

STATE OF LOUISIANA

**US 90 (I-49 SOUTH)
ALBERTSON'S PARKWAY TO
AMBASSADOR CAFFERY
DESIGN-BUILD PROJECT**

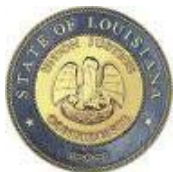
LAFAYETTE PARISH

**STATE PROJECT NO. H.010620
FEDERAL AID PROJECT NO. H010620**

REQUEST FOR PROPOSALS

DB SECTION 112

**DESIGN-BUILDER CONSTRUCTION
QUALITY CONTROL AND QUALITY
ASSURANCE**



DB SECTION 112

**DESIGN-BUILDER CONSTRUCTION
QUALITY CONTROL
AND QUALITY ASSURANCE**

DB 112-1 GENERAL

The Louisiana Department of Transportation and Development (LA DOTD) has developed a project specific Construction Quality Assurance Program (CQAP) that will govern and guide the Construction Quality Control and Assurance aspects of this project. This section 112 and the CQAP Sections 2 and 3 require that the Design-Builder develop a Design-Builder's Construction Quality Management Plan (CQMP) which will functionally be viewed as part of the overall CQAP. The Design-Builder is provided a copy of the CQAP concurrently with this RFP as an Unpublished Standard.

As the project owner the LA DOTD or their representative will, in accordance with the CQAP and DB Section 112 and 113 conduct periodic construction inspection; materials verification sampling and testing, Owner Verification and provide for an Independent Assurance (IA) testing and inspection process through the LA DOTD District 03 Laboratory.

As per the CQAP and this Design-Build (DB) Section 112, and prior to the commencement of any construction activities, the Design-Builder shall develop and implement a Construction Quality Management Plan (CQMP) for all phases of the construction. The Design-Builder, through its CQMP, shall have the primary responsibility for the quality control of the Work, including all Work and products of Subcontractors, fabricators, Suppliers, and vendors both on-site and off-site. The Design-Builder may engage an Engineering Laboratory and/or and engineering firm to facilitate this work. If an Engineering Laboratory or Engineering Firm is engaged it cannot be the Design Builder's CQAF (see DB Section 112-11) or Laboratory used by the CQAF.

In the CQMP the Design-Builder's Construction Quality Acceptance Firm (CQAF) (DB Section 112-11) will provide Quality Acceptance testing, sampling and construction inspection which will be statistically validated and/or verified through the LA DOTD's Owner Verification Testing and Inspection Plan (OVTIP), in accordance with the CQAP.

The CQMP of the Design-Builder must ensure that procurement, shipping, handling, fabrication, installation, cleaning, Inspection, construction, testing, storage, examination, repair, maintenance, personnel qualifications, procedures for auditing, documentation and required modifications of all Materials, Equipment, and elements of the Work will comply with the requirements of the Contract Documents and that all Materials incorporated in the Work and all Equipment and all elements of the Work will perform satisfactorily for the purpose intended.

All aspects of the Design-Builder's QC program will be managed by the Design-Builder's Construction Quality Control Manager (CQCM) (DB Section 112-7.2).

All aspects of the Design-Builder Quality Acceptance will be managed by the Design-Builder's Construction Quality Acceptance Manager (CQAM) (DB Section 112-13).

The CQAM and CQCM shall report directly to the Design-Builder's Quality Manager.

DB 112-1.1 Definitions

See Design-Build Section 101-3 and the CQAP for definitions.

DB 112-2 CONSTRUCTION QUALITY CONTROL SAMPLING AND TESTING OF MATERIALS

DB 112-2.1 General

All Materials are subject to Inspection, sampling, and testing by LA DOTD at any time before Final Acceptance of the Work.

References in the Contract to a Louisiana test method or test designation of the American Association of State Highway and Transportation Officials (AASHTO), the American Society for Testing and Material (ASTM), or any other recognized national organization means the latest revision of that test method or specification for the Work in effect on the Proposal due date.

