

STATE OF LOUISIANA

INTERSTATE-12 WIDENING

DESIGN-BUILD PROJECT

O'NEAL LANE INTERCHANGE TO WALKER
EAST BATON ROUGE AND LIVINGSTON PARISHES
STATE PROJECT NOS. 454-01-0047 AND 454-02-0025

SCOPE OF SERVICES PACKAGE

CONTRACT DOCUMENTS

APPENDIX 112A

CONSTRUCTION QUALITY CONTROL

INSPECTION



Louisiana Department of Transportation and Development

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 	<p>DOTD Form 03-22-3080, Asphaltic Concrete Pavement Report</p> <p>501 Sample Form</p> <p>Certificate of Delivery – Asphaltic Materials</p> <p>Asphaltic Concrete Plant Report</p>

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ACTIVITY	INSPECTION REQUIREMENT	DOCUMENTATION FORMS(S)
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 	<p>DOTD Form 03-22-4028, Batch Certification</p> <p>DOTD Form 03-22-4035, Portland Cement Concrete Pavement Report</p>
Aggregate Surface Course	<ul style="list-style-type: none"> • Surface prepared • Materials sampled and approved • Equipment approved • Compaction and compactive effort 	401 Sample Form
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

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ACTIVITY	INSPECTION REQUIREMENT	DOCUMENTATION FORMS(S)
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 	

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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 	
Superstructure Slabs and Approach Slabs	<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 	805-03 and 806-01 Sample Forms
Permanent Erosion Control	<ul style="list-style-type: none"> • Final dressing of area • Area determinations • Spread rate for seed and fertilizer • Watering 	714-01 thru 720-01 Sample Forms

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<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 • Location • Erection • Transporting, handling, and storage • Foundations • Sign posts • Breakaway bases 	

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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 	