

Miscellaneous

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Material Specifications

K 1.1

Detector Check Valve – 4” through 10”

AKA

General:

Check valve conforming to ANSI/AWWA C508 and the latest revisions thereto.

Material:

Hot dipped galvanized or epoxy coated

Design:

Tapped and plugged to be used as a detector check, less meter.

Connections:

Flange x Flange

Special Features:

Gaskets, bolts, and nuts shall be included for both flanges.



Size/Details	OUC Item ID	Manufacturer	Catalog Number
4”	Non-stock	Ames	6” DCV – Galv. A 113-226
6”	062-01006		6” DCV – Epoxy A 113-216
8”	062-01008		8” DCV – Galv. A 113-226
10”	062-01010		8” DCV – Epoxy A 113-216
			10” DCV – Galv. A 113-226
			10” DCV – Epoxy A 113-216
		Febco	Model 800 DC Galv. or Epoxy Coating
		Hersey Mueller	Model EDC III A-2133-6 (Galvanized) A-2133-6-0032 (Epoxy)
		Viking	6” Part No. 03155A 8” Part No. 03160A 10” Part No. 02734A (E-2 Galv. or F-2 Epoxy)

Revision Date: 4/20/00 (RNK)
1/13/99 (DSW)



Material Specifications
Water Business Unit
**ORLANDO UTILITIES
COMMISSION**

Material Specifications

K 2.1

Sodium Hypochlorite 10%

AKA Chlorine, Bleach, NaOCL

Standards:

Liquid chemical solution must conform to AWWA Standards for Hypochlorites, ANSI/AWWA B300-92, the Water Chemicals Codex, 1982, and the latest revisions thereto. The vendor is expected to be knowledgeable of these and any other applicable standards.

Type and Grade:

Sodium hypochlorite – shall contain no less than 100g/L available chlorine (10 trade percent).

Delivery:

Chemical shall be delivered at 3812 Gardenia Ave., Orlando, FL 32809 in a suitably lined, thoroughly clean bulk tank truck. Deliveries will be made between 8:00 a.m. and 2:00 p.m., Monday through Friday **only**. Trucks arriving after 2:00 p.m. will not be allowed to unload. Water Distribution Division, (407) 244-8788, must be advised at least one hour prior to delivery of the estimated time of arrival and the chemical being delivered. Any cost or liability occurring as a result of improper notification shall be the responsibility of the vendor.

Affidavit of Compliance:

A signed statement that the chemical delivered is in compliance with this specification and AWWA B300-92 shall be submitted for each shipment of chemical. The statement shall include name and address of the manufacturer, date, place, and quantity of delivery and the amount invoiced. Shipments found not to be in conformance with this specification and AWWA B300-92 shall be replaced at no cost to OUC.

Size/Details	OUC Item ID	Manufacturer	Catalog Number

Revision Date:



Material Specifications
Water Business Unit
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Material Specifications

K 3.1

Pallet – Wooden

AKA

General:

Pallets shall meet the minimum manufactured standards of the National Wooden Pallet and Container Association (NWPCA), Washington, D.C. The manufacturer is to stencil wood species, manufacturer's name and date of manufacture on outside of one stringer, in letters no less than 1" high.

Material:

Lumber shall be Industrial (IND) Grade, Class B (Medium Density) Hardwood or better (Class C – Dense Hardwood). Stringers and deckboards shall be smooth sawn or surfaced to square edge, uniform dimensions subject to Standard tolerances. Nominal and surfaced dimensions shall be as follows:

	<u>Nominal</u>	<u>Surfaced (Min.)</u>
Deckboards	1" x 4"	13/16" x 35/8"
Stringers	2" x 4"	15/8" x 35/8"

Helically threaded nails shall be used with a nail length of 2.5 inch, wire diameter .120 inch, head diameter .281 inch, thread diameter .137 inch, minimum 4 flutes, thread angle 60-68°, hardened steel only. Fasteners per deckboard as per Standard, staggered pattern with heads flush and no protruding points.

Design:

Pallet style to be 2-way entry type, 4' double face, single wing, non-reversible, wooden pallet. Design allows 2-way entry by forklift and 2-way entry by straddle truck using single wing.

