REVISIONS TO MATERIALS SAMPLING GUIDE July 1, 2017 Edition

	y '		
Materials Sampling			
Through	Throughout		
	Updated references to Department of Transportation		
	Removed – Supplier		
Section 3, Asphalti	c Concrete		
	2, Material – Asphaltic Concrete Pavement		
	Field Personnel		
	Removed – shall		
	Added – may		
_	The state of the s		
Section 15, Portlan	d Cement Concrete for Pavement, Base Course, and Pavement Patching		
	-3. Material – PCC Pavement		
i ago io	Field Personnel		
	Removed – shall		
	Added – may		
	Adda may		
Section 18 Fence	Handrail, and Barrier Rail Materials		
	i-1, Material – Tubular, 'H', and 'C' Sections for Post Braces, Top Rail, etc.		
rage 10	Manufacturer Certified Tests Required		
	Removed – No		
	Added – Yes		
	Added – Yes		
Onation OZ Natao			
Section 27, Notes	A Note A Consultation of the Consultation of t		
Page 27	-1, Note 1 – Sampling and Testing Small Quantities of Non-critical Materials		
	Removed – submitting a DR Form 181, Letter of Certification by Project Manager, to the Materials &		
	Research Division,		
	Added – notification of Materials & Research and documenting the waiver of Sampling/Testing in		
	SiteManager		
	Removed – documented as provided in paragraph 19s) and/or (b) and paragraph 2 of DR Form 181		
	Added – recorded on the affected line item, consistent with materials acceptance documentation of the		
	department.		
Page 27	-4, Note 9, Reinforcing Steel, Bars, and Fabric		
	Removed – Generally reinforcing steel, supplied by Nebraska manufacturers or fabricators, is sampled		
	and tested by the central laboratory, which maintains a stock record of tested material at these plants. A		

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	'Report of Shipment of Steel for Concrete Reinforcement'" is issued by the Materials & Research Division
	to cover each shipment to a project.
	Reinforcing steel may occasionally be furnished directly to the project from a manufacturer without being
	previously tested by the central laboratory. In this case, samples and certificates should be submitted to
	the central laboratory as prescribed by the materials sampling guide. Reinforcing steel furnished under
	these circumstances should not be used until tests are completed and approved.
	Added – Generally, reinforcing steel supplied by Nebraska manufacturers or fabricators is sampled and
	tested by the central laboratory, which maintains a stock record of tested material at these plants. This
	pre-approved stock material may be sent by the supplier directly to the project, provided the supplier
	sends an approved NDOT shipping report along with the load. This completed shipping report, signed by
	the supplier, is sent directly to the project manager with a copy provided for the contractor. The project
	manager is responsible for documenting and authorizing this shipping report in SiteManager and
	OnBase.
	Reinforcing steel may occasionally be furnished directly to the project from a manufacturer without being
	previously tested by the central laboratory. In this case, certificates should be documented into
	SiteManager and OnBase and samples forwarded to the central laboratory as prescribed by the materials
	sampling guide. Reinforcing steel furnished under these circumstances should not be used until tests are
	completed and authorized by Materials & Research.
Page 27-4, Note 10, Beam a	nd Cable Guard Rail and Fittings
	Removed – Beam and cable guardrail and associated hardware furnished by each supplier is tested
	once each year to check their respective stock of material. Any material shipped from the tested stock of
	these suppliers to state projects will not require any additional sampling, testing, or certification. Shipping
	reports showing the material shipped will be distributed by the Materials & Research Division to the
	project manager and others concerned.
	When the supplier's tested stock is exhausted, he may continue to ship additional material to state
	projects, however, this material must be covered by the type of certification shown in this sampling guide
	for the particular item involved. The certifications and supplier's shipping report will be sent to Materials
	& Research Division for approval and distribution to the project manager and others concerned.
	Occasionally, guardrail material may be sampled on the project for a supplier's stock. In this case, the
	project manager will be notified by the Materials & Research Division concerning the samples required.
	When steel posts (end posts, special posts, mounting brackets, etc.) used with beam guard rail are
	shipped to a project on the basis of certificates of compliance, they will be field checked by the project
	manager for correct dimensions and for the amount of zinc coating or paint thickness. A report showing
	the number of posts, the measurements, and coating thickness will be sent to the Materials & Research
	Division for distribution.
	Added – Beam and cable guardrail and associated hardware furnished by each supplier is subject to
	random testing by Materials & Research. Any material shipped from these approved guardrail suppliers
	to state projects will not require any additional sampling, testing, or certification. Pre-approved material
	may be sent by the supplier directly to the project, provided the supplier sends an approved NDOT
	shipping report along with the load. This completed shipping report, signed by the supplier, is sent

