

Memorandum Planning & Development Services Division



To: Planning and Public Works Committee

From: Jessica Henry, Project Planner

Date: September 03, 2014

RE: **Monarch Center, Lots A & B (Edison Express):** A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for a 3.13 acre tract of land zoned "PC" Planned Commercial District located on the northeast corner of the intersection of Long Road and Edison Road.

Summary

CEDC, on behalf of JLA Development, LLC, has submitted a request for an 11,932 square foot convenience store, gas station, carwash, and fast food restaurant located at the intersection of Long and Edison Roads. The subject site is zoned "PC" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance 2753.

The project was presented at the August 21, 2014 Planning and Public Works Committee, at which time a motion to hold Monarch Center, Lots A & B (Edison Express) to allow the Petitioner to address the concerns raised and to bring it back to the Committee at the next possible meeting once these comments were addressed was passed by a voice vote of 4 - 0.

The applicant has revised the plan to eliminate two stacking spaces that were proposed in a third partial drive aisle in the car wash entry area.

The applicant has provided the following attachments to this report for your consideration:

1. Letter from Lochmueller Group
2. Internal site circulation exhibit
3. Architect's Statement of Design
4. Light fixture cut sheets
5. Color landscape exhibit
6. Architectural Elevations
7. Site Development Section Plan
8. Landscape Plan
9. Lighting Plan

Respectfully submitted,

Jessica Henry
Project Planner

Cc: Aimee Nassif, Planning and Development Services Director



August 28, 2014

Mr. Mace Nosovitch
c/o JLA Development, LLC
358 Shetland Valley Court
Chesterfield, Missouri 63005



RE: Internal Circulation Evaluation - Proposed Edison Express
Chesterfield, Missouri
511-0063-0TE

Dear Mr. Nosovitch:

In accordance with your request, we have prepared the following letter in an attempt to clarify the anticipated operational characteristics of the proposed Edison Express development, with particular emphasis on the site's internal circulation and access. This dialogue was generated in response to concerns expressed by member of the Chesterfield City Council.

It's our understanding that there are concerns about the site's intensity, relative to the number of uses and the level of activity that will occur within a confined area, as well as the potential for motorist confusion or conflict. It must be acknowledged that the site will be relatively active and that the site's layout converges a number of its activities at the "four-way intersection" located at the exit for the coffee/donut shop's drive-through.

That said, it must also be recognized that the proposed conditions are not uncommon and that the relative level of conflict is relatively modest. The following observations were made about the site's layout and its anticipated operating characteristics:

1. The parking area located in the northwest corner of the site is expected to be used primarily by employees. Accordingly, it should have low-turnover and would not be a source of high activity. Consequently, the intersections of the parking aisles with the circulatory drives should not produce conflicts.
2. Likewise, the parking lot located to the north of the shared access drive on Long Road will serve the adjacent dentist office, effectively functioning as an outparcel. As such, that lot will be a very low-generator of activity and will not produce conflicts.
3. Despite the combination of uses proposed on the site (gas station/convenience store; car wash; and coffee/donut shop), the site's overall traffic generation is only expected to be on the order of 300-400 vehicles per hour (vph) during peak periods. That level of traffic is comparable to some individual free-standing fast-food restaurants and high-volume convenience store chains.
4. The development of multiple uses in a combined site is an increasingly common trend to which motorists are becoming accustomed. Moreover, a higher standard of care is expected within any development site where motorists must navigate through parking aisles, circulatory drives and drive-through lanes. In most cases, these sites become "self-metering" environments.

411 North 10th Street, Suite 200
St. Louis, Missouri 63101
314.621.3395



To further assess the potential for confusion or conflict, or lack thereof, we have attempted to isolate the prevailing circulatory patterns associated each of the primary components of this development: the fuel station; convenience store; car wash; coffee/donut shop. It should be acknowledged that the site will also contain a free-standing ATM with a drive-up lane, but those facilities are so common now that they can be considered low-generators that are typically a non-factor in the site's operation.

By isolating each component, it was then possible to identify internal traffic patterns, potential conflict points and relative activity levels. This evaluation produced the following observations:

- In general, site-generated traffic will be evenly distributed between the three points of access: the right-in only from Long Road; the full-access, shared-access driveway on Long Road; and the right-in/right-out (RIRO) driveway on Edison. As a result, cumulative movements into or out of most of the access drives will be only 40-80 vph, or less than one movement every 45 seconds.
- Only the exit onto the shared-access drive connecting to Long Road will carry more traffic – approximately 90-110 vph, or less than two vehicles each minute.
- The car wash is expected to be utilized primarily by gas or C-store customers ("internal" trips), that would turn right out of the site onto the shared-access drive in order to enter the tunnel. When they leave the drying area, they will either cross in front of the C-store to the shared-access drive or turn immediately onto Edison Road.
- Motorists entering the site via the right-in only from Long Road would be expected to either make an immediate right turn to the fuel pumps or continue to the "4-way intersection", where they would either turn right to the C-store or left to the drive-through (there should be very few movements turning left into the parking area). Motorists entering via the right-in only should yield to crossing traffic on the main circulatory drive.
- Likewise, motorists exiting the drive-through must yield to crossing traffic on the main circulatory drive before making either a left or right turn (there should be no reason for them to go straight), depending on whether they want to exit onto Edison or Long.
- Motorists will enter the drive-through via either right or left turns from the main circulatory drive. The only conflict with the drive-through would be for those motorists entering from the shared-access drive, which would have to yield to oncoming traffic. While it must be acknowledged that queues of more than 2-3 vehicles on the main circulatory drive could obstruct the drive-through entrance, that is not expected to occur based on the anticipated volumes of outbound traffic and conflicting movements in the shared-access drive.
- Aside from motorists circulating around the fueling islands (to position their tanks adjacent to the pumps), gas customers would have relatively direct routes and few turning movements inside the site (they would not have to navigate into or out of parking stalls for the C-store or enter or exit the drive-through).

In total, we do not foresee any major flaws with the currently proposed site plan. The relative volume of internal traffic movements are low enough that they should be able to operate without conflict. Moreover, despite the combination of uses on the site, the prevailing circulatory patterns will be concentrated on two primary axis's: the main north-south circulatory drive and the right-in from Long Road/drive-through exit.

Mr. Mace Nosovitch
August 28, 2014
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If deemed necessary, these conditions could be further simplified with minor circulatory and/or traffic control modifications. Specifically, the parking area in the northwest quadrant could be relegated to counter-clockwise flow that would incorporate the right-in only drive aisle, and stop bars could be provided on the east and west legs at the "four-way intersection".

Finally, as an adjunct to this discussion, we also considered a suggestion that was made to reconfigure the drive-through in an effort to further reduce conflicts or activity internal to the site. This concept was presumably inspired by a similar change to the car wash entrance, which was relocated to the shared-access drive in order to reduce confusion and maintain a more appropriate internal throat depth on the main circulatory drive.

However, it would be more appropriate to maintain the drive-through within the development parcel rather than on the shared-access drive. The shared-access drive will serve the Edison Express site as well as the dentist office and the remainder of Monarch Center, so it should be treated like a more significant road in the application of access management standards, whereby access would be promoted on the side-street. Moreover, the alternative configuration would place the car wash entrance and the drive-through entrance immediately adjacent to each other, which would potentially introduce more confusion between the two curb cuts that could impede other movements.

Please let us know if you have any questions or comments concerning this discussion.

Sincerely,
Lochmueller Group

A handwritten signature in cursive script that reads "Douglas S. Shatto".

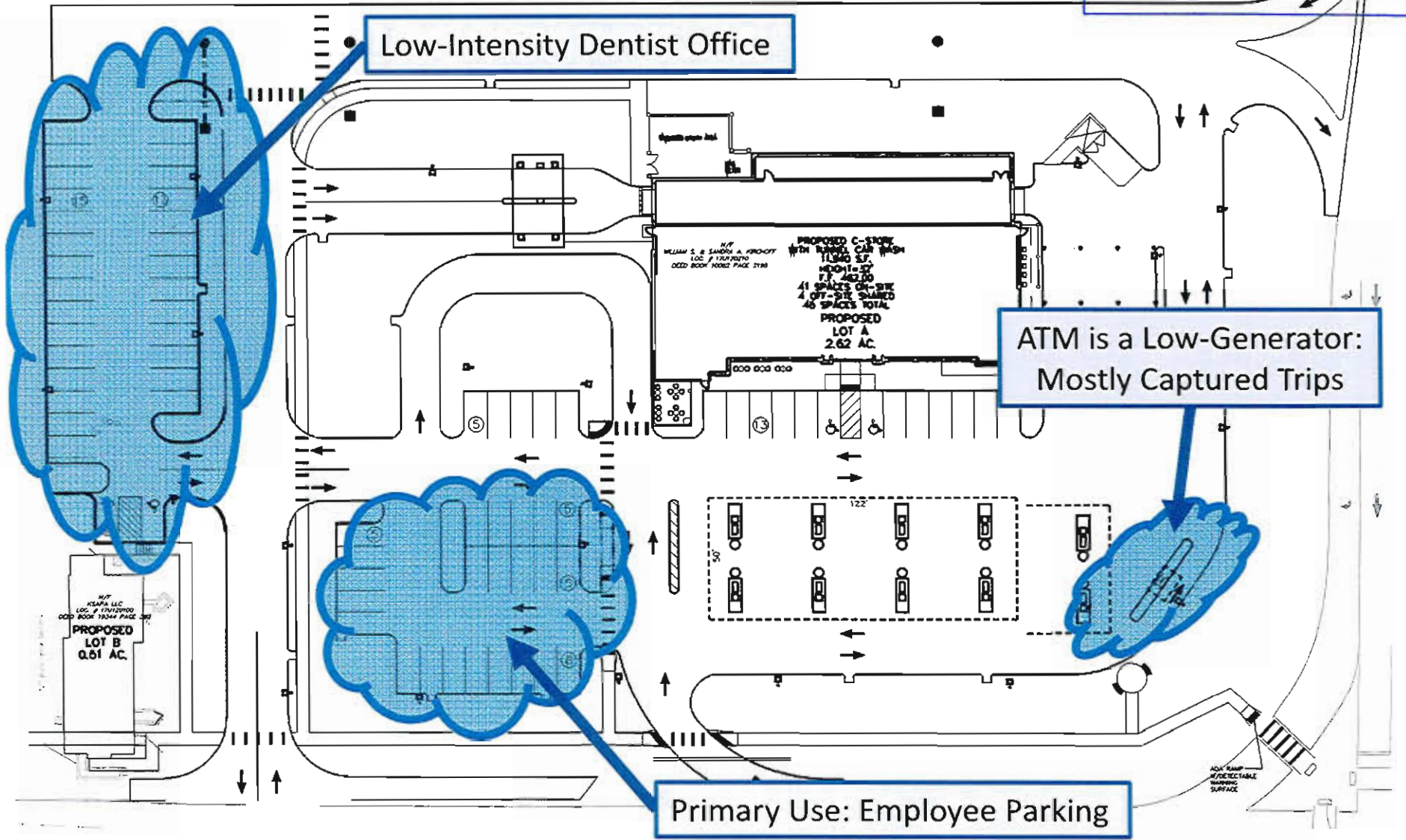
Douglas S. Shatto, P.E., PTOE
Branch Manager / Transportation Services Manager

