III. A.

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Architectural Review Board Staff Report

Project Type: Site Development Section Plan

Meeting Date: January 9, 2014

From: Jessica Henry
Project Planner

cc: Aimee Nassif, Planning & Development Services Director

Location: 158 Long Road

Applicant: JLA Development, LLC

Description: **Monarch Center, Lots A and B (Edison Express):** A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and an Architect's Statement of Design for a 2.58 acre tract of land zoned "PC" Planned Commercial District located on the northeast corner of the intersection of Long Road and Edison Avenue.

PROPOSAL SUMMARY

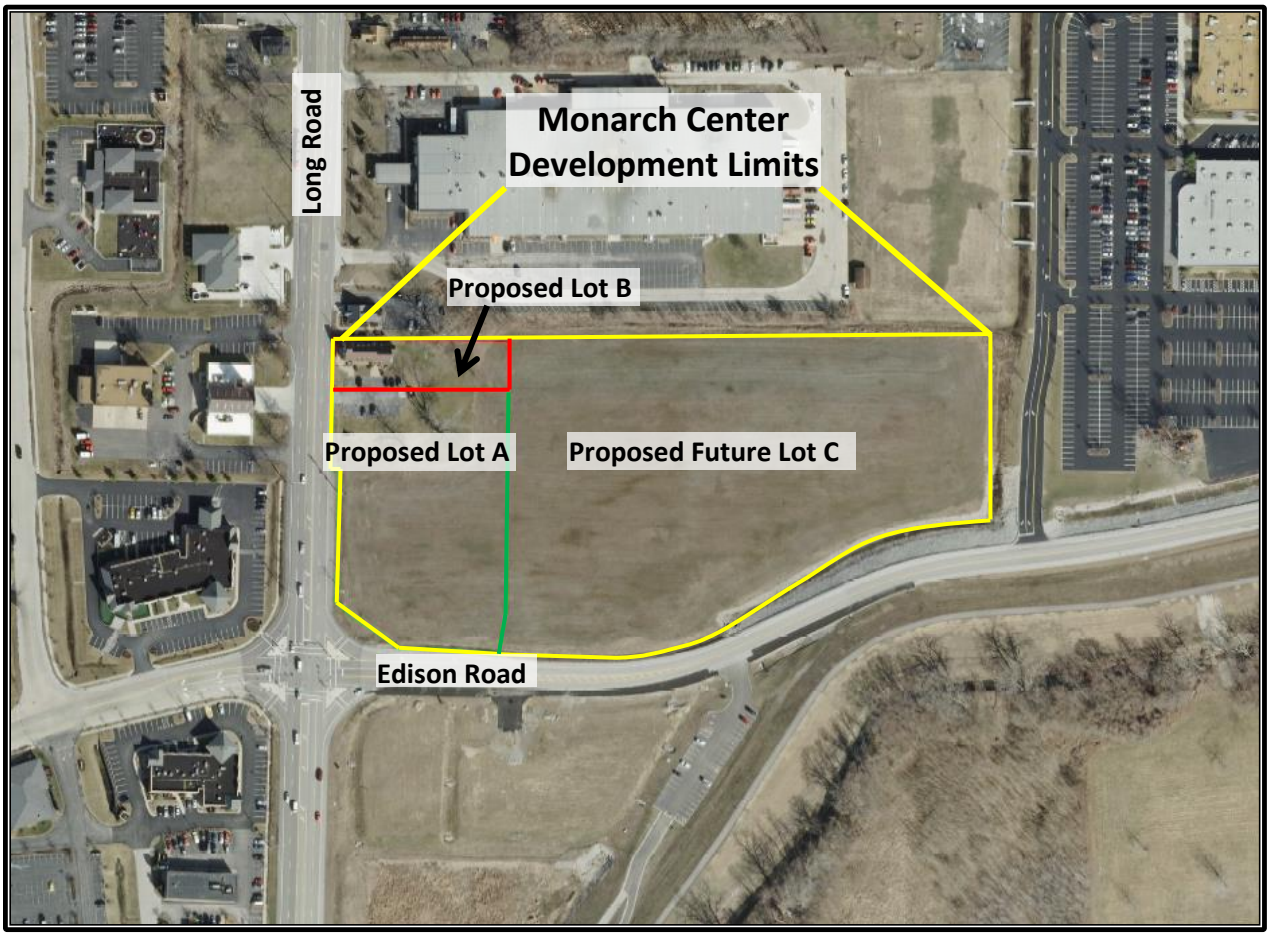
The request is for an 11,932 square foot convenience store, gas station, carwash, and donut shop located on Long Road, east of the Tower Centre development. The subject site is zoned "PC" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance 2753. The exterior building materials will be comprised of brick, stone veneer, glass, aluminum frame, EIFS, and wood plank siding. The proposal includes a mostly flat roof with two raised standing seam metal portions and prefinished metal parapet caps. Metal canopies with cable attachments on the west and south elevations match the color and material of the standing seam prefinished metal portions of the roof.

The request was presented for review by the Architectural Review Board (ARB) at the December 12, 2013 meeting. During that meeting, a number of concerns were raised by Staff and ARB members and the Applicant subsequently requested an opportunity to make revisions to the request and reappear before the ARB at the following meeting. Staff prepared a letter detailing the concerns raised by the ARB and many, although not all, of those concerns have been addressed in the Applicant's revised submission. Please note that the Site Development Section Plan, Lighting Plan, and Landscape Plan for the project are still under review by Staff and there are many outstanding issues remaining.

HISTORY OF SUBJECT SITE

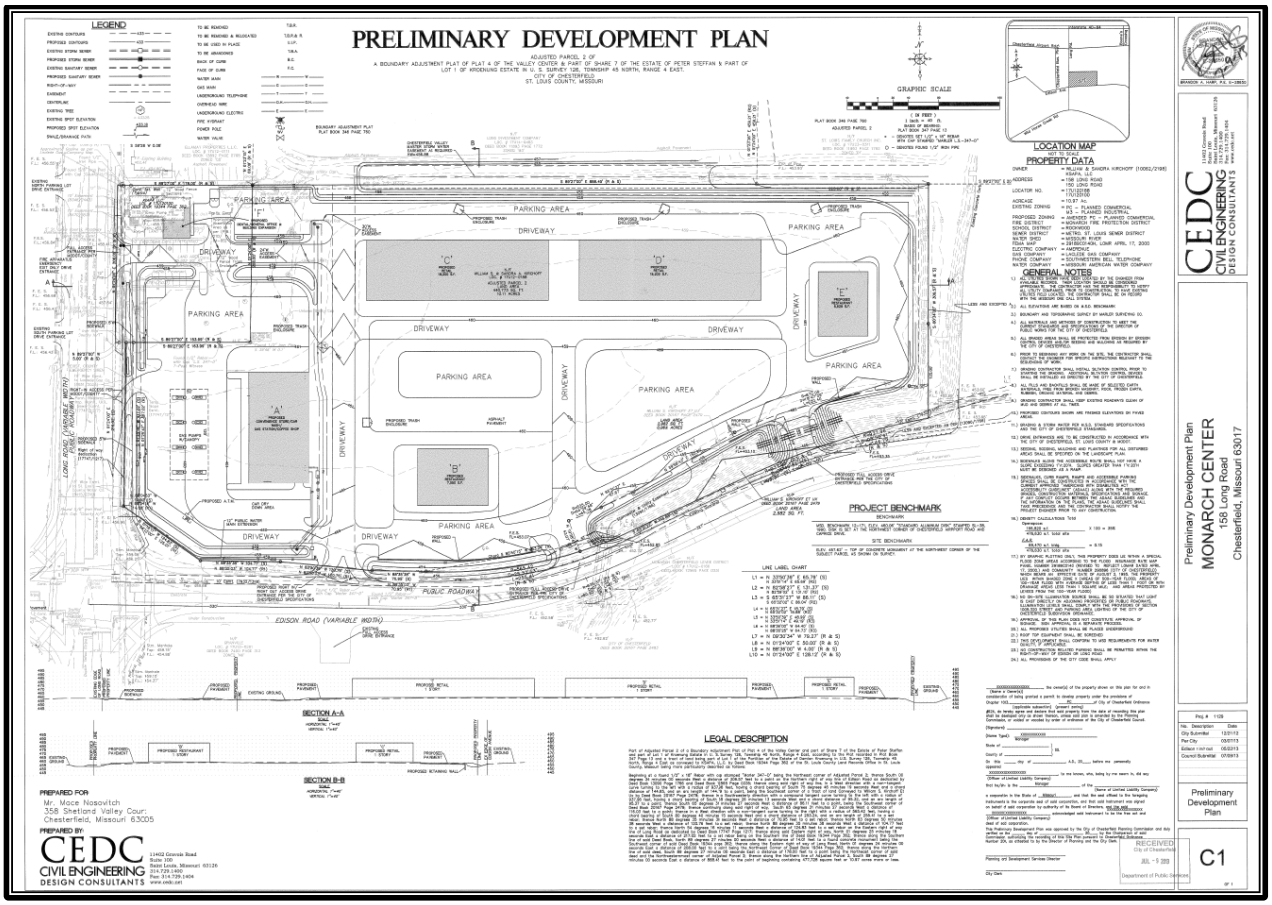
On February 5, 2007, the City of Chesterfield approved Ordinance 2334 which rezoned the property from "NU" Non-Urban District to "PC" Planned Commercial District. Ordinance 2334 was repealed on August 5, 2013, when the City of Chesterfield approved Ordinance 2753 to allow for the addition of a 0.85 acre parcel of land zoned "M-3" Planned Industrial District to an existing "PC" Planned Commercial District resulting in a new "PC" Planned Commercial District totaling 10.94 acres. Ordinance 2753 also amended various building and parking setbacks and made modifications, such as a slight increase in the allowable floor area permitted within the development, to account for the addition of land.

City of Chesterfield Ordinance 2753 requires that a Site Development Plan or Site Development Concept Plan must be submitted within eighteen (18) months from the date of approval of the preliminary plan. On November 22, 2010, a two year time extension to submit a Site Development Plan or Site Development Concept Plan was granted by the Planning Commission. On October 8, 2012, a second two year time extension to submit a Site Development Plan or Site Development Concept Plan was granted by the Planning Commission. In both instances, the request cited "current economic conditions in the region" as the basis for their request.



STAFF ANALYSIS

The proposal for the development of Lots A and B substantially complies with the approved Preliminary Development Plan on file for the Monarch Center development (see Preliminary Development Plan on following page).



General Requirements for Site Design:

A. Site Relationships

The subject site is located along the western perimeter of the Monarch Center development and will be the first property to be developed in the newly created Monarch Center development. The existing dental office and accompanying acreage located on proposed Lot B was incorporated into the Monarch Center Development via P.Z. 05-2013. That building was constructed in 1969 prior to the incorporation of the City of Chesterfield. To the north of the property is the Pohlman Industrial Park subdivision and to the west are the Monarch Fire Protection District House 5 and the Tower Centre subdivision. To the south is the undeveloped Edison Crossing subdivision.

B. Circulation System and Access

The site proposes one right-in/right-out access point off Edison Road which will serve as a shared access drive for the three proposed lots in the development, including future proposed Lot C. Additionally, a full access point located at the boundary of proposed Lots A and B is proposed off of Long Road. This full access point will serve as a shared access drive for proposed Lots A and B and will connect with the shared access drive off of Edison Road. A right-in only access point is also proposed off of Long Road. The developer has proposed a five foot sidewalk along Long Road to connect to a proposed sidewalk along the full access point off of Long Road. This sidewalk will ultimately be tied into proposed Lot C to

the east to provide a continuous sidewalk throughout the development and to satisfy the Ordinance 2753 requirement that internal sidewalks from each building to the sidewalk on Long Road be provided. Based on input from the ARB, the western portion of the sidewalk located along the internal drive on proposed Lot B was adjusted to provide landscaping in the area between the internal drive and sidewalk. The eastern portion of the sidewalk was eliminated and in its place a southern crosswalk to proposed Lot A and newly added east-west sidewalk is proposed.

An additional modification resulting from ARB input is the addition of an employee access sidewalk to the dumpster enclosure. However, this access was placed off of the carwash drive lane in a fashion that may impact its usability. Further, a sidewalk located at the building exit nearest to the carwash tunnel entrance was partially eliminated, leaving a stub that ends at the restaurant drive-thru lane. Staff believes that clarification of the intent of this design is necessary.

In addition to any direction received by the ARB, Staff will continue to work with the Applicant to address site access and circulation concerns as part of the Site Development Section Plan review.

C. Topography

The existing grade of the property is generally flat. Minimal changes to the existing topography are planned.

D. Retaining Walls

No retaining walls are proposed on the site.

General Requirements for Building Design:

A. Scale

The Applicant is proposing a single-story convenience store with a tunnel carwash. The convenience store will be designed to accommodate an additional tenant. The Applicant has informed Staff that a donut shop is proposed at this time. The proposed height is similar to properties in adjacent commercial developments.

B. Design

The proposed building design features front and side elevations that are articulated with brick, glass, reveals, and a covered recessed entry. The building includes a curved standing seam metal roof over the main entry. A square low slope standing seam metal roof is proposed over the southern portion of the west elevation. Matching metal canopies are placed on the west and south elevations.

Ordinance 2753 contains several site design requirements, and the Applicant proposes to meet those requirements in the following ways:

1. The site includes an outdoor seating and plaza area to the north of the proposed building. Access to the plaza requires that pedestrians cross the drive-thru lane, a potential safety concern that is under review by Staff. The ARB requested architectural elevations and a fence detail for the pedestrian plaza. The Applicant has furnished a rendering of the plaza in the packet for the ARB's review.

2. A concrete pad has been placed in the northwest corner of the site to house a public art installation that is yet to be determined.
3. The landscaped islands between each row of parking have been enlarged to ten (10) feet in width and approximately 380 square feet in size.

C. Materials and Color

As mentioned earlier, the building will be primarily comprised of brick, stone veneer, wood plank siding, and EIFS; additional materials proposed are tinted glass windows with anodized aluminum window frames, pre-fabricated cornices and parapets with prefinished metal caps. The material colors proposed are two earth tones—a light warm taupe and darker accent color— that are compatible with the color palette of the surrounding developments. The scuppers and downspouts are constructed of a prefinished metal and, as stated by the Applicant in the previous ARB meeting, will be dark bronze in color. The low fence and railing intended to direct pedestrians across the restaurant drive-thru lane to the pedestrian plaza is comprised of black metal and stone fence piers with cast stone caps.

As recommended by the ARB, the east elevation was revised to extend the brick significantly to the upper portion of the building. This eliminates all but a small band of EIFS along the roofline from the east elevation.

Additional site elements include a carwash drive-thru canopy, a gas station canopy with eight pump islands, and an ATM. Architectural elevations for each of these structures are included in the Applicant's submission. The carwash drive-thru canopy and gas station canopy include columns comprised of stone veneer and brick corresponding to the building materials proposed for the building. The gas station canopy appears to be a standard Phillips 66 white and red stripe design.

The ATM is comprised of brick matching the development and a blue metal roof that corresponds to the leasing bank's corporate branding.

D. Landscape Design and Screening

The request includes landscaping required by the City of Chesterfield Tree Preservation and Landscape Requirements Ordinance. According to the City's Street Classification Map, Long Road and Edison Road are both classified as arterials; therefore there is a thirty (30) foot required landscape buffer along both Long Road and Edison Road. Additionally, Ordinance 2753 states that "in the event that the ATM shown on the Preliminary Plan is constructed, substantial landscaping shall be installed to buffer the structure from the public rights-of-way."

The trees located closest to the entrance of the shared access drive off of Long Road are still under review for compliance with sight-distance requirements. The Landscape Plan submitted with the ARB packet does not contain a scale, but Staff will verify compliance with sight-distance requirements when a full size revised Landscape Plan is received as part of the ongoing Site Development Section Plan review.

One concern that was shared by Staff and the ARB but not addressed by the Applicant is the location of the dumpster enclosure off of the shared internal access drive. As during the December 12, 2103 ARB meeting, the vinyl dumpster enclosure doors are facing the internal drive and future development. This orientation provides screening via landscaping of the brick elevations of the dumpster enclosure rather than the unsightly vinyl doors. Staff will be requiring that the dumpster enclosure location and/or

orientation be revised in order to provide safe internal access for employees and waste haulers and to ensure adequate screening of the dumpsters from future development at all times.

During the previous ARB meeting, concern was expressed regarding the outdoor utility storage area. This area is to be constructed of brick and vinyl plank fence and is proposed at the rear of the building (east elevation). The revised architectural elevations do not show a change in materials, however, the outdoor storage area now appears to be an opaque or sight proof enclosure as required by the Architectural Review standards. Two remaining areas of concern regarding this area are that the enclosure as shown on the architectural elevations does not commence at the ground level and the primary material used continues to be vinyl plank.

The ARB requested that a sight-line study be submitted to show that rooftop utilities would be adequately screened by the building parapets. Resulting from the sight-line study, the Applicant has added a mechanical unit roof screen. This unit is shown on the architectural elevations in a color matching those used throughout the development.

Previously, two demising walls were proposed at the drive-thru carwash exit. Both demising walls have been replaced by landscaping, with the wall parallel to the south elevation becoming a landscape island with two light poles. The proposed landscaping in these areas will be reviewed by the City Arborist and Planning Staff to ensure adequate screening and appropriateness on the proposed species as part of the ongoing Site Development Section Plan review.

Additionally, several pole-like structures were depicted along the south elevation near the drive-thru carwash exit. The purpose of these structures was unclear and the ARB and Staff requested additional clarification. The structures are carwash vacuum stanchions, and information pertaining to them is included in the packets submitted by the Applicant. Based on the rendering provided, there appears to be between twelve and sixteen vacuum stanchions. In addition to any direction that the ARB may have, Staff will review the vacuum stanchions against Municipal Code and site-specific Ordinance requirements.

E. Signage

Signage is not part of the proposal before Architectural Review Board and will be reviewed by Staff.

F. Lighting

The plan proposes pole mounted light fixtures in the parking lot area and LED canopy light fixtures on the gas pump station canopy and carwash canopy. Two types of wall-mounted light fixtures are proposed on the building—the first being horizontal shoebox type fixtures and the second being LED cylinder fixtures. As proposed, lighting will be for utilitarian purposes and is fully shielded and has full cut off optics. On the previous Light Plan, the Applicant proposed four different fixture types; on the revised Lighting Plan included in the ARB packets, six are proposed. The Lighting Plan is still under review by Staff.

