



690 Chesterfield Pkwy W • Chesterfield MO 63017-0760 Phone: 636-537-4000 • Fax 636-537-4798 • www.chesterfield.mo.us

Architectural Review Board Staff Report

Project Type: Site Development Plan

Meeting Date: May 12, 2016

From: Jessica Henry, AICP

Project Planner

Cc: Aimee Nassif, Planning & Development Services Director

Location: 18382 Chesterfield Airport Road

Applicant: Archimages on behalf of Energy Marketing 709, LLC.

Description: The Wedge McGrath Plaza (Energy Express): A Site Development Plan,

Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 5.26 acre tract of land zoned "PC" Planned Commercial District located on the south side of Chesterfield Airport Road

west of its intersection with Wings of Hope Boulevard.

PROPOSAL SUMMARY

The request is for a convenience store with fast food restaurant with drive-thru, two fuel pump islands, drive-thru car wash, and retail building located within The Wedge development. The proposed convenience store and fast food restaurant building is 7,240 square feet in size, with an adjacent stand-alone carwash that is 3,000 square feet in size. The proposed retail building is 10,000 square feet in size. The Wedge development is zoned "PC" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance 2880. The exterior building materials will be comprised of EIFS, stone, brick, and aluminum and glass storefronts. The roof of the structures will primarily be a flat roof with a parapet wall; however, there is a batten seam metal roof on a portion of the convenience store building.

HISTORY OF SUBJECT SITE

The site was zoned "NU" Non-Urban District prior to the incorporation of the City of Chesterfield. The convenience store/service station structure was built in 1960 and was zoned "NU" Non-Urban District with the adoption of the 1965 St. Louis County Zoning Ordinance. The three large

parcels that are currently in existence were each granted a change in zoning from the "NU" Non-Urban District to the "C-8" Planned Commercial District in 1993. In November of 2014 the City Council approved Ordinance 2820 which unified the parcels under one comprehensive planned district ordinance.



STAFF ANALYSIS

General Requirements for Site Design:

A. Site Relationships

The subject site is located on the south side of Chesterfield Airport Road west of its intersection with Wings of Hope Boulevard. The western portion of the subject site is vacant, and many of the surrounding properties have never been developed. Across Chesterfield Airport Road to the north is the Comfort Inn & Suites hotel, and the west is the Chesterfield Blue Valley development.

B. Circulation System and Access

As the proposed development will be constructed in one phase on a unified parcel, all buildings and uses on the site will be permitted circulation throughout the site. Due the amount of activity on the site--namely, a full-service car wash with a dual lane drive-thru, two gas station pump islands, convenience store, drive-thru fast food restaurant, multiple retail spaces, independent vacuum stations, and an ATM—the internal circulation patterns remain under review by Staff.

2 | Page

Two access points are provided along Chesterfield Airport Road and two along Old Olive Street Road. However, the type and design of these accesses remains under review by Staff.

In addition to the sidewalk along Chesterfield Airport Road and Olive Street Road, internal crosswalks provide pedestrian circulation to the buildings within the development. The accessible spaces are located adjacent to the building entries.

C. Topography

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

D. Retaining Walls

Retaining walls are not proposed as part of this project.

General Requirements for Building Design:

A. Scale

The applicant is proposing three single story buildings and two gas pump island canopies. The height of these structures ranges from 19.5' to 29.0' in height.

The buildings are oriented with front façades and prominent entry elements facing Chesterfield Airport Road. The use of black metal awnings, masonry bases with stone cap, and provision of windows brings a human scale to the buildings.

B. Design

The three buildings feature a cohesive design, utilizing the same light fixtures, neutral brick and EIFs colors, black metal awning elements, and window tints. Stone detailing around the entry elements is utilized on each of the building to provide architectural detailing and clean transitions between materials. However, the primary different in design is that the convenience store and car wash utilize a significant amount of adhered stone which is lacking from the retail building. The retail building has a split-faced CMU block base in lieu of the stacked adhered stone base of the other buildings. Carrying the stone over would provide a greater degree of design continuity and integration to the proposed development.

The applicant has treated the buildings as being "four sided," with the same degree and quality of materials being utilized on all four façades, including on the car wash building which is consistent with the Architectural Review Standards for the Chesterfield Valley.

C. Materials and Color

As previously mentioned, the convenience store and carwash buildings will be primarily comprised of brick and stone, EIFS, glass and aluminum storefronts, and black metal awnings and roof elements. The retail store also utilizes these materials with the exception of the stone and

metal roof components. The neutral color palette and significant use of stone and brick corresponds to recently constructed buildings in the surrounding area.

The car wash canopy features a metal batten seam roof that corresponds to the central roof element on the convenience store. Stone pedestals are proposed in order to match the car wash and convenience store.

The proposed gas pump island canopies are typical commercial metal structures in the corporate color of the gasoline brand that will be sold on the site. The larger eight pump island is designated for use by standard vehicles, and the smaller three pump island will be for over-sized vehicles.

The Dumpster enclosures are proposed to be constructed of the same brick utilized throughout the site.

D. Landscape Design and Screening

The request includes landscaping required by the City of Chesterfield Tree Preservation and Landscape Requirements. Accordingly, trees will be planted throughout the parking area in addition to the provision of street trees along all three site frontages. Smaller landscape beds containing shrubs and perennials are located throughout the site. Landscape beds containing annual seasonal plantings are proposed around the monument signs and entrances. The dumpster enclosures are screened on three sides by plantings.

Several bio-retention areas are proposed on the site; these rain gardens will be planted with native plantings. These rain gardens will be designed to MSD standards and will help capture storm water runoff from the site.

Although not shown in the architectural rendering, an ATM is proposed in a parking island containing a strip of shrubs. Additionally, four vacuum stations are shown within a parking block along the Chesterfield Airport Road frontage. Given the visibility of these items from Chesterfield Airport Road, care should be given to provide a maximum amount of screening via the adjacent landscape buffer. Landscape buffers must contain a combination of deciduous, evergreen trees, ornamental trees and shrubs. Areas of the buffer that lack dense landscaping will be identified by Staff and additional augmentation will be requested.

Electrical units on the rear of the buildings will be screened by the adjacent landscape buffer along old Olive Street Road. However, in order to ensure that this screening is adequate, taller and denser plantings will be required by Staff.

The roof-mounted mechanical units will be screened with metal panels painted to match the exterior building colors. Given the sizeable portions of the units that extend beyond the parapet, a sight-line study to determine visibility of the metal screens may be necessary. Staff would appreciate specific input on this particular item from the ARB.

E. Signage

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

F. Lighting

The lighting plan proposes the typical fully shielded, full cut-off pole mounted parking lot light fixtures and building entry wall mounted light fixtures. Additionally, typical canopy light fixtures are proposed on each of the pump island canopies. Each of these fixtures meets City code requirements.

DEPARTMENTAL INPUT

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

MOTION

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

- 1) "I move to forward the Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for The Wedge, McGrath Plaza (Energy Express), as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for The Wedge, McGrath Plaza (Energy Express), to the Planning Commission with a recommendation for approval with the following conditions..."

Attachments

1. Architectural Review Packet Submittal



ARCHITECTURAL REVIEW BOARD Project Statistics and Checklist

Date of	First Comment Letter Received from the City of Chesterfield
	tle: The Wedge (Mc Grath Plaza) Energy Express Location: 18382 Chesterfield Airport Rd.
Develope	Steve Madras (owner/Dev r: Archimages- Greg Garner Engineer: Doug Tiemann
	C-Store ±7,240 s.f. Car Wash ±3,000 s.f. Retail Building ±10,000 s.f. Total Square Footage:Building Height:
Size of sit	te (in acres): ±5.26 Acres Total Square Footage: Building Height:
Proposed	Usage: Retail, C-store, Fuel and Carwash
Exterior B	Building Materials: Brick, Cultured Stone, EIFS, Aluminum Storefront & Glazing, Metal Fuel Canopy
Roof Mate	erial & Design: Batten Seam Metal Roof Panels @ Mansard, EPDM or TPO (White) @ Low Slope Roofs
	Dumpster Enclosure (Brick & Cast Stone) RTU Screen (Thermo formed High Material & Design: Impact ABS Panels
Description	on of art or architecturally significant features (if any):
·	
ADDITION	IAL DDO JECT INCODMATION.
ADDITION	IAL PROJECT INFORMATION:
Checklist:	Items to be provided in an 11" x 17" format
\mathbf{M}	Color Site Plan with contours, site location map, and identification of adjacent uses.
	Color elevations for all building faces.
Δ	Color rendering or model reflecting proposed topography.
र्छ ।	Photos reflecting all views of adjacent uses and sites.
<u> </u>	Details of screening, retaining walls, etc.
	Section plans highlighting any building off-sets, etc. (as applicable)
	architect's Statement of Design which clearly identifies how each section in the Standards has been addressed and the intent of the project.
☑ I	Landscape Plan.
	Lighting cut sheets for any proposed building lighting fixtures. (as applicable)
	Large exterior material samples. (to be brought to the ARB meeting)
	Any other exhibits which would aid understanding of the design proposal. (as applicable)
,	Pdf files of each document required.



Architectural Review Board

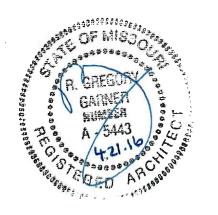
Submittal Package

[12 May 2016]

The Wedge (Mc Grath Plaza) Energy Express















Project Description

The Energy Express project is located at the intersection of Olive Street Road and Chesterfield Airport Road in Chesterfield, Missouri. Old Olive Street Road is located along the back side of the property. The site is comprised of approximately 5.26 acres. The proposed project includes the construction of three new buildings, including a 7,420 s.f. - 29'-0" high C-Store, a 3,000 s.f. - 21'-8" high Car-wash, and a 10,000+/- s.f. - 23'-6" high Retail lease space. There will also be a 19'-6" high canopy over the automobile fuel pump island and a 21'-0" high canopy over a separate commercial fuel pump island.

To address concerns of the adjoining airport, the tallest building is 29°-0" high, well under the height of the existing trees adjacent to the property and multi-story hotel across the street.

The site is relatively flat with only a one to three foot rise and fall across the property to achieve proper site drainage.

Site Relationship

The Scale and Fenestration of the proposed structures are compatible with neighboring use groups and surrounding buildings. The buildings are oriented with the most articulate facades and public accessible portions of the buildings addressing the Chesterfield Airport Road. As designed, this project does not impair or interfere with any surrounding properties or developments.

Parking for business patrons is provided adjacent to the public buildings. Parking areas will be required to provide landscape islands and trees as required by the Tree Preservation and Landscape Manual requirements. Sidewalks provided at these parking areas delineate and separate the pedestrian and vehicular traffic, and in no way does this design impair or interfere with any surrounding properties or developments.

The orientation of the building was derived by several influencing factors, including FAA sightline criteria, grades of transitioning ramps due to newly established flood plain elevation datums, and aircraft clearance recommendations.

Circulation System and Access

Bicycle circulation is not addressed.

The Amended Site Development Plan exceeds the minimum 35% open space requirements and parking and loading spaces for the proposed uses.

The floor area ratio (FAR) for the site is 0.15 (including pump canopy) which is below the required maximum of 0.55.

Sidewalks are provided along the Chesterfield Airport Road and relocated Olive Street Road and internal sidewalks are provided connecting proposed structures to allow for safe pedestrian access to each building within the site.

A 30-feet wide landscape buffer, parking and building setback is provided along the entire portion of Chesterfield Airport Road and relocated Olive Street Road. A 20 foot wide parking setback is provided along the dead end portion Old Olive Street Road along the southern boundary.

Landscape islands are shown in parking areas and will be provided as required by the Tree Preservation and Landscape Manual requirements. Bio-retention areas will also be located in landscaped island where possible and in green space areas at the east and west edges of the property.

The proposed hours of operation will be the same as those of the businesses on the surrounding properties, namely, Comfort Inn to the northeast, and the Gas Station/Outlet Mall to the west, which contain no limitation on the hours of operation. This is consistent with existing uses and there is no residentially zoned property adjacent to or in the vicinity of the site.

Topography

Due to the adjacent airport and FAA requirements pertaining to minimizing obstructions of sight lines. The flat nature of this site and the low heights of the building and landscaping, has not caused any sightline issues.

Retaining Wall

Because of the flatness of the site, retaining walls are not required.







General Requirements Addressing Building Design

A. Building Scale:

Building height is consistent with adjacent and neighboring properties.

B. Design:

The scale of this project is appropriate and consistent with the adjacent buildings and surrounding area. The material finishes and colors selected for this project reflect those used on the adjacent area buildings uniting the new building with the existing context. All exposed mechanical rooftop units will be screened with panels matching the theme of the building colors.

