



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: Emergency Communication Center - Expansion and Alterations

Project Address: 3516 N. Hopkins Road, Richmond, VA

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

Building Addition for expansion of the call-taking and dispatching area, storage, restrooms, and renovation
of existing spaces to include administrative areas.

Applicant Information

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

Name: Beth Rappaport Email: beth.rappaport@richmondgov.com

City Agency: DPW - Special Capital Projects Group Phone: 646-7660

Address: Room 602, 900 E. Broad Street, City Hall

Main Contact (if different from Applicant): _____

Company: City of Richmond 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.

HVC • CHENAULT

Architecture • Planning • Interior Design

17 June 2015

Urban Design Committee
Department of Planning and Development Review
Planning & Preservation Division
900 East Broad Street
Richmond, Virginia 23219

Re: Conceptual Review
Richmond Emergency Communications Center
Expansion and Renovations

To the Members of the Urban Design Committee:

Hening • Vest • Covey • Chenault Architectural Corporation (HVC • CHENAULT) presents the Final Review documents for the expansion of the City of Richmond's Emergency Communications Center.

Purpose of the Project

Currently, all E-911 calls originating in the City of Richmond are received by call-takers in the Emergency Communications Center (ECC), located at 3516 N. Hopkins Road. Fire and Police response are dispatched from this facility. Calls for the Richmond Ambulance Authority (RAA), are transferred to their facility at 2400 Hermitage Road. Transferring these calls to the RAA creates a delay in response time, and is operationally inefficient. To improve emergency services to the citizens of Richmond, an expansion to the ECC is needed to relocate the RAA dispatchers into the operations space at the ECC. This expansion will improve operational effectiveness, and also reduces operational expenses by sharing dispatch technology and by avoiding duplicate costs. The expansion will also continue to serve to provide back-up call-taking and dispatching spaces for Henrico or Chesterfield Counties, which is a desirable and necessary operational redundancy in case of system failures in the other jurisdictions.

A Feasibility Study was prepared in October 2013, by Hening • Vest • Covey • Chenault Architectural Corporation, which identified that an addition at the ECC site can accommodate the required sixteen (16) new console positions and support spaces needed for combined operations with the RAA.

HENING • VEST • COVEY • CHENAULT ARCHITECTURAL CORPORATION

telephone 804-225-9900 • fax 804-225-7288 • e-mail hvc@hvcarchitects.com

1710 east franklin street • suite 100 • richmond, virginia 23223

Project Background

The existing Emergency Communications Center (ECC) is a single-story building of 14,523 square feet at 3516 N. Hopkins Road and was completed in 2000. It has served as the City as the primary PSAP (Public-Safety Answering Point), with the Radio Operations Room housing 22 console positions providing call-taking and dispatching functions. It is located on an approximately 4.5 acre site, which is a portion of the Public Works Operations Complex on Hopkins Road. This site contains the ECC, the Radio Equipment Building and a separately fenced 400-ft high Communications Tower. The site is bounded by a perimeter security fence and a sliding security vehicle gate. The site is adjacent to the DPW trash transfer station, with an earth berm barrier for visual separation and for potential explosion protection. To the south and west is a CSX rail spur and to the north, an auto salvage yard along the full length of the north property line. Serving the on-site facilities is parking for 57 vehicles adjacent to the buildings and 31 spaces for overflow parking outside the secure perimeter fence at a lower level lot adjacent to the ECC entrance drive.

Description of Construction Program

The addition will provide space for the required 16 new console positions, plus related management offices and administrative and other support functions. Redundant HVAC units, electrical and UPS systems support the new functions. Additional storage is planned for the addition, which will eliminate the need for the existing shed at the rear of the property. There will be some interior modifications to the existing facility to improve current and future functions. This includes a larger conference room, additional offices and flex-office spaces to house temporary and part-time positions, lockers and shower.