Specific Requirements for the Chesterfield Valley

Façades: The proposed elevations utilize similar materials and design on all four sides of the building. The south and north façade (sides of building) include overhead doors to provide for access to the proposed carwash portion of the building.

Storage: As previously discussed, the area currently proposed for an enclosed utility area on the site plan has been revised to provide screening. The screening as shown does not commence at the ground level. Section 1003.177.10.a. specifically identifies "Delivery zones, trash enclosures, ***storage areas, transformers and generators*** that are not screened and visible by the public" (emphasis added) as Undesirable Practices.
Utilities: As required by the planned district ordinance for the site, all utilities to the building will be installed underground.
Parking: The parking shown on the Site Development Section Plan is under review by Staff and will be revised to meet City Code requirements. The proposed building will not be visible from I-64/US 40 or North Outer 40 Road.

DEPARTMENTAL INPUT

To summarize, the following changes to the project were made based on recommendations from the ARB and Staff at the December 12, 2013 meeting:

- The east elevation was revised to eliminate the large expanse of EIFS and is now proposed to be constructed primarily of brick.
- A sight-line study was submitted and additional screening of roof mounted utilities was provided.
- The location of the western portion of the sidewalk located along the internal drive on Proposed Lot B was adjusted to provide landscaping in the area between the internal drive and sidewalk.
- Architectural elevations were provided for the ATM, Carwash canopy, and gas pump island canopy.
- The pole structures located at the carwash drive-thru exit were identified as vacuum stanchions.
- The demising walls located at the carwash drive-thru exit were replaced by landscaping.
- The location of the street trees nearest to the Long Road access was revised.
- Light fixture cut sheets have been provided for all proposed fixtures.
- Clarification regarding the color and material of the downspouts was provided.

The following changes were requested by the ARB and Staff at the December 12, 2013 meeting; however, the applicant has chosen not to make those changes at this time:

- Although the storage area on the east elevation was revised to provide opaque, sight-proof screening, the primary material used continues to be white vinyl plank.
- The storage area screening does not commence at the ground level.
- An employee access to the dumpster enclosure was added; however, the access is located off of the carwash drive-thru lane and is therefore not a safe access.
- The location of the dumpster enclosure was not revised to provide screening of the vinyl doors as well as waste hauler access internal to the site.

Staff is requesting recommendations from the ARB on the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design. Be advised, this project is still going through development review by City Staff and will not proceed to the Planning Commission until all outstanding items have been addressed. All recommendations made by the ARB will be included in Staff's report to the Planning Commission.

MOTION

The following options are provided to the Architectural Review Board for consideration relative to this application:

1) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Monarch Center, Lots A and B (Edison Express) as presented, with a recommendation for approval (or denial) to the Planning Commission."

2) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Monarch Center, Lots A and B (Edison Express), to the Planning Commission with the following recommendations…"

Attachments

1. Architectural Review Packet Submittal

Edison Express

158 Long Road
Chesterfield, Missouri

December 30, 2013

Owner:
JLA Development

Architect:
David W. Dial Architects, P.C.

Civil Engineer:
Civil Engineering Design Consultants

ARCHITECTURAL REVIEW BOARD
Project Statistics and Checklist

Date of First Comment Letter Received from the City of Chesterfield 11/18/2013

Project Title: Edison Express **Location:** 158 Long Road

Developer: JLA Development **Architect**: David W. Dial Architects, PC **Engineer**: Civil Eng. Design Consult.

PROJECT STATISTICS:

Size of site (in acres): 2.58 AC **Total Square Footage:** +/-11,932 SF **Building Height:** +/-32'

Proposed Usage: Convenience Store / Gas Station / Carwash / Donut Shop

Exterior Building Materials: Brick, Stone, Glass, Aluminum Frame, EIFS, Wood Plank Siding

Roof Material & Design: Standing Seam Metal, TPO

Screening Material & Design: Brick Dumpster Screen, Stone/Vinyl Utility Screen, Prefinished Metal Roof Screen

Description of art or architecturally significant features (if any): See Architects Statement

ADDITIONAL PROJECT INFORMATION:

We are providing a conceptual landscape plan for the entire 11 acre development

Checklist: Items to be provided in an 11" x 17" format

- [x] **Color Site Plan with contours, site location map, and identification of adjacent uses.**
- [x] **Color elevations for all building faces.**
- [x] **Color rendering or model reflecting proposed topography.**
- [x] **Photos reflecting all views of adjacent uses and sites.**
- [x] **Details of screening, retaining walls, etc.**
- [ ] **Section plans highlighting any building off-sets, etc. (as applicable)**
- [x] **Architect's Statement of Design which clearly identifies how each section in the Standards has been addressed and the intent of the project.**
- [x] **Landscape Plan.**
- [x] **Lighting cut sheets for any proposed building lighting fixtures. (as applicable)**
- [x] **Large exterior material samples. (to be brought to the ARB meeting)**
- [x] **Any other exhibits which would aid understanding of the design proposal. (as applicable)**
- [x] **Pdf files of each document required.**

dial architects

14364 Manchester Road
Manchester Missouri 63011
636 230 0400

December 30, 2013

City of Chesterfield
Department of Planning
690 Chesterfield Parkway West
Chesterfield, Missouri 63017-0760

Members of the Architectural Review Board

Re: Architectural Statement
Submittal for Approval of New Facility for Edison Express
158 Long Road.

Edison Express Information and Background
The Owner is a current and long time resident of Chesterfield and wishes to build a cutting edge convenience store/carwash to invest in the future of the Chesterfield Valley business community.

General Requirements for Site Design
This project consists of a single-story convenience store with a tunnel carwash. The facility is designed for the convenience store and an additional tenant. The construction site is located on the northeast quadrant of the intersection of Long Road and Edison.

As you can see from the photos in this packet, the rectangular site is treeless and generally flat other than the drainage ditch and is otherwise featureless. The building is strategically located on the site to be compatible with the existing drainage system for the development while maintaining compatibility with neighboring developments.

This project has a 5' wide sidewalk parallel to Long Road to provide pedestrian circulation. The transition from the street to the site effectively utilizes a shared entrance for this site, the existing office building to the north and the proposed future development to the east to help eliminate multiple curb cuts. The parking is located in the front of the building, with added elements to enhance the overall design of the facility and provide safe passage to the entry plaza.

We are not proposing the use of retaining walls on the site at this time.

We are proposing a brick and vinyl plank fence to effectively screen the utility area at the northeast corner of the building.

Landscaping has been designed per city ordinance in a similar fashion to the adjacent developments. Please see attached landscape plan.

General Requirements for Building Design

The owner of this facility, being a long time resident of the City of Chesterfield, has played a major role in the design of this facility and places a high priority on the appearance to enhance the success of the business and to increase the quality of the design in Chesterfield Valley.

The front and side elevations area articulated with brick, glass, reveals, a covered recessed entry and multiple colors of paint and materials. The east side of the building is designed with brick columns and reveals in rhythmically pleasing geometric patterns with accent colors to add depth and shadow lines to the elevations.

As seen on the attached elevations, the building will utilize two earth tone colors, tinted glass and anodized aluminum window frames. The colors, glass and metal items are juxtaposed on the façades of the building to create a very nice overall building design. These include a main building color of a light warm taupe and darker accent color similar in nature.

The building is constructed of brick on all four elevations.

The glass will be an energy efficient, tinted, glass in anodized aluminum frames. As you can see on the attached elevations, we have used the glass as an effective design element in the elevational articulation.

The design is respectful of the surrounding development in general and is harmonious in scale, material, and color. Nearby buildings are also constructed of brick and glass and/or earth tone colors and materials similar to ours. Signage will be applied to the building in a similar fashion as adjacent buildings.

Site lighting is planned with fully shielded, full cut-off optics light standards around the perimeter of the asphalt with wall-mounted, shoebox type fixtures on the east, west and south elevations of the building that will meet City ordinances.

Please see the site development section plan for drainage information.

The roof top units shall be screened by use of unit mounted prefinished metal.

Specific Requirements for the Chesterfield Valley

As stated above we encompass the building with reveals and colors for continuity while highlighting the visible front and sides with glass. The trash receptacle will be screened from public view with brick to coordinate with the building.

The electrical service will be provided by a new transformer located along the north side of the proposed building. All utilities to this building are underground.

I-64/US-40 is to the north of this property and is not readily visible from the property. Automobile parking is west of the building and the service/loading area is on the south side of the building.

Street lighting is included in this project to match the City required street lighting.

It remains our intentions to provide a design that will enhance the local environment while blending with the building types already near the Long Road and Edison Express intersection. The owner is excited about starting his new facility and becoming a business resident in the City of Chesterfield.

Thank you for your assistance.

As required, building materials that will be brought to the ARB meeting will include:

Brick, glass and frame sample, and color samples of the coatings.

End of Architects Statement

LOOKING NORTH

LOOKING EAST

LOOKING SOUTH

LOOKING WEST

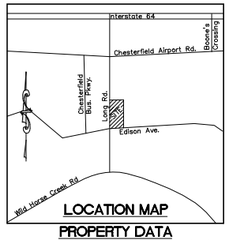
SITE DEVELOPMENT SECTION PLAN

ADJUSTED PARCEL 2 OF A BOUNDARY ADJUSTMENT PLAT OF PLAT 4 OF THE VALLEY CENTER & PART OF SHARE 7 OF THE ESTATE OF PETER STEFFAN & PART OF LOT 1 OF KROENUNG ESTATE IN U. S. SURVEY 126, TOWNSHIP 45 NORTH, RANGE 4 EAST
CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

LOCATION MAP



PROPERTY DATA

OWNER	= WILLIAM & SANDRA KIRCHOFF (10062/2198)
ADDRESS	= 158 LONG ROAD 150 LONG ROAD
LOCATOR NO.	= 17U120188 17U120100
ACREAGE	= 3.10 Ac.
EXISTING ZONING	= PC – PLANNED COMMERCIAL (ORD. 2753)
FIRE DISTRICT	= MONARCH FIRE PROTECTION DISTRICT
SCHOOL DISTRICT	= ROCKWOOD
SEWER DISTRICT	= METRO ST. LOUIS SEWER DISTRICT
WATER SHED	= MISSOURI RIVER
FEMA MAP	= 29189C0140H, LOMR APRIL 17, 2000
ELECTRIC COMPANY	= AMERENUE
GAS COMPANY	= LACLEDE GAS COMPANY
PHONE COMPANY	= ATT
WATER COMPANY	= MISSOURI AMERICAN WATER COMPANY

GENERAL NOTES

1. ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED. THE CONTRACTOR SHALL BE ON RECORD WITH THE MISSOURI ONE CALL SYSTEM.
2. ALL ELEVATIONS ARE BASED ON M.S.D. BENCHMARK.
3. BOUNDARY AND TOPOGRAPHIC SURVEY BY MARLER SURVEYING CO.
4. ALL MATERIALS AND METHODS OF CONSTRUCTION TO MEET THE CURRENT STANDARDS AND SPECIFICATIONS OF THE DIRECTOR OF PUBLIC WORKS FOR THE CITY OF CHESTERFIELD.
5. ALL GRADED AREAS SHALL BE PROTECTED FROM EROSION BY EROSION CONTROL DEVICES AND/OR SEEDING AND MULCHING AS REQUIRED BY THE CITY OF CHESTERFIELD.
6. PRIOR TO BEGINNING ANY WORK ON THE SITE, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SPECIFIC INSTRUCTIONS RELEVANT TO THE SEQUENCING OF WORK.
7. GRADING CONTRACTOR SHALL INSTALL SEDIMENTATION CONTROL PRIOR TO STARTING THE GRADING OPERATION. SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED AS DIRECTED BY THE CITY OF CHESTERFIELD.
8. ALL FILLS AND BACKFILLS SHALL BE MADE OF SELECTED EARTH MATERIALS, FREE FROM BROKEN MASONRY, ROCK, FROZEN EARTH, RUBBISH, ORGANIC MATERIAL AND DEBRIS.
9. GRADING CONTRACTOR SHALL KEEP EXISTING ROADWAYS CLEAN OF MUD AND DEBRIS AT ALL TIMES.
10. PROPOSED CONTOURS SHOWN ARE FINISHED ELEVATIONS ON PAVED AREAS.
11. GRADING & STORM WATER PER M.S.D. STANDARD SPECIFICATIONS AND THE CITY OF CHESTERFIELD STANDARDS.
12. DRIVE ENTRANCES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF CHESTERFIELD, ST. LOUIS COUNTY & MODOT.
13. SEEDING, SODDING, MULCHING AND PLANTINGS FOR ALL DISTURBED AREAS SHALL BE SPECIFIED ON THE LANDSCAPE PLAN.
14. SIDEWALKS ALONG THE ACCESSIBLE ROUTE SHALL NOT HAVE A SLOPE EXCEEDING 1'V:20'H. SLOPES GREATER THAN 1'V:20'H MUST BE DESIGNED AS A RAMP.
15. SIDEWALKS, CURB RAMPS, RAMPS AND ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG) ALONG WITH THE REQUIRED GRADES, CONSTRUCTION MATERIALS, SPECIFICATIONS AND SIGNAGE. WHERE A CONFLICT OCCURS BETWEEN THE ADAAG GUIDELINES AND THE INFORMATION ON THESE PLANS, THE ADAAG GUIDELINES SHALL TAKE PRECEDENCE AND THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER PRIOR TO ANY CONSTRUCTION.
16. BY GRAPHIC PLOTTING ONLY, THIS PROPERTY DOES LIE WITHIN A SPECIAL PANEL NUMBER 29189C0140 (REVISED TO REFLECT LOMAR DATED APRIL 17, 2000.) AND COMMUNITY NUMBER 290896 (CITY OF CHESTERFIELD) WHICH BEARS AN EFFECTIVE DATE OF AUGUST 2, 1995, THE PROPERTY LIES WITHIN SHADED ZONE X (AREAS OF 500-YEAR FLOOD; AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM THE 100-YEAR FLOOD)
17. NO ON-SITE ILLUMINATION SOURCE SHALL BE SO SITUATED THAT LIGHT IS CAST DIRECTLY ON ADJOINING PROPERTIES OR PUBLIC ROADWAYS. ILLUMINATION LEVELS SHALL COMPLY WITH THE PROVISIONS OF THE CITY OF CHESTERFIELD ORDINANCE 2228.
18. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF SIGNAGE. SIGN APPROVAL IS A SEPARATE PROCESS.
19. ALL PROPOSED UTILITIES SHALL BE PLACED UNDERGROUND.
20. ROOF TOP EQUIPMENT SHALL BE SCREENED.
21. THIS DEVELOPMENT SHALL CONFORM TO MSD REQUIREMENTS FOR WATER QUALITY, IF APPLICABLE.
22. NO CONSTRUCTION RELATED PARKING SHALL BE PERMITTED WITHIN THE RIGHT-OF-WAY OF EDISON OR LONG ROAD.
23. ALL PROVISIONS OF THE CITY CODE SHALL APPLY

DENSITY CALCULATIONS

OPEN SPACE

PROPOSED LOT 'A'
OPEN SPACE = 39,862 S.F.
SITE AREA = 113,837 S.F.
(39,862 / 113,837) x 100 = 35%

PROPOSED LOT 'B'
OPEN SPACE = 9,324 S.F.
SITE AREA = 22,112 S.F.
(9,324 / 22,112) x 100 = 42%

F.A.R.

PROPOSED LOT 'A'
11,940 S.F. / 113,837 = 0.10

PROPOSED LOT 'B'
(6,000 / 22,112) x 100 = 0.27

PARKING CALCULATIONS

PARKING REQUIRED PROPOSED LOT 'A'

C-STORE: 4.5 per 1000 g.s.f. = 5,468 / 1,000 x 4.5 = 24 STALLS

RESTAURANT: 15.0 per 1000 g.s.f. = 1,522 / 1,000 x 15.0 = 22 STALLS

CAR WASH: 2 per 3 EMPLOYEES = 9 x 2/3 = 6 STALLS

TOTAL REQUIRED: 52 SPACES

PARKING PROVIDED PROPOSED LOT 'A'

9'x19' = 42 STALLS
A.D.A. = 2 STALLS
Total = 44 STALLS

PARKING REQUIRED PROPOSED LOT 'B'

OFFICE (DENTAL): 4.0 per 1000 g.s.f. = 3,000 / 1,000 x 4.0 = 12 STALLS

OFFICE (GENERAL): 3.5 per 1000 g.s.f. = 4,000 / 1,000 x 3.5 = 14 STALLS

TOTAL REQUIRED: 26 SPACES

PARKING PROVIDED PROPOSED LOT 'B'

9'x19' = 24 STALLS
A.D.A. = 2 STALLS
= 26 STALLS

JLA DEVELOPMENT LLC , the owner of the property shown of this plan for and in consideration of being granted a permit to develop property under the provisions of Chapter 1003_____ _____ of City of Chesterfield Ordinance #624, do hereby agree and declare that said property from the date of recording this plan shall be developed only as shown thereon, unless said plan is amended by the Planning Commission, or voided or vacated by order of ordinance of the City of Chesterfield Council.

SIGNATURE: _____

NAME TYPED: _____

State of _____ }
} S.S.
County of _____ }

On this _____ day of _____ A.D., 2013, before me personally appeared _____ to me known, who, being by me sworn in, did say that he is the Manager of JLA DEVELOPMENT LLC, a corporation in the State of Missouri, and that the seal affixed to the foregoing instruments is the corporate seal of said Corporation, and that said instrument was signed on behalf of said corporation by authority of its Board of Directors, and the said _____ acknowledged said instrument to be the free act and deed of said corporation.

In Testimony Whereof, I have hereunto set my hand and affixed my Notarial Seal at my Office in _____ the day and year last above written. My term expires_____

_____
(Notary Public)

This Site Development Section Plan was approved by the City of Chesterfield Planning Commission and duly verified on the _____ day of _____ 2013, by the Chairperson of said Commission, outlining the recording of the Site Development Section Plan pursuant to Chesterfield Ordinance Number 200 as attested by the Planning and Development Services Director and the City Clerk.