directly to the project manager with a copy provided for the contractor. The project manager is
responsible for documenting and authorizing this shipping report in SiteManager and OnBase.
age 27-4, Note 11, Metal Culvert Pipe Field Inspection and Reporting
Removed – The random sampling procedure at the pipe fabricators plant requires the supplier to send a copy of his shipping report with the truck delivering the materials. The report will be addressed to 'Project Manager'. If the project manager or his inspector is not present when the material is unloaded, the report will be left with the contractor, if he is present, for transmittal to the project manager. Should the material be stockpiled at a site where neither the contractor nor his inspector is present, the truck driver will return the report to his office and it will be mailed to the project manager. The shipping report may be either a Form MT-750 or a fabricator's bill of lading and will show the following information for the culvert pipe in the shipment: quantity (linear feet), size, heat number, thickness of sheets for each size of pipe, brand, and the fabricator's certification of compliance. The pipe may be approved for use as soon as the project manager verifies that the material received is as described on the shipping report, and that the pipe has not been damaged in shipment or handling.
Any corrections or notes should be made on the project manager's copy of the shipping report that should then be sent to the Materials & Research Division. A copy of the project report covering the shipment will be sent to the project manager by the Materials & Research Division.
Added – Metal culvert pipe and associated hardware furnished by each supplier is subject to random testing at the suppliers' facility by Materials & Research. Any material shipped from these approved metal culvert suppliers' stock will not require any additional sampling, testing, or certification. Preapproved stock material may be sent by the supplier directly to the project, provided the supplier sends an approved NDOT shipping report along with the load. This completed shipping report, signed by the supplier, is sent directly to the project manager with a copy provided for the contractor. The project manager is responsible for documenting and authorizing this shipping report in SiteManager and OnBase.
The pipe may be approved for use as soon as the project manager verifies that the material received is as described on the shipping report and the pipe has not been damaged in shipment or handling. Any corrections or notes should be made on the project manager's copy of the shipping report.
age 27-5, Note 12, Bolts, Nuts and Washers, and Structural Fasteners
Removed – Tested and approved stock will be tagged with a Department of Roads' white inspection tag (TL-5401) inside or outside of the container. Shipments so tagged may be used immediately. Shipment reports referencing to the stock test will be issued by Materials & Research Division.
Added – Bolts supplied to Nebraska projects are sampled and tested by the central laboratory and/or the NDOT Bridge Fabrication Inspection Unit. The NDOT central laboratory maintains a stock record of tested material at various fabricators and suppliers. This pre-approved stock material may be sent by the fabricator/supplier directly to the project, provided the supplier sends an approved NDOT shipping report along with the shipment. This completed shipping report, signed by the supplier, is sent directly to the project manager with a copy provided for the contractor. The project manager is responsible for documenting and authorizing this shipping report in SiteManager and OnBase.

