |
|---|---------|------------|----------------------------------|------------|---|------------|--|--|
| Signing Material, Sign Panels | | 4186.02 | | | Approved Shop Drawing and Fabrication Report | | | |
| Signing Material, Sign Support Structures | 557 | 4187 | | | Approved Fabricator/Approved Shop Drawing/Fabrication Report | | | |
| Signing Material, Stainless Steel Fasteners | 453.07 | | 1/size/project | DME | Approved Source/Mill Certification | A | M-Project | |
| Signing Material, Steel Posts | | 4186.10 | | | Approved Shop Drawing and Fabrication Report | | | |
| Signing Material, Wood Posts | 462 | 4186.10 | | | Test Report by Inspection Agency and Certification | D | | |
| Signing Material, Galvanized Items | | 4100.07 | | | Test Report by District Materials | | | |
| Sod – See Erosion Control | | | | | | | | |
| Steel Castings | | 4153.03 | | | Approved Source/Catalog Cut | | | |
| Steel Masonry Plates | | 4152.02 | | | Mill Certification | A | | |
| Steel Pile, Welded | | 4153.05 | | | Approved Shop Drawing & Fabrication Report | | | |
| Steel, Pins/Rollers, Cold Finished | | 4153.02 | | | Approved Source/Catalog Cut | | | |
| Steel, Pins/Rollers, Forged | | 4153.01 | | | Approved Source/Catalog Cut | | | |
| Steel Reinforcement, Basket Assemblies | 451.03B | 4151.02 | | | Approved Source/Certification | D | | |
| Steel Reinforcement, Epoxy-Coated | 451.03B | 4151.03, B | 6 Ft of Largest Size in Shipment | DME | Approved Source/Mill Certifications & Epoxy Certification/Test Report | A | M-Project | Test Sample should be 3' away from end of the bar. |
| Steel Reinforcement, Epoxy-Coated Tie Bars | 451.03B | 4151.02, A | 1 per Proj. per Year | | Approved Source/Certification | D | M-Project | |
| Steel Reinforcement, Epoxy-Coated Dowels | 451.03B | 4151.02 | 1 per Proj. per Year | | Approved Source/Certification | D | M-Project | |

| Material | IM | Spec. | Sample Size | Sampled By | Basis of Acceptance | Cert. Type | Verification/Monitor/Assurance/Correlation | Others Details |
|---|----------------|--------------|---------------------------|------------|--|------------|--|--|
| Steel Reinforcement | 451 | 4151 | 1 per Proj of 45T or more | DME | Approved Source/Certification | A | V-Project | 6' sample or largest size |
| Steel Reinforcement, Galvanized | 451 | 4151.03, A | 3 Ft | DME | Mill Certifications & Test Report for Galvanizing | A | M-Project | |
| Steel Reinforcement, Uncoated | 451 | 4151 | *6 Ft. of Most Common | DME | Approved Source/Mill Certification | A | M-Project | *project Qty under 30 Tons Cert. Only, 30-100 Tons 1 sample, 100+ Tons 2 samples |
| Steel Reinforcement, Wire Mesh | 451 | 4151.04 | 2 ft. x 2 ft. | DME | Approved Supplier or Distributor/Certification | A | M-Supplier | 1 sample per source per year |
| Steel Mechanical Splicers for Reinforcement | 451 | | | | Approved Fabricator/Mill Certification/Epoxy Certification | | M-Project | Need: Certification Statement, Project #, Quantity, Heat # |
| Steel, Structural | 557,561 to 565 | 2408 4152 | | | Approved Fabricator/Approved shop Drawing/Fabrication Report/Mill Certifications | A | | |
| Step Irons for Utility Access | | 4149.06 | | | Fabrication Report | | | |
| Structural Items, Other | | | | | Approved Shop Drawing and Fabrication Report | | | |
| Structural Plate (Arches) | 444 | 4144 | Visual | RCE | Approved Fabricator/Certification Statement | C | | |
| Studs, Shear | 453.10 | | | | Approved Source/Certification | A | | |
| Surface Finish, Special | 491.10 | 2403.21, C | | | Approved Brand | | | |
| Tape, Pavement Marking | 483.06 | 2527.02, A | | | Approved Brand | | | |
| Torque Calibration Machine (skidmore) | | 2408.38, C | Calibrate Every 6 Months | CTRL | Test Report | | | |
| Torque Wrench | | 2408.38, C | Calibrate Every 6 Months | CTRL | Test Report | | | |