_____
Planning and Development Services Director

_____
City Clerk

PREPARED FOR:
JLA DEVELOPMENT LLC
158 Long Road
Chesterfield, Missouri 63005

PREPARED BY:
CEDC
CIVIL ENGINEERING
DESIGN CONSULTANTS
11402 Gravois Road
Suite 100
Saint Louis, Missouri 63126
314.729.1400
Fax: 314.729.1404
www.cedc.net

LEGEND

EXISTING CONTOURS — 433
PROPOSED CONTOURS — 433
EXISTING STORM SEWER
PROPOSED STORM SEWER
EXISTING SANITARY SEWER
PROPOSED SANITARY SEWER
RIGHT-OF-WAY
EASEMENT
CENTERLINE
EXISTING TREE
EXISTING SPOT ELEVATION × 433.28
PROPOSED SPOT ELEVATION 433.28
SWALE/DRAINAGE PATH

LEGAL DESCRIPTION

PROPOSED LOT 'A' W/RIGHT OF WAY ACQUISITION

A tract of land being part of Adjusted Parcel 2 of the Boundary Adjustment Plat of The Valley Center and part of share 7 of the Estate of Peter Steffan & Part of Lot 1 of Kroenung Estate in U. S. Survey 126, Township 45 North, Range 4 East, as recorded in Plat Book 347 Page 13, and part of a tract of land conveyed to KSAPA LLC by Deed Book 19344 Page 362 of the St. Louis County Land Records Office in St. Louis County, Missouri, being more particularly described as follows:

Commencing at a found 1/2" rebar with cap "Marler 347-D" being the Northeast corner of Adjusted Parcel 2; Thence along the Northern line of Adjusted Parcel 2, North 89 degrees 27 minutes 00 seconds West a distance of 784.30' to a set 1/2" x 18" rebar with cap stamped "Marler 347-D" (typical); thence South 00 degrees 33 minutes 00 seconds West a distance of 78.21 feet to a set rebar being the point of beginning of the herein described tract; thence South 00 degrees 33 minutes 00 seconds West a distance of 358.77 feet to a set rebar; thence South 10 degrees 33 minutes 17 seconds West a distance of 68.00 feet to set rebar on the Northern right of way line of Edison Road (Variable Width); thence along the Northern right of way line of Edison Road, North 83 degrees 50 minutes 38 seconds West a distance of 56.20 feet to a found 1/2" rebar with cap stamped "Marler 347-D"; thence North 88 degrees 35 minutes 38 seconds West a distance of 104.77 feet to a found 1/2" rebar with cap Stamped "Marler 347-D"; thence along the proposed right of way acquisition, along a curve to the right having a radius of 109.99 feet, and arc length of 132.74 feet and a chord bearing of North 54 degrees 16 minutes 11 seconds West a distance of 124.83 feet to a found 1/2" rebar with cap Stamped "Marler 347-D" being on the Eastern right of way line of Long Road; thence North 01 degrees 25 minutes 18 seconds East a distance of 217.00 feet to a found 1/2" rebar with cap stamped "Marler 347-D" on the Southern line of Deed Book 19344 Page 362; thence along the Southern line of said Deed Book, North 89 degrees 27 minutes 00 seconds West a distance of 14.01 feet to a set rebar; thence continuing along the Eastern right of way of Long Road, North 01 degrees 24 minutes 00 seconds East a distance of 129.78 feet to a set rebar; thence South 89 degrees 27 minutes 00 seconds East a distance of 283.31 feet to the point of beginning containing 113,837 square feet or 2.61 acres more or less as calculated by Marler Surveying Company, inc. during September 2013.

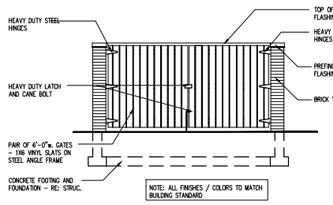
LEGAL DESCRIPTION

PROPOSED LOT 'B'

A tract of land being part of Adjusted Parcel 2 of the Boundary Adjustment Plat of The Valley Center and part of share 7 of the Estate of Peter Steffan & Part of Lot 1 of Kroenung Estate in U. S. Survey 126, Township 45 North, Range 4 East, as recorded in Plat Book 347 Page 13, and part of a tract of land conveyed to KSAPA LLC by Deed Book 19344 Page 362 of the St. Louis County Land Records Office in St. Louis County, Missouri, being more particularly described as follows:

Commencing at a found 1/2" rebar with cap "Marler 347-D" being the Northeast corner of Adjusted Parcel 2; Thence along the Northern line of Adjusted Parcel 2, North 89 degrees 27 minutes 00 seconds West a distance of 784.30' to a set 1/2" x 18" rebar with cap stamped "Marler 347-D" (typical) being the point of beginning of the herein described parcel, thence South 00 degrees 33 minutes 00 seconds West a distance of 78.21 feet to a set rebar; thence North 89 degrees 27 minutes 00 seconds West a distance of 283.31 feet to a set rebar on the Eastern right of way line of Long Road (Variable Width); thence along the Eastern right of way of North 01 degrees 24 minutes 00 seconds East a distance of 78.22 feet to a set rebar; thence leaving said right of way line South 89 degrees 27 minutes 00 seconds East a distance of 282.15 feet to the point of beginning containing 22,112 square feet or 0.50 acres more or less as calculated by Marler Surveying Company September 2013.

TRASH ENCLOSURE DETAIL



ELEVATION

LEGAL DESCRIPTION

Proposed right of way acquisition

A tract of land being part of Adjusted Parcel 2 of Boundary Adjustment of the Valley Center Plat 4 and part of Share 7 of the Estate of Peter Steffan and Part of Lot 1 of Damian Kroenung's Estate, as recorded in Plat Book 347 Page 13 and being part of a tract of land conveyed to the City of Chesterfield by Deed Book 13090 Page 1766 of the St. Louis County Land Records Office in St. Louis County, Missouri being more particularly described as follows:

Beginning at a found 1/2" rebar with cap stamped "Marler 347-D" being on the Northern line of said Deed Book 13090 Page 1766 and being on the Southeastern corner of right of way dedication by Deed Book 17747 Page 1217, Thence along the Northern line of said Deed Book 13090 Page 1766, South 54 degrees 16 minutes 11 seconds East a distance of 124.83 feet to a found 1/2" rebar with cap stamped "Marler 347-D"; thence leaving said line along a curve to the right having a radius of 109.99 feet, and arc length of 132.74 feet and a chord bearing of North 54 degrees 16 minutes 11 seconds West a distance of 124.83 feet to the point of beginning containing 1,647 Sq. Ft. or 0.04 acres more or less as calculated by Marler Surveying Company Inc. during November 2013.

BENCHMARKS

PROJECT BENCHMARK

MSD. BENCHMARK 12-171, ELEV. 460.06' "STANDARD ALUMINUM DISK" STAMPED SL-38, 1990. DISK IS SET AT THE NORTHWEST CORNER OF CHESTERFIELD AIRPORT ROAD AND CAPRICE DRIVE.

SITE BENCHMARK

ELEV. 457.62' – TOP OF CONCRETE MONUMENT AT THE NORTHWEST CORNER OF THE SUBJECT PARCEL AS SHOWN ON SURVEY.

GEOTECHNICAL ENGINEER'S STATEMENT

These plans have been reviewed by the undersigned for _____ regarding compliance with our geotechnical recommendations. It is our professional opinion that earth slopes and grades constructed in accordance with the plans and specifications will be stable with an adequate factor of safety. _____ must be involved during the construction phase to determine that subsurface conditions are as anticipated and that recommendations relative to construction are implemented.

_____, P.E.
E-_____
Date: _____

SURVEYOR'S CERTIFICATION

This is to certify that this Plat is a correct representation of all existing and proposed land divisions.

Marler Surveying Company, Inc.
MISSOURI CORP. NO. L.S. 347-D

_____
Marty L. Marler, R.L.S.

BRANDON A. HARP, P.E. E-28650
CIVIL ENGINEER
CEDC LICENSE NO.: 2003004674

CEDC
CIVIL ENGINEERING
DESIGN CONSULTANTS
11402 Gravois Road
Suite 100
Saint Louis, Missouri 63126
Phone: 314.729.1400
Fax: 314.729.1404
www.cedc.net

Site Development Section Plan
Edison Express
158 Long Road
Chesterfield, Missouri 63005

Proj. # 1129		
No.	Description	Date
	City Submittal	09-30-13
	Per City	11-11-13

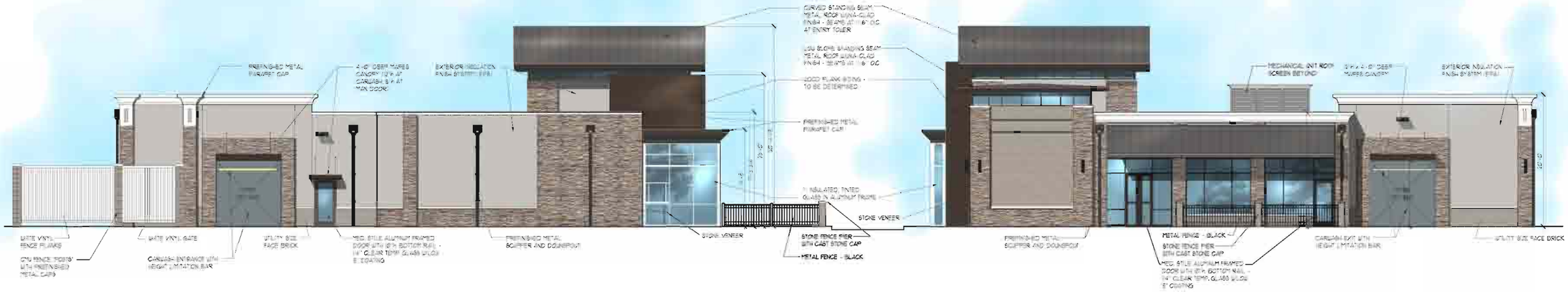
Site Development Section Plan

C1

OF 1

WEST ELEVATION

1/8"=1'-0"



NORTH ELEVATION

1/8"=1'-0"

SOUTH ELEVATION

1/8"=1'-0"

EAST ELEVATION

1/8"=1'-0"

General Contractor:

Structural Engineer:

New C-Store for:

Edison Express

Address
Chesterfield, MO 63005

ISSUE DATES:

PRELIMINARY REVIEW:	08-23-13
PRELIMINARY REVIEW:	09-30-13
PRELIMINARY REVIEW:	10-25-13
FINAL REVIEW:	11-06-13
SITE DESIGN REVIEW:	11-20-13
ELEVATION REVISIONS:	12-06-13
ELEVATION REVISIONS:	01-13-14
FINAL REVIEW:	01-16-14

STATE OF MISSOURI REGISTERED ARCHITECT:
DAVID WILLIAM DIAL - LICENSE NUMBER A-7320
EMPLOYED BY DIAL ARCHITECTS, P.C.
ARCHITECTURAL CORPORATION #00018819

THE ARCHITECT'S SEAL AFFIXED TO THIS SHEET INDICATES THAT THE NAMED ARCHITECT HAS PREPARED OR DIRECTED THE PREPARATION OF THE MATERIAL SHOWN HEREON. THIS SHEET, EITHER ORIGINALS AND DOCUMENTS NOT CARRYING THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY OR THE RESPONSIBILITY OF THE UNDERSIGNED.

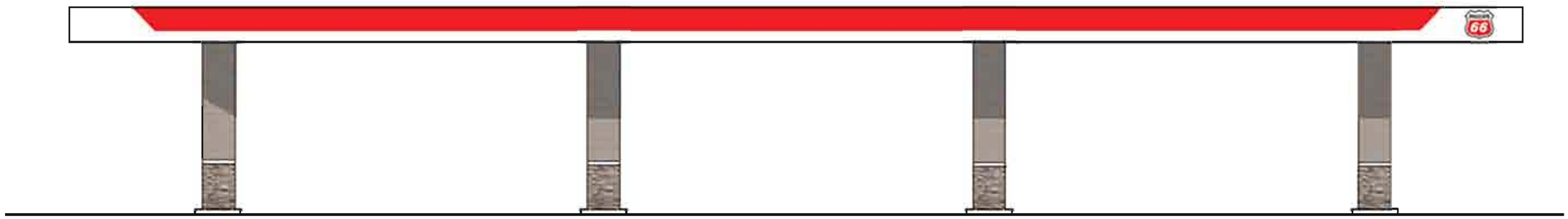
DIAL ARCHITECTS

DAVID W. DIAL ARCHITECTS, P.C.
14368 Manchester Road
Suite 300
Manchester, Missouri 63011
Phone (636) 230-0400
Fax (636) 230-0401
www.dialarchitects.com

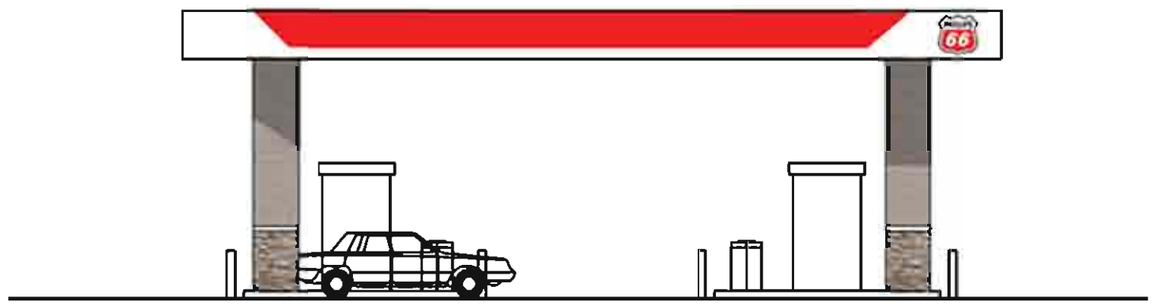
SHEET NUMBER:

ELEVATIONS

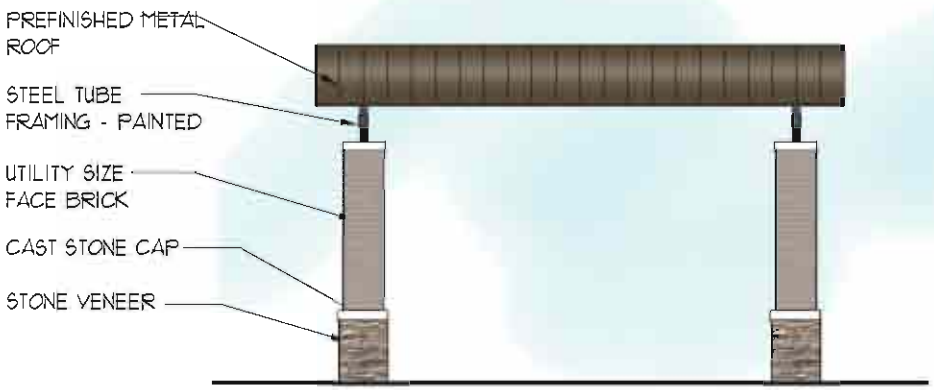
PROJECT NUMBER: 11180 DATE: 01-16-14



West Elevation



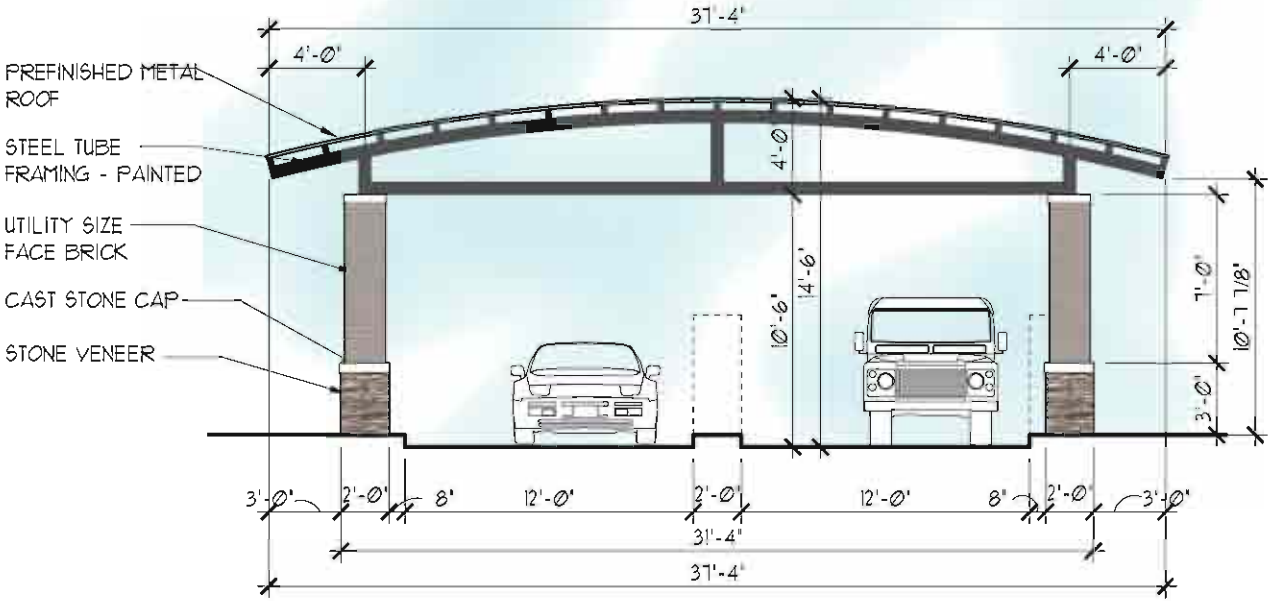
North Elevation



CARWASH ENTRY CANOPY SIDE ELEVATION

12-30-13

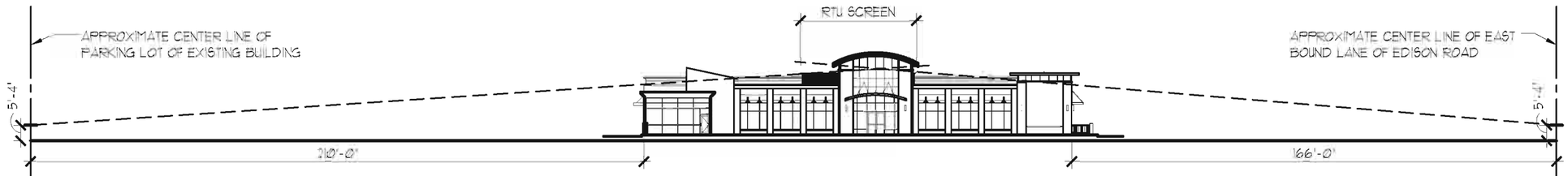
1/8"=1'-0"



