



Application for URBAN DESIGN COMMITTEE Review

Department of Planning and Development Review
Planning & Preservation Division
900 E. Broad Street, Room 510
Richmond, Virginia 23219
(804) 646-6335

<http://www.richmondgov.com/CommitteeUrbanDesign>

Application Type

- Addition/Alteration to Existing Structure
 New Construction
 Streetscape
 Site Amenity

- Encroachment
 Master Plan
 Sign
 Other

Review Type

- Conceptual
 Final

Project Name: _____

Project Address: _____

Brief Project Description (this is not a replacement for the required detailed narrative) : _____

Applicant Information

(on all applications other than encroachments, a City agency representative must be the applicant)

Name: _____ Email: _____

City Agency: _____ Phone: _____

Address: _____

Main Contact (if different from Applicant): _____

Company: _____ Phone: _____

Email: _____

Submittal Deadlines

All applications and support materials must be filed no later than 21 days prior to the scheduled meeting of the Urban Design Committee (UDC). Please see the schedule on page 3 as actual deadlines are adjusted due to City holidays. **Late or incomplete submissions will be deferred to the next meeting.**

Filing

Applications can be mailed or delivered to the attention of "Urban Design Committee" at the address listed at the top of this page. **It is important that the applicant discuss the proposal with appropriate City agencies, Zoning Administration staff, and area civic associations and residents prior to filing the application with the UDC.**

UDC Background

The UDC is a ten member committee created by City Council in 1968 whose purpose is to advise the City Planning Commission on the design of projects on City property or right-of-way. The UDC provides advice of an aesthetic nature in connection with the performance of the duties of the Commission under Sections 17.05, 17.06 and 17.07 of the City Charter. The UDC also advises the Department of Public Works in regards to private encroachments in the public right-of-way.



Project: Kanawha Plaza Improvements
Subject: Project Narrative for final approval of location, extent and character.
Date: For UDC submittal, March 19, 2015

Purpose of Submittal:

We are seeking final approval of location, extent and character for the purpose of starting demolition as indicated in the schedule below (on or before May 25, 2015) for Kanawha Plaza.

Project Purpose and Background:

Kanawha Plaza was built over the newly constructed RMA expressway around 1980. The Plaza has been the home of well attended music concerts, small festivals and passive activities, however it is currently in a state of disrepair with damaged concrete and overall neglect and decay. It is accented with a gushing stepped water fountain, irregular lawn and declining irregular tree canopy. The fountain plumbing and pumps have been updated and function well, but the concrete structure requires major renovation.

Kanawha Plaza is surrounded by corporate communities, parking decks and office towers. The goal is to renovate the park to create a safe, flexible, user friendly, attractive and semi-active outdoor amenity.

It is envisioned that the renovation will occur in multiple phases. After demolition, the initial Phase 1A, includes renovating the Plaza hardscape, lighting, and landscape to welcome in the Richmond Road World Cycling Championship in September 2015. A conscientious and sustainable design is presented with the understanding of the construction time limitations and the desire to maintain flexibility for future expansion. Elements like the improved fountain, splash pad, permanent stage canopy, exercise equipment, and focal point entryway requested by UDC, will be installed in Phase 1B, after conclusion of UCI bike race.

Phase 2 construction desires to enlarge the Plaza by enclosing the two openings over the RMA downtown expressway. This work will require consultation with the RMA and other local stakeholders. The goal of the Phase 2 enclosure will allow construction of permanent restrooms, and create a focal point structure for video displays and food service, tot lot and/or dog park. The timetable to accomplish and complete Phase 2 is undetermined.

Demolition and Phase 1A:

- The concrete pedestrian bridge will be removed.
- Concrete retaining and screen walls will be removed.
- Existing trees and vegetation will be removed except for one tree at corner of 9th and Byrd St.

- The site will be re-graded and terraced for better accessibility and visibility.
- New concrete curb and gutter will be recycled and new brick sidewalks will be installed around the perimeter.
- Access ramps and sloped entry walkways will be built.
- Improved site lighting with 3000K LED will be installed.
- New underground electric service, plumbing for irrigation and drinking fountain, conduit for future WiFi, security cameras and sound system that will be installed in Phase 1B.
- New Storm water drainage will be installed.
- New Exposed Aggregate Walkways and Concrete Pavers will be installed. Exposed Aggregate is intended to deter skateboarding.
- Wavelike paving patterns mimic water movement; provides interest at ground plane level, suggesting the sites past history as a turning basin, and provides a contemporary appeal from high rise buildings above.
- Natural Bermuda Sod, perimeter shade trees, interior small trees, shrubs, and groundcovers, along with Irrigation will be installed.
- Low granite seat wall planters will be built to accommodate small tree massing.
- A concrete and brick terrace area is provided at corner of 7th and Canal Sts. The paving is at sidewalk level with a rolled curb to permit vehicle access to back of stage activities. A granite screen wall with small trash dumpster will be located nearby.
- Relocated food truck area is paved with concrete pavers, has accent lighting, bollards, moveable tables and chairs. A drinking fountain and hose bib for cleanup will be nearby. A granite screen wall with portable toilets is also located nearby.
- The two highway screen walls on 7th and 9th street will be painted sky blue and planted with espalier magnolia trees. Those walls will be demolished in Phase 2.
- Four (4) bike racks will be installed at entrance points.
- City standard trash cans will be utilized.
- Stage platform (foundation & flooring) will be built in Phase 1A. The floor will be brick in alignment with the RVA logo and exposed aggregate in the center stage. (Stage canopy and RVA logo will be installed in Phase IB.)
- A rear Stage ramp and setup area will be provided for equipment loading and ADA.
- Paving for two sun shelters with photovoltaic panels atop and lighting beneath, will be installed and can be used for small gatherings or dining, and will have outlets to recharge portable electronics. (The shelter will be installed in phase IB.)
- 10' diameter personal workout circles will be installed at the exercise area. They are made of poured concrete and poured rubberized surfacing. Standard City Parks and Recreation workout equipment will be installed in Phase 1B.
- Sculpture Garden Area: A sod lawn area planted with limbed up Foster Holly trees and Littleleaf Linden trees, will be installed. Future sculpture will be coordinated by the Richmond Art Commission.
- Fountain Area: Concrete core testing is in process to verify the integrity of the fountain structure. The current fountain is functional and can operate during the bike race. Redesign for an improved fountain is ongoing.

Phase 1B: (After the UCI Race, October 1st)

- Installation and Completion of Stage Canopy
- Installation of Exercise Equipment.
- Installation of Fountain Improvements including the Splash Pad.
- Installation of first piece of Sculpture.
- Installation of Focal point at Main entry.
- Installation of WiFi, security cameras and sound system
- Installation of sun shelters with photovoltaic panels atop and lighting beneath

Project Construction Schedule (Phase 1A):

- Demolition scheduled start On or before May 25, 2015
- Construction scheduled start June 15, 2015

Phase IA & IB Budget Estimate and Funding Sources:

The City of Richmond is partnering with a number of private sector corporate sponsors, including Dominion Resources Services, who are working collectively to improve Kanawha Plaza. The cost estimate for Phases 1A & 1B is four to six million dollars (\$4M-\$6M).

The motion carried by the following vote:

Aye: 4- Mr. Poole, Mr. Johannas, Ms. Ferrara and Mr. Sadler

No: 2- Mr. Law and Mr. Cole

UDC No. 2015-0317. Conceptual Location, Character and Extent Review of renovations to Kanawha Plaza, 701 E. Canal Street

A motion was made by Mr. Law, seconded by Mr. Sadler, that this Location, Character and Extent Item be approved with the following conditions recommended by the Urban Design Committee:

1. That the applicant considers ways to provide year-round interest in the fountain design, regardless of whether or not the water is running. *Response: The design of the fountain will be done in phase IB (After the UCI Race). Concrete testing is in process.*
2. That the design in the area around the fountain ties into the landscape plans for Gateway Plaza and recognizes the intended connection to the river. *Response: Curvilinear plant beds and perennials, similar to Gateway have been added to the corner of Canal & 9th Street. The existing area of refuge on the corner of Canal & 9th Street is landscaped in Gateway project. Wavelike patterning is incorporated in the paving at Kanawha.*
3. That the splash pad ties into the fountain design. *Response: Splash pad will be integrated to the fountain during phase IB (After the UCI Race). Design is ongoing.*
4. That a focal point is provided at the terminus of S. 8th Street. *Response: A Main Entry Structural focal point will be provided in alignment with 8th street. Design is ongoing and part of Phase 1B*
5. That the design of the Plaza looks at different scales of gathering spaces for user groups.
Response: The gathering areas include:
 - a. *Stage for concert or for shaded dining area with tables.*
 - b. *Lawn for spectators, field games, sunbathing, or special events.*
 - c. *Two shade shelters on East side of lawn use for electronic charging stations and large enough to contain tables and chairs for smaller group gatherings.*
 - d. *Exercises areas with outdoor exercise equipment.*
 - e. *Future Sculpture Area for art and /or historically significant interpretations.*
 - f. *Food trucks and dining area with moveable tables and chairs*
 - g. *Fountain and splash pad for adults and children (Phase 1B)*
6. That there is a general reduction of hardscape in the overall plans. *Response: Greenspace has been increased by connecting plant beds and grass areas into larger massing. Actual % will be calculated.*
7. That the proposed synthetic turf is replaced with real grass. *Response: All lawn areas will be natural Bermuda Sod, (irrigated)*
8. That the final plans include representative renderings of key areas of the park. *Response: See perspective renderings of products, materials, and colors.*
9. That the final plans include a tree survey for the park and the adjacent street trees indicating tree species, caliper size, health and whether or not it is to be removed. *Response: Due to major*

demolition and grading required to re-build Kanawha Plaza, one existing tree will remain at corner of 9th and Byrd Streets as shown on drawing.

10. That the final plans include a grading plan. *Response: A grading plan is provided.*
11. That the applicant endeavors to retain as many existing healthy trees as possible, or phase the replacement of trees over multiple years. *Response: All new trees, shrub, and groundcovers will be installed in Phase 1A.*
12. That the final plans include a landscape plan and schedule to include plant species, location, quantity, and size at the time of installation. *Response: Landscape Plan and detailed plant list is provided.*
13. That the final plans include the planting of street trees on all park frontages where appropriate. *Response: Will Comply, New Street trees are provided in landscape plan.*
14. That the applicant considers alternate locations for the splash pad that are more interior to the site. *Response: The splash pad will be nestled in a 'safe zone' on the interior of the site and incorporated into the design of the fountain. This is part of Phase IB*
15. That prior to final consideration the applicant works with the Department of Public Works to ensure that every pedestrian crossing to the park contains a pedestrian countdown signal, preferably with an audio component, and ladder-style crosswalks. *Response: Public Works is in agreement of improving pedestrian access to the park. Layout will be provided by DPW.*
16. That prior to final consideration, the applicant works with the Department of Public Works to explore the opportunity of creating a curbed pedestrian refuge at S. 7th and Canal Streets as has been created at the corner of S. 9th and E. Canal Street, and to incorporate such a feature into the overall plans for the site if it is deemed a possibility. *Response: Public Works has not resolved this item as of today March 19th. Layout will be provided by DPW.*
17. That the parking needs that are currently shown internal to the site be met along S. 7th Street. *Response: New 7th St. on-street parking is agreed by DPW, and will show on their forthcoming layout. As used currently, the paved area shown on the corner of 7th and Canal is to provide access for stage production activity. It is at sidewalk level. A rolled curb will be installed to permit vehicle access. This was reviewed and approved by DPW.*
18. That pedestrian access along S. 7th Street be provided regardless of the resolution of the parking. *Response: Pedestrian Access along 7th is maintained.*
19. That prior to final consideration, the applicant works with the Department of Public Works to explore the opportunity of creating curb extensions at the adjacent street intersections that lead into the park. *Response: DPW have been informed of the request and they will provide solution for the area of refuge.*
20. That the applicant confirms with the Department of Public Works that there is sufficient right-of-way for a designated and separate food truck lane. *Response: Per meeting 02-11-2015 DPW disapproved the food truck location on Canal Street. Food Trucks have been moved to an interior lane within the site.*
21. That the final plans include all of the proposed Public Works projects in the right-of-way that will be done in conjunction with the project. *Response: Per meeting 02-11-2015, DPW approved the entrance from 9th, and exit of vehicle/food trucks onto Byrd Street and the stage delivery paving area on corner of 7th and Canal Street. Note that each access will be at sidewalk level with rollup curb and will not look like driveway.*

22. That the final plans include details on the proposed lighting, including but not limited to pole and fixture model(s), height, finish, light source and light color temperature. *Response: Cut sheet of the light fixtures are included, light color temp will not exceed 3000K.*
23. That the proposed lighting fixtures have a maximum color temperature of 3000k. *Response: Lighting color temp will not exceed 3000K.*
24. That the lighting fixtures be full cut-off. *Response : Agreed*
25. That the final plans include a photometric diagram. *Response: photometric plan is included.*
26. That the final plans include a signage package. *Response: Signage will be done in phase 1B.*
27. That the final plans include details on the proposed stage canopies, including but not limited to structural components, materials, dimensions and finishes. *Response: 3D sketch and materials are submitted for the stage canopy. The Shelter/ charging station are shown on the overall 3D view.*
28. That the final plans include details on all proposed site amenities, including but not limited to: handrails, fences, moveable furniture, benches, trash cans, bike racks, exercise stations and water fountains. *Response: Provided in submittal*
29. That the applicant considers locating a bike rack near the park entrance point at the terminus of S. 8th Street. *Response: We will conform.*
30. That the incorporation of public art includes involving the Public Art Commission and other appropriate stakeholders in regards to sculpture in the park or treatment of the blank walls over the expressway. *Response: Public Art Commission has been contacted. Installation of sculpture will be done in phase 1B. The expressway wall will be painted only. Trees and landscape will be planted in front of the walls.*
31. That the service road shown in plans presented at the Urban Design Committee meeting on 2/5/2015 be integrated to not be so noticeably different than the design of the Plaza around it. *Response: The service road and dining area are blended with same/similar paving patterns.*
32. That any Phase 2 improvements are submitted to the UDC for separate review at such time in the future as plans are more defined. *Response: Phase 2 will be submitted for location, character, extent.*

Canal St.

7th St.

9th St.

Byrd St.

KEY

- (A) Stage, Canopy, Access Ramp
- (B) Gazebo/Sun Shelter
- (C) Natural Turf (31,000 SF)
- (D) Off Street Parking
- (E) Moveable Table and Chairs
- (F) Granite Retaining Wall
- (G) Food Truck Vending
- (H) Workout Zone or Station
- (I) 10' ft Dia. Workout Circles
- (J) Human & Dog Drinking Fountain
- (K) Rolled Curb
- (L) Vehicle/Vendor Access Pavers
- (M) Pavement Lights or Bollards
- (N) Safety Wall, Painted & Planted
- (O) Entry Ramp Exp Aggr. Concrete
- (P) Recycled & New Brick Pavers
- (Q) Bike Rack
- (R) Welcome Sign
- (S) Future Sculpture Garden
- (T) Mechanical Room
- (U) Portable Toilet Screen Wall
- (V) Concert: Gathering/Dance Area
- (W) Site Light/Security Camera/Speakers/WiFi
- (X) Trash Collection Screen Wall
- (Y) Future Water Jet Fountain
- (Z) Rubberized Surfacing
- (AA) Littleleaf Linden Lg. Tree
- (BB) Black Gum Lg. Tree
- (CC) Natchez: Crape Med. Tree
- (DD) Washington Hawthorn Sm. Tree
- (EE) Forster Holly Tree Form
- (FF) Little Gem Magnolia (Espalier)
- (GG) Low Shrubs or Perennials
- (HH) Evergreen Groundcover

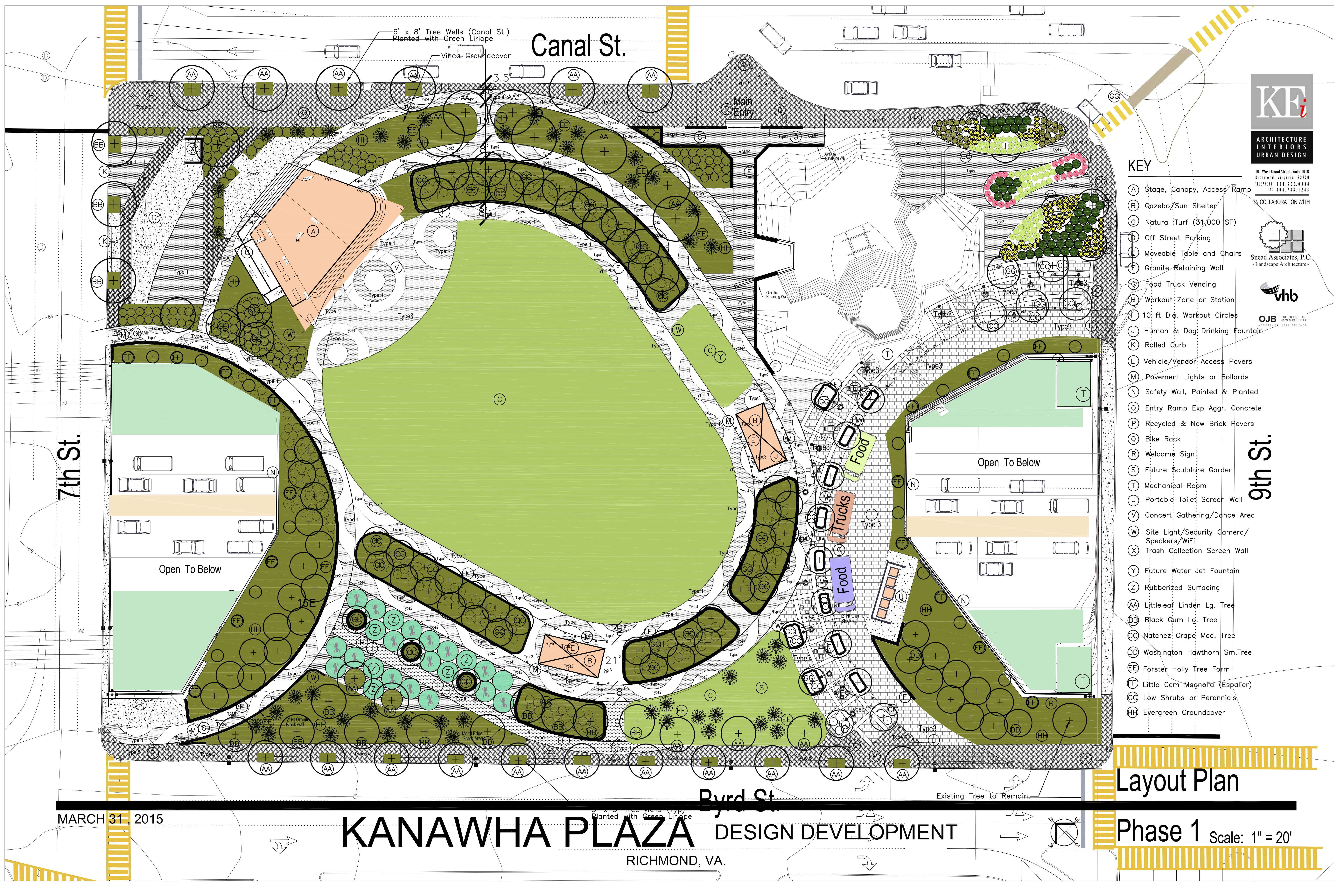
Layout Plan

Phase 1 Scale: 1" = 20'

MARCH 31, 2015

KANAWHA PLAZA DESIGN DEVELOPMENT

RICHMOND, VA.