C. Colors:

- All proposed buildings have colors that are considered natural earth tones.
- The lower portion of all the buildings are masonry veneer products consisting of burgundy colored brick, light tan colored splitfaced block, light tan colored cast stone and different earth tone colored stones.
- Aluminum store front will be black.
- Glazing color will be a tinted grey.
- Exterior Insulation Finish System (E.I.F.S.) are light tan colors of Almond and Birch
- Metal roof and Awnings will be matte black.

D. Landscape design and screening:

- All new landscaping will compliment the site. FAA regulations restricts certain types of plants to be incorporated into the design due to height limitations.
- Building landscape buffers are introduced in limited areas.
- Parking landscaping utilized per city requirements.
- Masonry dumpster enclosure screen wall has brick veneer to minimize visual acuity.
- Roof top units screened by metal panels matching proposed building exterior wall colors.

E. Signage:

Wall mounted Signage will be located on the North exterior wall and potentially the West wall. All signage will be designed and approved under a separate review process.

F. Lighting:

- New wall pack mounted lighting will be incorporated in the design and be located on all exterior walls of the building for safety as well as for site lighting. -Refer to site lighting plans.
- There is no up-lighting permitted.

Specific Requirements for the Chesterfield Valley:

Facades:

All facades have been designed to an equal level of detail and quality of the nearest adjacent structure based upon functionality.

Storage:

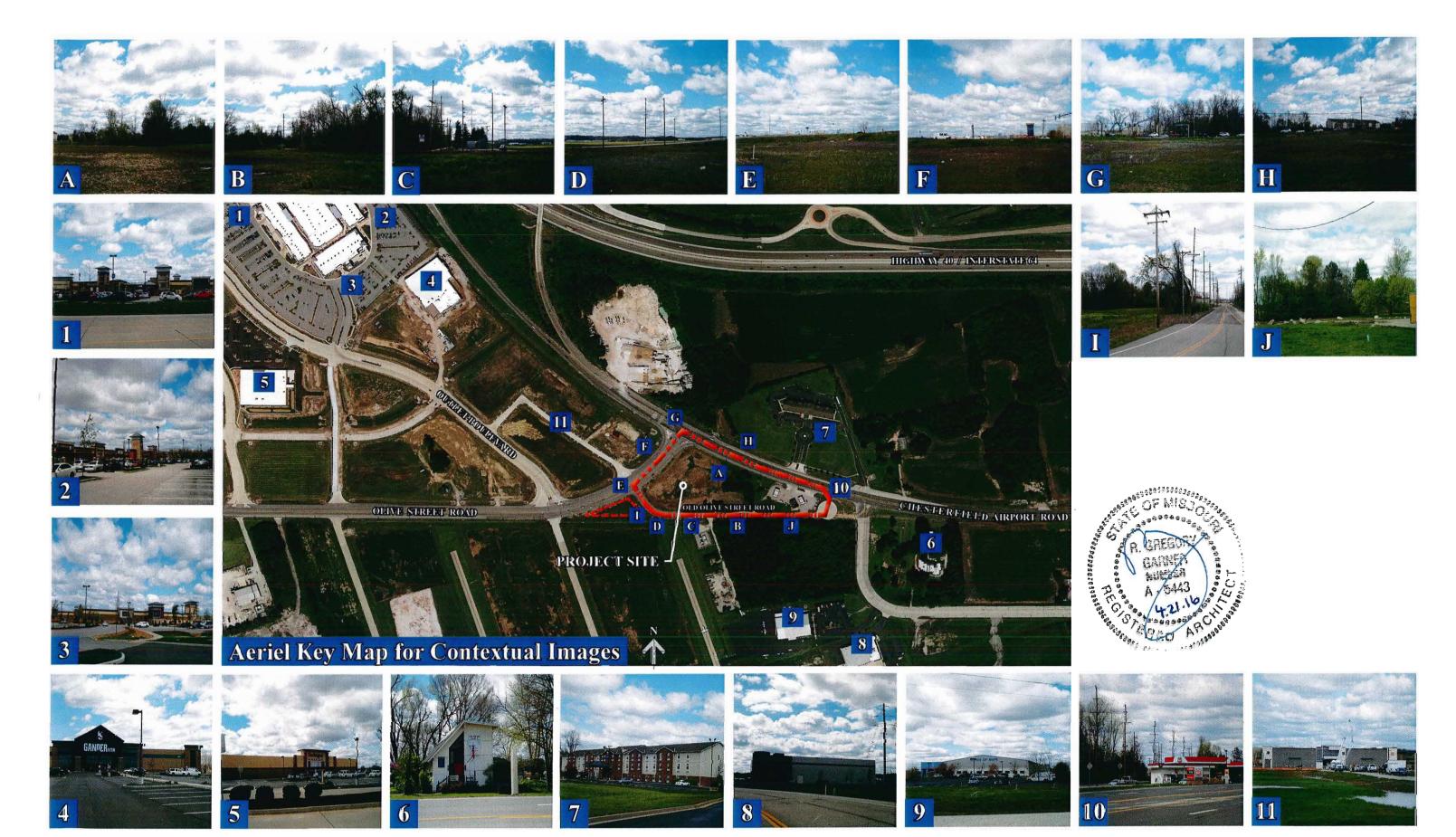
Not Applicable.

Utilities:

New utility services are underground.

Parking:

Property not adjacent or along I-64 corridor.







Energy Marketing 2nd Amended Site Development Plan A tract of land being Lot 2 and Outlot A of McGrath Plaza, part of Lot 6 of the Subdivision of R. H. Stevens Farm and part of U. S. Survey 102, Township 45 North - Range 3 East,

St. Louis County, Missouri



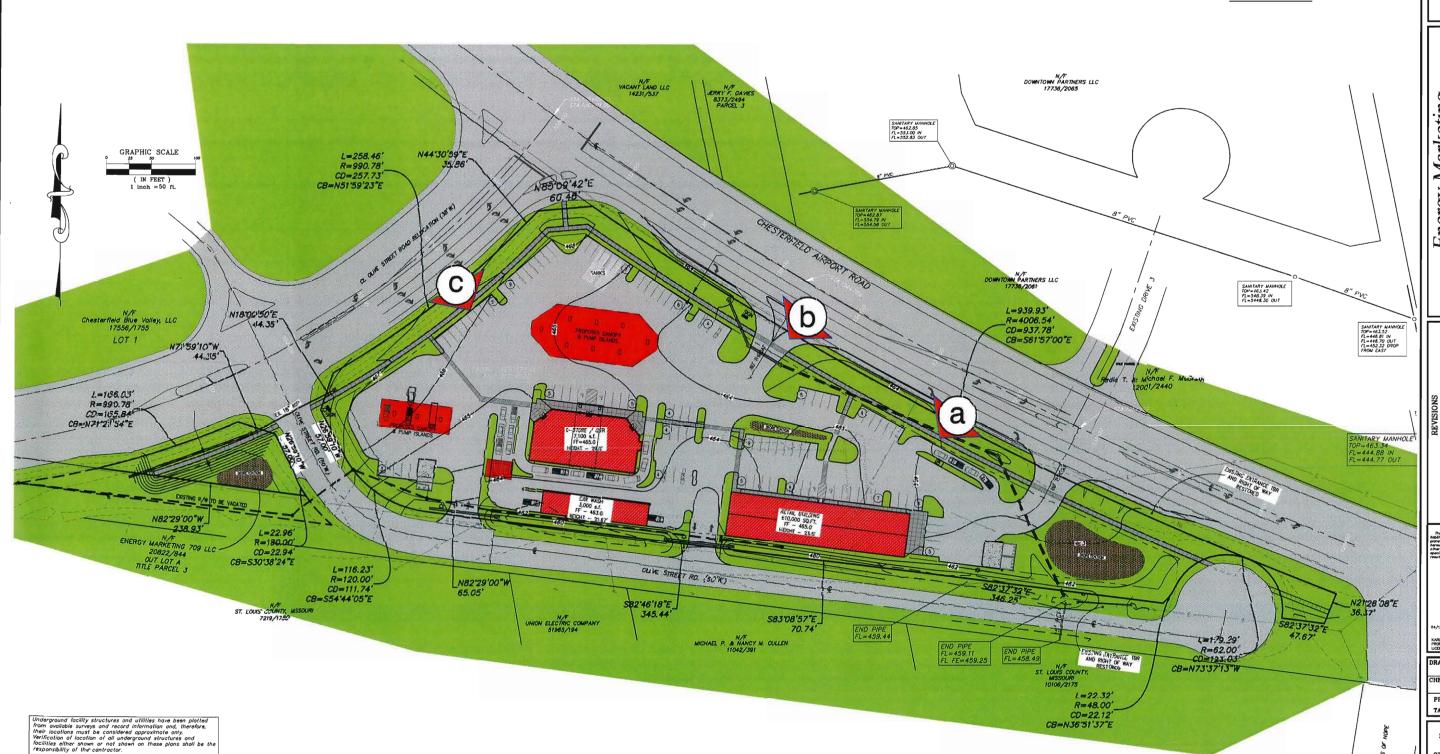
LOCATION MAP

LEGEND

WATER VALVE

WATER METER

SEWER CLEANOUT ELECTRIC BOX BOLLARD



(35 SILVER IN(

PICKETT, RAY (

Energy Marketing

A tract of land being Lot 2 and Outlot A of McGrath Plaza, part of Lot 6 of the Subdivision of R. H. Stevens Farm and part of U. S. Survey 102, Township 45 North - Range 3 East, St. Louis County, Missoun

2130 Kienlen Avenue St. Louis, MO 63121-55 314-383-3700

DRAWN	DATE
DWD	04/18/16
CHECKED	DATE
DST	04/18/16
PROJECT # 090	156.EMKT.00R
TASK # 1 FU	ELD BOOK 1287

OF

































CSTORE - FRONT

LEGEND

EX1	Batten Seam Panel Roof System (Color:
	Matte Black). 24 Gauge Smooth with
	Battens at 16" O.C.

Facebrick Veneer (Color: Haverford). 3 5/8"W x 2 1/4"H x 7 5/8"L.

Adhered Stone - Mountain Ledge Panels (Color: Pioneer).

EX4 Exterior Insulation Finish System (Color: Almond),

EX5 Exterior Insulation Finish System (Color: Birch).

EX6 Adhered Stone - Snapped Edge Wainscot Sill & Base, Ashlar Cut Heads & Keystone (Color: Buckskin).

Aluminum Storefront with 1" insulated glazing.
(Color: Black Anodized Aluminum).

EX8 Metal Awning. Metal color to match EX1.

Exterior/Commercial Grade Paint, Paint color to match EX4.

EX10 Split-Faced Concrete Masonry Units (Color: Light Tan).

EX11 Outdoor Wall Mount Lighting - ENC Entri Round Clean LED - Down Lighting.

EX12 1" Insulated tinted windows (Color: Grey)

EX13 Fuel Canopies Manufactured by Arning Companies, Inc.

EX14 Cast Stone. (Color - Light Tan)

EX15 Metal Coping (Color - Match adjacent finish color)

EX16 Plastic RTU Screen (Color - Light Tan)



CSTORE - DRIVE THRU SIDE



Archimages
architecture interiors



SCALE

EXTERIOR ELEVATIONS CSTORE 1599 | ENERGY EXPRESS | MAY 12, 2016



LEGEND

EX1	Batten Seam Panel Roof System (Color:
	Matte Black). 24 Gauge Smooth with
	Battens at 16" O.C.

Facebrick Veneer (Color: Haverford). 3 5/8"W x 2 1/4"H x 7 5/8"L.

Adhered Stone - Mountain Ledge Panels (Color: Pioneer).

Exterior Insulation Finish System (Color: Almond).

EX5 Exterior Insulation Finish System (Color: Birch).

EX6 Adhered Stone - Snapped Edge Wainscot Sill & Base, Ashlar Cut Heads & Keystone (Color: Buckskin).

Aluminum Storefront with 1" insulated glazing.
(Color: Black Anodized Aluminum).

EX8 Metal Awning. Metal color to match EX1.

EX9 Exterior/Commercial Grade Paint. Paint color to match EX4.

EX10 Split-Faced Concrete Masonry Units (Color: Light Tan).

EX11 Outdoor Wall Mount Lighting - ENC Entri Round Clean LED - Down Lighting.

EX12 1" Insulated tinted windows (Color: Grey)

Fuel Canopies Manufactured by Arning Companies, Inc.