CARWASH ENTRY CANOPY FRONT ELEVATION

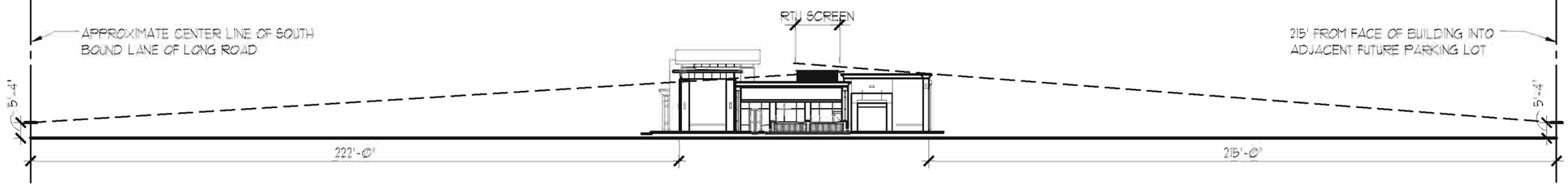
12-30-13

1/8"=1'-0"



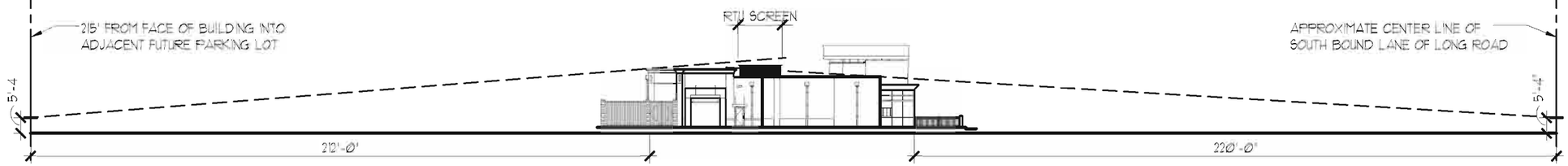
WEST ELEVATION - SIGHT LINE STUDY

1/8"=1'-0"



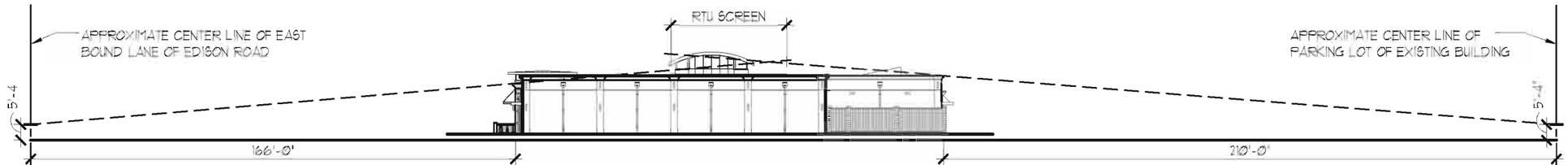
SOUTH ELEVATION - SIGHT LINE STUDY

1/8"=1'-0"



NORTH ELEVATION - SIGHT LINE STUDY

1/8"=1'-0"



EAST ELEVATION - SIGHT LINE STUDY

1/8"=1'-0"

General Contractor:

Structural Engineer:

New C-Store for:

Edison Express

Address
Chesterfield, MO 63005

ISSUE DATES:
ARB REVIEW: 12-30-13

STATE OF MISSOURI REGISTERED ARCHITECT:
DAVID WILLIAM DIAL – LICENSE NUMBER A-7339
DAVID W. DIAL ARCHITECTS, P.C.
ARCHITECTURAL CORPORATION #2001014091

THE ARCHITECTS SEAL AFFIXED TO THIS SHEET INDICATES THAT THE NAMED ARCHITECT HAS PREPARED OR DIRECTED THE PREPARATION OF THE MATERIAL SHOWN ONLY ON THIS SHEET. OTHER DRAWINGS AND DOCUMENTS, NOT EXHIBITING THIS SEAL, SHALL NOT BE CONSIDERED PREPARED BY OR THE RESPONSIBILITY OF THE UNDERSIGNED.

DIAL ARCHITECTS

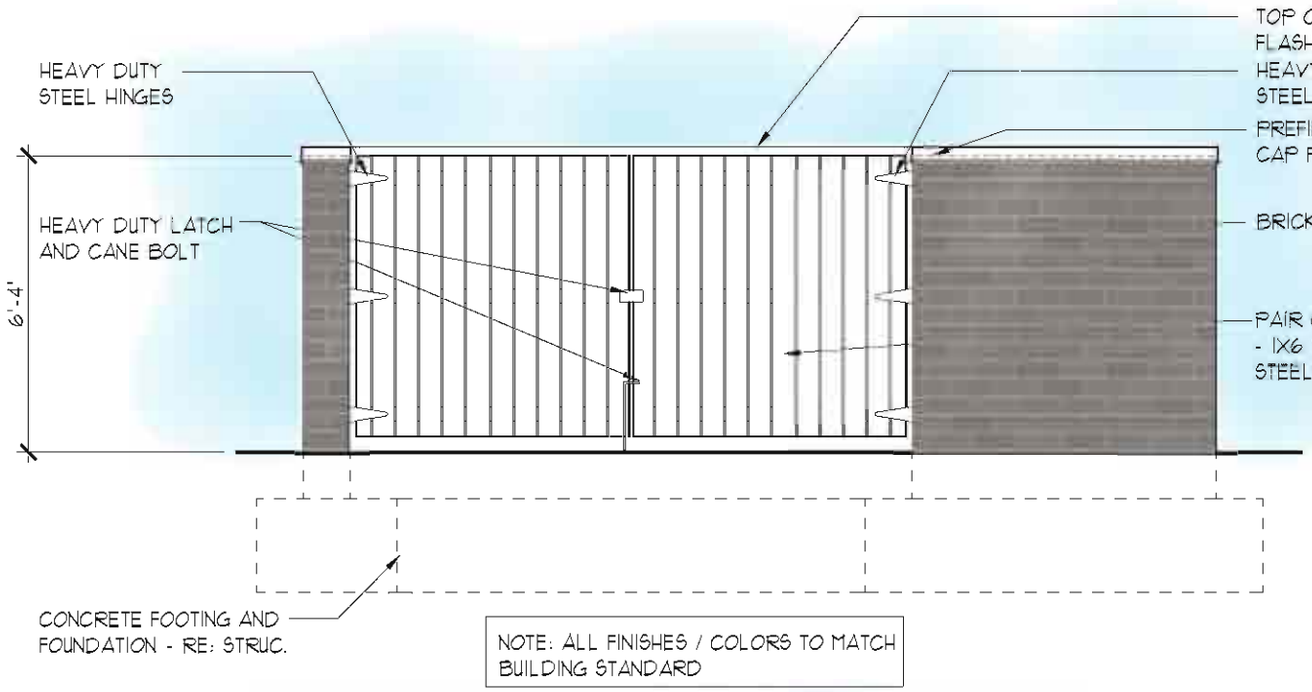
DAVID W. DIAL ARCHITECTS, P.C.
14368 Manchester Road
Suite 300
Manchester, Missouri 63011
Phone (636) 230-0400
Fax (636) 230-0401
www.dialarchitects.com

SHEET NUMBER:

SIGHT LINE STUDY

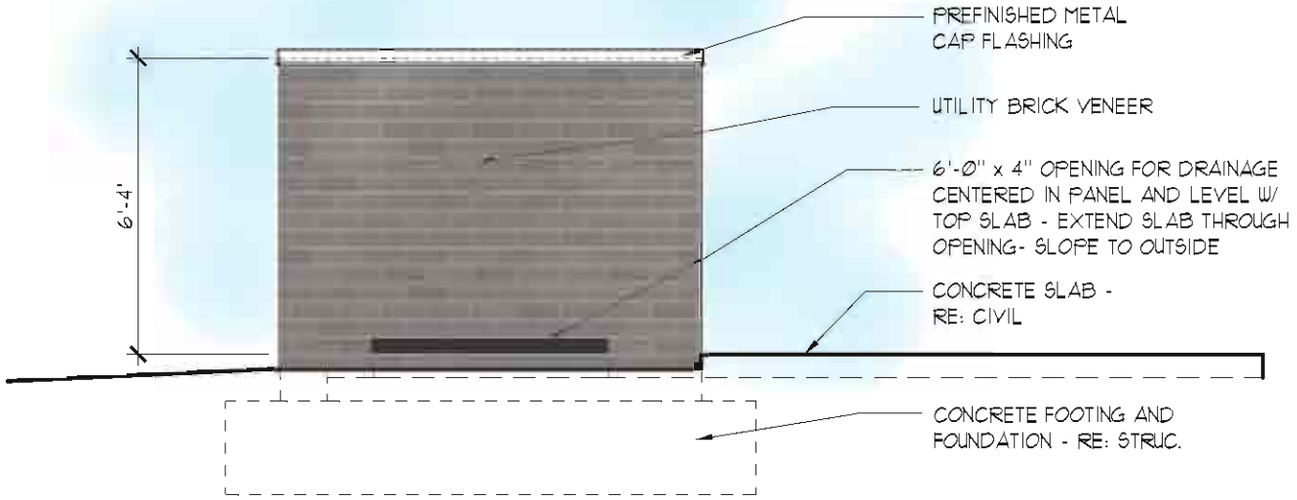
PROJECT NUMBER: 11180 DATE: 12-03-13

dial architects
14364 Manchester Road • Manchester Missouri 63011
636 230 0400 www.dialarchitects.com



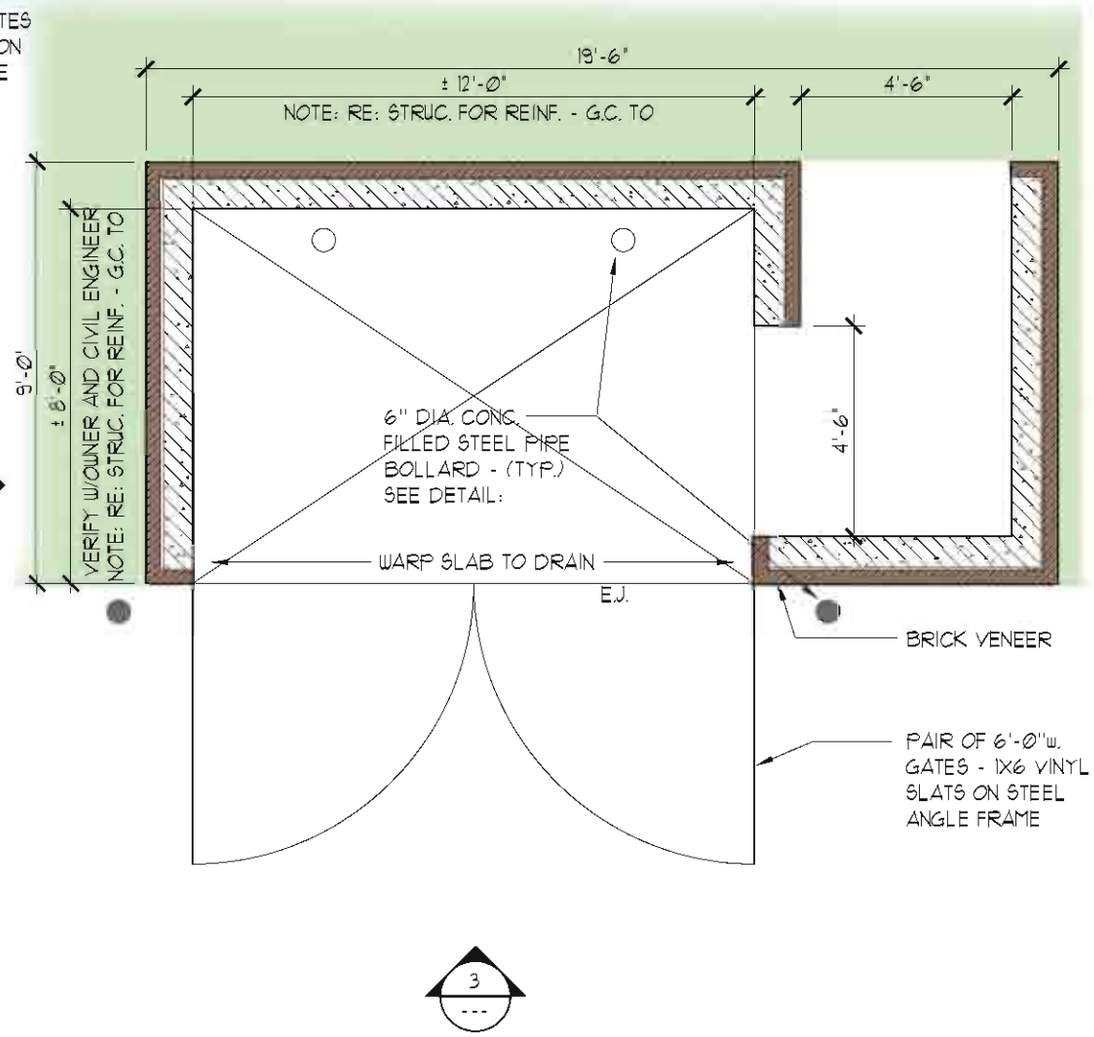
3 FRONT ELEVATION

1/4"=1'-Ø"



2 SIDE ELEVATION

1/4"=1'-Ø"



1 DUMPSTER PLAN

1/4"=1'-Ø"

New C-Store for:

Edison Express

Chesterfield, Missouri 63005

DATE:
12-30-13
DDA PROJECT NUMBER:
11180

DUMPSTER DETAILS

LANDSCAPE PLAN

SCALE 1" = 20'

NOTE: Open space percentage = 35.0%

BIO-RETENTION PLANTINGS - BASIN #2 (4,235 s.f.)

QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
599	Carex praegracilis	Tollney Sedge	2"x2"x5"	POT 18" O.C.
599	Carex shortiana	Short's Sedge	2"x2"x5"	POT 18" O.C.
599	Sporobolus heterolepis	Prairie Dropseed Grass	2"x2"x5"	POT 18" O.C.
599	Iris virginica	Southern Blueflag Iris	2"x2"x5"	POT 18" O.C.
599	Rudbeckia fulgida	Orange Coneflower	2"x2"x5"	POT 18" O.C.

Note: Plugs to be planted in clusters of 12-18

PLANTING SCHEDULE

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	FORM/SPACE	ROOT	GROWTH RATE/HT
TREES							
A	5	Gleditsia triacanthos 'inermis'	Thornless Honeylocust	2 1/2"	B&B	FAST	45'+
B	16	Cercis canadensis	Redbud	2 1/2"	B&B	FAST	25-30'
C	10	Tilia cordata	Littleleaf Linden	2 1/2"	B&B	SLOW	45'+
D	4	Quercus bicolor	Swamp White Oak	2 1/2"	B&B	MED	45'+
E	14	Carpinus caroliniana	American Hornbeam	2 1/2"	B&B	MED.	20-35'
F	2	Acer rubrum 'Frankred'	Red Sunset Maple	2 1/2"	B&B	FAST	45'+
G	5	Carpinus betulus	European Hornbeam	2 1/2"	B&B	SLOW	35-40'
H	8	Picea glauca	White Spruce	6-8'	B&B	MED.	30-40'
J	25	Platycladus orientalis 'Holmstrup'	Holmstrup Oriental Arborvitae	5-6'	B&B	SLOW	10-15'
SHRUBS & LARGE GRASSES							
a	67	Itea virginica 'Sprich'	Little Henry Sweetspire	3 gal.			
b	59	Juniperus x pfitzeriana 'Sea Green'	Sea Green Juniper	5 gal.			
c	38	Rhus aromatica 'Gro-Low'	Gro-Low Sumac	3 gal.			
d	123	Buxus 'Green Velvet'	Green Velvet Boxwood	5 gal.			
e	15	Rosa 'Radrazz'	Knockout Rose	5 gal			
f	40	Calamagrostis acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	5 gal.			
g	3	Hydrangea paniculata 'Jane'	Little Lime Hydrangea	5 gal.			
h	27	Miscanthus sinensis 'Yaku Jima'	Yaku Jima Dwarf Maiden Grass	3 gal			
i	17	Weigela florida 'Alexandra'	Wine and Roses Weigela	5 gal.			
k	5	Ilex 'Mesog/Meodob'	China Girl/Boy Holly	7 gal.			
PERENNIALS							
aa	355	Vinca minor 'Bowles'	Bowles Periwinkle	1 gt.			
bb	60	Liriope muscari 'Big Blue'	Big Blue Lilyturf	1 gal.			
cc	10	Hemerocallis 'Stella de Oro'	Stella de Oro Daylily	1 gal.			

NOTE: An inground irrigation system will be provided for all landscape areas.