Materials will be sampled and tested by the construction QC staff in accordance with the Design-Builders approved CQMP. QC test and inspection reports conducted by the Design- Builder's QC staff assuring that its process and Materials source is producing an acceptable product are Design-Builder internal documents but must be made available to CQAF or LA DOTD for review if requested. These QC tests on processes usually occur when an operation is begun and when changes occur in the source of Materials or method of production.

The LA DOTD's designated representative may observe any sampling testing performed by the QC staff. If the LA DOTD's designated representative observes a deviation from the specified sampling or testing procedures, the LA DOTD's designated representative will verbally describe within 24 hours the observed deviation to the Design-Builder's Construction Quality Control Manager (CQCM).

DB 112-2.2 Construction Quality Control Testing, Sampling and Inspection

All construction processes, procedures, and workmanship must be inspected by the Design-Builder's Construction Quality Control (QC) staff. The Construction QC staff must perform the observations, measurements, and documentation specified in Appendix 112A and the Design-Builder's (CQMP).

The Design-Builder's construction QC staff must perform sampling and testing Materials to be used on the Project. Although not used for acceptance, QC testing and inspection shall ensure quality has been incorporated into all elements of work prior to requesting acceptance testing and inspection from CQAF. Personnel responsible for performing the quality control inspection and testing shall be knowledgeable and receive training to perform their QC duties.

DB 112-3 DESIGN-BUILDER QUALITY CONTROL

The Design-Builder shall provide process control measures adequate to produce a constructed product of acceptable quality that conforms to the Contract Documents. The Design-Builder shall perform QC sampling, testing, and Inspection during all phases of the Work at a minimum frequency consistent with the Design-Builder's CQMP as approved by the Department's Project Manager and the individual Project Specifications accepted by the Department's Project Manager.

The Design-Builder shall provide personnel and Equipment capable of providing a product that conforms to specified requirements and shall provide personnel and Equipment capable of verifying and documenting this conformance. Continual production of non-conforming Work will not be allowed.

DB 112-4 DESIGN-BUILDER'S CONSTRUCTION QUALITY CONTROL ORGANIZATION

The Design-Builder's Quality Management Plan (CQMP) must provide the information regarding the construction Quality Control organization.

DB 112-4.1 Construction Quality Control Manager

The Design-Builder shall assign an on-site CQCM. This individual will be considered one of the Project's key personnel.

The Design-Builder's CQCM will be responsible for overall management and supervision for the quality control aspect of the CQMP. The Design-Builder's CQCM must be a Louisiana-licensed Professional Engineer. The Design-Builder's CQCM must report directly to the Design-Builder's Quality Manager (DB Section 113).

The Design-Builder's CQCM, or his/her designees, must be delegated the authority to make needed improvements to the quality of Work, including the suspension of the Work if required.

The Design-Builder's CQCM must be responsible for coordinating the schedules of the Design-Builder's construction QC Inspectors and construction QC staff with the Design-Builder's construction activities so as not to delay the Design-Builder's operations due to Construction QC Inspection, sampling, and testing activities.

DB 112-4.2 Staffing Levels

The actual size of the field/Site staff will reflect the complexity, needs, shifts, and composition of QC Activities consistent with Work in progress.

The Design-Builder's CQMP must identify administrative and clerical support for the maintenance and management of records and documents pertinent to QC activities.

The QC staffing schedule must be updated as necessary throughout the Contract duration to reflect accurate forecasting of QC staffing requirements.

DB 112-5 DESIGN-BUILDER SCHEDULING AND NOTICE TO THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

The Design-Builder shall notify the LA DOTD in writing by Friday noon of each week of planned construction activities, including fabrication and all anticipated material quantities for sampling and testing, for the following two weeks to allow the LA DOTD to schedule its resources. The Design-Builder shall deliver this information at the weekly progress meeting where related discussion will occur. For activities (such as fabrication) occurring out of the immediate Project area (beyond 100 miles of the Project), the Design-Builder shall give the LA DOTD at least 21 Calendar Days of notice of planned Work.