- A. All deckboards to be nominal 1 x 4 inches. Ten (10) top deckboards required, 40" length, spaced evenly, with end deckboards flush with stringer end. Six (6) bottom deckboards required, 32" length, flush with stringer.
- B. Stringers to be nominal 2 x 4 inches with 48" length. Three (3) stringers required, one centered and the outside two stringers to be 32" (outside dimension) providing 4" clear wing each side. **DO NOT NOTCH STRINGERS.**

Chamfers are not required. Pallets must be square with diagonal difference .72 inch or less.

No Illustration Available

Revision Date: 1/15/99 (DSW)



Material Specifications
Water Business Unit
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Material Specifications

K 4.1

Hand Water Pump – 36”

AKA

Material:

High impact PVC, non-sparking, lightweight.

Design:

A general purpose pump for use in water transfer, needs no priming. 1 1/4” outlet hose, removable foot, self priming. For non-potable water only.

Special Features:

36” length, 1 3/4” diameter, 36” x 1 1/4” discharge hose.



Size/Details

OUC Item ID

Manufacturer

Catalog Number

36” length x
1 3/4” diameter

098-09646

Beckson Utility Pump

136PF

Revision Date: 8/25/00 (RNK)



Material Specifications
Water Business Unit
ORLANDO UTILITIES
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Material Specifications

K 5.0

Hydro Guard Automatic Flushing Device

AKA

Material: The Hydro-Guard HG-1 features an atmospheric discharge with an air-gap to prevent backflow.

Design: Constructed of non-corrosive weather-resistant materials, weighing approximately 70 lbs. Contains 1 – control modules, 10 event battery operated programmer, 9 volt battery and built in sample port. 2-inch nylon glass reinforced solenoid operated valve, sample connection and external splash plate.



Size/Details

OUC Item ID

Manufacturer

Catalog Number

2"

Hydro Guard

HG - 1

Revision Date: 5/01/08 (RNK)

OUC 
The *Reliable One*®

Material Specifications
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Patch Paving and Concrete Work

Specification/Consideration To Bid

Contractors wishing to bid on the Patch Paving and Concrete Work contract must conduct Orlando Utilities Commission business out of a local Central Florida office with a local phone number. Contractors must provide proof of acceptable insurance coverage and maintain that coverage for the duration of the contract. Orlando Utilities Commission must be provided with copies of current City of Orlando and Orange County Occupational Licenses and a valid General Contractors license. Contractors must agree to and comply with all conditions outlined in the Orlando Utilities Commission General Conditions for Contracts.

General

All road sub-base, soil cement, limerock base, asphaltic concrete surface, portland cement concrete pavement and driveway, sidewalk and concrete curb restoration must be accomplished in accordance with the best commonly acceptable practices AND the appropriate City, County, and/or State road construction requirements. All methods, procedures and equipment shall be safe and adequate for job completion. "Standard" restoration (roadway, sidewalk and driveway repairs or replacement, sodding, etc.) within the State or County rights of way must be accomplished in 30 days or less from notification. "Emergency" restoration must be done within 10 calendar days. Failure to comply with these limitations will be grounds for immediate contract termination. The contractor shall be responsible for all labor, materials, equipment and incidentals necessary to accomplish the patch paving and concrete restoration. The contractor shall also be responsible for scheduling and procurement of the necessary proctor and soil density tests as well as the replacement of necessary applicable highway markings as required. Proctor and soil density tests that are the result of contractor compaction error are the sole responsibility of the contractor.

Regulation

The contractor must comply with all laws, ordinances, rules, regulations, standards and specifications applicable to the City of Orlando, Orange County, the State of Florida, and the federal government during the execution of work for Orlando Utilities Commission. All traffic control functions, including signs, flagmen and safety devices shall be the responsibility of the contractor and shall comply with DOT's "Manual on Traffic Control and Safety". All stop bars, crosswalks, skip lines, directional arrows, messages, reflective markers, etc. shall conform to the State of Florida DOT "Roadway and Traffic Design Standards".

Revision Date: 1/15/99 (DSW)



Consideration to Bid
Water Business Unit
ORLANDO UTILITIES
COMMISSION

Patch Paving and Concrete Work

Inspection/Completion

Material quality and project workmanship will be to the satisfaction of Orlando Utilities Commission, as determined by the OUC Inspector or designated representative. Private property shall be restored to both OUC's and the customer's satisfaction. Orlando Utilities Commission will obtain appropriate permits. The contractor shall be responsible for contacting the proper authorities when work is to be scheduled and/or inspected. The OUC Water Business Unit will provide the contractor with a copy of the Field Work Area Information Sheet. No payment shall be made until approval and applicable permit signatures by the appropriate governmental agencies (city, county, state, etc.), as well as the submitted quantities and measurements, are verified by Orlando Utilities Commission personnel. There shall be no billing until job completion, including site cleanup. Density test results shall be provided to OUC at the time of billing.

