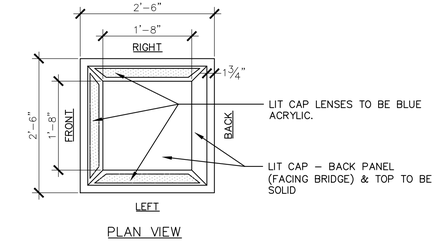
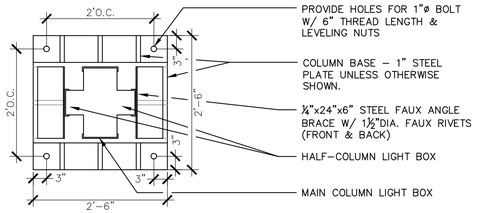
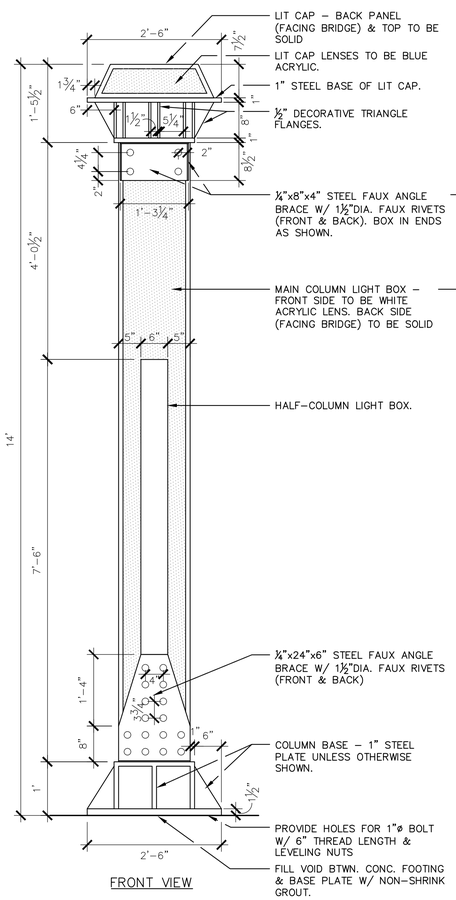


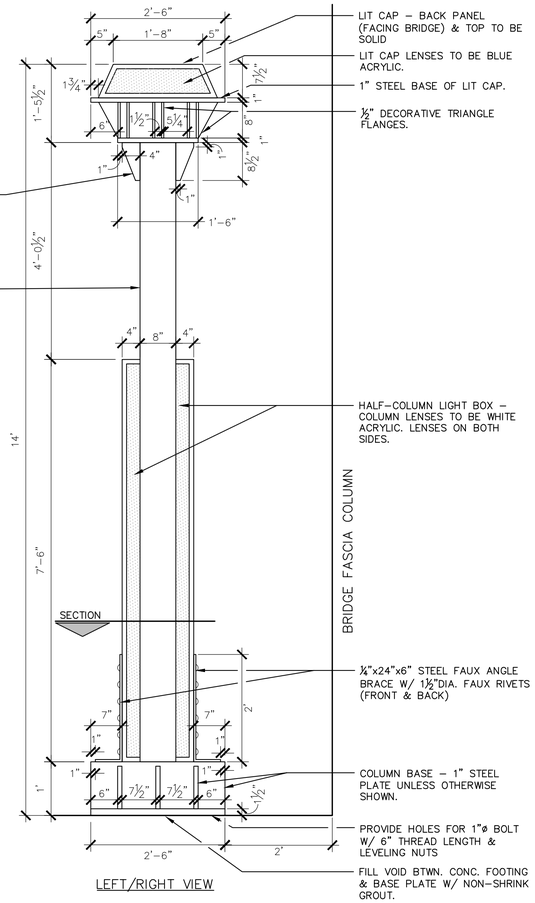
PLAN VIEW



SECTION



FRONT VIEW

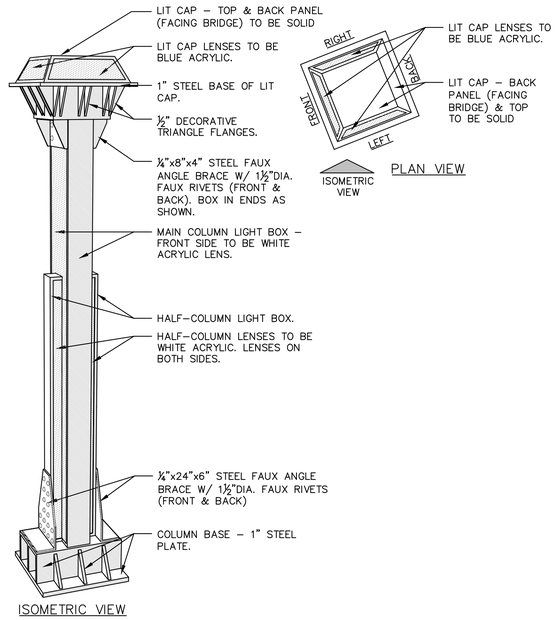


LEFT/RIGHT VIEW

1 LIGHT COLUMN - ELEVATION

• PROVIDE SHOP DRAWINGS FOR REVIEW – INCLUDE MATERIALS, DIMENSIONS, ATTACHMENT, & FINSHES.

