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#### **Planning Commission Staff Report**

**Project Type:** Site Development Plan

Meeting Date: December 12, 2016

From: Jessica Henry, AICP

Senior Planner

**Location:** 18382 Chesterfield Airport Road

**Applicant:** Pickett, Ray & Silver, Inc. 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**

Pickett, Ray & Silver, Inc. on behalf of Energy Marketing 709, LLC has submitted a request for construction of 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 standalone car wash 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 2820. The exterior building materials will be comprised of EIFS, stone, brick, and aluminum and glass storefronts.

There are several outstanding items and direction needed of the Planning Commission for this project that are each discussed in detail later in this report. Those items are: Access, Architectural Archways, and Street Lighting.

#### **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 and rezoned the properties to "PC" Planned Commercial District.

#### **Surrounding Land Uses**

The land use and zoning for the properties surrounding this parcel are as follows:

**North:** The land use of the property to the north is commercial and currently contains the Comfort Inn & Suites hotel which is zoned "C8" Planned Commercial District.

<u>South</u>: The properties to the south are primarily vacant and are zoned "M3" Planned Industrial District, however one parcel contains an electric utility substation just south across Old Olive Street Road.

**East:** Properties east of the site are primarily vacant and are zoned "M3" Planned Industrial District.

<u>West</u>: The property to the west is the Chesterfield Blue Valley Development which is zoned "PC" Planned Commercial District.



Figure 1: Aerial

#### **Comprehensive Plan Analysis**

The subject site is located within Ward 4 of the City of Chesterfield. The City of Chesterfield Land Use Plan indicates these parcels are within the Mixed Use (Retail/Office/Warehouse) which is defined as a mixture of office, office /warehouse distribution and retail development with a maximum height of 3 stories (45 feet above grade). Development should have "business park" quality. This subject site is not located in any sub-area identified by the Comprehensive Plan.

The Comprehensive Plan includes the following Commercial Development Policy which is applicable to the proposed development:

#### **Commercial Development Policies**

- 3.1.1 Quality of Design Overall design standards should be provided for smaller-scale, mixeduse, project-oriented developments. Developments should emphasize architectural design, pedestrian circulation, landscaping, open space, innovative parking solutions and landscape buffering between any adjacent residential uses.
  - This policy is met by this proposed development. Please see Access and Site Circulation, Parking, Landscaping and Open Space, and Architectural Elevations sections. These sections discuss each of these items in detail, as they apply to this project.

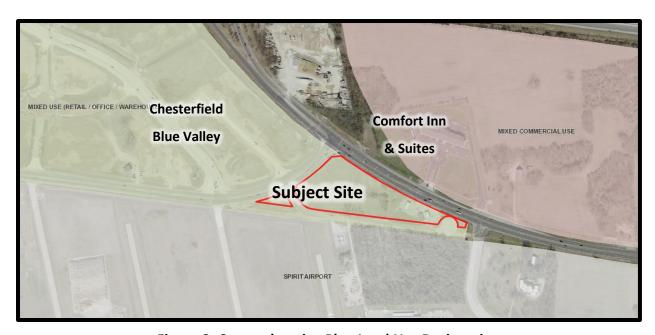


Figure 2: Comprehensive Plan Land Use Designation

#### **STAFF ANALYSIS**

#### **Access and Site Circulation**

Two access points are provided along Chesterfield Airport Road and two along Old Olive Street Road. However, the configuration of the easternmost access point on Chesterfield Airport Road does not conform to the approved site specific Ordinance 2820 and associated Preliminary Plan. Specifically, the Site Development Plan proposes a left turn movement into the easternmost access of the development which is specifically prohibited, as shown in the following excerpts from Ordinance 2820 and the Preliminary Plan:

#### I. ACCESS/ACCESS MANAGEMENT

- 1. Access to the development, except for the access to Out Lot A, shall be as shown on the Preliminary Plan, and adequate sight distance shall be provided, as directed by the City of Chesterfield, the Missouri Department of Transportation and St. Louis County Department of Highways and Traffic, as applicable.
  - a. The access to Out Lot A shall be as directed by the City of Chesterfield.
  - b. Left turn movements out of the development, at the easternmost access point along Chesterfield Airport Road, shall be prohibited.

Figure 3: Excerpt pertaining to access from Ordinance 2820

Note that Out Lot A is the small triangular tract of land that is separated from the main portion of the site by Old Olive Street Road. Although this small tract will not contain any structures, an access point is provided off of Old Olive Street Road to permit for routine maintenance of the bioretention basin located on this tract.

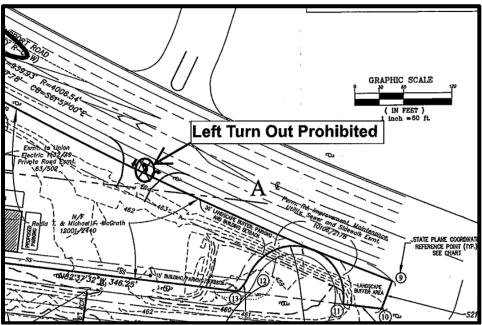


Figure 4: Easternmost access point as approved via Ordinance 2820

The issue of access was discussed at length during the zoning process for this development. Throughout the Site Development Plan review process, Staff has asserted that the access as shown on the Site Development Plan does not comply with the Ordinance; however, the applicant has declined to revise the Plan. The Applicant is requesting approval of the Plan as submitted (see attached letter). Additionally, on August 26, 2016 the City received a letter from St. Louis County stating that they were requiring the left turn movement out of easternmost access to Chesterfield Airport Road. As City Staff makes our recommendations based upon adherence to the City Code and the planned district ordinance, Staff is recommending that this access be restricted so that no left turn is permitted, as required in Ordinance.

A complete copy of Ordinance 2820 is accessible from the City's website here for you:

#### https://www.chesterfield.mo.us/ord/2014/ord2820.pdf

#### **Pedestrian Circulation**

In addition to the sidewalks 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.

#### **Parking**

As shown on the color site development plan excerpt on the following page, parking is provided throughout the site and is allocated by land use as required by the Unified Development Code. In addition to providing the required parking for each land use (retail, c-store, fast food restaurant, and car wash), additional stacking requirements are provided for the fast food restaurant drive-thru, car wash drive-thru, and vacuum stations. As provided on the Site Development Plan, the parking meets the requirements established in the City's Unified Development Code.

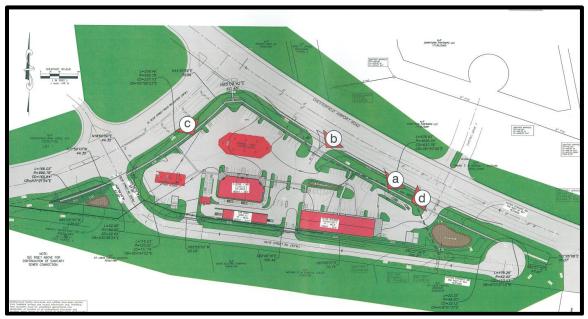


Figure 5: Colored Site Plan (letters represent cross section details not shown)

#### **Landscaping and Tree Preservation**

The request meets requirements of the City Code. 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.

Landscape buffers consisting of trees, shrubs, bushes, and perennial planting beds are provided along each of the three frontages in accordance with the Unified Development Code requirements.

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.

The applicant is proposing to remove all of the existing trees on-site due to the topography of the site and the poor quality species of the existing tree canopy. This was also discussed with the Planning Commission during the zoning meetings when the Applicant explained the requirements for fill to be brought to the site in order to accommodate the site's redevelopment. In accordance with the Unified Development Code, due to the poor condition of the existing trees and upon recommendation of the City Arborist, the Planning and Development Services Director approved the removal of all the existing trees on June 9, 2016. Once the landscape plan is approved by the Planning Commission, the Applicant will have a mitigation plan reviewed by the Department. This will include additional trees to the site above and beyond what the Planning Commission requires, in order to satisfy mitigation requirements as directed by City Code.

#### **Open Space**

The minimum open space required by Ordinance 2820 for this development is 35% and the applicant is providing 39% across the 5.26 acre site. Two large open space areas are provided at the eastern and western extremities of the site, which also include large bioretention areas.

The proposal also includes a public art installation near the intersection of Relocated Olive Street Road and Chesterfield Airport Road. The exact installation will be determined prior to the issuance of building permits, after both the Planning and Development Services and Parks, Recreation and Arts departments have reviewed and approved the art piece.

#### **Architectural Elevations**

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

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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.



Figure 6: Retail building front and rear elevations

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.

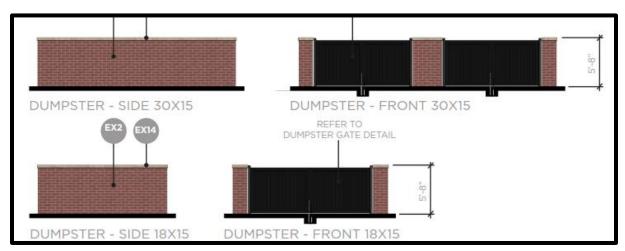


Figure 7: Dumpster enclosure elevations

The applicant is proposing to construct an architectural archway feature at the entrance to the car wash and restaurant drive-thru lane entrances adjacent to the c-store building. This archway, shown in the images below, was not included in the ARB submittal. Based on this, Staff is requesting Planning Commission input of the appropriateness of this feature given its prominent location, size, and visibility from Chesterfield Airport Road. The proposed archway is 18'6" at the tallest point. Note that although signage is shown, signage is reviewed as a separate process. In this case, the applicant has submitted a Sign Package that is requesting lit signage on the archway. As part of that review, Staff has provided comments pertaining to the prominence and visibility of the signage from Chesterfield Airport Road and will make recommendations pertaining to signage based on the Applicant's response to these comments. Once Staff review of the Sign Package request has concluded, the Sign Package will be placed on a Planning Commission agenda for review.

Regarding the archway as architectural element alone, without consideration to the signage request, Staff would note that it is substantially taller than required to provide the necessary clearance for vehicles to enter the drive thru lanes. Based on this, Staff recommends that the Planning Commission consider reducing the height so it is more integrated with the adjacent building.



Figure 7: C-Store/fast food building elevation with associated architectural arch element



Figure 8: C-Store/fast food building rendering with associated architectural arch element

The project was reviewed by the Architectural Review Board (ARB) on May 12, 2016. A motion to forward the submittal to the Planning Commission with a recommendation for approval with the conditions listed below was passed by a vote of 6-0.

1. Consideration should be given to moving/screening the vacuums along Chesterfield Airport Road to make these features less visible.

In response to this recommendation, the applicant has added additional shrubbery to the Landscape Plan and has stated that the color of the vacuum stations will be revised from yellow to dark green, as shown in the rendering below:





Figure 9: Comparison renderings of vacuum stations

 More detail should be provided for the appearance of the ATM area and consideration be made to integrate its design with the proposed architecture of the buildings and/or use landscaping to screen.

In response to this recommendation, the applicant has provided a rendering and Architectural Elevations for the proposed ATM in order to ensure that the design is integrated with the proposed buildings. Note that the island containing the ATM will be planted with shrubs, as shown in the Landscape Plan.