MITIGATION PLANTING SCHEDULE

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	FORM/SPACE	ROOT	GROWTH RATE/HT
E1	4	Carpinus caroliniana	American Hornbeam	2 1/2"	B&B	SLOW	20-35'
F1	2	Acer rubrum 'Frankred'	Red Sunset Maple	2 1/2"	B&B	FAST	45'+
K1	2	Taxodium distichum	Bald Cypress	2 1/2"	B&B	MED.	45'+

Consultants:

Revisions:

Date	Description	No.
11/19/13	City Comments	1
12/30/13	City Comments	2

Drawn: BAR
Checked: JAS

loomisAssociates
landscapeArchitectsplanners

Sheet Title: Landscape Plan
Sheet No: L-1
Date: 09/30/13
Job #: 584.013

Edison Express
Chesterfield, MO

JLA Development, LLC

CONCEPTUAL LANDSCAPE PLAN

SCALE 1" = 40'

PLANTING SCHEDULE

symbol	quantity	botanical name	common name	size	remarks	rate	mature height
A	5	Gleditsia triacanthos "Inermis"	Thornless Honeylocust	2 1/2"	B&B	FAST	45'+
B	4	Acer x freemanii Armstrong	Armstrong Maple	2 1/2"	B&B	FAST	45'+
C	5	Tilia cordata	Littleleaf Linden	2 1/2"	B&B	SLOW	45'+
D	5	Quercus bicolor	Swamp White Oak	2 1/2"	B&B	MED.	45'+
E	5	Carpinus caroliniana	American Hornbeam	2 1/2"	B&B	MED.	20-35'
G	5	Carpinus betulus	European Hornbeam	2 1/2"	B&B	SLOW/MED	35-40'

Consultants:

Monarch Center
Chesterfield, MO

Revisions:

Date	Description	No.
11/19/13	City Comments	1
12/30/13	City Comments	2

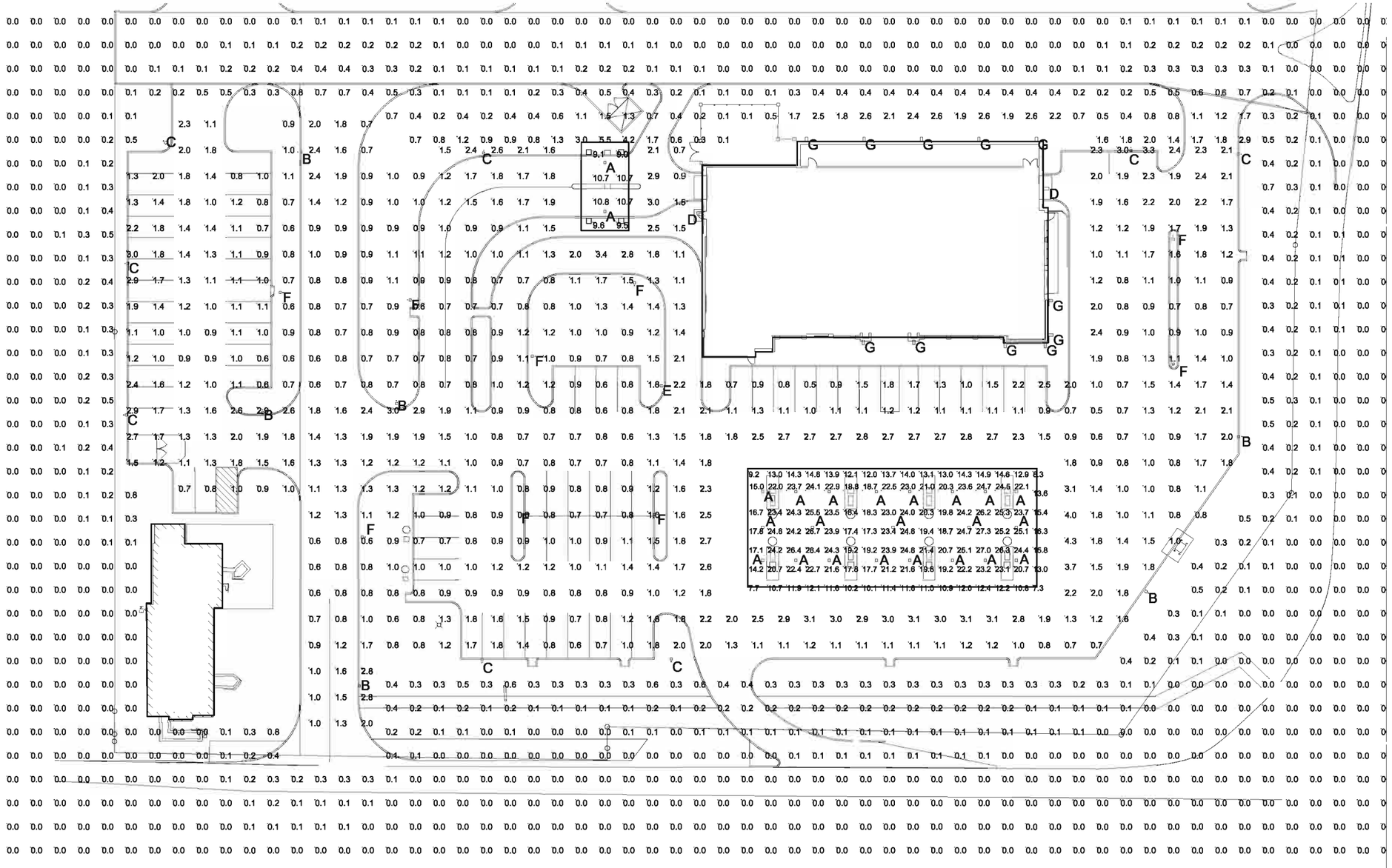
Drawn: BAR
Checked: JAS

loomisAssociates
landscape architects/planners

Sheet Title: Conceptual Landscape Plan

Sheet No: CL-1

Date: 10/04/13
Job #: 584.013



PHOTOMETRIC PLAN
1"=20'

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Canopy	+	18.9 fc	27.3 fc	7.3 fc	3.7:1	2.6:1
Car Wash Canopy	+	10.0 fc	10.8 fc	9.0 fc	1.2:1	1.1:1
Parking Lot	+	1 fc	4 fc	1 fc	4.0:1	1.0:1
To Property Line	+	0.1 fc	5.5 fc	0.0 fc	N / A	N / A

NOTES

1. Mounting height of 20' (18'pole, 2'base)
   Canopy and wall mounted lights mounted at 15'
2. Calculations taken at ground level.

LUMINAIRE SCHEDULE

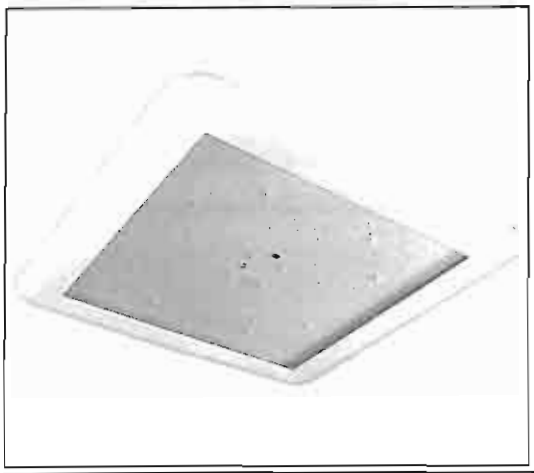
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	Ll
	A	23	CRU-SC-LED-LW-CW-UE			CRU-SC-LED- LW-CW- UE.IES	Absolute	0.9
	B	6	XPTS3-FT-LED-63-LW-CW-UE			XPTS3-FT-LED- -63-LW-CW- UE.ies	Absolute	0.9
	C	8	XPTS3-FT-LED-63-LW-CW-UE			XPTS3-FT-LED- -63-LW-CW- UE.ies	Absolute	0.9
	D	12	XPWS3-WW-LED-28-350-CW-UE			XPWS3-WW- LED-28-350- CW-UE.ies	Absolute	0.9
	E	1	XPTS3-FT-LED-63-LW-CW-UE			XPTS3-FT-LED- -63-LW-CW- UE.ies	Absolute	0.9
	F	9	XPTS3-5-LED-63-LW-CW-UE			XPTS3-5-LED- 63-LW-CW- UE.ies	Absolute	0.9
	G	11	P6W-G-1-F15			TMS Lighting Inc.		

STATE OF MISSOURI
DAVID WILLIAM DIAL
NUMBER A-7331
REGISTERED ARCHITECT

12-30-2013

LED CANOPY LIGHT - LEGACY™ (CRU)

Crossover LED LIGHTING TECHNOLOGY



US & Int'l. patents pending.

SMARTTEC™ ENERGY SAVING FEATURES

THERMAL CONTROL - LSI drivers feature integral sensor which reduces drive current, when ambient temperatures exceeds rated temperature.

HOUSING - Low profile, durable die-cast, aluminum construction, providing a reliable weather-tight seal.

LEDS - Features an array of select, mid-power, high brightness, high efficiency LED chips; 5300°K color temperature, 70 CRI (nominal).

DRIVE CURRENT - Choice of Low Wattage (LW), Mid Wattage (MW), Super Saver (SS), High Output (HO), or Very High Output (VHO).

OPTICS / DISTRIBUTION - Symmetrical, which directs light through a clear tempered glass lens, to provide a uniform distribution of light to vertical and horizontal surfaces.

OPTICAL UNIT - Features an ultra-slim 3/4" profile die cast housing, with a flat glass lens. Unit is water-resistant, sealed to an IP67 rating. Integral designed heat sink does not trap dirt and grime, ensuring cool running performance over the life of the fixture.

PRESSURE STABILIZING VENT - Luminaire assembly incorporates a pressure stabilizing vent breather to prevent seal fatigue and failure.

HAZARDOUS LOCATION - Designed for lighter than air fuel applications. Product is suitable for Class 1 Division 2 only when properly installed per LSI installation instructions.

DRIVER - State-of-the-art driver technology superior energy-efficiency and optimum light output. LSI driver components are fully encased in potting for IP65 moisture resistance. Complies with IEC and FCC standards. Surge protected at 10KV.

DRIVER HOUSING - Die cast aluminum, wet location rated driver/electrical enclosure is elevated above canopy deck to prevent water entry, provide easy "knock-out" connection of primary wiring and contributes to attaining the lowest operating temperatures available. Seals to optical housing via one-piece molded silicone gasket.

OPERATING TEMPERATURE - -40°C to 50°C (-40°F to +122°F)

ELECTRICAL - Universal voltage power supply, 120-277 VAC, 50/60 HZ input. LSI drivers feature two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Scenario 1, Location Category C.

FINISH - Standard color is white and is finished with LSI's DuraGrip polyester powder coat process. DuraGrip withstands extreme weather changes without cracking or peeling.

INSTALLATION - One person installation. No additional sealant required. Installs in a 12" or 16" deck pan. Deck penetration consists of a 4" hole, simplifying installation and water sealing. Unit is designed to quickly retrofit into existing Scottsdale (4") hole as well as openings for Encore and Encore Top Access and to reconnect wiring for the SC/ECTA without having to relocate the conduit. Retro panels are available for existing Encores (see back page) as well as kits for recessed and 2x2 installations (see separate spec sheets). Support brackets are provided standard, to prevent sagging of deck.

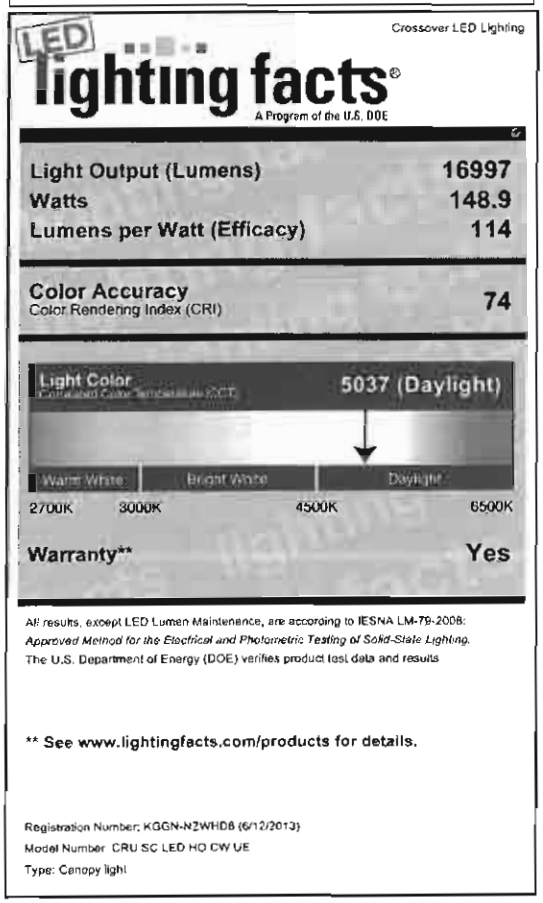
SHIPPING WEIGHT - 25 pounds (single pack), 50 pounds (double pack).

EXPECTED LIFE - Minimum 60,000 to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

WARRANTY - Limited 5-year warranty.

LISTING - UL and ETL listed to UL 1598, UL 8750 and other U.S. and International safety standards. Suitable for wet locations.

PHOTOMETRICS - Applications layouts are available upon request. Contact LSI Petroleum Lighting or petroleum.apps@lsi-industries.com



Class 1, Division 2 – Standard on HO, SS, MW & LW only

T5 Temperature Classification – The surface temperature of this product will not rise above 100°C., within a 40°C ambient.

Gas Groups A,B,C, and D – Group A: Acetylene / Group B: Hydrogen / Group C: Propane and Ethylene / Group D: Benzene, Butane, Methane & Propane.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.

American Innovation — American Made | RoHS COMPLIANT | ETL Intertek wet location | DLC LISTED | IP67 | CE | cULus LISTED wet location | ida

LSI Industries™ American Innovation Through Technology

Project Name MONARCH CENTER - EDISON EXPRESS Fixture Type 'A'

Catalog # CRU-SC-LED-LW-CW-UE-WHT

09/16/13

LED CANOPY LIGHT - LEGACY™ (CRU)

Crossover® LED LIGHTING TECHNOLOGY

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **CRU SC LED SS CW UE WHT**

Prefix	Distribution	Light Source	Drive Current	Color Temperature	Input Voltage	Finish	Options
CRU	SC - Standard Symmetric	LED	LW - Low Watt MW - Mid Wattage SS - Super Saver HO - High Output VHO - Very High Output	CW - Cool White	UE - Universal Voltage (120-277V) 347-347V[1]	WHT - White BRZ - Bronze BLK - Black	2L - Bi-Level Switching[2]

FOOTNOTES:
1- 347V only available in HO drive current.
2- Bi-Level available on "HO" drive current only.

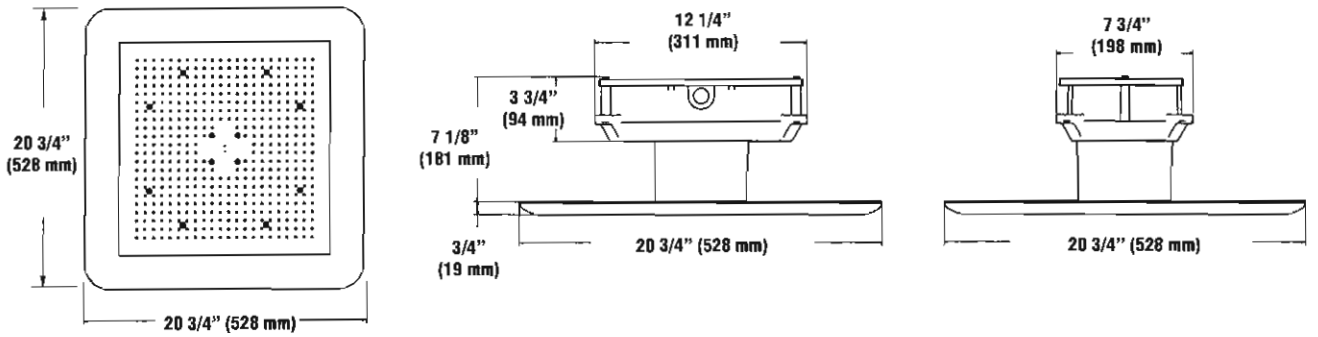
ACCESSORY ORDERING INFORMATION (Accessories are field installed)

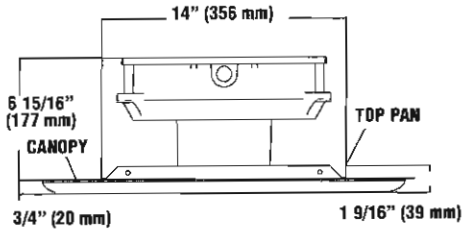
Description	Order Number
Retrofit Panels - EC / ECTA / SCF to CRU, for 16" Deck Panel	525946
Retrofit Panels - ECTA / SCF to CRU, for 12" Deck Panel	530281
Retrofit 2x2 Cover Panel Blank (no holes)	357282
Retrofit RIC Cover Panel Blank (no holes)	354702

Description	Order Number
Kit - Hole Plugs and Silicone (enough for 25 retrofits)[1]	1320540
CRU FKL - Flange Kit[2]	537530WHT

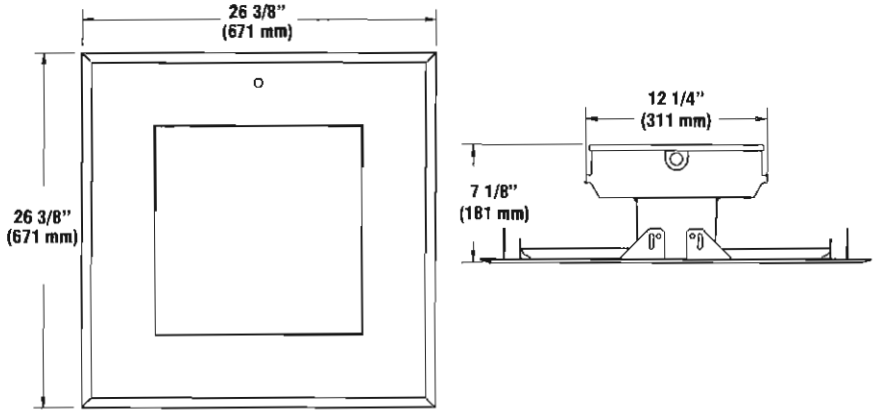
1- Consists of (25) 7/8" hole plugs and (1) 10.3 oz tube of RTV
2- Flange Kit used to mount CRU in double deck applications

DIMENSIONS





Retrofit Panels Installed



CRU FKL (for double deck applications)

LIGHT OUTPUT - CRU

		Lumens	Watts	LPW
Cool White	LW - Low Watt	8,438	76	111
	MW - Mid Watt	11,656	103	113
	SS - Super Saver	13,638	129	106
	HO - High Output	17,001	149	114
	VHO - Very High Output	20,997	192	109

LED AREA LIGHTS - PATRIOT® SMALL (XPTS3)

Crossover LED LIGHTING TECHNOLOGY

US patent 7828456, 7952293, 8002428, 8177386 and CAN 2736757 and MX patent 29631 and ISRL 49679 and AUS 2008312668 and US & Int'l. patents pending

SMARTTEC™ THERMAL CONTROL - Sensors in the driver enclosure reduce driver current when ambient temperatures exceed 50ºC. Current is lowered in imperceptible 5% increments every 5 minutes until safe temperature is reached.

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - Select high-brightness LEDs in Cool White (5800ºK nominal) or Neutral White (4000ºK nominal) color temperature. 70 CRI (nominal)

DISTRIBUTION/PERFORMANCE - Types 2, 3, FT and 5. Exceptional uniformity creates bright environment at lower light levels. Improved backlight cutoff minimizes light trespass.

HOUSING - One-piece, die-cast aluminum in a multi-radiused, rectangular shape with mounting arm cast in as an integral part of the housing. All hardware is stainless steel or electro-zinc plated steel.

OPTICAL UNIT - Clear tempered optical grade flat glass lens sealed to die-cast aluminum door assembly. Secures to housing with stainless steel hinge bracket. Integral over-center latch allows easy tool-less access to driver. Optic provided with catch mechanism that limits door swing. One-piece extruded silicone gasket seals optical assembly against the housing.

MOUNTING - Use with 5" traditional drilling pattern. Integral cast mounting arm is flat for square pole applications. Use round pole adaptor (RPPC) to mount to round poles. RPPC must be ordered separately. Extruded 6" arm extension is available (but not required).

ELECTRICAL - Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277VAC (UE-50-60Hz input) and 347-480VAC. Optional button- type photocells (PCI) are available in 120, 208, 240, 277 or 347 volt (supply voltage must be specified). Fixture watts (nominal): LW - 54, SS - 75.