EX14 Cast Stone. (Color - Light Tan)

EX15 Metal Coping (Color - Match adjacent finish color)

EX16 Plastic RTU Screen (Color - Light Tan)



CSTORE - SIDE



Archimages architecture interiors



SCALE

EXTERIOR ELEVATIONS CSTORE 1599 | ENERGY EXPRESS | MAY 12, 2016



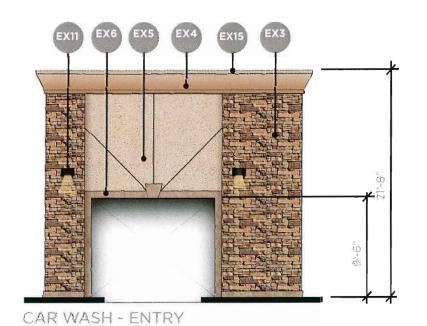
CAR WASH - FRONT SIDE

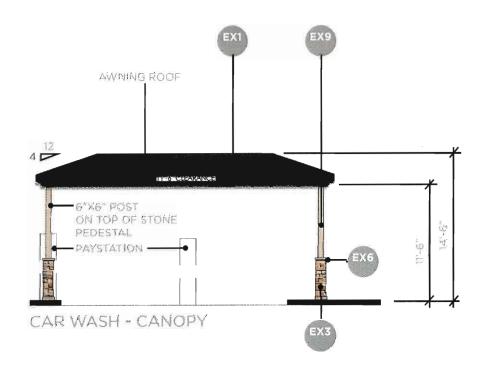
LEGEND

EX1	Batten Seam Panel Roof System (Color: Matte Black). 24 Gauge Smooth with
	Battens at 16" O.C.

- Facebrick Veneer (Color: Haverford). 3 5/8"W x 2 1/4"H x 7 5/8"L.
- Adhered Stone Mountain Ledge Panels (Color: Pioneer).
- EX4 Exterior Insulation Finish System (Color: Almond).
- EX5 Exterior Insulation Finish System (Color: Birch).
- EX6 Adhered Stone Snapped Edge Wainscot Silf & Base, Ashlar Cut Heads & Keystone (Color: Buckskin).
- EX7 Aluminum Storefront with 1" insulated glazing.
 (Color: Black Anodized Aluminum).
- EX8 Metal Awning. Metal color to match EX1.
- EX9 Exterior/Commercial Grade Paint. Paint color to match EX4.

- EX10 Split-Faced Concrete Masonry Units (Color: Light Tan).
- EX11 Outdoor Wall Mount Lighting ENC Entri Round Clean LED - Down Lighting.
- **EX12** 1" Insulated tinted windows (Color; Grey)
- **EX13** Fuel Canopies Manufactured by Arning Companies, Inc.
- EX14 Cast Stone. (Color Light Tan)
- EX15 Metal Coping (Color Match adjacent finish color)
- EX16 Plastic RTU Screen (Color Light Tan)



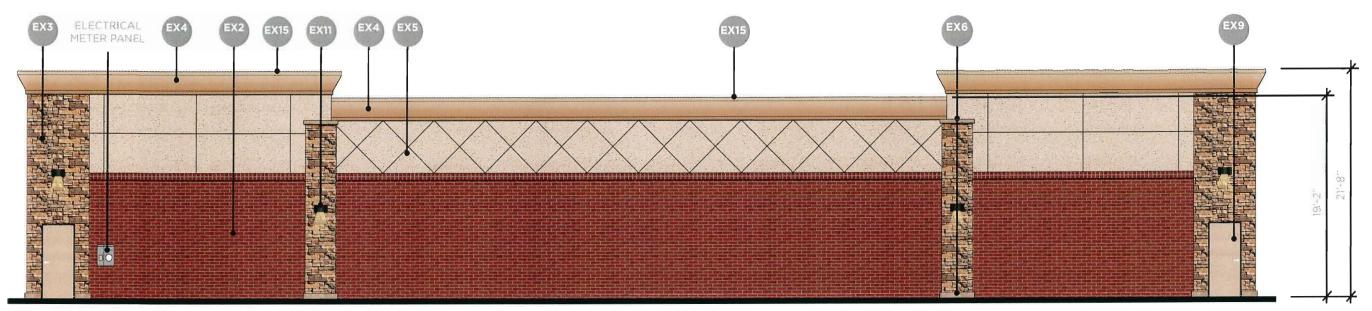


SCALE









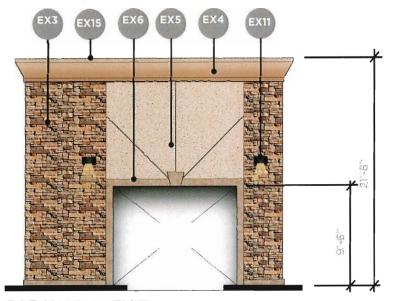
CAR WASH - BACK SIDE

LEGEND

EX1	Batten Seam Panel Roof System (Color: Matte Black). 24 Gauge Smooth with
	Battens at 16" O.C.

- Facebrick Veneer (Color: Haverford). 3 5/8"W x 2 1/4"H x 7 5/8"L.
- Adhered Stone Mountain Ledge Panels (Color: Pioneer).
- EX4 Exterior Insulation Finish System (Color; Almond).
- Exterior Insulation Finish System (Color: Birch).
- EX6 Adhered Stone Snapped Edge Wainscot Sill & Base, Ashlar Cut Heads & Keystone (Color: Buckskin).
- Aluminum Storefront with 1" insulated glazing.
 (Color: Black Anodized Aluminum).
- **EX8** Metal Awning. Metal color to match EX1.
- EX9 Exterior/Commercial Grade Paint, Paint color to match EX4,

- **EX10** Split-Faced Concrete Masonry Units (Color: Light Tan).
- **EX11** Outdoor Wall Mount Lighting ENC Entri Round Clean LED - Down Lighting.
- EX12 1" Insulated tinted windows (Color: Grey)
- **EX13** Fuel Canopies Manufactured by Arning Companies, Inc.
- EX14 Cast Stone. (Color Light Tan)
- EX15 Metal Coping (Color Match adjacent finish color)
- EX16 Plastic RTU Screen (Color Light Tan)



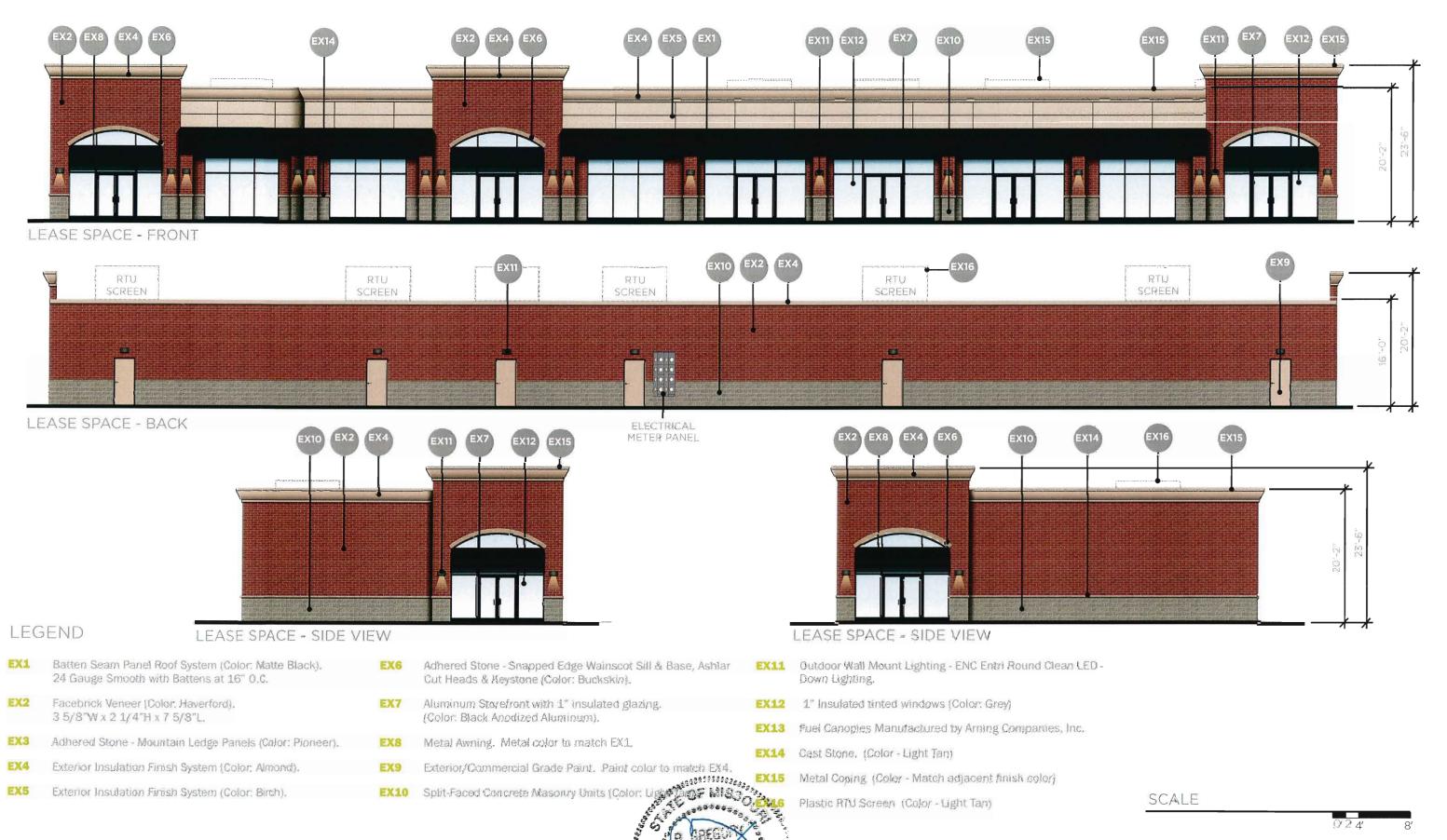
CAR WASH - EXIT

SCALE







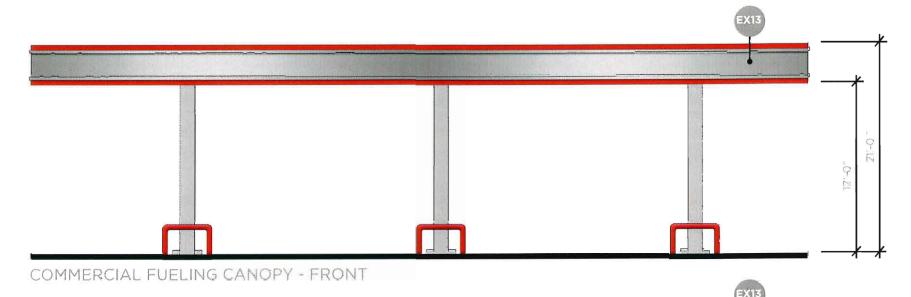


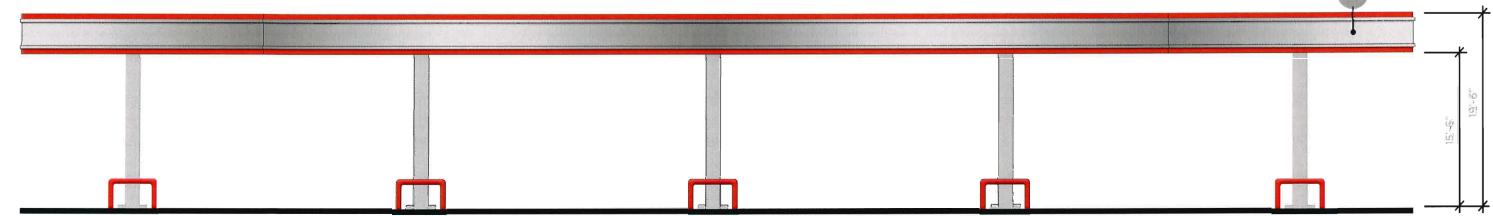
EXTERIOR ELEVATIONS LEASE SPACE 1599 | ENERGY EXPRESS | MAY 12, 2016









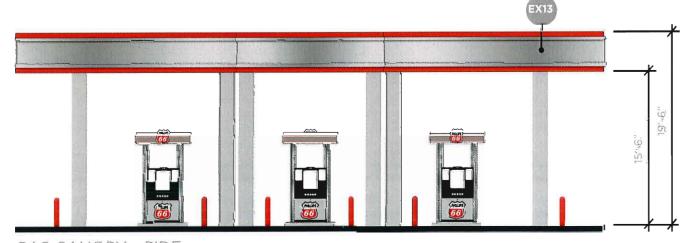


GAS CANOPY - FRONT

Metal Awning. Metal color to match EX1.