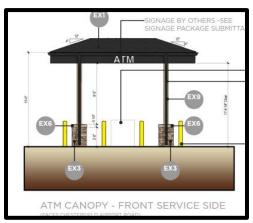




Figure 10: Proposed Architectural Elevation and rendering for ATM

- 3. Consider adding more shrubs near the two entrances on Chesterfield Airport Road.

  In response to this recommendation, the applicant has added shrubs near the entrances.
- 4. Consideration should be given to using landscape islands or other similar features to provide a safer pedestrian path west of the gas station building and north of the large vehicle gas canopy.
  In response to this recommendation, the applicant has provided a pedestrian path as discussed by the ARB.

#### 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.

The Unified Development Code requires that street lights be installed in commercial developments "at each intersection of a street within the subdivision, on street frontage between intersections, at each intersection of a street with a pedestrian way, at each circular turnaround, and within parking lot areas to comply with the provisions and regulations described herein." However, the applicant is providing street lights only along the old Olive Street Road frontage. As direct communication from St. Louis County prohibiting the placement of street lights within the County's right-of-way as not been received, Staff is recommending that the provision of street lights along Relocated Olive Street Road and Chesterfield Airport Road be made a condition of approval for the Site Development Section Plan. Installation and maintenance of the lighting, should also be a requirement of the developer if indeed lights are required by the Commission.

#### STAFF RECOMMENDATION

Staff has reviewed the Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design. Staff has found the proposal to be in compliance with the site specific ordinance, Comprehensive Plan, and City Code requirements with the exception of the easternmost access point and the lack of street lights on Chesterfield Airport Road and Relocated Olive Street Road. Staff recommends approval of the proposed development of The Wedge McGrath Plaza (Energy Express) with the following conditions:

- 1. That the easternmost access point comply with Attachment B of Ordinance 2820; and
- 2. That street lights be provided along Chesterfield Airport Road and Relocated Olive Street Road with a note on the Site Development Plan requiring installation and maintenance be the responsibility of the Developer; and
- 3. That if the architectural elevations are approved as submitted by the Applicant with the new archways, said archways be reduced in height.

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#### **MOTION**

The following options are provided to the Planning Commission for consideration relative to this application:

- 1) "I move to approve (or deny) 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 by the Applicant.
- 4. "I move to approve the Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for The Wedge McGrath Plaza (Energy Express), with the following conditions:
  - a. That the easternmost access point comply with Attachment B of Ordinance 2820; and
  - That street lights be provided along Chesterfield Airport Road and Relocated Olive Street Road with a note on the Site Development Plan requiring installation and maintenance be the responsibility of the Developer; and
  - c. That the architectural archways be included in the approval at a height of . .

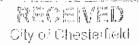
Attachments: Letter from Brad Goss

Site Development Plan Lighting Cut-sheets Landscape Plan Lighting Plan

Tree Stand Delineation Architectural Package

CC: Aimee Nassif, Planning and Development Services Director

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Nov 28 2016

Department of Public Services

Brad Goss Ph 314.719.3702 Fax 314.719.3703 bgoss@salawus.com

November 28, 2016

#### Sent via Regular USPS and Electronic Mail

Smith American

Attention: Aimee Nassif / Jessica Henry Planning Department 690 Chesterfield Parkway West Chesterfield City Hall Chesterfield, MO 63017-0760

Re: Energy Marketing Plan

Dear Ms. Nassif and Ms. Henry:

Pursuant to our recent meeting at the City, this letter is responsive to the City's refusal to approve the left hand turn movement out of the easternmost access to Chesterfield Airport Road.

We have previously submitted to you, and you are in possession of, a letter dated August 3, 2015, from the St. Louis County Transportation/Public Works Department requiring the left turn movement out of the easternmost access to Chesterfield Airport Road to provide adequate access and to enhance traffic safety. Chesterfield Airport Road is owned and controlled by St. Louis County, being part of the County-maintained Arterial Road System. The City of Chesterfield's Comprehensive Plan clearly identifies Chesterfield Airport Road as a major arterial road and the Area Engineers Map for St. Louis County clearly identifies Chesterfield Airport Road as part of the St. Louis County Arterial Road System. The City of Chesterfield does not pay for the maintenance or improvement of Chesterfield Airport Road.

We previously submitted to the City a detailed analysis of the case law supporting our position in this matter and I once again refer you to that analysis. If you would like me to resubmit it to you, I will be happy to do so. The law in this area is clear that the City does not have the right to regulate my client's property with regard to access to and from the County right of way. The left turn out of the property is being mandated by the governmental body having jurisdiction over the adjoining road system, namely, St. Louis County, Missouri. If the City desires to assert control over the traffic flow into, out of, and upon Chesterfield Airport Road then the City must also assume the cost of maintenance and improvements to Chesterfield Airport Road by annexing the road. Until such time, the City is without jurisdiction in this matter.

For the same reasons, the City does not have the authority to require my client to place street lights in the right of way of Chesterfield Airport Road. Chesterfield Airport

Road is regulated by St. Louis County and the County regulations do not require that my client place street lights in the right of way, which probably explains the absence of such lights up and down Chesterfield Airport Road. The fact that the City is attempting to assert jurisdiction over the road for lighting purposes does not change the fact that the City lacks this power. Whether St. Louis County would allow the lights misses the point. My client cannot be burdened by the City requiring that it seek to install improvements in property governed by another jurisdiction. Accordingly, my client will not be installing street lights in the right of way of Chesterfield Airport Road.

I would also note that we have filed with the City, and you have in your possession, two separate, independent traffic studies supporting this left hand turn from the property. Not one, but both traffic consultants recommended the traffic access proposed by my client that is set forth on the plan, including the left turn out onto Chesterfield Road. Each of the studies arrives at the same conclusion that this turning movement is necessary for adequate site access and to prevent safety problems and traffic burdens at other intersection around the property. Finally, as noted, the only agency with jurisdiction, St. Louis County, is requiring this left turn.

If you should have any questions, please call me. Thank you.

Very truly yours, SmithAmundsen LLC

Brad Goss

cc: Bob Grant Steve Madras Doug Tiemann



# Architectural Review Board

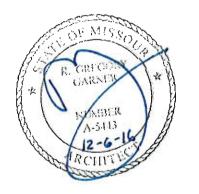
Submittal Package

[12 December 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 defineate and separate the pedestrian and vehicular traftic, 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 15 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.

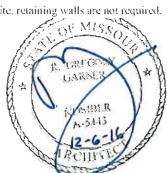
The proposed hours of operation will be the same as those of the businesses on the surrounding properties, namely, Comfort Inn to the northeast, and the Gas Station/Outlet Mall to the west, which contain no limitation on the hours of operation. This is consistent with existing uses and there is no residentially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





#### Building Scale: Building height is consistent with adjacent and neighboring properties.

General Requirements Addressing Building Design

#### В.

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.

#### 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
- Roof top units screened by metal panels matching proposed building exterior wall colors.

#### 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.

#### 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 1-64 corridor.









Energy Marketing 2nd Amended Site Development Plan This drawing for exhibit purposes only (35 SILVER INC O UTILITY POLE - Not for construction Q LIGHT STANDARD Exhibit 0 MATER VALVE 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 ■ WATER WEITER part of U. S. Survey 102, Township 45 North - Range 3 East, PICKETT, RAY ( CONC PYNT St. Louis County, Missouri - C - OVERHEAD UNLITY SEWER CLEANOUS ELECTRIC BOX LOCATION MAP Energy Marketing
A tract of land being Lot 2 and Owlot 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, Survey 102. Township 45 North DOWNTOWN PARTNERS LLC 17738/2063 Energy Marketing 709 LLC N18'00'50"E L=166.03' R=990.78' CD=165.84' CB=N7+'21'54"E OLIVE STREET RO. (60'W.) NOTE: SEE INSET ABOVE FOR CONTINUATION OF SANITARY SEWER CONNECTION. CHECKED OST PROJECT # 09056 EMKT.OOR TASK / / FIELD BOOK 1287 SHEET 1 OF 1































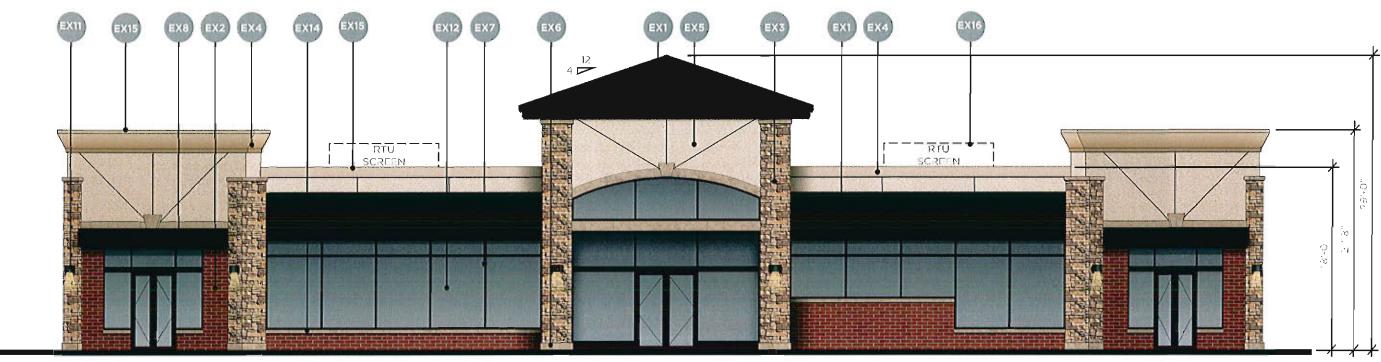












**CSTORE - FRONT** 

#### LEGEND

- **EX1** Architectural Shingle (Color: Black).
- EX2 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).
- EX5 Exterior Insulation Finish System (Color: Birch).
- EX6 Adhered Stone Snapped Edge Wainscot Sill & Baso, Ashlar Cul Heads & Koystone (Color: Buckskin).
- EX7 Aluminum Storefront with 1" insulated glazing.
  (Color: Black Anodized Aluminum).
- EX8 Metal Awning, (Color: Matte Black).
- 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 Aming 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