| Material | IM | Spec. | Sample Size | Sampled By | Basis of Acceptance | Cert. Type | Verification/ Monitor/ Assurance/ Correlation | Others Details |
|--|-----|---------|-----------------|------------|---|------------|--|----------------|
| Water | | 4102 | 1 Qt per Source | DME | Test Report or City Water Supply | | | |
| Wire and Cable – See Lighting Material | | | | | | | | |
| Wood, Hardware for Timber Structure | 462 | 4153.07 | 1 Each Type | | Test Report | | | |
| Wood, Timber Piles | 462 | 4165 | | | Test Report by Approved Inspection Agency and Certification | D | | |
| Wood, Treated Posts | 462 | 4164 | | | Test Report by Approved Inspection Agency and Certification | D | | |
| Wood, Treated Timber and Lumber | 462 | 4162 | | | Test Report by Approved Inspection Agency and Certification | D | | |
| Wood, Untreated Timber and Lumber | 462 | 4162 | | | Test Report by Approved Inspection Agency and Certification | D | | |

GUIDE FOR THE ACCEPTANCE OF SMALL QUANTITIES OF MATERIALS

| Material | Maximum Quantity | Specifications | Alternate Acceptance Method |
|--|-------------------------|-----------------------|------------------------------------|
| Beads, Glass | 0.5 mi. application | 4184 | Visual |
| Dowel Baskets, Epoxy-Coated | 25 | | Visual & Field Check |
| Fly Ash | 5 ton | | Approved Source & Type |
| Hardware for Timber | 100 lbs. | 4153.07 | Visual |
| Joint Filler, Preformed | 50 ft. | 4136.03 | Visual & Dimension |
| Lighting Material - Conduit & Fittings | 100 ft. | 4185.10 | Visual & Brand Name |
| Paint, Bridge | 5 gal. | 4182 | Visual & Brand Name |
| Pipe, Welded Steel for Bridge Railing | 100 ft. | 4153.05 | Letter of Compliance |



DIVISION OF USX CORPORATION
01.000.0772 (REV. 4/87)

metallurgical
Test Report



| | | | | |
|--|---|---|--|---|
| VENDOR SOUTH WORKS CHICAGO, ILL. 60617 SOLD TO SKYLINE STEEL CORP 17 W 705-C BUTTERFIELD RD OAK BROOK IL 60181 | P.O. DATE 11/03/90 SHIPPERS NO. BB9864 | PURCHASE ORDER NO. 640350 MILL ORDER NO. VM12235 | INVOICE NO. 187-097245 VEHICLE IDENTIFY 1658 IA 60296 | BEING DULY SWORN ACCORDING TO LAW. DEPOSES AND SAYS PRODUCT DESCRIBED HEREIN WAS MFGD, SAMPLED, TESTED AND/OR INSPECTED IN ACCORDANCE WITH THE SPECIFICATIONS AND FULFILLS REQUIREMENTS IN SUCH RESPECTS. PREPARED BY THE OFFICE OF: <i>J. J. Harrington</i> J. J. HARRINGTON Q. A. MGR. BY: _____ DATE _____ |
|--|---|---|--|---|

EXAMPLE: TYPE "A" CERT

| | |
|---|--|
| SPEC. & INSP. H-PILES CARBON ASTM A36-B7 INSP. 01 MILL SWORN T/R | <p><i>BRF-13-2 (23) -- 38-26</i> <i>Delaware County</i> <i>Contract No 32280</i> <i>Guetzko Construction, Ltd</i></p> |
|---|--|

STATE OF INDIANA
COUNTY OF LAKE
SUBSCRIBED AND SWORN TO BEFORE ME
THIS 04TH DAY OF JANUARY A. D. 1991
Worthy Shepherdson
NOTARY PUBLIC
MY COMMISSION EXPIRES Feb 15, 1993

| ITEM NO. | THICKNESS OR SECTION | MATERIAL DESCRIPTION | | LENGTH | QUANTITY | WEIGHT | HEAT NO. | TEST OR PIECE IDENTITY | YIELD ST. | | TENSILE ST. | | ELONGATION% | | % RED. OF AREA | REMARKS |
|---|----------------------|----------------------|-----|--------|----------|--------|----------|------------------------|--------------|--------------|--------------|--------------|-------------|-------|----------------|---------|
| | | | | | | | | | KS | KS | KS | KS | IN 8" | IN 2" | | |
| 05 | .4150 | HP10X042 | 42' | | 07 | 12348 | 1R7508 | <i>294</i> | 49.7 49.3 | 72.0 72.5 | 21.0 27.0 | 40.0 48.0 | | | | |
| 05 | .4150 | HP10X042 | 42' | | 06 | 10584 | 1R7509 | <i>252</i> | 53.5 51.5 | 71.5 73.0 | 27.0 26.0 | 48.0 48.0 | | | | |
| 06 | .4150 | HP10X042 | 48' | | 08 | 16128 | 2R0055 | <i>384</i> | 61.5 50.0 | 74.5 69.5 | 25.0 27.0 | 46.0 48.0 | | | | |
| <p>930 L.F. OK 4/19/91 JB</p> | | | | | | | | | | | | | | | | |