LEGEND

EX1	Batten Seam Panel Roof System (Color: Matte Black). 24 Gauge Smooth with Battens at 16° O.C.	EX9	Exterior/Commercial Grade Paint. Paint color to match EX4.
EX2	Facebrick Veneer (Color: Haverford). 3 5/8"W x 2 1/4"H x 7 5/8"L.	EX10	Split-Faced Concrete Masonry Units (Color: Light Tan).
EX3	Adhered Stone - Mountain Ledge Panels (Color: Pioneer).	EX11	Outdoor Wall Mount Lighting - ENC Entri Round Clean LED - Down Lighting.
EX4	Exterior Insulation Finish System (Color: Almond).	EX12	1." Insulated tinted windows (Color: Grey)
EX5 EX6	Exterior Insulation Finish System (Color: Birch). Adhered Stone - Snapped Edge Wainscot Sill	EX13	Fuel Canopies Manufactured by Arning Companies, Inc.
	& Base, Ashlar Cut Heads & Keystone (Color: Buckskin).	EX14	Cast Stone. (Color - Light Tan)
EX7	Aluminum Stoyafenet with 1" inculated staying	EX15	Metal Coping. (Color - Match adjacent finish cold.
EAI	Aluminum Storefront with 1" insulated glazing. (Color: Black Anodized Aluminum).	EX16	Plastic RTU Screen (Color - Light Tan)



SCALE

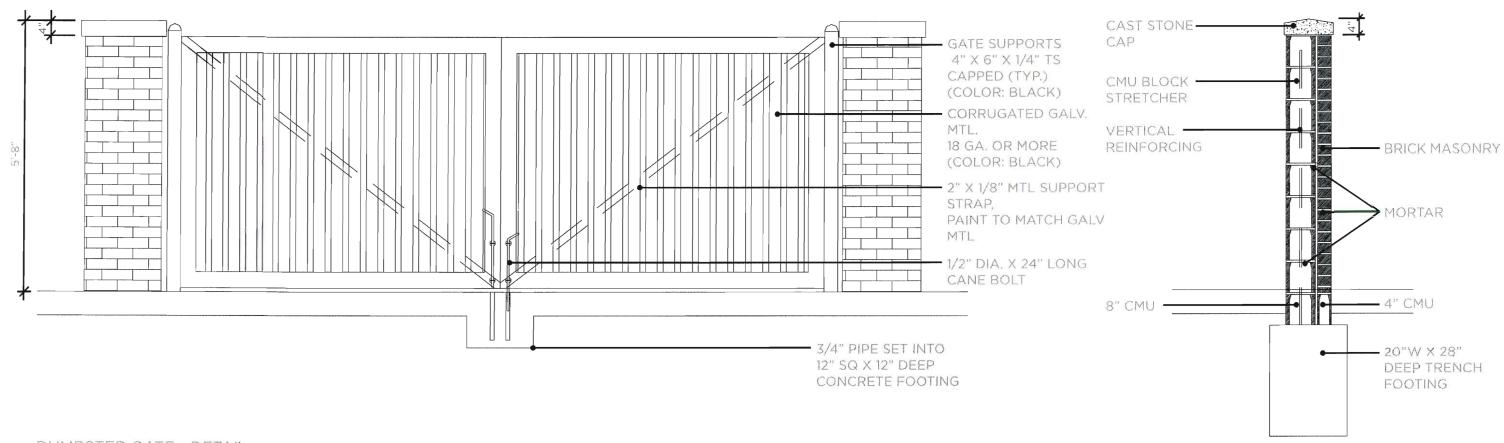
GAS CANOPY - SIDE



Archimages
architecture interiors



EXTERIOR ELEVATIONS FUEL CANOPIES 1599 | ENERGY EXPRESS | MAY 12, 2016



AND 241 OF THE RESERVE OF THE RESERV

DUMPSTER GATE - DETAIL

LEGEND

- Batten Seam Panel Roof System (Color: Matte Black). 24 Gauge Smooth with Battens at 16" O.C.
- Facebrick Veneer (Color: Haverford). 3.5/8"W x 2.1/4"H x 7.5/8"L.
- EX3 Adhered Stone Mountain Ledge Panels (Color: Pioneer).
- EX4 Exterior Insulation Finish System (Color: Almond).
- Exterior Insulation Finish System (Color: Birch).
- EX6 Adhered Stone Snapped Edge Wainscot Sill & Base, Ashlar Cut Heads & Keystone (Color: Buckskin).
- Aluminum Storefront with 1" insulated glazing.
 (Color: Black Anodized Aluminum).

- X8 Metal Awning. Metal color to match EX1.
- EX9 Exterior/Commercial Grade Paint.
 Paint color to match EX4.
- EX10 Split-Faced Concrete Masonry Units (Color: Light Tan).
- EX11 Outdoor Wall Mount Lighting -ENC Entri Round Clean LED -Down Lighting.
- **EX12** 1" Insulated tinted windows (Color: Grey)
- EX13 Fuel Canopies Manufactured by Arning Companies, Inc.
- EX14 Cast Stone Cap. (Color Light Tan)
- EX15 Metal Coping. (Color Match adjacent finsh color)
- EX16 Plastic RTU Screen (Color Light Tan)

DUMPSTER - SIDE 30X15 DUMPSTER - FRONT 30X15 EX2 EX14 DUMPSTER - FRONT 30X15 DUMPSTER - FRONT 18X15

architecture interiors

Archimages

DUMPSTER WALL - DETAIL 11 3/4"THICK

SCALE





PLANNING AND DEVELOPMENT SERVICES DIVISION

SCRIPT FOR A SITE DEVELOPMENT PLAN

PROPERTY DESCRIPTION

A tract of land being Lot 2 of McGrath Plaza, a subdivision according to the plat thereof recorded in Plat Book 325, Pages 11 and 12 of the St. Louis County Records, part of Lot 6 of the Subdivision of R. H. Stevens Form according to the plat thereof recorded in Plat Book 7, Page 37 of the St. Louis County records and part of U. S. Survey 102, Township 45 North — Range 3 East, St. Louis County, Missouri and being more particularly described as:

Beginning at the most Northern corner of said Lot 2 of McGrath Plaza, said point being on the South right-of-way line of Chesterfield Airport Road; thence Eastwardly along said South right-of-way line of Chesterfield Airport Road along a curve to the left having a radius of 4006.54 feet an arc distance of 939.93 feet, a chord which bears S 61° 57' 00" E a chord distance of 937.78 feet to the most Eastern comer of property of Redia T. and Michoel F. McGrath, as described in the deed recorded in Book 12001, Page 2440 of the St. Louis County Records; thence S 21° 26' 08" W a Book 12001, Page 2440 or the St. Louis county necuras; mence 3 £1 20 vo in udstance of 36.37 feet and N 82° 37′ 32″ W a distance of 47.67 feet along the boundary line of said McGrath property to the Southeast corner of property conveyed to St. Louis County, Missouri as described in the deed recorded in Book 10106, Page 2175 of the St. Louis County Records; thence along sold St. Louis County, Missouri boundary, along a curve to the left having a radius of 62.00 feet an arc length of 179.29 feet, a chord which bears N 73° 37′ 13″ W a chord distance of 123.03 feet and along a curve to the right having a radius of 48.00 leet on arc distance of 22.32 feet, a chard which bears S 36° 51′ 37° W a chard distance of 22.12 feet to the South line of the oforesaid McGrath property; thence N 82° 37° 32° W a distance of 346.25 feet to the Southeast corner of property of Redio T. and Michael F. McGrath, as described in the deed recorded in Book 11496, Page 594 of the St. Louis County Records; thence N 83° 08′ 57° W a distance of 70.74 feet and N 82° 46' 18" W o distance of 345.44 feet along the South line of sold McGrath property to the Southeast corner of the aforesoid Lot 2 of McGrath Plazo; thence along the boundary lines of said Lot 2 the following courses and distances: N 82' 29' 00" W a distance of 65.05 feet, along a curve to the right hoving a radius of 120.00 feet an arc distance of 116.23 feet, a chord which bears N 54* 44* 05" W a chord distance of 111,74 feet, N 26' 59' 10" W a distance of 57.00 feet, N 18' 00' 50" E a distance of 44.35 feet, along a curve to the left having a radius of 990.78 feet an arc distance of 258.46 feet, a chard which bears N 51' 59' 23" E a chard distance of 257.73 feet, N 44' 30' 59" E a distance of 35.86 feet and N 85' 09' 42" E for a distance of 60.46 feet to the point of beginning and containing 219,558 square feet or 5.04 ocres more ar less.

PROPERTY DESCRIPTION OUT LOT A

A tract of land being Out Lot A of McCroth Plazo, a subdivision according to the plat thereof recorded in Plat Book 325, Pages 11 and 12 of the St. Lauls County Records, in U. S. Survey 102, Township 45 North — Range 3 East, St. Lauis County, Missouri and being more particularly described as:

Beginning at the most Western corner of sold Out Lot A of McGrath Plazo, sold point being on the North right-of-way line of Olive Street Road, 60 feet wide; thence along the boundary line of said Out Lat A the following courses and distances: along a curve to the left howing a radius of 990.78 feet an arc length of 166.03 feet, a cherd which bears N 71° 21° 54° E o chord distance of 165.84 feet, S 71° 59° 10° E o distance of 44.35 feet, S 26' 59' 10" E a distance of 57.00 feet, along a curve to the left hoving a radius of 180.00 feet an arc length of 22.96 feet, a chord which bears S 30' 38' 24" E a chord distance of 22.94 feet and N 82' 29' 00" W a distance of 238,93 feet to the point of beginning and containing 9,530 square feet or 0.22 acres more or less.

ENERGY MARKETING 709, LLC, the owner of the property shown on this plan for and in consideration of being granted approval of said plan to develop property under the provisions of Section 03-04.C, "PC" Planned Commercial District of City of Chesterfield Unified Development Code, cb., PC Financia Commercia District of City of Chesterlied Unified Development Code, do hereby agree and declare that said property from the date of recording this plan shall be developed only as shown thereon, unless said plan is amended by the City of Chesterfield, or volded or vacated by order of ardinance of the City of Chesterfield Council,

(Signati	ure)			
(Name	(yped)	Steven	J.	Madras

ST. LOUIS COUNTY GENERAL NOTES

All proposed improvements shall be constructed to St. Louis County Standards.

. No slopes within SL. Louis County right-of-way shall exceed 3 (horizontal) to 1

. Storm water shall be discharged at an adequate natural discharge point. Sinkholes

· A signed/sealed note shall be added to the Construction Plans indicating that the

unimproved existing sidewalk along the project frontage meets current St. Louis County ADA standards.

All grading and drainage shall be in conformance with St. Louis County and MSD Standards.

. All hydronts, power poles or other potential obstructions within the St. Louis County

Any entity that performs work on St. Louis County maintained property shall provide the County with a Certificate of insurance evidencing general liability coverage (badily in)ury and property damage) in the amounts specified as the limits of liability exity the State for public entities. Such certificate shall include St. Louis County as an additional insured and shall be provided prior to the issuance of any permit. Certificate shall provide for a 30 day policy concellation notice to St. Louis County. Upon request, the County will provide the specific amounts for both per person and ner occurrence limits.

Almae Noself AICP

City of Chesterfield, Missouri

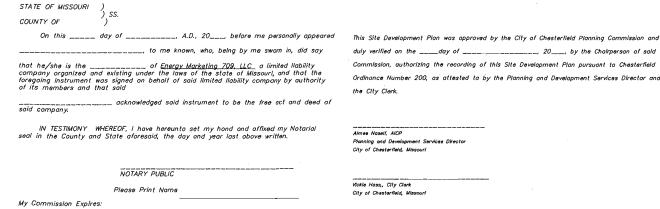
Vickie Hass, City Clerk

duly verified on the ____day of _____, 20___, by the Chairperson of sold

Commission, authorizing the recording of this Site Development Pian pursuant to Chesterfield

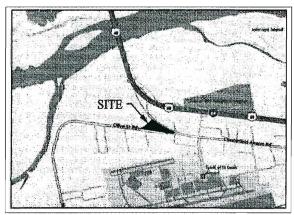
Ordinance Number 200, as attested to by the Planning and Development Services Director and

All proposed access to St. Louis County roads sholl meet minimum St. Louis County sight distance requirements. All aldeworks and associated accessibility improvements shall be constructed to St. Louis County ADA Standards.



Energy Marketing 2nd Amended Site Development Plan

A tract of land being Lot 2 and Outlot A of McGrath Plaza, part of Lot 6 of the Subdivision of R. H. Stevens Farm and part of U. S. Survey 102, Township 45 North - Range 3 East, St. Louis County, Missouri



LOCATION MAP

SHEET INDEX

COVER SHEET AND NOTES

2nd AMENDED SITE DEVELOPMENT PLAN

SLOPE CONG SLAB 9

6"#x 6"-0" LONG CONC 18° ex 42° DEEP CONG. PIER AT EACH PIPE PO

LIGHTING PLAN

GENERAL NOTES

"PC", PLANNED COMMERCIAL 1. CURRENT ZONING:

2. PROPERTY INFO: PARCEL ID - 17W820246 18382 CHESTERFIELD AIRPORT ROAD

3. PROPERTY OWNER:

ENERGY MARKETING 709 LLC 2130 KIENLEN AVE. SAINT LOUIS, MO 63121-2942

4. AREA OF TRACT: 5.26 ACRES

5. PROPOSED USE: GAS STATION WITH OUICK SERVE RESTAURANT RETAIL SALES.

6. THIS TRACT IS IN OR SERVED BY:

MONARCH FIRE DISTRICT MSD MISSOURI AMERICAN WATER CENTURYTEL AMEREN UE LACLEDE GAS COMPANY

7. REGULATIONS AND PERFORMANCE STANDARDS:

30' MIN. (CHESTERFIELD AIRPORT ROAD AND RELOCATED OLIVE STREET) 15' MIN. (OLIVE STREET ROAD) 35% MIN. 0.55 MAX.