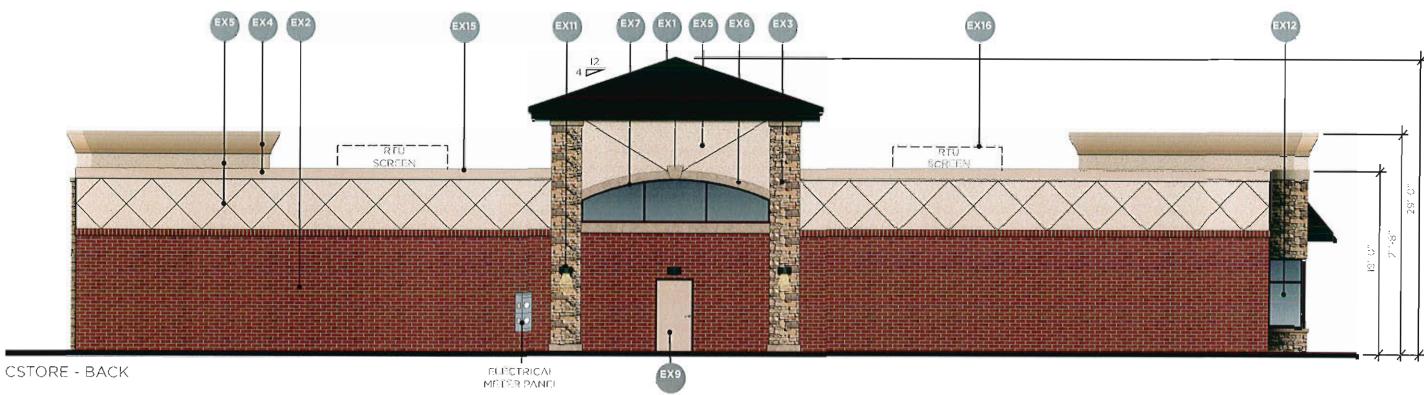


Archimages architecture interiors



SCALE

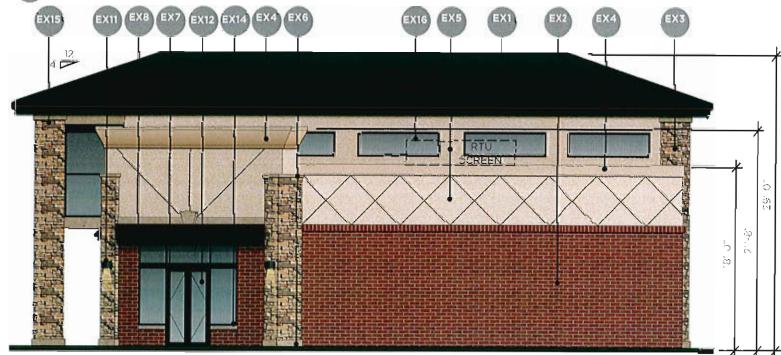
EXTERIOR ELEVATIONS CSTORE 1599 | ENERGY EXPRESS | DECEMBER 12, 2016



EX1	<ul> <li>Architectural</li> </ul>	Shindle	Color	Rhodd
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- EX2 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).
- Exterior Insulation Finish System (Color: Almoret).
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- EX6 Adhered Stone Snapped Edge Wainscot Sill & Base. Ashlar Cut Heads & Registone (Color: Buckskin).
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- EX8 Michal Awning. (Color: Matte Black).
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- EX14 Cast Stone. (Color Light Tan)
- EX15 Motal Coging (Color Match adjacent finish color)
- **EX16** Plastic RTU Screen (Color Light Tan)



CSTORE - SIDE

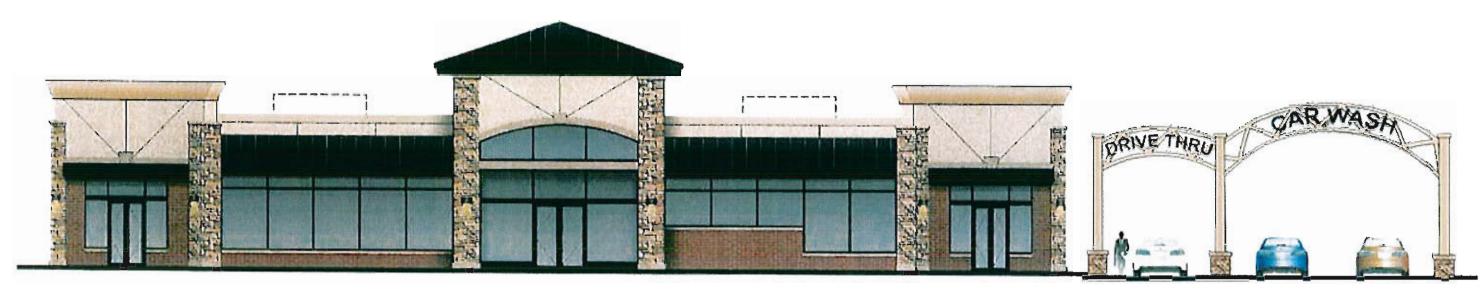


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SCALE

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



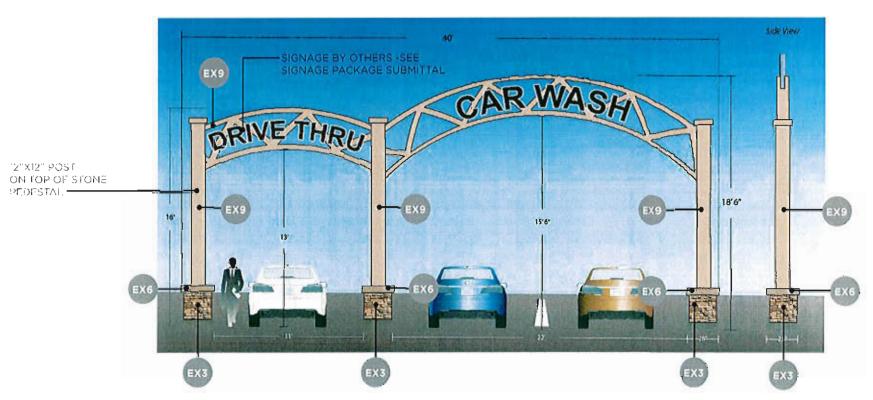
CSTORE - FRONT WITH SIGNAGE ELEMENT NIS.

SEE PREVIOUS SHEET FOR BALANCE OF MATERIAL INFORMATION

#### LEGEND

- EX1 Architectural Shingle (Color: Black).
- EX2 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).
- 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).
- EX7 Aluminum Storefront with 1" insulated gluzing.
  (Color: Black Anodized Aluminum).
- EX8 Metal Awning, (Color: Matte Black).
- 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** I" Insulated Inted 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)



DRIVE-THRU & CAR WASH SIGNAGE ELEMENT N.C.S.



Archimages architecture interiors



SCALE

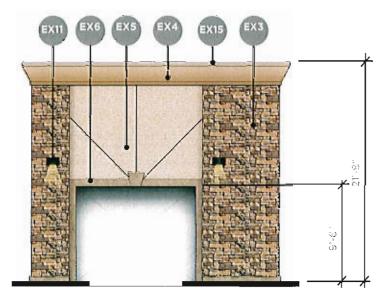
EXTERIOR ELEVATIONS CSTORE 1599 | ENERGY EXPRESS | DECEMBER 12, 2016



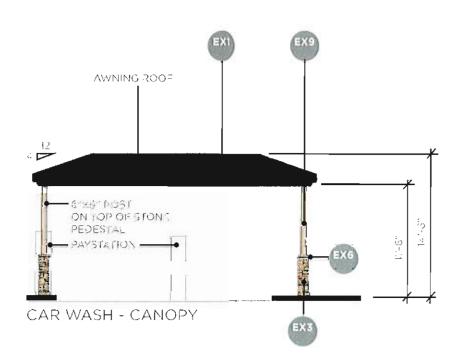
CAR WASH - FRONT SIDE

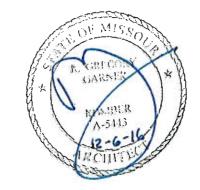
- EX1 Architectural Shingle (Color: Black).
- EX2 Facebrick Veneer (Color: Haverford). 3 5/8"W x 2 1/4"H x 7 5/8"L.
- EX3 Adhered Stone Mountain Lodge Panels (Color: Pioneer).
- Exterior Insulation Finish System (Color: Almond).
- Exterior Insulation Finish System (Color: Brith).
- EX6 Adhered Stone Snapped Edge Wainscot Sill & Base, Ashlar Cut Heads & Keystone (Color: Buckskin).
- Aluminum Storefront with 1" insulated glazing.
  (Color: Black Anodized Aluminum).
- EX8 Metal Awning, (Color: Matte Black).
- EX9 Extenor/Commercial Grade Paint. Point 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 linted 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)





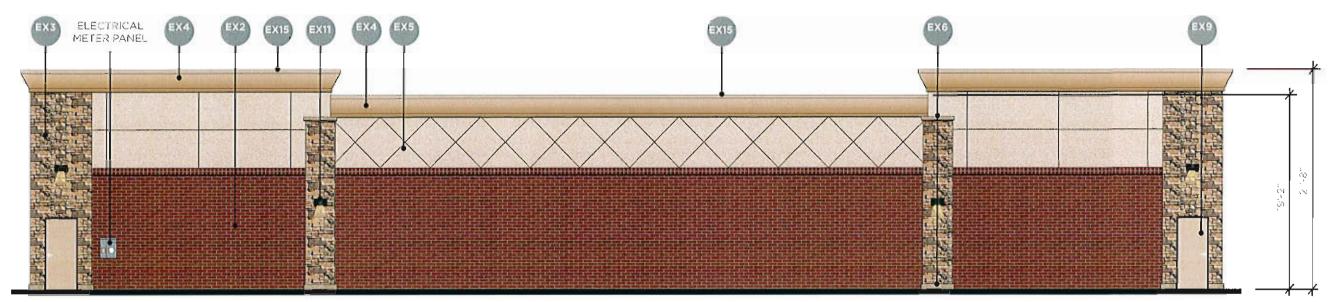












CAR WASH - BACK SIDE

EX1	Architectural	Shingle	(Color:	Black).

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

X3 Adhered Stone Mountain Ledge Panels (Color: Proneer).

Exterior Insulation Finish System (Color: Almond).

Exterior Insulation Finish System (Color: Birch).

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

EX7 Aluminum Storefront with  $\mathbf{1}^*$  insulated glazing.

(Cofire: Black Anodized Aluminum).

color to match EX4.

X9 Exterior/Commercial Grade Paint. Paint

Metal Awning. (Color: Matte Black).

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

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

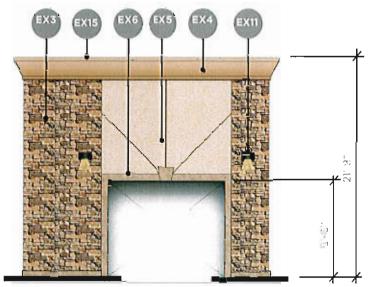
EX12 1" Insulated tinted windows (Color: Grey)

EX13 Fuel Canopies Manufactured by Arming Companies, Inc.