RECEIVED
City of Chesterfield

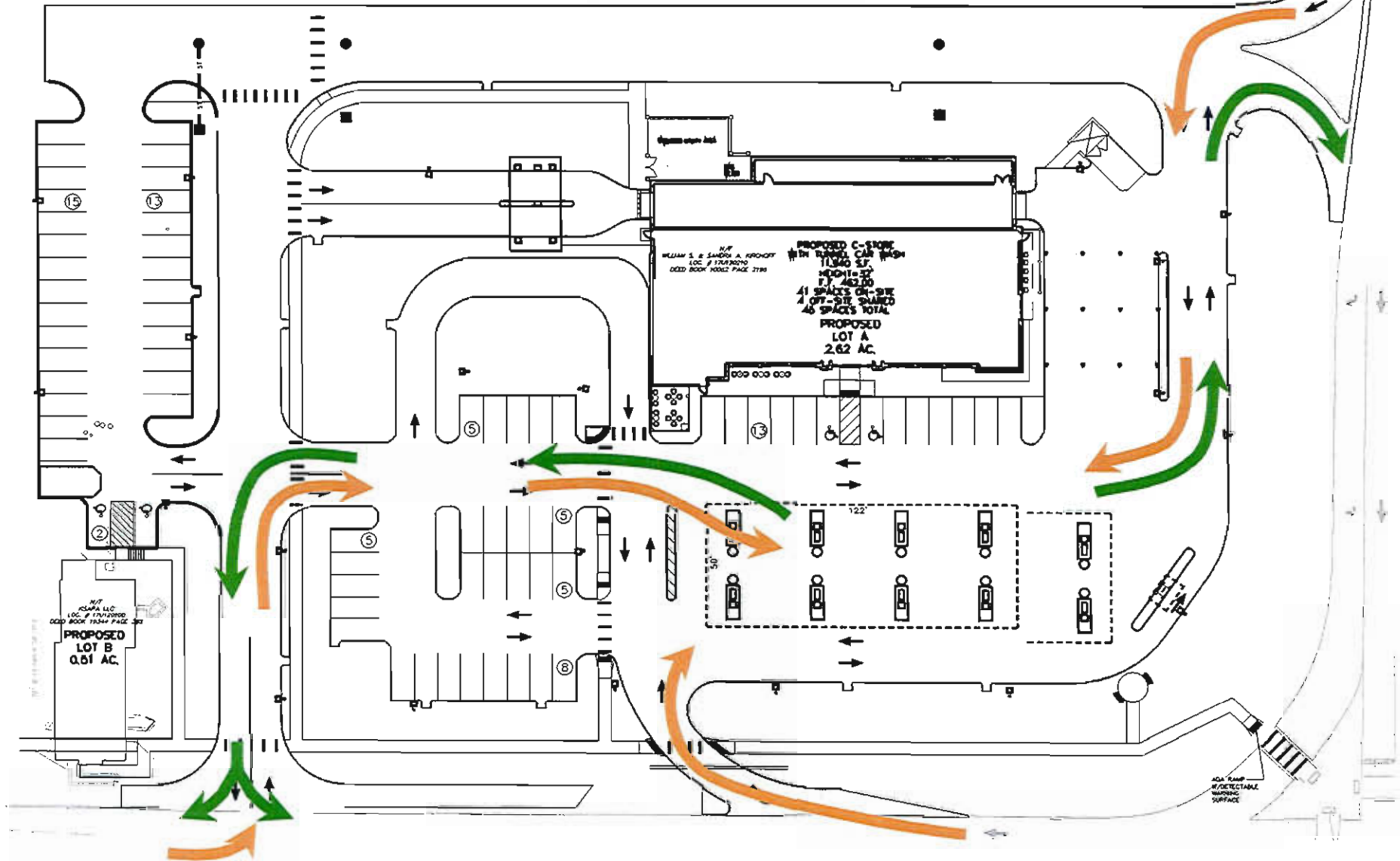
AUG 28 2014

Department of Public Services

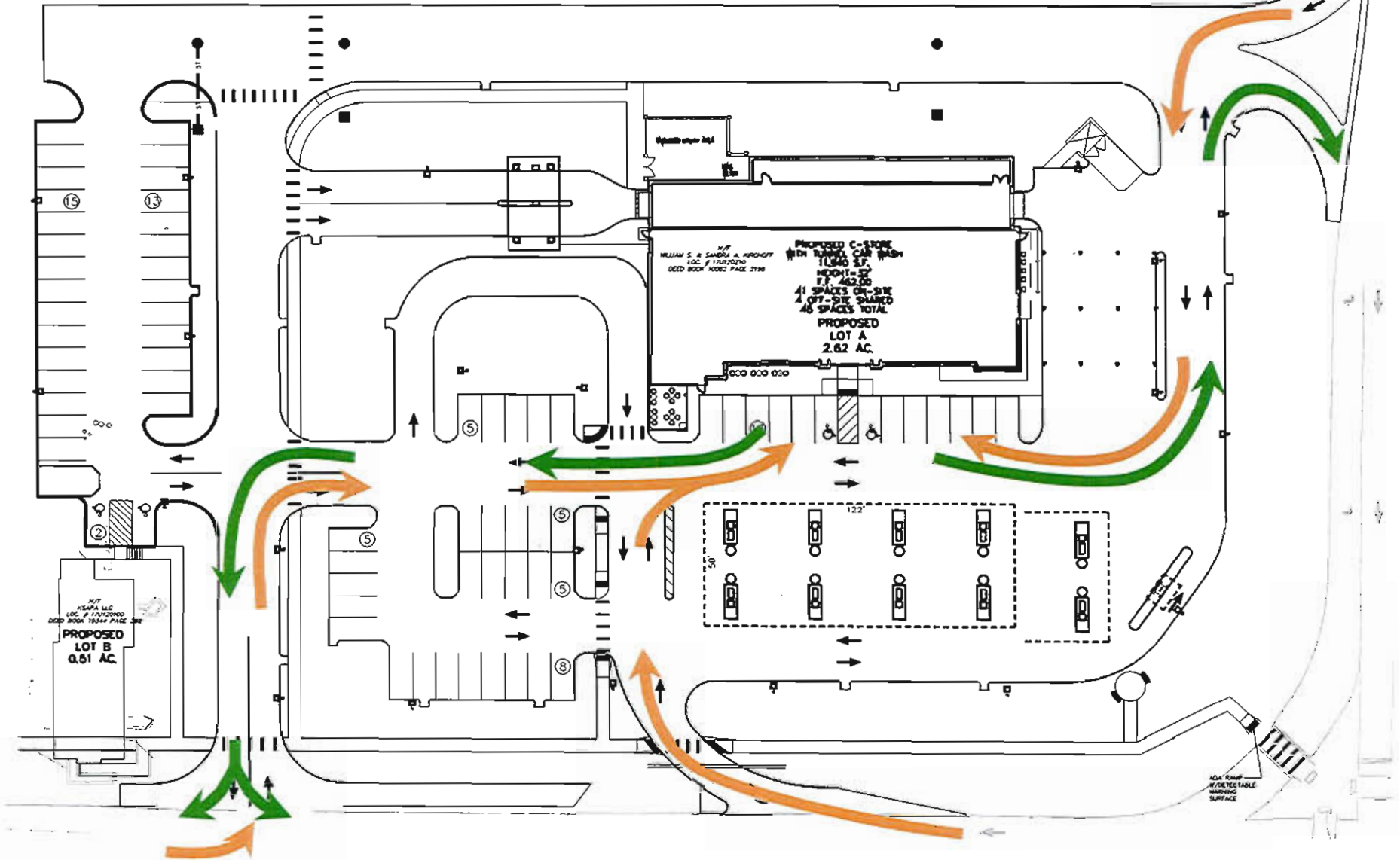
Low-Activity Components



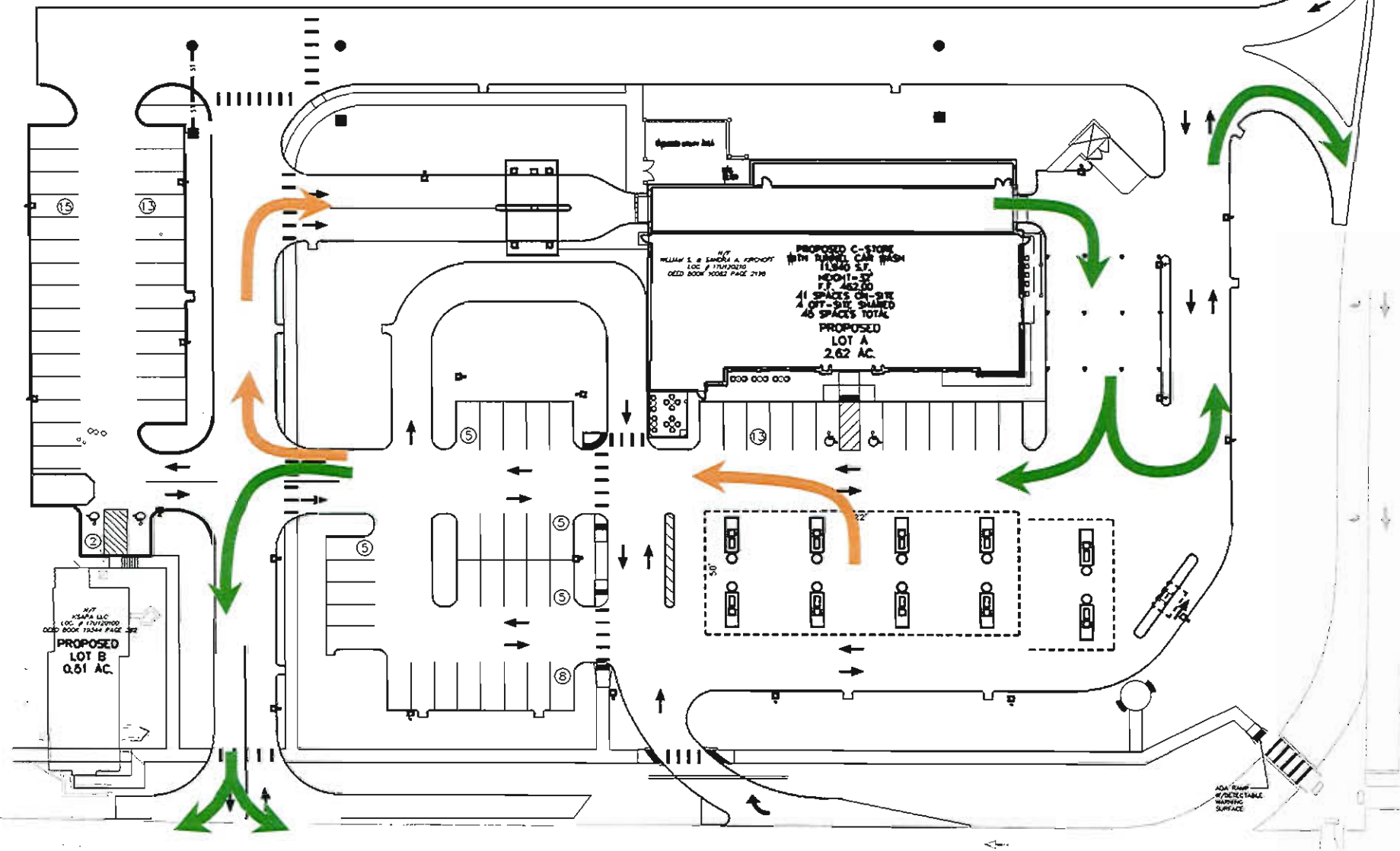
Prevailing Circulatory Patterns: Fuel Pumps



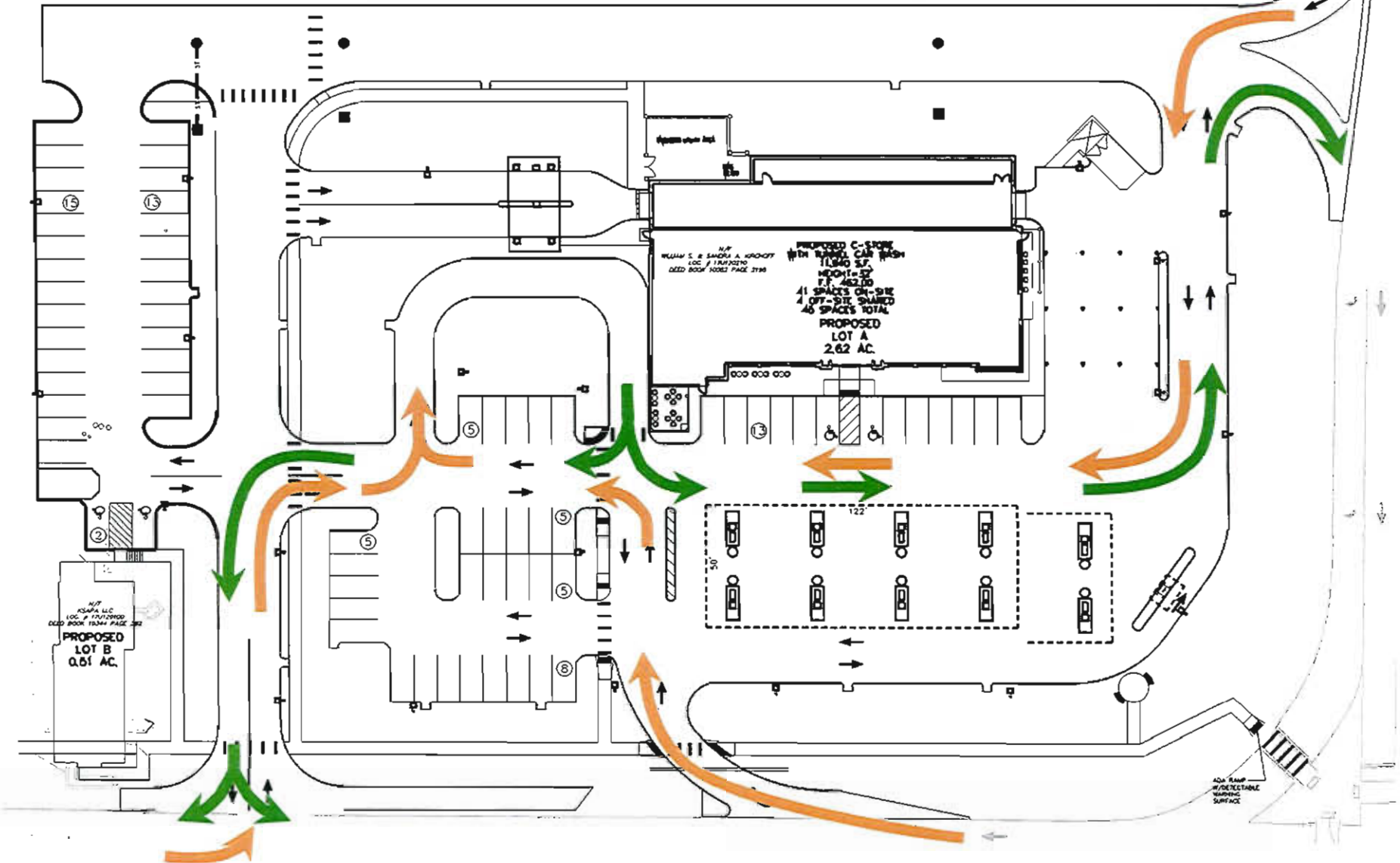
Prevailing Circulatory Patterns: C-Store



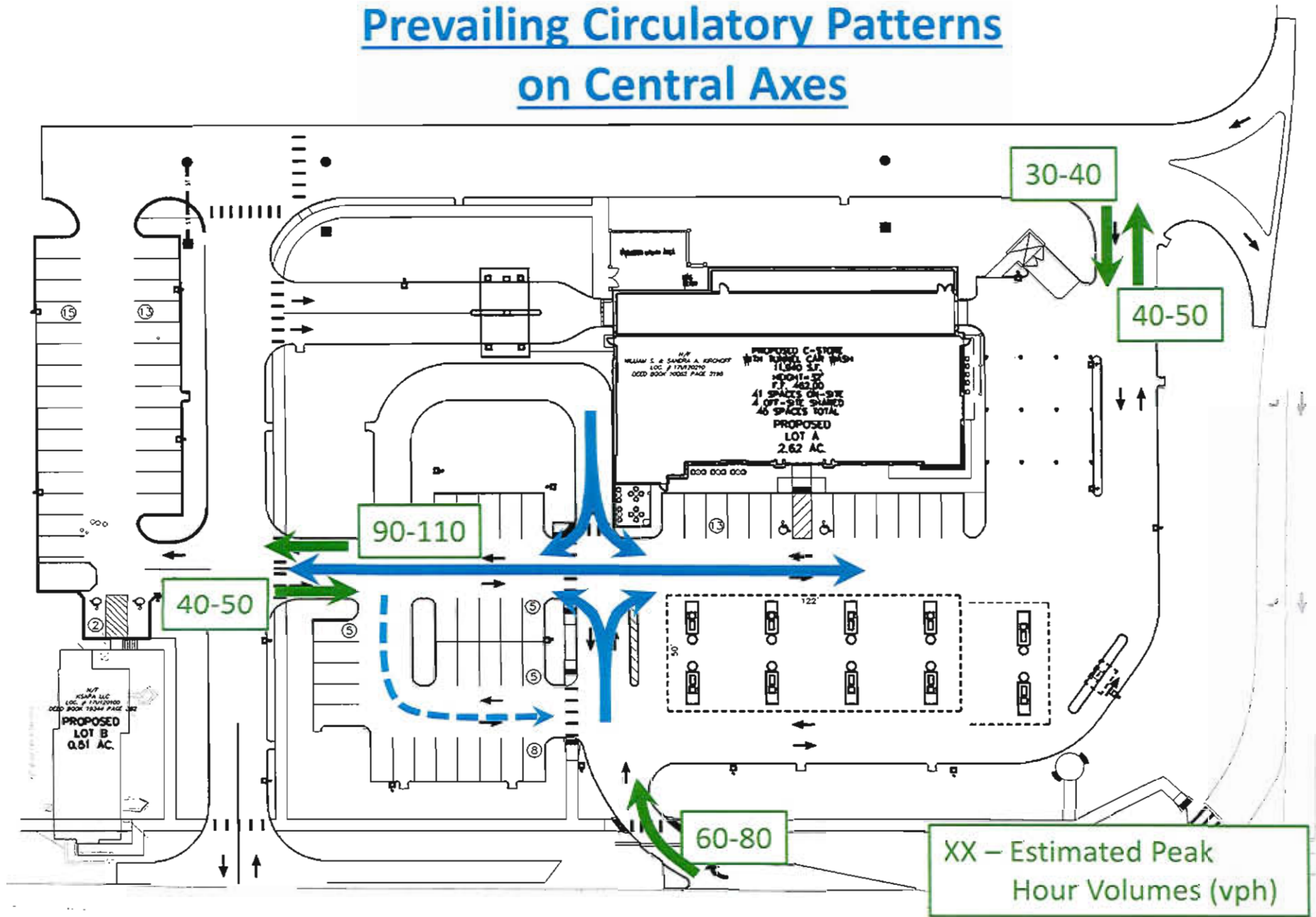
Prevailing Circulatory Patterns: Car Wash



Prevailing Circulatory Patterns: Coffee/Donut Shop



Prevailing Circulatory Patterns on Central Axes



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

LED CANOPY LIGHT - LEGACY™ (CRU)



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.