OPEN SPACE:

8. ALL UTILITIES SHALL BE LOCATED UNDERGROUND.

BUILDING AND SITE SHALL BE IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT REGULATIONS.

10. NO SLOPE SHALL BE GREATER THAN 3:1. ALL DISTURBED AREAS SHALL BE

11. SIGNAGE SHALL BE IN ACCORDANCE WITH CITY OF CHESTERFIELD CODE AND APPROVED SEPARATELY.

12. LIGHTING SHALL BE IN ACCORDANCE WITH CITY OF CHESTERFIELD CODE.

13. ALL CURBING SHALL BE 6" CONCRETE.

PARKING CALCULATION

ROPOSED_USE:	GAS STATION AND CONVENIENCE STORE
ARKING REQUIREMENT:	FOUR AND ONE HALF (4.5) SPACES FOR EVERY ONE THOUSAND (1,000) SQUARE FEET
ARKING REQUIRED: ARKING PROVIDED:	4,250 SQ FT • 4.5/1000 = 19 SPACES 19 SPACES
ROPOSED USE:	QUICK SERVE RESTAURANT
ARKING REQUIREMENT: THOUSAND	FIFTEEN (15) SPACES FOR EVERY ONE (1,000) SQUARE FEET
ARKING REQUIRED: ARKING PROVIDED:	2,850 SQ FT * 15/1000 = 43 SPACES 43 SPACES
ROPOSED USE:	CAR WASH
ARKING REQUIREMENT:	TWO (2) SPACES FOR EVERY THREE (3) EMPLOYEES
ARKING REQUIRED: ARKING PROVIDED:	3 EMPLOYEES * 2/3 = 2 SPACES 2 SPACES
ROPOSED USE:	RETAIL STORES
ARKING REQUIREMENT:	FOUR AND ONE HALF (4.5) SPACES FOR EVERY ONE THOUSAND (1,000) SQUARE FEET
ARKING REQUIRED: ARKING PROVIDED:	10,000 SQ FT * 4.5/1000 = 45 SPACES 45 SPACES
OTAL SPACES REQUIRED: OTAL SPACES PROVIDED:	109 SPACES 109 SPACES INCLUDING 4 ADA ACCESSIBLE

STATEMENT OF COMPLIANCE WITH THE GEOTECHNICAL REPORT

DUMPSTER ENCLOSURE PLAN

Cateway Ceotechnical, LLC and the undersigned engineer have not prepared these plans. The seal of the undersigned professional engineer has been affixed at teh request of the City of Chesterfield and is a professional opinion to indicate that the undersigned has reviewed the plans and that in his apinion the grading and improvements relative to slape construction as shown on the plans, as well as the foundations, are compatible with the soil and geologic conditions at the site as described in the geological report for the development dated March 2016.

Gateway Geotechnical, LLC and the undersigned assume no responsibility for services by others (pursuant to RSMO 327.411).

Construction means and methods for implementation of the grading plan shall be left to the developer/contractor. Observations of the developer/contractor's compilance with the applicable specifications shall be identified and verified in writing.

Gateway Geotechnical, LLC

T. Michael McMillen, PF, D.GE PE#- E-15825

IMPERVIOUS AREA

DUMPSTER ENCLOSURE SECTION

PAVEMENT:	118,835 sq.ft.
BUILDINGS:	20,100 sq.ft.
SIDEWALKS:	10,445 sq.ft.
TOTAL:	149,380 sq.ft.

PERVIOUS AREA

LAWN & ISLANDS: BIORETENTION AREAS:	72,420 7,288	
TOTAL:	79,708	

LANDSCAPE BUFFER (54,521 SF)

INTERIOR LANDSCAPE AREA (35,312 SF)

OPEN SPACE REQUIREMENT

FLOOR AREA RATIO (FAR)

	USE	SQ. FT.
1	CONVENIENCE STORE W/GAS	7,100
2	CANOPY	9,923
3	CAR WASH	3,000
4	RETAIL CENTER	10,000
5	TOTAL BUILDING AREA	30,023
6	TOTAL PROPERTY AREA	229,088
7	FLOOR AREA RATIO (FAR)	0.131
	MAXIMUM FAR ALLOWED	0.550

SILVER

Marketing
1.2 and Outlot A of McOrath Pla
division of R. H. Stevens Farm a
Township 45 North - Range 3 E

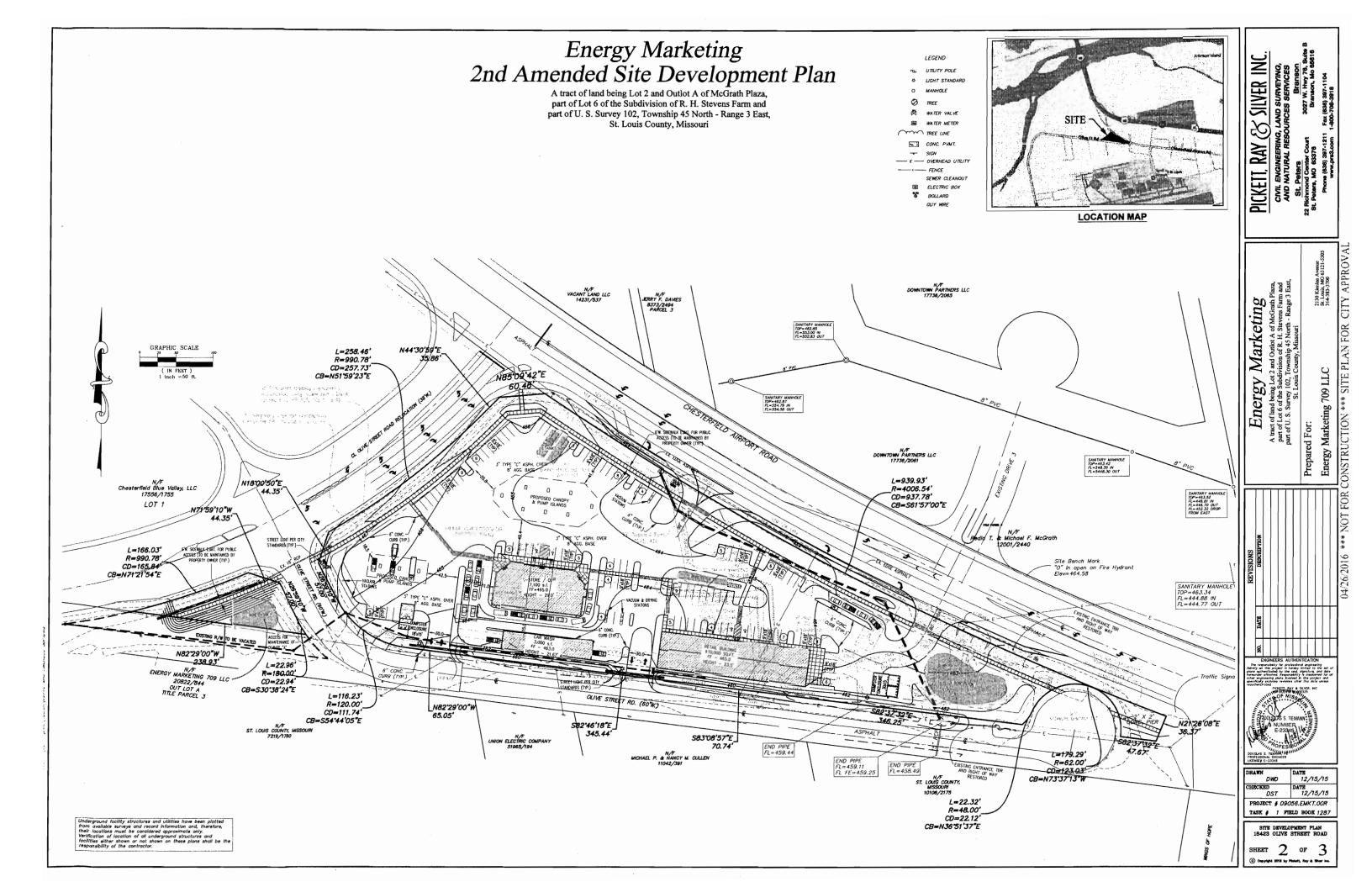
12 and Outlot A c livision of R. H. S Township 45 No S County, Missou

Energy

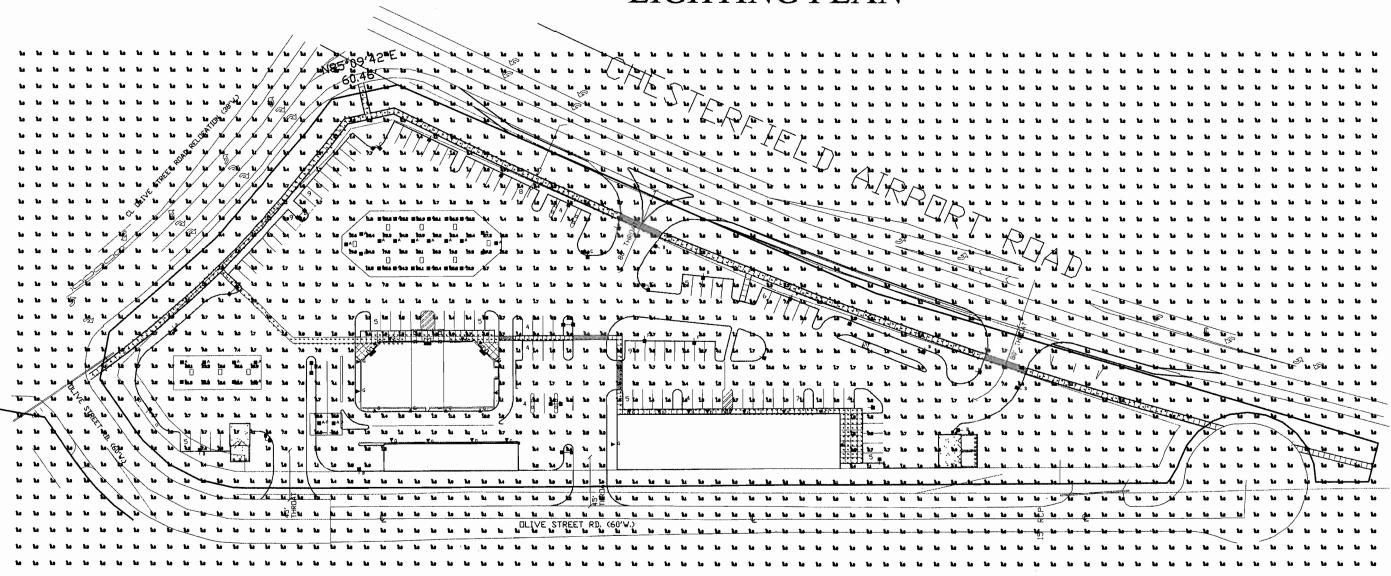
709 LLC Marketing ' Energy

DATE 12/15/15 OWD 12/15/15 DST PROJECT # 09056.EMKT.OOR TASK # 1 FIELD BOOK 1287

SHEET OF (1) Copyright 2016 by Plokets, Roy & Silver Inc



Energy Marketing LIGHTING PLAN



		<u> </u>						
Luminaire Sched	dule							
Symbol	Qty	Label	Arrangement	Description	LLF	Lumens/Lamp	Arr. Lum. Lumens	Arr. Watts
60.00. 05.40. 04.00.	34	A	SINGLE	CRUS-SC-LED-VLV-CV	1.000	N.A.	8842	78.7
	17	В	SINGLE	XPT3-FT-LED-128-350-CV-UE-HSS-SINGLE-18'PDLE+2'BASE	1.000	N.A.	8067	144
<u> </u>	4	C	2 @ 90 DEGREES	XPT3-FT-LED-128-350-CV-UE-HSS-D90-18/PDLE+2/BASE	1.000	N.A.	16134	288
	5	B	D180	XPT3-FT-LED-128-350-CV-UE-HSS-D180-18'PDLE+2'BASE	1.000	N.A.	16134	288
19	1	E	D180	XPT3-FT-LED-128-350-CW-UE-D180-18'PDLE+2'BASE	1.000	N.A.	26672	286
	4	F	SINGLE	XPT3-FT-LED-128-350-CV-UE-SINGLE-18/PDLE+2/BASE	1.000	N.A.	13336	143
-4	25	G	SINGLE	XPVS3-WV-LED-28-350-CW-UE	1.000	N.A.	3161	34

Label	CalcType	Units	AVD	Max	Min	Avg/Min	Max/Min
ALL CALC POINTS	Illuminance	Fc	1.16	27.5	0.0	N.A.	N.A.
INTERIOR VALKVAYS	Illuminance	Fc	4.68	12.2	0.2	23.40	61.00
PERIMETER WALKWAYS	Illuminance	Fc	0.66	6.9	0.0	N.A.	N.A.
CAR WASH PAY CANDPY SUHMARY	Illuminance	Fc	16.38	21.1	12.6	1.30	1.67
DIESEL CANDPY SUMMARY	Illuminance	Fc	20.38	23,3	12.6	1.62	1.85
GAS CANDRY SUMMARY	Illuminance	Fc	21.42	27.5	8.4	2.55	3.27
NORTH ENTRANCE/EXIT SUMMARY	Illuminance	Fc	3.24	8.4	0.2	16.20	42.00
PARKING AREA SUMMARY	Illuminance	Fc	3.64	16.8	0.1	36.40	168.00
SOUTH ENTRANCE/EXIT SUMMARY	Illuminance	Fc	2.50	4.3	0.9	2.78	4.78

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions.