**EX14** Cast Stone. (Cofor - Light Tain)

EX15 Metal Coping (Color - Match adjacent finish color)

EX16 Plastic RTU Screen (Color - Light Tan)

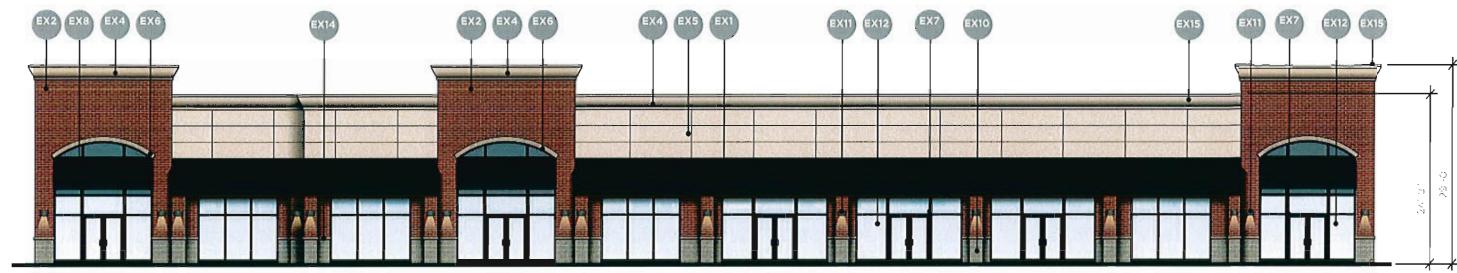


CAR WASH - EXIT

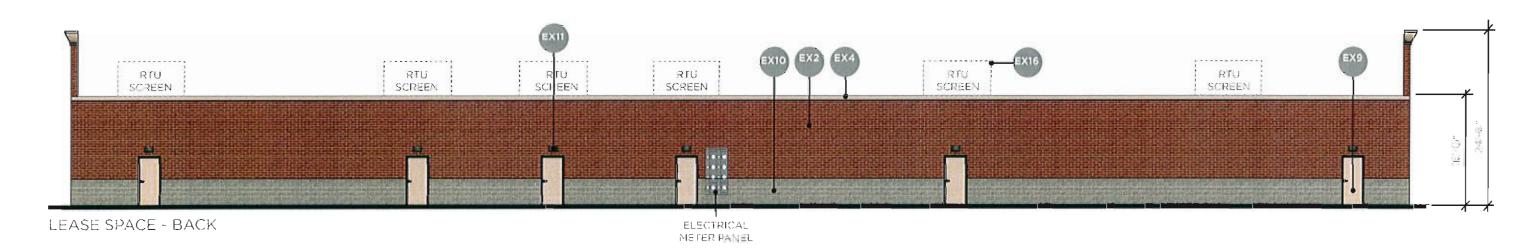




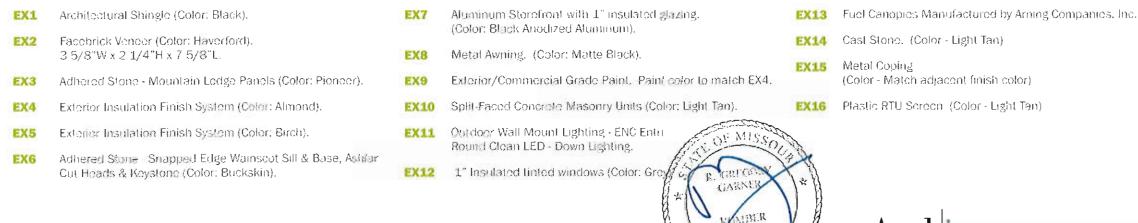




LEASE SPACE - FRONT



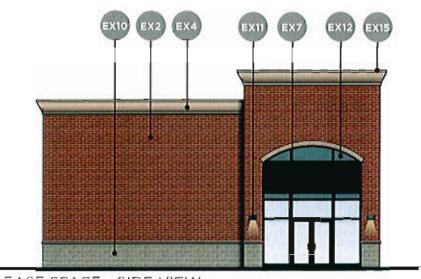
#### LEGEND



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



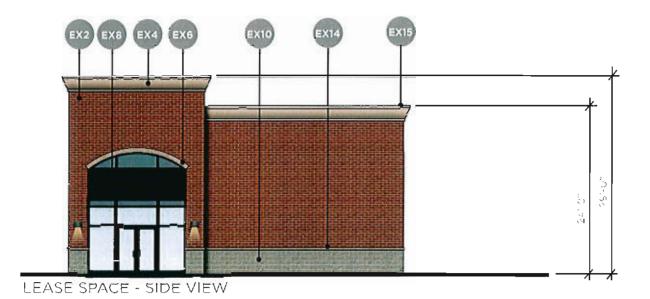




LEASE SPACE - SIDE VIEW

Architectural Shingle (Color: Black). Aluminum Storefront with 1" insulated glazing. (Color: Black Anodized Aluminum). Facebrick Vencer (Color: Haverford). Metal Awning. (Color: Matte Black). 3 5/8"W x 2 1/4"H x 7 5/8"L. EX3 Adhered Stone - Mountain Ledge Panels (Color: Pioneer). Exterior/Commorcial Grade Paint. Paint color to match EX4. Split-Faced Concrete Masonry Units (Color: Light Tan), Exterior Insulation Finish System (Color: Almond). EX4 Exterior Insulation Finish System (Color: Birch). EX11 Outdoor Wall Mount Lighting - ENC Entra EX5 OF MISSO Round Clean LED - Down Lighting. Adhered Stone Snapped Edge Wainscot Sill & Base. Ashlar EX12 1" Insulated tinted windows (Color: Grey) Cut Heads & Keystone (Color: Buckskin). GARNI

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



EX13 Fuel Canopies Manufactured by Arning @impanies, Inc.

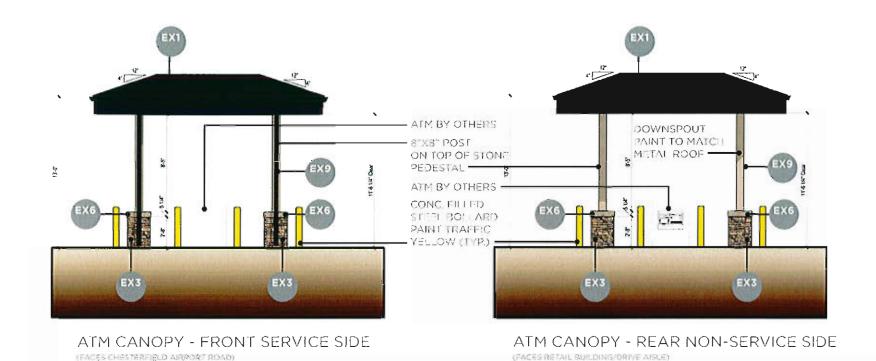
EX14 Cast Stone. (Color - Light Tan)

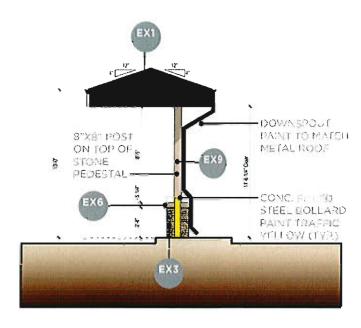
EX15 Metal Coping (Color - Match adjacent finish color)

EX16 Plastic RTU Scroon (Color - Light Tan)









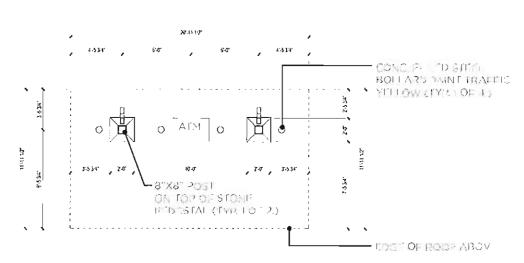
ATM CANOPY - SIDE VIEW

- EX1 Architectural Shingle (Color: Black).
- 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).
- Adhered Stone Snapped Edge Wainscot Sill & Base, Ashlar Cut Heads & Keystone (Color: Buckskin).
- EX7 Aluminum Storefront with 1" insulated glazing.
  (Color: Black Anodized Aluminum).
- EX8 Metal Awning. (Color: Matte Black).
- EX9 Exterior/Commercial Grade Paint. Paint color to match EX4.

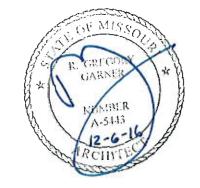
- **EX10** Split Faced Concrete Masonry Units (Color: Light Tan).
- EX11 Outdoor Wall Mount Lighting ENC Entri Round Clean LED - Down Lighting.
- EX12 1" insulated tinted windows (Color: Grey)
- **EX13** Fuel Canopies Manufactured by Arning Companies, Inc.
- EX14 Cast Stone. (Color Light Tan)
- EX15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

(Color - Match adjacent finish color)

EX16 Plastic RTU Screen (Color - Light Tan)

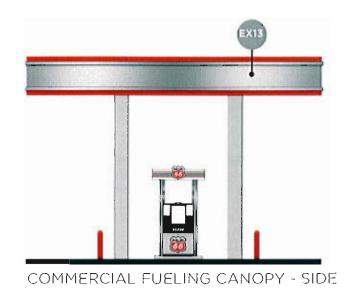


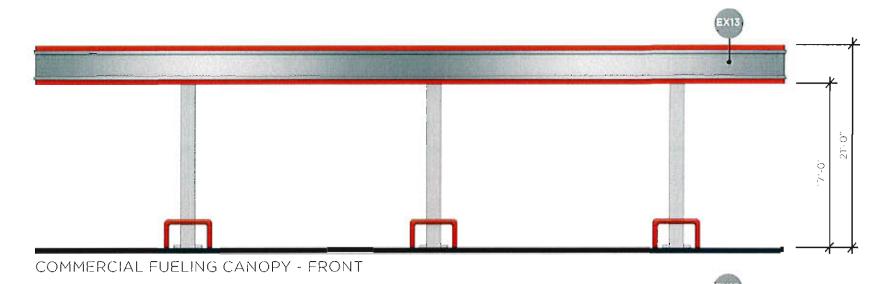
ATM CANOPY - PLAN VIEW

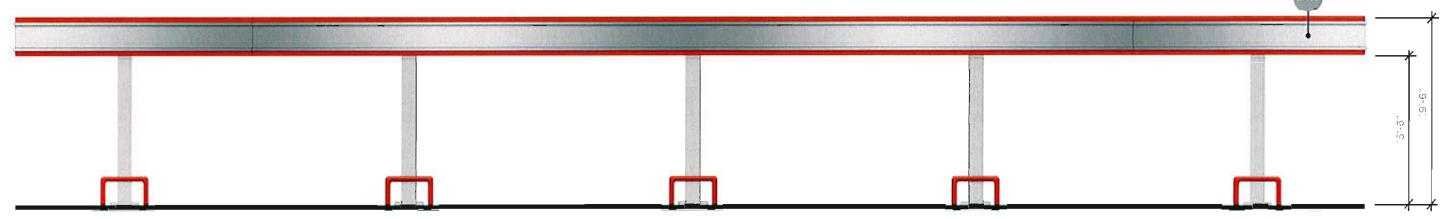












GAS CANOPY - FRONT

#### LEGEND

EX1	- Architectural Shirigle (Color: Black).	

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

EX3 Adhered Stone - Mountain Lodge 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).

EX7 Aluminum Storefront with 1" insulated glazing. (Color: Black Anodized Aluminum).