Because the ECC is a critical communications facility, it is open continuously with no interruptions in operations. The building envelope is moderately hardened to prevent debris from damaging the building during extreme weather events, and to protect the personnel and equipment. Window openings are minimal and bullet resistant. Redundant mechanical and electrical generation equipment ensures that if one system fails, or is inoperable due to routine or unscheduled maintenance or damage, the second units are able to be put into service.

The Radio Operations Room is the space where calls for service are received by the call-takers, and then the appropriate response by police, fire or rescue is sent by the dispatchers. Each call-taker or dispatcher works at a console, each with multiple computer monitors displaying a

variety of information. Lighting levels are kept low, and acoustical sound, both within the Operations Room, and from outside the facility, is kept low. Natural light, although desirable, needs to be carefully considered to reduce glare on the monitors and to prevent people outside the building from being able to see the information on the monitors. Due to the confidential nature of the work of the personnel who have a private or semi-private office, windows to the exterior are operationally undesirable.

The building addition, located on the north side of the existing building, will match the existing building materials. This will include white and light grey ground-face CMU, scored in an 8 inch by 8 inch pattern, and 16 inch by 16 inch blue glazed CMU. The windows are bullet-resistant pre-finished aluminum windows. The roof will be prefinished standing-seam gray metal roof with slopes and finish to match the existing building. To illustrate the match of the addition to the existing building, a rendering of the completed expansion is provided with the drawings attached to the submittal documents. This is being provided in lieu of material samples.

For storm water quantity management, underground detention at the new parking lot appears to be the most appropriate technique. Please refer to the "Response to Previous Comments" at the end of this document for an explanation on why pervious pavers are not being recommended for this project.

Project Budget and Funding Sources

Pending fiscal-year 2016 budget allocations, construction is scheduled to start on the addition in mid-October 2015. Once the addition is completed and the call taking and dispatch consoles are relocated there, the renovations to the existing facility will begin. The project is expected to be completed in September of 2016.

Response to Previous Review Comments

Included with this submittal are landscaping plan with plant schedule, site lighting layout showing the foot candle analysis using 30 foot poles and matching the existing light fixtures.

The previous review comments included the recommendation for additional windows on the north façade. Four windows have been added to the north elevation where conference rooms and offices provide an additional security barrier to the operations center and help maintain the low light levels preferred by Dispatchers and Call-Takers.

Urban Design Committee
Department of Planning and Development Review
Planning & Preservation Division
Final Review
Richmond Emergency Communications Center
Expansion and Renovations
Page 4

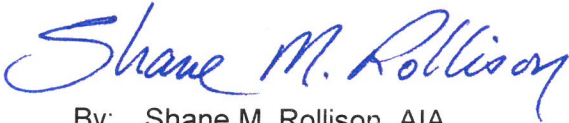
Due to the project being outside the Resource Management Area (RMA) and disturbing less than 1 acre, there is no storm water quality requirement. This means that there is no need for water quality storm water BMPs, such as porous pavers. There is a water quantity requirement for the project, which is met by the underground pipe detention system.

Porous pavers are much more expensive than asphalt pavement. Typically, this can be as much as 4 or 5 times the cost of conventional asphalt. Also porous pavers require periodic maintenance to keep them from clogging, which also increases life cycle costs.

We appreciate being of service to the City of Richmond, and look forward to the receipt of your recommendations.