This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with The Illuminating Engineering Society (ES) approved nethods. Actual performance of any nanufacturer's luminares say vary day to changes in electrical voltage, tolerance in languil-EIPs and other variable field conditions. Calculations do not include obstructions such as buildings, nurbs, landscapina, or any other anotherctural elements unless noted.









XPTS3 LED Area Light



XPWS3









LIGHTING PROPOSAL LO-1266

HESTERFIELD,MI MLS DATES-E4-15 DEVG/1

ude obstructions such as buildings, Risments unless noted



durable die-cast, aluminum construction, providing a reliable

LEDS - Features an array of select, mid-power, high brightness, high efficiency LED chips; 5000K color temperature, 70 CRI (normal).

OPTICAL URIT - Features an ultra-slim //8" profile dis-cast housing, with a flat glass lons.
Until is water-resistant, sealed to an IP67 rating, integral designed heat sink does not trap
dirt and grime, ensuring cool running performance over the lite of the focture.

PRESSURE STABILIZING VENT - Luminaire assembly incorporates a pressure stabilizing vent breather to prevent soal failigue and failigre.

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

DRIVER - State-of-the-art driver technology superior energy efficiency and optimizin light output. Driver components are fully encessed in porting for moisture neistance, Complice with IEC and FCC standards. 0-10 V dimming supplied standard with all drive currents. DRIVER HOUSING - Dis-cast aluminum, wet location rated driver/electrical enclosure is elevated above carpoy deck to prevent vater entry, provide easy "prock-out" connection of primary witing and contributes to attaining the lowest operating temperatures available. Seals to optical housing via one-piece molded allicome pesket.

available. Seath to optical housing via one-pleca moded stictions gasket.

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

ELECTRICAL - Universal voltage power supply, 170-77°VAC, 50°60 (2 input.) Orivers feature two-steps surpe protection (including separate surpe protection built into electronic directly mean (EEE 50°C ALT-2002, Science) 1. Location Category mean (EEE 50°C ALT-2002, Science) 1. Location Category powers coal process, 0. Location protection protection protection protection protection process. The protection without crucking protection process, 0. Location protection, 0. Location process, 0. Lo SHIPPING WEIGHT - 27 pounds (single pack), 48 pounds (double pack)

Consult Factory

Class 1, Division 2 - Standard on SS & LW. 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.

LISTING - UL and ETL listed to UL 1598, UL 8750 and other U.S. and international safety standards. Suitable for wet locations. PHOTOMETRICS - Please visit our web site at www.bsi-industries.com for detailed

RÓHS PET CE C O DE



FUEL CANOPY LIGHTS

LED PATRIOT® WALL SCONCE (XPWS3) US paleon TERBAGO, DODEASS and CAM ETROTOT & ETROTOT and MRT paleon 29031 and USAN ADMITS-ANA AUS 2006317668 and US & Mrt., paleon populing



						temperature of the installation location. See LSI web sits for specific guidance.
	ITING FAC		d reveran	lathra renda	al land	LED8 - Available with 28 or 48 select high-brightness LEDs in Cool White (5000K) or Neutral White (4000K) color temperature, 70 CRI,
data and r	saults in ac Hahi ingloc	eansbroi	rith its Light	ting Fasts P	rogram.	OPTICS/DISTRIBUTIONS - Ultra-high efficiency reflectors provide three distributions. Choose from Wide Throw (WT), Forward Throw (FT) or Wall Wash (WW).
LIGHT 0	UTPUT - X					HOUSING - One-piece dis-cast atuminum housing is smoothly contoured rectangular shape. Mounting hardware is staintless steel or dectro-ninc pitated stoel, Housing and optical unit are seased with extruded siscene gasket supply conductors with motide EPDM bushing.
		Dintri	button/Luma	ess (Nomise))	* * * * * * * * * * * * * * * * * * * *
Millens	# F of LEDs	Type FT	Type WT	Type WW	Watts	OPTICAL UNIT - Clear tempered optical-grade flat glass lens sealed to the aluminum optic
. 1	28	3100	3000	3200	34	housing creates an IP65 rated unit. Pressure stabilizing breather allows super-tight
결국	48	5100	6100	5200	55	protection while preventing cycling from building up internal pressures and vacuums that
3 1	28	3700	3600	3800	44	can stress outcal unit seals.
3 3	48	6200	6100	6300	72	WALL MOUNTING - Calvanized-steel universal walk mounting plate easily mounts directly
4 1	28	2900	2900	3100	34	to 4" octagonal or square junction box, EPDM gasket is supplied to be installed between
4 1	48	4900	4800	4900	55	mounting plate and junction box, sealing junction box from entrance of water, Universal
8 3	29	3500	3500	3700	- 44	
1 3 3	48	5800	5700	5800	72	plate permits fixture to be mounted in uplighting (indoor only) or downlighting position.
LED China I	ne from wells	ndsted there	form rathers are			POLE MOUNTING - XPMA (for square) or XPMAR (for round) allows mounting to poles in

Also available in traditional light source

pitis permits ficture to be mounted in ugliphiting (indoor only) or deverlighting position.

POLE MOUNTHING - XPMA (for squary) or XPMAR (for rounn) allow mountering to poles in study and 10 file configurations. Use with 3" reduced drilling pattern.

ELECTRICAL - Two-stope surpe protection final using separate surpe protection half into electronic directly media [126 EVER] 2-2002, Location Calegory C. Available with universal voltage power surpey 1/20-27/No. [50-601th input) or 347-480/No. PORTER- Available in 350-nf and 455-nd Arthur users are fully programmed). Components are fully encased in potting material for IPSS moleture resistance, Driver complex with ICC and IFCs Standardish, Driver can be easily accessed. Bits option operation in 0°C to 60°C arrivation temporature and CWRB operation are available. Bits option operation in 0°C to 60°C arrivation temporature. When primary Arc power failure occurs, both options operate 10 LEDs for minimum of 90 minutes. OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F) Also product, or selected strategies of this product, meet the standards Balad Selow. Feeting consolid factory for poor specific Poundards Balad Selow. Feeting consolid factory for poor specific Poundards Balad Selow. Feeting consolid factory for poor specific Poundards for the Durading finish withstands andrems weather changes without coading or poeling. WARRANTY - LSI LED fectures carry a limited 5-year warranty.

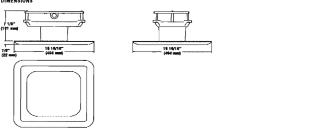


SHIPPING WEIGHT (in carton) - 30 lbs./13.6Kg

LED CANOPY LIGHT - LEGACY™ (CRUS)

TYPICAL O	RDER EXAMPLE:	CRUS SC	LED HO	50 UE WH	<u>T</u>		
Preffx	Distribution ¹	Light Source	Orine Correct	Color Temperature	Input Voltage	Flateh	Options
CHUS	SC - Standard Symmetric AC - Aymmetric	rep	VLW - Yery Low Watt LW - Low Watt SS - Soper Sayer HO - High Output	50 - 5000K	UE - Universal Voltage (120-277V)	WHI - White BRZ - Blooke BLX - Block	None
			VHO - Very High Output		347 - 480V		

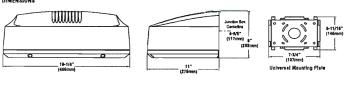
ACCESSORY ORDERING INFORMATION (Access Description	Order Head installed) Order Hermber	Description	Order Number
Reprofit Panels - EC / ECTA / SCF to CRU, for 18" Deck Panel	525945	XX - Hole Plugs and Sillicone (enough for 25 retroffts)*	1320540
Retroft Panels - EC"A / SCF to CRU. for 12' Duck Panel	530261	1- Consists of Q5) 7/8' hole plugs and (1) 10.3 oz (ube of RTV	1980610
Ret: of it 2x2 Cover Panel Blank (no holes)	357782		
Retroff RIC Cover Panel Blank (no holes)	354/02		

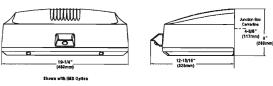


		Lun	DARP .	Wa	čta	u	W
		2C	AC	\$C	AC	\$C	AC
	YLW - Yery Low Watt	8842	-	79	-	112	-
2 "	CWF - Lowr West!	10871	8746	88	83	124	105
3 -	\$8 - Super Saver	13554	11518	114	111	119	104
_	HO - High Ostpot	18633	- 1	132	-	141	-
~	YHO - Yery High Output	22418	17262	159	157	141	110

P	Project Name	j Fixture Type	03/23/16
	Catalog #	- Automotive and a second and a	USI MADUSTRIFS PAC.

LUMINAIRE ORDERING INFORMATION TYPICAL ORDER EXAMPLE: XPWS3 FT LED 48 450 CW UE WHT BB ACCESSORY ORDER(NG INFORMATION® (Accessories are field installed) Description Order Hamber





-		
130	Project Hame ; Fixture Type	10/21/1
12	Catalog #	CSTREES INC.

BUILDING LIGHTS

LIGHT FIXTURE CUT SHEETS 1599 | ENERGY EXPRESS | MAY 12, 2016

LISTING - F.T. Ished to ANS/UL1998 (UR570 and other U.S., and intensational safety standards. Suitable for well locations in downlight position, Optional Class 1 Division 2 (groups A, B, C. 50) hazardosis colation rating is available (Select III, Option), For a list of the specific products in this sarkes that are D.C listed, please consult the LED Lightin section of our wheeliton of the Design Lightin webside as the www.designightin.

LED AREA LIGHTS - PATRIOT® (XPT3)



FIG	HT OUT	TPUT -	XPT3			
		1503	Type \$	rmens (Monti	nod) _ Type FT	(Herranal)
w.	350mA	128	12500	12100	13300	144
3 🙎	450mA	128	14600	14400	15800	188
E A	350mA	128	11700	11600	12600	144
32	46CmA	128	13400	13300	14700	168



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.

EDS - Select high-brightness LEDs in Cool White (5000K) or Neutral White (4000K) color temperature, 70 CRI

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. Exture IPSS railed,

executions passed since. Profiler Profiler (and fig. 4) glass lens sealed to dis-cast aluminum door assembly, Securis 10 housing with stainkass shell hinge bracket, Integral over-central ratch allows assy tool-kass access to derive. Optic provided with catch mechanism to firm't door swing. One-piece extruded allocone gasket sails optical assembly against the housing. MOINTIMA - Use with 5' traditional drilling pattern. Integral cast mounting ann is fast for square pole applications. Use round pole adaptor (RPPC) to mount to round poles, RPPC must be ordered apparable, Erratuel 6' arm usension is available (but not required for 90' or 120" mounting configurations).

ELECTRICAL - Two-staps surge protection (including separate surge protection built into electronic driver) meets IEEE CSZ 41.2-2002, Location Category C, Available with universal voltage power supply 120-277VAC (UE-5060Hz Input) and 347-480VAC. Optional twistlock photocal inceptacle is available. Photocal must be ordered separatally.

DRIVER - Available in 350mA and 450mA drive currents. (Drive currents are factory programmed), Components are fully encased in potting material for IPS5 moisturestistance. Driver complies with FCC 47 CFR part 15 RFVEMI standard.

FINISH - Fixtures are finished with LSI's DuraGrip[®] polyester powder coal finishing process The DuraGrip finish withstands extreme weather changes without cracking or peeling. WARRANTY - LSI LED lixtures carry a limited 5-year warranty.

SHIPPING WEIGHT (in carton) - 56 lbs /25.4 Kg

LISTING - ETL listed to U.S. and Canadian safety standards. Suitable for wet locations. For a first of the specific products in this series that are DLC fisted, please consult the LED Lighting section of our website or the Design Lights website at www.designlights.org.