**EX8** Metal Awning (Color: Matte Black).

**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)



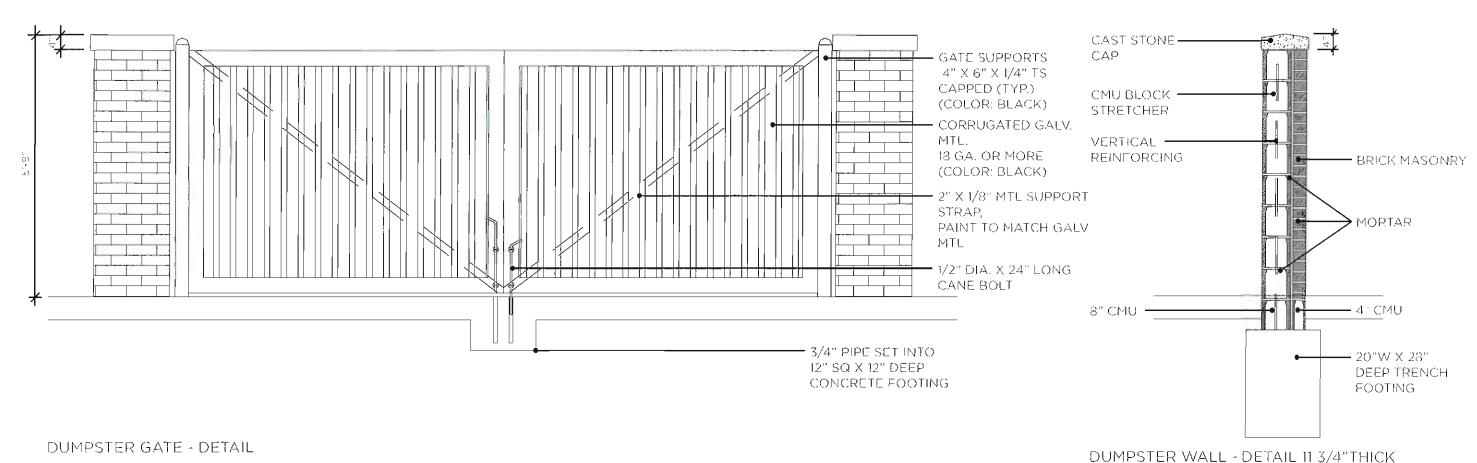
GAS CANOPY - SIDE





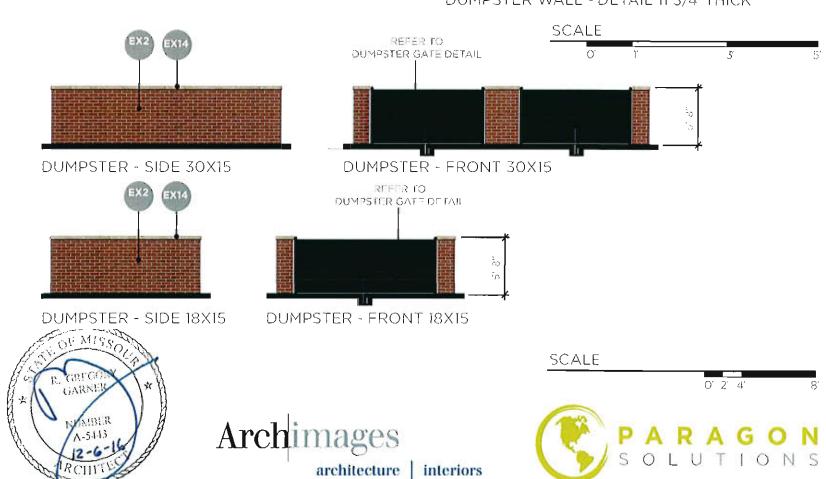
**SCALE** 

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



- **EX1** Architectural Shingle (Color: Black).
- EX2 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).
- Exterior Insulation Finish System (Cofor: Almond).
- Exterior Insulation Finish System (Color: Birch).
- EX6 Adhered Stone Snapped Edge Wainscot Sill & Base. Ashlar Cut Hoads & Keystone (Color: Buckskin).
- EX7 Aluminum Storefront with 1" insulated glazing (Color: Black Anodized Aluminum).
- **EX8** Metal Awning, (Color: Matte Black).

- 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** 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)



EXTERIOR ELEVATIONS DUMPSTER ENCLOSURE 1599 | ENERGY EXPRESS | DECEMBER 12, 2016

#### 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 51 Louis County Records, part of Lot 6 of the Subdivision of R. H. Stevens Form according to the piol thateof recorded in Plat Book 7, Pages 37 of the 51 Louis County records and part of U. S. Survey 102, January 45 North - Range 3 East, 51 Louis County, Wissour, and being more particularly described as

Beginning at the most Northern corner of said Lot 2 of McCrath Plaza, said point being on the Saultr right of way the of Chesterfield Airport Road, thence Eastwardly adong said Saultr right of way five of Chesterfield Airport Road dang a curve to the left howing a radius of 4006 54 feet on arc distance of \$39.93 feet, a chord which left howing a radius of 4006.54 feet an arc distance of 939.93 feet, a chord which bears 5.61.57.00? E o chord distance of 937.78 feet to the most Eastern corner of property of Redia 1, and Wichael F. McGrath, as described in the deed recorded in Book 12001, Page 2440 of the 51. Louis County Records, thence 5.21.26.08. We distance of 16.37 feet and N.827.37.32. We a distance of 14.67 feet along the boundary into all said McGrath property to the Stutheast corner of property conseyed to 51. Louis County, Misseuri boundary, stong a curve to the feet through a radius of 62.00 feet an arc length of 179.29 feet, a chord which brais N.73.37.13. We a chord distance of 173.03 feet and chard which brais N.73.37.13. We a chord distance of 173.03 feet and along a curve to the right having a radius of 48.00 feet pri are distance of 22.32 feet, a cherd which bears \$ 36° 51° 37° W a chard distance of 22.12 feet to the South him of the ofcresald NcGroth property, thence N 82° 37° 32° W a distance of 346.25 feet to the Southeast corner of property of Redia 1, and Michael F McGroth, as described in the deed recorded in flook 11496, Page 594 of the St Lauis County Records; thonse N 83° 08° 57° W a distance of 20,74 feet and N 82° 16:18" As distance of 35.44 feet along the South line of sold McGrath properly to the Southeast corner of the aforesaid Lot 2 of McGrath Plata, thence along the boundary lines of said Lot 2 the following courses and distances in 82:29" OO W adstance of 65:05 feet, olong a curve to the right having a radius of 120:00 feet an arc distance of 116:25 feet, a chard which bears N 54" 44" O5" W a chard distance of 111,74 feet, N 26' 59' 10' W a distance of 57 00 feet, N 18' 60' 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 chord which bears N 51' 59' 23' E a chord distance of 257.73 (cot, N 44' 30' 59" L a distance of 15.86 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 of 5.04 acres more or less

#### PROPERTY DESCRIPTION OUT LOT A

A tract of land being Out Lot A of McGrdth Pidza, a subdivision according to the plot Invent recorded in Plat Rook 125, Pages 11 and 12 of the St. Louis County Records, in U. S. Survey 102, Township 45 North - Range J East, St. Lauis County, Wissouri and being more particularly described as

Beginning at the most Wystern corner of sold Out (at A of McCrath Plaza, sold point being an the North right-of-way line of CRIve Street Road, 60 feet wide, thence along the poundary line of said Out tal. A the following courses and distances: along a curve to the left having a roadise of 900 Pl feet on arc length of 165 0.1 feet, a chord which bears N /11 21 54 f. a chord distance of 165.84 feet, S /11 59 10 f. a distance of 44.35 feet, 5.76'.59'.10" E.a. distance of 57.00 feet, along a curve to the felt having a radius of 182.00 feet on arc length of 22.96 feet, a chard which bears 5.10".38'. 24" F.a. chard distance of 22.94 feet and N.82'.29'.00" W. a distance of 238.93 feet to the point of begaining and containing 9,550 square feet or 0.22 dores more or less

ENERGY MARKETING 100, LLC, the owner of the property shown on this plan for and in consideration of being granted approximate sold plan to develop property under the provisions of Section 03-04-0, "PC" Planned Commercial District of City of Chesterlieid Unified Development Code, do hereby ogives and declare that said property from the data of recording this plan sholl be developed only as shown thereon, unless said plan is amended by the City of Chesterfield, or vaided or vacated by order of ordinance of the City of Chesterfield Council.

IN TESTIMONY WHEREOF, I have necessito set my hand and affixed my Notorial

seal in the County and State dicresaid, the day and year last above written

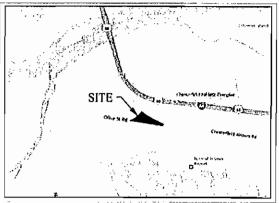
(Hame types) Steven J. Madras

acknowledged said instrument to be the free act and deed of

NOTARY PUBLIC

## 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**

SOPE CONC SIAS &

ATTER SALE FORDS

AND SHIT POSTS

TH'S 42" CHEP CONG PER AT FACH PAY POS

- LIGHTING PLAN

DUMPSTER ENCLOSURE SECTION

2nd AMENDED SITE DEVELOPMENT PLAN

#### PARKING CALCULATION

13. ALL CURBING SHALL BE 6' CONCRETE

GENERAL NOTES

2 99096817 280

) PROPERTY OWNER

5 PROPOSED USE AND

6 THIS TRACT IS IN OR SERVED BY.

CHUCRORORSHAU DE LOCATO UNDERCRONOUNO

9 BUILDING AND SITE SHIPL BY COMPLIANCE WITH THE AVERCAN DISABILITIES ACT REGREATIONS

TO NO SLOPE SHALL BE GREATER THAN 3.1 ALL DISTURBED AREAS SHALL BE RESIDENED.

11 SKANGE SMALL 9E IN ACCORDANCE WITH CITY OF CHESTERFILD CODE AND APPROVED SPONGLITTY

12 EXPHING SHALL BE IN ACCORDANCE WITH CITY OF CHESTERFEID CODE

A FIRE DISTRICT
B SEMAR
C WATER
O TELEPHONE
E ELECTRIC
F GAS

7 REGULATIONS AND PER

OF TRACKS OPEN SPACE- "PC", PLANNED CONVERCIAL

PARCEL DO JUNESCORED PARCEL PA

CHERGY WARKETING 700 ELC 2130 REDUCTS AVE SANT LOUIS, NO 63121 2942

WONARCH FIRE DISTRICE ASO MASSOURI AMERICAN WATER CENTURNTEI AMEREN DE LACLECE GAS COMPANY

SUNTACE STANDARDS

GAS STATION WITH QUICK SERVE PESTAURANT RETAR SALES

30" M.N. (CHESTERFIELD A RPORT ROAD AND RELOCATED GOVE STREET) 15" WIN (OLIVE STREET ROAD) 35% WIN 0.35 MIN

PROPOSED\_USE\_\_\_\_ GAS STATION AND CONVENENCE STORE PARKING REQUIREMENT FOUR AND ONE HALF (4.5) SPACES FOR EYERY ONE THOUSAND (1,000) SQUARE FEE! 4,750 SQ FT \* 4.5/1050 ± 19 SPACES 19. SPACES PARKING REQUIRED PARKING PROVIDED PROPOSED USE LOWER SERVE BESTAURANT FIFTH (15) SPACES FOR EVERY ONE (1,000) SQUARE FELL PARKING REDURATIONS
THOUSAND PARKING REDURED PARKING PROMOED Z.850 SQ F1 \* 15/1000 + 43 SPACES 43 SPACES PARKING AFOURTMENT TWO (2) SIMCES FOR EVERY MALE (3) -

1 EUPLOYEES + 2/3 - 2 SPACES

PROPOSED USE RETAIL STORES PARKING REQUIREMENT FOUR AND ONE HALF (4.5) SPACES FOR EVERY ONE THOUSAND (1.000) SQUARE FEET

10,000 50 FT \* 45/1000 = 45 SPACES 13 SEASES TOTAL SPACES REQUIRED TOTAL SPACES PROVIDED 109 SPACES 109 SPACES NOLUDING 4 ADA ACCESSIBLE

PARKING NOT INCLUDED IN ROTALS

A SPACES

A SPACES

#### STATEMENT OF COMPLIANCE MIN THE GEOTECHNICAL REPORT

DUMPSTER ENCLOSURE PLAN

Gateway Geotechnical, LLC and the undersigned engineer have not prepared these plans. The sent of the undersigned professional engineer has been affired at the request of the City of Chesteffield and is a professional opinion to inducted that the undersigned has reviewed the plans and that in his opinion the grading and improvements relative to slope construction without 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.