HAZAROOUS LOCATIDN - 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

LED lighting facts[®]
A Program of the U.S. DOE

Crossover LED Lighting

Light Output (Lumens)	16997
Watts	148.9
Lumens per Watt (Efficacy)	114
Color Accuracy Color Rendering Index (CRI)	74

Light Color
Correlated Color Temperature (CCT)

5037 (Daylight)

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

Warranty** Yes

All results, except LED Lumen Maintenance 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.

** See www.lightingfacts.com/products for details.

Registration Number: XGGH-NZWH08 (8/12/2013)
Model Number: CRU-SC-LED-HO-CW-UE
Type: Canopy Light

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.



CRU-SC-LED-LW-CW-UE



Project Name _____, Fixture Type **A**
Catalog # _____

08/23/13
© 2013
LSI INDUSTRIES INC.

LED CANOPY LIGHT - LEGACY™ (CRU)



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 Watt 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

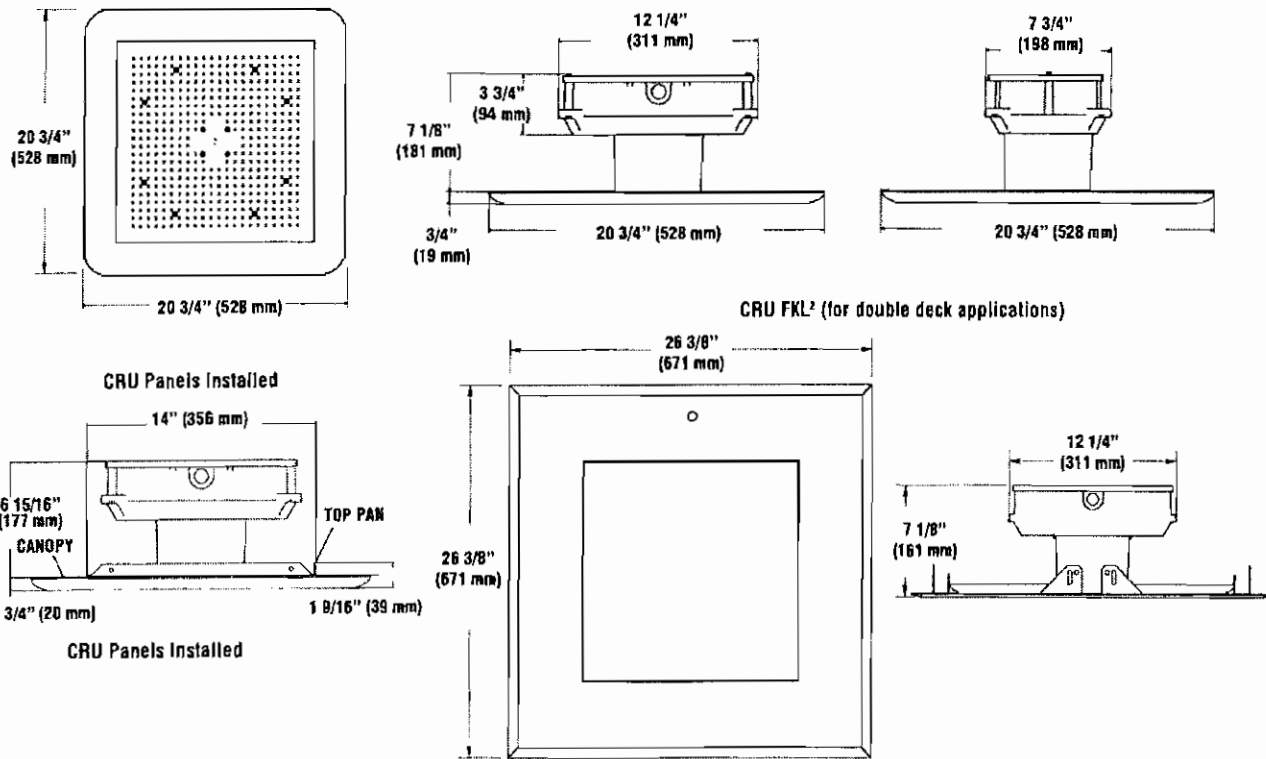
FOOTNOTES:

- 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	Description	Order Number
Retrofit Panels - EC / ECTA / SCF to CRU, for 16" Deck Panel	525946	Kit - Hole Plugs and Silicone (enough for 25 retrofits) ¹	1320540
Retrofit Panels - ECTA / SCF to CRU, for 12" Deck Panel	530281	CRU FKL - Flange Kit ²	537530WHT
Retrofit 2x2 Cover Panel Blank (no holes)	357282	1- Consists of (25) 7/8" hole plugs and (1) 10.3 oz tube of RTV	
Retrofit RIC Cover Panel Blank (no holes)	354702	2- Flange Kit used to mount CRU in double deck applications	

DIMENSIONS



LIGHT OUTPUT - CRU

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

TMS LIGHTING

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.

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.

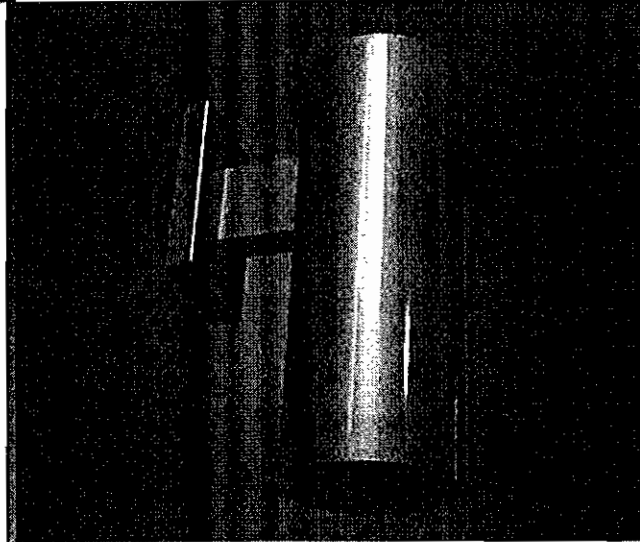
Socket

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.

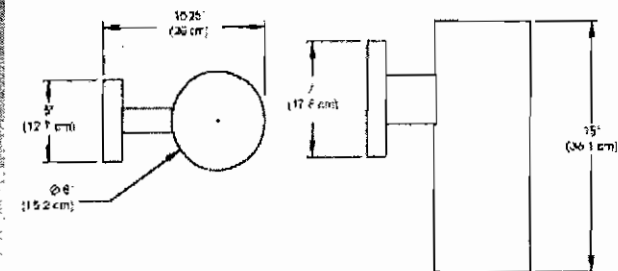
Ballasts

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



Dimensions



- 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	-	LED10	-	120	-	F##	-	
	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: FIXTURE TYPE B
 Quantity: _____
 Notes: _____



Specifications are subject to change without notice.

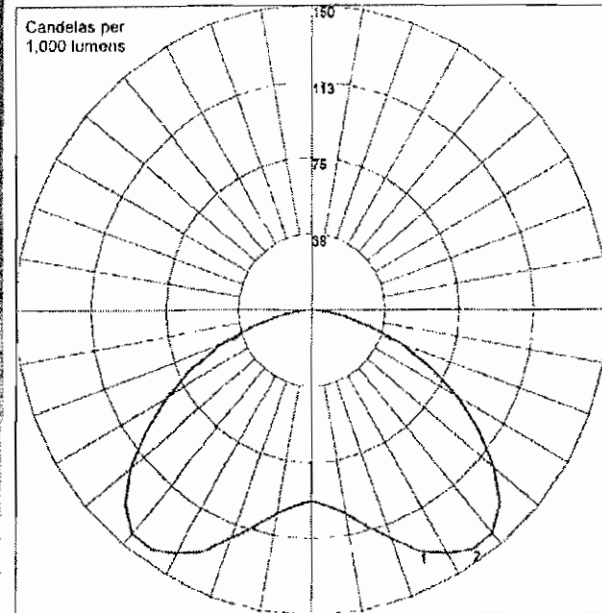
Photometric Data

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.

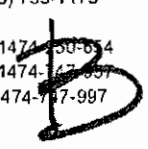
247A Summerlea Road
 Brampton, Ontario
 Canada L6T 4E1

North America (905) 793-1174
 Toll-free (866) 793-1174
 Fax (905) 793-1175

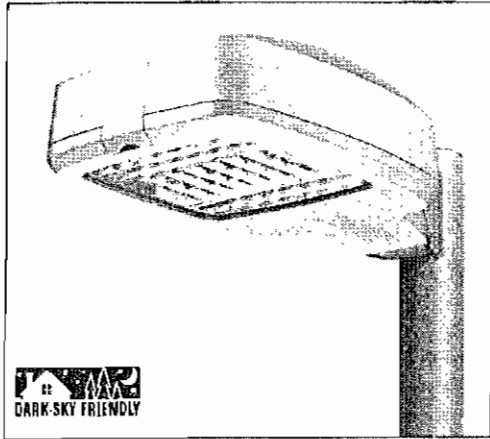
UK & Europe 44-1474-30-054
 44-1474-30-997

Web Site: tmslighting.com

Fax 44-1474-30-997



LED AREA LIGHTS - PATRIOT® SMALL (XPTS3)



US patent 7828456, 7952293, 8002428, 8177386 and CAN 2736767 and MX patent 29631 and ISRL 49679 and AUS 2006312668 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 - CTL 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	4700
Neutral White	LW	63	3700	3600	4000	2900
	SS	62	4800	4600	5100	3900

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



ROHS COMPLIANT

FC CE



ARRA Funding Compliant IP65

XPTS3-FT-LED-63-LW-CW-UE

C

Also available in traditional light sources



Project Name _____ Fixture Type _____
 Catalog # _____

10/26/13

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LSI INDUSTRIES INC.

LED AREA LIGHTS - PATRIOT® SMALL (XPTS3)



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 6 - Type V	LED	63	SS - Super Cover 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

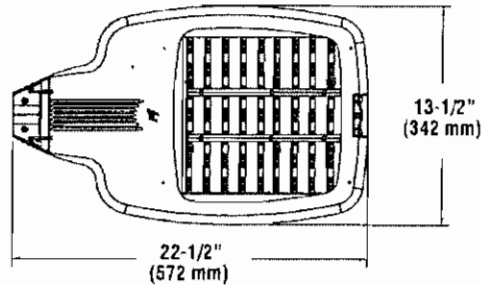
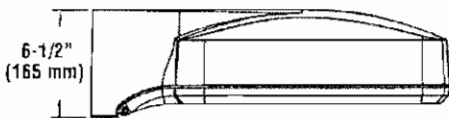
Note: House Side Shield adds to fixture EPA. Consult Factory.

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

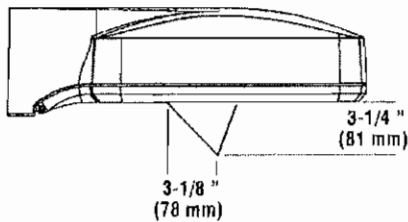
Description	Order Number	Description	Order Number
RPPC - Round Pole Plate	141940CLR	XPTS3 HSS - House Side Shield Type 2, 3, FT	516850BLK**
FK120 - Single Fusing	FK120*	XPTS3 PLS - Polycarbonate Shield	263016
FK277 - Single Fusing	FK277*	BKS-BO-PT-S-WM-* - CLR - Wall Mount Plate	263230CLR
DFK208, 240 - Double Fusing	DFK208,240*	BKA-BO-PT-EC-S-CLR - Extension Arm	263228CLR
DFK480 - Double Fusing	DFK480*	BKA-BO-RA-B-CLB - 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



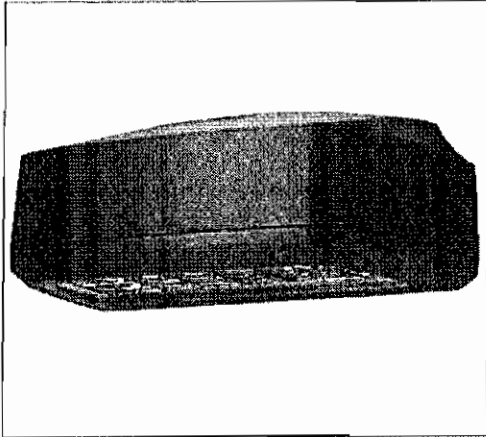
House Side Shield (HSS)
Rear Mounted (516850 BLK)



LED PATRIOT WALL SCONCE (XPWS3)



US patents 0562491 & 7828456 and US & Int'l. patents pending



SMARTTEC™ ENERGY SAVING FEATURES:

- THERMAL CONTROL** - Sensors in both optical unit and driver enclosure reduce drive current when ambient temperatures exceed 50°C. Current is lowered in imperceptible 5% increments every 5 minutes until safe operating temperature is reached.
- OCCUPANCY SENSING** - Integral sensor (optional) detects movement and activates switching of luminaire to 30% power when no presence is detected. Smart dim slowly lowers light level over a 10-second period.

