STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
TECHNICAL SPECIFICATIONS FOR

SHOULDER WIDENER ATTACHMENT

SERIES NO. 221-800 **REV. 10/7/2026**
EQUIPMENT SPECIFICATION 221-800F

GENERAL

This specification sets forth the minimum requirements for a hydraulically driven, dual discharge, shoulder widener attachment used for dispensing shoulder widening material or aggregate material applications.

Equipment shall be new, a production model of current manufacture, and must meet all state and Federal safety and emission standards in effect at time of order.

REPRESENTATIVE SPECIFICATIONS

A Roadwidener FH-R, with appropriate options and standard features, was used to develop these specifications and establish equivalency evaluation criteria.

Equipment of similar style, type, character, quality, features, and purpose conforming to the following detailed requirements/specifications will be considered. For evaluation purposes, bidders proposing an exception/equivalent option/feature to those specified herein, may be required to provide manufacturer/product information (catalogue sheets, detailed specifications, pictures, etc.). This information will be evaluated against the minimum requirements of this specification. Proposed submittals that are determined not to be equivalent to the established criteria will be rejected.

LOUISIANA AUTHORIZED DEALER(S)

Proposed item(s) must be from a manufacturer who has at least one (1) authorized dealer **within the State of Louisiana** where parts and service can be obtained. Authorized dealer(s) must have properly trained technicians plus all other resources necessary to perform warranty and repair services in complete accordance with the manufacturer's requirements. A letter certifying the ability to meet this requirement, inclusive of the company name(s) and address(es) of the Louisiana authorized dealer(s), shall be supplied with the bid submittal and may be required prior to award.

DELIVERY & ACCEPTANCE

Vendor shall perform a test run of each unit to verify that all features and capabilities are operating properly at time of delivery. Documentation of testing may be required prior to acceptance by the Department.

Unit(s) must be delivered completely assembled (including all components, accessories, etc.) and ready for operation without any additional preparation including, but not limited to, ensuring all fluid levels are at their full mark, fuel tank(s) is full, all necessary lubrication has been performed, etc.

Any unit delivered under this specification is subject to rejection if there is evidence of poor workmanship, by either the vendor or the original manufacturer. Noted defects and/or nonconformance findings may be corrected by the vendor. Corrections must be completed and approved by the Equipment Engineer or his representative prior to final acceptance.

Unit(s) shall be delivered "**on the ground**;" DOTD will not unload nor provide any unloading equipment to the vendor/delivery driver in order to offload the unit(s).

NOTE: The Department will have space available for equipment to be unloaded.

EACH UNIT MUST BE SUPPLIED WITH THE FOLLOWING DOCUMENTATION AT TIME OF DELIVERY:

1. Owner's/Operator's Manual(s)
    a. One (1) Hardcopy
    b. One (1) Digital Copy
        i. Acceptable Formats: PDF delivered via USB "Flash Drive", or E-mail
2. Service Manual(s)
    a. One (1) Hardcopy
    b. One (1) Digital Copy
        i. Acceptable Formats: PDF delivered via USB "Flash Drive", or E-mail
3. Build Sheet(s) – as applicable
    a. One (1) Hardcopy
    b. Build sheets shall be written in plain language (not company specific codes) and include, at a minimum, all standard & optional features of the delivered unit.

NOTE: Invoices will not be processed for payment until the unit(s) have been inspected by the Equipment Engineer or their representative and deemed in compliance with the specifications.

BID SUBMITTALS

Any additions, deletions, or variations from the specifications shall be noted in the "Bidder's Exceptions" page of this specification. Exceptions that are noted to be less than a minimum requirement will not be accepted.

Any additions, deletions or variations from the manufacturer's standard published specifications shall be noted on the "Bidder's Exceptions" page of this specification. Unless otherwise noted, any items appearing in the manufacturer's standard published specifications furnished by the Bidder are assumed to be included in the Bidder's submittal.

Bidder shall note on their submittal any installation(s) to the equipment that will be performed by the vendor instead of the manufacturer.

Failure to note any specification exceptions, manufacturer specification alterations, and/or vendor installations prior to award may result in rejection of the equipment at the time of delivery.

THE NUMBER OF DELIVERY DAYS AFTER RECEIPT OF ORDER (ARO) MAY BE USED AS A FACTOR IN THE AWARD.

EQUIPMENT SPECIFICATIONS

NOTICE TO BIDDERS

Bidder shall review the detailed "Equipment Specification" completely and respond to the compliance question at the end of each section by marking "X", in the space provided, for "Yes" or "No". Mark "Yes" to indicate that the equipment bid meets the section exactly as specified. Mark "No" if there are exceptions to any part of that section. Exceptions/deviations to any part of the specification are to be detailed on the "Bidder's Exceptions" page of this specification.

IN ORDER TO BE CONSIDERED FOR AWARD, BIDDER SHALL RETURN THIS SPECIFICATION, COMPLETED IN FULL, WITH THEIR BID SUBMITTAL.

Note: All values listed below are minimums unless noted otherwise.