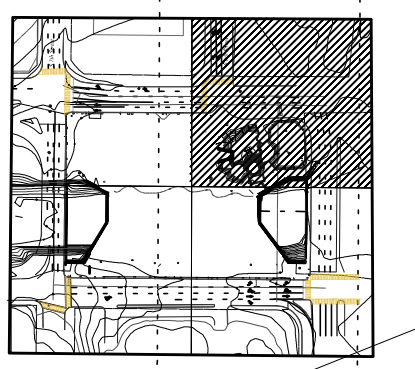
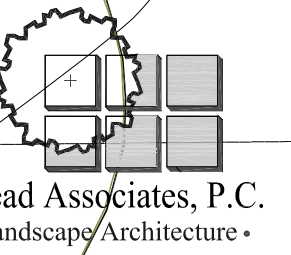
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101 West Broad Street, Suite 1018
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IN COLLABORATION WITH

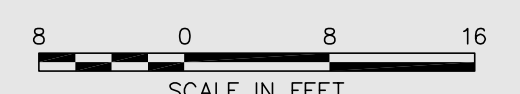
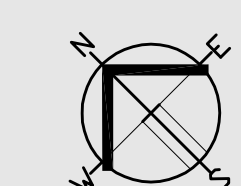


Sheet Key

MARCH 31, 2015

KANAWHA PLAZA DESIGN DEVELOPMENT

RICHMOND, VA.



7th St.

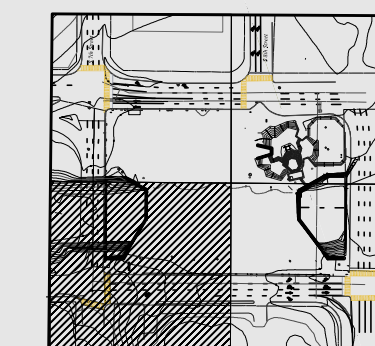
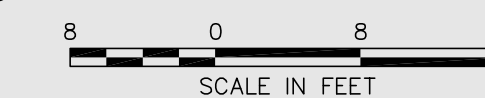
Open To Below

Byrd St.

5' x 8' Tree Planted with

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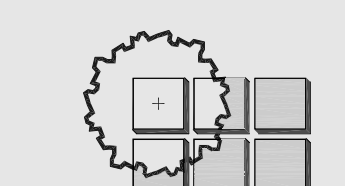
Sheet Key



ARCHITECTURE
INTERIORS
URBAN DESIGN

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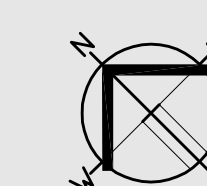
Snead Associates, P.C.
Landscape Architecture



MARCH 31, 2015

KANAWHA PLAZA DESIGN DEVELOPMENT

RICHMOND, VA.



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9th St.

Byrd St.

Sheet Key

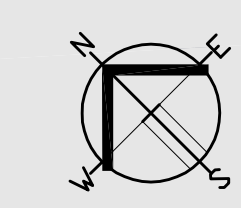
Layout Plan



MARCH 31, 2015

KANAWHA PLAZA DESIGN DEVELOPMENT

RICHMOND, VA.



KFi
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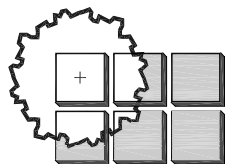
Snead Associates, P.C.
 Landscape Architecture

vhb

OJB THE OFFICE OF JAMES BURNETT

PLANT LIST: Kanawha Plaza

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES/SPACING
Trees					
AA	32	Tilia cordata	Littleleaf Linden	2.5" Caliper	B & B, Specimen, Spacing as shown
BB	14	Nyssa sylvatica	Black Gum	2.5" Caliper	B & B, Specimen, Spacing as shown
CC	69	Lagerstroemia indica 'Natchez'	Natchez White Crape Myrtle	10-12' Ht	B & B, Multi Stem, Straight Growth
DD	26	Crataegus phaenopyrum	Washington Hawthorn	6-7' Ht	B & B, Specimen, Spacing as shown
EE	33	Ilex attenuata 'Forsteri'	Fosteri Holly	8-10' Ht	B&B, Tree Form
FF	31	Magnolia grandiflora 'Little Gem'	Espalier Little Gem Magnolia	4-5' Ht	Espalier Form, Container Grown
Shrubs					
	500	Raphiolepis indica	Indian Hawthorne	5 Gallon	Container, 3' O.C.
Perennials and Groundcovers					
	200	Muhlebergia capillaris	Muhly Grass	3 Gallon	Container, 3' O.C.
	100	Pennisetum alopecuroides 'Hamlin'	Hamlin Fountain Grass	1 Gallon	Container, 3' O.C.
	100	Oxalis francii	Oxalis	1 Qt	Container, 18" O.C.
	200	Hosta spp. 'Francis Williams'	Francis Williams Hosta	1 Qt	Container, 2' O.C.
	200	Hosta spp. 'Fire & Ice'	Fire & Ice Hosta	1 Qt	Container, 18" O.C.
	200	Sedum angelina	Angelina Sedum	1 Qt	Container, 18" O.C.
	100	Calamagrostis acutiflora 'Carl Foerster'	Carl Foerster Feather Reed Grass	1 Gallon	Container, 3' O.C.
	100	Rudbeckia fulgida	Black Eyed Susan	1 Gallon	Container, 3' O.C.
	100	Stipa tenuissima 'Ponytails'	Ponytails Feathergrass	1 Gallon	Container, 3' O.C.
	5000	Vinca minor	Periwinkle	2" Pot	Container, 18" O.C.
	1000	Liriope muscari 'Royal Purple'	Royal Purple Green Liriope	1 Qt	Container, 12" O.C.
SOD	0.6 ac	Bermuda spp. Sod	Sod All Disturbed Areas Not Designated As Plant Bed		



Snead Associates, P.C.
 Landscape Architecture
 Land Use Planning
 8005 Creighton Pkwy #703
 Mechanicsville, VA 23111
 804-240-7823
 sneadassociates@aol.com

**Design Development
 for
 Kanawha Plaza
 Improvements**

Date: 03-19-2015
 Scale: ----
 Designed By: ----
 Drawn By: ----
 Checked By: C.G. Snead
 Project Number: ----

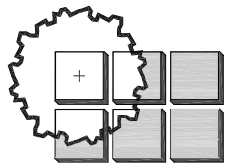
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Turfgrass: Bermuda

Drought Tolerant
Extremely Durable and Wear Resistant



Turfgrass: Bermuda Species



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Design Development
for
Kanawha Plaza
Improvements

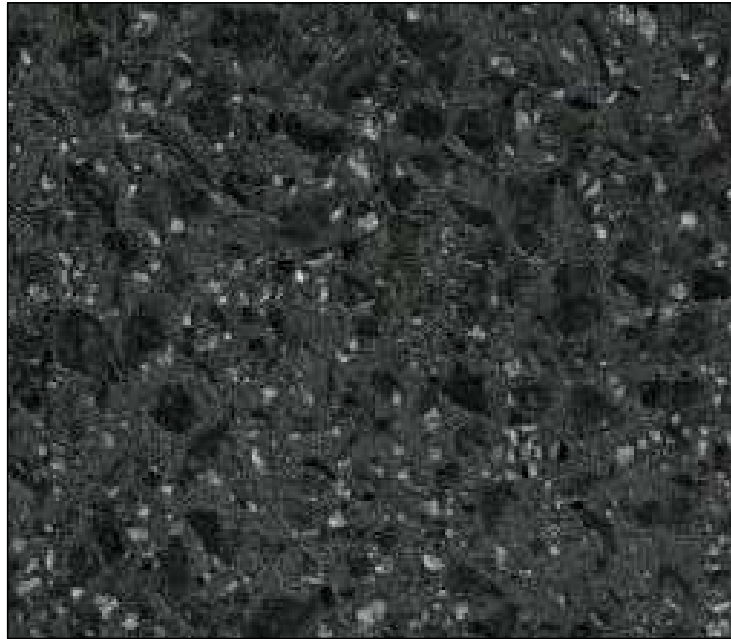
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Brown Stone Exposed Aggregate Concrete

Type 1

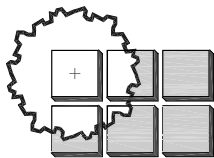


Gray Stone Exposed Aggregate Concrete

Type 2



Exposed Aggregate Concrete



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Landscape Architecture
Land Use Planning
8005 Creighton Pkwy #703
Mechanicsville, VA 23111
804-240-7823
sneadassociates@aol.com

Design Development
for
Kanawha Plaza
Improvements

Date: 03-19-2015
Scale: ----
Designed By: ----
Drawn By: ----
Checked By: C.G. Snead
Project Number: ----

Sheet Number:
of



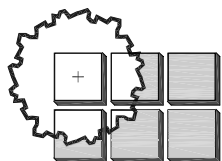
Belgard / Mega Arbel Concrete Paver
 Color: Fossil Beige
 Type 3



Exposed Aggregate Concrete
 White Gravel with White Sand
 Type 4



Concrete Paver and Stamped Conc. Patterns



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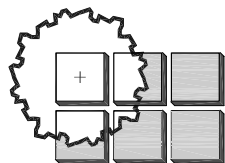
Sheet Number:
 of



Herringbone Brick

Color: Traditional Blend plus reclaimed on-site brick.

Type 5



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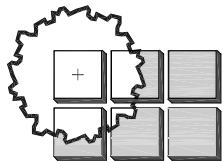
Design Development
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Kanawha Plaza
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Date: 03-19-2015
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Granite Block Material for Planter Walls, Dumpster Screen Wall
and Portable Toilet Screen Wall



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of

— MATCHING GRANITE CAP

#5 DOWEL FOR
PRECAST CAP

3/8" MASONRY
JOINTS (TYP.)

6"X 18"
GRANITE BLOCK
(COLOR: GRAY)

— JOINT REINFORCEMENT
@ EVERY 2 COURSES.
LADDER TYPE WITH
2-3/16" SIDE RODS

FOR DRAINAGE, CREATE
SCUPPER @ ASPHALT PAVING
LEVEL. OMIT ONE FULL BLOCK
EVERY 15' O.C.

1/2" EXPANSION JOINT

FINISHED GRADE OF
NEW CONCRETE PAD

FINISHED GRADE

6" #57 STONE
COMPACTED
@ 95%

3 #5 REBAR CONT.
#5 REBAR @ 12" O.C.

#5 DOWELS @ 24" O.C.
ALTERNATE DIRECTION
HORIZ. LEG.

COMPACTED SUBGRADE

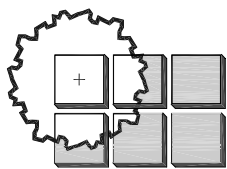
7'-0"

18"

16"



GRANITE SCREEN WALL

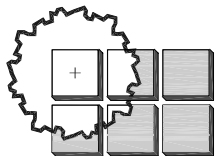
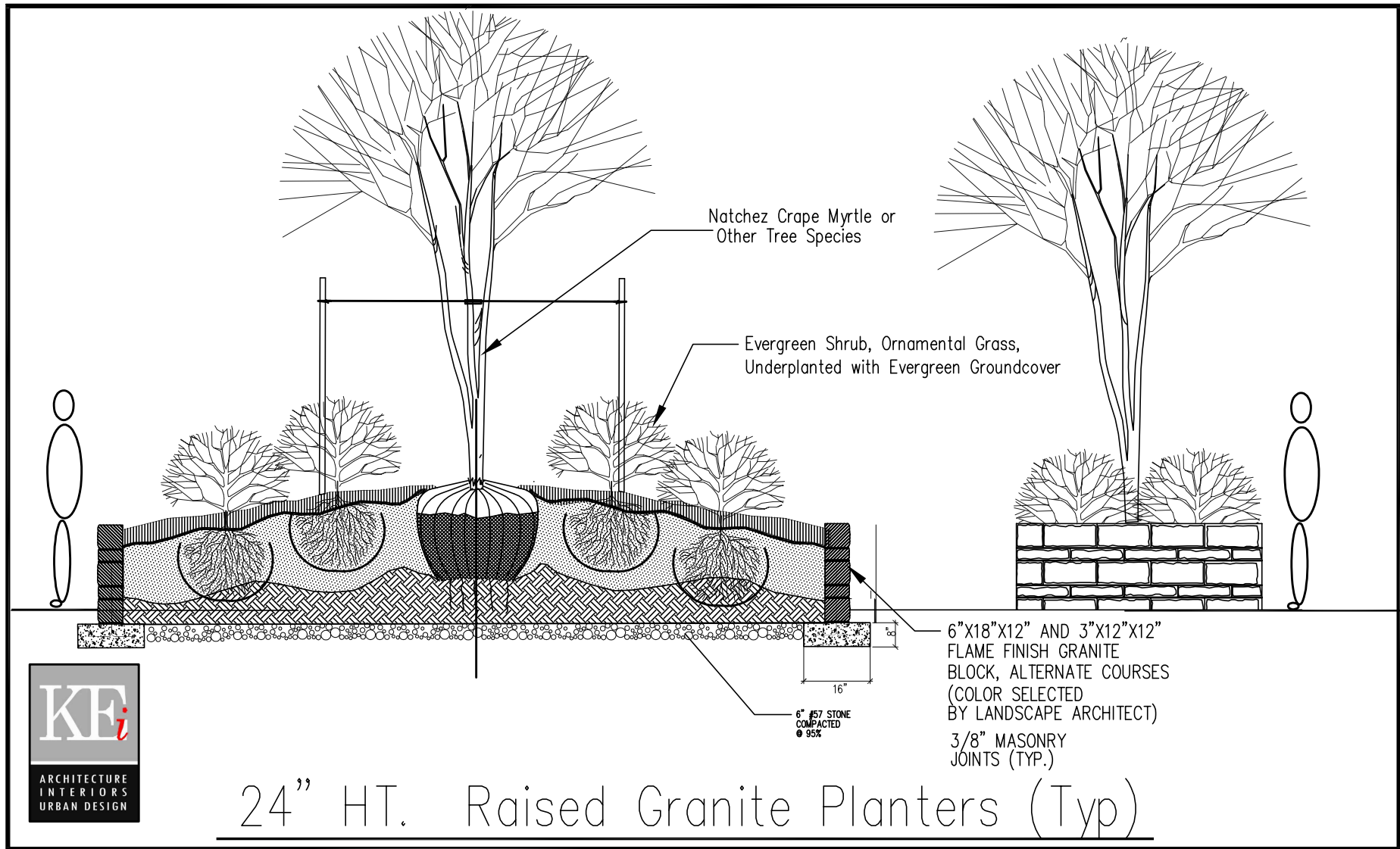


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**Design Development
for
Kanawha Plaza
Improvements**

Date: 03-10-2015
Scale: ----
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Drawn By: ----
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of



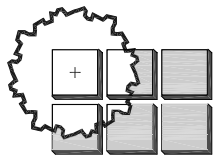
FS Industries
 Model No. TF6005
 Color: French Gray

Bollard



Creative Pipe, Inc.
 Model No. HS-2-F-SS

Bike Rack



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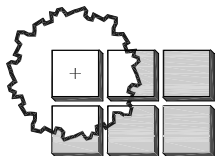
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Theparkcatalogue.com / #154-1342



Drinking Fountain, Wheel Chair Accessible , with Dog Bowl



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Improvements

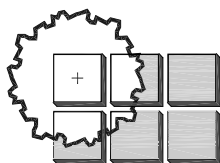
Date: 03-19-2015
Scale: ----
Designed By: ----
Drawn By: ----
Checked By: C.G. Snead
Project Number: ----

Sheet Number:
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Fermob / Bistro Table and Chairs
 Color: Verveine (Lime Green)
Americancountryhomestore.com

Moveable Tables and Chairs



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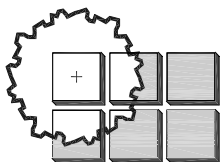
**Design Development
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Date: 03-19-2015
 Scale: ----
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 Checked By: C.G. Snead
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Food Truck Area Dining Light: Urbis / Boreal



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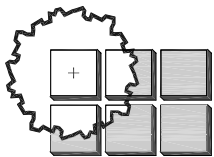
Sheet Number:
 of

Notes by Robert:

Notes by Robert:



Tree Uplights: Vision 3 / IG3 Uplight



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Project Number: ----

Sheet Number:
of



Transmittal

Lighting Virginia-Central
 400 G2 Southlake Blvd.
 Richmond VA 23236
 Phone: (804) 379-7777
From: Diana Ades

Project Kanawha Plaza
Quote# LV - CENTRAL15-17875
Location Richmond VA
 Contact:

ATTACHED WE ARE SENDING YOU 1 COPIES OF THE FOLLOWING ITEMS:

- | | | |
|-----------------------------------|---|--------|
| <input type="checkbox"/> Drawings | <input type="checkbox"/> Specifications | Other: |
| <input type="checkbox"/> Prints | <input type="checkbox"/> Information | |
| <input type="checkbox"/> Plans | <input type="checkbox"/> Submittals | |

THESE ARE TRANSMITTED FOR:

- | | | |
|--|---|---------------------------------|
| <input type="checkbox"/> Prior Approval | <input type="checkbox"/> Resubmittal for Approval | <input type="checkbox"/> Record |
| <input type="checkbox"/> Approval | <input type="checkbox"/> Corrections | Bids due on: |
| <input type="checkbox"/> Approval as Submitted | <input type="checkbox"/> Your Use | Other: |
| <input type="checkbox"/> Approval as Noted | <input type="checkbox"/> Review and Comment | |