- 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).
- DRIVER CURRENT OPTIONS** - Choose from two drive current levels; 350mA and 450mA (Drive currents are factory programmed).

- OPTICS/DISTRIBUTIONS** - Ultra-high efficiency reflectors provide three distributions. Choose from Wide Throw (WT), Forward Throw (FT) or Wall Wash (WW)
- OPTICAL UNIT** - Clear tempered optical-grade flat glass lens sealed to the die-cast 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.

- DRIVER** - Components are fully encased in potting material for IP68 moisture resistance. Driver complies with IEC and FCC standards. Driver can be easily accessed and removed.

- ELECTRICAL** - Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Scenario 1, Location Category C. Available with universal voltage power supply 120-277VAC (50/60Hz input), 347VAC and 480VAC.

- 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.

- 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 a minimum of 90 minutes. EMR2 option for two external 12 volt circuits for use with 35 watt Halogen lamps (provided) is available.

- 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.

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

- 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 option adds a clean look closure to the back of the housing and includes bracket to allow fixture to be pole-mounted.

- FINISH** - Fixtures are finished with LSI's DuraGrip® polyester powder coat finish process. The DuraGrip finish withstands extreme weather changes without cracking and peeling, and is guaranteed for five full years. See ordering guide for available standard colors.

- SHIPPING WEIGHT (in carton)** - 25 lbs. (11 kg)

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

- WARRANTY** - Limited 5-year warranty.

- PHOTOMETRICS** - Application layouts are available. Contact LSI Applications at lighting_apps@lsi-industries.com

- 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)

All results are according to IESNA LM-79-08: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verified product test data and results.

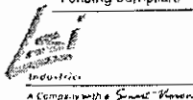
Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: KGCN-VIP-22A
Model Number: XPWS3 FT LED 48 350 CW UE
Type: Outdoor wall pack

LIGHT OUTPUT - XPWS3

Milliamps	# of LEDs	Distribution/Lumens (Nominal)			Watts
Cool White		Type FT	Type WT	Type WW	
350 mA	28	2300	2280	2580	33
	48	4020	3940	4160	53
	28	2820	2740	3010	41
450 mA	48	4810	4600	4870	68
	Neutral White				
	28	2260	2190	2420	32
350 mA	48	3740	3570	3760	52
	28	2660	2600	2850	41
	48	4420	4100	4450	62

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



Project Name _____ Fixture Type _____
Catalog # **XPWS3-WW-LED-28-350-CW-UE**

01/27/12
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LSI INDUSTRIES INC.

LED PATRIOT WALL SCONCE (XPWS3)



LUMINAIRE ORDERING INFORMATION

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

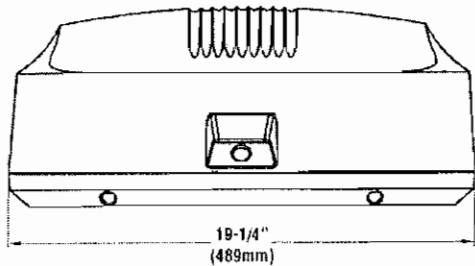
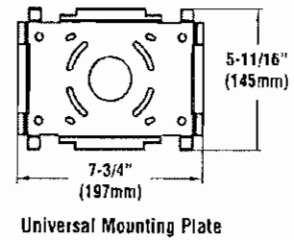
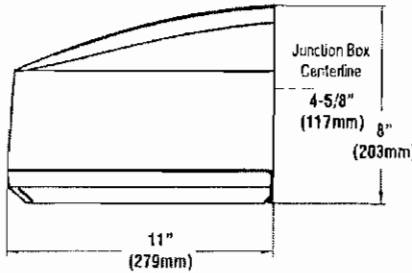
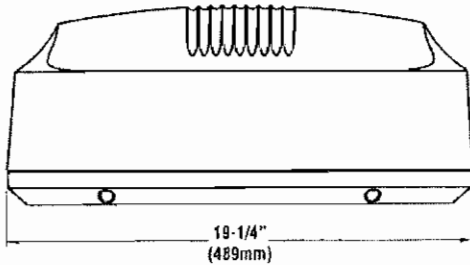
Prefix	Distribution	Light Source	# of LEDs	Drive Current	Color Temperature	Input Voltage	Finish	Options
XPWS3 - LED Patriot Wall Sconce	WT - Wide Throw FT - Forward Throw WW - Wall Wash	LED	28 48	350 - 350mA 450 - 450mA	CW - Cool White NW - Neutral White	UE - Universal Voltage (120-277) 347-480	BLK - Black BRZ - Bronze GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White	BB - Battery Back-up ¹ CW88 - Cold Weather Battery Back-up ¹ IMS - Integral Motion Sensor TP - Tamper Proof 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 UL 844 ³ XPMA - Pole Mounting Adaptor w/fixture backplate for use with square poles ⁴ XPMAR - Pole Mounting Adaptor w/fixture backplate for use with 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)	3569158LK
SCDB - Tamper-proof Screwdriver Bit	420908

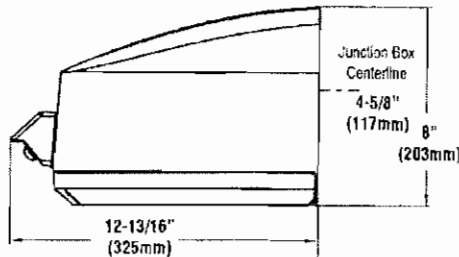
FOOTNOTES:

- 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 EMH2 option.
- 4 - Not available with EMR2 option. Designed with 3" reduced drilling pattern. For S or D180 mounting configuration only.

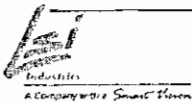
DIMENSIONS



Shown with IMS Option



D

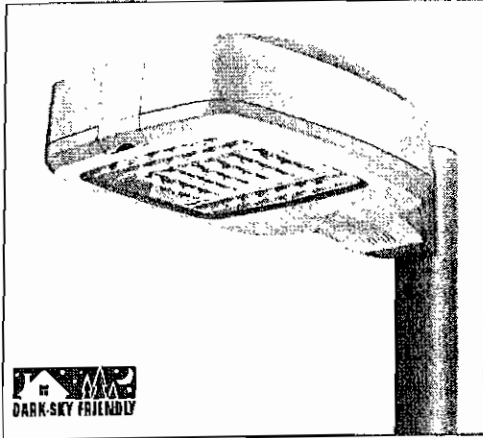


Project Name _____ Fixture Type _____
Catalog # _____

01/27/12

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ESL INDUSTRIES INC.

LED AREA LIGHTS - PATRIOT® SMALL (XPTS3)



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	66	3700	3600	4000	2900
	SS	63	4900	5000	5400	3950

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



IP65

XPTS3-2-LED-63-LW-CW-UE

E

Also available in traditional light sources



Project Name _____ Fixture Type _____

Catalog # _____

10/28/13

© 2013

LSI INDUSTRIES INC.

LED AREA LIGHTS - PATRIOT® SMALL (XPTS3)



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 4 - Forward Down 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 - XPTS3

Beam Spread	EPA Value
Single	1.1
D180°	2.1
D90°	1.6
T90°	2.7
TN120°	2.8
O90°	3.2

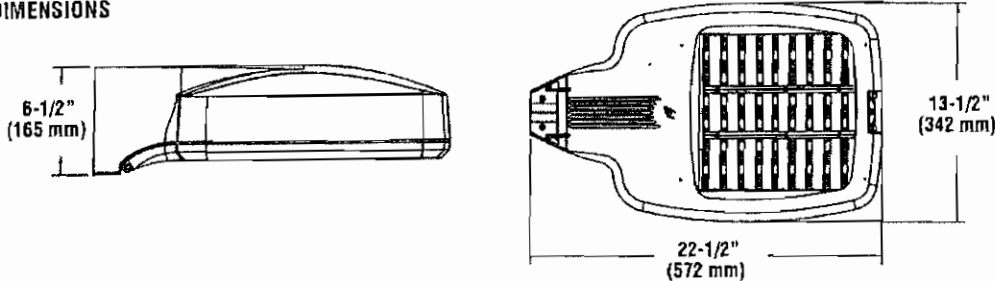
Note: House Side Shield adds to fixture EPA. Consult Factory.

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

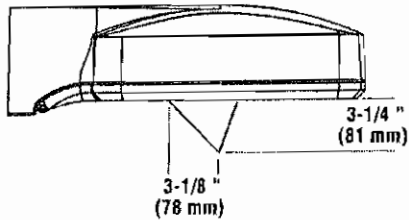
Description	Order Number	Description	Order Number
RPPC - Round Pole Plate	14194OCLR	XPTS3.HSS - House Side Shield Type 2, 3, FT	516850BLK**
FK120 - Single Fusing	FK120*	XPTS3.PLS - Polycarbonate Shield	263016
FK277 - Single Fusing	FK277*	BKS-BO-PTS-WM-* - CLR - Wall Mount Plate	26323OCLR
DFK208, 240 - Double Fusing	DFK208,240*	BKA-BO-PTS-EC-6-CLR - Extension Arm	26322BCLR
DFK480 - Double Fusing	DFK480*	BKA-BO-BA-8-CLR - Radius Arm	16901OCLR
FK347 - Single Fusing	FK347*	BKU-BO-S-19-CLR - Upweep Bracket for Round and Square Poles	144191CLR

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

DIMENSIONS

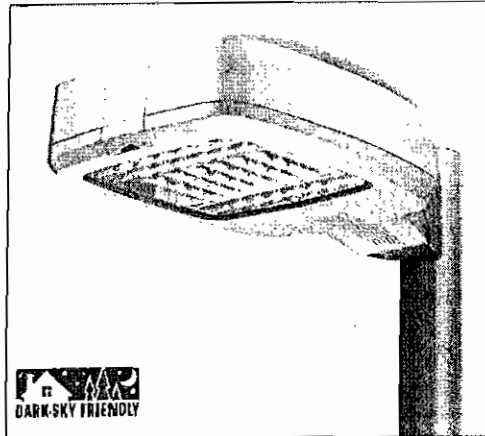


House Side Shield (HSS)
Rear Mounted (516850 BLK)



E

LED AREA LIGHTS - PATRIOT® SMALL (XPTS3)



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. (Driver 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.

		# of LEDES	Lumens (Nominal)			
			Type 2	Type 3	Type FT	Type 5
Cool White	LW	63	4300	4100	4500	3300
	SS	63	6400	6100	6600	4200
Neutral White	LW	63	3700	3800	4000	2800
	SS	63	4800	5000	5100	3900

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



ROHS COMPLIANT

FC CE C



ARRA IP65 Funding Compliant

XPTS3-5-LED-63-LW-CW-UE

F

Also available in traditional light sources



Project Name _____ Fixture Type _____
 Catalog # _____

10/28/13

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LED AREA LIGHTS - PATRIOT® SMALL (XPTS3)



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 FF - Forward Thru 5 - Type V	LED	63	CG - Super Green 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 - Salin Verde Green WHT - White	PCI120 - 120V Button-Type Photocell PC208-277 - 208-277V Button-Type Photocell PCI347 - 347V Button-Type Photocell TB - Terminal Block

LUMINAIRE EPA CHART - XPTS3

Single	1.1
D180°	2.1
D90°	1.6
T90°	2.7
TN120°	2.8
O90°	3.2

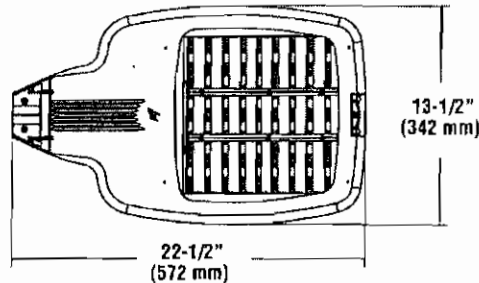
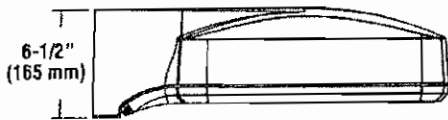
Note: House Side Shield adds to fixture EPA. Consult Factory.

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

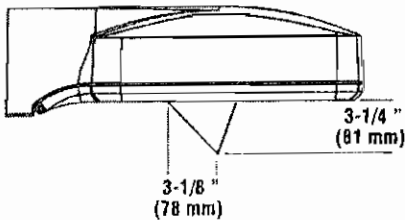
Description	Order Number	Description	Order Number
RPPC - Round Pole Plate	141940CLR	XPTS3.HSS - House Side Shield Type 2, 3 FT	516850BLK**
FK126 - Single Fusing	FK120*	XPTS3.PLS - Polycarbonate Shield	26301E
FK277 - Single Fusing	FK277*	BKS-BO-PTS-WM*-CLR - Wall Mount Plate	263290CLR
DFK208, 240 - Double Fusing	DFK208, 240*	BKA-BO-PTS-FC-E-CLR - Extension Arm	263228C, R
DFK480 - Double Fusing	DFK480*	BKA-BO-FA-B-CLR - Radius Arm	169210CLR
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)



F

LED 6 INCH WET-LISTED DOWNLIGHT (PDL6K)

COMPLETE KIT - PDL6K comes complete with high-efficiency LED modules, recessed housing and built-in trim.

LEDs - Select high-brightness LEDs. Color temperature 4000K (NW, nominal). CRI = 90 (nominal)

LED MODULE ASSEMBLY - Durable plastic housing integrates LED module, white trim and white baffle reflector. Frosted lens eliminates direct view of LEDs. Torsion springs safely secure LED module in housing. Other trims available, consult factory.

ROUGH-IN HOUSING - Non-IC housing must be kept at least 3" away from insulation. 16-gauge galvanized steel housing includes frame with bar hangers with nails for wood joist. Adjustable 14" to 25" for precise placement. Bar hangers include T-bar notch for T-grid ceilings

DIMMING - PDL6K is dimmable to 10% with standard 120V electronic dimmers. Contact factory for use with incandescent or magnetic low-voltage dimmers.