1. Design, Construction, and Features

1.1. General

1.1 Material placement attachment for road widening, paving, shouldering and aggregate dispensing
1.2 Attachment shall have 2 side exit chutes, one(1) left and one(1) right
1.3 Shall be capable of applying shoulder material at widths 12" - 48"
1.4 Attachment shall not exceed a total weight of 3,500 lb.
1.5 Attachment shall come with a universal mounting plate to accept standard skid steer or compact track loader mounting systems
1.6 Power Source: power supplied by hydraulic system of host equipment (skid steer, compact track loader, tractor loader backhoe, motorgrader)

Comply: ____Yes ____No

1.2. Conveyor Drive System

1.2.1. The conveyor shall be driven by a hydraulic motor
1.2.2. The conveyor drive roller shall be coupled to the motor via chain and sprocket system
1.2.3. All drive components, i.e. sprockets, chains, etc., shall be completely shielded by a removable cover
1.2.3.1. Conveyor drive shall not be accessed without removal of drive cover
1.2.4. Conveyor head and tail drum shall be held in place by external flange-type bearings, each flange bearing with a grease fitting.
1.2.5. Conveyor head and tail drum shall be 10 inch in diameter
1.2.6. Adjustable conveyor belt shall have manual adjustment

Comply: ____Yes ____No

1.3. Conveyor Feed

1.3.1. The conveyor belt shall be capable of reversing direction
1.3.2. The drive motor hoses shall connect with a quick disconnect coupler (JIC and SAE).
1.3.3. Variable conveyor speed from 0-350 ft./min
1.3.4. All hydraulic flow control valves shall be equipped with a manual override in the event of a remote control failure

EQUIPMENT SPECIFICATIONS

Comply: ____Yes ____No

1.4. Conveyor Belt
- **1.4.1.** Conveyor belt shall be 96” long x 20" wide, rubber belt type
- **1.4.2.** Capable of handling the following materials: cold mix asphalt, hot mix asphalt, crushed stone, recycled materials, gravel, topsoil and limestone
- **1.4.3.** Shall be capable of withstanding high temperatures, i.e. hot asphalt
- **1.4.4.** All external flange bearing units and conveyor shaft ends shall be covered by a removable shield
- **1.4.5.** Replaceable rubber flashing strips at each end chute exit
- **1.4.6.** Replaceable apron rubber skirt
- **1.4.7.** Conveyor system shall accommodate up to a 10 inch lump size of material

Comply: ____Yes ____No

1.5. Hopper Skirts
- **1.5.1.** Hopper shall have adjustable rubber skirts to contain material being dumped into hopper by dump truck
- **1.5.2.** Hopper rubber skirts are to be help in place by steel retaining strips which allow for replacement of skirts
- **1.5.3.** Hopper shall be integral with body of material placement attachment and supported under attachment by caster wheels with grease fittings

Comply: ____Yes ____No

1.6. Hydraulic System
- **1.6.1.** 3 gallons of hydraulic fluid compatible with the hydraulic system of the host equipment
- **1.6.2.** Standard hydraulic flow rate 17.5-24.2 gallons per minute (GPM) from the host equipment.
- **1.6.3.** The material placement attachment conveyor system shall be operated by a hydraulic motor integral to the attachment.

Comply: ____Yes ____No

1.7. Push Roller System
- **1.7.1.** Push roller system designed to push the truck from the rear tires with material as it is dumped into the hopper.
- **1.7.2.** Working height: 21”
- **1.7.3.** Adjustable length: 12” maximum reach
- **1.7.4.** Push Roller extensions with a maximum length of 12” shall be included to extend Push Rollers to a maximum working length of 24”
- **1.7.5.** The material placement attachment shall include a pintle hitch push plate that can be mounted to the body of the unit
  - **1.7.5.1.** This plate is to serve in place of the push rollers to push the truck with the material

Comply: ____Yes ____No

EQUIPMENT SPECIFICATIONS

1.8. Remote Control System
- **1.8.1.** Operates by a wireless remote control system to control all functions of the attachment
- **1.8.2.** The wireless remote control system receiver shall be mounted on the body of the attachment
- **1.8.3.** 12 volt 10 amp DC circuit
- **1.8.4.** The remote control hand held unit shall control all functions of the attachment

Comply: ____Yes ____No

1.9. Side Discharge Shoe
- **1.9.1.** Left and right discharge chutes shall have a hydraulically operated extendable shoe range of 12” - 48”.
- **1.9.2.** Left and right shoe shall be capable of fixed or floating shouldering angle controlled by the hand held remote controller
- **1.9.3.** The shoe on each side shall have a replaceable wear strip at the point of contact with the surface
- **1.9.4.** A solid red LED light shall indicate which side is activated for discharge; flashing red Led shall indicate when shoe is in float mode

Comply: ____Yes ____No

1.10. Paint
- **1.10.1.** The unit is to be prepared for painting as per the paint manufacturer’s directions
- **1.10.2.** Manufacturer’s standard color

Comply: ____Yes ____No

BIDDER'S EXCEPTIONS

Instructions: Bidder shall note all exceptions in space provided below. List the detail number from the aforementioned specification in the column to the left and the exception in the column to the right. Responses may be typed or hand-written. Handwritten responses must be legible. If additional space is needed, please print a duplicate copy of this sheet. "Bidder's Exceptions" page(s) shallbe returned with the bid submittal.

Examples:

1.6	Engine has 325 horsepower
1.18.3	Batteries have 2000 CCA combined.
2.2.8	Crossmembers are 4" channel on 12" centers.

Spec./Detail Reference	**Exception**