1.0 PRE-ENGINEERED CANOPY-CANTILEVERED

A. Structural components

1. Columns
    a. Structural steel tubing shall be used
    b. ASTM A500 Grade B with a minimum yield stress of 46,000 psi.
    c. Sized to meet or exceed specific project design load requirements
    d. Base plates will be ASTM A36 structural steel plate with a minimum yield stress of 36,000psi, ¾" thick with two 3/8" thick continuously welded gussets per column side. Drainage collectors are sized a minimum of 4 ¼" deep and using 10ga. Steel
    e. Top plates: ASTM A36 structural steel plate with a minimum yield stress of 36,000psi. They will be shop fabricated with pre-punched or pre-drilled bolt holes. No field drilling is allowed
    f. Provide each with electrical access openings, cover plates, and one (1") electrical conduit with coupling welded into the column.
2. Structural framing
    a. Wide flange beans will be used
    b. ASTM A36 structural steel with a minimum stress of 36,000 psi
    c. Structural beams will be provided for full perimeter of canopy & mounted flush against the fascia
    d. Structural steel shall be designed to provide a positive slope not to exceed 3" per overhang.
3. Anchor bolts
    a. 1 ¼" diameter 30" long structural rod with a minimum 4" hook
    b. ASTM A36 structural steel with a minimum yield stress of 36,000 psi.
    c. Minimum projection above footing shall be 5 ½" finished threads.
    d. Double nuts and washers for each bolt shall be provided; one set to be used as levelers.
    e. Templates for setting anchor bolts shall be factory furnished a minimum 5/8" thick and shall be removed before setting column on foundation.
    f. Anchor bolts shall be threaded and protected by grease at the time of installation.
4. Cleaning and painting:
    a. All framing members are cleaned to remove loose mill scale and other foreign matter. Cleaning process will meet or exceed Steel Structures Painting Council Specifications SSPC-3 for powered hand tool cleaning. After cleaning, all framing members will be given one shop coat of air drying red oxide primer. The primer coat thickness shall be a minimum of one mil. The canopy erector will provide a final coat of 15-year black fluropolymer paint.

B. Deck panels

1. 20 gauge, 12" wide, 1 ¾" steel panels. At the direction of the owner's representative bronze decking will be provided.
2. ASTM A446 with a minimum yield stress of 50,000-psi having a G90 galvanized surface both sides meeting ASTM A525.
3. Panels are fastened to the wide flange purlin beams with the Paterson pre-punched clip system that requires no "thru the panel" fasteners.
4. Panels are joined by a proven drive cleat that provides continuous lateral stability of the panel ribs.
5. No splicing of deck panels will be allowed.
6. Panels shall have a finish side coated with a full coat of polyester paint baked on over an epoxy primer. Reverse side shall be protected by a white wash coat baked on over an epoxy primer.

C. Fascia

1. Laminated Panels 36" high:

a. 20 gauge steel sheet panformed

b. G90 hot dipped galvanized, tension leveled and extra smooth on exterior face of panel.

c. Factory pre-assembled, self-flashing.

d. No exposed fasteners on bottom or exterior face.

e. Panel core material: 2" thick virgin expanded polystyrene with nominal 1.0 to 1.5 PCF density.

f. Panels shall have a finish side coated with a full coat of polyester paint baked on over and epoxy primer.

2. Aluminum Composite Panels

a. Substrate should be 3mm thick pre-finished aluminum composite material.

b. Fascia panels shall be panformed and nominally equal in lengths per side.

c. 90 degree corner sections shall be one piece with equal returns on 1'-6" Min. to 5'-0" max.

d. Factory pre-assembled, self-flashing.

e. All fasteners shall be type 410 stainless steel.

f. No exposed fasteners on bottom or exterior face.

g. Fascia system shall be protected throughout fabrication, transportation and erection with factory applied strippable film.

h. Finish color factory-applied.

i. Vertical seams to be sealed from backside with aluminum angle closure attached by screws

3. Fascia Attachments:

a. All components shall be galvanized steel or aluminum.

b. All fascia will be mounted to perimeter steel

D. Accessories

1. Gutters shall have a finish side coated with a full coat of polyester paint baked on over an epoxy primer. Interior surface shall be protected by a white wash coat baked on over an epoxy primer. No trim caps top or bottom will be allowed.

2. Downspouts will be sized 3 ¼" x 14 gauge.

3. Hardware for gutter-to-deck panel fasteners shall be No. 12 x ¾" long, self-drilling, carbon steel, cadmium plated screws with an integral hex head and neoprene sealing washer.

4. Sealents will be factory supplied and approved.

5. Lighting will be supplied by canopy manufacturer, flush mounted, 400 watt, multi tapped, waterproof, stainless steel fixtures as directed by the canopy manufacturer.

6. Photo cells controlling 2 fixtures on each canopy will be furnished and installed.

9. Signage for each facility including name, entrance and exit will be provided and mounted on the fascia. At the owner's request Fiber Optics will be used for Facility Name

10. Universal Sign Boards will be provided on each column and include all safety information

11. A dry chemical fire supression system (PEMALL, Cranbury NJ) will be installed by a NYC liscensed contractor. The system will be designed to cover the single pump fueling area and 12' beyond in all directions.