DELIVERED LUMENS - 900 (HO Output) or 700 (SS)

INPUT POWER - 13 watts (HO); 10 watts (SS)

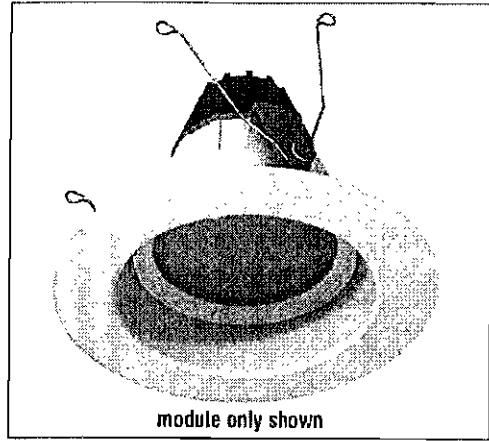
EXPECTED LIFE - Minimum 50,000 hours.

WARRANTY - Limited 5-year warranty.

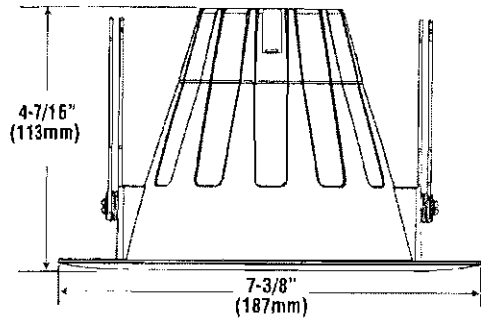
LISTING - Wet location. ETL listed to U.S. and Canadian safety standards.

PHOTOMETRICS - LM-79 and LM-80 reports, as well as application layout assistance are available on request. Contact LSI Applications Group or lighting.apps@lsi-industries.com.

Crossover
LED LIGHTING TECHNOLOGY



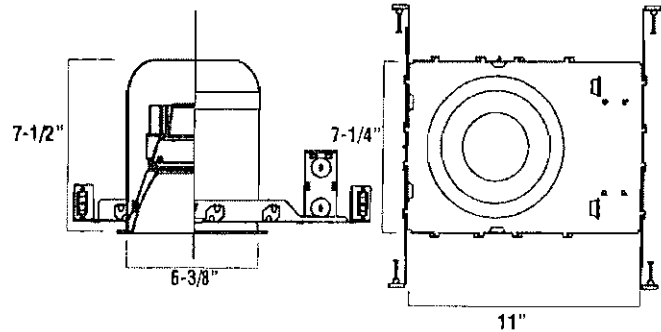
DIMENSIONS



Module Only



ARRA
Funding Compliant



Assembled in Housing

ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **PDL6K LED HO NW 120**

Prefix	Light Source	Lumen Output	Color Temp	Line Voltage
PDL6K - 6" Downlight (Module & housing)	LED	HO - High Output SS - Super-Saver	NW - Neutral White (4000K)	120 - 120 VAC

PDL6K-LED-HO-NW-120-SD H



Project Name _____ Fixture Type _____
Catalog # _____

01/21/14
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LED AREA LIGHTS - PATRIOT® SMALL (XPTS3)



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	<ul style="list-style-type: none"> → Type II 3 - Type III → Forward → Throw 6 - Type V 	LED	63	<ul style="list-style-type: none"> SS - Super → Super → Super LW - Low West 	<ul style="list-style-type: none"> CW - Cool White → Neutral White 	<ul style="list-style-type: none"> UE - Universal Voltage (120-277) 347-480 	<ul style="list-style-type: none"> BLK - Black BRZ - Bronze GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White 	<ul style="list-style-type: none"> 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

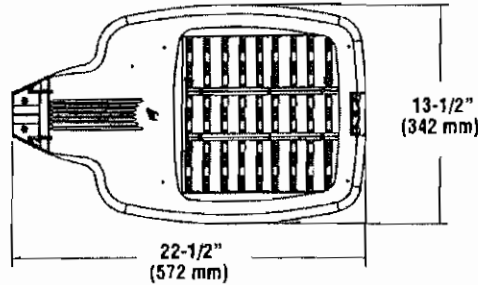
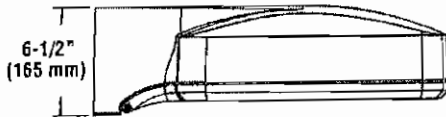
Note: House Side Shield adds to fixture EPA. Consult Factory.

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

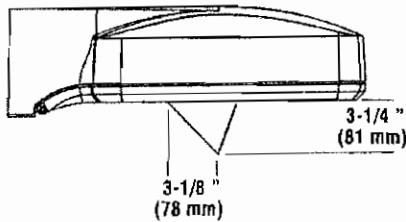
Description	Order Number	Description	Order Number
RPPC - Round Pole Plate	141940CLR	XPTS3 HSS - House Side Shield Type 2, 3, FT	516850BLK**
FK120 - Single Fusing	FK120*	XPTS3 PLS - Polycarbonate Shield	263016
FK277 - Single Fusing	FK277*	BKS-BO-PTS-WM-* - CLR - Wall Mount Plate	263230CLR
DFK208, 240 - Double Fusing	DFK208, 240*	BKA-BO-PTS-EC-E-CLR - Extension Arm	263228CLR
DFK480 - Double Fusing	DFK480*	BKA-BO-BA-B-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

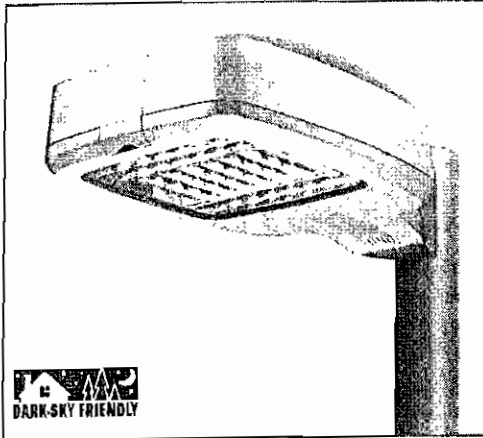


House Side Shield (HSS)
Rear Mounted (516850 BLK)



K

LED AREA LIGHTS - PATRIOT® SMALL (XPTS3)



US patent 7828456, 7952293, 8002428, 8177386 and CAN 2736757 and MX patent 29631 and ISRL 49679 and AUS 2008312666 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 (JE-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. (Driver 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.

		# 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	5700	5600	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.



XPTS3-3-LED-63-LW-CW-UE

K

Also available in traditional light sources



Project Name _____, Fixture Type _____
Catalog # _____

10/28/13
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LSI INDUSTRIES INC.

LSI ABOLITE® LED ANGLED REFLECTOR (AD)



LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **AD 200 10 CW LED UE MSV LDS96 WL DO**

Prefix	# of LED's	Color Temperature	Light Source	Input Voltage	Reflector Color	Mounting	Options
AD 100 AD 150 AD 200	10	CW - Cool White NW - Neutral White WW - Warm White	LED	120-240 ²	MSV-Metallic Silver GWT-Gloss White GBK-Gloss Black GRD-Gloss Red GPT-Textured Graphite RUS-Textured Rust SCP-Satin Copper STQ-Satin Turquoise SVG-Satin Verde Green	LDS96 WL - Factory prewired leads for use with stem or bracket mounting	DO - Directional Optics

1- Cordsets not available for AD Series.

2- Fixture will not operate on 277VAC (120-240 only).

CANOPY ORDERING INFORMATION (Accessories are field installed)	
Description	Order Number
3/4" (19mm) Tap Decorative Box Cover Aligner - Gloss White	BC600 3 GWT
3/4" (19mm) Tap Round Box Cover Aligner - Zinc	BC585 ZINC
3/4" (19mm) Tap Square Box Cover Aligner - Zinc	BC585SQ ZINC

- Standard BC600 finish is Gloss White Powder; other RLM colors available.

WIRE GUARD ORDERING INFORMATION (Accessories are field installed)	
Description	Order Number
7" (178mm) Convex Wire Guard - Metallic Silver	COG 7 MSV
9" (229mm) Convex Wire Guard - Metallic Silver	COG 9 MSV
11" (279mm) Convex Wire Guard - Metallic Silver	COG 11 MSV

- Standard finish is Metallic Silver Powder; other RLM colors available.

CONDUIT SYSTEM ORDERING INFORMATION (Accessories are field installed)	
Description	Order Number
3/4" x 3' (19mm x 76mm) Aluminum Stem - Gloss White	ST 3 3 GWT
3/4" x 6' (19mm x 152mm) Aluminum Stem - Gloss White	ST 6 3 GWT
3/4" x 12' (19mm x 4m) Aluminum Stem - Gloss White	ST 12 3 GWT
3/4" x 18' (19mm x .5m) Aluminum Stem - Gloss White	ST 18 3 GWT
3/4" x 24' (19mm x .6m) Aluminum Stem - Gloss White	ST 24 3 GWT
3/4" x 36' (19mm x .9m) Aluminum Stem - Gloss White	ST 36 3 GWT
3/4" x 48' (19mm x 1.2m) Aluminum Stem - Gloss White	ST 48 3 GWT
3/4" x 60' (19mm x 1.5m) Aluminum Stem - Gloss White	ST 60 3 GWT
3/4" x 72' (19mm x 1.8m) Aluminum Stem - Gloss White	ST 72 3 GWT
3/4" (19mm) Alum. Stem Coupler - Gloss White	COP 3 GWT

- Standard finish is Gloss White Powder; other RLM colors available.

GOOSE NECK BRACKET ORDERING INFORMATION (Accessories are field installed)	
Description	Order Number
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GB A 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GB B 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GB C 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GB D 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GB E 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GB F 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GB G 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GB H 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GB J 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GB K 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GB P 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GB U 3 GWT

WALL BRACKETS ORDERING INFORMATION (Accessories are field installed)	
Description	Order Number
Contemporary Wall Bracket - Medium - Gloss White	CWBM 1 GWT
Contemporary Wall Bracket - Long - Gloss White	CWBL 1 GWT
Nostalgic Aluminum Wall Scroll Bracket - Gloss White	DWB 1 GWT

BRACKETS

- See Indoor section for detail on bracket sizes and shapes.

- Standard finish is Gloss White Powder; colors available.

- Designed for mounting to recessed 4" (102mm) octagon box (by others).



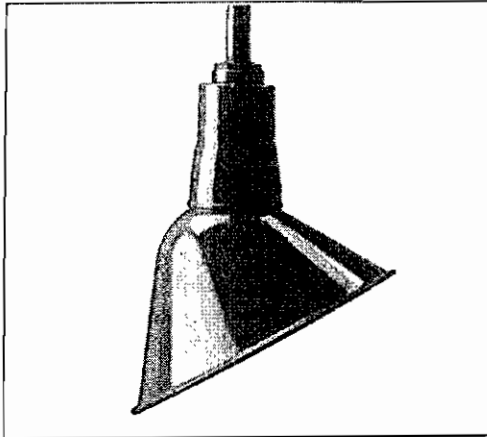
Project Name _____ Fixture Type **G**
Catalog # _____

D1/21/14
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LSI INDUSTRIES INC.

LSI ABOLITE® LED ANGLED REFLECTOR (AD)



US patents 0598182 & 0581585 & 0581544 & 7697766 and US & Int'l. patents pending



APPLICATIONS - Signage Lighting and Accent Lighting. Interior or Exterior.

PRODUCT HIGHLIGHTS

- **“Green” Energy-Saving** - Reduces greenhouse gas emissions, slashes operating costs, extends life and eliminates costly lamp disposal involving mercury waste.
- **Long Lasting Sparkle** - LED light beam contains no heat, and no UV, which means degradation in color or quality of the product under display is minimized.
- **Dramatically Lower Maintenance Costs** - 60,000-hour LED source extends life 3 to 5 times as compared to conventional HID sources, 30 times incandescent.
- **Integrated Power Supply** - Built into fixture allowing RLM to be connected directly to line voltage.

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location.

LEDS - Select high-brightness LEDs in Cool White (5300° K nominal), Neutral White (4000° K nominal), and Warm White (3500° K nominal) color temperature. 70 CRI (nominal) CW. 80 CRI (nominal) NW and WW.

OPTIONAL DIRECTIDNAL OPTICS - Allows field adjustment of the light beam for directional illumination of signage.

REFLECTOR - Heavy duty spun galvanized steel construction with polyester powder coat finish.

LIGHT OUTPUT - With an input power of 11 watts: DO - Optional Directional Optics (nominal) - Cool White - 970 lumens, Neutral White - 810 lumens and Warm White - 745 lumens. Symmetrical Optics (nominal) - Cool White - 905 lumens, Neutral White - 760 lumens and Warm White - 700 lumens

MOUNTING - Fixed hub tapped for 3/4" NPT conduit. Pre-wired with 96" leads. Not designed for uplight applications.

ELECTRICAL - Integral, surge protected power supply operates on 120-240 VAC (50/60Hz) input; no external power supplies required.

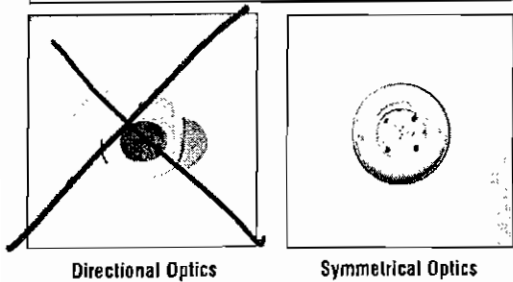
DRIVER - State-of-the-art driver designed specifically for RLM fixtures provides unsurpassed system efficiency. Components are fully encased in potting material for moisture resistance. Driver complies with IEC and FCC standards.

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

FINISH - Available in either architectural textured, high gloss or satin finish.

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

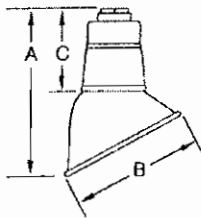
LISTING - Listed to U.S. and Canadian safety standards. Suitable for wet locations.



Directional Optics

Symmetrical Optics

DIMENSIONS



Prefix	Height (A)	Diameter (B)	Neck (C)	Weight (lbs./kg)
AD 100	10" (254mm)	7" (178mm)	5" (127mm)	2.0 (.9kg)
AD 150	11-1/2" (292mm)	9" (229mm)	5-1/4" (133mm)	2.0 (.9kg)
AD 200	13-1/2" (343mm)	11" (279mm)	5-1/2" (140mm)	2.5 (1.1kg)

Also available in traditional light sources

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



AD 150-10-CW-LED-UE



Project Name _____ Fixture Type GA
 Catalog # _____

01/21/14

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NOTE: Open space percentage for Larson property = 39.0%

NOTE: Open space percentage for Edison Express property = 35.0%

LANDSCAPE PLAN
 SCALE 1" = 20'

BIO-RETENTION PLANTINGS - (3,960 s.f.)