DRIVER - Available in LW (low wattage) and SS (super saver) drive currents. (Drive currents are factory programmed.) State-of-the-art driver technology designed specifically for LSI LED light sources provides unsurpassed system efficiency. Componerts are fully encased in potting material for IP65 moisture resistance. Driver complies with requirements of FCC title 47CFR Part 15, Class A and B: Part 18, Class A.

OPERATING TEMPERATURE - -40ºC to +50ºC (-40ºF to +122ºF)

FINISH - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling, and is guaranteed for five full years. Standard colors include bronze, black, platinum plus, graphite, satin verde green, metallic silver and white. Meets requirements of ASTM B117 1000-hour salt fog and ASTM G155 1000-hour Xenon Arc UV tests (supersedes G53-UVB313).

WARRANTY - LSI LED fixtures carry a limited 5-year warranty.

PHOTOMETRICS - Application layouts are available upon request. Contact LSI Applications Group at lighting.apps@lsi-industries.com

SHIPPING WEIGHT - 30 lbs./13.6Kg

LISTING - ETL listed to U.S. and Canadian safety standards. Suitable for wet locations.

LIGHT OUTPUT - XPTS3

		# of LEDS	Lumens (Nominal) Type 2	Type 3	Type FT	Type 5
Cool White	LW	63	4300	4100	4500	3300
	SS	63	5400	5100	5600	4200
Neutral White	LW	63	3700	3800	4000	2900
	SS	63	4900	5000	5100	3900

This product, or selected versions of this product, meet the standards listed below.
Please consult factory for your specific requirements.

American Innovation American Made · ETL us Intertek Suitable for wet locations · RoHS COMPLIANT · FC · ARRA Funding Compliant · CE · IP65

LED AREA LIGHTS - PATRIOT® SMALL (XPTS3)

Crossover LED LIGHTING TECHNOLOGY

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XPTS3 FT LED 63 SS CW UE WHT PCI120**

Prefix	Distribution	Light Source	# of LEDs	Drive Current	Color Temperature	Input Voltage	Finish	Options
XPTS3 - LED Patriot Small	2- Type II 3 - Type III FT - Forward Throw 5 - Type V	LED	63	SS - Super Saver LW - Low Watt	CW - Cool White NW - Neutral White	UE - Universal Voltage (120-277) 347-480	BLK - Black BRZ - Bronze GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White	PCI120 - 120V Button-Type Photocell PCI208-277 - 208-277V Button-Type Photocell PCI347 - 347V Button-Type Photocell TB - Terminal Block

LUMINAIRE EPA CHART - XPT3

Single	1.1
D180°	2.1
D90°	1.6
T90°	2.7
TN120°	2.8
Q90°	3.2

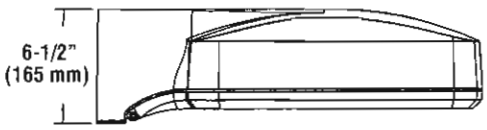
Note: House Side Shield adds to fixture EPA. Consult Factory.

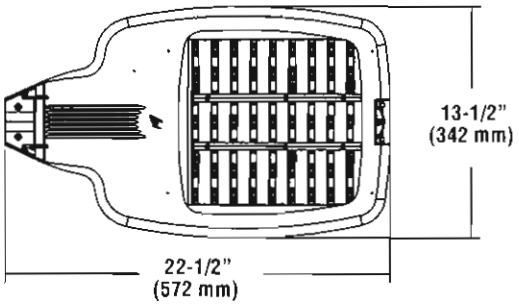
ACCESSORY ORDERING INFORMATION (Accessories are field installed)

Description	Order Number	Description	Order Number
RPPC - Round Pole Plate	141940CLR	XPTS3 HSS - House Side Shield Type 2, 3, FT	5168508LK++
FK120 - Single Fusing	FK120+	XPTS3 PLS - Polycarbonate Shield	263016
FK277 - Single Fusing	FK277+	BKS-BO-PTS-WM-*-CLR - Wall Mount Plate	263230CLR
DFK208, 240 - Double Fusing	DFK208,240+	BKA-BO-PTS-EC-6-CLR - Extension Arm	263228CLR
DFK480 - Double Fusing	DFK480+	BKA-BO-RA-8-CLR - Radius Arm	169010CLR
FK347 - Single Fusing	FK347+	BKU-BO-S-19-CLR - Upsweep Bracket for Round and Square Poles	144191CLR

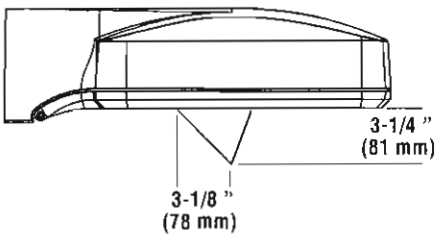
NOTES: +Fusing must be located in the hand hole of pole. ++Black only.

DIMENSIONS





House Side Shield (HSS)
Rear Mounted (516850 BLK)



LED AREA LIGHTS - PATRIOT® SMALL (XPTS3)

Crossover LED LIGHTING TECHNOLOGY

US patent 7828456, 7952293, 8002428, 8177386 and CAN 2736757 and MX patent 29631 and ISRL 49679 and AUS 2008312668 and US & Int'l. patents pending

SMARTTEC™ THERMAL CONTROL - Sensors in the driver enclosure reduce driver current when ambient temperatures exceed 50°C. Current is lowered in imperceptible 5% increments every 5 minutes until safe temperature is reached.

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - Select high-brightness LEDs in Cool White (5800°K nominal) or Neutral White (4000°K nominal) color temperature. 70 CRI (nominal)

DISTRIBUTION/PERFORMANCE - Types 2, 3, FT and 5. Exceptional uniformity creates bright environment at lower light levels. Improved backlight cutoff minimizes light trespass.

HOUSING - One-piece, die-cast aluminum in a multi-radiused, rectangular shape with mounting arm cast in as an integral part of the housing. All hardware is stainless steel or electro-zinc plated steel.

OPTICAL UNIT - Clear tempered optical grade flat glass lens sealed to die-cast aluminum door assembly. Secures to housing with stainless steel hinge bracket. Integral over-center latch allows easy tool-less access to driver. Optic provided with catch mechanism that limits door swing. One-piece extruded silicone gasket seals optical assembly against the housing.

MOUNTING - Use with 5" traditional drilling pattern. Integral cast mounting arm is flat for square pole applications. Use round pole adaptor (RPPC) to mount to round poles. RPPC must be ordered separately. Extruded 6" arm extension is available (but not required).

ELECTRICAL - Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277VAC (UE-50-60Hz input) and 347-480VAC. Optional button- type photocells (PCI) are available in 120, 208, 240, 277 or 347 volt (supply voltage must be specified). Fixture watts (nominal): LW - 54, SS - 75.

DRIVER - Available in LW (low wattage) and SS (super saver) drive currents. (Drive currents are factory programmed.) State-of-the-art driver technology designed specifically for LSI LED light sources provides unsurpassed system efficiency. Components are fully encased in potting material for IP65 moisture resistance. Driver complies with requirements of FCC title 47CFR Part 15, Class A and B: Part 18, Class A.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F)

FINISH - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling, and is guaranteed for five full years. Standard colors include bronze, black, platinum plus, graphite, satin verde green, metallic silver and white. Meets requirements of ASTM B117 1000-hour salt fog and ASTM G155 1000-hour Xenon Arc UV tests (supersedes G53-UVB313).

WARRANTY - LSI LED fixtures carry a limited 5-year warranty.

PHOTOMETRICS - Application layouts are available upon request. Contact LSI Applications Group at lighting.apps@lsi-industries.com

SHIPPING WEIGHT - 30 lbs./13.6Kg

LISTING - ETL listed to U.S. and Canadian safety standards. Suitable for wet locations.

LIGHT OUTPUT - XPTS3

		# of LEDS	Lumens (Nominal) Type 2	Type 3	Type FT	Type 5
Cool White	LW	63	4300	4100	4500	3300
	SS	63	5400	5100	5600	4200
Neutral White	LW	63	3700	3800	4000	2900
	SS	63	4900	5000	5100	3900

This product, or selected versions of this product, meet the standards listed below.
Please consult factory for your specific requirements.

American Innovation American Made · ETL us Intertek Suitable for wet locations · RoHS COMPLIANT · FC · ARRA Funding Compliant · CE · IP65

LSI Industries™ American Innovation Through Technology

Project Name MONARCH CENTER - EDISON EXPRESS Fixture Type 'C'

Catalog # XPTS3-FT-LED-63-SS-CW-UE-BLK-XPTS3-HSS

06/17/13

LED AREA LIGHTS - PATRIOT® SMALL (XPTS3)

Crossover LED LIGHTING TECHNOLOGY

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XPTS3 FT LED 63 SS CW UE WHT PCI120**

Prefix	Distribution	Light Source	# of LEDs	Drive Current	Color Temperature	Input Voltage	Finish	Options
XPTS3 - LED Patriot Small	2- Type II 3 - Type III FT - Forward Throw 5 - Type V	LED	63	SS - Super Saver LW - Low Watt	CW - Cool White NW - Neutral White	UE - Universal Voltage (120-277) 347-480	BLK - Black BRZ - Bronze GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White	PCI120 - 120V Button-Type Photocell PCI208-277 - 208-277V Button-Type Photocell PCI347 - 347V Button-Type Photocell T8 - Terminal Block

LUMINAIRE EPA CHART - XPT3

Single	1.1
D180°	2.1
D90°	1.6
T90°	2.7
TN120°	2.8
Q90°	3.2

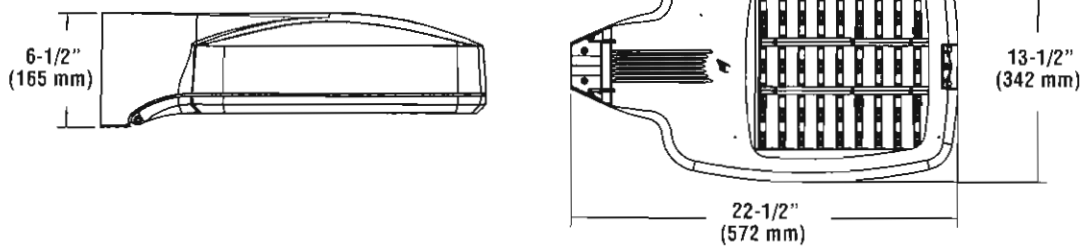
Note: House Side Shield adds to fixture EPA. Consult Factory.

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

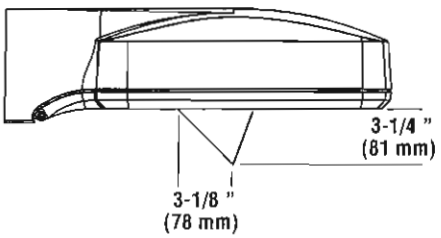
Description	Order Number	Description	Order Number
RPPC - Round Pole Plate	141940CLR	XPTS3 HSS - House Side Shield Type 2, 3, FT	516850BLK++
FK120 - Single Fusing	FK120+	XPTS3 PLS - Polycarbonate Shield	263016
FK277 - Single Fusing	FK277+	BKS-BO-PTS-WM-*-CLR - Wall Mount Plate	263230CLR
DFK208, 240 - Double Fusing	DFK208,240+	BKA-BO-PTS-EC-6-CLR - Extension Arm	263228CLR
DFK480 - Double Fusing	DFK480+	BKA-BO-RA-8-CLR - Radius Arm	169010CLR
FK347 - Single Fusing	FK347+	BKU-BO-S-19-CLR - Upsweep Bracket for Round and Square Poles	144191CLR

NOTES: +Fusing must be located in the hand hole of pole. ++Black only.

DIMENSIONS

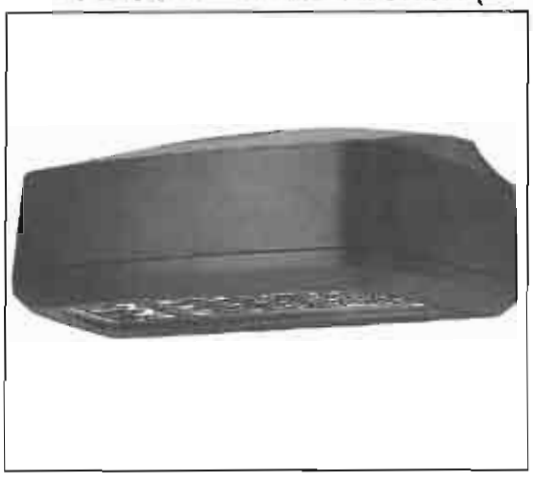


House Side Shield (HSS)
Rear Mounted (516850 BLK)



LED PATRIOT® WALL SCONCE (XPWS3)

Crossover LED LIGHTING TECHNOLOGY



US patent 7828456, 8002428 and CAN 2736757 & 2736757 and MX patent 29631 and ISRL 49679 and AUS 2008312668 and US & Int'l. patents pending

SMARTTEC™ ENERGY SAVING FEATURES:

THERMAL CONTROL - Sensors in both optical and driver enclosure reduce driver current when ambient temperatures exceed 50°C. Current is lowered in imperceptible 5% increments every 5 minutes until safe operating temperature is reached.

OPTIONAL INTEGRAL MOTION SENSOR - Passive infrared motion sensor activates switching of luminaire light levels. High level light is activated when passersby enter target zone and increased to full bright in 1-2 seconds. Low light level (30% of maximum drive current) is activated when target zone is absent of motion activity for 5 minutes and is gradually ramped down (10 seconds) to low level. Sensor detection range 110° horizontal x 93° vertical x 10 meters maximum distance.

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - Available with 28 or 48 select high-brightness LEDs in Cool White (5300°K nominal) or Neutral White (4200°K nominal) color temperature, 70 CRI (nominal).

OPTICS/DISTRIBUTIONS - Ultra-high efficiency reflectors provide three distributions. Choose from Wide Throw (WT), Forward Throw (FT) or Wall Wash (WW).

HOUSING - One-piece die-cast aluminum housing is smoothly contoured rectangular shape. Mounting hardware is stainless steel or electro-zinc plated steel. Housing and optical unit are sealed with extruded silicone gasket; supply conductors with molded EPDM bushing.

OPTICAL UNIT - Clear tempered optical-grade flat glass lens sealed to the aluminum optic housing creates an IP65 rated unit. Pressure stabilizing breather allows super-tight protection while preventing cycling from building up internal pressures and vacuums that can stress optical unit seals.

WALL MOUNTING - Galvanized-steel universal wall mounting plate easily mounts directly to 4" octagonal or square junction box. EPDM gasket is supplied to be installed between mounting plate and junction box, sealing junction box from entrance of water. Universal plate permits fixture to be mounted in uplighting (indoor only) or downlighting position.

POLE MOUNTING - XPMA (for square) or XPMAR (for round) allows mounting to poles in single and D180 configurations. Use with 3" reduced drilling pattern.

ELECTRICAL - Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277VAC (50/60Hz input) or 347-480VAC.

DRIVER - Available in 350mA and 450mA drive currents (Drive currents are factory programmed). Components are fully encased in potting material for IP65 moisture resistance. Driver complies with IEC and FCC standards. Driver can be easily accessed and removed.

EMERGENCY OPTIONS - Integral emergency battery-back-up options are available. BB option operates in 0°C to 60°C ambient temperature and CWBB operates in -20°C to 60°C ambient temperature. When primary AC power failure occurs, both options operate 10 LEDs for minimum of 90 minutes.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F)

FINISH - LSI's DuraGrip® polyester powder coat finishing process withstands extreme weather changes without cracking or peeling. Guaranteed for five full years.

WARRANTY - LSI LED fixtures carry a limited 5-year warranty.

PHOTOMETRICS - Application layouts are available upon request. Contact LSI Applications Group at lighting.apps@lsi-industries.com

SHIPPING WEIGHT (in carton) - 30 lbs./13.6Kg

LISTING - ETL listed to ANSI/UL1598, UL8750 and other U.S. and international safety standards. Suitable for wet locations in downlight position. Optional Class 1 Division 2 (groups A, B, C &D) hazardous location rating is available. (Select HL option)

Crossover LED Lighting

lighting facts®
A Program of the U.S. DOE

Light Output (Lumens)	4020
Watts	53
Lumens per Watt (Efficacy)	76
Color Accuracy Color Rendering Index (CRI)	67
Light Color Correlated Color Temperature (CCT)	5320 (Daylight)

Warm White | Bright White | Daylight
2700K 3000K 4500K 6500K

All results are according to IESNA LM-79-2008: *Approved Method for the Electrical and Photometric Testing of Solid-State Lighting*. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit **www.lightingfacts.com** for the ***Label Reference Guide***.

Registration Number: KGGN-V1H7ZA
Model Number: XPWS3 FT LED 48 350 CW UE
Type: Outdoor wall pack

LIGHT OUTPUT - XPWS3

Milliamps	# of LEDs	Distribution/Lumens (Nominal) Type FT	Type WT	Type WW	Watts
Cool White 350 mA	28	3100	3000	3200	34
	48	5100	5100	5200	55
Cool White 450 mA	28	3700	3600	3800	44
	48	6200	6100	6300	72
Neutral White 350 mA	28	2900	2900	3100	34
	48	4900	4800	4900	55
Neutral White 450 mA	28	3500	3500	3700	44
	48	5800	5700	5800	72

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.

RoHS COMPLIANT IP65 American Innovation American Made CE ETL c us Intertek

ARRA Funding Compliant DESIGNLIGHTS CONSORTIUM

Suitable for wet locations (downlight only)

LSI Industries™ American Innovation Through Technology

Project Name MONARCH CENTER - EDISON EXPRESS Fixture Type 'D'

Catalog # XPWS3-WW-LED-28-350-CW-UE-BLK

06/20/13

LED PATRIOT® WALL SCONCE (XPWS3)

Crossover LED LIGHTING TECHNOLOGY

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XPWS3 FT LED 48 450 CW UE WHT BB**

Prefix	Distribution	Light Source	# of LEDs	Drive Current	Color Temperature	Input Voltage	Finish	Options
XPWS3 - LED Patriot Wall Sconce	WT - Wide Throw FT - Forward Throw WW - Wall Wash	LED	28 48	350 - 350mA 450 - 450mA	CW - Cool White NW - Neutral White	UE - Universal Voltage (120-277) 347-480	BLK - Black BRZ - Bronze GPT - Graphite MSV - Metalic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White	BB - Battery Back-up[1] CWBB - Cold Weather Battery Back-up[1] IMS - Integral Motion Sensor EMR2 - Two Emergency 12V Circuit Provisions with (2) 35 Watt Halogen Lamps[2] PCI 120 - Button Type Photocell PCI 208 - Button Type Photocell PCI 240 - Button Type Photocell PCI 277 - Button Type Photocell PCI 347 - Button Type Photocell HL - Class1, Division2, Hazardous Location Rating. ETL listed to UL844[3] XPMA - Pole Mounting Adaptor w/fixture backplate for use with square poles[4] XPMAR4 - Pole Mounting Adaptor w/fixture backplate for use with 4" O.D. round poles[4] XPMAR5 - Pole Mounting Adaptor w/fixture backplate for use with 5" O.D. round poles[4]

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

Description	Order Number
XPWS3 Polycarbonate Shield	244657
XPWS3 SW BLK - Surface Wiring Box (Available in black only)	356915BLK

FOOTNOTES:

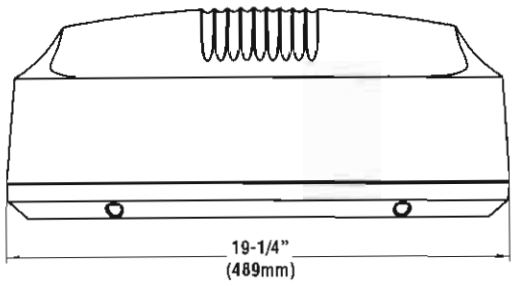
1- Available with UE voltage only.