Qty	Type	MFG	Part
6	A3	Kim Lighting	RA25-3-E35-120L-3K-X-BL-LS/HA02L
6	A4	Kim Lighting	RA25-4-E35-120L-3K-X-BL-LS/HA02L
12	B	ERCO	34124.023 / POLE BRACKET
12	A POLE	American Lite Pole	RNA-20-45-7-AB-PC(BL)-T20R
22	C2	Kim Lighting	RA17-2-E35-60L-3K-X-BL-LS/HA02S
22	C POLE	American Lite Pole	RNA-14-45-7-AB-PC(BL)-T20R
13	L	Misc. Vendor	SCHREDER BOR-LHP3200-MT-XX-XXX-RAL(SILVER)/A114-1-59
13	L POLE	American Lite Pole	RNA-12-45-7-AB-PC(SILVER)-T20R
40	S	C W COLE & COMPANY, INC.	L606W-AL
110	T	Vision3 Lighting	IG3B-XX-118-0-0-0
10	T XFMR	Vision3 Lighting	XM2-XXX-120-X

Submitted by Lighting Virginia-Central

Catalog Number:

RA25-3-E35-120L-3K-X-BL-LS/
HA02L

Notes:

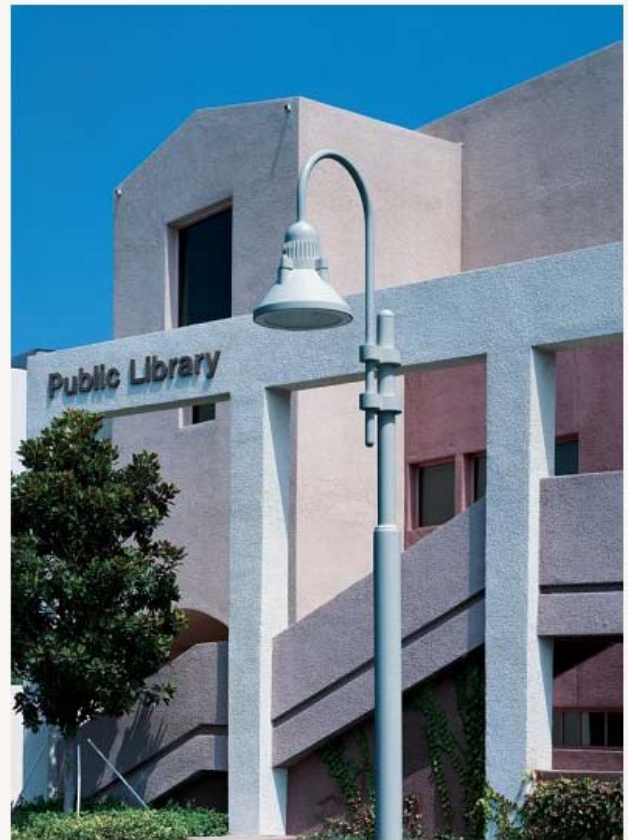
Type:

A3

LV - CENTRAL15-17875



Job Name:
Kanawha Plaza





Job Name:
Kanawha Plaza

Catalog Number:RA25-3-E35-120L-3K-X-BL-LS/
HA02L

Notes:

Type:**A3**

LV - CENTRAL15-17875

**KIM LIGHTING****RA25**25" Era[®] PicoEmitter[™] LED

revision 9/10/14 • kl_ra25eled_spec.pdf

Type:**Job:****Catalog number:**

/ / / / /
 Mtg Fixture Electrical Module Finish Options Pole & Arm*
 See page 2 See page 3

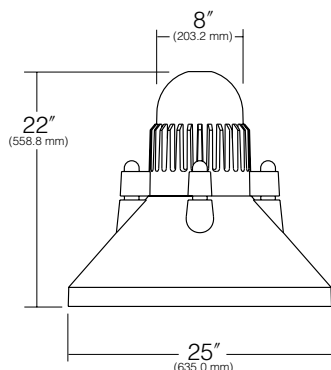
*Select pole and arm from Kim **Arms and Poles Selection Guide**. If pole is provided by others, indicate O.D. for arm fitting. Arm Options are also shown on page 4.

Approvals:

Date:
Page: 1 of 6

Specifications

25" Diameter
120 Light Emitting Diodes
Total System Watts = 126W



The Ballast Housing is a one-piece die-cast, low copper (<0.6% Cu) aluminum alloy component with integral cooling fins. The Reflector Housing is one-piece die-cast, low copper (<0.6% Cu) aluminum alloy. The Ballast Housing attaches to the Reflector Housing with stainless steel fasteners and is sealed with a silicone gasket.

One-piece die-cast, low copper (<0.6% Cu) aluminum alloy. Stainless steel hinges provided for attachment to the Reflector Housing. Stainless steel threaded fasteners provide easy access, concealed from normal view. The 3/16" thick clear flat lens seals against the reflector flange by a one-piece extruded silicone gasket with fused seam, to produce a fully sealed optical chamber.

Stainless steel bolts are provided to attach the luminaire to the crook arm or swept arm mounting.

All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Module includes a driver, LifeShield[™] temperature control device and surge protector. Electrical module attaches to housing with key hole slots, accessible by opening the lens frame and removing optical module. Driver is rated for -40°F starting and has a 0-10V dimming interface for multi-level illumination options.

Precision, replaceable PicoEmitters are positioned to achieve directional control toward desired task. The entire EmitterDeck[®] fastens to the housing as a one-piece module.

TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray[™], Platinum Silver, or White. Custom colors are available.

Listed To: UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires.

Kim Lighting warrants Era LED products ("Product(s)") sold by Kim Lighting to be free from defects in material and workmanship for (i) a period of five (5) years for metal parts, (ii) a period of ten (10) years for exterior housing paint finish(s), (iii) a period of six (6) years for LED Light Engines (PicoEmitter reflectors) and, (iv) a period of five (5) years for LED power components (LED Driver, LifeShield[®] temperature control device, surge protector), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product.

Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious injury.



HUBBELL LIGHTING, INC.

U.S. Patent D430,687

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



Job Name:
Kanawha Plaza

Catalog Number:
RA25-3-E35-120L-3K-X-BL-LS/
HA02L
Notes:

Type:
A3

LV - CENTRAL15-17875



RA25
25" Era® PicoEmitter™ LED
revision 9/10/14 • kl_ra25eled_spec.pdf

Type:

Job:

Page: 2 of 6



Standard Features

Mounting

Plan View:

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EPA 25": 1.5	EPA 25": 3.0	EPA 25": 4.5	EPA 25": 5.2	EPA 25": N/A	
Cat. No.: <input checked="" type="checkbox"/> 1A	Cat. No.: <input type="checkbox"/> 2B	Cat. No.: <input type="checkbox"/> 3Y	Cat. No.: <input type="checkbox"/> 4C	Cat. No.: <input type="checkbox"/> 1W	

NOTE: 1A, 2B, 3Y and 4C mounting arms are part of the Pole Assembly. 1W Wall Mount arm is **not** included and must be ordered separately. See page 4 for styles and ordering information.

Fixture

Cat. No. designates fixture and optic

RA25 Housing Size: 25"	x	E35
	Distribution:	E35 = 350mA
<input type="checkbox"/> 1 = Type I Full Cutoff <input type="checkbox"/> 2 = Type II Full Cutoff <input checked="" type="checkbox"/> 3 = Type III Full Cutoff <input type="checkbox"/> 4 = Type IV Full Cutoff <input type="checkbox"/> 5 = Type V Square Full Cutoff <input type="checkbox"/> L = Type L Left Full Cutoff <input type="checkbox"/> R = Type R Right Full Cutoff		

Electrical Module

Cat. Nos. for Electrical Modules available:

120L Source: 120L = 120 LED's	xK	x	SELECT VOLTAGE
	Color Temperature:	Voltage:	
	<input checked="" type="checkbox"/> 3K = 3000K <input type="checkbox"/> 4K = 4200K <input type="checkbox"/> 5K = 5100K <input type="checkbox"/> 2K = 580nm - Amber		
		<input type="checkbox"/> 120 = 120V <input type="checkbox"/> 208 = 208V <input type="checkbox"/> 240 = 240V <input type="checkbox"/> 277 = 277V <input type="checkbox"/> 347 = 347V <input type="checkbox"/> 480 = 480V	

Finish

TGIC powder coat

Color: **Black** Dark Bronze Light Gray Stealth Gray Platinum Silver White Custom Color¹
 Cat. No.: **BL** **DB** **LG** **SG** **PS** **WH** **CC**

¹Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____

0-10V Dimming Interface

Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems including Hubbell Building Automation wiHUBB™. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming lead.





Job Name:
Kanawha Plaza

Catalog Number:
RA25-3-E35-120L-3K-X-BL-LS/
HA02L
Notes:

Type:
A3
LV - CENTRAL15-17875



RA25
25" Era® PicoEmitter™ LED
revision 9/10/14 • kl_ra25eled_spec.pdf

Type:

Job:

Page: 5 of 6



Arm Options

Arms **Note:** Wall mount arm is **not** included and must be ordered separately. Refer to Kim Lighting's Arms and Poles Selection Guide for complete details.

Mtg.	Post Top Crook			Side Pole Crook			Post Top Swept Cast Arm		
	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.
1A	<input type="checkbox"/> HA01L	<input type="checkbox"/> HA01L-TM1	—	<input type="checkbox"/> HA02L	<input type="checkbox"/> HA02L-TM1	<input type="checkbox"/> HA02S-W	<input type="checkbox"/> HA03L	<input type="checkbox"/> HA03L-TM1	—
2B	—	—	—	—	<input type="checkbox"/> HA02L-TM2	—	—	<input type="checkbox"/> HA03L-TM2	—
3Y	—	—	—	—	<input type="checkbox"/> HA02L-TM3	—	—	<input type="checkbox"/> HA03L-TM3	—
4C	—	—	—	—	<input type="checkbox"/> HA02L-TM4	—	—	<input type="checkbox"/> HA03L-TM4	—

Mtg.	Side Pole Swept Cast Arm			Side Pole S-Shaped Up Cast Arm		
	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.
1A	<input type="checkbox"/> HA11L	<input type="checkbox"/> HA11L-TM1	<input type="checkbox"/> HA11L-W	<input type="checkbox"/> HA12L	<input type="checkbox"/> HA12L-TM1	<input type="checkbox"/> HA12L-W
2B	—	<input type="checkbox"/> HA11L-TM2	—	—	<input type="checkbox"/> HA12L-TM2	—
3Y	—	<input type="checkbox"/> HA11L-TM3	—	—	<input type="checkbox"/> HA12L-TM3	—
4C	—	<input type="checkbox"/> HA11L-TM4	—	—	<input type="checkbox"/> HA12L-TM4	—

Mtg.	Side Pole Neo-Classic Arm			Side Pole Arm w/Top Scroll			Side Pole Ribbon Arm w/Top Gusset		
	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.
1A	<input type="checkbox"/> HA14L	<input type="checkbox"/> HA14L-TM1	<input type="checkbox"/> HA14L-W	<input type="checkbox"/> HA31L	<input type="checkbox"/> HA31L-TM1	<input type="checkbox"/> HA31L-W	<input type="checkbox"/> HA33L	<input type="checkbox"/> HA33L-TM1	<input type="checkbox"/> HA33L-W
2B	—	<input type="checkbox"/> HA14L-TM2	—	—	<input type="checkbox"/> HA31L-TM2	—	—	<input type="checkbox"/> HA33L-TM2	—
3Y	—	<input type="checkbox"/> HA14L-TM3	—	—	<input type="checkbox"/> HA31L-TM3	—	—	<input type="checkbox"/> HA33L-TM3	—
4C	—	<input type="checkbox"/> HA14L-TM4	—	—	<input type="checkbox"/> HA31L-TM4	—	—	<input type="checkbox"/> HA33L-TM4	—

Mtg.	Side Pole Ribbon Arm w/Top Brace			Side Pole Ribbon Arm w/Top Brace & Bottom Scroll			Side Pole Ribbon Arm w/Top Brace & Bottom Gusset		
	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.
1A	<input type="checkbox"/> HA35L	<input type="checkbox"/> HA35L-TM	<input type="checkbox"/> HA35L-W	<input type="checkbox"/> HA37L	<input type="checkbox"/> HA37L-TM	<input type="checkbox"/> HA37L-W	<input type="checkbox"/> HA38L	<input type="checkbox"/> HA38L-TM	<input type="checkbox"/> HA38L-W
		Consult factory for other mtgs.	Consult factory for other mtgs.		Consult Factory for other mtgs	Consult Factory for other mtgs		Consult Factory for other mtgs	Consult Factory for other mtgs

Arm Finial: HA F2 - Traditional style finial available to close off mounting hub opposite the fixture.
 *Not available on arm where indicated.





Job Name:
Kanawha Plaza

Catalog Number:

RA25-3-E35-120L-3K-X-BL-LS/
HA02L

Notes:

Type:

A3

LV - CENTRAL15-17875



KIM LIGHTING

RA25

25" Era[®] PicoEmitter[™] LED
revision 9/10/14 • kl_ra25eled_spec.pdf

Type:

Job:

Page: 6 of 6



Lumen Performance Charts

Spectroradiometric			
	3000K Average	4200K Average	5100K Average
Correlated Color Temp. CCT (K)	2800K-3175K	3800K-4600K	4600K-5600K
Color Rendering Index (CRI)	≤80	≤80	≤70
Power Factor	>.90	>.90	>.90

Projected Lumen Maintenance		
mA	100,000 hrs	(Calculated L70)
350	93.96%	675,000 Hrs.

Electrical Drive Current		
Volts - AC	Amps - AC	System Watts
120	1.05	126
208	0.61	126
240	0.53	126
277	0.45	126
347	0.36	126
480	0.26	126

B.U.G. Rating (TM15) in Lumens when B = Backlight, U = Uplight, G = Glare								
Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	TBD	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B1 U0 G2	B3 U0 G1	TBD
4200K	TBD	B3 U0 G3	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B3 U0 G2	TBD
5100K	TBD	B3 U0 G3	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B3 U0 G2	TBD

Absolute Lumens								
Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	TBD	8181	7999	6556	7970	6670	8438	TBD
4200K	TBD	10298	10070	8253	10034	8397	10622	TBD
5100K	TBD	11296	11046	9053	11006	9210	11651	TBD

LED performance and lumen output continues to improve at a rapid pace. Log onto www.kimlighting.com to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

Submitted by Lighting Virginia-Central



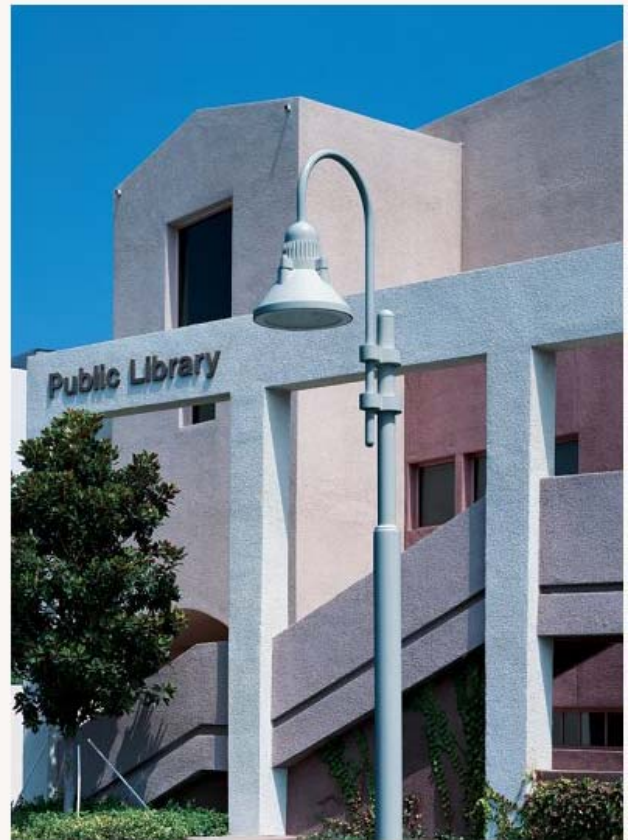
Job Name:
Kanawha Plaza

Catalog Number:
RA25-4-E35-120L-3K-X-BL-LS/
HA02L
Notes:

Type:

A4

LV - CENTRAL15-17875





Job Name:
Kanawha Plaza

Catalog Number:

RA25-4-E35-120L-3K-X-BL-LS/
HA02L

Notes:

Type:**A4**

LV - CENTRAL15-17875

**KIM LIGHTING****RA25**25" Era[®] PicoEmitter[™] LED

revision 9/10/14 • kl_ra25eled_spec.pdf

Type:**Job:****Catalog number:**

____ / ____ / ____ / ____ / ____
Mtg Fixture Electrical Module Finish Options Pole & Arm*
____ See page 2 _____ See page 3 _____

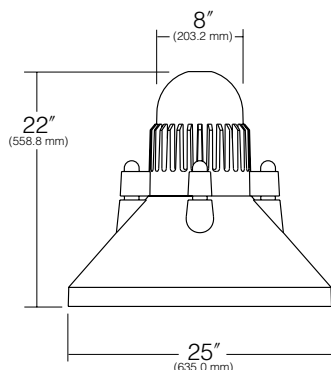
*Select pole and arm from Kim **Arms and Poles Selection Guide**. If pole is provided by others, indicate O.D. for arm fitting. Arm Options are also shown on page 4.

Approvals:

Date:
Page: 1 of 6

Specifications

25" Diameter
120 Light Emitting Diodes
Total System Watts = 126W



The Ballast Housing is a one-piece die-cast, low copper (<0.6% Cu) aluminum alloy component with integral cooling fins. The Reflector Housing is one-piece die-cast, low copper (<0.6% Cu) aluminum alloy. The Ballast Housing attaches to the Reflector Housing with stainless steel fasteners and is sealed with a silicone gasket.

One-piece die-cast, low copper (<0.6% Cu) aluminum alloy. Stainless steel hinges provided for attachment to the Reflector Housing. Stainless steel threaded fasteners provide easy access, concealed from normal view. The 3/16" thick clear flat lens seals against the reflector flange by a one-piece extruded silicone gasket with fused seam, to produce a fully sealed optical chamber.

Stainless steel bolts are provided to attach the luminaire to the crook arm or swept arm mounting.

All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Module includes a driver, LifeShield[™] temperature control device and surge protector. Electrical module attaches to housing with key hole slots, accessible by opening the lens frame and removing optical module. Driver is rated for -40°F starting and has a 0-10V dimming interface for multi-level illumination options.