SYMBOL	QUANTITY	SCIENTIFIC NAME	COMMON NAME	SIZE	THREATS
vv	324	<i>Carex granatilis</i>	Tollway Sedge	2' x 2' x 5" DCP	16" O.C.
ww	324	<i>Carex shortiana</i>	Short's Sedge	2' x 2' x 5" DCP	16" O.C.
xx	324	<i>Sporobolus heterolepis</i>	Frailie Droopseed Grass	2' x 2' x 5" DCP	16" O.C.
yy	324	<i>Iris virginica</i>	Southern Blueflag Iris	2' x 2' x 5" DCP	16" O.C.
zz	324	<i>Rudbeckia fulgida</i>	Orange Coneflower	2' x 2' x 5" DCP	16" O.C.

Note: Plants to be planted in clusters of 12-10.

PLANTING SCHEDULE

SYMBOL	QUANTITY	SCIENTIFIC NAME	COMMON NAME	SIZE	CHARACTER	DATE	MINOR HEIGHT
TREES							
A	5	<i>Gleditsia tricanthos 'Inermis'</i>	Thornless Honeylocust	2 1/2"	Canopy	FAST	45'+
B	21	<i>Cercis canadensis</i>	Redbud	2 1/2"	Ornamental	FAST	25-30'
C	11	<i>Tilia cordata</i>	Littleleaf Linden	2 1/2"	Canopy	SLOW	45'+
D	5	<i>Quercus bicolor</i>	Swamp White Oak	2 1/2"	Canopy	MED.	45'+
E	14	<i>Carpinus caroliniana</i>	American Hornbeam	2 1/2"	Ornamental	MED.	20-35'
F	5	<i>Acer rubrum 'Franseria'</i>	Red Sunset Maple	2 1/2"	Canopy	FAST	45'+
G	5	<i>Carpinus betulus</i>	European Hornbeam	2 1/2"	Canopy	MED.	35-40'
H	14	<i>Picea glauca</i>	White Spruce	6'-6"	Evergreen	MED.	30-40'
J	20	<i>Platycladus orientalis 'Hoimstrup'</i>	Holmstrup Oriental Arborvitae	5'-6"	Evergreen	SLOW	10-15'
SHRUBS & LARGE GRASSES							
a	60	<i>Itea virginica 'Sprich'</i>	Little Henry Sweetgale	3 gal.			
b	77	<i>Juniperus x pfitzeriana 'Sea Green'</i>	Sea Green Juniper	5 gal.			
c	64	<i>Rhus aromatica 'Gro-Low'</i>	Gro-Low Sumac	3 gal.			
d	113	<i>Buxus 'Green Velvet'</i>	Green Velvet Boxwood	5 gal.			
e	30	<i>Rosa 'Radrazz'</i>	Knockout Rose	5 gal.			
f	70	<i>Calamagrostis x scutiflora 'Karl Foerster'</i>	Karl Foerster Feather Reed Grass	5 gal.			
g	3	<i>Hydrangea paniculata 'Jane'</i>	Little Lime Hydrangea	5 gal.			
h	32	<i>Miscanthus sinensis 'Yaku Jima'</i>	Yaku Jima Dwarf Maiden Grass	3 gal.			
j	17	<i>Wegelia florida 'Alexandra'</i>	White and Rose Wegelia	5 gal.			
k	15	<i>Ilex 'Mesog/Mesdob'</i>	China Girl/Boy Holly	7 gal.			
m	43	<i>Cornus sericea</i>	Red Twig Dogwood	3 gal.			
n	7	<i>Miscanthus sinensis 'Gracillimus'</i>	Maiden Grass	5 gal.			
p	15	<i>Cornus sericea 'Flaviramea'</i>	Yellow Twig Dogwood	3 gal.			
PERENNIALS							
aa	305	<i>Viola minor 'Bowles'</i>	Bowles Periwinkle	1 qt.			
bb	80	<i>Liriope muscari 'Big Blue'</i>	Big Blue Liriope	1 gal.			
cc	10	<i>Hemerocallis 'Stella de Oro'</i>	Stella de Oro Daylily	1 gal.			

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

MITIGATION PLANTING SCHEDULE

SYMBOL	QUANTITY	SCIENTIFIC NAME	COMMON NAME	SIZE	CHARACTER	DATE	MINOR HEIGHT
E1	4	<i>Carpinus caroliniana</i>	American Hornbeam	2 1/2"	Ornamental	SLOW	20-35'
F1	2	<i>Acer rubrum 'Franseria'</i>	Red Sunset Maple	2 1/2"	Canopy	FAST	45'+
K1	2	<i>Taxodium distichum</i>	Bald Cypress	2 1/2"	Canopy	MED.	40'+

City of Chesterfield Tree Preservation and Landscape Requirements:
 1) Street trees shall not be planted closer than three (3) feet to any curb or paved shoulder.
 2) Street trees shall be located within a street right-of-way unless so approved by variance.
 3) Street trees shall not be placed within twenty-five (25) feet of street lights, street signs, and intersections.
 4) No trees shall be planted within ten (10) feet of street inlets or manholes.
 5) No tree, shrub, or planting shall be placed within the sight distance triangle or the area of adjacent right-of-way bounded by the street pavement and the extension of the sight distance triangle.

Revisions:

Date	Description	No.
11/16/13	City Comments	1
12/30/13	City Comments	2
02/13/14	City Comments	3
04/14/14	City Comments	4
05/07/14	City Comments	5
05/28/14	City Comments	6
07/01/14	Plan Revision	7
07/23/14	Plan Revision	8
08/27/14	Plan Revision	9

Drawn: BAR
 Checked: JAS

loomis-associates

Professional Engineer
 State of Missouri
 License No. 12771



Loomis Associates, Inc.
 Missouri State Certificate of Authority # LAC 0000019

Sheet Title: Landscape Plan
 Sheet No.: L-1
 Date: 09/30/13
 Job #: 504.013

Edison Express
 Chesterfield, MO
 JLA Development, LLC

Structural Engineer:

Edison Express

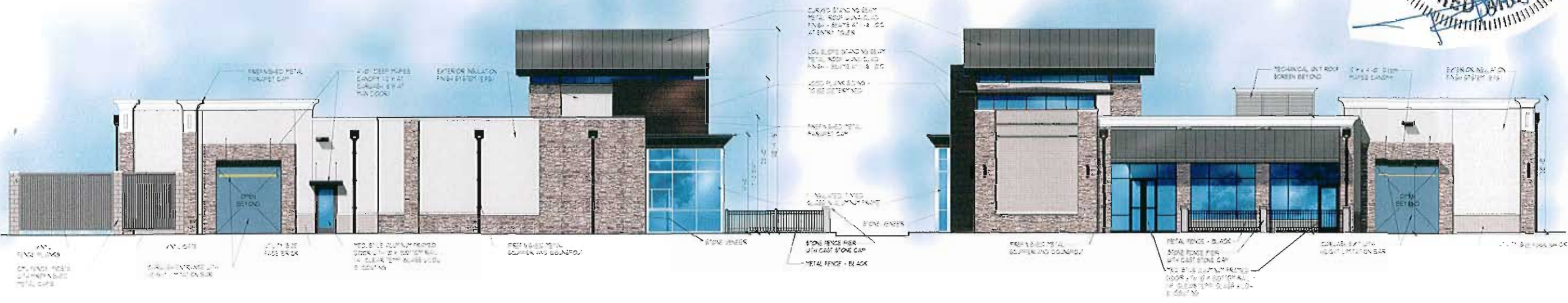
Address
Chesterfield, MO 63005

New C-Store for:



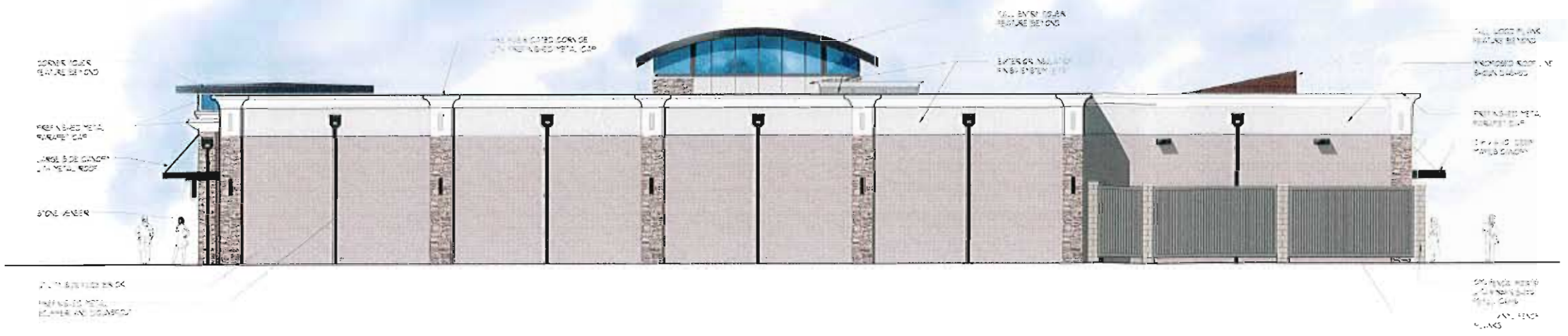
WEST ELEVATION
18'-11 1/2"

02-17-2012



NORTH ELEVATION
18'-11 1/2"

SOUTH ELEVATION
18'-11 1/2"



EAST ELEVATION
21'-11 1/2"



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Manchester, Missouri 63011
Phone (636) 230-0300
Fax (636) 230-0101
www.dialarchitects.com

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

GENERAL NOTES

- ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. UTILITIES NOT LOCATED BY THE CONTRACTOR SHALL BE ON RECORD WITH THE MISSOURI ONE CALL SYSTEM.
- ALL ELEVATIONS ARE BASED ON M.S.D. BENCHMARKS.
- BOUNDARY AND TOPOGRAPHIC SURVEY BY MARLER SURVEYING CO.
- ALL MATERIALS AND METHODS OF CONSTRUCTION TO MEET THE CURRENT STANDARDS AND SPECIFICATIONS OF THE DIRECTOR OF PUBLIC WORKS FOR THE CITY OF CHESTERFIELD.
- ALL GRADED AREAS SHALL BE PROTECTED FROM EROSION BY EROSION CONTROL DEVICES AND/OR MASONRY, ROCK, FROZEN EARTH, RUBBER, ORGANIC MATERIAL AND DEBRIS.
- PROPOSED CONTOURS SHOWN ARE FINISHED ELEVATIONS ON PAVED AREAS.
- GRADING AND STORM WATER PER M.S.D. STANDARD SPECIFICATIONS AND THE CITY OF CHESTERFIELD STANDARDS.
- DRIVE ENTRANCES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI.
- SEEDING, SOONING, MULCHING AND PLANTINGS FOR ALL DISTURBED AREAS SHALL BE SPECIFIED ON THE LANDSCAPE PLAN.
- SOILMAKES ALONG THE ACCESSIBLE ROAD SHALL NOT HAVE A SLOPE EXCEEDING 1% 20% SLOPES GREATER THAN 1% 20% MUST BE DESIGNED AS A RAMP.
- SIDEWALKS, CURB RAMPS, RAMPS AND ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) ALONG WITH THE REQUIRED GRASSES, CONSTRUCTION MATERIALS, SPECIFICATIONS AND PLANTING. THE ADAAG GUIDELINES SHALL TAKE PRECEDENCE AND THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.
- BY GRAPHIC PLOTTING ONLY, THIS PROPERTY DOES NOT LIE WITHIN A SPECIAL PANEL NUMBER 291800140 (REVISED TO REFLECT LAMAR DATED APRIL 17, 2000) AND COMMUNITY NUMBER 291800140 (REVISED TO REFLECT LAMAR DATED APRIL 17, 2000) WHICH BEARS AN EFFECTIVE DATE OF AUGUST 2, 1995. THE PROPERTY LIES WITHIN SHADY ZONE 4 (AREAS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE, AND AREAS PROTECTED BY LEAVES FROM THE 100-YEAR FLOOD).
- NO ON-SITE ILLUMINATION SOURCE SHALL BE SO SITUATED THAT LIGHT IS CAST INTO THE ADJACENT PROPERTY OR INTO THE PUBLIC RIGHT-OF-WAY.
- APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF SIGNAGE. SIGN APPROVAL IS A SEPARATE PROCESS.
- ALL PROPOSED UTILITIES SHALL BE PLACED UNDERGROUND.
- ROOF TOP EQUIPMENT SHALL BE SCREENED.
- ROOF TOP EQUIPMENT SHALL CONFORM TO MSD REQUIREMENTS FOR WATER QUALITY, IF APPLICABLE.
- NO CONSTRUCTION RELATED PARKING SHALL BE PERMITTED WITHIN THE RIGHT-OF-WAY OF EDISON OR LONG ROAD.
- ALL PROVISIONS OF THE CITY CODE SHALL APPLY.
- ON-SITE INTERNAL PEDESTRIAN AND TRAFFIC SAFETY DIRECTIONAL SIGNAGE SHALL BE DETAILED AND REVIEWED AS PART OF THE SITE IMPROVEMENT PLAN PROCESS.
- FUTURE CHESTERFIELD WATER MAINS (MASTER STORM MAIN EASEMENTS ON THE NORTHERN PROPERTY LINE AND MASTER STORM MAIN EASEMENTS ON THE EASTERN PROPERTY LINE) ARE NOT TO BE CONSIDERED IN THIS PLAN. THE CURRENT PLAN IS BASED ON THE MOST RECENT RECORDS. ANY CHANGES TO THE MASTER STORM MAINS WILL BE NOTED TO DEMONSTRATE FUNCTIONAL EQUIVALENCE AT THE IMPROVEMENT PLAN STAGE.