Page 27-5, Note 14, Steel	Bearing Piling, Steel Sheet Piling and Steel Shells for Cast-in-Place Piling
	Added – stamped
	Removed – He
	Added – The project manager
	Removed – forward the mill test
	Added – document said
	Removed – to the
	Added – in SiteManager and OnBase for review by the
Page 27-5, Note 15, Struc	ctural Steel for Superstructure, Substructure, and Handrail
	Removed – He
	Added – The inspector
	Removed – He
	Added – The inspector
	Added – inspector
	Removed – him
	Added – the department inspector
	Added – /she
	Removed – approved
	Added – reviewed
	Removed – from Materials & Research Division, or approval to use this material
	Added – reports
	Added – The department inspector is responsible for entering all mill tests, certificates, and other reports
	in SiteManager and OnBase.
Page 27-6, Note 16, Comp Signal Poles and Light Po	bination Mast Arm Signal and Lighting Poles, Mast Arm Signal Poles, Span Wire Poles, Pedestal Traffic les
	Removed – shall
	Removed – certified mill tests
	Added – certificates of compliance for
	Added – to the Materials & Research Division
Page 27-6, Note 18, Gray	Iron Castings (Cast Iron Grates, Frames, Pull Box Frames and Covers, Junction Boxes, etc.)
	Removed – When these items are furnished from the Lincoln or Omaha area, they will probably be
	supplied from a tested pour representing stock at the foundry. Shipments to projects from these stocks
	will be reported to the Materials & Research Division by the foundries. Castings will usually be identified
	by a letter or symbol representing the foundry, followed by numbers representing the date the casting
	was poured. The Materials & Research Division will issue a 'Report of Shipment of Gray Iron Castings'
	which will include a list of the items shipped to the project, the quantity, identification and references to
	the stock tests. This report constitutes approval of the tensile strength of the iron used in these castings.
	Since the finished castings are not inspected prior to shipment, acceptance should be based on field

	in marking the uning good unadergraphic and complicate with the discontinual and uninfect on the
	inspection showing good workmanship and compliance with the dimensional and weight requirements
	specified in the contract documents.
	Cast iron materials furnished from other sources may not be supplied from tested stocks. In this case,
	the project manager shall obtain the manufacturer's certificate of compliance for this material from the
	contractor prior to installation.
	Added – Gray iron castings may be sent directly to the project provided the supplier sends an approved
	NDOT shipping report along with the load. This completed shipping report, signed by the supplier, is sent directly to the project manager with a copy provided for the contractor. The project manager is
	responsible for documenting and authorizing this shipping report in SiteManager and OnBase.
	Cast iron materials are not supplied from tested stock, therefore, the project manager shall obtain the
	manufacturer's certificate of compliance for this material from the contractor prior to installation. The
	project manager is responsible for documenting and authorizing this shipping report in SiteManager and
	OnBase.
	Finished castings are not inspected prior to shipment, therefore, acceptance should be based on field
	inspection showing good workmanship and compliance with the dimensional and weight requirements
	specified in the contract documents.
Page 27-7, Note 22, Ref	lectors and Fasteners
	Removed – When shipment is made from approved stock, inspection tags will be attached to or placed
	within the container. Units can be used upon delivery to the project on the basis of the inspection tag.
	The Materials & Research Division will issue an acceptance report upon shipment of the units.
	The brand of reflector used must be entered in SiteManager.
	Added – Pre-approved reflectors and fasteners may be sent by the supplier directly to the project,
	provided the supplier sends an approved NDOT shipping report along with the load. This completed
	shipping report, signed by the supplier, is sent directly to the project manager with a copy provided for the
	contractor. The project manager is responsible for documenting and authorizing this shipping report in
	SiteManager and OnBase.
	The brand of reflector used and the shipping report should be documented and authorized in
	SiteManager and OnBase.
Page 27-7, Note 23, Deli	
	Removed – When delineator posts are delivered to a project from a tested and approved stock, the
	bundles will be tagged with a Department of Roads' white inspection tag (TL-5401). The project manager
	does not need to notify the Materials & Research Division and can use this material upon delivery to the
	project. A shipment report will be issued by the Materials & Research Division which will refer to the
	stock test report numbers covering the posts and show the sizes and quantities represented.
	Posts delivered to a project which are not supplied from a previously tested and approved stock should
	not be used until they have been tested and approved by the Materials & Research Division.
	Added – Pre-approved delineator posts may be sent by the supplier directly to the project, provided the
	supplier sends an approved NDOT shipping report along with the load. This completed shipping report,
	signed by the supplier, is sent directly to the project manager, with a copy provided for the contractor.

