This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by the following method in Microsoft Word:

 Display the FILE tab on the ribbon, click OPTIONS, then DISPLAY. Select of deselect HIDDEN TEXT.

This guide specification section has been prepared by World Dryer Corporation for use in the preparation of a project specification section covering eXtremeAir EXT automatic, high speed hand dryers.

The following should be noted in using this specification:

Hypertext links to manufacturer websites are included after manufacturer names to assist in product selection and further research. Hypertext links are contained in blue, e.g.:

 [www.astm.com](http://www.astm.com)

Optional text requiring a selection by the user is enclosed within brackets and as red text, e.g.: “Color: [Red.] [Black.]"

Items requiring user input are enclosed within brackets and as red text, e.g.: "Section [\_\_ \_\_ \_\_ - \_\_\_\_\_\_\_\_]."

Optional paragraphs are separated by an "OR" statement included as red text, e.g.:

\*\*\*\* OR \*\*\*\*

For assistance in the use of products in this section, contact World Dryer Corporation by calling 800-323-0701, by email at info@worlddryer.com, or visit their website at [www.worlddryer.com](http://www.worlddryer.com).

**SECTION 10 28 14 - ELECTRIC HAND DRYERS**

1. **GENERAL**
	1. SUMMARY
		1. Section Includes: Electric hand dryers.

Edit the following to coordinate with other sections in the Project Manual.

* + 1. Related Sections:
			1. Section [06 10 00 - Rough Carpentry] [\_\_ \_\_ \_\_ - \_\_\_\_\_\_]: Blocking in stud partitions for mounting hand dryers.
			2. Section [\_\_ \_\_ \_\_ - \_\_\_\_\_\_]: Electrical supply, conduit, wiring, boxes, and wiring devices for hand dryers.
	1. SUBMITTALS
		1. Action Submittals:
			1. Shop Drawings: Show dimensions, method of attachment, and required supports.
			2. Product Data: Manufacturer's data sheets on each product to be used, including:
				1. Preparation instructions and recommendations.
				2. Operation instructions and performance.
				3. Storage and handling requirements and recommendations.
				4. Installation methods.
		2. Closeout Submittals:
			1. Operation and Maintenance Data.
	2. QUALITY ASSURANCE
		1. Hand Dryers: Certified to Underwriters Laboratory (UL), Inc. and Canadian Standards Association (CSA); bear UL or ETL markings.
	3. WARRANTIES
		1. Provide manufacturer’s 5 year limited warranty.
1. **PRODUCTS**
	1. MANUFACTURERS
		1. Contract Documents are based on products by World Dryer Corporation, 800-323-0701, [www.worlddryer.com.](http://www.worlddryer.com)
		2. Substitutions: [Refer to Division 01.] [Not permitted.]
	2. MANUFACTURED UNITS
		1. Hand Dryers:
			1. Type: Automatic, high speed.
			2. Source: eXtremeAir EXT ECO by World Dryer Corporation.

Surface mounted dryers with wall guards and recessed dryers are ADA compliant.

* + - 1. Mounting: [Surface mounted.] [Surface mounted with 17 gage Type 304 stainless steel wall guard, brushed finish.] [Recessed.]
			2. Electrical rating: 500 watts, universal voltage, 110-120/208/220 – 240 VAC, 60 Hz.
			3. Motor: Universal type, through-flow discharge vacuum with automatic resetting thermostat; 5/8 HP, 24,000 RPM.
			4. Air Flow: 68 CFM at 216 MPH (19,000 LFM); 36 CFM at 114 MPH (10,000 LFM).
			5. Adjustable speed: 12 seconds.
			6. Adjustable sound level: 67 dBA at 79 in. (2 m).
			7. Electronic controls:
				1. Automatic infrared optical sensor; operates while hands are under blower.
				2. Shut-off within 3 seconds when hands removed or in 35 seconds if hands are not removed.
				3. Variable speed control customizable for air performance/dry time, energy efficiency, sound level, and user comfort.
			8. Air temperature: 85 degrees F at ambient temperature of 72 degrees F.
			9. Cover material: Flame retardant ABS plastic, white.

\*\*\*\* OR \*\*\*\*

* + - 1. Cover material: One piece, vandal resistant, stainless steel, brushed finish.

\*\*\*\* OR \*\*\*\*

* + - 1. Cover material: One piece, vandal resistant, steel, [white] [black] epoxy finish.
1. **EXECUTION**
	1. INSTALLATION
		1. Install in accordance with manufacturer's instructions and approved Shop Drawings.

Accessible layout for persons with physical disabilities must ensure a minimum clear floor space of 30 x 48 inches (762 x 1219 mm) in front of or parallel to hand dryers. Hand dryer may project into this clear space if there is a 29 inch (737 mm) minimum knee and toe space beneath the hand dryer. It is recommended to install at least one hand dryer for persons with physical disabilities in multiple hand dryer installations.

Depending on placement of hand dryers in facilities accessible to persons with physical disabilities, maximum projection from wall may be restricted to 4 inches (102 mm). Some dryers are available with recess mounting kits.

* + 1. Mount dryers at heights [indicated on Drawings.] [indicated on manufacturer’s mounting templates.]

Retain the following if recess mounting kits are required.

* + 1. Install dryers with recess mounting kits with maximum 4 inch (102 mm) maximum projection from wall surface, in compliance with [applicable accessibility code.] [ANSI A117.1.]

Retain the following for surface mounted dryers with wall guards.

* + 1. Install wall guards directly below dryers with bottom edge of guard less than 27 inches above floor level in compliance with [applicable accessibility code.] [ANSI A117.1.]
	1. CLEANING AND TESTING
		1. Remove protective packaging.
		2. Clean surfaces with mild soap solution. Do not use abrasives.
		3. Inspect installed dryers to verify mounting is rigid and electrical connections are proper.
		4. Test each dryer to verify operation and performance.
	2. PROTECTION
		1. Protect dryers from construction activities until just prior to Substantial Completion.
	3. DEMONSTRATION
		1. Demonstrate operation and maintenance of dryers to Owner.

END OF SECTION