Precision, replaceable PicoEmitters are positioned to achieve directional control toward desired task. The entire EmitterDeck[®] fastens to the housing as a one-piece module.

TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray[™], Platinum Silver, or White. Custom colors are available.

Listed To: UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires.

Kim Lighting warrants Era LED products ("Product(s)") sold by Kim Lighting to be free from defects in material and workmanship for (i) a period of five (5) years for metal parts, (ii) a period of ten (10) years for exterior housing paint finish(s), (iii) a period of six (6) years for LED Light Engines (PicoEmitter reflectors) and, (iv) a period of five (5) years for LED power components (LED Driver, LifeShield[®] temperature control device, surge protector), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product.

Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious injury.



HUBBELL LIGHTING, INC.

U.S. Patent D430,687

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



Job Name:
Kanawha Plaza

Catalog Number:
RA25-4-E35-120L-3K-X-BL-LS/
HA02L
Notes:

Type:
A4
LV - CENTRAL15-17875



RA25
25" Era® PicoEmitter™ LED
revision 9/10/14 • kl_ra25eled_spec.pdf

Type:

Job:

Page: 2 of 6



Standard Features

Mounting

Plan View:

1.5
 1A

3.0
 2B

4.5
 3Y

5.2
 4C

N/A
 1W

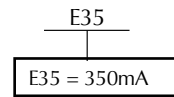
NOTE: 1A, 2B, 3Y and 4C mounting arms are part of the Pole Assembly. 1W Wall Mount arm is **not** included and must be ordered separately. See page 4 for styles and ordering information.

Fixture

Cat. No. designates fixture and optic

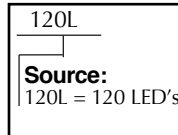


- Distribution:**
- 1 = Type I Full Cutoff
 - 2 = Type II Full Cutoff
 - 3 = Type III Full Cutoff
 - 4 = Type IV Full Cutoff
 - 5 = Type V Square Full Cutoff
 - L = Type L Left Full Cutoff
 - R = Type R Right Full Cutoff



Electrical Module

Cat. Nos. for Electrical Modules available:



- Color Temperature:**
- 3K = 3000K
 - 4K = 4200K
 - 5K = 5100K
 - 2K = 580nm - Amber

- Voltage:**
- 120 = 120V
 - 208 = 208V
 - 240 = 240V
 - 277 = 277V
 - 347 = 347V
 - 480 = 480V

SELECT VOLTAGE

Finish

TGIC powder coat

- Color: Black Dark Bronze Light Gray Stealth Gray Platinum Silver White Custom Color¹
- Cat. No.: BL DB LG SG PS WH CC

¹Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____

0-10V Dimming Interface

Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems including Hubbell Building Automation wiHUBB™. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming lead.





Job Name:
Kanawha Plaza

Catalog Number:
RA25-4-E35-120L-3K-X-BL-LS/
HA02L
Notes:

Type:
A4
LV - CENTRAL15-17875



RA25
25" Era® PicoEmitter™ LED
revision 9/10/14 • kl_ra25eled_spec.pdf

Type:

Job:

Page: 5 of 6



Arm Options

Arms **Note:** Wall mount arm is **not** included and must be ordered separately. Refer to Kim Lighting's Arms and Poles Selection Guide for complete details.

Mtg.	Post Top Crook			Side Pole Crook			Post Top Swept Cast Arm		
	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.
1A	<input type="checkbox"/> HA01L	<input type="checkbox"/> HA01L-TM1	—	<input type="checkbox"/> HA02L	<input type="checkbox"/> HA02L-TM1	<input type="checkbox"/> HA02S-W	<input type="checkbox"/> HA03L	<input type="checkbox"/> HA03L-TM1	—
2B	—	—	—	—	<input type="checkbox"/> HA02L-TM2	—	—	<input type="checkbox"/> HA03L-TM2	—
3Y	—	—	—	—	<input type="checkbox"/> HA02L-TM3	—	—	<input type="checkbox"/> HA03L-TM3	—
4C	—	—	—	—	<input type="checkbox"/> HA02L-TM4	—	—	<input type="checkbox"/> HA03L-TM4	—

Mtg.	Side Pole Swept Cast Arm			Side Pole S-Shaped Up Cast Arm		
	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.
1A	<input type="checkbox"/> HA11L	<input type="checkbox"/> HA11L-TM1	<input type="checkbox"/> HA11L-W	<input type="checkbox"/> HA12L	<input type="checkbox"/> HA12L-TM1	<input type="checkbox"/> HA12L-W
2B	—	<input type="checkbox"/> HA11L-TM2	—	—	<input type="checkbox"/> HA12L-TM2	—
3Y	—	<input type="checkbox"/> HA11L-TM3	—	—	<input type="checkbox"/> HA12L-TM3	—
4C	—	<input type="checkbox"/> HA11L-TM4	—	—	<input type="checkbox"/> HA12L-TM4	—

Mtg.	Side Pole Neo-Classic Arm			Side Pole Arm w/Top Scroll			Side Pole Ribbon Arm w/Top Gusset		
	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.
1A	<input type="checkbox"/> HA14L	<input type="checkbox"/> HA14L-TM1	<input type="checkbox"/> HA14L-W	<input type="checkbox"/> HA31L	<input type="checkbox"/> HA31L-TM1	<input type="checkbox"/> HA31L-W	<input type="checkbox"/> HA33L	<input type="checkbox"/> HA33L-TM1	<input type="checkbox"/> HA33L-W
2B	—	<input type="checkbox"/> HA14L-TM2	—	—	<input type="checkbox"/> HA31L-TM2	—	—	<input type="checkbox"/> HA33L-TM2	—
3Y	—	<input type="checkbox"/> HA14L-TM3	—	—	<input type="checkbox"/> HA31L-TM3	—	—	<input type="checkbox"/> HA33L-TM3	—
4C	—	<input type="checkbox"/> HA14L-TM4	—	—	<input type="checkbox"/> HA31L-TM4	—	—	<input type="checkbox"/> HA33L-TM4	—

Mtg.	Side Pole Ribbon Arm w/Top Brace			Side Pole Ribbon Arm w/Top Brace & Bottom Scroll			Side Pole Ribbon Arm w/Top Brace & Bottom Gusset		
	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.
1A	<input type="checkbox"/> HA35L	<input type="checkbox"/> HA35L-TM	<input type="checkbox"/> HA35L-W	<input type="checkbox"/> HA37L	<input type="checkbox"/> HA37L-TM	<input type="checkbox"/> HA37L-W	<input type="checkbox"/> HA38L	<input type="checkbox"/> HA38L-TM	<input type="checkbox"/> HA38L-W
		Consult factory for other mtgs.	Consult factory for other mtgs.		Consult Factory for other mtgs	Consult Factory for other mtgs		Consult Factory for other mtgs	Consult Factory for other mtgs

Arm Finial: HA F2 - Traditional style finial available to close off mounting hub opposite the fixture.
 *Not available on arm where indicated.





Job Name:
Kanawha Plaza

Catalog Number:

RA25-4-E35-120L-3K-X-BL-LS/
HA02L
Notes:

Type:

A4

LV - CENTRAL15-17875



KIM LIGHTING

RA25

25" Era[®] PicoEmitter[™] LED
revision 9/10/14 • kl_ra25eled_spec.pdf

Type:

Job:

Page: 6 of 6



Lumen Performance Charts

Spectroradiometric			
	3000K Average	4200K Average	5100K Average
Correlated Color Temp. CCT (K)	2800K-3175K	3800K-4600K	4600K-5600K
Color Rendering Index (CRI)	≤80	≤80	≤70
Power Factor	>.90	>.90	>.90

Projected Lumen Maintenance		
mA	100,000 hrs	(Calculated L70)
350	93.96%	675,000 Hrs.

Electrical Drive Current		
Volts - AC	Amps - AC	System Watts
120	1.05	126
208	0.61	126
240	0.53	126
277	0.45	126
347	0.36	126
480	0.26	126

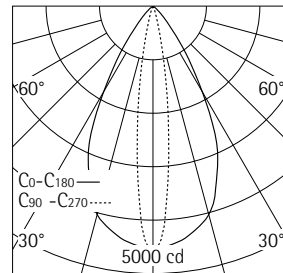
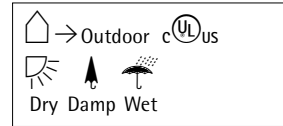
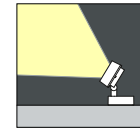
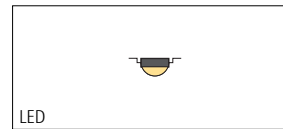
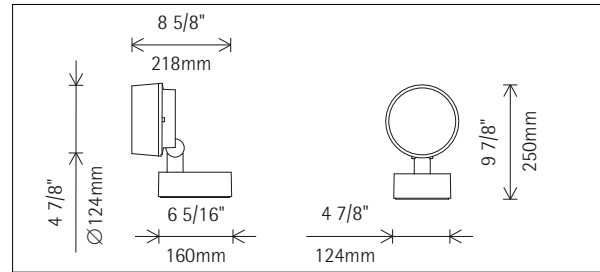
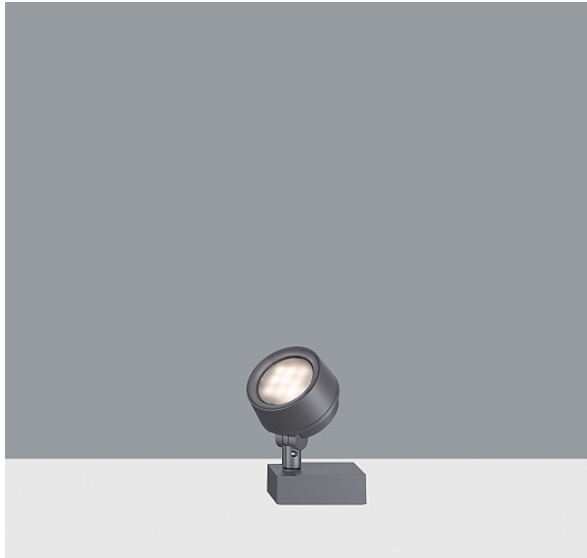
B.U.G. Rating (TM15) in Lumens when B = Backlight, U = Uplight, G = Glare								
Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	TBD	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B1 U0 G2	B3 U0 G1	TBD
4200K	TBD	B3 U0 G3	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B3 U0 G2	TBD
5100K	TBD	B3 U0 G3	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B3 U0 G2	TBD

Absolute Lumens								
Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	TBD	8181	7999	6556	7970	6670	8438	TBD
4200K	TBD	10298	10070	8253	10034	8397	10622	TBD
5100K	TBD	11296	11046	9053	11006	9210	11651	TBD

LED performance and lumen output continues to improve at a rapid pace. Log onto www.kimlighting.com to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

ERCO

Gecko Floodlight



LED 18W 1800lm 3000K warm white

h(ft)	E(fc)	D	
		C0	C90
3	509	3'1"	0'9"
6	127	6'3"	1'7"
9	57	9'4"	2'4"
12	32	12'6"	3'2"
15	20	15'7"	3'11"

34124.023 Graphit m
LED 18W 1800lm 3000K warm white
Dimmable
Version 7
Connected load 22W
Spherolit lens, oval flood

Product description

Housing, hinge and mounting plate: corrosion-resistant, cast aluminum, No-Rinse surface treatment. Double powder-coated. Optimized surface for reduced accumulation of dirt. Hinge with scale and internal wiring. Housing 130° tilttable, rotatable through 360°.

Electronic control gear, 60Hz, 120V dimmable, 277V switchable. 2 cable entries. Through-wiring possible. 3-pole terminal block.

LED module: high-power LEDs on metal-core PCB. SDCM<2. CRI>90. L80/B10 50000h. Collimating lens made of optical polymer. Lens rotatable through 360°.

Compact light head with non-reflecting safety glass. Corrosion-resistant cast aluminum, double powder-coated.

Suitable for wet location (IP65): dust-proof and water jet-proof.

120V: Dimming with external dimmers possible (trailing edge).

Weight 5.51lbs / 2.50kg

Available from 2nd quarter 2015

ERCO Lighting Inc.
160 Raritan Center Parkway
Suite 10
Edison, NJ 08837
USA
Tel.: +1 732 225 8856
Fax: +1 732 225 8857
info.us@erco.com

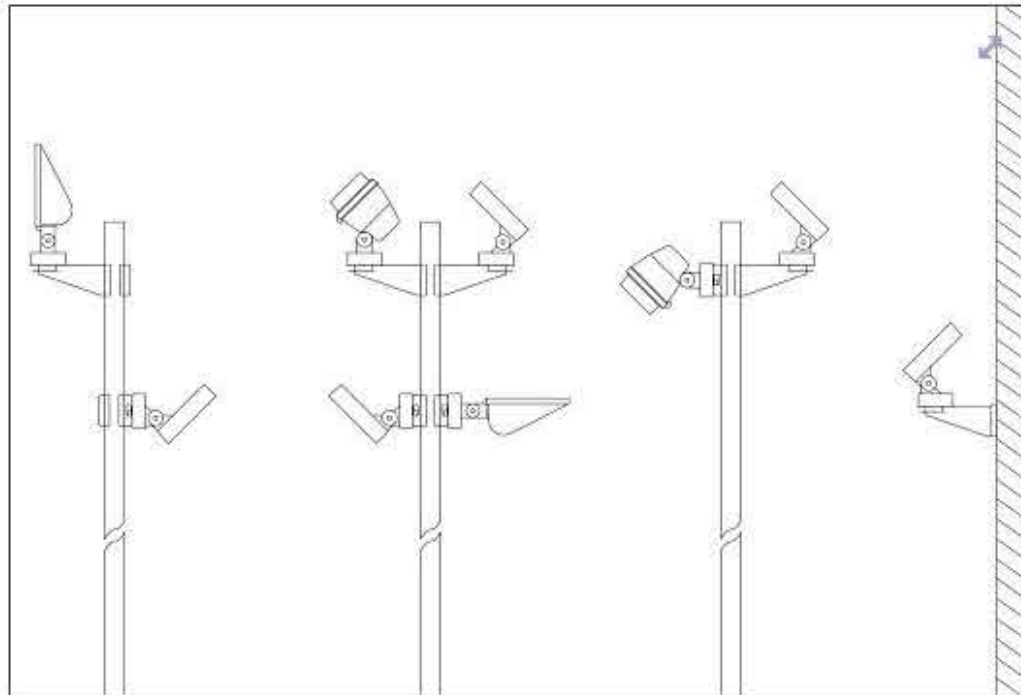
Technical region: 120V/60Hz, 277V/60Hz

We reserve the right to make technical and design changes.

Edition: 25.02.2015

Current version under

www.erco.com/34124.023



Flexible infrastructure

An entirely re-defined range of accessories for projectors, floodlights and wallwashers in the outdoor area features a practical clamping mechanism to ensure mounting without drilling into the poles. The clamping plate is suitable for dimensions with a diameter of 60-89mm. It is used to attach the attachment for direct mounting of the luminaire on the pole or for the traverse to fix luminaires tilting backwards. The traverse may also be attached directly to walls or façades. The accessories are suitable for all fixture sizes of Lightscan, Beamer and Parscoop.



Job Name:
Kanawha Plaza

Catalog Number:

RA17-2-E35-60L-3K-X-BL-LS/HA02S

Type:

C2

Notes:

LV - CENTRAL15-17875



KIM LIGHTING

RA17

17" Era® PicoEmitter™ LED
revision 9/10/14 • kl_ra17eled_spec.pdf

Type:

Job:

Catalog number:

/ / / / /
 Mtg Fixture Electrical Module Finish Options
 See page 2 See page 3-4 Pole & Arm*

*Select pole and arm from Kim **Arms and Poles Selection Guide**. If pole is provided by others, indicate O.D. for arm fitting. Arm Options are also shown on page 5.

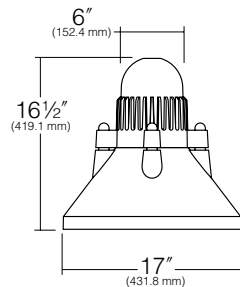
Approvals:

Date:

Page: 1 of 6

Specifications

17" Diameter
60 Light Emitting Diodes
Total System Watts = 68W



Housing: The Ballast Housing is a one-piece die-cast, low copper (<0.6% Cu) aluminum alloy component with integral cooling fins. The Reflector Housing is one-piece die-cast, low copper (<0.6% Cu) aluminum alloy. The Ballast Housing attaches to the Reflector Housing with stainless steel fasteners and is sealed with a silicone gasket.

Lens Frame: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy. Stainless steel hinges provided for attachment to the Reflector Housing. Stainless steel threaded fasteners provide easy access, concealed from normal view. The 3/16" thick clear flat lens seals against the reflector flange by a one-piece extruded silicone gasket with fused seam, to produce a fully sealed optical chamber.

Mounting: Stainless steel bolts are provided to attach the luminaire to the crook arm or swept arm mounting.

Electronic Module: All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Module includes a driver, LifeShield® temperature control device and surge protector. Electrical module attaches to housing with key hole slots, accessible by opening the lens frame and removing optical module. Driver is rated for -40°F starting and has a 0-10V dimming interface for multi-level illumination options.

Optical Module: Precision, replaceable PicoEmitters are positioned to achieve directional control toward desired task. The entire EmitterDeck® mounting assembly fastens to the housing as a one-piece module.

Finish/Color: TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray, Platinum Silver, or White. Custom colors are available.

Listed To: UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires.

Warranty: Kim Lighting warrants Era LED products ("Product(s)") sold by Kim Lighting to be free from defects in material and workmanship for (i) a period of five (5) years for metal parts, (ii) a period of ten (10) years for exterior housing paint finish(s), (iii) a period of six (6) years for LED Light Engines (PicoEmitter®) and, (iv) a period of five (5) years for LED power components (LED Driver, LifeShield temperature control device, surge protector), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious injury.



HUBBELL LIGHTING, INC.

U.S. Patent D430,687

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



Job Name:
Kanawha Plaza

Catalog Number:

RA17-2-E35-60L-3K-X-BL-LS/HA02S

Type:**C2**

Notes:

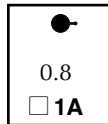
LV - CENTRAL15-17875

**KIM LIGHTING****RA17**

17" Era® PicoEmitter™ LED
revision 9/10/14 • kl_ra17eled_spec.pdf

Type:**Job:****Page: 2 of 6****Standard Features****Mounting**

Plan View:



EPA 17":

0.8

1.6

2.4

2.8

n/a

Cat. No.:

 1A **2B** **3Y** **4C** **1W**

NOTE: **1A, 2B, 3Y** and **4C** mounting arms are part of the Pole Assembly. **1W** Wall Mount arm is **not** included and must be ordered separately. See page **4** for styles and ordering information.