Respectfully,

HENING • VEST • COVEY • CHENAULT ARCHITECTURAL CORPORATION

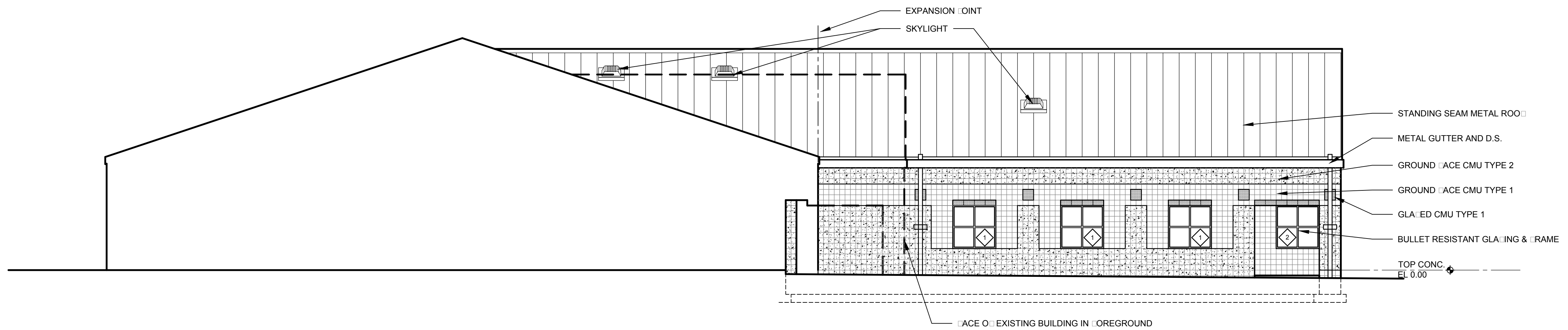


By: Shane M. Rollison, AIA
President

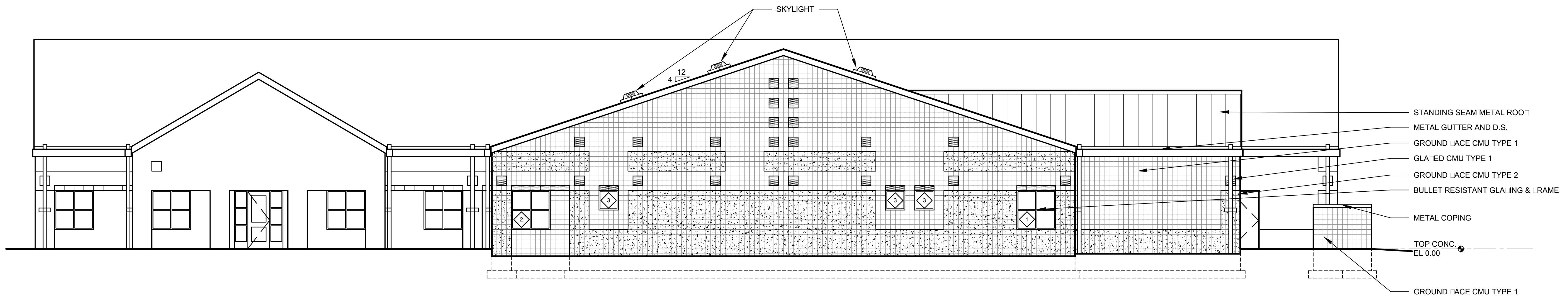
CC: Ms. Elizabeth Rappaport, RA, DPW
Mr. Steve Willoughby, DEC
Mr. Bill Hobgood, DIT

Attachments: Architectural Site Plan
Civil Site Plan
Site Lighting Plan
Landscape Architect Plan
Floor Plan
Exterior Elevations
Conceptual Rendering





1 EAST ELEVATION
SCALE: 1/8" = 1'-0"



2 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

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 1710 east franklin street suite 100 richmond va 23223 (p) 804-225-9900 (f) 804-225-7288