Cateway Geolechnical, LLG and the undersigned dissume no responsibility for services by others (pursuant to RSMO 322-411)

Construction means and methods for implementation of the grading plan shall be left to the developer/contractor. Observations of the developer/contractor's compliance with the applicable specifications shall be identified and variety of an artist of services.

PERMOUS AREA LAWN & 15LANOS 72,420 sq m B ORE JENJON ARLAS 7,288 sq ft TOTAL: 79,708 sq ft

20,100 sq fs 10,445 sq ft 149,380 sq ft

IMPERMOUS AREA

BUND NGS SIDE HALKS.

#### OPEN SPACE REQUIPEMENT

TANDSCAPE BUTTER (\$4.52) SET INTERIOR LANDSCAPE AREA (15, 312 SE)

TOTAL OPEN SPACE 189,833 SI ON 39X (INCLUMD GALLY SPACE AND SIDE WALKS (MICLODES CUITOT A PROPERTY OWNED SOCILY BY (MIRSY MARKETING)

#### FLOOR AREA RATO (FAR)

	USE	50 11
1	CONVENENCE STORE #/GAS	7,100
2	CANOPY	9,921
3	CAR WASH	3,000
4	RETAL CENTIN	10.000
5	TOTAL BUILDING AREA	70'057
6	TOTAL PROPERTY AREA	229,088
,	FLOOR AREA HATIO (FAR)	131 0
	WAY UNU FAR ALLOWED	0.550

Armen Nassit AICP

Ack a Hoss, City Dark

On this ... duy of .... AD, 20... before me personally uppeared ... This Site Development Pion was approved by the City of Chesterfield Planning Commission and duly verified on the \_\_\_\_day of \_\_\_\_\_\_\_, 20\_\_\_ by the Charperson of said Commission, authorizing the recording of this Site Development Plan pursuant to Chesterfield

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

ST. LOUIS COUNTY GENERAL NOTES

All proposed engravements and be constructed to St. Louis County Standards.

He places within St. Louis County right-of-way what exceed 5 (harzontal) to

At proposed occess to St. Louis County goods shall meet in nature St. Louis County sight distance requirements.

All sideralis and associated accessibility improvements shall be constructed to St. tious County ADA Standards

. A signet/seried note shall be added to the Construction Plans indicating that the ed existing address along the project frantage meets current SI Louis

. All higherits, power poles or other collected confinctions within the St. Louis County --- promise, some points or other potential positivations within the Sc towns County road sight of vary what have a minimum two (2) foot selbook from look of cush or edge of bioement as directed by the St towns County Department of thighests and failfie.

At growing and drollinge shall be at conformation with SI tools County and MSD Standards

Any mility that performs sonk on St. Icouis County mointained property shall provide the County with a Certificate of insurance evelencing general liability accessing lighty and properly demongle in the amounts associate as the invited of light types of the State for place motions. Such certificate that include St. Icous County are additional insurance of any permit certificate shall provide any about the source of any permit certificate shall provide that a 20 day policy concredition notice to St. Icous County Lipon request, the County all provide the second concurs for both per person and

Prior to Special Use Permit' insudice by the St. Lou's County Department of Highways and Traffic, a special cash excess or a special extres supported by an Interestible Letter of Coent, may be required to be extracted with the St. Louis County Opportunist of Highways and Field's to governies completion of the regular directions.

Gateway Geolechnical ELC

T. Michael McLindo, PF, D.CC

STATE OF MISSOURI

SHEET 1 OF 3

Energy Marketing
A tract of land being Lot 2 and Outlot A of McGrath Plaze, part of Lot 6 of the Subdivision of R. H. Sievens Farm and part of U. S. Survey 102, Township 45 North - Range 3 East, St. Louis County, Missouri 709 Marketing ' Prepared For: Energy

SILVER

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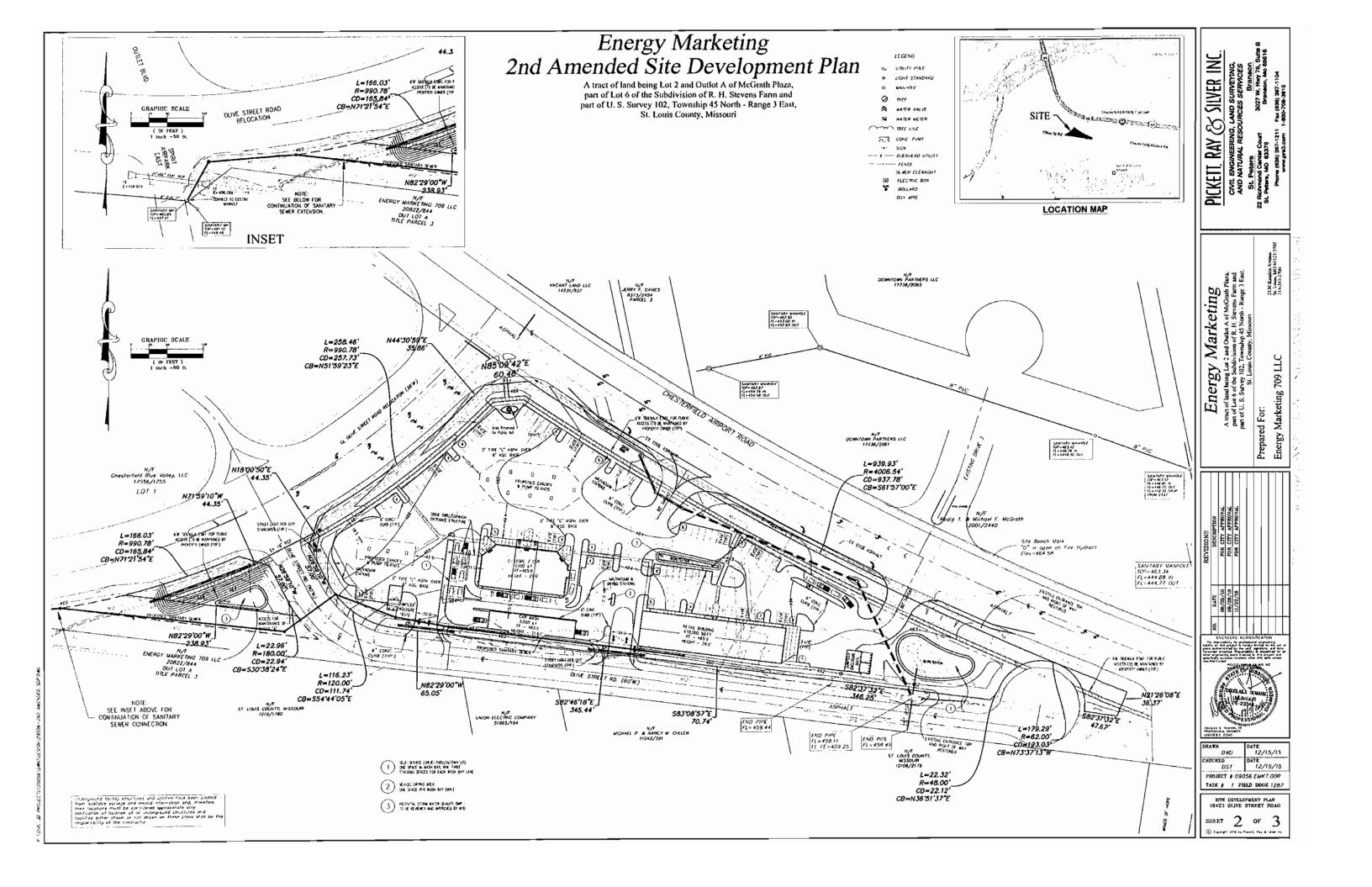
DATE /25/16 /25/16

DATE 12/15/15

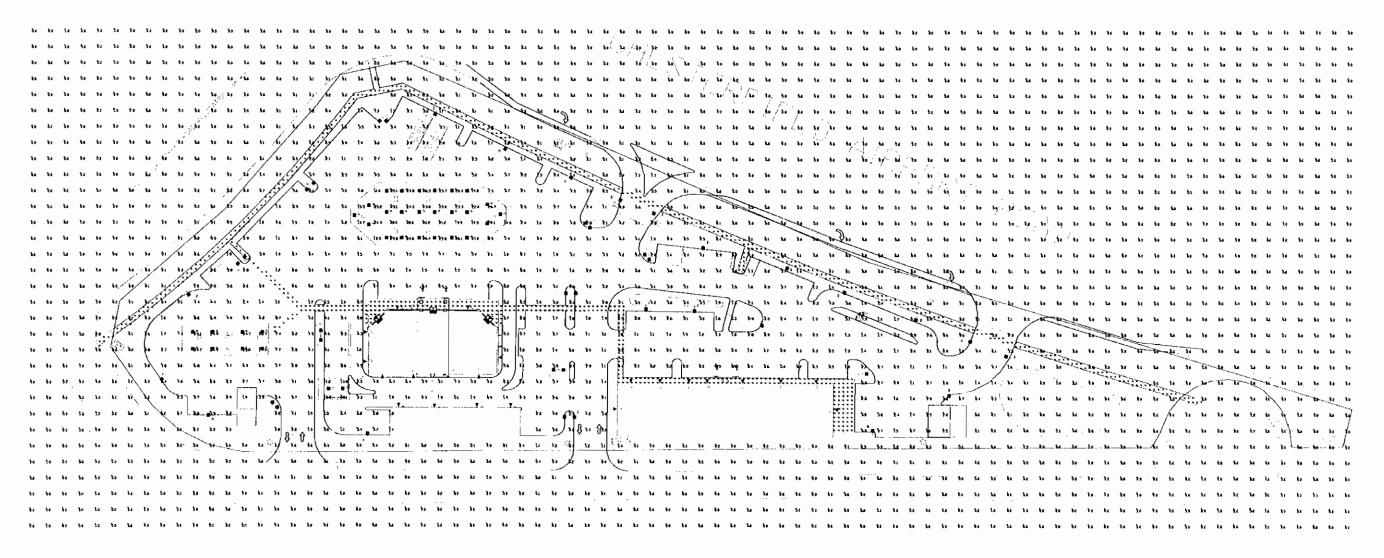
UMO 12/15/15

ED DATE

OST 12/15/15 PROJECT # 09056.EMKT.OOR TASK # | FIELD BOOK 128/



## Energy Marketing LIGHTING PLAN



Luminaire Sc	chedule							
Symbol	City	Lobel	Arrangement	Description	LLF	Lumens/Lonp	Arr Lum Lumens	Arr. Vatts
[+]	34	A	SINGLE	CRUS-SC-LED-VLV-CV	1000	NA	8842	78.7
1.1	17	9	SINGLE	XASU-FT-LED-64-HO-CW-HSS-SINGLE-18/POLE+2/BASE	1.000	NA.	6001	88
:	4	C	2 2 90 DEGREES	XASU-FT-LED-64-HD-CW-HSS-D90-18'PDLE+2'BASE	1.000	NA.	15005	176
[+] [+]	5	Ď	D180	XASU-F7-LED-64-HO-CW-HSS-DI80-18'PDLE+2'BASE	1 000	NA.	15005	176
11 11	i	٤	D180	XASU-FT-LED-64-HD-CW-D180-18-PDLE+2-BASE	1.000	N.A.	15312	178
[1]	4	f	SINGLE	XASU-5-LED-64-HD-CW-SINGLE-18'POLE+2'BASE	1.000	N.A.	7542	88
	24	G	SINGLE	XPVS3-VV-LED-28-350-CV-UE	1.000	N.A.	3161	34
1 3	2	H	SINGLE	PDL6K-LEB-08-40-WH MID @ 95' AIM CANDPY	1.000	N.A.	607	12.9