3/4" = 1'-0"



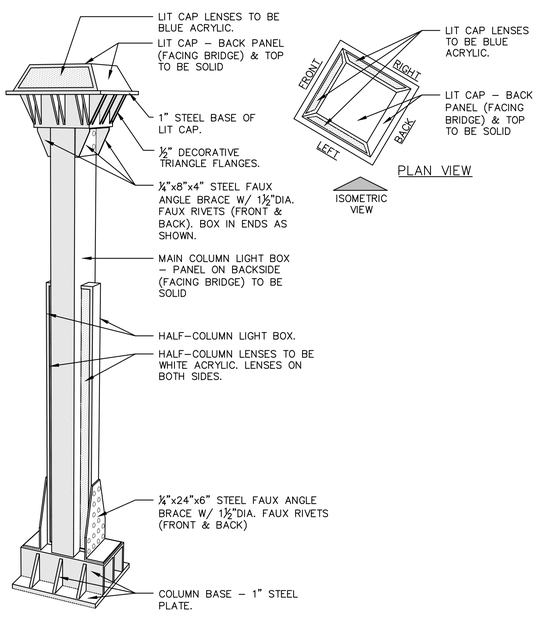
PLAN VIEW

ISOMETRIC VIEW

2 LIGHT COLUMN - ISOMETRIC I

• PROVIDE SHOP DRAWINGS FOR REVIEW – INCLUDE MATERIALS, DIMENSIONS, ATTACHMENT, & FINSHES.

1/2" = 1'-0"



PLAN VIEW

ISOMETRIC VIEW

3 LIGHT COLUMN - ISOMETRIC II

• PROVIDE SHOP DRAWINGS FOR REVIEW – INCLUDE MATERIALS, DIMENSIONS, ATTACHMENT, & FINSHES.

1/2" = 1'-0"

SECTION 02870 (12 93 13)

PRODUCT
11/2011

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Products - Manufactured by Landscape Forms Inc. or Architect Approved Equivalent
1. SF2658-001 - Light Column with Full Acrylic Body

1.2 REFERENCES
A. ASTM Testing Standards:
1. ASTM B 117 - Standard Practice for Operating Salt Spray (Fog) Apparatus.
2. ASTM D 522 - Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings.
3. ASTM D 523 - Standard Test Method for Specular Gloss.
4. ASTM D 2247 - Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity.
5. ASTM D 3359 - Standard Test Methods for Measuring Adhesion by Tape Test.
6. ASTM D 3363 - Standard Test Method for Film Hardness by Pencil Test.
7. ASTM G 155 - Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials.
B. ISO Testing Standards:
1. ISO 1520 - Paints and Varnishes - Cupping Test.
2. ISO 2815 - Paints and Varnishes - Buchholz Indentation Test.

1.3 SUBMITTALS
A. Product Data: Submit manufacturer's product data, storage and handling requirements and recommendations, installation methods and available colors, styles, patterns and textures.
B. Shop Drawings: Submit manufacturer's shop drawings, including plans and elevations, indicating overall dimensions.
C. Samples: Submit manufacturer's samples of materials, finishes, and colors.
D. Warranty: Manufacturer's standard warranty.

1.4 QUALITY ASSURANCE
A. Manufacturer's Qualifications: Manufacturer regularly engaged in manufacture of site furnishings.
1. Provide 5 similar reference projects with direct contact information.
B. Product Support: Products are supported with complete engineering drawings.
C. Insurance: Liability insurance coverage of two million dollars
D. Manufacturing Lead Time: Manufacturing lead time will be determined at time of order.
E. Facility Operator: Welders and machine operators are certified for all AWS & ASTM standards that apply.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
B. Storage: Store materials in clean, dry area in accordance with manufacturer's instructions. Keep materials in manufacturer's original, unopened containers and packaging until installation.
C. Handling: Protect materials and finish during handling and installation to prevent damage.
D. Process Tooling Storage: Store any and all tooling, fixtures, process plans & project files for minimum 10 years after last project phase is complete.