DB 112-6 QUALITY CONTROL DOCUMENTATION

With the exception of Materials Certifications. All documents generated by the Design-Builder while conducting its internal QC activities are property of the Design-Builder, however, these documents must be made available to the CQAF and LA DOTD for review if requested.

DB 112-7 DESIGN-BUILDERS QUALITY ACCEPTANCE

The Design-Builder will engage an Engineering firm to performed Quality Acceptance (QA) Inspection, sampling and testing. The Design-Builder's QCMP will be developed to include QA Inspections, sampling and testing in addition to QC Inspections, sampling and testing. The QCMP development and the approval of the QCMP will be based upon Section 2 and 3 of the CQAP and this DB Section 112.

DB 112-8 CONSTRUCTION QUALITY ACCEPTANCE FIRM

The Design-Builder shall hire an independent Construction Quality Acceptance Firm (CQAF) to assist in the development of the CQMP and to carry out the Design-Builder QA inspection, sampling and testing activities and documentation during construction, in accordance with the approved QCMP. The CQAF may observe but will not participate in the performance of the Design-Builder's QC activities.

BD 112-9 CONSTRUCTION QUALITY ACCEPTANCE MANAGER

The CQAF will assign an on-site Construction Quality Acceptance Manager (CQAM). The CQAM will be responsible for overall management and supervision for the quality acceptance aspect of the CQMP. The Design-Builder's CQAM must be a Louisiana-licensed Professional Engineer. The Design-Builder's CQAM must report directly to the Design-Builder's Quality Manager (DB Section 113) and to the LA DOTD.

The CQAM cannot report to any person or party directly responsible for design or construction production. The CQAF and the CQAM shall cooperate with the LA DOTD or its representatives.

The CQAM, or his/her designees, must be delegated the authority to make needed improvements to the quality of Work, including the suspension of that portion of Work being performed with a quality that does not meet the Contract Documents.

The LA DOTD's designated representative may observe any sampling testing performed by the QA staff. If the LA DOTD's designated representative observes a deviation from the specified sampling or testing procedures, the LA DOTD's designated representative will verbally describe within 24 hours the observed deviation to the Design-Builder's Construction Quality Acceptance Manager (CQAM), followed by a written Non-Conformance Report (NCR) covering the deviation to the Design-Builder's CQMC and Project Manager. *See also* DB Section 109-4.4.

The CQAM must be responsible for coordinating the schedules of the Design-Builder's construction QA Inspectors and construction QA staff with the Design-Builder's construction activities so as not to delay the Design-Builder's operations due to Construction QA Inspection, sampling, and testing activities.

DB 112-10 COMPETENCE

If a concern arises as to the competence of any certified individual of the QA staff, this concern must be documented in writing to the Design-Builder's Project Manager and the Department's Project Manager. The concern will be investigated as deemed necessary by the Department's Project Manager. If this investigation substantiates the concern, corrective action, or decertification will be implemented in accordance with procedures established by the LA DOTD. *See also* DB Section 108.

DB 112-11 CONSTRUCTION INSPECTION AND ACCEPTANCE

All construction processes, procedures, and workmanship must be inspected by the QA staff independently and in addition to the QC staff. The Construction QA staff must perform the observations, measurements, and documentation specified in Appendix 112A and the Design-Builder's (CQMP) in addition to verifying that work is performed in accordance to the release-for-construction plans, approved shop drawings, and working drawings.

Construction inspection will be conducted and documented as provided for in the Design-Builder's QCMP and the CQAF for this project. Construction Inspections will be independently performed by the Design Builder's QC, the CQAF and the LA DOTD's representative. The Design-Builder, the CQAF and the LA DOTD representative can each stop work should the documented results of the inspection deem it necessary in accordance with the CQAF Sampling and Testing Manual.

DB 112-12 MATERIALS SAMPLING AND TESTING FOR ACCEPTANCE

DB 112-12.1 Design Builder's Quality Acceptance

Through the CQAF, the Design-Builder is responsible for Quality Acceptance sampling and testing of the materials incorporated into the Work. These samples and tests are statistically validated by Owner Verification (OV) sampling and testing prior to material acceptance.