**EMERGENCY COMMUNICATIONS CENTER
 EXPANSION & RENOVATION**
 3516 NORTH HOPKINS RD · RICHMOND, VIRGINIA

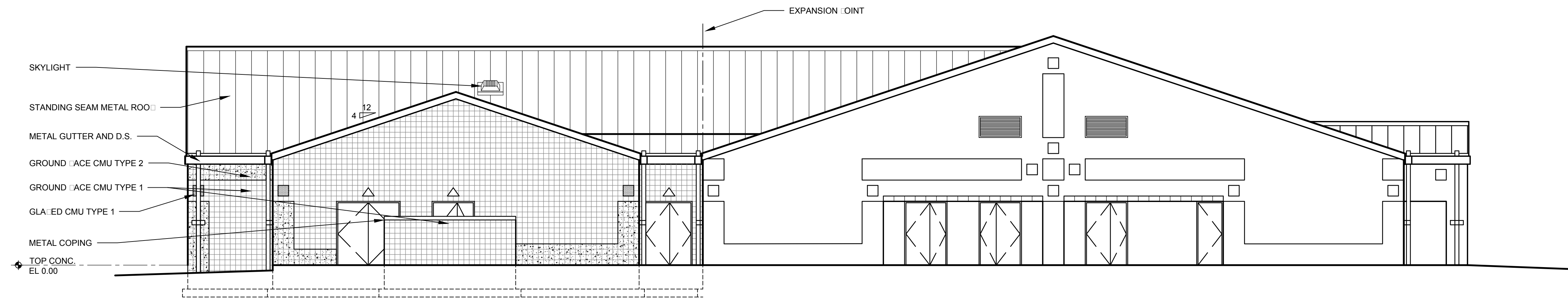
PROGRESS PRINT

proj. no. :	5504
drawn by :	DAB/CRB
checked by :	SMR
date :	6-17-2015
revisions :	

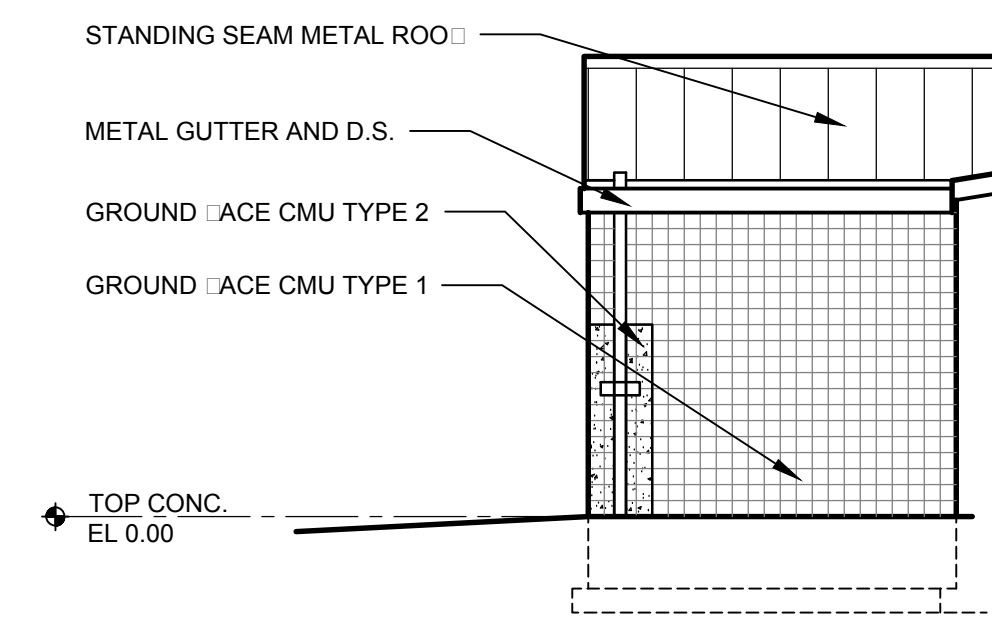
DPW NO. P-28647
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BUILDING ELEVATIONS

A2.1



1 WEST ELEVATION
SCALE: 1/8" = 1'-0"



2 PARTIAL ELEVATION
SCALE: 1/8" = 1'-0"

PROGRESS PRINT

EMERGENCY COMMUNICATIONS CENTER
EXPANSION & RENOVATION

3516 NORTH HOPKINS RD RICHMOND, VIRGINIA

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hening · west · covey · chenault architectural corporation
1710 east franklin street suite 100 richmond va 23223 (p) 804-225-9900 (f) 804-225-7288

proj. no. :	5504
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checked by :	SMR
date :	6-17-2015
revisions :	

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BUILDING ELEVATIONS

A2.2



RESERVED
PARKING





Job Name:
RICHMOND EMERGENCY
COMMUNICATION CENTER SITE

Catalog Number:
1A/ ET4/ 400PMHXXX/ LG/ HS/ P6-
LG
Notes:

Type:
ET4
LV - CENTRAL15-18352



ET
Entablature®

revision 04/08/15 • kl_et_spec.pdf

Type:
Job:
Catalog number:

Approvals:

1A / ET4 / 400PMHXXX / LG / HS P6-LG

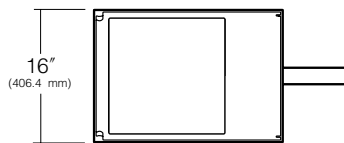
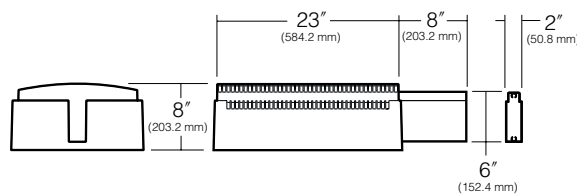
Mtg. Fixture Electrical Module Finish Options / Optional Entab
See page 2 See page 3 See pages 4-6 See page 7

Date:
Page: 1 of 7

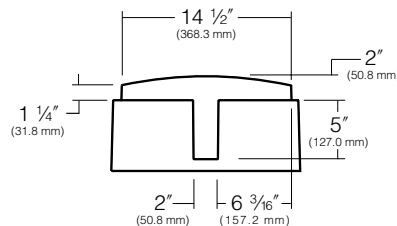
Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

Specifications

ET Model
150 to 400 watt
Mogul Base Lamps



Maximum Fixture weight (400HPS) = 45 lb



Entablature Dimensions

See page 7 for standard Entab configurations and specifications.



U.S. PATENTS: D389,262, D402,386, D404,511, D403,790, D404,512, D404,841, D399,328, D404,094, D408,571, D407,841, D407,840, D408,093, D407,838, D407,839, D408,572, D407,837, D409,324, D403,791

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

Housing: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling fins on the top surfaces above the optical chamber and electrical compartment. A solid barrier wall separates the optical and electrical compartments, with gasketed wire penetrations. A double-thick wall with gussets is provided on the support arm mounting end. Inset sections on each end provide for attachment of optional entablatures, and cradle the mounting arm. All hardware is stainless steel or electro-zinc plated steel.

Lens Frame: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with a 1" minimum thickness around the gasket flange for rigidity. Integral hinges with stainless steel pins provide no-tool mounting and removal from the housing. Two stainless steel thumb-latches are recessed into the front corners, concealed from normal view. Lens frame seals against the housing by a one-piece extruded silicone gasket with vulcanized end closure. Clear 3/16" thick tempered flat or convex glass lens is retained in the frame by eight clips with full silicone gasketing around the perimeter.

Reflector Module: Specular Alzak® optical segments are rigidly mounted in a die-cast, low copper (<0.6% Cu) aluminum alloy enclosure which attaches to the housing as a one-piece module. Reflector module is field-rotatable in 90° increments. All HPS and PMH sockets are porcelain mogul base rated 4KV with a molded silicone lamp stabilizer. All reflector modules are factory prewired with a quick-disconnect plug for the ballast module, with wires passing through a silicone gasket in the housing barrier wall. Four light distributions are available and interchangeable within the same housing size.

Electrical Module: All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Electrical module attached to housing with no-tool hinges and latches, accessible by opening the lens frame. All ballasts are high power factor with starting temperatures of -40°F for HPS and -20°F for MH lamp modes.

Support Arm: One-piece extruded aluminum with internal bolt guides and a recessed step to match the housing. Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief. For mounting to round poles, arm is circular cut for precise mating to the pole diameter.

Finish: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; A.S.T.M. 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray®, Platinum Silver, or White. Custom colors are available.