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
- PROPOSED SPOT ELEVATION
- SWALE/DRAINAGE PATH

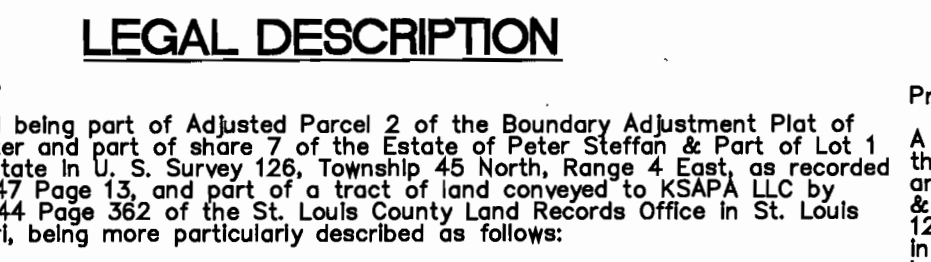
LEGAL DESCRIPTION

Proposed Lot A
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 302 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 feet 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 27 minutes 00 seconds East 5.00 feet to a set rebar, thence South 00 degrees 33 minutes 00 seconds West a distance of 559.18 feet to a set rebar, thence South 10 degrees 33 minutes 17 seconds East a distance of 68.07 feet to a 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 61.22 feet to a found 1/2" rebar with cap stamped "Marler 347-D", thence North 88 degrees 35 minutes 30 seconds West a distance of 104.77 feet to a found 1/2" rebar with cap stamped "Marler 347-D", thence 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 52 minutes 00 seconds East 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 line of North 01 degrees 24 minutes 00 seconds East a distance of 14.01 feet to a set rebar, thence continuing along the Eastern right of way line of Long Road, North 01 degrees 24 minutes 00 seconds East a distance of 129.78 feet to a set rebar, thence North 01 degrees 27 minutes 00 seconds East a distance of 283.31 feet to the point of beginning containing 114,202 square feet, or 2.62 acres more or less as calculated by Marler Surveying Company, Inc. during April 2014.

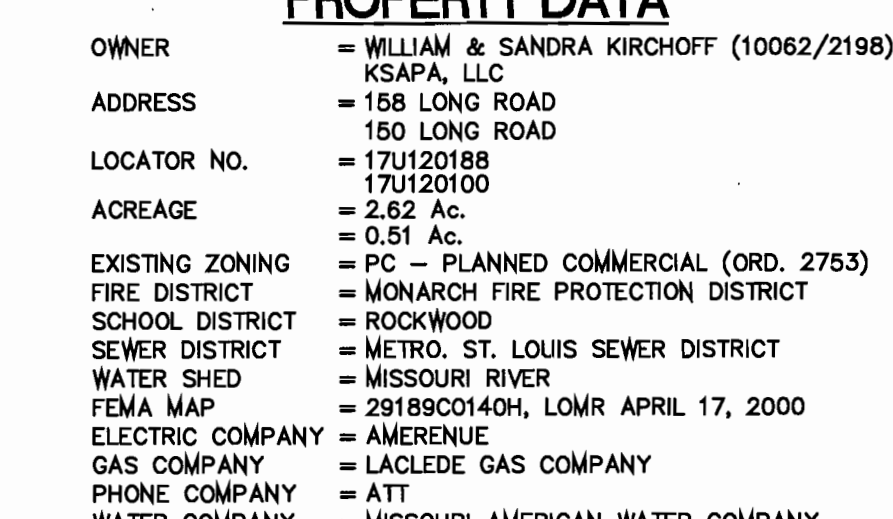
LEGAL DESCRIPTION

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 302 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 feet 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 parcel, thence South 00 degrees 27 minutes 00 seconds East 5.00 feet to a set rebar, thence South 00 degrees 33 minutes 00 seconds West a distance of 559.18 feet to a set rebar, thence South 10 degrees 33 minutes 17 seconds East a distance of 68.07 feet to a 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 61.22 feet to a found 1/2" rebar with cap stamped "Marler 347-D", thence North 88 degrees 35 minutes 30 seconds West a distance of 104.77 feet to a found 1/2" rebar with cap stamped "Marler 347-D", thence 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 52 minutes 00 seconds East 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 line of North 01 degrees 24 minutes 00 seconds East a distance of 14.01 feet to a set rebar, thence continuing along the Eastern right of way line of Long Road, North 01 degrees 24 minutes 00 seconds East a distance of 129.78 feet to a set rebar, thence North 01 degrees 27 minutes 00 seconds East a distance of 283.31 feet to the point of beginning containing 22,113 square feet, or 0.51 acres more or less as calculated by Marler Surveying Company, Inc. during April 2014.

TRASH ENCLOSURE DETAIL



LOCATION MAP



PROPERTY DATA

OWNER
KSAPA, LLC
158 LONG ROAD
150 LONG ROAD
17120100
17120100
2.82 AC.
0.51 AC.
PC - PLANNED COMMERCIAL (ORD. 2753)
FIRE DISTRICT
MONARCH FIRE PROTECTION DISTRICT
SCHOOL DISTRICT
ROCKWOOD
SEWER DISTRICT
METRO. ST. LOUIS SEWER DISTRICT
WATER SAID
MISSOURI RIVER
FEMA MAP
291800140H, LOMR APRIL 17, 2000
ELECTRIC COMPANY
AMERENUE
GAS COMPANY
LACLEDE GAS COMPANY
PHONE COMPANY
ATT
WATER COMPANY
MISSOURI AMERICAN WATER COMPANY

DENSITY CALCULATIONS

PROPOSED LOT 'A'
G.A.R.
OPEN SPACE = 40,891 S.F.
SITE AREA = 113,437 S.F.
(40,891/113,437) x 100 = 35%
PROPOSED LOT 'B'
G.A.R.
OPEN SPACE = 8,640 S.F.
SITE AREA = 16,900 S.F.
(8,640/16,900) x 100 = 51%

PARKING CALCULATIONS

PARKING REQUIRED PROPOSED LOT 'A'
C-STORE: 4.5 per 1000 g.s.f. = 2,202 x 4.5 = 23 STALLS
RESTAURANT: 15.0 per 1000 g.s.f. = 1,084 x 15.0 = 16 STALLS
CAR WASH: 2 per 3 EMPLOYEES = 2 x 2 = 6 STALLS
TOTAL REQUIRED: 45 SPACES

PARKING PROVIDED PROPOSED LOT 'A'

43 STALLS
2 STALLS
45 STALLS
(41 SPACES ON SITE, 4 SPACES SHARED ON LOT B)

PARKING PROVIDED PROPOSED LOT 'B'

OFFICE (GENERAL): 4.0 per 1000 g.s.f. = 2,000 x 4.0 = 12 STALLS
OFFICE (GENERAL): 3.5 per 1000 g.s.f. = 4,000 x 3.5 = 14 STALLS
TOTAL REQUIRED: 26 SPACES

PARKING PROVIDED PROPOSED LOT 'B'

28 STALLS
3 STALLS
30 STALLS

STATE OF MISSOURI

On this _____ day of _____ A.D., 2014, before me personally appeared _____ to me known, who, being by me sworn in, did say that he is the Manager of KSAPA, 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.

STATE OF MISSOURI

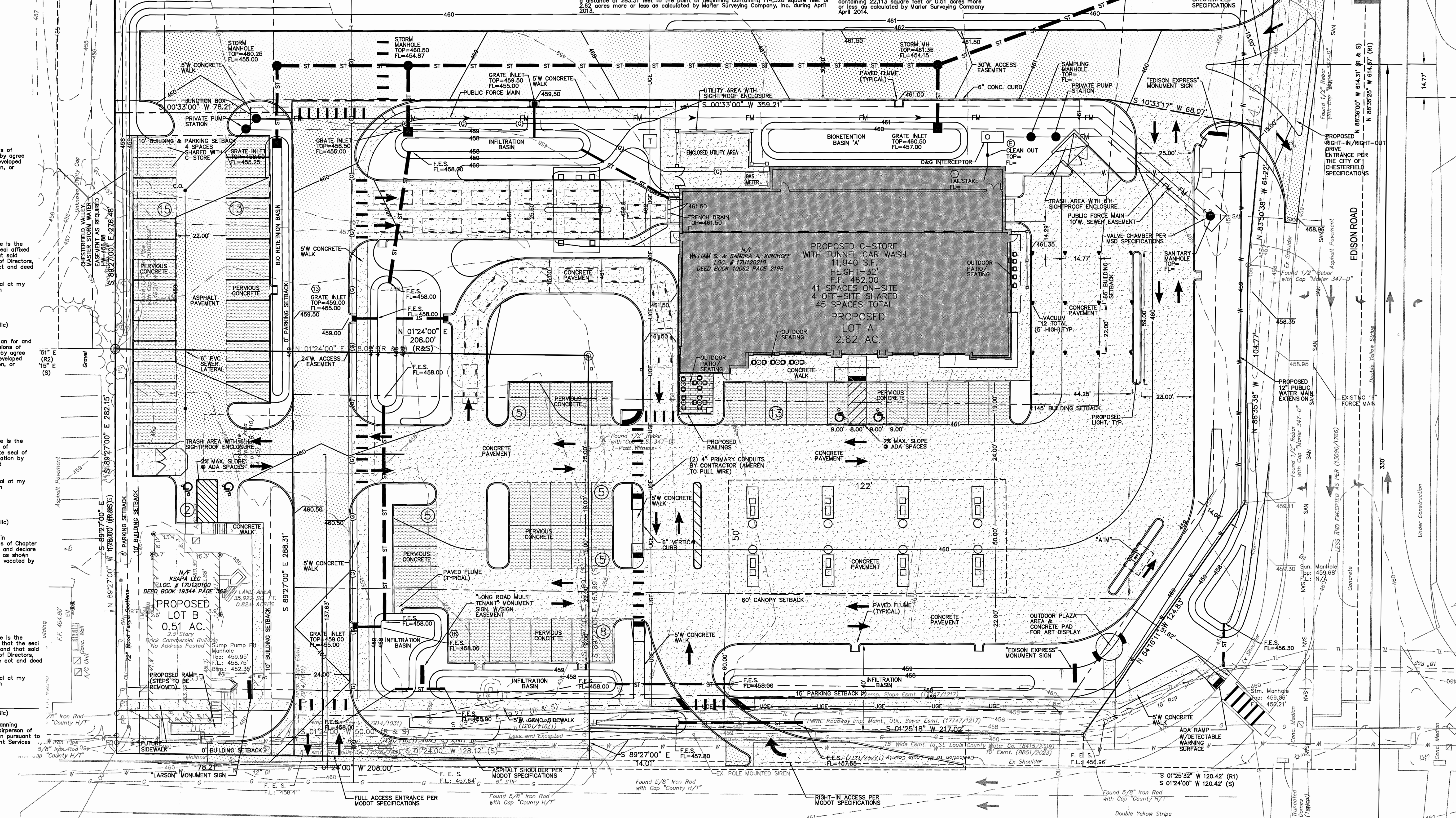
On this _____ day of _____ A.D., 2014, before me personally appeared _____ to me known, who, being by me sworn in, did say that he is the Manager of JLA DEVELOPMENT LLC, a corporation in the State of Missouri, and that the seal affixed to the foregoing instruments is the corporate seal of said Corporation, 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.

STATE OF MISSOURI

On this _____ day of _____ A.D., 2014, 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.

STATE OF MISSOURI

On this _____ day of _____ A.D., 2014, 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.



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

BENCHMARKS
PROJECT BENCHMARK
M.S.D. BENCHMARK 12-171, ELEV. 460.06 "STANDARD ALUMINUM DISK"
STAMPED S-38, 100 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 Gateway 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. Gateway must be involved during the construction phase to determine that subsurface conditions are as anticipated and that recommendations relative to construction are implemented.
Gateway
MICHAEL T. MULLIN, P.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. LS. 347-D
Marty L. Marler, R.L.S.

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

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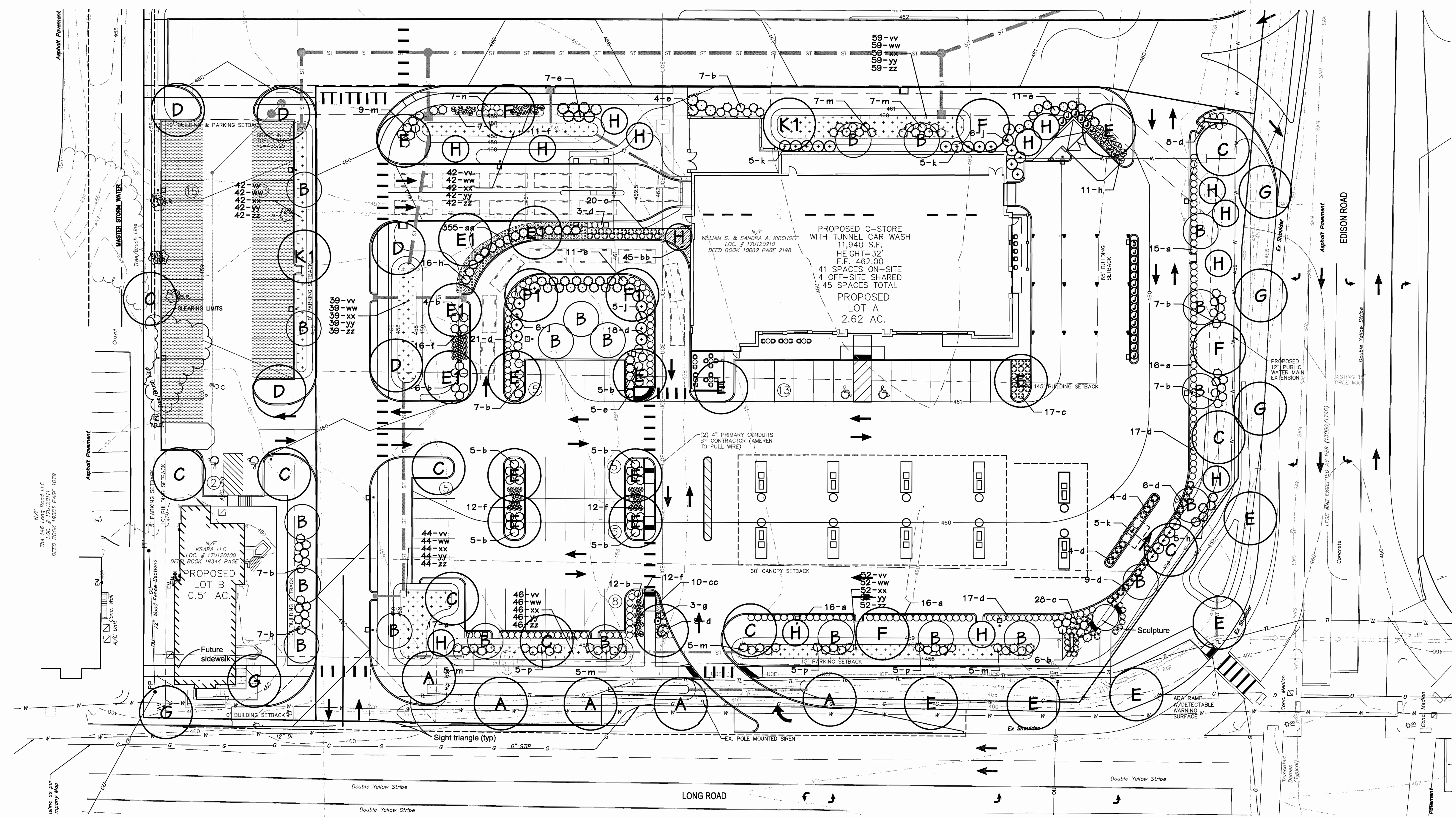
Site Development Section Plan
Edison Express
158 Long Road
Chesterfield, Missouri 63005

RECEIVED
City of Chesterfield
AUG 28 2014
Department of Public Services

Proj. #	No.	Description	Date
1129	No.	Description	Date
	City	Submittal	09-30-13
	Per	City	11-11-13
	Per	City	02-14-14
	Per	City	04-16-14
	Per	City	05-07-14
	Per	City	05-28-14
	Per	City	07-02-14
	Per	City	07-23-14
	Per	Client	08-25-14

Site Development Section Plan
C1
of 1

Edison Express
Chesterfield, MO
 JLA Development, LLC



NOTE: Open space percentage for Larson property = 39.0%

NOTE: Open space percentage for Edison Express property = 35.0%

LANDSCAPE PLAN
 SCALE 1" = 20'

BIO-RETENTION PLANTINGS - (3,960 s.f.)