The QA staff must perform sampling and testing for acceptance of Materials used on the Project. Construction QA staff must be certified, including, among other prudent and necessary certifications, LA DOTD certifications, for the level appropriate for the Work being sample/tested. The DB must maintain a list of construction QA staff that indicates what test certifications each person currently holds. Testers and samplers will be allowed 90 working days from execution of the Contract to obtain the certifications.

The QA staff will test only those Materials for which they are certified to sample and test.

The minimum frequency of QA sampling and testing must be consistent with the Design-Builder's Sampling and Testing Guide as provided in the CQAF.

DB 112-12.2 Laboratories

Laboratory QA testing must be conducted by testing laboratories, independent of other project laboratory testing as defined by the CQAF, that comply with the requirements for LA DOTD certification for applicable tests. Laboratories must be accredited under the AASHTO Accreditation Program (AAP). The Laboratory must also participate in the AASHTO Material Reference Laboratory (AMRL), the Concrete Cement Reference Laboratory (CCRL), or CMEC for HMA, the National Precast Concrete Association

(NPCA) for precasters, or the Prestressed Concrete Institute (PCI), as appropriate, for the Work to be constructed. Louisiana Department of Transportation and Development certification must be obtained for all AASHTO and ASTM test methods to be performed by the testing laboratory. Certification must also be obtained for AASHTO and ASTM test methods that are modified or referenced by Louisiana test methods.

Satellites (field laboratories) of these laboratories may be used where appropriate for the tests being conducted. The Equipment in the satellite laboratories must be certified at the start of Work and annually thereafter. Certification must be by an independent party.

The laboratory must have written policies and procedures to assure portable and satellite laboratories performing testing activities on the Project are capable of providing testing services in compliance with applicable test methods. The policy and procedures must address Inspection and calibration of testing Equipment as well as a correlation testing program between the accredited laboratory and portable or satellite facilities.

The LA DOTD reserves the right to check testing Equipment for compliance with specified standards and to check testing procedures and techniques.

The LA DOTD also reserves the right to access the testing facilities of the testing laboratories with no additional cost to the LA DOTD to witness the testing and verify compliance of the testing procedures, testing techniques, and test results.

The LA DOTD's rights to check Equipment, procedures, and techniques and to access testing facilities will also apply to Project Stakeholders when the Design-BUILDER is performing Work on their facilities.

DB 112-13 VALIDATION AND VERIFICATION OF MATERIALS SAMPLING AND TESTING

The LADOTD, or its representative, is solely responsible for all Validation and Verification sampling and testing of materials incorporated into the project. LA DOTD's role in Quality Assurance and Construction Acceptance is described within the CQAP and DB Section 115.

DB 112-14 QUALITY ACCEPTANCE DOCUMENTATION

The CQAF shall maintain electronically and transmit to LA DOTD daily inspection reports within 24 hours after work shift in a format acceptable to the LA DOTD. Content of the report is further detailed in the project CQAP. All material certifications and test results must accompany the daily for the work incorporated that day.

DB 112-15 MATERIAL CERTIFICATIONS

WHEN THE DESIGN-BUILDER PURCHASES MATERIALS FROM PROVIDERS/SUPPLIERS SHOWN ON THE LA DOTD'S APPROVED MATERIALS OR SOURCE LIST, THE DESIGN-BUILDER SHALL OBTAIN AND RETAIN A MATERIALS CERTIFICATION (CERTIFICATE OF DELIVERY, CERTIFICATE OF ANALYSIS, OR CERTIFICATE OF COMPLIANCE, AS REQUIRED) FROM THE PROVIDER/SUPPLIER COVERING THE MATERIAL AND/OR THE SOURCE.