E. GENERAL NOTES:

1. All materials are new and without defects, which would lessen quality of work.

2. All materials will conform to the requirements, tolerances, etc. of the latest editions of the AISC Manual of Steel Construction, AISI Specifications for the Design of Cold Formed Steel Members, ASTM Standard Specifications for General Requirements for rolled steel plates, shapes, sheets, and bars for structural use, and AWS for welded connections.

3. Canopy erection drawings are furnished at time of shipment. Piece marks are included to facilitate easy field identification of all major parts.
4. Anchor bolt setting plans will include a recommended footing size. All changes in grade will be addressed by footing burial depth. All canopy columns will be the same length.
5. Upon request, design calculations or a letter of design certification, sealed by a registered professional engineer licensed in the state in which the job site is located, shall be provided.
6. All A325 bolts shall be tightened by the turn-of-nut method.
7. The manufacturer's representative will be present for footing inspection, canopy unloading, torque test and final inspection.
8. If other than Fashion Canopy is to be furnished sealed drawings must be submitted at the time of bid. Review cost will be the responsibility all contractors submitting alternatives. Basis of design Fashion Inc (201-462-0404) or approved equal

F. SITE SPECIFIC:

Canopy Length 20' Canopy Width 20' Canopy Height 14'6" above finished grade

Number of Columns 2 Decal Text none

Fascia Height 36" Fascia Color as directed by the owner Fire Suppression to be NYC Standards, Jan 00

END OF SECTION

Pre-engineered Canopy- **01/99**

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    e. Drainage collectors are sized a minimum of 4 ¼" deep and using 10ga. Steel
    f. Top plates: ASTM A36 structural steel plate with a minimum yield stress of 36,000psi. They will be shop fabricated with pre-punched or pre-drilled bolt holes. No field drilling is allowed
    g. Provide each with electrical access openings, cover plates, and one (1") electrical conduit with coupling welded into the column.
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    a. wide flange beans will be used
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3. anchor bolts
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    c. Minimum projection above footing shall be 5 ½" finished threads.
    d. Double nuts and washers for each bolt shall be provided; one set to be used as levelers.
    e. Templates for setting anchor bolts shall be factory furnished, a minimum 5/8" thick and shall be removed before setting column on foundation.
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4. cleaning and painting:
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4. Panels are joined by a proven drive cleat that provides continuous lateral stability of the panel ribs.
5. No splicing of deck panels will be allowed.
6. Panels shall have a finish side coated with a full coat of polyester paint baked on over an epoxy primer. Reverse side shall be protected by a white wash coat baked on over an epoxy primer.

C. Fascia

1. Laminated Panels 36" high:
    a. 24 gauge steel sheet panformed.
    b. G90 hot dipped galvanized, tension leveled and extra smooth on exterior face of panel.
    c. Factory preassembled, self-flashing.

d. No exposed fasteners on bottom or exterior face.
e. Panel core material: 2" thick virgin expanded polystyrene with nominal 1.0 to 1.5 PCF density.
f. Panels shall have a finish side coated with a full coat of polyester paint baked on over and epoxy primer.

2. Aluminum Composite Panels
   a. Substrate should be 3mm thick prefinished aluminum composite material.
   b. Fascia panels shall be panformed and nominally equal in lengths per side.
   c. 90 degree corner sections shall be one piece with equal returns on 1'-6" Min. to 5'-0" max.
   d. Factory preassembled, self-flashing.
   e. All fasteners shall be type 410 stainless steel.
   f. No exposed fasteners on bottom or exterior face.
   g. Fascia system shall be protected throughout fabrication, transportation and erection with factory applied strippable film.
   h. Finish color factory-applied.
   i. Vertical seams to be sealed from backside with aluminum angle closure attached by screws
3. Fascia Attachments:
   a. All components shall be galvanized steel or aluminum.

D. Accessories

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2. Downspouts will be sized 3 ¼" x 14 gauge.
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4. Sealents will be factory supplied and approved.

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1. All materials are new, of good quality, and without defects, which would lessen quality of work.
2. All materials will conform to the requirements, tolerances, etc. of the latest editions of the AISC Manual of Steel Construction, AISI Specifications for the Design of Cold Formed Steel Members, ASTM Standard Specifications for General Requirements for rolled steel plates, shapes, sheets, and bars for structural use, and AWS for welded connections.
3. Canopy erection drawings are furnished at time of shipment. Piece marks are included to facilitate easy field identification of all major parts.
4. Anchor bolt setting plans will include a recommended footing size.
5. Upon request, design calculations or a letter of design certification, sealed by a registered professional engineer licensed in the state in which the job site is located, shall be provided.
6. All A325 bolts shall be tightened by the turn-of-nut method.
7. Lighting will be supplied by canopy manufacturer, flush mounted, 320 watt, multi tapped fixtures as directed by the canopy manufacturer.
8. Photo cells controlling 2 fixtures on each canopy will be furnished and installed.
9. Fiber Optic Signage for each facility including name entrance and exit will be provided and mounted on the fascia.
10. Decals will include all required safety, entry and exit information
11. The manufacturer will be present for footing inspection, canopy unloading, torque test and final inspection.
12. If other than Fashion Canopy is to be furnished seal drawing must be submitted at the time of bid. Review cost will be the responsibility all contractors submitting alternatives. Basis of design Fashion Inc (201-531-0624) or approved equal

F. SITE SPECIFIC:

Canopy Length_____ Canopy Width_____ Canopy Height _____

Number of Columns_____ Number of Lights_____ Light Model_____

Fiber-optic Text_____ Decal Text_____ Fascia Height_____

Fascia Color_____