1.6 WARRANTY
A. Warranty Information:
-Products will be free from defects in material and/or workmanship for a period of three years from the date of invoice.
-The warranty does not apply to damage resulting from accident, alteration, misuse, tampering, negligence, or abuse.
-Product, at the option of manufacturer, repair, replace, or refund the purchase price of any items found defective upon inspection by an authorized service representative.
-Purchasers should be aware that normal use of these high quality products can result in superficial damage affecting the finish. Scratches, nicks, and dents are to be considered normal wear and tear, and are not the responsibility of the manufacturer.

PART 2 PRODUCTS

2.1 MANUFACTURER
A. Landscape Forms, Inc., 431 Lawndale Avenue, Kalamazoo, Michigan 49048. Toll Free (800) 521-2546. Phone (269) 381-0396. Fax (269) 381-3455. Website www.landscapeforms.com. E-mail specify@landscapeforms.com.

2.2 PRODUCTS
A. 17145 Underpass Columns

B. Style:
1. SF2658-001= Light Column with Full Acrylic Body
-Overall Height: 14' 1 5/8"
-Overall Width: 2'6"
-Length: 2'6 ¾"

C. Mounting:
1. SF2348-001 thru SF2348-003
-Surface mounted

2.3 MATERIAL
A. SF2658-001 Light Column with Full Acrylic Body
1. Frame: A36 Carbon Steel
2. Hardware: Stainless Steel
3. LED Lighting
a. Part Number- eQ-D3-TL-31-5.0-L-S-5'-O-11.5'
b. Manufacturer- Mean Well
c. Manufacturer part number -LPV-100-24

2.4 RECYCLED CONTENT
A. Product:
-Recycled Material Content: Minimum 65 percent.
-Post-Consumer Material Content: Minimum 50 percent.
-Pre-Consumer Material Content: Minimum 15 percent.
-Recyclable: 100 percent.

2.5 FABRICATION
A. Shop fabricated & assembled as much as possible trellis

2.6 FINISHES

A. Finish on Metal: Landscape Forms, Inc. "Pangard II" or Architect approved equivalent.
1. Primer: Rust inhibitor.
a. Clean all metal parts with a heated wash until all surface oils and grease are removed.
b. All bare metal parts to be treated in a zinc phosphate pre-treatment.
2. Topcoat: Thermosetting TGIC polyester powder coat. UV, chip, and flake resistant.
3. Test Results: "Pangard II".
a. Gloss Consistency, Gardner 60 Degrees, ASTM D 523: Plus or minus 5 percent from standard.
b. UV Resistance, Color and Gloss, ASTM G 155, Cycle 7: Delta E less than 2 at 2.0 mils and less than 20 percent loss.
c. Cross-Hatch Adhesion, ASTM D 3359, Method B: 100 percent pass.
d. Flexibility Test, Mandrel, ASTM D 522: 3 mm at 2 mils.
e. Erichsen Cupping, ISO 1520: 8 mm.
f. Impression Hardness, Buchholz, ISO 2815: 95.
g. Impact Test, ASTM D 2794: 60 inch-pounds at 2.5 mils.
h. Pencil Hardness, ASTM D 3363: 2H minimum.
i. Corrosion Resistance, 1,500-Hour Test, ASTM B 117: Max undercutting 1 mm.
j. Humidity Resistance, 1,500-Hour Test, ASTM D 2247: Max blisters 1 mm.
4. Color: Oxide Red - Architect to verify & confirm.

PART 3 EXECUTION

3.1 EXAMINATION
A. Examine areas to receive product.
B. Notify Architect of conditions that would adversely affect installation or subsequent use.
C. Do not begin installation until unacceptable conditions are corrected.

3.2 INSTALLATION
A. Install in accordance with manufacturer's instructions at locations indicated on the Drawings.
B. Install level.
C. Anchor securely in place.

3.3 ADJUSTING
A. Finish Damage: Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.
B. Component Damage: Remove and replace damaged components that cannot be successfully repaired as determined by Architect.

3.4 CLEANING
A. Clean products promptly after installation in accordance with manufacturer's instructions.
B. Do not use harsh cleaning materials or methods that could damage finish.

3.5 PROTECTION
A. Protect installed product to ensure that, except for normal weathering, racks will be without damage or deterioration at time of Substantial Completion.

PRINTS ISSUED

DATE	PURPOSE	NO.
09.13.17	FOR CONSTRUCTION	

DOUGLAS AVE.-BNSF
RAILROAD UNDERPASS
IMPROVEMENTS
WICHITA, KS

LK Architecture • Landscape Architecture
Architecture • Engineering • Planning • Interior Design • Landscape Architecture

LK Architecture Inc. ©
345 RIVERVIEW,WICHITA,KS 67203
Phone (316) 268-0230 Fax: (316) 268-0205
CONTACT: JEFFREY A. BEST, PLA

PROJECT NUMBER:
17145

SHEET TITLE:
LIGHT COLUMN DETAILS

SHEET NUMBER:
22