Calculation Sunnary							
Label	Calctype	Units	Avg	Max	Hin	Avg/M.n	Max/Min
ALL CALC POINTS	Itturinance	Fc	0 5 9	271	0.0	NA	NA
INTERIOR VALKVAYS	Huninance	Fc	366	11.7	0.2	19 30	58 50
PERINCTER WALKWAYS	lituninance	Fc	0.7B	60	0.0	NA	NA.
CAR WASH PAY CAMBRY SUMMARY	Ittuninance	Fc	15 (5	501	17.5	135	1.79
DIESEL CANDRY SUMMARY	Illuninance	Fc	51 93	25 0	121	1.67	2.07
GAS CANDPY SUMMARY	Illuminance	Fc	51 56	271	7.5	2.83	361
NORTH ENTRANCE/EXIT SUMMARY	Illuninance	Fc	3 39	66	00	NA .	N.A
PARKING AREA SUMMARY	Illuninance	Fc	2.59	8.0	01	25.90	80.00
SOUTH ENTRANCE/EXIT SUMMARY	Ittuminance	Fς	2 47	42	31	2 25	3.02

CRUS-SC-LED LED CANOPY LIGHT - LEGACY







XASU LED Area Light





XPWS3
LED Wall Mount Light





arcust AFN





Intel Project Vette

Ottol Vette - 7/27 599

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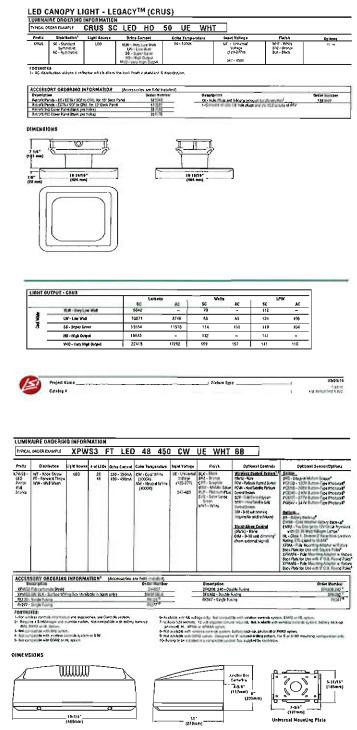
Albania Intel Intel

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Based on the information provided, all obnemials and lumnable totations shown represent recommended positions. The engineer analysis architect must observe the applicability of the layout to existing our future Feld condition.

this lighting gran represents illumnation levels calculated from laboratory data taken under controlled conditions in accordance with the liturianting Engineering Society (ES) approved nettods Actual performance of any nanufacturer's Lumianes may vary due to changes in execution voltage, tolerance in langual. Elife and other variable Field conditions Colculations on the Include obstructions such as lithings, curvos, languagelying, or any other architectural interests unless noted.





**BUILDING LIGHTS** 









LED AREA LIGHTS - AEROMAX<sup>TM</sup> SMALL (XASU)

Usurin YEARS. Places, serves on our missing a reason of the financial serves of the missing and the serves of the country, when annow amplifying a country of the property serves. KERGY SAVING CONTROL OPTIONS - OIM - 0-10 volt dimming enabled with cont

LEGS - Select high-brightness LEDs in Cool White (\$000K nominal) or Neutral White (4000k nominal) color temporature. 70 CRI (nominal).

DISTRIBUTION/PERFORMANCE - 1995. 3, F7 and 5, Exceptional uniformity creates bright on from and a bover boat levels, improved backfield outer infinitesis tight traper us. MOUSINE - On-these, develored, durinum, without-entitly housing contribution starty provinced driver and fields connections. Extraded one-plote EPOM gastride within social concerning the province of the prov

OPTICAL UNIT - Clear ferripared optical grade flat glass lens scaled to aluminoum optics housing creates on IPE7 ands, assisted optical with find solder pressure-substituting oracla Optical unit is received into housing codely and seed for the housing with a educate or pince EPDM gaster, Optical wind fungate serves dual purposes of safety and provides possible op undel between with and housing.

MOUNTING - Toparod new doubys allows fodering to be introduced in a quad pattern without me need for extension arms, Little vibbs "To allows defining petition or mounts and payars payars. A round policy patter (24789-25899) is required for mountaing to round publis. Wall mounts available by ordering wall mountaing tracket (848-240-4474--04.19). See Accession found regulation with first all baseline.

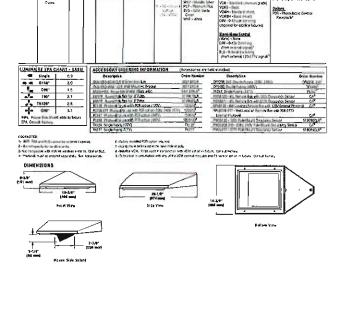
RESTRICAL - A terminal block for attactment of incoming primary viring is supplied. Two-slaps surply production (producing separate surply protection but not yet electronic driver) mental EEE CGL 1.2-4020. Location Carbayory C. Arabayor with viring viring viring power supply 16-2-27-Vac (Suitable Lorger), and 317-30-140. Copyright fundamental produced investigation is unfailed, Produced investigated in suitable. Produced investigate the confidence of producing a complex produced in suitable. Produced investigation is unfairly suitable to confidence of producing a complex produced in suitable.

ORIVER - Available in SS (Super Sover) and HO (High Outpet) time currents (Drive currents are factory programmed). Components are halfy encased in potting matternal for IPPS mosture resistance, Oriver complete with IEC and PCC standards. Oriver and key electronic components can easily be accessed.

OPERATING TEMPERATURE - -40°C to 150°C (-40°F to 1122°F).

PNOTOMETRICS - Please visit our web site at <u>www.lsuindustres.com</u> for detailed photometric data, SNIPPING WEGINT (In carlon) - 31 lbs. / 14.1 Kg

LISTING - ETL issed to U.S. and International safety standards. Suhable for well countions, For a list of the specific products in olds series that are OLC listed, pictus consult the LEO Lighting section of our website or the Design Lights website at www.designinghts.org.



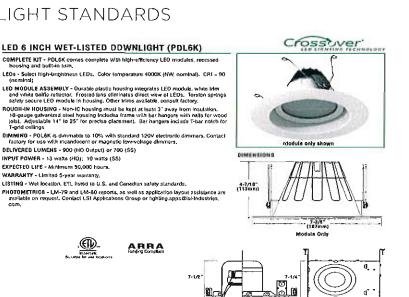
LED AREA LIGHTS - AEROMAXTM SMALL (XASU)
TUMIKAIRE ORDERING INFORMATION

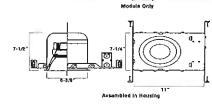
TYPICA ORGENERALE XASU FT LED 84 HO CW UE WHT PCR





LISTING - Wel location, ETL fisted to U.S. and Cenedian safety standards





CALICAT DEBEK EXYX	eu. PDL	6K LED	но	NW	120
Риопи	Light Source	Lumes Optysel	-	iolós Temp	Line Yeltag
				tral White (4000)	0 129 - 129 V