"USS, A DIVISION OF USX, HEREBY CERTIFIES THAT ALL MANUFACTURING PROCESSES, INCLUDING MELTING, INVOLVED IN THE PRODUCTION OF USS STEEL MILL PRODUCTS OCCUR ENTIRELY IN THE UNITED STATES."
 ## END OF DATARR ##

| HEAT NO. | TYPE | C | MN | P | S | SI | CU | NI | CR | MO | SN | AL | N | V | B | TI | CB | CS |
|---------------------|------|----|-----|-----|-----|-----|----|----|----|----|----|----|---|---|---|----|----|----|
| 1R7508 | HEAT | 21 | 078 | 009 | 030 | 035 | | | | | | | | | | | | |
| 1R7509 | HEAT | 22 | 075 | 009 | 031 | 040 | | | | | | | | | | | | |
| 2R0055 | HEAT | 18 | 057 | 008 | 028 | 039 | | | | | | | | | | | | |
| ## END OF DATARR ## | | | | | | | | | | | | | | | | | | |

Davenport Cement Company

STRAIGHT BILL OF LADING - SHORT FORM

HEADQUARTERS ADDRESS:
220 EMERSON PLACE, SUITE 300, DAVENPORT, IOWA 52801 - 319/323-2751

This short form is issued in lieu of the Uniform Bill of Lading and is subject to its terms and conditions:

CAUTION:
MAY CAUSE EYE OR SKIN INJURY
SEE NOTICE ON REVERSE SIDE

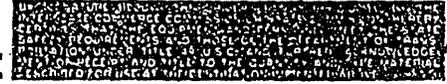
REPRINT Wed Apr 24 09:40:33 1991
AT AT West Des Moines Terminal
CUSTOMER NO. 2073-1392 CONTRACT/P.O. NUMBER TERR. NO./SALESMAN SHIPPING DATE 4/23/91

| | |
|--------------------|-----|
| BILL OF LADING NO. | 110 |
| FREIGHT | |

SHIP TO: FRED CARLSON CO./WILLIAMS RD-520-4 (26) 16-40 JCT R-77 & SR20 NEAR WILLIAMS / HAMILTON CO. IA Decatur IA 52101

CARRIER: RURN TERMINAL CORP. Trucks 50055
CARRIER NO. 255

PROJECT 110 PORTLAND TYPE I
Gross Weight 29000 lbs
Tare Weight 28770 lbs
Net Weight 230 lbs



SIGNED: [Signature]
TRAILER NO.:

TARS BY 11743
DRIVER: MITCHELL
EXAMPLE:
TYPE "D" CERT.

The property described in, is apparent good order, packed or sealed (quantity and condition of contents of packages indicated, marked, labeled and numbered as indicated herein, which and marks are used under being preserved throughout the contract as evidence of any process of completion in possession of the property under the receipt) agree to carry to the stated place of delivery at such destination, if not by water, otherwise to deliver to (initials) party on the date to next destination, it is mutually agreed as to each parcel of or as to any of such property and as to any portion of such marks to destination, and as to each party at any time interested in or as to any of such property, but every party to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading and Form (B) to (Blank), (Standard), (Minimum) and (State) Freight Classification, to which on the date hereof, if this is a bill of lading, or (B) in the applicable water carrier classification or code if this is a water carrier shipment.

Shippers hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, and that he is the proprietor or his agent who issues the transportation of the property, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

The receipt is legal receipt indicated on the bill of lading as correct, subject to verification by the WESTERN RECEIVING & SHIP. BUREAU. (See back of bill of lading)

The material hereon described has been manufactured in the United States from domestically produced raw materials and has been accepted and tested as prescribed by the Highway Division of the Iowa Department of Transportation and complies with the applicable certification requirements.