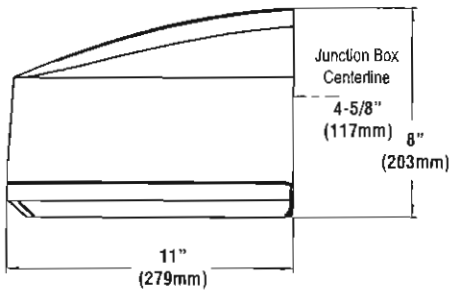
2 - Utilizes GZ4 sockets. 12 volt separate circuits required. Not available with battery back-up, photocell option, HL, XPMA or XPMAR options.

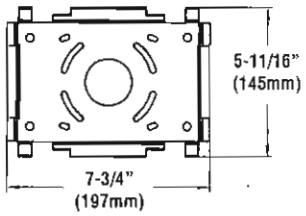
3 - Not available with battery backup, photocell or EMR2 option.

4 - Not available with EMR2 option. Designed with 3" reduced drilling pattern. For S or D180 mounting configuration only.

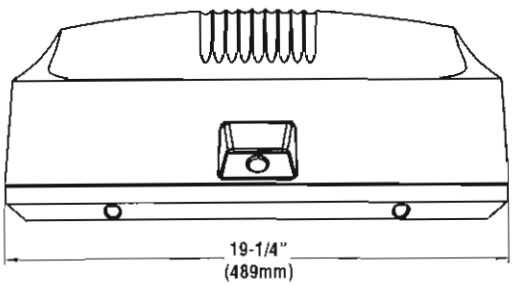
DIMENSIONS



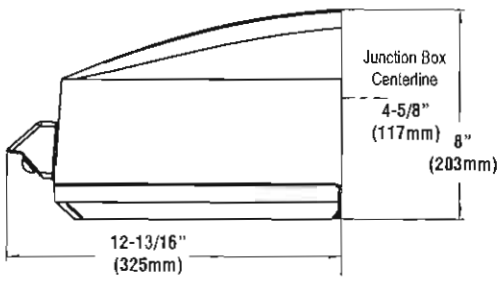




Universal Mounting Plate



Shown with IMS Option



LED AREA LIGHTS - PATRIOT® SMALL (XPTS3)

Crossover LED LIGHTING TECHNOLOGY

US patent 7828456, 7952293, 8002428, 8177386 and CAN 2736757 and MX patent 29631 and ISRL 49679 and AUS 2008312668 and US & Int'l. patents pending

SMARTTEC™ THERMAL CONTROL - Sensors in the driver enclosure reduce driver current when ambient temperatures exceed 50°C. Current is lowered in imperceptible 5% increments every 5 minutes until safe temperature is reached.

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - Select high-brightness LEDs in Cool White (5800°K nominal) or Neutral White (4000°K nominal) color temperature. 70 CRI (nominal)

DISTRIBUTION/PERFORMANCE - Types 2, 3, FT and 5. Exceptional uniformity creates bright environment at lower light levels. Improved backlight cutoff minimizes light trespass.

HOUSING - One-piece, die-cast aluminum in a multi-radiused, rectangular shape with mounting arm cast in as an integral part of the housing. All hardware is stainless steel or electro-zinc plated steel.

OPTICAL UNIT - Clear tempered optical grade flat glass lens sealed to die-cast aluminum door assembly. Secures to housing with stainless steel hinge bracket. Integral over-center latch allows easy tool-less access to driver. Optic provided with catch mechanism that limits door swing. One-piece extruded silicone gasket seals optical assembly against the housing.

MOUNTING - Use with 5" traditional drilling pattern. Integral cast mounting arm is flat for square pole applications. Use round pole adaptor (RPPC) to mount to round poles. RPPC must be ordered separately. Extruded 6" arm extension is available (but not required).

ELECTRICAL - Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277VAC (UE-50-60Hz input) and 347-480VAC. Optional button- type photocells (PCI) are available in 120, 208, 240, 277 or 347 volt (supply voltage must be specified). Fixture watts (nominal): LW - 54, SS - 75.

DRIVER - Available in LW (low wattage) and SS (super saver) drive currents. (Drive currents are factory programmed.) State-of-the-art driver technology designed specifically for LSI LED light sources provides unsurpassed system efficiency. Components are fully encased in potting material for IP65 moisture resistance. Driver complies with requirements of FCC title 47CFR Part 15, Class A and B: Part 18, Class A.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F)

FINISH - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling, and is guaranteed for five full years. Standard colors include bronze, black, platinum plus, graphite, satin verde green, metallic silver and white. Meets requirements of ASTM B117 1000-hour salt fog and ASTM G155 1000-hour Xenon Arc UV tests (supersedes G53-UVB313).

WARRANTY - LSI LED fixtures carry a limited 5-year warranty.

PHOTOMETRICS - Application layouts are available upon request. Contact LSI Applications Group at lighting.apps@lsi-industries.com

SHIPPING WEIGHT - 30 lbs./13.6Kg

LISTING - ETL listed to U.S. and Canadian safety standards. Suitable for wet locations.

LIGHT OUTPUT - XPTS3

		# of LEDS	Lumens (Nominal) Type 2	Type 3	Type FT	Type 5
Cool White	LW	63	4300	4100	4500	3300
	SS	63	5400	5100	5600	4200
Neutral White	LW	63	3700	3800	4000	2900
	SS	63	4900	5000	5100	3900

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.

American Innovation — American Made

RoHS COMPLIANT

FC CE C

ETL Intertek wet location

ARRA Funding Compliant

IP65

Also available in traditional light sources

LSI Industries™ American Innovation Through Technology

Project Name MONARCH CENTER EDISON EXPRESS Fixture Type 'E'

Catalog # XPTS3-FT-LED-63-LW-CW-UE-BLK

10/28/13

LED AREA LIGHTS - PATRIOT® SMALL (XPTS3)

Crossover LED LIGHTING TECHNOLOGY

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XPTS3 FT LED 63 SS CW UE WHT PCI120**

Prefix	Distribution	Light Source	# of LEOs	Drive Current	Color Temperature	Input Voltage	Finish	Options
XPTS3 - LED Patriot Small	2- Type II 3 - Type III FT - Forward Throw 5 - Type V	LED	63	SS - Super Saver LW - Low Watt	CW - Cool White NW - Neutral White	UE - Universal Voltage (120-277) 347-480	BLK - Black BRZ - Bronze GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White	PCI120 - 120V Button-Type Photocell PCI208-277 - 208-277V Button-Type Photocell PCI347 - 347V Button-Type Photocell TB - Terminal Block

LUMINAIRE EPA CHART - XPT3

Single	1.1
D180°	2.1
D90°	1.6
T90°	2.7
TN120°	2.8
Q90°	3.2

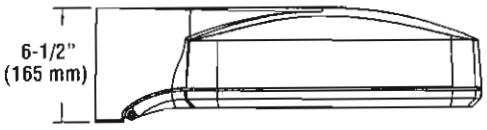
Note: House Side Shield adds to fixture EPA. Consult Factory.

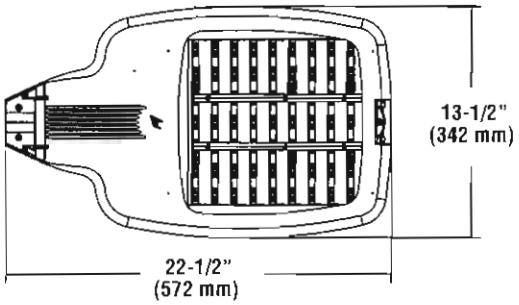
ACCESSORY ORDERING INFORMATION (Accessories are field installed)

Description	Order Number	Description	Order Number
RPPC - Round Pole Plate	141940CLR	XPTS3 HSS - House Side Shield Type 2, 3, FT	516850BLK++
FK120 - Single Fusing	FK120+	XPTS3 PLS - Polycarbonate Shield	263016
FK277 - Single Fusing	FK277+	BKS-BO-PTS-WM-*-CLR - Wall Mount Plate	263230CLR
DFK208, 240 - Double Fusing	DFK208,240+	BKA-BO-PTS-EC-6-CLR - Extension Arm	263228CLR
DFK480 - Double Fusing	DFK480+	BKA-BO-RA-8-CLR - Radius Arm	169010CLR
FK347 - Single Fusing	FK347+	BKU-BO-S-19-CLR - Upsweep Bracket for Round and Square Poles	144191CLR

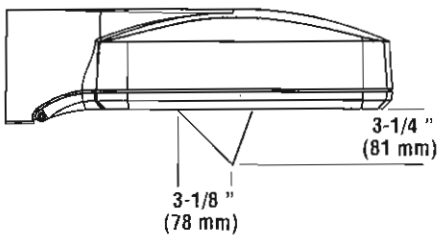
NOTES: +Fusing must be located in the hand hole of pole. ++Black only.

DIMENSIONS





House Side Shield (HSS)
Rear Mounted (516850 BLK)



LED AREA LIGHTS - PATRIOT® SMALL (XPTS3)

Crossover LED LIGHTING TECHNOLOGY

US patent 7828456, 7952293, 8002428, 8177386 and CAN 2736757 and MX patent 29631 and ISRL 49579 and AUS 2008312668 and US & Int'l. patents pending

SMARTTEC™ THERMAL CONTROL - Sensors in the driver enclosure reduce driver current when ambient temperatures exceed 50°C. Current is lowered in imperceptible 5% increments every 5 minutes until safe temperature is reached.

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - Select high-brightness LEDs in Cool White (5800°K nominal) or Neutral White (4000°K nominal) color temperature. 70 CRI (nominal)

DISTRIBUTION/PERFORMANCE - Types 2, 3, FT and 5. Exceptional uniformity creates bright environment at lower light levels. Improved backlight cutoff minimizes light trespass.

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OPTICAL UNIT - Clear tempered optical grade flat glass lens sealed to die-cast aluminum door assembly. Secures to housing with stainless steel hinge bracket. Integral over-center latch allows easy tool-less access to driver. Optic provided with catch mechanism that limits door swing. One-piece extruded silicone gasket seals optical assembly against the housing.

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ELECTRICAL - Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277VAC (UE-50-60Hz input) and 347-480VAC. Optional button- type photocells (PCI) are available in 120, 208, 240, 277 or 347 volt (supply voltage must be specified). Fixture watts (nominal): LW - 54, SS - 75.

DRIVER - Available in LW (low wattage) and SS (super saver) drive currents. (Drive currents are factory programmed.) State-of-the-art driver technology designed specifically for LSI LED light sources provides unsurpassed system efficiency. Components are fully encased in potting material for IP65 moisture resistance. Driver complies with requirements of FCC title 47CFR Part 15, Class A and B: Part 18, Class A.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F)

FINISH - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling, and is guaranteed for five full years. Standard colors include bronze, black, platinum plus, graphite, satin verde green, metallic silver and white. Meets requirements of ASTM B117 1000-hour salt fog and ASTM G155 1000-hour Xenon Arc UV tests (supersedes G53-UVB313).

WARRANTY - LSI LED fixtures carry a limited 5-year warranty.

PHOTOMETRICS - Application layouts are available upon request. Contact LSI Applications Group at lighting.apps@lsi-industries.com

SHIPPING WEIGHT - 30 lbs./13.6Kg

LISTING - ETL listed to U.S. and Canadian safety standards. Suitable for wet locations.

LIGHT OUTPUT - XPTS3

		# of LEDS	Lumens (Nominal) Type 2	Type 3	Type FT	Type 5
Cool White	LW	63	4300	4100	4500	3300
	SS	63	5400	5100	5600	4200
Neutral White	LW	63	3700	3800	4000	2900
	SS	63	4900	5000	5100	3900

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.

American Innovation — American Made

RoHS COMPLIANT

FC CE

ETL intertek wet location

ARRA Funding Compliant

IP65

Also available in traditional light sources

LSI Industries™ American Innovation Through Technology

Project Name MONARCH CENTER EDISON EXPRESS Fixture Type 'F'

Catalog # XPTS3-5-LED-63-LW-CW-UE-BLK

10/28/13

LED AREA LIGHTS - PATRIOT® SMALL (XPTS3)

Crossover LED LIGHTING TECHNOLOGY

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XPTS3 FT LED 63 SS CW UE WHT PCI120**

Prefix	Distribution	Light Source	# of LEDs	Drive Current	Color Temperature	Input Voltage	Finish	Options
XPTS3 - LED Patriot Small	2- Type II 3 - Type III FT - Forward Throw 5 - Type V	LED	63	SS - Super Saver LW - Low Watt	CW - Cool White NW - Neutral White	UE - Universal Voltage (120-277) 347-480	BLK - Black BRZ - Bronze GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White	PCI120 - 120V Button-Type Photocell PCI208-277 - 208-277V Button-Type Photocell PCI347 - 347V Button-Type Photocell TB - Terminal Block

LUMINAIRE EPA CHART - XPT3

Single	1.1
0180°	2.1
D90°	1.6
T90°	2.7
TN120°	2.8
Q90°	3.2

Note: House Side Shield adds to fixture EPA. Consult Factory.

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RPPC - Round Pole Plate	141940CLR	XPTS3 HSS - House Side Shield Type 2, 3, FT	516850BLK++
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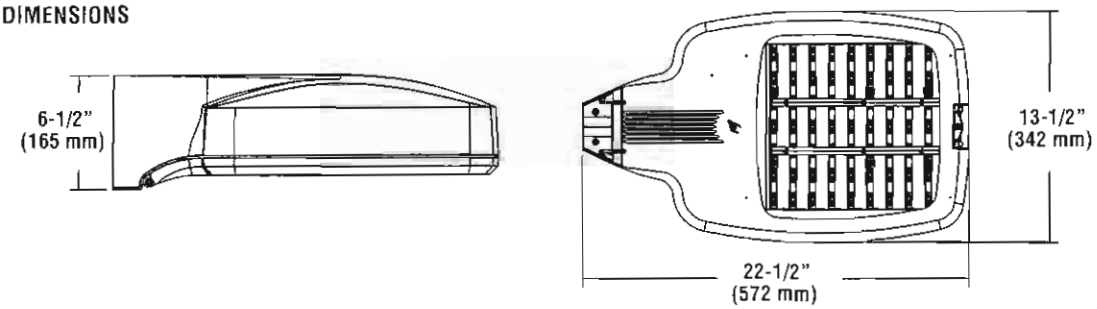
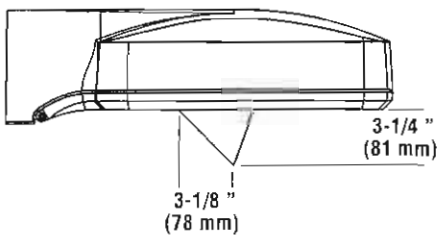
FK277 - Single Fusing	FK277+	BKS-BO-PTS-WM-*-CLR - Wall Mount Plate	263230CLR
DFK208, 240 - Double Fusing	DFK208,240+	BKA-BO-PTS-EC-6-CLR - Extension Arm	263228CLR
DFK480 - Double Fusing	DFK480+	BKA-BO-RA-8-CLR - Radius Arm	169010CLR
FK347 - Single Fusing	FK347+	BKU-BO-S-19-CLR - Upsweep Bracket for Round and Square Poles	144191CLR

NOTES: +Fusing must be located in the hand hole of pole. ++Black only.

DIMENSIONS

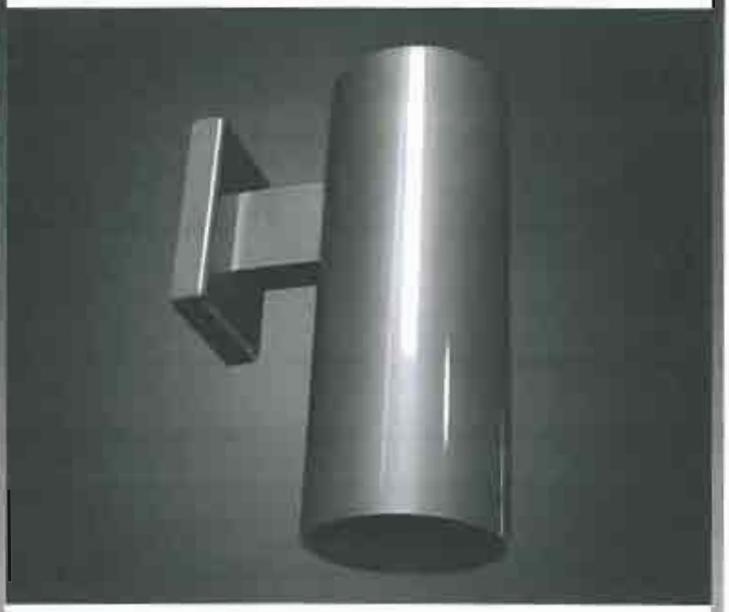


House Side Shield (HSS)
Rear Mounted (516850 BLK)



TMSLIGHTING

P6W Downlight Cylinder



Features

- Integrated energy-saving LED technology
- High CRI for rendering architectural highlights and decor
- Widespread downlight distribution with cut-off
- Architectural aluminum construction, sealed and gasketed for weatherproofing and durability
- Available in a variety of popular finishes to complement most commercial environments
- Cool operation for extended lamp and component life
- Easy to install and maintain; easy to clean and re-lamp

Applications

The P6W Downlight Cylinder is ideal for producing a grazing effect on textured finishes, for an interesting effect wherever it is used. It is ideal for aesthetic illumination of inner and outer walls, facades, entrances, and anywhere near-wall illumination or a grazing effect is desired.