The project manager is responsible for documenting and authorizing this shipping report in SiteManager
and OnBase. NDOT inspection tags will also be included with the shipment.
Posts delivered to a project which are not supplied from a previously tested and approved stock, must be
sampled by field personnel and submitted to Materials & Research for testing and approval.
Page 27-8, Note 25, Treated and Untreated Timber Piling, Treated Timber Sheet Piling, Fence Posts, Treated and Untreated Lumber, Treated and Untreated Timber, Wood Guard Rail Posts, Offset Blocks, Treated Poles and Sign Posts
Removed – These materials are normally accepted on the basis of Certificates of Compliance from the
producer and treater or Certificates of Inspection and Treatment from a commercial testing laboratory
arranged for by the supplier and approved by the Materials & Research Division.
Materials accepted on the basis of Certificates of Compliance from the producer and treater will usually
not have any identifying hammer mark on the end.
Materials accepted on the basis of Certificate of Inspection and Treatment from a commercial testing
laboratory will have a hammer mark on the end of each piece.
Wood materials may be used upon delivery to the project provided they have not been damaged and the
proper identifying hammer mark is on the end of each piece and the report covering the inspection is on
hand or the project manager has received approved Certificates of Compliance from the Materials &
Research Division the for the materials delivered.
If material is delivered to the project prior to receipt of the test reports or Certificate of Compliance, the
project manager shall notify the Materials & Research Division promptly, giving all pertinent data such as
project number, name of jobber or supplier, the mill or treating plant, car number, hammer mark, number
of pieces, and any other information available. Action can then be started to obtain the test report of
Certificate of Compliance in the event it has not been received at the laboratory.
Wood items are sometimes tested and placed in stock at jobber's plants. The Materials & Research
Division has the test reports supplied by the commercial testing agency or the Certificates of Compliance
from the producer and treater for any material which they have inspected and approved for the
department. When the jobber makes a shipment to a state project, he submits a shipment report (Form
TL-5162) to the Materials & Research Division showing the project number and other pertinent
information. If the material shown on the shipment report is as specified for the project and reports
covering the inspection and approval of the material are on file at the Materials & Research Division, the
report is signed by Materials & Research Division and sent to the project manager.
Added – These materials are normally accepted on the basis of certificates of compliance from the
producer and treater or certificates of inspection and treatment from a commercial testing laboratory
arranged for by the supplier and approved by the Materials & Research Division.
Materials accepted on the basis of certificates of compliance from the producer and treater will usually
not have any identifying hammer mark on the end.
Materials accepted on the basis of certificate of inspection and treatment from a commercial testing
laboratory will have a hammer mark on the end of each piece.
Wood materials may be used upon delivery to the project provided they have not been damaged and the
proper identifying hammer mark is on the end of each piece and the report covering the inspection is on
 The state of the s