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
vv	324	<i>Carex praegracilis</i>	Tollway Sedge	2" x 2" x 5" DCP	16" O.C.
ww	324	<i>Carex shortiana</i>	Short's Sedge	2" x 2" x 5" DCP	16" O.C.
xx	324	<i>Sporobolus heterolepis</i>	Prairie Dropseed Grass	2" x 2" x 5" DCP	16" O.C.
yy	324	<i>Iris virginica</i>	Southern Blueflag Iris	2" x 2" x 5" DCP	16" O.C.
zz	324	<i>Rudbeckia fulgida</i>	Orange Coneflower	2" x 2" x 5" DCP	16" O.C.

Note: Plugs to be planted in clusters of 12-16

PLANTING SCHEDULE

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	RATE	MATURE HEIGHT
TREES							
A	5	<i>Gleditsia triacanthos 'Inermis'</i>	Thornless Honeylocust	2 1/2"	Canopy	FAST	45'+
B	21	<i>Cercis canadensis</i>	Redbud	2 1/2"	Ornamental	FAST	25-30'
C	11	<i>Tilia cordata</i>	Littleleaf Linden	2 1/2"	Canopy	SLOW	45'+
D	5	<i>Quercus bicolor</i>	Swamp White Oak	2 1/2"	Canopy	MED.	45'+
E	14	<i>Carpinus caroliniana</i>	American Hornbeam	2 1/2"	Ornamental	MED.	20-35'
F	5	<i>Acer rubrum 'Frankered'</i>	Red Sunset Maple	2 1/2"	Canopy	FAST	45'+
G	5	<i>Carpinus betulus</i>	European Hornbeam	2 1/2"	Canopy	MED.	35-40'
H	14	<i>Picea glauca</i>	White Spruce	6-8"	Evergreen	MED.	30-40'
J	20	<i>Platycladus orientalis 'Holmstrup'</i>	Holmstrup Oriental Arborvitae	5-6"	Evergreen	SLOW	10-15'
SHRUBS & LARGE GRASSES							
a	80	<i>Itea virginica 'Sprich'</i>	Little Henry Sweetpire	3 gal.			
b	77	<i>Juniperus x pfitzeriana 'Sea Green'</i>	Sea Green Juniper	5 gal.			
c	64	<i>Rhus aromatica 'Gro-Low'</i>	Gro-Low Sumac	3 gal.			
d	113	<i>Buxus 'Green Velvet'</i>	Green Velvet Boxwood	5 gal.			
e	30	<i>Rosa 'Radrazz'</i>	Knockout Rose	5 gal.			
f	70	<i>Calamagrostis x acutiflora 'Kari Foerster'</i>	Kari Foerster Feather Reed Grass	5 gal.			
g	3	<i>Hydrangea paniculata 'Jane'</i>	Little Lime Hydrangea	5 gal.			
h	32	<i>Miscanthus sinensis 'Yaku Jima'</i>	Yaku Jima Dwarf Maiden Grass	3 gal.			
i	17	<i>Weiqla florida 'Alexandra'</i>	Wine and Roses Weiqla	5 gal.			
k	15	<i>Ilex 'Meoq/Meodob'</i>	China Girl/Boy Holly	7 gal.			
m	43	<i>Cornus sericia</i>	Red Twig Dogwood	3 gal.			
n	7	<i>Miscanthus sinensis 'Gracillimus'</i>	Maiden Grass	5 gal.			
p	15	<i>Cornus sericia 'Flaviramea'</i>	Yellow Twig Dogwood	3 gal.			
PERENNIALS							
aa	355	<i>Vinca minor 'Bowlee'</i>	Bowlee Periwinkle	1 qt.			
bb	60	<i>Liriope muscari 'Big Blue'</i>	Big Blue Liriope	1 gal.			
cc	10	<i>Hemerocallis 'Stella de Oro'</i>	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	REMARKS	RATE	MATURE HEIGHT
E1	4	<i>Carpinus caroliniana</i>	American Hornbeam	2 1/2"	Ornamental	SLOW	20-35'
F1	2	<i>Acer rubrum 'Frankered'</i>	Red Sunset Maple	2 1/2"	Canopy	FAST	45'+
K1	2	<i>Taxodium distichum</i>	Bald Cypress	2 1/2"	Canopy	MED.	45'+

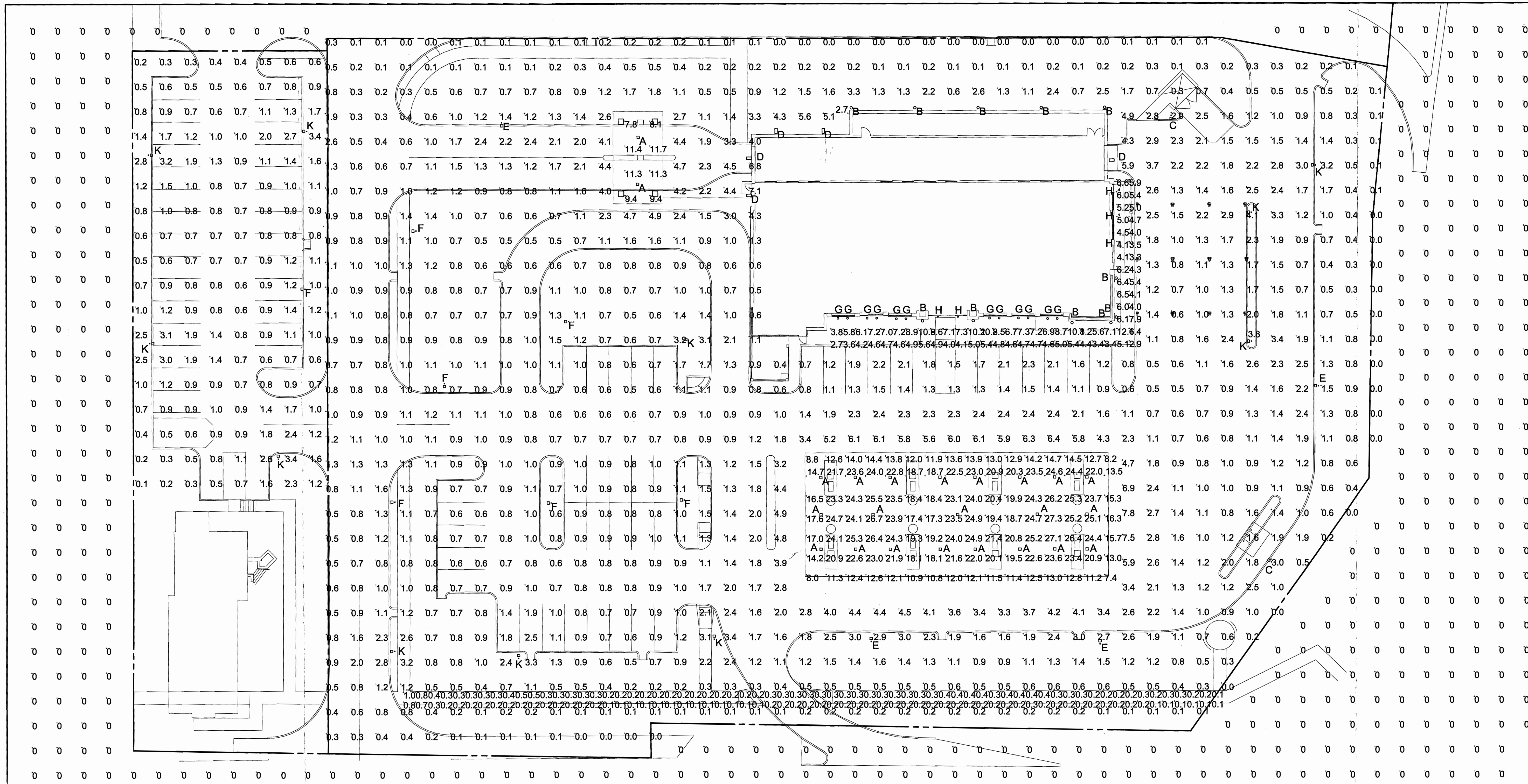
- City of Chesterfield Tree Preservation and Landscape Requirements:**
- 1) Street trees shall not be planted closer than three (3) feet to any curb or paved shoulder.
 - 2) Street trees shall be located within a street right-of-way unless so approved by variance.
 - 3) Street trees shall not be placed within twenty-five (25) feet of street lights, street signs, and intersections.
 - 4) No trees shall be planted within ten (10) feet of street inlets or manholes.
 - 5) No tree, shrub, or planting shall be placed within the sight distance triangle or the area of adjacent right-of-way bounded by the street pavement and the extension of the sight distance triangle.

Revisions:

Date	Description	No.
11/19/13	City Comments	1
12/30/13	City Comments	2
02/13/14	City Comments	3
04/14/14	City Comments	4
05/07/14	City Comments	5
05/28/14	City Comments	6
07/01/14	Plan Revision	7
07/23/14	Plan Revision	8
08/27/14	Plan Revision	9

Drawn: BAR
 Checked: JAS

loomisAssociates
 landscape architects/planners
 603 South Olive Street, Suite 1170
 St. Louis, MO 63101
 Phone: 314.556.1170
 Fax: 314.556.1171
 www.loomisassociates.com



PHOTOMETRIC PLAN
1"=20'

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

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Adjacent Parking Lot	+	1.1 fc	3.4 fc	0.1 fc	34.0:1	11.0:1
Sidewalk by Road	+	0.2 fc	1.0 fc	0.1 fc	10.0:1	2.0:1
Canopy	+	19.0 fc	27.3 fc	7.4 fc	3.7:1	2.6:1
Car Wash Canopy	+	10.0 fc	11.7 fc	7.8 fc	1.5:1	1.3:1
Main Parking Lot	+	1.3 fc	7.8 fc	0.0 fc	N/A	N/A
Outside Property Line	+	0 fc	0 fc	0 fc	N/A	N/A
Sidewalk by Building	+	5.8 fc	12.1 fc	2.7 fc	4.5:1	2.1:1

LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
□	A	23	CRU-SC-LED-LW-CW-UE			CRU-SC-LED-LW-CW-UE.IES	Absolute	0.95	76
○	B	11	P6W-LED20-120-FH#	FW DOWNLIGHT CYLINDER 6" DIA. APERTURE	20W LED	P6W-LED20.ies	1650	0.95	21.94
□	C	2	XPTS3-FE-LED-63-LW-CW-UE			XPTS3-FE-LED-63-LW-CW-UE.IES	Absolute	0.95	54
□	D	5	XPWS3-WW-LED-28-350-CW-UE			XPWS3-WW-LED-28-350-CW-UE.IES	Absolute	0.95	34
□	E	4	XPTS3-2-LED-63-LW-CW-UE			XPTS3-2-LED-63-LW-CW-UE.IES	Absolute	0.95	54
□	F	7	XPTS3-5-LED-63-LW-CW-UE			XPTS3-5-LED-63-LW-CW-UE.IES	Absolute	0.95	54
□	K	11	XPTS3-3-LED-63-LW-CW-UE			XPTS3-3-LED-63-LW-CW-UE.IES	Absolute	0.95	54
○	G	12	AD150-10-CW-LED-UE			AD150-10-CW-LED-UE.IES	Absolute	0.95	11.4
○	H	5	PDL6K-LED-HQ-NW-120-SD			PDL6K-LED-HQ-NW-120-SD.IES	Absolute	0.95	13

VISUAL

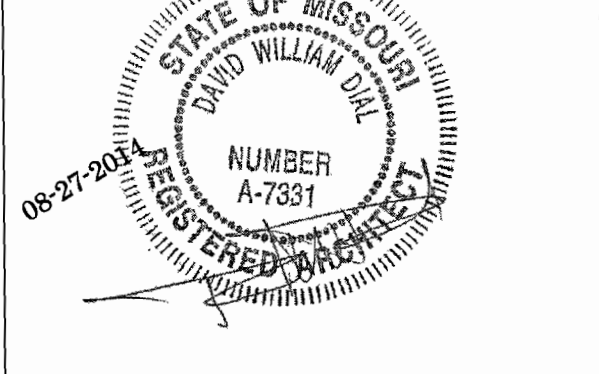
EDISON EXPRESS
158 Long Road, Chesterfield, MO 63017

New C-Store for.

ISSUE DATES:

SITE PLAN REVIEW:	09-30-13
SITE PLAN REVIEW:	10-28-13
SITE PLAN REVIEW:	11-01-13
SITE PLAN REVIEW:	11-14-13
SITE PLAN REVIEW:	12-26-13
ARB REVIEW:	12-30-13
REVISIONS:	02-17-14
REVISIONS:	03-13-14
REVISIONS:	04-07-14
REVISIONS:	06-30-14
REVISED SITE PLAN:	07-23-14
REVISED SITE PLAN:	08-27-14

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STATE OF MISSOURI REGISTERED ARCHITECT
DAVID WILLIAM DIAL - LICENSE NUMBER A-7331
DAVID W. DIAL ARCHITECTS, P.C.
ARCHITECTURAL CORPORATION #2000149091



THE ARCHITECT'S 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
14364 Manchester Road • Manchester, Missouri 63011
636 230 0400
www.dialarchitects.com

SHEET NUMBER:
PHOTOMETRIC PLAN
PROJECT NUMBER: 11180 DATE: 08-27-2014