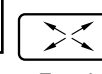
Fixture

Cat. No. designates fixture and optic

**Distribution:**

- 1 = Type I Full Cutoff
 2 = Type II Full Cutoff
 3 = Type III Full Cutoff
 4 = Type IV Full Cutoff
 5 = Type V Square Full Cutoff
 L = Type L Left Full Cutoff
 R = Type R Right Full Cutoff

Light Distribution:



Type I



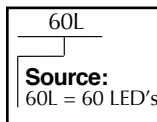
Type II



Type III

Type IV
Forward
ThrowType V
SquareType R
RightType L
Left**Electrical Module**

Cat. Nos. for Electrical Modules available:



xK

Color Temperature:

- 3K = 3000K
 4K = 4200K
 5K = 5100K
 2K = 580nm - Amber

x

Voltage:

- 120 = 120V
 208 = 208V
 240 = 240V
 277 = 277V
 347 = 347V¹
 480 = 480V¹

SELECT VOLTAGE

¹Due to current unavailability of 347V and 480V drivers, specification of these voltages may feature an integral step-down transformer.

Finish

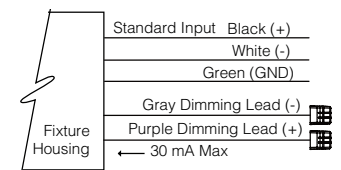
TGIC powder coat

Color: **Black** Dark Bronze Light Gray Stealth Gray Platinum Silver White Custom Color²Cat. No.: **BL** **DB** **LG** **SG** **PS** **WH** **CC**

²Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____

0-10V Dimming Interface

Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems including Hubbell Building Automation wiHUBB™. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming lead.





Job Name:
Kanawha Plaza

Catalog Number:

RA17-2-E35-60L-3K-X-BL-LS/HA02S

Type:**C2**

Notes:

LV - CENTRAL15-17875

**KIM LIGHTING****RA17**

17" Era® PicoEmitter™ LED
revision 9/10/14 • kl_ra17eled_spec.pdf

Type:**Job:****Page: 5 of 6****Arm Options****Arms**

Note: Wall mount arm is **not** included and must be ordered separately. Refer to Kim Lighting's Arms and Poles Selection Guide for complete details.

Mtg.	Post Top Crook			Side Pole Crook			Post Top Swept Cast Arm		
	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.
1SA	<input type="checkbox"/> HA01S	<input type="checkbox"/> HA01S-TM1	—	<input type="checkbox"/> HA02S	<input type="checkbox"/> HA02S-TM1	<input type="checkbox"/> HA02S-W	<input type="checkbox"/> HA03S	<input type="checkbox"/> HA03S-TM1	—
2SB	—	—	—	—	<input type="checkbox"/> HA02S-TM2	—	—	<input type="checkbox"/> HA03S-TM2	—
3SY	—	—	—	—	<input type="checkbox"/> HA02S-TM3	—	—	<input type="checkbox"/> HA03S-TM3	—
4SC	—	—	—	—	<input type="checkbox"/> HA02S-TM4	—	—	<input type="checkbox"/> HA03S-TM4	—

Mtg.	Side Pole Swept Cast Arm			Side Pole S-Shaped Up Cast Arm		
	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.
1SA	<input type="checkbox"/> HA11S	<input type="checkbox"/> HA11S-TM1	<input type="checkbox"/> HA11S-W	<input type="checkbox"/> HA12S	<input type="checkbox"/> HA12S-TM1	<input type="checkbox"/> HA12S-W
2SB	—	<input type="checkbox"/> HA11S-TM2	—	—	<input type="checkbox"/> HA12S-TM2	—
3SY	—	<input type="checkbox"/> HA11S-TM3	—	—	<input type="checkbox"/> HA12S-TM3	—
4SC	—	<input type="checkbox"/> HA11S-TM4	—	—	<input type="checkbox"/> HA12S-TM4	—

Mtg.	Side Pole Neo-Classic Arm			Side Pole Arm w/Top Scroll			Side Pole Ribbon Arm w/Top Gusset		
	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.
1SA	<input type="checkbox"/> HA14S	<input type="checkbox"/> HA14S-TM1	<input type="checkbox"/> HA14S-W	<input type="checkbox"/> HA31S	<input type="checkbox"/> HA31S-TM1	<input type="checkbox"/> HA31S-W	<input type="checkbox"/> HA33S	<input type="checkbox"/> HA33S-TM1	<input type="checkbox"/> HA33S-W
2SB	—	<input type="checkbox"/> HA14S-TM2	—	—	<input type="checkbox"/> HA31S-TM2	—	—	<input type="checkbox"/> HA33S-TM2	—
3SY	—	<input type="checkbox"/> HA14S-TM3	—	—	<input type="checkbox"/> HA31S-TM3	—	—	<input type="checkbox"/> HA33S-TM3	—
4SC	—	<input type="checkbox"/> HA14S-TM4	—	—	<input type="checkbox"/> HA31S-TM4	—	—	<input type="checkbox"/> HA33S-TM4	—

Mtg.	Side Pole Ribbon Arm w/Top Brace			Side Pole Ribbon Arm w/Top Brace & Bottom Scroll			Side Pole Ribbon Arm w/Top Brace & Bottom Gusset		
	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.	Arm	Tenon Mt.	Wall Mt.
1SA	<input type="checkbox"/> HA35S	<input type="checkbox"/> HA35S-TM	<input type="checkbox"/> HA35S-W	<input type="checkbox"/> HA37S	<input type="checkbox"/> HA37S-TM	<input type="checkbox"/> HA37S-W	<input type="checkbox"/> HA38S	<input type="checkbox"/> HA38S-TM	<input type="checkbox"/> HA38S-W
		Consult factory for other mtgs.	Consult factory for other mtgs.		Consult Factory for other mtgs	Consult Factory for other mtgs		Consult Factory for other mtgs	Consult Factory for other mtgs

Arm Finial:

HAF2 - Traditional style finial available to close off mounting hub opposite the fixture.
¹Not available on arm where indicated.





Job Name:
Kanawha Plaza

Catalog Number:

RA17-2-E35-60L-3K-X-BL-LS/HA02S

Type:**C2**

Notes:

LV - CENTRAL15-17875

**KIM LIGHTING****RA17**

17" Era® PicoEmitter™ LED
revision 9/10/14 • kl_ra17eled_spec.pdf

Type:**Job:****Page: 6 of 6**

Lumen Data

Spectroradiometric			
	3000K Average	4200K Average	5100K Average
Correlated Color Temp. CCT (K)	2800K-3175K	3800K-4600K	4600K-5600K
Color Rendering Index (CRI)	≤80	≤80	≤70
Power Factor	>.90	>.90	>.90

Projected Lumen Maintenance		
mA	100,000 hrs	(Calculated L70)
350	94.63%	783,000 Hrs.

Electrical Drive Current		
Volts - AC	Amps - AC	System Watts
120	0.57	68
208	0.33	68
240	0.28	68
277	0.25	68
347	0.20	68
480	0.14	68

B.U.G. Rating (TM15) in Lumens wher B = Backlight, U = Uplight, G = Glare								
Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	B2 U0 G2	B1 U0 G1	B1 U0 G1	B1 U0 G1	B1 U0 G1	B0 U0 G1	B2 U0 G1	TBD
4200K	B3 U0 G3	B2 U0 G2	B1 U0 G1	B1 U0 G1	B1 U0 G2	B1 U0 G1	B3 U0 G1	TBD
5100K	B3 U0 G3	B2 U0 G2	B1 U0 G1	B1 U0 G1	B1 U0 G2	B1 U0 G1	B3 U0 G1	TBD

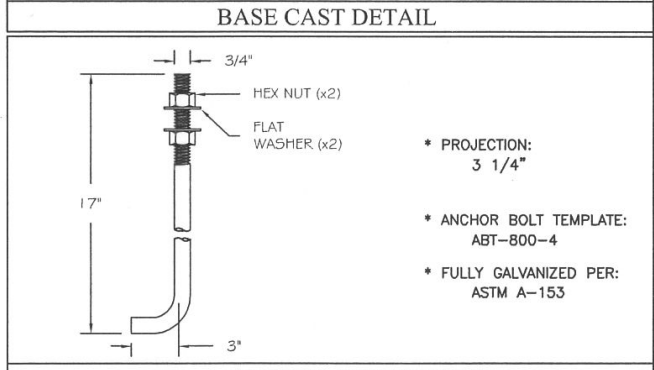
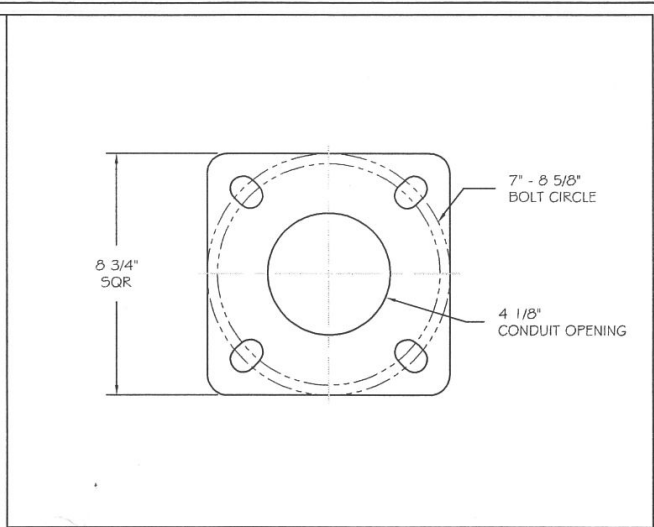
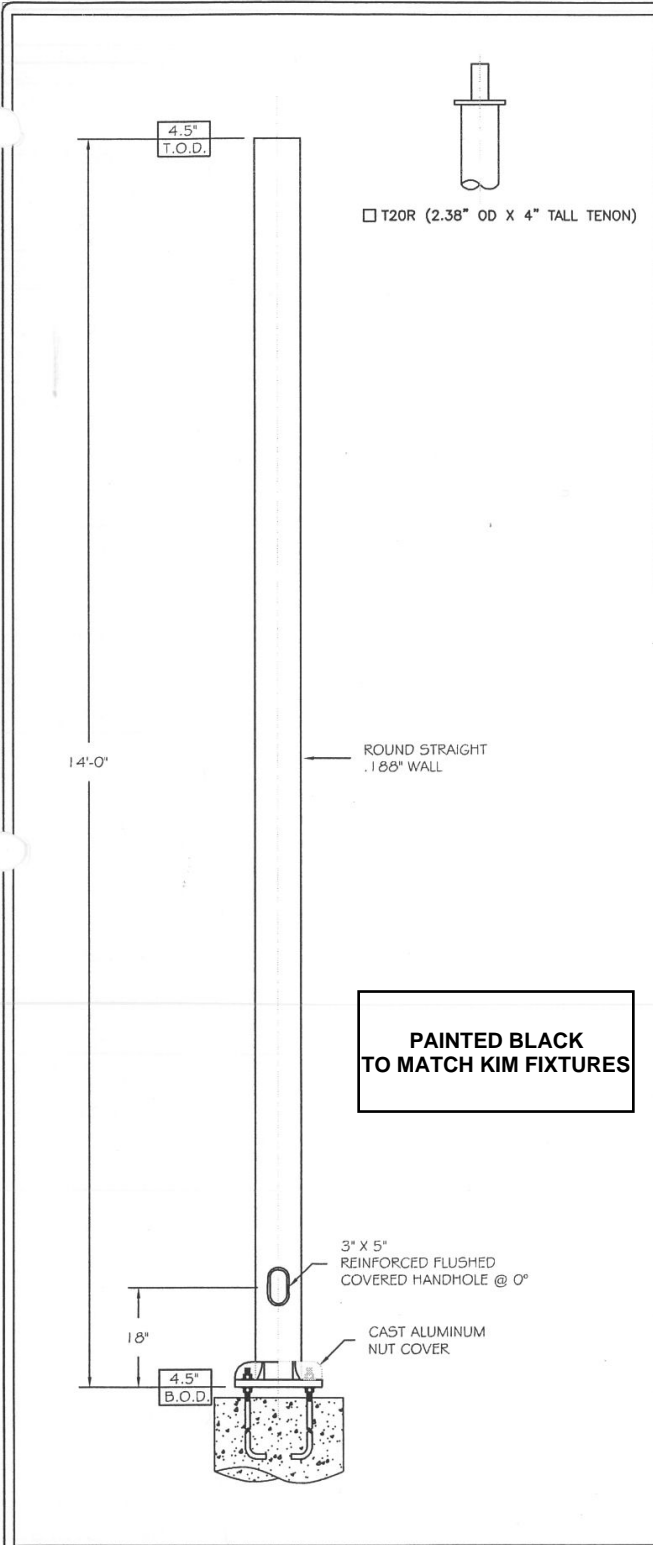
Absolute Lumens								
Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	4236	4343	4312	3563	4353	3613	4356	TBD
4200K	5298	5432	5393	4456	5444	4519	5447	TBD
5100K	5851	5999	5956	4921	6012	4991	6016	TBD

LED performance and lumen output continues to improve at a rapid pace. Log onto www.kimlighting.com to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.



Job Name:
Kanawha Plaza

Notes:
LV - CENTRAL15-17875



LOADING CHART

WIND (MPH)	80	90	100	110
EPA	11.4	8.6	6.8	5.4
WEIGHT	150	150	150	150

SPECIFICATIONS

COMPONENT	SPECIFICATION
POLE SHAFT	6063 - ALLOY ALUMINUM
BASE CAST	A356 ALLOY ALUMINUM
ANCHOR BOLTS	ASTM F-1554 GRADE 55

- GENERAL NOTES**
1. ALUMINUM TUBE SHALL BE HEAT TREATED TO T6 TEMPER.
 2. POLE ASSEMBLY TO BE PAINTED AND WRAPPED.
 3. DESIGN WIND SPEEDS IN LOADING CHART INCLUDE 1.3 GUST FACTOR.
 4. POLE DESIGN IS BASED AGAINST AASHTO 1994 STANDARDS.

(FOR APPROVAL)
BY: _____ DATE: _____



AMERICAN LITE POLE
2800 S. HULEN, SUITE 200
FORT WORTH, TX 76109
817-924-3682 PH.
817-924-7049 FAX

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REV. DATE BY REVISION DESCRIPTION
PROJECT NAME: **FOUNDRY PARK BRIDGE**

DESCRIPTION: **ROUND STRAIGHT 14' ALUMINUM**

SCALE: NONE	DATE: 11/30/10	DWG BY: BM
PO NUMBER:	QTY:	CHKD BY: CKR
DRAWING NUMBER: RNA-14-45-7-AB	REV: -	

Submitted by Lighting Virginia-Central

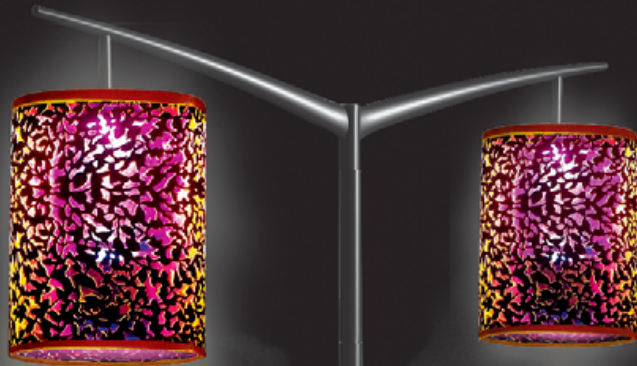


Job Name:
Kanawha Plaza

Catalog Number:
SCHREDER BOR-LHP3200-MT-XX-
XXX-RAL(SILVER)/A114-1-59
Notes:

Type:
L

LV - CENTRAL15-17875



BOREAL




URBIS
MEMBER OF SCHREDER GROUP GIE

NOBLE MATERIALS

The Boreal luminaire has a body made of cast aluminium and a clear acrylic wrap-around diffuser. The body is protected against corrosion by a baked polyester powder coating. The wrap-around diffuser is encircled by a stainless steel perforated mask. All parts inside the luminaire are made of aluminium.

SYMMETRICAL LIGHTING

The optical compartment provides a tightness level of IP 66. It has a refractor and upper reflector providing symmetrical lighting.

MASKS AND COLOURS

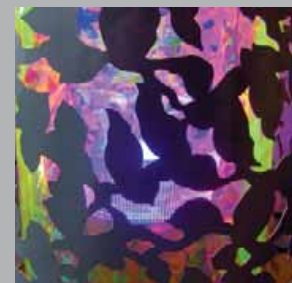
The Boreal luminaire is equipped with a perforated mask providing a spontaneous and festive effect.

Other types of masks are also available.

A dichroic filter placed inside the wrap-around diffuser permits the creation of coloured effects.

MAINTENANCE

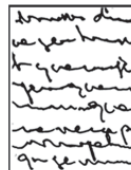
Access to the lamp and control gear is via three captive screws located under the luminaire. The control gear is mounted on a removable plate.