Conditions

This bid is not for an exclusive contract. The Orlando Utilities Commission reserves the right to separately bid other paving projects as needed. The Orlando Utilities Commission reserves the right to decide for itself, which is the lowest and most responsive and responsible bid. Orlando Utilities also reserves the right to add or decrease the estimated annual usage quantities without any change in quoted unit prices.

Revision Date: 1/15/99 (DSW)



Consideration to Bid
Water Business Unit
**ORLANDO UTILITIES
COMMISSION**

Soil Proctor and Density Tests

Specification/Consideration To Bid

Contractors wishing to bid on the Soil Proctor and Density Tests contract shall conduct Orlando Utilities Commission business out of a local Central Florida office with a local phone number and personal assistance immediately available during normal Orlando Utilities' working hours. Contractors shall provide proof of acceptable insurance coverage and maintain that coverage for the duration of the contract. Orlando Utilities Commission shall be provided with copies of current City of Orlando and Orange County Occupational Licenses and a valid General Contractors license. Contractors shall agree to and comply with all conditions outlined in the Orlando Utilities Commission General Conditions for Contracts.

General

All proctor moisture-density tests and field density tests shall be accomplished with the best commonly acceptable practices. Fieldwork for all routine proctor and density tests shall be accomplished within one (1) normal working day of notification. Failure to appear within 30 minutes of a pre-scheduled appointment for proctor and/or density tests shall result in back-billing charges to the contractor at a rate equal to stand-by time. Orlando Utilities Commission shall be notified within 48 hours, by fax of any test results failing to meet the minimum stated compaction requirements. All methods, procedures, and equipment shall be safe and adequate for job completion. The contractor shall be responsible for all labor, materials, equipment, and incidentals necessary to accomplish the proctor and density tests.

Emergency Call Out

The contractor shall provide Orlando Utilities Commission with after-hour telephone and pager beeper numbers to be used in the event of an emergency. Fieldwork for all proctor and density tests required due to emergency water main breaks shall be accomplished within two (2) hours of notification. For billing purposes only, any work that must be accomplished between the hours of 6:00 p.m. and 6:00 a.m. or on weekends or holidays shall also be considered emergency call out.

Regulation

The contractor must comply with all laws, ordinances, rules, regulations, standards and specifications applicable to the City of Orlando, Orange County, the State of Florida, and the federal government during the execution of work for Orlando Utilities Commission.

Revision Date: 1/15/99 (DSW)



Consideration to Bid
Water Business Unit
ORLANDO UTILITIES
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Soil Proctor and Density Tests

Responsibility

The contractor agrees to indemnify and save harmless, Orlando Utilities Commission and/or its employees from and against all loss or expense (including costs and attorney's fees) by reason of any liability imposed upon Orlando Utilities Commission and/or its employees for damages because of bodily injury, including death at any time resulting from bodily injury, sustained by any person or persons or on account of damage to property, including the loss of use of that property, arising out of or in consequence of the performance of the proctor and/or density tests, whether such injuries or damages are due to or claimed to be due to the negligence of the contractor, his subcontractor, Orlando Utilities Commission or its employees, except for those injuries or damages caused by the sole negligence of the Orlando Utilities Commission and/or its employees.

Completion/Billing

Orlando Utilities Commission shall make payment only for those line items listed on the approved purchase order. Stand-by time shall be any time in excess of 30 minutes during which the technician must wait to conduct tests due to delays by Orlando Utilities Commission personnel. Orlando Utilities Commission will not honor overtime or travel time charges for any reason. Proctor and density test results shall be provided to Orlando Utilities Commission at the time of billing. Billing will not be accepted without the proctor and density results for that billing. All billing shall be accomplished on a monthly basis. Invoices shall include the location, name of originator, arrival and departure times, and the number of tests conducted.

Conditions

The Orlando Utilities Commission reserves the right to decide for itself which is the lowest and most responsive and responsible bid. Orlando Utilities also reserves the right to add or decrease the estimated annual usage quantities without any change in quoted unit prices.

Revision Date: 1/15/99 (DSW)



Consideration to Bid
Water Business Unit
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