			hand or the project manager has received approved certificates of compliance for entry into SiteManager
			and OnBase.
Section 20 O	Viality Assu	rongo Drogrom	for Construction Materials
			for Construction Materials ampling and Testing Personnel Qualification Program
Pa	age 26-A-2,	Appendix A, Sa	ampling and resting Personnel Qualification Program ation Procedure, A4.2.1.
		A4. – Qualifica	Removed – NDOR employees
			Added – project inspection staff
			Removed – employee
			Added – inspection personnel
			Removed – An employee
			Added – Project inspection staff
Do	20 17	Toble A4 Too	t Methods for Qualification of Sampling and Testing Personnel
Pa	age 26-A-7,		
		Concrete Field	Inspector/General Handling of Concrete
			Added – Certification will be completed online. Please see instructional quick reference guide here.
			Removed – Certification will be completed online. This enrollment requires an NHI User ID and
			password. Follow these steps to sign up for and register completion of a session.
			Log in to the individual NHI user account.
			2. Use the course search engine to locate course number FHWA-NHI-131122, Portland
			Cement Concrete Paving Inspection – Web-Based.
			3. To enroll, select 'Add to Cart'.
			4. When all course selections have been made, select 'Checkout'.
			5. Follow the checkout steps. Once the registration is completed, confirmation will be
			transmitted via email.
			a. If enrolled in web-based training, access is immediately available via 'My
			Training'.
			 b. A Certificate of Completion will be presented, in .pdf format, when ALL COURSE MODULES have been fulfilled.
			c. Forward the certificate to SiteManager
			Dor.SitemanagerMaterials@nebraska.gov
Po	29 A 10	Table A1 Te	est Methods for Qualification of Sampling and Testing Personnel
Pa	aye 20-A-10	Earthwork Tec	
		Lattiwork 160	Removed – Prerequisite: Radiological Safety/Hazardous Material
			Added – NA
Da	ana 28-∆-13	R Table A1 - Te	est Methods for Qualification of Sampling and Testing Personnel
Fa	age 20-A-13		d Field Technician Certifications - Provisional
		Laboratory arr	Removed – employees only
			Added – project inspection staff
			Added project inspection stail

	Concrete Field Inspector/General Handling of Concrete Provisional Certification
	Removed – NDOR New Hires/Temporary
	Added – Project inspection staff conducting sampling and testing without full certification
	Soil Aggregate Technician Provisional Certification
	Removed – NDOR New Hires/Temporary
	Added – Project inspection staff conducting sampling and testing without full certification
	Asphaltic Technician Provisional Certification
	Removed – NDOR New Hires/Temporary
	Added – Project inspection staff conducting sampling and testing without full certification
	Appendix F, Nebraska Department of Transportation Annual Report to FHWA On System Wide Approach of Independent sting National Highway System – Annual FHWA IA Program Report
	Assessment of Lab Qualifications for Federally Funded Projects
	Removed – Asphalt footnote designation
	Removed – Concrete footnote designation
	Removed – Soil footnote designation
	Appendix F, Nebraska Department of Transportation Annual Report to FHWA On System Wide Approach of Independent sting National Highway System – Annual FHWA IA Program Report
	Assessment of Technician Certification Status
	Removed – footnote designation
	Appendix F, Nebraska Department of Transportation Annual Report to FHWA On System Wide Approach of Independent sting National Highway System – Annual FHWA IA Program Report
	Assessment of Technician Certification Status
	Removed – footnote designation
	Appendix F, Nebraska Department of Transportation Annual Report to FHWA On System Wide Approach of Independent sting National Highway System – Annual FHWA IA Program Report
	Removed – Footnote I – City of Lincoln does not use contractor QC tests in their acceptance decision.
	Removed – Footnote II – City of Lincoln does not use contractor QC tests in their acceptance decision.
	Removed – Footnote III – City of Lincoln does not use contractor QC tests in their acceptance decision.
	Removed – Footnote IV – If a technician is both certified and provisionally certified, the certification will be recorded in column B.
	Removed – Footnote V – Provisional certifications are not acceptable for consultants or LPA employees.
	Removed – Footnote VI – LPA and consultant technicians are reported here.
	
Section 29, Policies	
	olicy 6, Acceptance Policy for Slag Cement fir Use in Concrete
	Removed This policy was removed effective January 1, 2014.
	Added – Policy 6, Acceptance Policy for Slag Cement fir Use in Concrete
	olicy Concerning Concrete and Precast Pipe Plant Certification Including Testing, Inspection and Approval of Reinforced ert and Sewer Pipe and Concrete Flared-End Sections
Concrete Culv	en and Dewei Fipe and Concrete Fiared-End Sections

	Removed – Federal 'Buy American Act' provisions
	Added – federal Buy America requirements