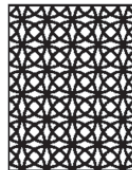
BRANCHES
MASK



HANDWRITING
MASK



CLASSIC
MASK



ABSTRACT
MASK



FOLIAGE
MASK





Job Name:
Kanawha Plaza

Catalog Number:
SCHREDER BOR-LHP3200-MT-XX-
XXX-RAL(SILVER)/A114-1-59

Notes:

Type:

L

LV - CENTRAL15-17875

BOREAL

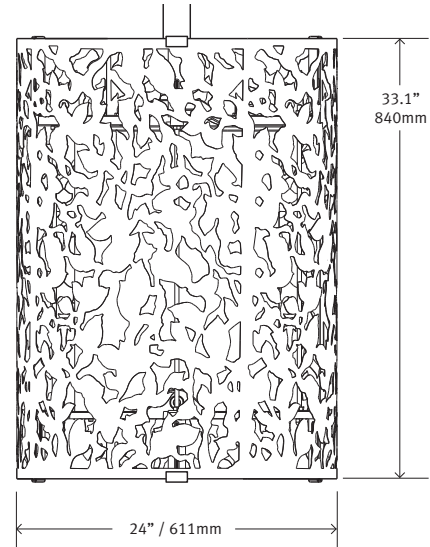
Type: _____ Quantity: _____ Approvals _____

Job: _____

Date: _____

Catalog Number: BOR • • • • • • • •
lamp type voltage dichroic filter drum pattern color mounting pole

Model	BOREAL
Dimensions	
Height	33.1 in/840mm
Diameter	24 in/611mm
EPA	2.15 sq ft/.20 m ²
Weight	66.1 lbs/30kg
IP rating	66
Light Source	
Metal Halide	70, 150 watt T-6



SPECIFICATIONS

- Housing:** Made of cast aluminum, 0.100" (254mm) minimum thickness with a mounting provision for attachment to the arm. The housing is attached to the arm with a threaded pipe connection and stainless steel set screws.
- Outer drum:** The outer drum is 316 alloy stainless steel with a lightly brushed finish. The drum is available in three standard mesh patterns. The drum is attached to the housing, on the top and bottom and can be removed.
- Lens:** A clear outer cylindrical acrylic lens is attached to the housing with a continuous silicone seal. The optical compartment is rated at IP66. The vertical lamp is placed at the center of the optical chamber, providing a symmetrical distribution, IES classification type 5.
- Filter:** A dichroic filter, blue or magenta, is located inside the lens to generate a colored moire effect.
- Lamp Access:** A gasketed removable cover is accessible at the bottom of the lens assembly.
- Electrical:** A terminal block is located in the lamp housing. Wires up to #8 can be terminated. A ground lug is also included. The lamp socket is porcelain, pulse rated 4kV G-12 base for use with a T-6 lamp.
- Ballast:** A high power factor, potted and enclosed ballast is mounted inside the pole. The ballast is dual voltage 120 or 277 volt.
- Finish:** The standard finish is a light sanded texture, black polyester powder coating. The finish provides a highly durable UV and salt spray resistant finish in accordance to the ASTM B117 standard and humidity proof in accordance with the ASTM D2247 standard.

Schröder



Job Name:
Kanawha Plaza

Catalog Number:
SCHREDER BOR-LHP3200-MT-XX-
XXX-RAL(SILVER)/A114-1-59
Notes:

Type:
L
LV - CENTRAL15-17875

BOREAL




Type: _____ Quantity: _____

Approvals

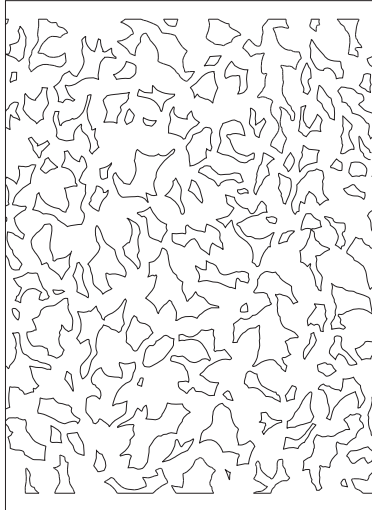
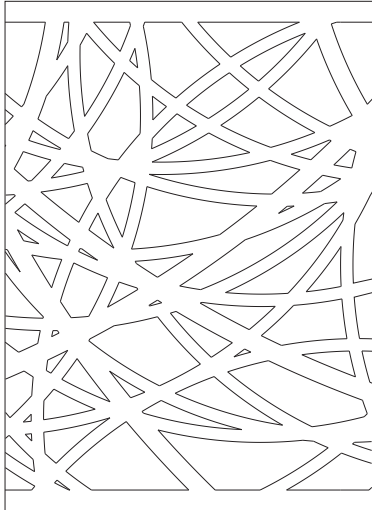
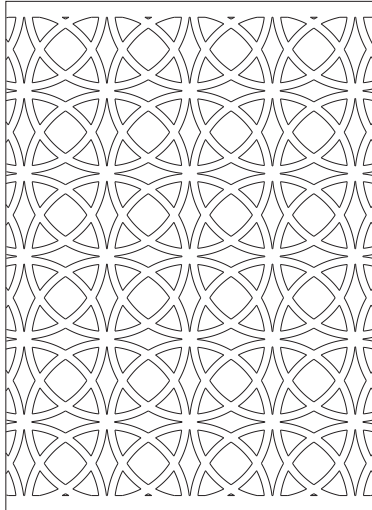
Job: _____

Date: _____

Catalog Number: BOR • • • • • • • •
lamp type voltage dichroic filter drum pattern color mounting pole

1	2	3	5
LAMP TYPE MH T6 - 70 70 watt metal halide T-6 lamp, G12 base  MH T6 - 150 150 watt metal halide T-6 lamp, G12 base  LHP-3200 LED 90W 8900lm 	VOLTAGE MT F-can ballast, in pole mounting. Dual voltage, 120 or 277 volt EUC-096S105DT(7) LED Dimmable-Driver (96W, 90-305Vac)	DICHROIC FILTER MG Magenta dichroic filter CY Cyan dichroic filter <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 10px;">SELECT FILTER</div>	POLE AND BRACKET COLOR SBK 200 Sand blast textured Black RAL (SILVER TBD) Provide four digit RAL color number CSC Custom color. Provide a color sample for matching and approval

SELECT DRUM PATTERN

DRUM MESH PATTERN		
FOM Foliage mesh pattern 	BRM Branches mesh pattern 	CIM Circles mesh pattern 





Job Name:
Kanawha Plaza

Catalog Number:
SCHREDER BOR-LHP3200-MT-XX-
XXX-RAL(SILVER)/A114-1-59
Notes:

Type:
L
LV - CENTRAL15-17875

BOREAL

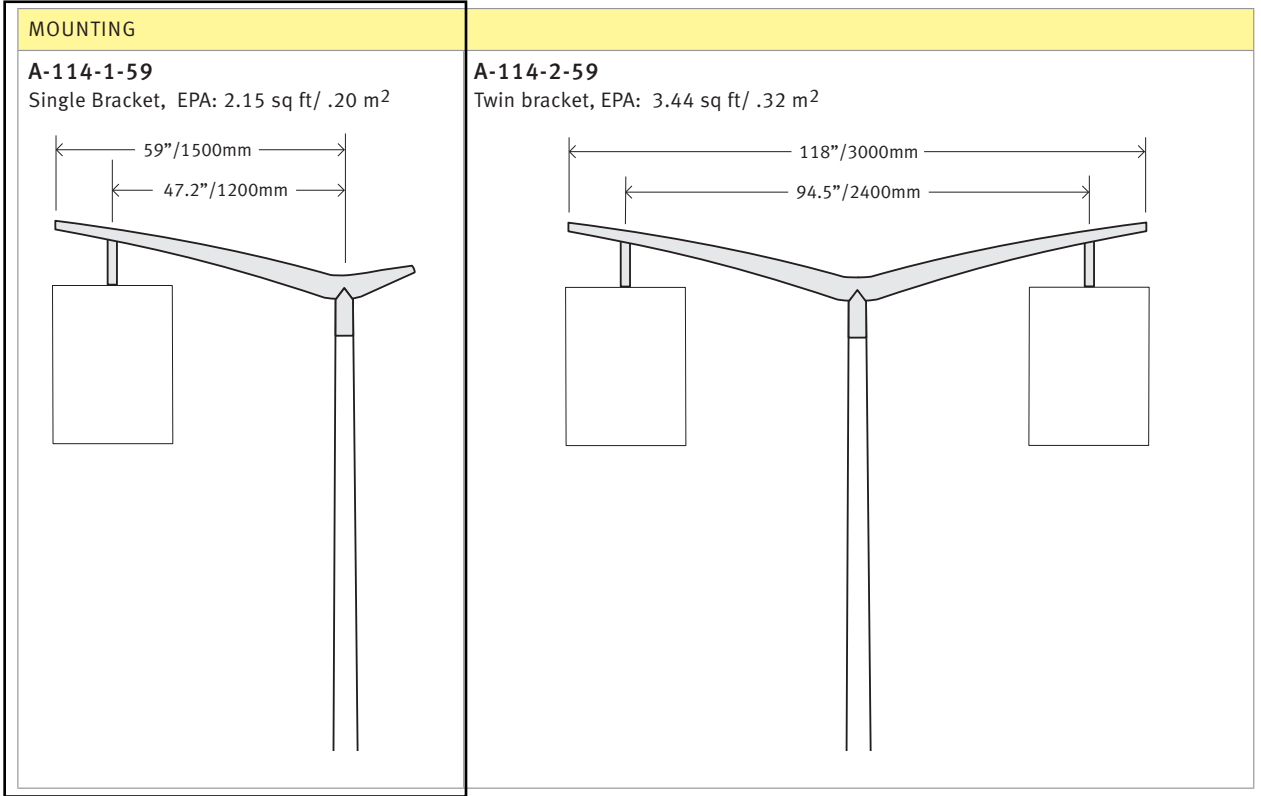
Type: _____ Quantity: _____ Approvals

Job: _____

Date: _____

Catalog Number: BOR • • • • •
lamp type voltage dichroic filter drum pattern color mounting pole

6



7

POLE
Refer to the Schröder pole guide.





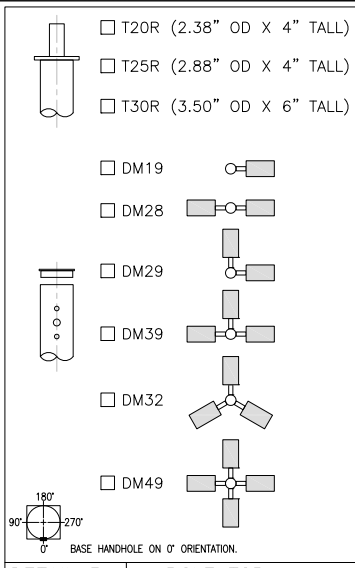
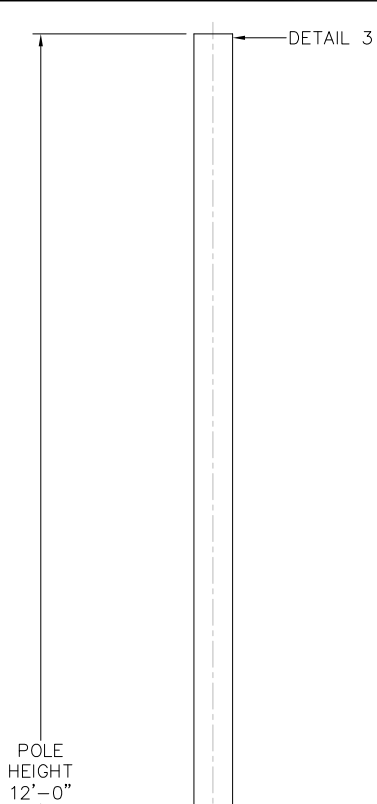
Job Name:
Kanawha Plaza

Catalog Number:
RNA-12-45-7-AB-PC(SILVER)-T20R

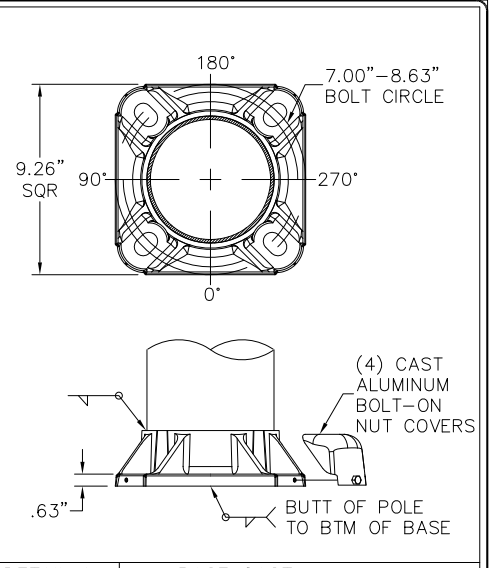
Type:
L POLE

Notes:

LV - CENTRAL15-17875



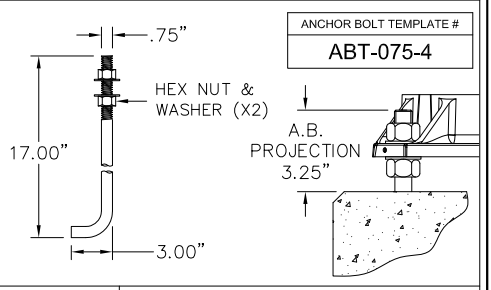
DETAIL 3 POLE TOP



DETAIL 1 BASE CAST

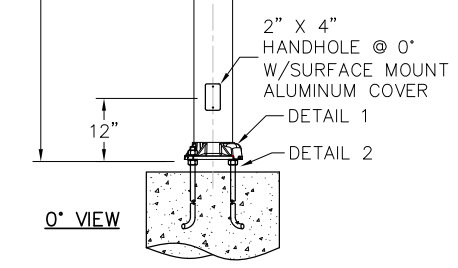
**PAINTED SILVER
TO MATCH SCHERDER
FIXTURES**

DETAIL 4



DETAIL 2 ANCHOR BOLT

POLE HEIGHT
12'-0"



- 1) POLE SHAFT IS EXTRUDED FROM SEAMLESS ALLOY ALUMINUM & TREATED TO PRODUCE A T6 TEMPER.
- 2) ALL ALUMINUM ALLOYS SHALL COMPLY WITH METALLURGICAL AND MECHANICAL PROPERTIES SET FORTH IN THE ALUMINUM ASSOCIATION STANDARDS.
- 3) ANCHOR BOLTS SHALL BE FULLY GALVANIZED PER ASTM A153.
- 4) PROVISIONS FOR GROUNDING LOCATED AT BASE HAND HOLE.
- 5) VIBRATION DISCLAIMER: ALTHOUGH RARE, VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN STRUCTURES OF ALL TYPES. BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES, VIBRATIONS ARE GENERALLY UNPREDICTABLE. THE USERS MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXCESSIVE VIBRATION AND EXAMINATION FOR ANY STRUCTURAL DAMAGE. ALP WARRANTY EXCLUDES FATIGUE FAILURE OR SIMILAR PHENOMENA RESULTING FROM INDUCED VIBRATION, HARMONIC OSCILLATION OR RESONANCE ASSOCIATED WITH MOVEMENT OF AIR CURRENTS AROUND THE POLE.

LOADING DATA							
DESIGN CRITERIA:	AASHTO LTS-3 1994						
WIND SPEED(mph)	80	90	100	110	120	130	140
EPA FT²	10.2	7.7	6.2	5.0	-	-	-
WEIGHT (lbs)	75	75	75	75	-	-	-
FINISH							
TBD							

MATERIAL DATA	
COMPONENT	ASTM
POLE SHAFT	6063-T4
BASE CAST	A356
ANCHOR BOLTS	F1554 GR.55

POLE DIMENSION DATA						
TYPE	DESIGN	POLE LENGTH (FT)	BASE DIA. (IN)	TOP DIA. (IN)	GAUGE OR THK (IN)	WEIGHT (LBS)
	RNA-12-45-7-AB	12'-0"	4.50	4.50	.188	41

DETAIL GENERAL NOTES



AMERICAN LITE POLE
2800 S. HULEN, SUITE 200
FORT WORTH, TX 76109
817-924-3682 PH.
817-924-7049 FAX

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REV. DATE BY REVISION DESCRIPTION
PROJECT NAME:

DESCRIPTION:
ROUND STRAIGHT ALUMINUM ANCHOR BASE
12' x 4.5" x .188"

PO NUMBER: DATE: DWG BY:
040214 BM

QUOTE NUMBER: SCALE: QTY: CHKD BY:
NTS CKR

DRAWING NUMBER: REV:
RNA-12-45-7-AB



Job Name:
Kanawha Plaza

Catalog Number:
L606W-AL

Notes:

Type:
S

LV - CENTRAL15-17875

COLE LIGHTING SUBMITTAL

JOB NAME _____

CATALOG NUMBER _____

Type _____

Steplites

L600 SERIES

SPECIFICATIONS

Construction

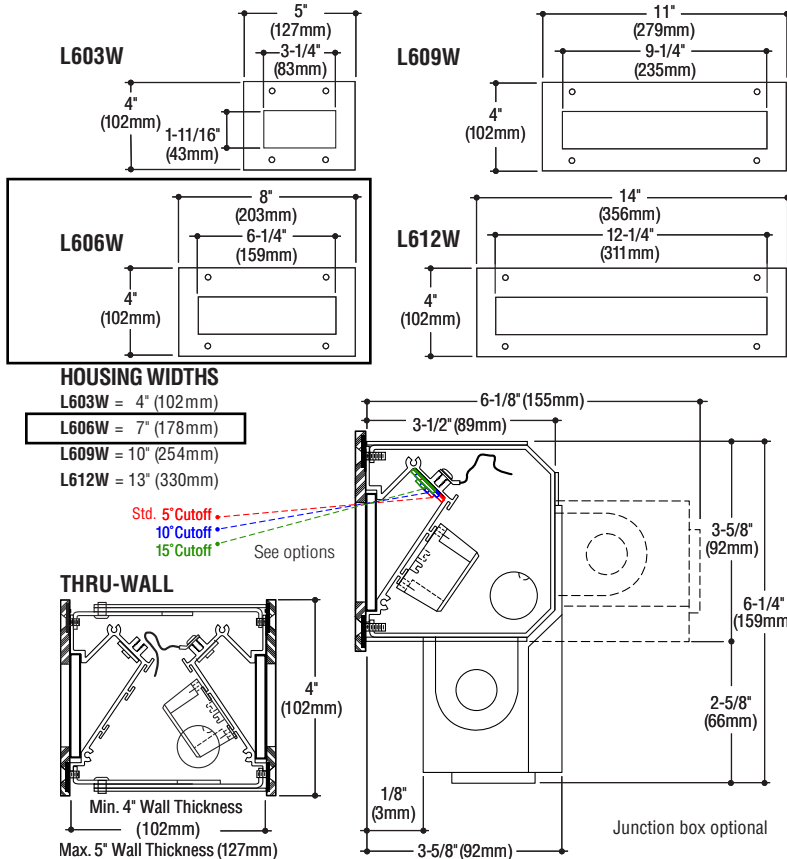
- Recessed housing is constructed from 16 gauge electro-galvanized steel, matte black powder coat finished
- Faceplates are 3/16" aluminum or stainless steel
- Aluminum faceplates are powder coated; Stainless steel are satin finished, passivated for maximum rust resistance
- Fixtures are furnished with stainless steel socket head tamperproof screws
- Diffuser is clear tempered glass, set in silicone sealant
- Internal baffle is coated matte black to eliminate glare
- Optional junction box is cast aluminum with polyester coating
- cETLus listed installation in any wall construction and suitable for wet locations in any wall construction.