Enclosure

The durable, die-cast aluminum enclosure protects the lamp and internal components. With a simple, aesthetic design, the shape and finishes blend with most corporate environments to complement the existing architecture.

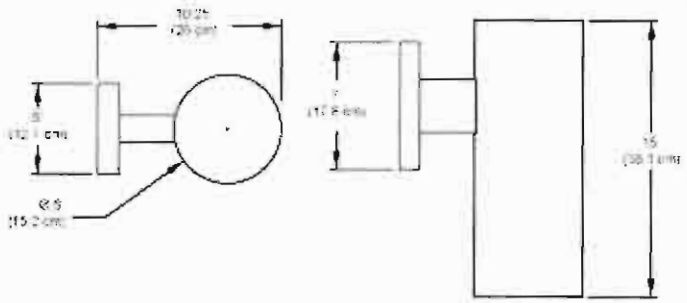
Reflector

An internal reflector projects light in the downward direction, with cut-off. The high grade, spun aluminum reflector is highly specular to make the most use of the lumen output. Calculated placement of each type of lamp ensures that light escapes the aperture in a controlled pattern.

Diffuser

The optional diffuser is a clear, tempered glass lens, sealed and gasketed to the enclosure. This is necessary to obtain the IP23 for outdoor applications. An optional baffle is available for concentrating the beam.

Dimensions



Lamp

The P6W Downlight Cylinder is designed to operate with LED (20W max.), compact fluorescent (42W max.), metal halide (50W max.), and incandescent lamps (100W max.), for design and application flexibility. The LED source is capable of producing remarkable spectral characteristics, with CRI of 94% and CCT of 3,368°K, excellent for rendering highlights and foliage.

Socket

All sockets used are compatible with other components in the supplied system. Overall, production is in compliance with North American and European electrical standards; see Compliances.

Ballasts

Electronic compact fluorescent and pulse-start metal halide ballasts used with the P6W Downlight Cylinder share many attributes that contribute to the quality of light, energy savings and safety:

- Virtual flicker-free operation
- High ballast factor of 1.0 for maximum lumen maintenance
- High power factor greater than 90%
- Low THD: CF < 10%; MH < 15%
- Sound rated "A" for the most quiet operation
- EOL protection switches output OFF on lamp burnout
- Environmentally friendly, containing no PCB's
- Color-coded leads for easy installation
- Manufactured to ISO9002 Quality System Standards

CF ballasts are also equipped with a RFI circuit to eliminate any electromagnetic interference. Dimming ballasts and emergency ballasts are optional.

LED Driver

The LED source is controlled by an advanced electronic driver, for cool, flicker-free operation, and energy savings. Built from quality components, the driver delivers consistent power and extends LED lamp life. The integral mount is standard.

LED Dimmer

The optional LED dimmer can be installed into a standard switchbox. It controls the intensity of the light output over the upper 90% of the range (10% min. to 100% max.). Integrated pulse width modulation (PWM) technology ensures a consistent color temperature (CCT) when making adjustments, for no color shifts or blurs. You can adjust the amount of light while maintaining the same quality.

Mounting

The mounting canopy is formed of high-grade aluminum. Mount on a flat surface, directly over a standard 4" electrical junction box with 3-1/2" holes center-to-center, in the vertical position.

Finishes

The P6W Downlight Cylinder is finished with a durable polyester powder-coat. More powder-coated base finishes, and RAL colors are available. See the TMS Standard Color Chart.

Product Key

P6W	-	G	-	1	-	F15	-	
		1		2		3		4

1. **Lamp**

A	IN100W
B	CF26W PL-T
C	CF32W PL-T
D	CF42W PL-T
E	MH50W ED-17
F	15W LED
G	20W LED

2. **Voltage**

1	120V
2	277V
3	347V (consult TMS)
4	220 to 230V

3. **Finish**

F05	White
F15	Matte Black
F16	Gloss Black
F18	Satin Aluminum
F21	Architectural Bronze
F31	Silver Metallic
F##	Other TMS Finishes (see color chart)
RL	RAL Colors (specify)

4. **Options**

DMD	Dimming Ballast Advance Mark 10 (CF only)
DMDL	Dimming Ballast Lutron (consult TMS) (CF only)
BU	Emergency Ballast Remote (consult TMS) (CF only)
BFL6	Anti-glare Baffle
BGL6	Bottom Glass Lens IP44 (consult TMS)

Custom

TMS Lighting can customize this and many of our standard fixtures. Dimensions, lamp types, and colors could be modified to suit your lighting quality and architectural requirements.

Project: _____

Type: _____

Quantity: _____

Notes: FIXTURE TYPE G

c UL us IP23 USTC CE

Specifications are subject to change without notice.

Photometric Data

Indoor Classification

CIE Type: Direct

Spacing Criterion (varies with lamp type)

0 - 180° : 2.02

90° - 270° : 2.02

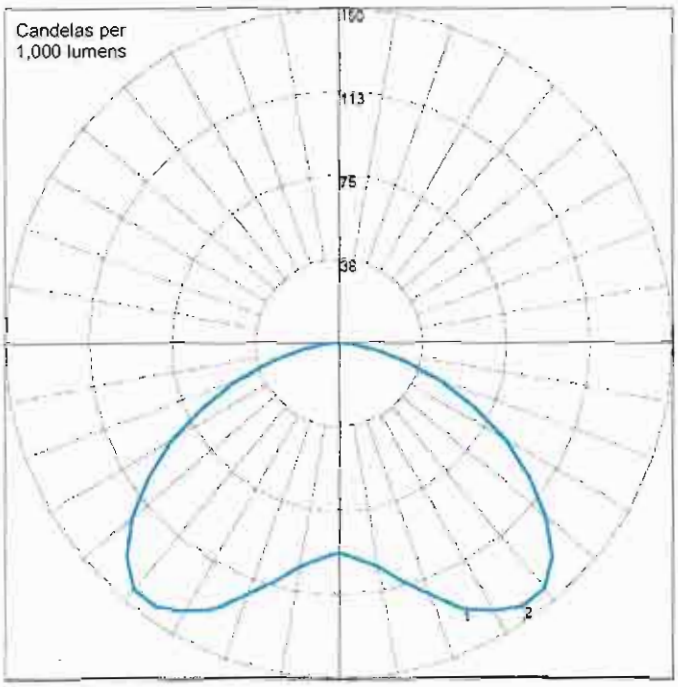
Diagonal : 1.90

Outdoor Classification

IES Classification : Type VS

Longitudinal Classification : Very Short

Cut-off Classification : Cut-off



Vertical Plane @ 0°H : (above)

Vertical Plane @ 90°H : (below)

Angle of Max. Intensity : 0H 35V

Warranty

TMS Lighting covers this product by a limited warranty for a period of three (3) years from the date of purchase, and lamps are covered by warranty for the period of lamp life specified by the manufacturer. This warranty is effective only when the products are used within the parameters of the recommended operating environment. Install in areas where the ambient temperature does not exceed 50°C/122°F.

Compliances

The P6W Downlight is UL and USTC listed, complies with the Consultants Europe directives, and rated IP23 (with bottom glass lens), for indoor and outdoor applications.

TMS Lighting Inc.
247A Summerlea Road
Brampton, Ontario
Canada L6T 4E1

Web Site: tmslighting.com

North America	(905) 793-1174
Toll-free	(866) 793-1174
Fax	(905) 793-1175
UK & Europe	44-1474-250-654
	44-1474-747-957
Fax	44-1474-747-997

FRONT ELEVATION

SIDE ELEVATION

PROPOSED ATM ELEVATION

1/2" = 1'-0"

12-30-13

NAUTILUS HYOSUNG

MONIMAX 7600i

Freestanding Full-Function Island Drive-Up ATM

The Monimax 7600i is an advanced multi-functional free-standing island, drive-up ATM designed to provide maximum reliability, security, and convenience.

Features

An industry-first **automatic tilting screen** ensures maximum ATM banking convenience for your customers to suit various vehicle heights.

Proven deposit automation technology is provided from in-house designed and manufactured envelope-free deposit modules.

Easy to deploy, highly reliable

The Monimax 7600i's footprint allows easy installation into virtually any existing location.

The Monimax 7600i provides continual deposit and cash service to customers with industry-leading uptime rates.

Enhanced Security

The 7600i is equipped with dual UL level 1 safes for the depository and cash dispensing unit. Advanced security features include heat and vibration sensors, security alarms, and anti-skimming devices.

Automatic tilting screen

Customers can adjust the tilting touch screen to their vehicle height. The screen angles upward to accommodate higher vehicles and SUVs.

Call **1-877-HYOSUNG** or visit **nautilus.hyosung.com** to explore our full line-up of financial ATMs today.

NAUTILUS HYOSUNG

MONIMAX 7600i

System Control
- Microsoft® Windows XP® platform
- Intel® Pentium®-IV processor or higher
- NDC+, DDC912, User Application

Customer Display
- 15" color TFT LCD

Optional
- Privacy filter
- Sunlight readable

Communication
- TCP/IP (SSL configurable)

Optional
- Dial up, Wireless. X.25

Input Type
- PCI EPP (Encrypting PIN pad)
- Function keys
- ADA compliant

Optional
- Touch screen
- Tilting screen

Supervisor Operation
- TFT color LCD, touch screen

Card Handling
- Dip-type card reader

Optional
- IC card reader EMV Level 1, 2 compliant
- Anti-skimming
- Motor-driven card reader

Cash Dispensing
- 3,000-notes cassette, up to four cassettes
- Bundle retraction
- Automatic shutter

Depository
- Envelope depository

Optional
- Bundle check scanner and acceptor
- Bundle note acceptor

Printers
- 3.1" graphical thermal receipt printer
- 5,000 transaction receipt printer
- Electronic journal

Optional
- Journal printer
- Statement printer

Security
- UL291 Level 1 safe
- Electronic safe lock

Optional
- KABA Mas Cencon safe lock
- security camera
- seismic and heat sensors and alarm

Miscellaneous
- Lead-through indicator
- Illuminated signage
- Rear-view mirror

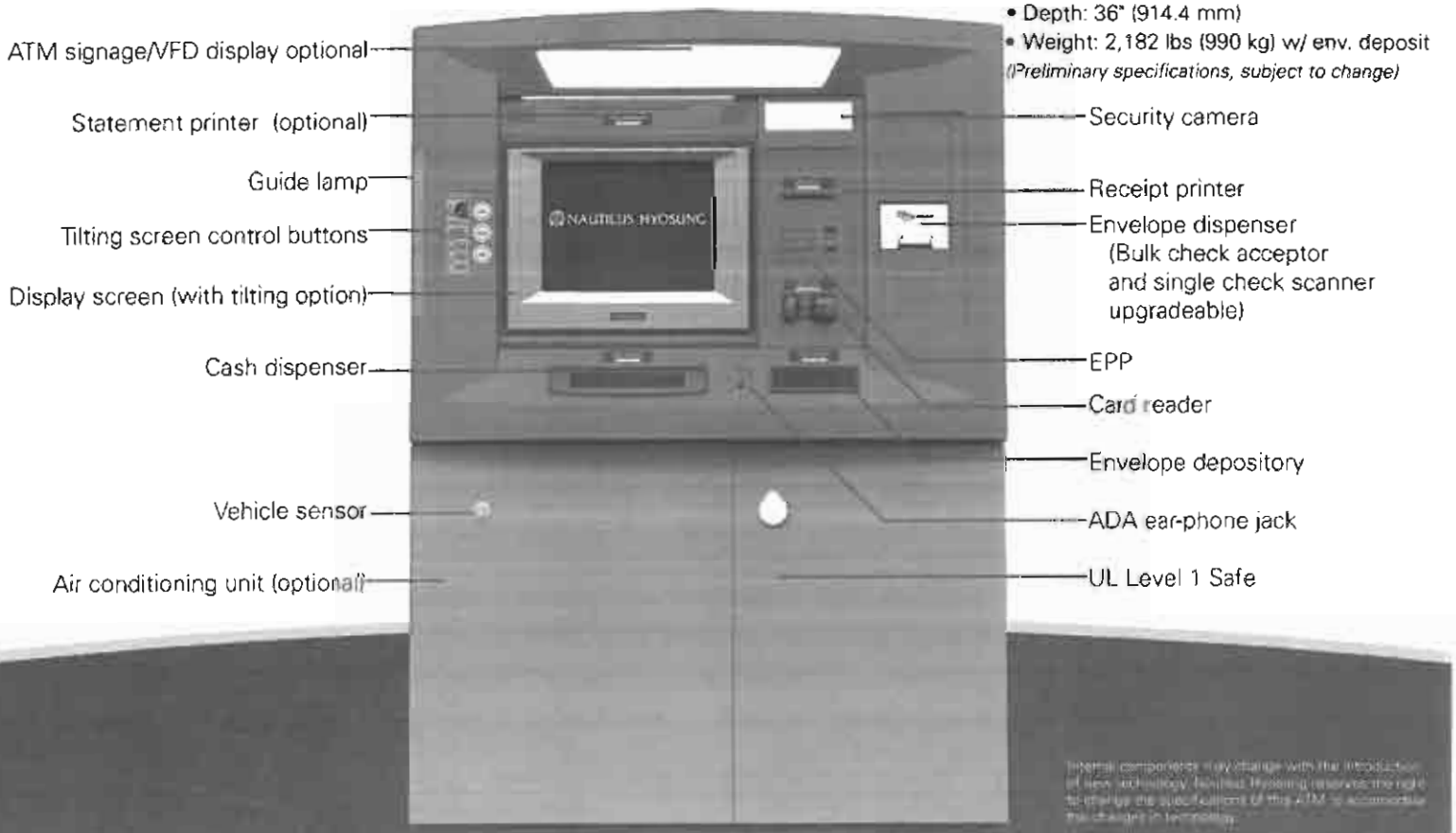
Optional
- Extreme-weather heater, A/C

Power Supply
- AC 110–240V, 50–60 Hz
- Back-up battery

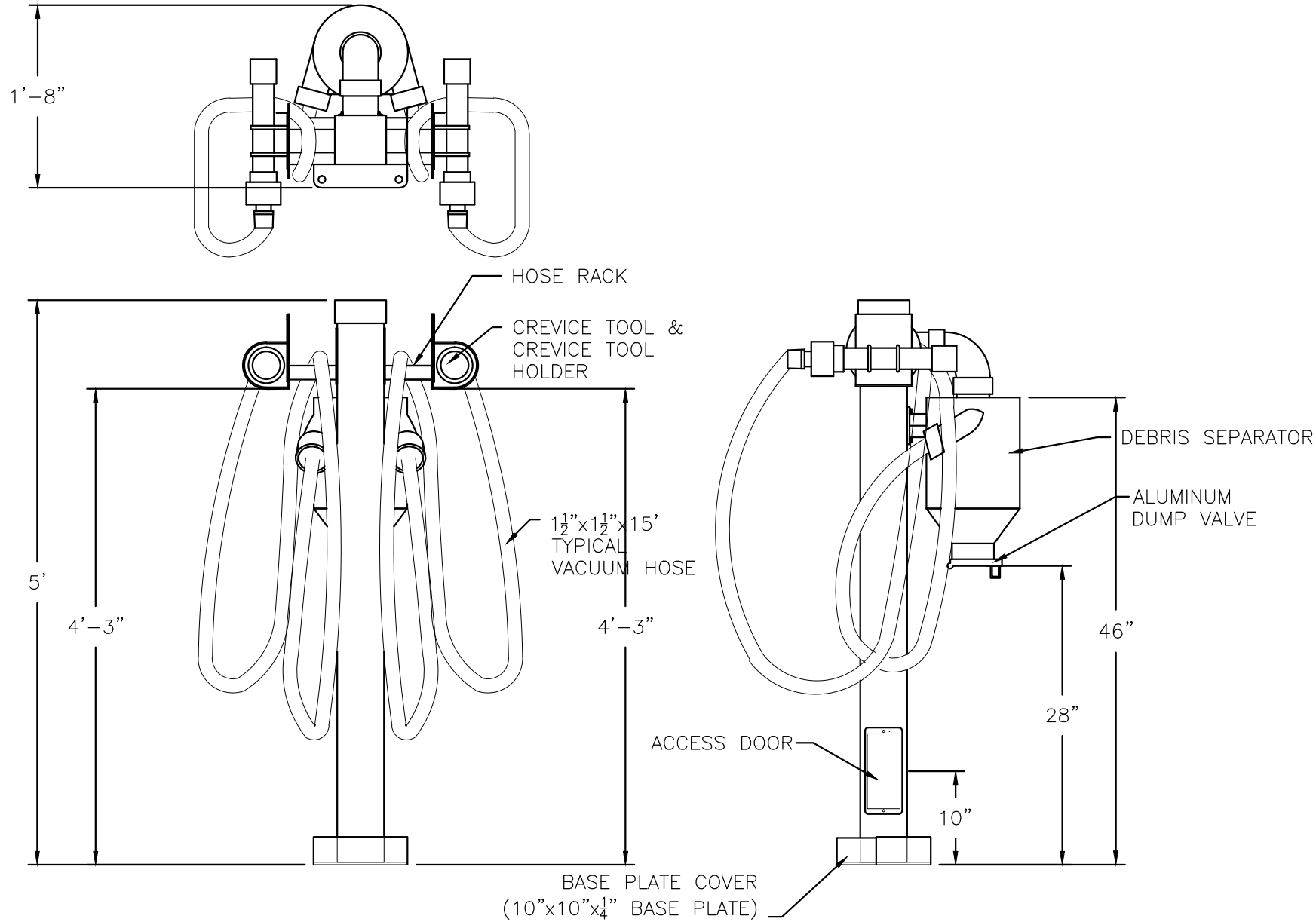
Operating Environment
- Temperature: -31°F–122°F (-35 °C–50 °C)
- Humidity: 5%–85% (with climate control device)

Dimension and Weight
- Height: 56.7" (1,439 mm)
- Width: 41.3" (1,048 mm)
- Depth: 36" (914.4 mm)
- Weight: 2,182 lbs (990 kg) w/ env. deposit

(Preliminary specifications, subject to change)



CARWASH VACUUM STANCHION - BLACK



5

5"x5"x60" HOPPER STANCHION

CREVICE TOOL & CREVICE TOOL HOLDER

4.15.11 NTS

acutech
VACUUM TECHNOLOGIES CORPORATION
6810 SOUTH JORDAN ROAD
ENGLEWOOD, CO 80112
800-917-9444