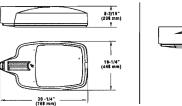
This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific registrements. ARRA @ P85 FC (& IP85



LED AREA LIGHTS - PATRIOT® (XPT3)

Profix	Distribution	Light Source	# of LEDs	Drive Current	Color Temperature	Input Voltage	Finish	Options
XP13 - LEO Pauriol	3 - Type III 5 - Type V FT - Formird Throw ¹	LFD	128	250 - 250mA 450 - 450mA	CW - Cool White (50CO-Q VW - Keulzal White (40CO-Q	UE - Universal Voltage (120-277V) 347-450V	BLX - Stack BRZ - Bronze GPT - Graphte MSY - Mobile Sever PLP - Plattrum Plus SYG - Satin Verde Green WHT - White	PCR - Photoelectric Control Receptacle [†] TB - Termana Block IAAS - Integral Motion Sensor
HOTES:						- Marin	THE COURSE	
	non-liejd-rotatable opts: For a I mus; be ords:red separataly -		rbich the ong	inal metal baliste pa	oduct was rotated and LED	Astaios mag todans.	pon-Randord orientation, co	ensulfi factory
	rmus; se orostoa separatur - ista še d PCR oction redvired.	DOS ACCOLISIONES.						
& . Suspen Pro		anda .						
	est be fourfed in the hand note of a licese Side Shields add to fix							
b - Stack only	est be located in the hand note of a licuse Side Shields add to fix	MA EPA.	ORDERIN	a INFORMATI	ON (Accessories at	e Seld Installed)		
LUMINAI	est de located in the hand cole of p. I Cosse Side Shirlors add to lic IRE EPA GHART • XPT3	MA EPA.		INFORMATI	ON (Accessories as Order Number		Sescription	Onler Humber
LUMINAI	est be located in the hand note of a licese Side Shiebra add to fix IRE EPA CHART - XPT Sangle 1.6	ACCESSORY Description	on.	G INFORMATI	Order Number 122514 ³			DFK48
LUMINAI	est de located in the hand cole of p. I Cosse Side Shirlors add to lic IRE EPA GHART • XPT3	ACCESSORY Description PC120 - Photoco	on nii		0rder Number 122514 ³ 122515 ³	0FX490 - bo FICH47 - Sing	nNo Fusing	Onler Number DENAB
LUMINAI	est be located in the hand note of a licese Side Shiebra add to fix IRE EPA CHART - XPT Sangle 1.6	ACCESSORY Description PC120 - Photoco	on otocell for 20	G INFORMATI	0rder Number 122514 ³ 122515 ³ 152516 ³	DFX 490 - Do FICS47 - Sing XP13 FT HSS	obje fusing e fusing RW- Dismal House Side 574	DFK48 PKQ4 ald - Rear Mount 529281BU
LUMINAI	rst be located in the hand note of it loose Side Shirbs and to to IRE EPA CHART - XPT; Stragle 1.6 D180" 3.6 D90" 2.3	ACCESSORY Osseriptic PC120 - Photoco PC208-277 - Ph	on otocs# for 20 of		0rder Number 122514 ³ 122515 ³	DFX 490 - Do FICS47 - Sing XP13 FT HSS	nNo Fusing	DFK48 PC24 Md - Rear Micont 5202819U 927
LUMINAI	est be located in the hand note of k licese Side Shielen add to fix IRE EPA CHART • XPT; Sangle 1.5 D180" 3.6	ACCESSORY Osseriptic PC120 - Photoco PC208-277 - Ph	on til otocell for 20 di pl		0rder Number 122514 ³ 122515 ³ 152516 ³	0fX/90 - bo 8G47 - \$irg X013 FL8SS X013 PLS - 3 875-80-WW	uble fusing le fusing RNA-Difernal House Side Shi obycarbonate Skield - "-CLR - Witel Moure Plate	DEKAB PKQ4 akt - Rear Mount S292819U 927 1231110
S - Stack only	not be located to the band cole of I locate Side Shirbor and to for IRE EPA CHART - XPT; Single 1.5 D180" 3.6 D90" 2.3 T90" 3.8	ACCESSORY Description PC120 - Photoco PC347 - Photoco PC347 - Photoco PC349 - Photoco RPPC - Reund P	on otocell for 20 di pli tole Plate		0rder Number 122514 ³ 122515 ³ 157516 ³ 1225180 ³ 141940C.R FX130 ³	0fX/90 - bo RC47 - Stro X013 FL8SS X013 PLS - B 8/S-BO-WW 8/A-BO-EC-	uhlo Fusing le Fusing RNA-Differnal House Side Shi obycarbonate Sik etd	DEKAB PICQ4 PicQ4 S292819U 9277 123111/3 142842CI
S - Stack only	rd be located to the loand cole of those Side Shieba and to find MERE FAR CHART - XPT; Stagle 1.6 D180" 3.6 D90" 2.3 T90" 3.8 TH120" 4.8 TH120" 4.8	ACCESSORY Osseriptic PC120 - Photoco PC28-277 - Photoco PC30 - Photoco PC30 - Photoco PC30 - Photoco	on otocell for 20 of pli tole Plate ice ng		0rder Nember 122514 ³ 122515 ³ 15:516 ³ 1225180 ³ 141940C, R 1X120 ⁶ 1X27 ⁴	DFX 490 - Do FIG47 - Sing XP13 FT HSS XP13 FLS - 3 BXS-BO-WW BXA-BO-EX- BXA-BO-FIA-	ible Fusing e Fusing RNA- Edernal House Side SH dycarbonale Sike et	DEXAB Right Rear Mount S202819U 927- 12311113 1428201 16001001
LUMINA	rd be located to the loand colle of a littlese Side Sharbar and to find the second seco	ACCESSORY Osstriptic PC120 - Photoco PC208-277 - Ph PC347 - Photoco PC409 - Photoco PC400 - Photoco RPPC - Round PK120 - Single F	on olocell for 20 of old lole Plate ive ng using	89£ 240Y ox 277Y	0rder Number 122514 ³ 122515 ³ 157516 ³ 1225180 ³ 141940C.R FX130 ³	DFX 490 - Do FIG47 - Sing XP13 FT HSS XP13 FLS - 3 BXS-BO-WW BXA-BO-EX- BXA-BO-FIA-	uhlo Fusing le Fusing RNA-Differnal House Side Shi obycarbonate Sik etd	DEXAB Right Rear Mount S202819U 927- 12311113 1428201 16001001
LUMINA	nt si Scried in the hard colle in I It was Side SAMbra add to fix I It was Side SAMbra add to fix I It was Side SAMbra add to fix Single 1.5 D180" 3.6 D900" 2.3 T900" 3.8 TH120" 4.6 1900" 4.5 1900" 4.5 1900" 1.5 1900" 1.6 1900" 1	## LPA. ACCESSORY	on olocell for 20 of old lole Plate ive ng using	89£ 240Y ox 277Y	0rder Nember 122514 ³ 122515 ³ 15:516 ³ 1225180 ³ 141940C, R 1X120 ⁶ 1X27 ⁴	DFX 490 - Do FIG47 - Sing XP13 FT HSS XP13 FLS - 3 BXS-BO-WW BXA-BO-EX- BXA-BO-FIA-	ible Fusing e Fusing RNA- Edernal House Side SH dycarbonale Sike et	DEXAB Right Rear Mount S202819U 927- 12311113 1428201 16001001

TYPICAL ORDER EXAMPLE. XPT3 FT LED 128 450 CW UE WHT PCR

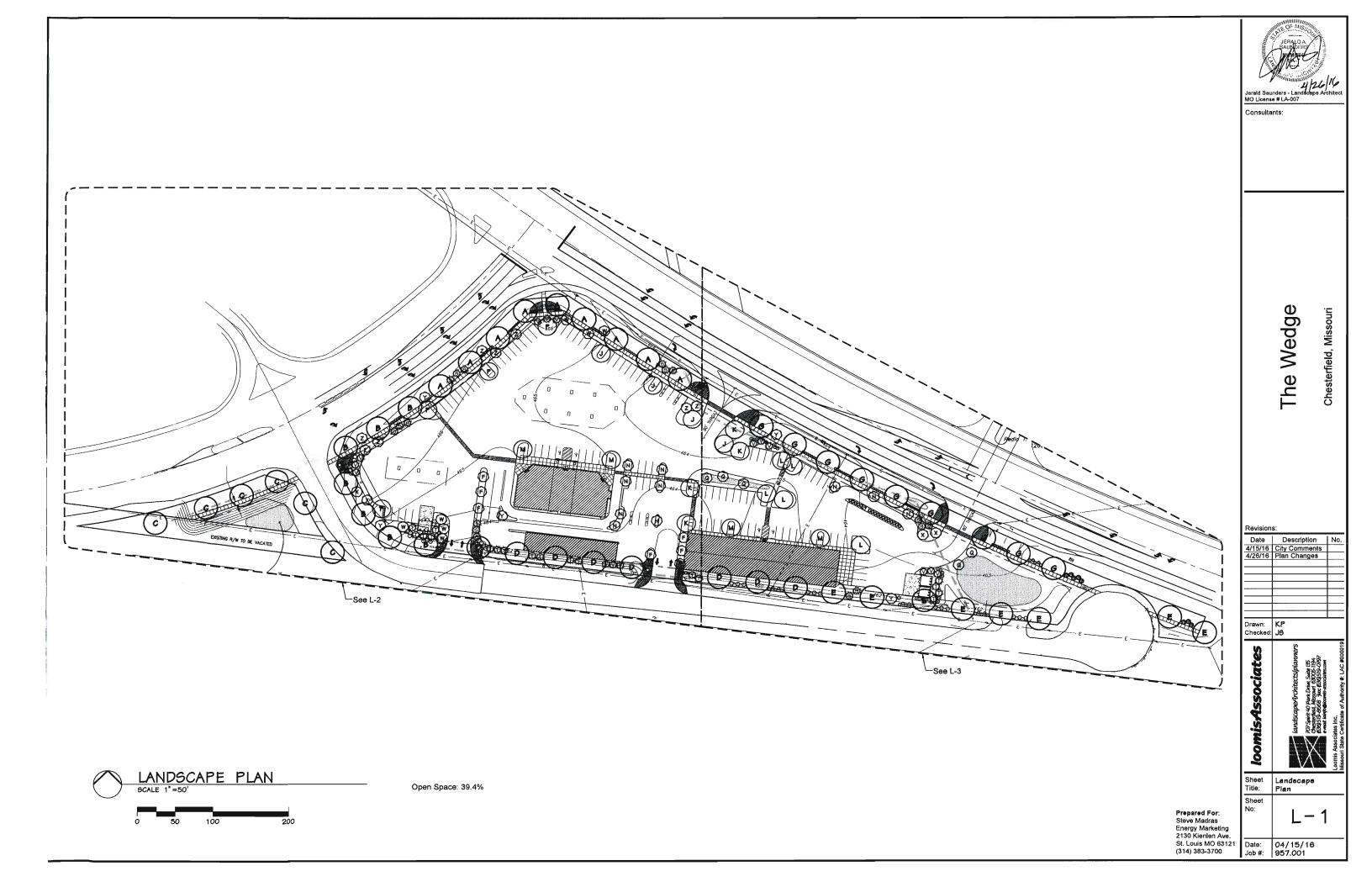


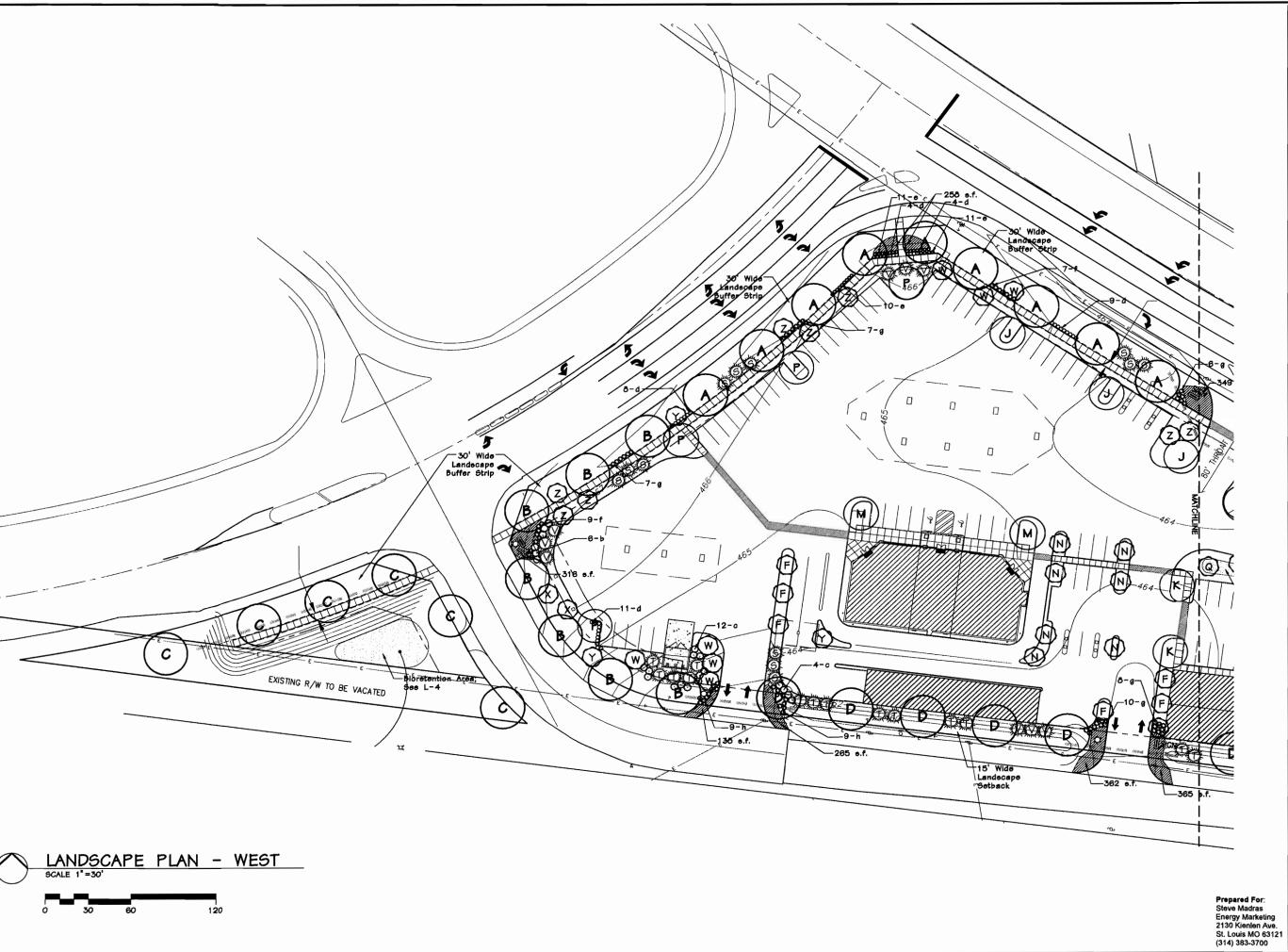
120	Project Harse	; Future Type	11/20/15
	1 toject masses		2 2015
	Catalog #		Est monsintes nat