Electrical

- Fixture is wired with high performance LEDs positioned for 5°, 10° or 15° cutoff (5° standard)
- Integral driver is universal voltage
- Housing provided with 1/2" conduit knockout on each side, suitable for 4 wire thru-wiring, 2 in 2 out
- Optional junction box allows 8 wire thru-wiring, 4 in 4 out. Provided with two 1/2" tapped conduit entrances in the bottom and one 1/2" tapped conduit entrance in each side.

Mounting

Housing has flange with holes for mounting. Thru-wall housings allow 1" of adjustment for varying wall thicknesses.



Catalog Number Lamp	Faceplate		Thru-Wall	
	Aluminum	Stainless Steel	Aluminum	Stainless Steel
LED 1.5W, (126 lm @ 3000°K)*	<input type="checkbox"/> L603W-AL	<input type="checkbox"/> L603W-N	<input type="checkbox"/> L603W-2S-AL	<input type="checkbox"/> L603W-2S-N
LED 3.6W, (215 lm @ 3000°K)*	<input type="checkbox"/> L603W-AL-HO	<input type="checkbox"/> L603W-N-HO	<input type="checkbox"/> L603W-2S-AL-HO	<input type="checkbox"/> L603W-2S-N-HO
LED 3.0W, (252 lm @ 3000°K)	<input checked="" type="checkbox"/> L606W-AL	<input type="checkbox"/> L606W-N	_____	_____
LED 7.2W, (430 lm @ 3000°K)	<input type="checkbox"/> L606W-AL-HO	<input type="checkbox"/> L606W-N-HO	_____	_____
LED 4.5W, (377 lm @ 3000°K)	<input type="checkbox"/> L609W-AL	<input type="checkbox"/> L609W-N	_____	_____
LED 10.8W, (645 lm @ 3000°K)	<input type="checkbox"/> L609W-AL-HO	<input type="checkbox"/> L609W-N-HO	_____	_____
LED 6.0W, (503 lm @ 3000°K)	<input type="checkbox"/> L612W-AL	<input type="checkbox"/> L612W-N	_____	_____
LED 14.4W, (860 lm @ 3000°K)	<input type="checkbox"/> L612W-AL-HO	<input type="checkbox"/> L612W-N-HO	_____	_____

*Indicated values for wattage doubled for thru-wall models.

Options

Bronze faceplate: Satin finished, clear coated.

Add suffix -B.

Junction box: Cast aluminum junction box.

Add suffix -J (Not available on L603 model).

Dimming: Universal voltage 0-10V driver. Add suffix -DIM. (Not available on L603 model)

Alternate faceplate color: Black or white.

Add suffix -BLK or -WHT.

Frosted glass diffuser: Tempered. Add suffix -FG.

Cutoff: 10° Add suffix -10° 15° Add suffix -15°.

K14

LED colors: 4000°K

(L603, 146 lm), (L603-HO, 249 lm),

(L606, 292 lm), (L606-HO, 498 lm),

(L609, 438 lm), (L609-HO, 747 lm),

(L612, 584 lm), (L612-HO, 995 lm). Add suffix -4K.

Amber. Add suffix -AMB. Blue. Add suffix -BLU.

NOTE: Amber and Blue not available in HO-2.

How to Specify

1. Select catalog number with desired features.

2. Add suffixes for options required to meet

job conditions.



C.W. Cole & Company, Inc.
 2560 N. Rosemead Boulevard
 South El Monte, CA 91733-1593

Tel. (626) 443-2473

Fax (626) 443-9253

info@colelighting.com

www.colelighting.com



Job:

Approval:

Type:

VISION-3

LIGHTING

MR16 Round Well Light **MODEL IG3**

12V, 20W Max., MR16 Halogen
12-24V, 10W or 12V, 12.5W LED

Specifications:

Housing: Cast C84400 bronze collar attached to an ABS plastic housing using 18-8 stainless steel hardware.

Lamp Holder: Machined 6061-T6 aluminum cap attached to a machined 6061-T6 aluminum body using one 18-8 stainless steel set screw, and sealed with a high temperature silicone O-ring. Cap and body are black anodized. Cap accepts up to three internal accessories, held in place by a stainless steel clip. Lamp holder is supplied with 6' of cable. Cable exit sealed with a water tight strain relief fitting.

Aiming: Lamp holder is attached to 304 stainless steel bracketry, allowing full 360° rotational, and ±29° (MR16 and 10W LED) or ±19° (12.5W LED) vertical aiming. Bracketry is mounted to cast C84400 bronze collar, allowing adjustment with faceplate removed. 18-8 stainless steel hardware locks lamp holder in place after adjustment.

Faceplate: Cast C84400 bronze faceplate mounts to aiming bracketry with 18-8 stainless steel hardware, ensuring that lens opening is properly aligned. The 1/4" tempered faceplate lens is secured to the faceplate with a high temperature, UV curing, silicone adhesive.

Finish: TGIC thermo set polyester powder coat paint available in 14 standard colors. Also available in three additional bronze finishes: Natural, Polished, and Aged.

Cap Lens: Tempered, clear lens, secured to cap with a high temperature, UV curing, silicone adhesive. Stepped, flush lens reduces collection of water and debris on the lens.

Socket: GY-6.35 porcelain socket with 600V, 250°C, PTFE coated 18 ga leads.

Lamps:

- 12 Volt bi-pin 20W MR16 halogen (See **Certification** heading).
- 12-24 Volt AC/DC, 10W LED with High/Low switch for 35W & 20W halogen equivalent outputs. Requires up to 13W at startup, which must be allowed for during system design.
- 12 Volt AC/DC, 12.5W LED with push button selection of 4 outputs (50W, 35W, 20W & 12W halogen equivalent). Requires up to 15W at startup, which must be allowed for during system design.

LED modules are field replaceable and feature replaceable lenses, an L70 of 60,000 hrs., dynamic transformer recognition, phase dimming (see Transformer and Dimmer Compatibility List), and patented LEDSense® thermal management.

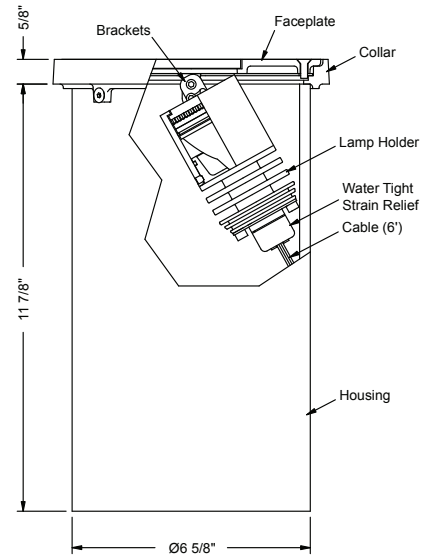
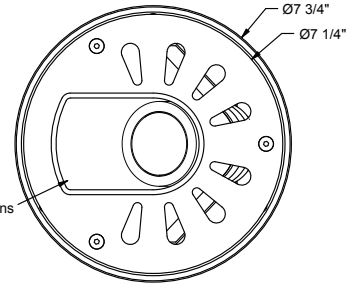
Certification: CSA tested & certified to US and Canadian safety standards for the following applications:

Wet location landscape use (UL1838):

IG3B - 20W Max. MR16 Halogen lamp.

10W LED & 12.5 LED can be used in all models and applications.

All ratings subject to change without notice. See web site or contact V3 for most current info.



Ordering Information:

IG3B		Lamp	Lens Accy ¹	Filter ¹	Louver ¹
Model	Finish				
IG3B - Cast Bronze	BL - Black	0 - None	0 - None	0 - None	0 - None
	BLT - Textured Black	LED 2,3:	L1 - Spread Lens	F1 - Red	H1 - Honeycomb Louver
	BN - Bronze	116 - 10W, 3000K, 12° ¹	L2 - Linear Lens	F2 - Blue	
	BNT - Textured Bronze	117 - 10W, 3000K, 21° ¹	L3 - Softening Lens	F3 - Light Blue	
	BAT - Textured Bark	118 - 10W, 3000K, 41°¹		F4 - Green	
	WI - White	119 - 12.5W, 3000K, 19°		F5 - Amber	
	GRT - Textured Green	120 - 12.5W, 3000K, 34°		F6 - Pink	
	SI - Silver	121 - 12.5W, 3000K, 60°		F7 - Mercury Vapor	
	GY - Grey	MR16 Halogen:			
	BE - Beige	01 - ESX, 20W, 12°			
	GNT - Textured Granite	02 - BAB, 20W, 40°			
	SAT - Textured Sand				
	PAT - Textured Patina				
	EAT - Textured Earth				
	NAT - Natural				
	POL - Polished				
	AGE - Aged				

SELECT FINISH

Notes:

1. Only two lens accessories can be used with 10W LED.
2. Only power LED with magnetic or V3 approved electronic transformers (contact V3 for transformer compatibility info).
3. LED available with other color temperatures as a special order. Consult your V3 sales rep.
4. Specifications, certifications, and ordering information are subject to change. Please check website for latest specification sheets.

Example: IG3B - NAT - 01 - 0 - F3 - H1



Job Name:
Kanawha Plaza

Catalog Number:
XM2-XXX-120-X

Notes:

Type:
T XFMR

LV - CENTRAL15-17875

Job:

Approval:

Type:

VISION-3

LIGHTING

Multi-Tap Transformer **MODEL XM2**
120 VAC, 100/300/600/900/1200 Watt Magnetic Transformers

Specifications:

100W version:

Construction: 100W landscape lighting transformer with two voltage outputs: 12V and 15V. 15V tap is provided to help reduce voltage drop and increase lamp brilliance. Packaged in a stainless steel NEMA style rain tight enclosure with enclosed wiring terminals and removable cover. Unit includes side wiring access through two 1/2" and 3/4" double knockouts, and one 1 1/4" and 1 1/2" double EKO on a swing down bottom. Optional features include removable timer and field installed or remote photocell.

Specifications:

- 100 Watt - single circuit output.
- NEMA style rain tight keyhole mount stainless steel enclosure.
- Wiring compartment with input and output terminals.
- Complete wiring instructions.
- 24-hour removable timer option.
- Field installed or remote photocell option.
- X-10 remote control compatible.
- 6' outdoor line cord.
- Two voltage output taps, 11 and 15 Volts.
- Low voltage circuit breaker.
- UL tested & certified to US and Canadian safety standards.

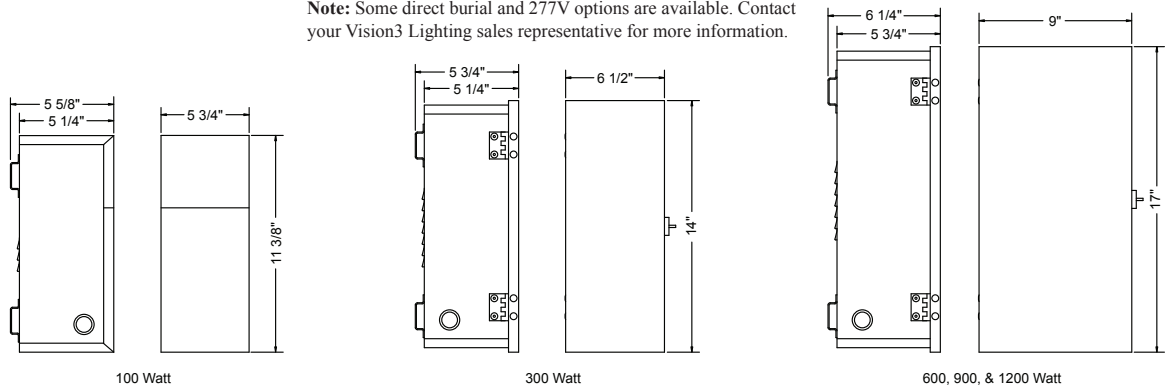
300W, 600W, 900W 1200W versions:

Construction: Landscape lighting transformer with multiple voltage outputs. Multi-tap output is from 11 to 15 Volts in 300, 600, 900, and 1200 Watts. Packaged in a stainless steel NEMA 3R rain tight enclosure with enclosed wiring terminals, hinged lockable cover and up to five 1/2" and 3/4" knockouts - bottom and side entry. Optional features include removable timer and field installed or remote photocell.

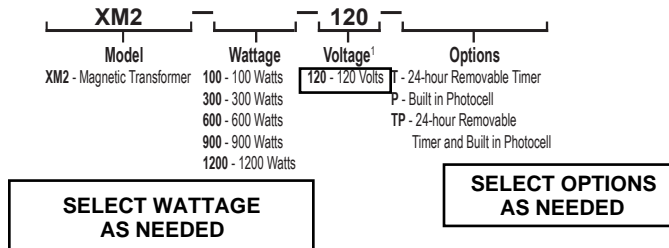
Specifications:

- 300 Watt - single circuit output. 600 Watt - dual circuit output. 900 Watt - 3 circuit output. 1200 Watt - 4 circuit output.
- NEMA style rain tight keyhole mount stainless steel enclosure.
- Wiring compartment with input and output terminals.
- Complete wiring instructions.
- 24-hour removable timer option.
- Field installed or remote photocell option.
- X-10 remote control compatible.
- 6' outdoor line cord.
- Multiple voltage output taps, 11-15 Volts.
- Low voltage circuit breaker. 1 circuit breaker per circuit on multiple circuit models.
- UL tested & certified to US and Canadian safety standards.

Note: Some direct burial and 277V options are available. Contact your Vision3 Lighting sales representative for more information.



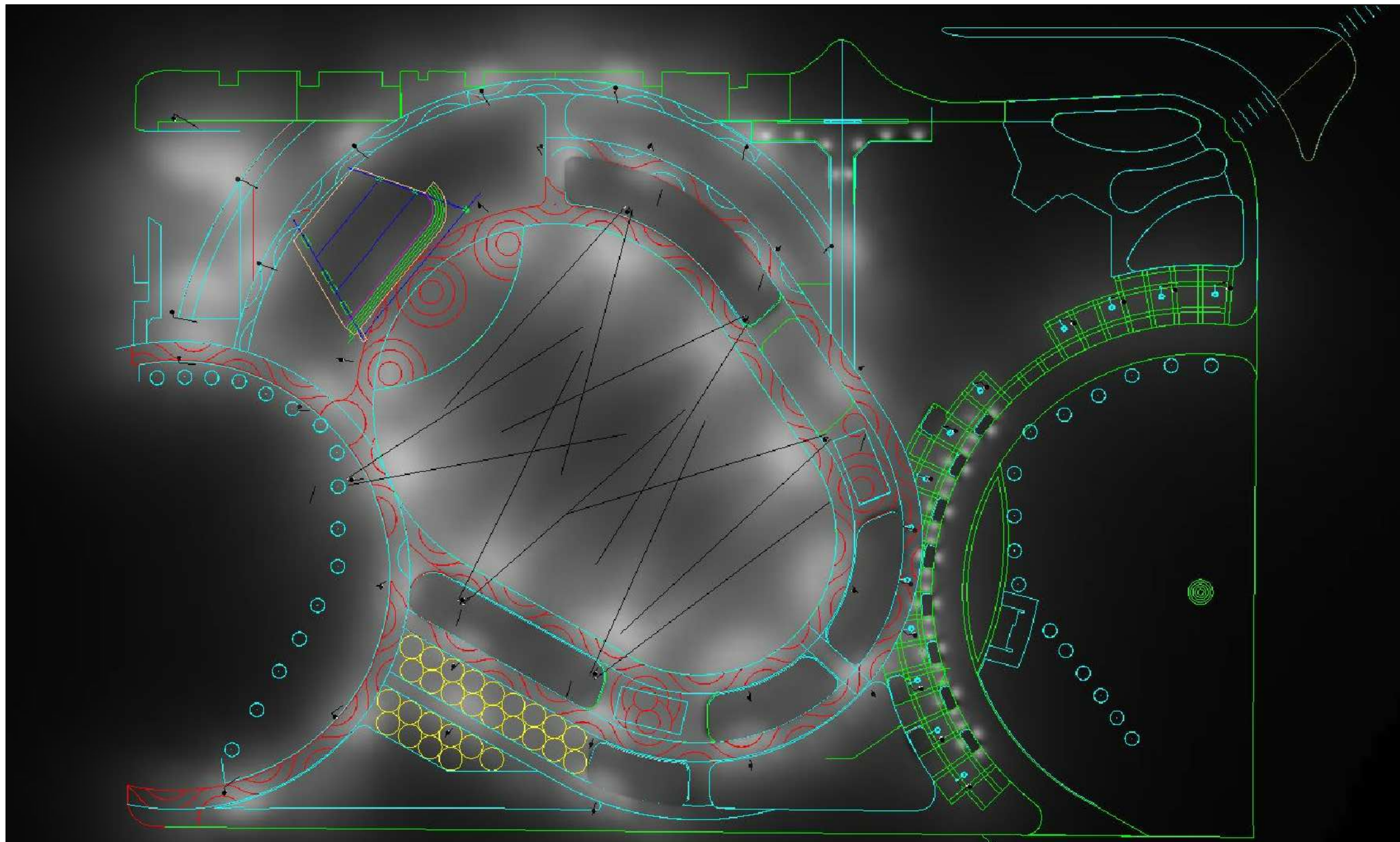
Ordering Information:



Notes:

1. Some direct burial and 277V options are available. Contact your Vision3 Lighting sales representative for more information.
2. Specifications, certifications, and ordering information are subject to change. Please check website for latest specification sheets.