Louisiana Department of Transportation and Development

Documentary evidence that Material and Equipment conform to the procurement requirements must be available at the job Site no less than 24 hours prior to installation or use of such Material and Equipment. This documentary evidence must be retained at the job Site and must be sufficient to identify the specific requirements, such as, Contract Documents, codes, standards, or specifications, met by the purchased Material and Equipment. Additionally, a copy of all documentary evidence that Material and Equipment conform to the procurement requirements must be provided to the LA DOTD, or its designated representative, at the same time the Design-Builder receives such documentary evidence. The effectiveness of the QC by the Design-Builder's own forces and Subcontractors must be assessed by the Design-Builder and the Quality Acceptance Firm at intervals consistent with the importance, complexity, and quantity of the product or services.

The Louisiana Department of Transportation and Development reserves the right to inspect and review these documents at any time.

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REQUEST FOR PROPOSALS

APPENDIX 112A CONSTRUCTION
QUALITY CONTROL INSPECTION



APPENDIX 112A

CONSTRUCTION QUALITY CONTROL INSPECTION

ACTIVITY	INSPECTION REQUIREMENT	DOCUMENTATION FORMS(S)
All	<ul style="list-style-type: none"> • Location and type of work • Personnel and Equipment • Weather and Site conditions • Checks for compliance with Design Plans and Project Specifications • Extent of Work • Problems encountered 	DOTD Form 03-40-3093, Project Diary
Signs and Barricades	<ul style="list-style-type: none"> • Location, stationing, and distance from edge of road • Visibility, height above road, condition of signs • Daily to ensure condition • Night inspections initial and periodic for reflectivity 	
Clearing and Grubbing	<ul style="list-style-type: none"> • Clearing and grubbing limits • Disposal • Protection of surroundings from damage • Removal of large roots and stumps • Blading the site to ensure drainage • Temporary erosion control <ul style="list-style-type: none"> ~ Mulch ~ Seeding ~ Slope drains ~ Silt fencing ~ Hay bales 	
Removals	<ul style="list-style-type: none"> • Ensure that only designated structures, facilities, or obstructions are removed or relocated • Obtain certificates of release • Proper notifications given for removal of Underground Storage Tanks (UST) and other hazardous materials • Disposal of materials 	DOTD Form 03-42-0671, Certificate of Release 202 Sample Form

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ACTIVITY	INSPECTION REQUIREMENT	DOCUMENTATION FORMS(S)
Utility Relocation	<ul style="list-style-type: none"> • Located clear of construction • Backfills adequately compacted 	
Culverts and Storm Drains	<ul style="list-style-type: none"> • Adequate structure • Backfill material, bedding material, and fabrics sampled and approved • Damage in transit • Certificate of Delivery • Excavation • Laying pipe • Bedding and backfill • Joints closed and wrapped • Compaction and compactive effort 	DOTD Form 03-22-0750, Density and Moisture Content Worksheet Certificate of Delivery – Culverts 701 Sample Form
Earthwork	<ul style="list-style-type: none"> • Area preparation • Soils sampled and approved • Lift thickness • Compaction and compactive effort • Slope and grade 	DOTD Form 03-22-0750, Density and Moisture Content Worksheet 203 Sample Form
Trench, Culvert, and Structural Excavation	<ul style="list-style-type: none"> • Safety • Support and protective system • Disposal of excavated material 	
Geotextile	<ul style="list-style-type: none"> • Brand name and type • Protection of material • Material acceptance 	

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ACTIVITY	INSPECTION REQUIREMENT	DOCUMENTATION FORMS(S)
Cement Stabilized Base and Sub-base Course	<ul style="list-style-type: none"> • Subgrade approved • Select soils sampled and approved • Cement approved • Pulverization and moisture content • Compaction and compactive effort • Spread rate • Shaping and finishing • Time limitations • Curing 	DOTD Form 03-22-0750, Density and Moisture Content Worksheet Certificate of Delivery – Cement 301 Sample Form
Lime Treatment	<ul style="list-style-type: none"> • Area preparation • Lime approved • Equipment used • Compaction and compactive effort • Spread rate • Shaping and finishing • Curing 	DOTD Form 03-22-0750, Density and Moisture Content Worksheet Certificate of Delivery – Lime 304 Sample Form
Stone Base	<ul style="list-style-type: none"> • Area preparation • Material sampled and approved • Compaction and compactive effort • Curing membrane 	DOTD Form 03-22-0750, Density and Moisture Content Worksheet 301 Sample Form