LIGHT STANDARDS









Jerald Saunders - Landscape Architect MO License # LA-007

The Wedge

Chesterfield, Missouri

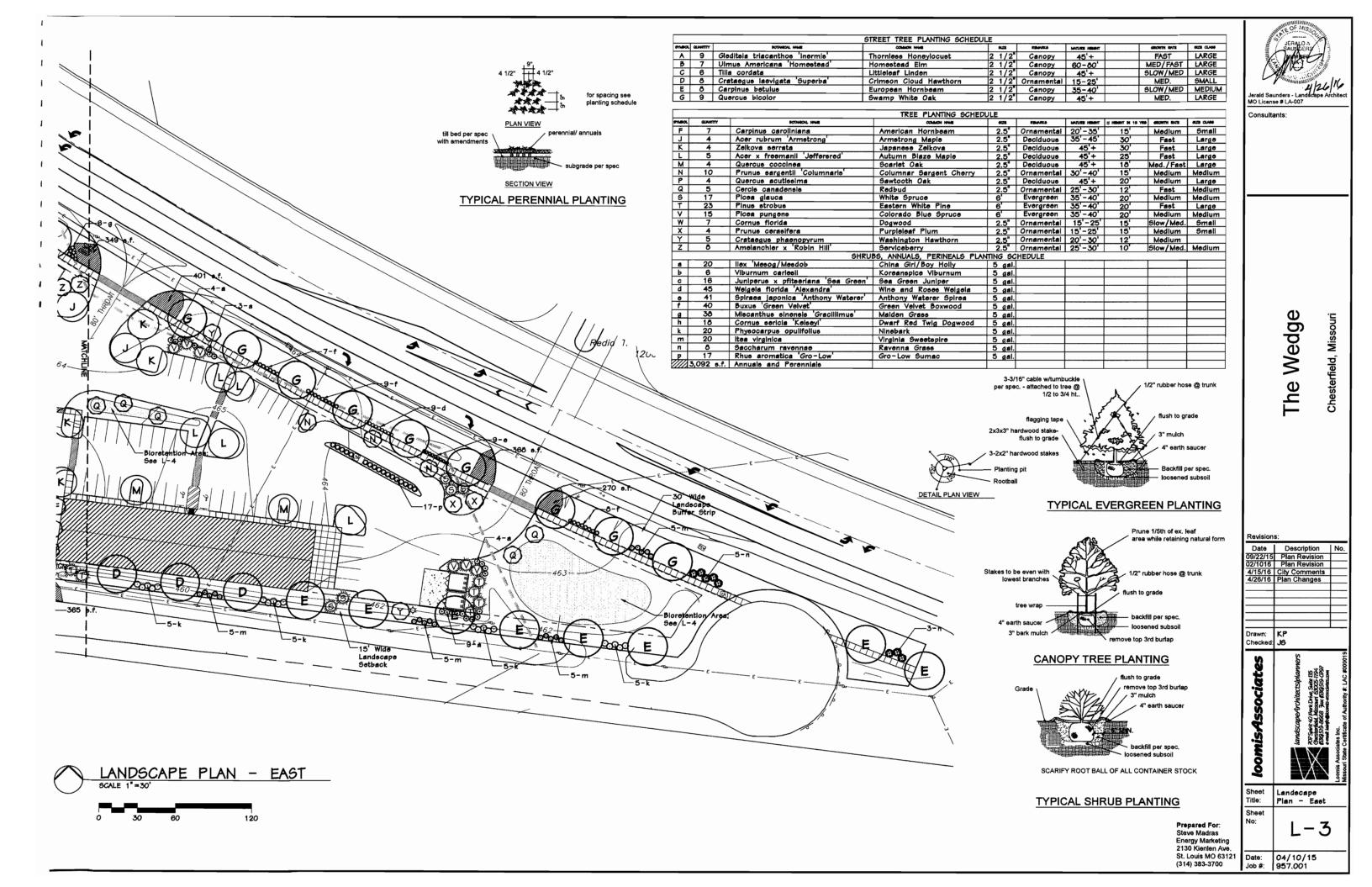
Drawn: KP Checked: JS

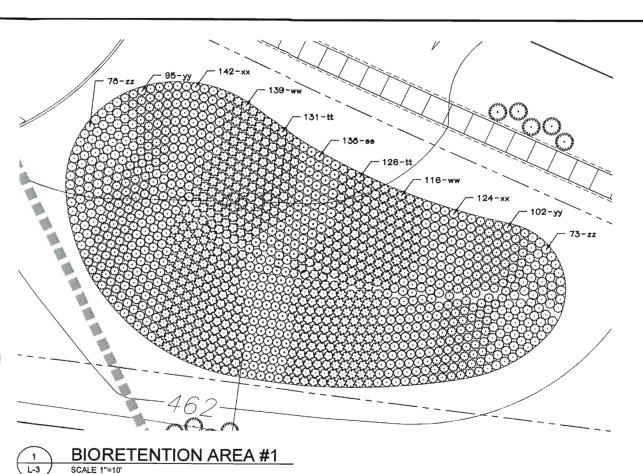
loomisAssociates

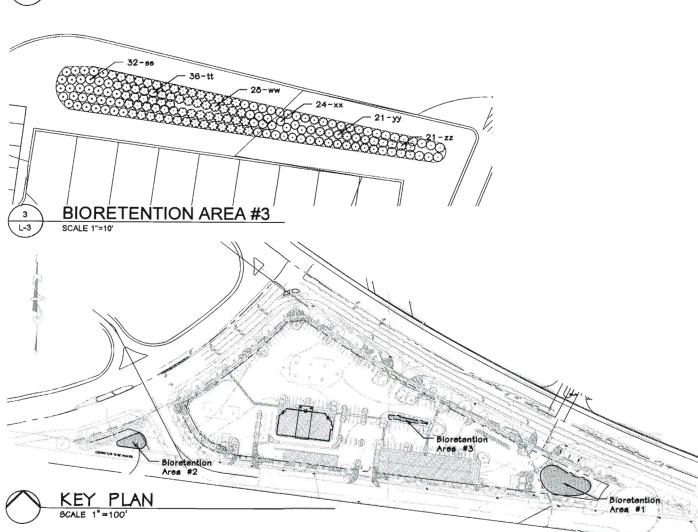
Landecape Plan - West

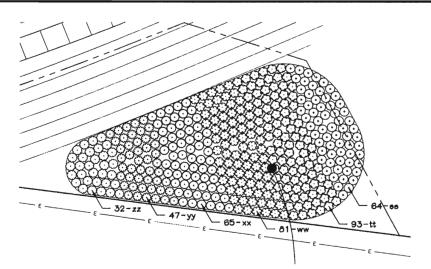
Sheet Title: Sheet No:

Date: 04/10/15 Job #: 957.001









BIORETENTION AREA #2

Groundcover Spacing
See planting schedule
for plant spacing Set at original planting depth Potted groundcover 2" depth 3/8" dia. pea gravel. Keep pea gravel away from crown of plant.

- 1. Remove epent flowers prior to planting.
 2. Loosen root mass at bottom of rootball.
 3. Top of rootball stripped of 1/4" surface growing media and covered with 1/4" landscape bed mix plus surface mulch.

BIORETENTION PLANT SPACING SECTION

TABLE 1: PLANTING, WATER, AND MULCH REQUIREMENTS

L-3

WATER AVAILABILITY	REQUIRED PLANTING PERIOD	MINIMUM CONTAINER SIZE	WATER REQUIREMENT FIRST 3 WEEKS	WATER REQUIREMENT AFTER 3 WEEKS*	MAXIMUM MULCH DEPTH****
No ability to water after initial planting	Late Feb April only	2.25"x3.75" or larger (plug)	Water each plug Immediately after planting		1.5" for pluge
Manual watering with standard sprinkler	Late Feb Early June Sept October	4.5"x5" (quart) or larger in summer and fall	1" (60 min) every 4 days	1" (60 min) every 7 days until plants established***	1.5" for pluge 2.5" for quarte
Automatic irrigation (set to water more frequently than normal during first two months after planting)	Late FebEarly Oct.	2.25"x3.75" (plug) or larger in epring 4.5"x5" (quart) or larger in eummer and fall	1" (60 min) every 4 days in spring and fall 1" (60 min) every 3 days in summer)	1" (60 min) every 7 days until plants established***	1.5" for pluge 2.5" for quarte

*This water amount includes natural rainfall. If you get a $\frac{1}{2}$ inch of natural rain, then you will need to add a $\frac{1}{2}$ inch of water to meet the 1 inch requirement.

**Requires transport of water to the planting site in large containers and pouring enough water onto each plant (after planting) to

****Plants are established when roots have grown out of the container soil and into the native soil by 3-5 inches. This normally takes 3-4 months for most perennials and grasses and up to 6-7 months for trees and shrubs.

****Phents are established when roots have grown out of the container soil and into the native soil by 3-5 inches. This normally takes 3-4 months for most perennials and grasses and up to 6-7 months for trees and shrubs.

******Phents are established when roots have grown out of the container soil and into the native soil by 3-5 inches. This normally takes 3-4 months for most perennials and grasses. Mulch is recommended for tree and shrub plantings at a depth of 3 inches.

PLANT SPACING TABLE

-Plant Spacing (A) (A)

BIORETENTION PLANT SPACING

SPACING 'D'	ROW 'A'	NUMBER OF PLANTS/SQ.FT.
30"	26"	.16
24"	20.8"	.25
18"	15.6"	.45
15"	13"	.64
12"	10.4"	1.00
10"	8.66"	1.44
8"	6.93"	2.25

Note: Plant quantities to be determined by multiplying area (eq.ft.) by number of plante/eq.ft. for required epacing. Table and diagram taken from "Landecape Guide for Stormwater Best Management Practice Design by MSD with a revised date of May 2, 2012.

		BIORETE	NTION PLANTING SCHEDULE		
BIO	RETENT	TON PLANTS			
BYMBOL.	CHMMITY	BOTANECAL INVAE	CONMICH HAME	OUZE	RIBANKS
99	234	Chasmanthium latifollum	River Oats	Type 38 DCP	24 o.c.
tt	386	Juncus effusus	Common Rush	Type 38 DCP	24" o.c.
ww	364	Carex vulpinoidea	Fox Sedge	Type 38 DCP	24 0.0.
XX	355	Lobelia cardinalis	Cardinal Flower	Type 38 DCP	24 o.c.
уу	265	Carex muskingumensis	Palm Sedge	Type 38 DCP	24" o.c.
ZZ	204	irio fuiva	Copper Iris	Type 38 DCP	24" o.c.

Prepared For: Steve Madras Energy Marketing 2130 Kienlen Ave St. Louis MO 63121 (314) 383-3700

verald Saunders - Landscape Arch. MO License # LA-007

The Wedge

Date Description
4/15/16 City Comments
4/26/16 Plan Changes Drawn: KP Checked: JS loomisAssociates

Sheet Bloretention Title: Planting Plan Sheet Date: 02/10/16 Job #: 957.001