Example: **XM2 - 600 - 120**



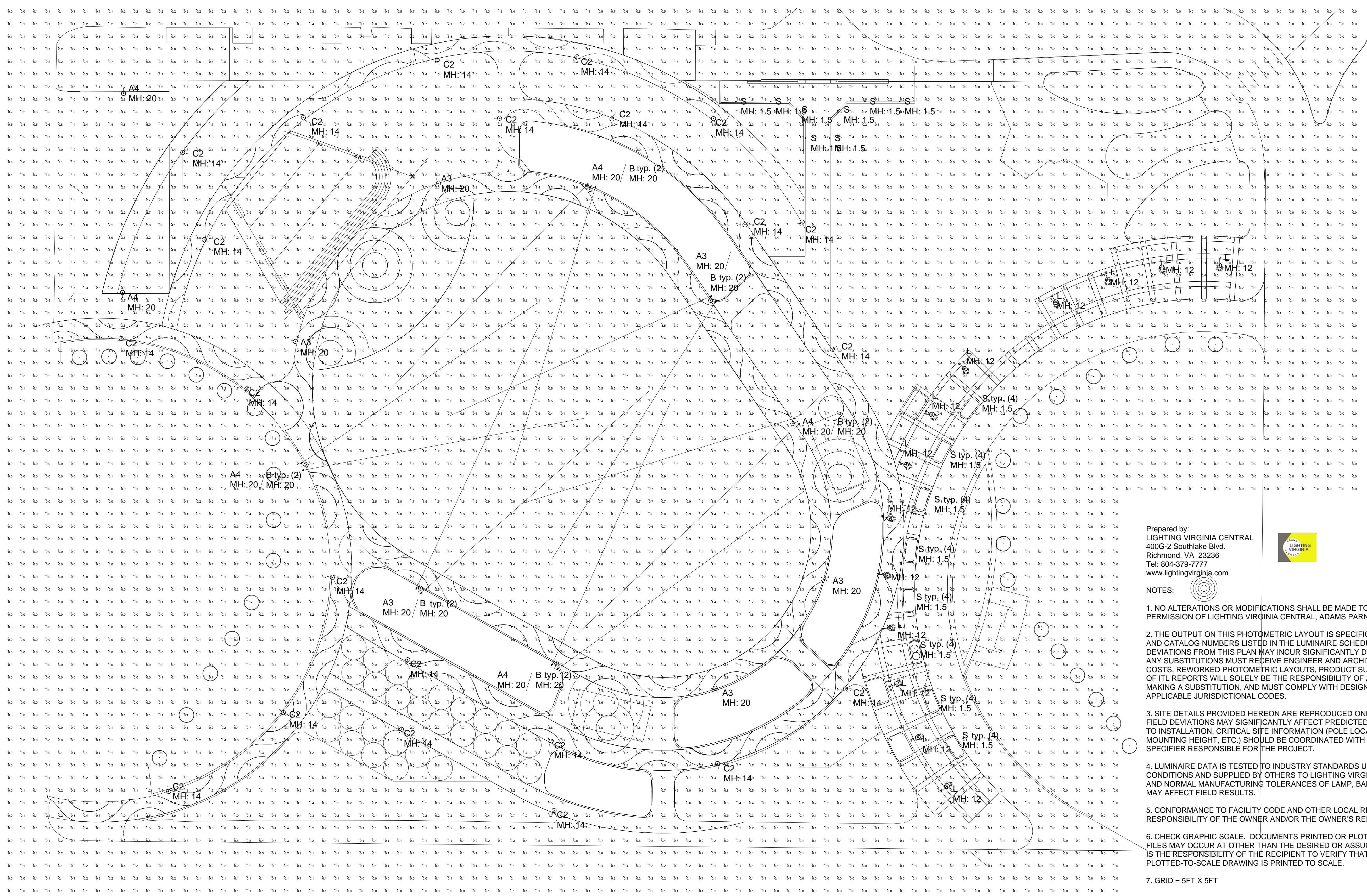
PHOTOMETRIC



#	Date	Comments
Revisions		

Drawn By: Diana Ades
Checked By:
Date: 3/31/2015
Scale: As noted

Kanawha Plaza
Rev 033115



Prepared by:
LIGHTING VIRGINIA CENTRAL
400G-2 Southlake Blvd.
Richmond, VA 23236
Tel: 804-379-7777
www.lightingvirginia.com



- NOTES:**
- NO ALTERATIONS OR MODIFICATIONS SHALL BE MADE TO THIS PLAN WITH PERMISSION OF LIGHTING VIRGINIA CENTRAL, ADAMS PARNELL, LLC.
 - THE OUTPUT ON THIS PHOTOMETRIC LAYOUT IS SPECIFIC TO THE MANUF. AND CATALOG NUMBERS LISTED IN THE LUMINAIRE SCHEDULE. SUBSTITUTED DEVIATIONS FROM THIS PLAN MAY INCUR SIGNIFICANTLY DIFFERENT RESULT ANY SUBSTITUTIONS MUST RECEIVE ENGINEER AND ARCHITECT APPROVAL. COSTS, REWORKED PHOTOMETRIC LAYOUTS, PRODUCT SUBMITTALS AND A OF ITR REPORTS WILL SOLELY BE THE RESPONSIBILITY OF ANY CONTRACTOR MAKING A SUBSTITUTION, AND MUST COMPLY WITH DESIGN CRITERIA AND V APPLICABLE JURISDICTIONAL CODES.
 - SITE DETAILS PROVIDED HEREON ARE REPRODUCED ONLY AS A VISUALIZ FIELD DEVIATIONS MAY SIGNIFICANTLY AFFECT PREDICTED PERFORMANCE. TO INSTALLATION, CRITICAL SITE INFORMATION (POLE LOCATIONS, ORIENTA MOUNTING HEIGHT, ETC.) SHOULD BE COORDINATED WITH THE CONTRACT SPECIFIER RESPONSIBLE FOR THE PROJECT.
 - LUMINAIRE DATA IS TESTED TO INDUSTRY STANDARDS UNDER LABORATO CONDITIONS AND SUPPLIED BY OTHERS TO LIGHTING VIRGINIA. OPERATING AND NORMAL MANUFACTURING TOLERANCES OF LAMP, BALLAST, AND LUMI MAY AFFECT FIELD RESULTS.
 - CONFORMANCE TO FACILITY CODE AND OTHER LOCAL REQUIREMENTS IS RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTATIVE.
 - CHECK GRAPHIC SCALE. DOCUMENTS PRINTED OR PLOTTED FROM ELEC FILES MAY OCCUR AT OTHER THAN THE DESIRED OR ASSUMED GRAPHIC SC IS THE RESPONSIBILITY OF THE RECIPIENT TO VERIFY THAT THE PRINTED OI PLOTTED-TO-SCALE DRAWING IS PRINTED TO SCALE.
 - GRID = 5FT X 5FT

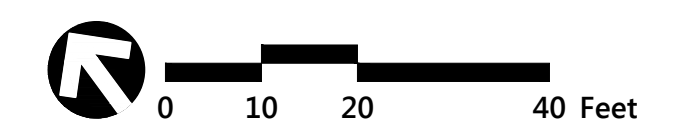
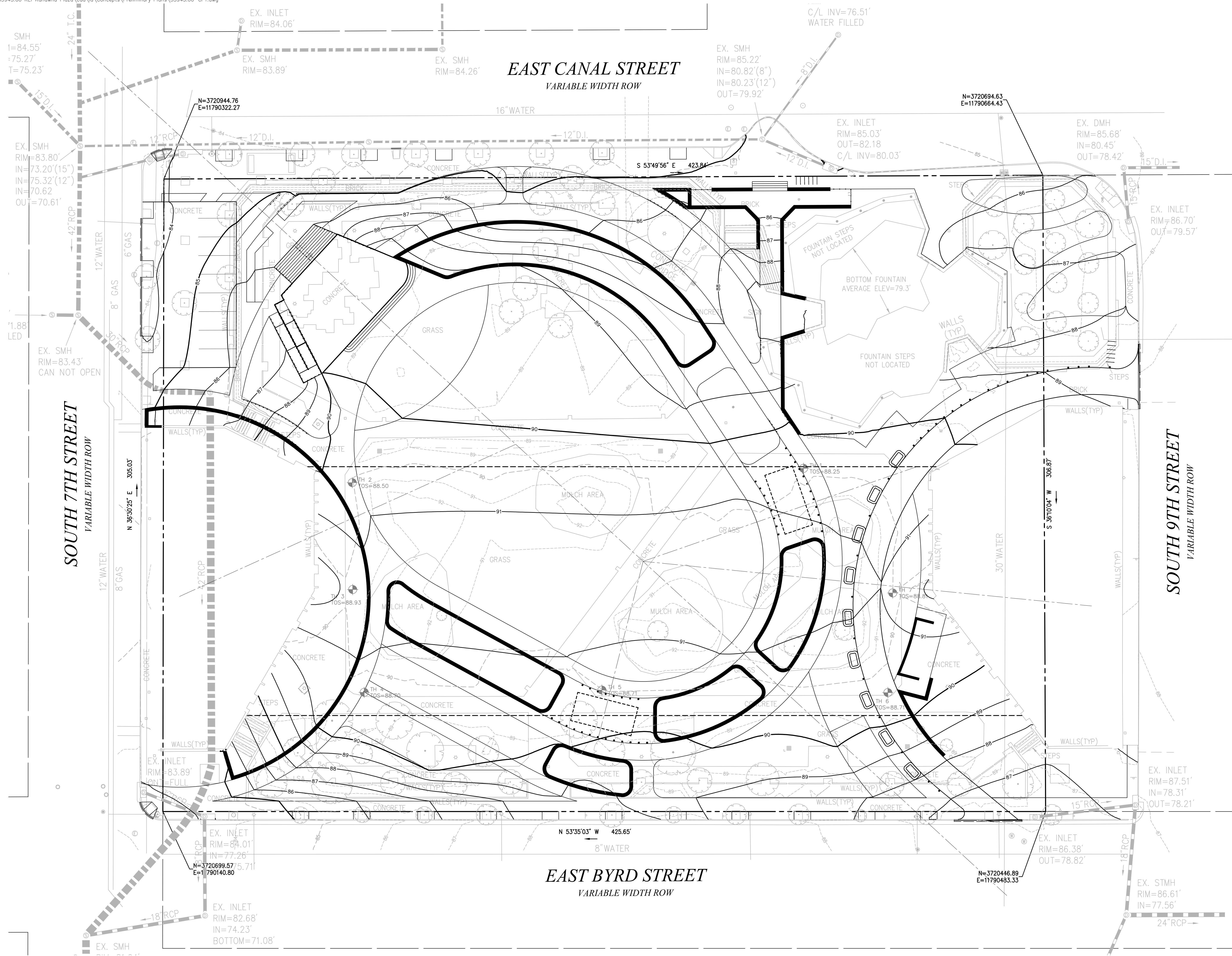
Symbol	Qty	Label	Total Lamp Lumens	LLF	[MANUFAC]	Description	Lum. Watts	Lum. Lumens
⊖	6	A3	N.A.	0.900	KIM LIGHTING	RA253E35-120L3K	126	7429
⊖	6	A4	N.A.	0.900	KIM LIGHTING	RA254E35-120L3K	125.1	7402
⊕	12	B	1800	0.900	ERCO GmbH	34124023_V07	22	1415
⊖	22	C2	N.A.	0.900	KIM LIGHTING	RA172E35-60L3K	63.2	3959
⊖	13	L	14000	0.750	SCHREDER	Boreal 150 MH dichroic	188	1038

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Site to Zero	Illuminance	Fc	0.88	11.1	0.0	N.A.	N.A.

MH = mounting height in feet
 ALLOW FOR THE FOLLOWING TREE UPLIGHTS (NOT SHOWN FOR CALCULATIONS):
 QTY: 110
 MANUFACTURER: VISION 3 LIGHTING
 DESCRIPTION: IG3B-XX-LED118-0-0-0/REMOTE POWER SUPPLIES AS NEEDED



115 South 15th Street
Suite 200
Richmond, VA 23219
804.343.7100



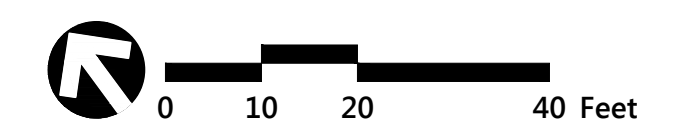
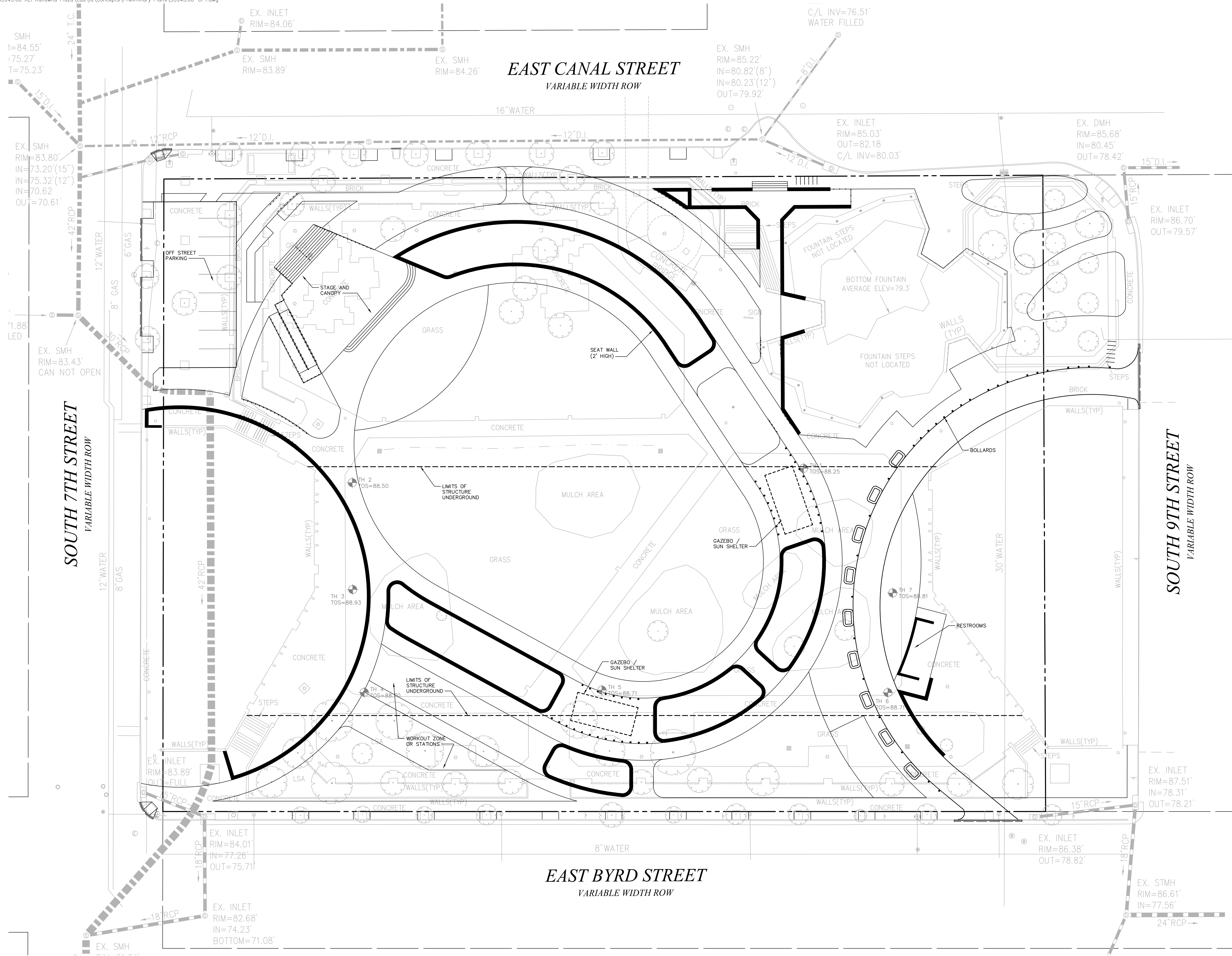
Kanawha Plaza
East Canal Street
Richmond, Virginia

No.	Revision	Date	Aspd.

Designed by: _____ Checked by: _____
 Issued for: _____ Date: _____
Team Review March 31, 2015

Not Approved for Construction
Drawing Title
**Site Plan
Grading**

Drawing Number
C-2
Sheet of
2 of 2
Project Number
33945.00



Kanawha Plaza
East Canal Street
Richmond, Virginia

No.	Revision	Date	Aspd.

Designed by: _____ Checked by: _____
 Issued for: _____ Date: _____
Team Review March 31, 2015

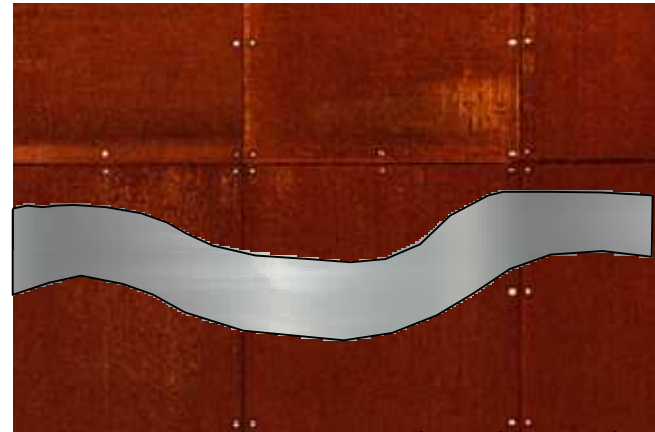
Not Approved for Construction
Drawing Title
**Site Plan
Layout**



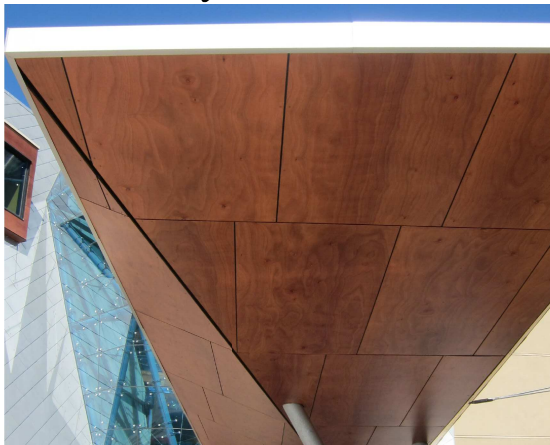
Metal Standing Seam
color: Grey



Metal Paint:
Hammered finish
silver color



RVA Logo: Pre-oxidated panel with
superimposed stainless steel wave.



Stage Ceiling: Composite
wood veneer panel
coated with synthetic resins
similar to Prodex or Trespa

Stage RVA Logo: The facade is corten steel pre-oxidated. The letters RVA will have stainless steel waves pattern overlay.

Column and Beam: will be tubular steel galvanized and painted with rust inhibitive paint, hammered silver color.

Stage Floor: will be concrete with joints carved like waves and different concrete textures similar to the park pedestrian side walk.

Stage Materials Selection

KE_i

ARCHITECTURE
INTERIORS
URBAN DESIGN

Design Development
for
Kanawha Plaza
Improvements

Date: 03-19-2015
Scale: ----
Designed By: ----
Drawn By: ----
Checked By: G.DesRosiers
Project Number: ----

Sheet Number:
of

IN COLLABORATION WITH

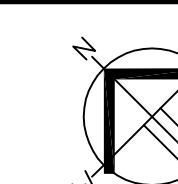


AERIAL VIEW

MARCH 19, 2015

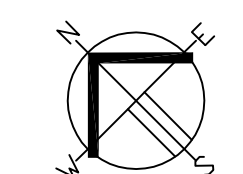
KANAWHA PLAZA DESIGN DEVELOPMENT

RICHMOND, VA.





DINING AREA





STAGE

