



Application for Plan Review

Application # EMFW.1905-0006

Date Received: 5/13/19 Received By: [Signature]

Name of Project: Rhino Shelf Powder Coating Operation Installation

Physical Address of Project: 475 S. Raleigh St.

Angier, NC 27501

Plans Submitted By: Innovative Design Technologies, LLC

Project Phone: (919)-331-0204

Contact Person/Address: Don Hunter

Po Box 2296, 475 S. Raleigh St.

Angier, NC 27501

Contact Email: DHunter@idtlc.net

Contact Phone: (919)-331-0204 (919)-291-1204

Contractor's Name/Info: None

Contractor's Phone: (N/A)- _____ - _____

- Plans that are submitted will be reviewed as quickly as possible with an average time of review between 7-10 working days.
- Status checks may be conducted on plan reviews by visiting the website <http://hteweb.harnett.org/Click2GovBP/Index.jsp> or by calling the Harnett County Central Permitting Office (910-893-7525, Option #2), or the Harnett County Fire Marshal's Office (910-893-7580).
- Approved plans must be picked up from the Central Permitting Office and all fees paid before any required inspections can be conducted.

PROJECT SUMMARY SHEET
AND ATTACHMENTS LIST

Name of Project: Rhino Shelf Powder Coating Operation Installation

Summary:

Innovative Design Technologies, LLC, proposes to install and operate a Powder Coating Operation, including assembling and installing a commercially purchased and listed Powder Coating Application Spray Booth (Addition 1) with Automatic Dry-Chemical Fire Suppression System (Deconflagration) and a commercially purchased and listed Powder Coating Cure Oven (Class B Oven)(Addition 2) in its leased facility at 475 S. Raleigh St., Angier, NC 27501, in accordance with the 2018 North Carolina State Building Code: Fire Prevention Code.

Total construction modifications to the existing structure will be 1) cutting and finishing a hole through an exterior shop wall for the Powder Coating Spray booth ventilation/deconflagration duct, 2) cutting and finishing a hole through the roof for the double-wall 8" exhaust pipe for the Powder Coating Cure Oven, and 3) framing and finishing of a section of wall for the new Personnel Fire Exit Door, all to be completed per accepted construction practices.

The the required Land Use Permit (attached) has been obtained from the Town of Angier for adding equipment to existing commercial building.

Shop Drawings for location of the Powder Spray Booth and the Powder Coating Cure Oven are attached, along with a Drawing of the areas affected by this work.

Schematics of the Powder Spray Booth, and the Cure Oven, along with extracts from the Manufacturer's Installation Manuals and the Cut Sheet for wiring of the Powder Coating Cure Oven are attached. Also included are Installation Requirements (Punch Lists) for completion of the two installations, keyed to the new North Carolina Fire Code.

Design of the Fire Suppression System for the Powder Coating Spray Booth will be accomplished by the Licensed Contractor installing the system once the Spray Booth is otherwise in place and assembled, and that Contractor will provide all necessary documentation for that system, including interlock wiring for the ventilation, as part of his separate permitting process with your office. It is necessary to phase this application since this system cannot be exactly designed prior to assembly of the Spray Booth. The Spray Booth will not be used in any way prior to completion of this permitting process and all requirements of any conditional permit are met.

General Information:

Construction of the leased premises is concrete block foundation with packed earth fill and an 8-inch, 5,000 psi poured and reinforced concrete floor. Walls and roof are standard wooden construction with exterior siding and interior plywood wall finishing for the walls and shingled roof. Roof system construction is open attic wooden ceiling beams with plywood covered wooden rafters.

Previously existing Occupancies are B, F-2 and S-2 and these will remain unchanged. It is believed that the proposed additions will not affect these occupancies since the only Dust-Producing Operation will be inside the Powder Coating Spray Booth which is designed as a Control Area. The powder coating powder is non-flammable and otherwise non-combustible. No dust is produced except within this Spray Booth and contained by the ventilation system and captured by the filters (powder recovery). Powder Coating Spray Application Operations will utilize a completely operator controlled, manual, non-

automated process.

The Powder Coating Booth can only be used for powder coating powder application as configured and wired; and cannot not be utilized as a paint spray booth without modification and rewiring. We have no processes that require painting of any of our products nor do we have paint spraying equipment in our facility.

Occupancy load for B Occupancy area is 6 people, and for the combined, undivided F-2 and S-2 Occupancy areas is 17.

Attachments:

- Town of Angier Land Use Permit
- Shop Drawing – Additions # 1 & 2 Locations
- Shop Drawing – Project Work Areas & Occupancies
- Schematic Powder Coating Booth
- Powder Booth Installation Manual Extract
- Schematic Powder Coating Cure Oven
- Powder Coating Cure Oven Installation Manual Extract
- Powder Coating Cure Oven Electrical Cut Sheet – Oven Control Box
- Powder Coating Cure Oven Electrical Cut Sheet – AC Drive Box
- Punch List A – Fire Code Requirement for Addition 1 – Powder Coating Booth Installation
- Punch List B – Fire Code Requirements for Addition 2 – Powder Coating Cure Oven Installation

To be provided later as part of separate Powder Coating Booth Fire Suppression System Permitting (by Certified Contractor):

- Permit Application
- Schematic of Fire Suppression System
- Cut Sheet for Electrical Wiring of Interlocked System



TOWN OF ANGIER
LAND USE PERMIT

55 NORTH BROAD ST WEST ANGIER, NC 27501-0278

Phone: 919-331-6702 FAX: 919-639-6130

DATE ISSUED: 04/29/2019

PERMIT #: 2019-000111

LOCATION

475 SOUTH RALEIGH STREET

OWNER:

INNOVATIVE DESIGN TECHNOLOGIES, LLC

CONTRACTOR:

DISTRICT

CP

TAX MAP PARCEL#

0673-77-6259.000

LOT

ZONING DISTRICT

CP

TOTAL VALUATION

\$ 0

SUBCONTRACTOR ID/NAME

SUBCONTRACTOR TYPE

TYPE CONSTRUCTION: LAND USE

OCCUPANCY GROUP: COMMERCIAL

FEE CODE

LAND USE COMMERCIAL

FEE

35.00

TOTAL PAID:

35.00

PAID IN FULL

TOTAL AMOUNT:

35.00

REMARKS:

LAND USE PERMIT FOR ADDING EQUIPMENT TO EXISTING COMMERCIAL BUILDING

(SIGNATURE OF CONTRACTOR/OWNER)

(DATE)

Ben John

4/29/19

(ISSUED BY)

(DATE)