Signed: [Signature]
CONSIGNEE'S SIGNATURE

EXTRA COPY

COPY

MARTIN MARIETTA

4626448

AGGREGATES COMPANY

SOLD TO:

MANATTS INC

SN-3478(2)--51-08

BOONE COUNTY

SOLD FROM:

121

AMES MINE

RR2, AMES, IOWA

(515)232-3363

DATE: 06/28/91 TIME: 03:08 PM TRX. NO. MA63P HAULER NO. 0174 TICKET NO: 4626448

PROD NO. 0816 DESCRIPTION: 1/2 TYPE A CUST NO. 524504 P.O. NO. SC# 507

| | | |
|-------------|--|-------|
| TONS GROSS: | | 39.64 |
| TONS TARE: | | 16.41 |
| TONS NET: | | 23.23 |

| CASH SALE | | |
|-----------|----|------------------|
| MATERIAL | \$ | PLA TON |
| TAX | \$ | |
| HALL | \$ | PLA TON |
| TOTAL | \$ | PAYMENT REC. FT. |

LOADS TODAY: 82

QUANTITY TODAY: 1755.98

QUANTITY TO DATE: 3448.96

STATE SECRETARY OF AGRICULTURE CERTIFIED. EFFECTIVE
CaCO₃ EQUIVALENT PER TON OF AGGREGATE. _____ LBS

GH

DRIVER _____

CUSTOMER _____

WDDPERSON SHORT D

CERTIFICATION BELOW VALID ONLY WITH AUTHORIZED SIGNATURE. THIS IS TO CERTIFY THAT THE MATERIAL HEREIN DESCRIBED MEETS THE APP. CONTRACT SPECIFICATIONS & REQUIREMENTS

EXAMPLE:

TYPE "D" CERT

| | | | |
|--|---|---|---|
|  CONSTRUCTION PRODUCTS INC. ARDENNES BUSINESS PLANT | | PAGE 01 B/L STOP | UNFREIGHT BILLS 72-4544 FIN ORDER NUMBERS PLANT: 72-00050-00 SALES 26-3876-00 BUYER: IF CHARGES ARE TO BE PREPAID WRITE OR STAMP HERE, "PPD DEBIT, FRGT PREPAID" TO EXPEDITE PAYMENT, MAIL A COPY OF THIS BILL OF LADING WITH FREIGHT BILL. FREIGHT BILLS RECEIVED WITHOUT THIS COPY WILL BE RETURNED. MAIL TO COMPUTREX, INC., P.O. BOX 13020, LEXINGTON, KY, 40583. <small>* N/M This is to certify that the named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.</small> <small>* If the difference issued between two parts by a carrier by water, the bill indicates that the bill of lading date entered is in error to a degree of more than 10% or where the rate of carriage on such shipment is subject to date, immediately on being so advised, a copy of the bill of lading is to be issued by the carrier to the shipper to be used for the purpose of the bill of lading to be used by the shipper to be used by the carrier.</small> PER COMPUTREX CONSTRUCTION PRODUCTS INC. SHIPPER Permanent post-office address of shipper: 1001 Olive Pl., Lexington, Ohio 45044 |
| DATE 07/15/91 158-0777 CARRIER/ROUTE VAN WYK TOLLING CAR/VEHICLE NO DEST. CODE | | CONSIGNEE TO: (MAIL OR STREET ADDRESS OF CONSIGNEE - FOR PURPOSES OF NOTIFICATION ONLY) HOLL. BLDG. CORP., CONST. CO. 1300 JUST W. OF I-75 COLUMBIA, MISSOURI 65201 | |
| EXAMPLE: TYPE "D" CERT. | | | |
| 001 | 1 | H/C PIPE 2 2/3x1/2 GALV WS 16GA 24" 8.00FT ROLL ONE END | 129 |
| 002 | 1 | H/C PIPE 2 2/3x1/2 GALV WS 16GA 24" 14.00FT | 226 |
| 003 | 2 | CSP BAND 10"HUGGER GALV 16GA 24" 1PC W/PBR BUILT & STAMP. | 39 |
| 004 | 1 | H/C PIPE 2 2/3x1/2 GALV WS 16GA 18" 20.00FT | 243 |
| 005 | 1 | CSP BAND 10"HUGGER GALV 16GA 18" 1PC W/PBR BUILT & STAMP. | 16 |
| 006 | 6 | BAND ACC FASTENER STEEL BOLT 1/2"x6" | 3 |
| 007 | 6 | BAND ACC FASTENER STEEL NUT | 3 |
| | | The material covered by this fabricator's certification was manufactured in compliance with the laws Department of Transportation's specifications based upon mill certificates and quality control tests. It is certified that representative samples of the listed material have been tested and that the test results conform to the requirements of those specifications. Material description and Project Identification are as shown. | |
| | | 1. STATE CERTIFIED SIGNATURE JOHN R. FRIEDMAN 2. STA 1100000 BRING BACK 1 - 2000 1 - 14" & 1 - 8" TRAILER | |
| | | Authorized Signature  Date 7-15-91 657 LRG Item # 1-7 | |