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

Listings and Ratings		
UL cUL 1598 ¹	4G Vibration ²	25C Ambient
IP66 Rated		CE
Full Cut Off ³ with flat glass lens - Cut Off with convex glass lens		

¹Suitable for wet locations

²5K Cycle Tested

³Dark Sky Legislation Compliant



Job Name:
RICHMOND EMERGENCY
COMMUNICATION CENTER SITE

Catalog Number:
1A/ ET4/ 400PMHXXX/ LG/ HS/ P6-
LG
Notes:

Type:
ET4
LV - CENTRAL15-18352



ET
Entablature®

revision 04/08/15 • kl_et_spec.pdf

Type:

Job:

Page: 7 of 7

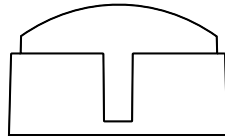
Optional Entablatures (Entabs)

No Entablature

Finish: Super TGIC thermoset polyester powder coat paint, over a titanated zirconium conversion coating.

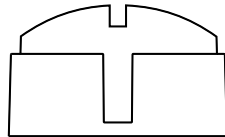
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|--|--|
| <input type="checkbox"/> BL Black | <input type="checkbox"/> PS Platinum Silver |
| <input type="checkbox"/> DB Dark Bronze | <input type="checkbox"/> WH White |
| <input checked="" type="checkbox"/> LG Light Gray | <input type="checkbox"/> CC Custom Color: |
| <input type="checkbox"/> SG Stealth Gray® | |

Arched Entablatures



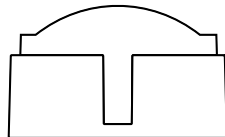
Arch

Cat. No. **A1**



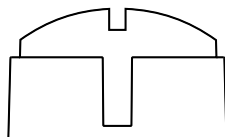
Broken Arch

Cat. No. **A2**



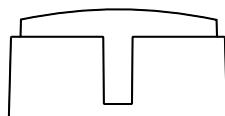
Stepped Arch

Cat. No. **A3**



Stepped Broken Arch

Cat. No. **A4**

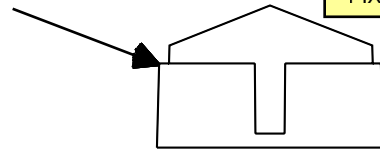


Standard Entablature
Follows fixture body profile

Cat. No. **A5**

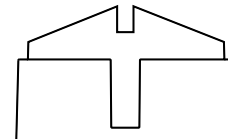
Peaked Entablatures

FINISH COLOR TO MATCH
FIXTURE FINISH - VERIFY



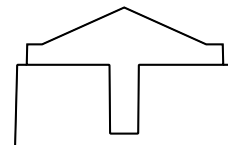
Peak

Cat. No. **P6**



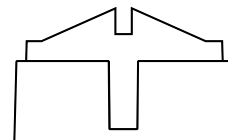
Broken Peak

Cat. No. **P7**



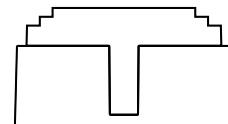
Stepped Peak

Cat. No. **P8**



Stepped Broken Peak

Cat. No. **P9**



Stepped

Cat. No. **P10**


Specify Entablature and color.
Example: [A2/LG]

Entablature Specifications: (Optional) Stamped from .090" aluminum sheet, mechanically attached to front and back of housing with no visible fasteners. For custom colors and/or custom Entablatures, consult your Kim representative. See page 1 for dimensions.

NOTES:

- 1) EXACT MOUNTING DETAILS TO BE DETERMINED AT JOBSITE BY OTHERS.
- 2) CALCULATIONS DO NOT SHOW THE EFFECT OF SHADOWING CAUSED BY OBJECTS WITHIN AREA.

**RICHMOND EMERGENCY
COMMUNICATION CENTER
LIGHTING LAYOUT WITH GIVEN LOCATIONS
REF. NO. LV07011.AGI
6/17/2015**

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description	Filename
	4	ET4	SINGLE	40000	0.720	ET4_400PMH-ED28_HS	et4-400p-hs.ies

Calculation Summary									
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Description	
PARKING	Illuminance	Fc	1.68	3.0	0.2	8.40	15.00	readings taken at grade	

SITE IMAGE SCALED TO DIMENSION SHOWN IN RED.
MUST BE CONFIRMED ON-SITE