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ACTIVITY	INSPECTION REQUIREMENT	DOCUMENTATION FORMS(S)
Asphaltic Concrete	<ul style="list-style-type: none"> • Surface prepared • Materials sampled and approved • Plant and Equipment calibrated and approved • Temporary traffic tape • Signing and flagging • Certified technicians • Weather conditions • Mix design submitted and approved • Plant operation • Temperature of mix • Spreading and finishing • Compaction/pavement density • Joints • Surface tolerances 	DOTD Form 03-22-3080, Asphaltic Concrete Pavement Report 501 Sample Form Certificate of Delivery – Asphaltic Materials Asphaltic Concrete Plant Report
Portland Cement Concrete Paving	<ul style="list-style-type: none"> • Surface prepared • Materials sampled and approved • Plant and Equipment calibrated and approved • Forms • Dowels and load transfer devices • Mix design submitted and approved • Placing and spreading concrete • Finishing and texturing • Joints • Surface tolerance • Slump and air • Curing • Removing forms (fixed form paving) • Protection of pavement • Sealing joints 	DOTD Form 03-22-4028, Batch Certification DOTD Form 03-22-4035, Portland Cement Concrete Pavement Report
Aggregate Surface Course	<ul style="list-style-type: none"> • Surface prepared • Materials sampled and approved • Equipment approved • Compaction and compactive effort 	401 Sample Form

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ACTIVITY	INSPECTION REQUIREMENT	DOCUMENTATION FORMS(S)
Incidental Concrete Work – Sidewalks and Drives	<ul style="list-style-type: none"> • Surface prepared • Forms • Mix design submitted and approved • Depth • Cylinders • Curing 	706 Sample Form
Driven Piles	<ul style="list-style-type: none"> • Type, size, and length of pile • Test piles driven and loaded • Pile lengths approved • Installation plan and equipment approved • Location of piles • Storing, handling, and damage to piles before and during driving • Adequate bearing capacity achieved 	804-01 Sample Form
Drilled Shafts	<ul style="list-style-type: none"> • Installation plan • Safety • Excavation methods • Casings – temporary and/or permanent • Slurry • Location, size, and alignment • Reinforcing steel • Concrete placement and finishing • Verification of integrity of shafts 	

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ACTIVITY	INSPECTION REQUIREMENT	DOCUMENTATION FORMS(S)
Structural Concrete	<ul style="list-style-type: none"> • Forms, re-steel, and equipment • Weather • Ambient temperature • Slump and air tests • Placement and vibrating • Cylinders • Surface finish • Curing 	805-01 Sample Form
Reinforcing Steel	<ul style="list-style-type: none"> • Storage and handling • Sampled and approved • Placement and fastening • Splices 	805-01 and 805-03 Sample Forms
Prestressed Concrete Units	<ul style="list-style-type: none"> • Fabrication <ul style="list-style-type: none"> ~ Equipment approval ~ Concrete mix design ~ Concrete placement and vibration ~ Approved forms ~ Curing ~ Tensioning ~ Storage and transportation • When receiving units <ul style="list-style-type: none"> ~ Inspector's stamp of approval ~ Certificate of delivery ~ Damage during shipment ~ Dimensional tolerance and camber ~ Visual defects • Erection • Repair of defects 	

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Structural Steel	<ul style="list-style-type: none"> • Fabrication <ul style="list-style-type: none"> ~ Shop drawings ~ Mill test reports ~ Storage of materials and fabricated items ~ Shop assembly ~ Certified test reports for bolts and nuts ~ Coating • Field Erection <ul style="list-style-type: none"> ~ Sequence ~ Falsework ~ Site storage and handling ~ Connections 	
Bridge Bearings	<ul style="list-style-type: none"> • Materials • Fabrication • Protective coatings • Bearing surface preparation • Anchor bolts • Pad installation 	
Bridge Joint Systems	<ul style="list-style-type: none"> • Materials • Fabrication • Cleaning • Assembly • Installation <ul style="list-style-type: none"> ~ Preparation ~ Handling and storage 	
Structural Steel Paint System	<ul style="list-style-type: none"> • Materials <ul style="list-style-type: none"> ~ Abrasive ~ Paint ~ Paint Inspection Equipment • Cleaning • Paint application methods • Shop painting • Field painting 	

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<p>Superstructure Slabs and Approach Slabs</p>	<ul style="list-style-type: none"> • Forming <ul style="list-style-type: none"> ~ Forms ~ Support systems ~ Haunch depths ~ Joints ~ Drainage • Placing and fastening reinforcing steel • Concrete operations <ul style="list-style-type: none"> ~ Prior to placing ~ Placing sequence ~ Adequacy of personnel and equipment ~ Concrete supply ~ Curing materials ~ Admixtures <ul style="list-style-type: none"> ○ Weather and temperature ○ Placing ○ Finishing ○ Curing 	<p>805-03 and 806-01 Sample Forms</p>
<p>Permanent Erosion Control</p>	<ul style="list-style-type: none"> • Final dressing of area • Area determinations • Spread rate for seed and fertilizer • Watering 	<p>714-01 thru 720-01 Sample Forms</p>
<p>Maintenance and Protection of Traffic</p>	<ul style="list-style-type: none"> • Materials • Surface condition • Intersecting traffic • Dust control and spillages • Flaggers • Delineation and guiding devices • Construction signs, temporary barriers, barricades, and lighting • Pavement markings • Pavement drop-off protection 	
<p>Signs</p>	<ul style="list-style-type: none"> • Materials • Fabrication • Sign face construction • Work sequence 	

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	<ul style="list-style-type: none"> • Location • Erection • Transporting, handling, and storage • Foundations • Sign posts • Breakaway bases 	
Traffic Signals	<ul style="list-style-type: none"> • Materials • Underground facilities • Schedule • Excavation • Pole excavation and concrete foundations • Poles • Grounding • Conduit and direct burial cable • Pull boxes • Signal control cable and shielded communications cable • Cable splices • Span wire assemblies • Messenger assemblies • Buy assemblies • Signal heads • Wiring color code • Concrete base for controller assembly • Power meter base • Overhead traffic signs 	
Pavement Markings	<ul style="list-style-type: none"> • Atmospheric conditions • General requirements • Materials • Surface cleaning and preparation • Equipment • Application of markings 	

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REQUEST FOR PROPOSALS

APPENDIX 112B FORMS



**APPENDIX 112B
FORMS**

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Form NCR-C – Construction Non-Conformance Report

FORM NCR-C

CONSTRUCTION NON-CONFORMANCE REPORT

From: _____ Date: _____
(Name and initials of Construction QC Manager or Department's Project Manager or Designee)

To: _____
(Names of Design-Builder)

_____**[Insert the name of the project]**____ Design-Build Project
State Project No. _____**[Insert the state project number]**____ and Federal Aid Project No. _____**[Insert the federal-aid project number, for federal projects only]**____

Transmittal/File No. _____

Price Center Code: _____ Applicable Contract Requirement: _____
(Part and Section Number)

The Work on the referenced Price Center is not in conformance with the noted Contract requirement for the reasons stated below (Attach additional sheets as necessary):

RESOLUTION: _____ Date: _____

From: _____
(Names and Design-Builder's Project Manager and Construction Quality Control Manager)

To: _____
(Name of Department's Project Manager)

The above noted construction non-conformance has been corrected and/or resolved as indicated below (attach additional sheets as necessary):

Acknowledgement of Receipt: _____ Date: _____
(Name and initials of Department's Project Manager or Designee)

Comments by Department's Project Manager, if any: [See attached sheets(s)]

Send copy of completed, acknowledged form to the Design-Builder's and Department's Project Manager's files.