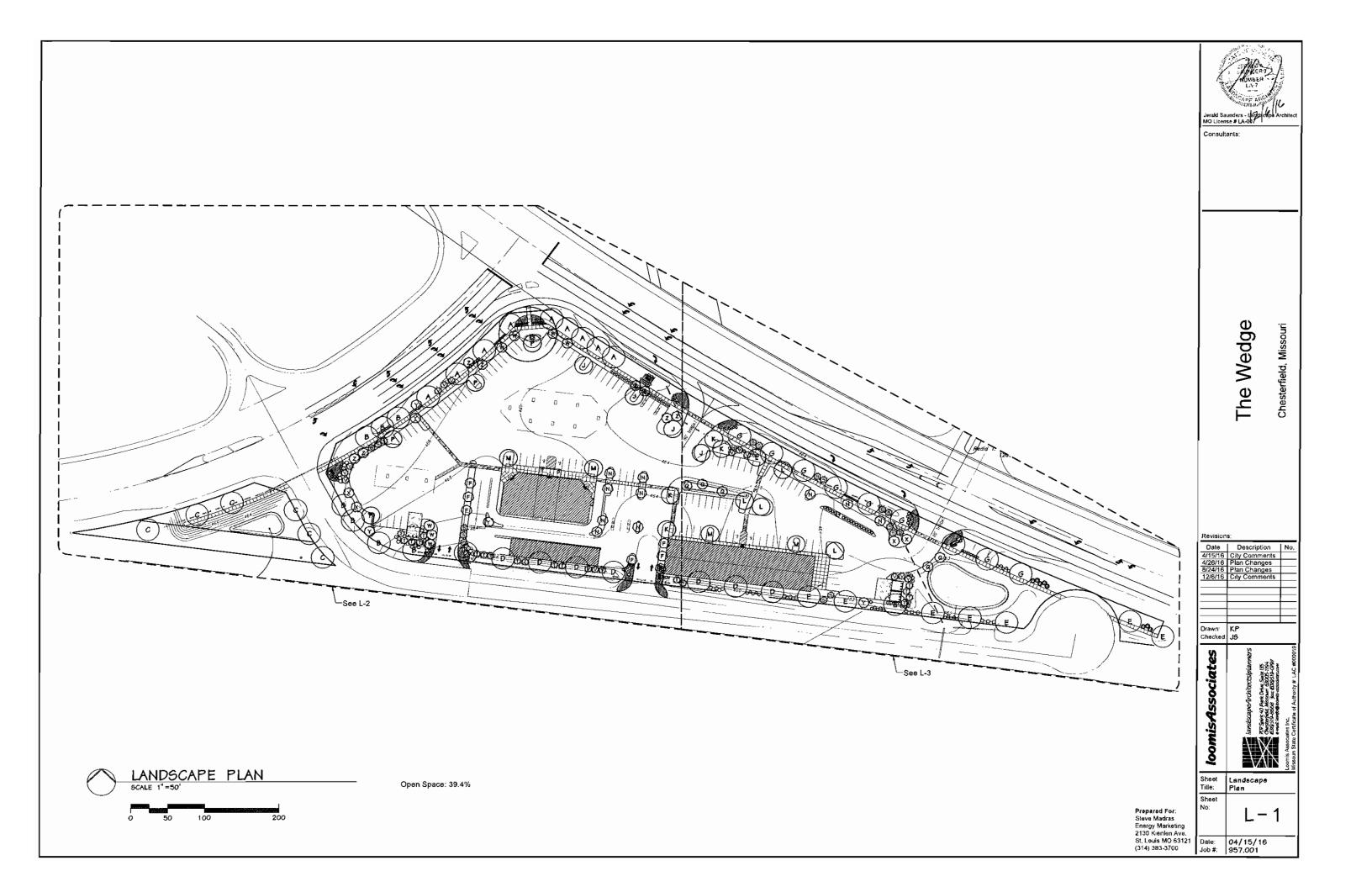
ARRA Purdice Complant

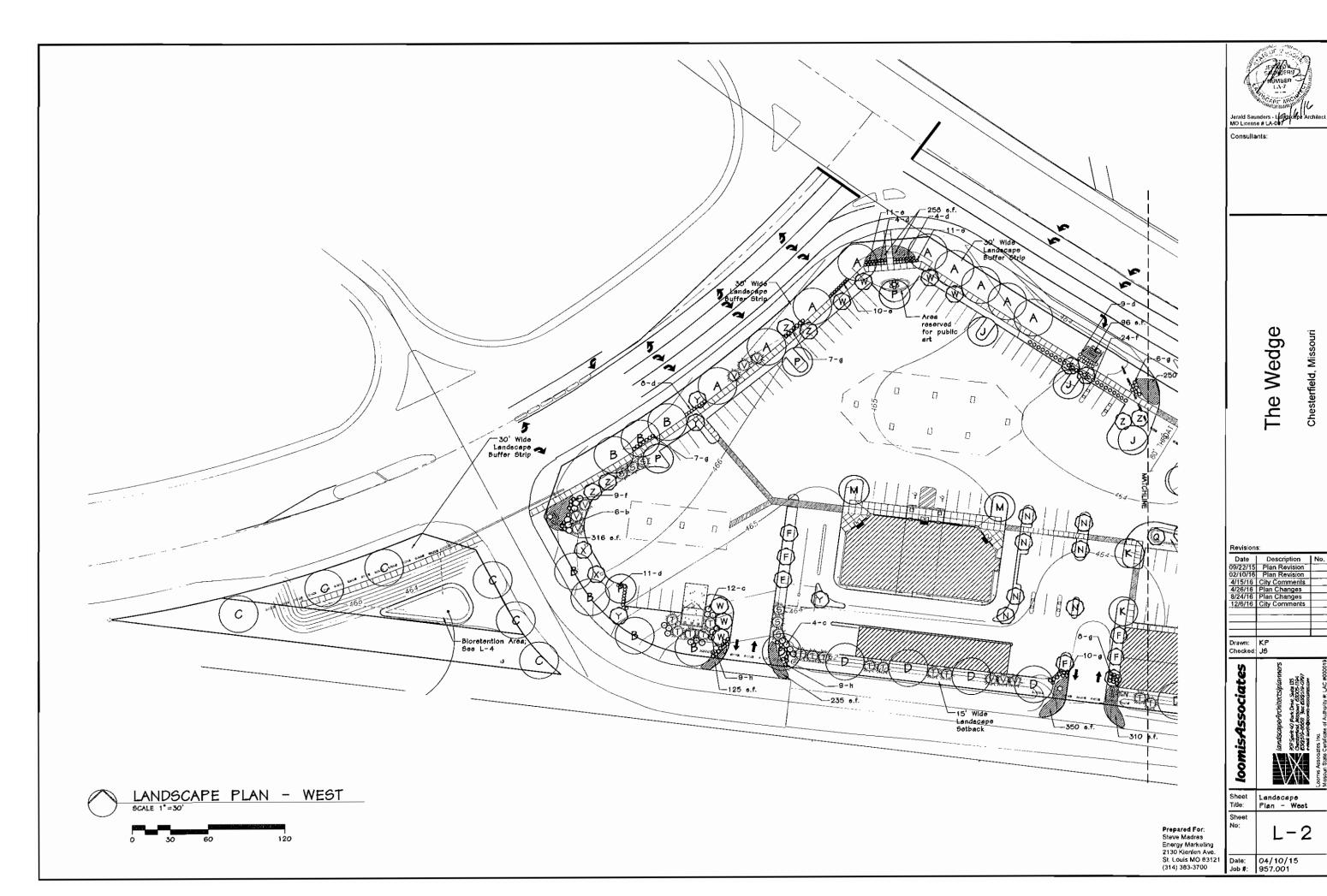


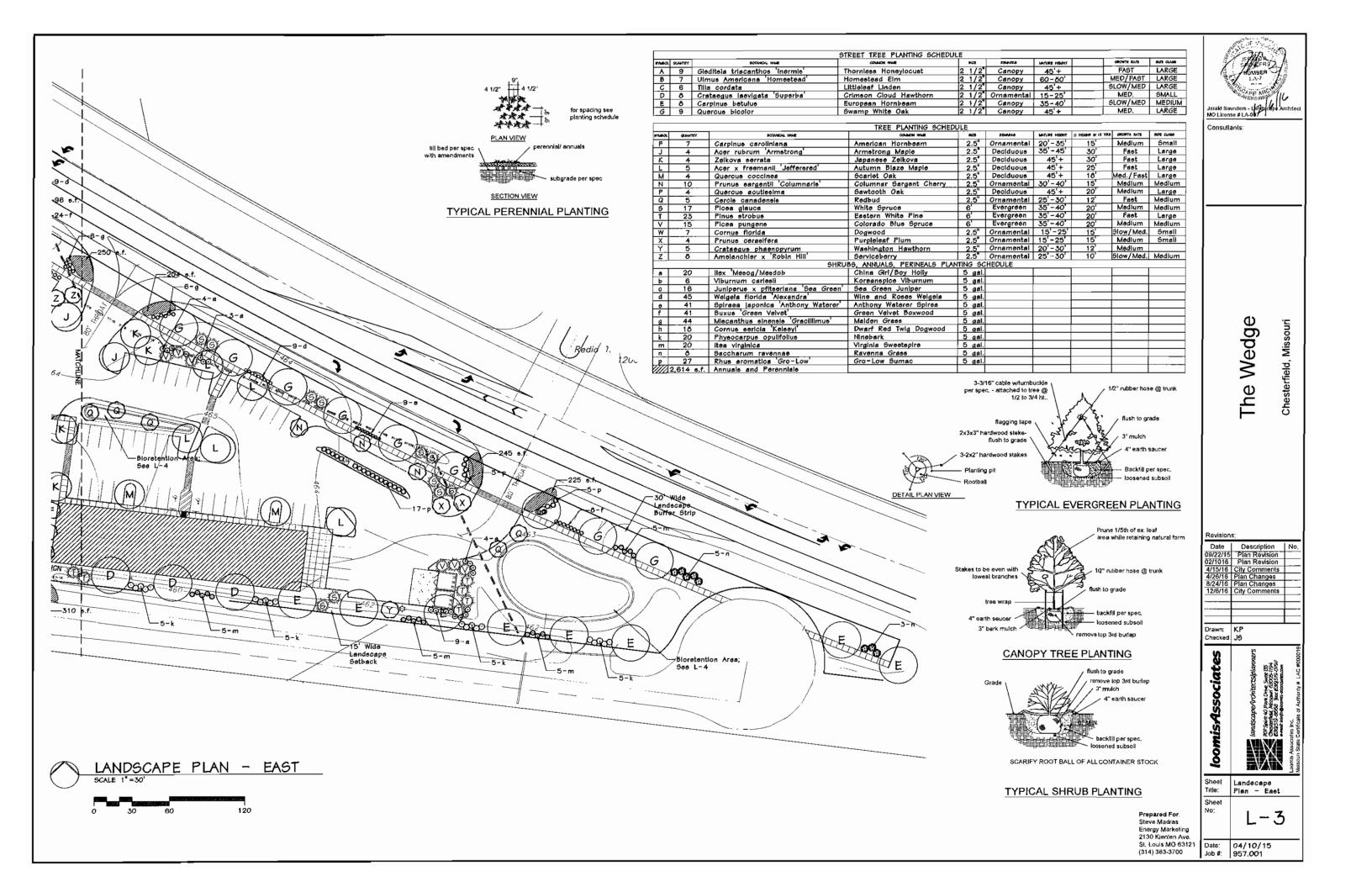
ATM LIGHTS

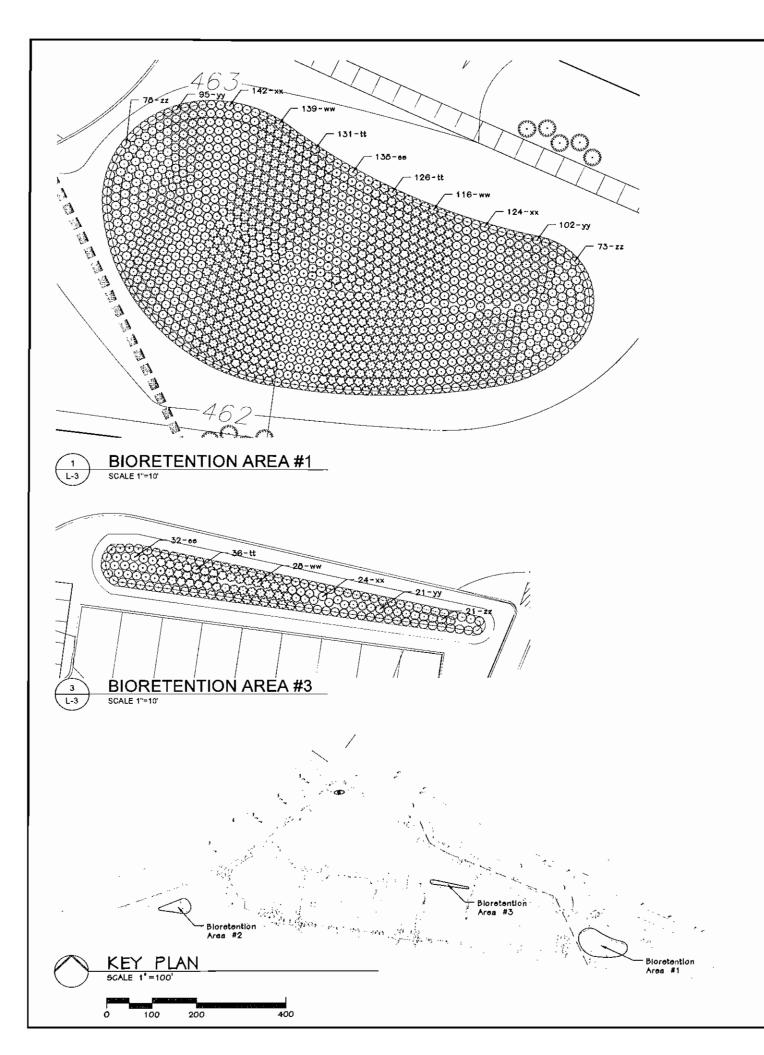


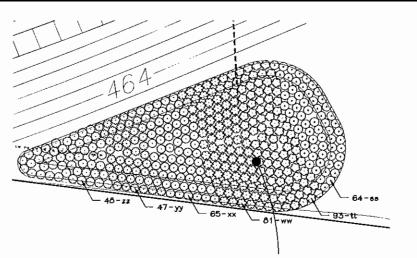




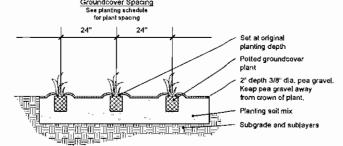








**BIORETENTION AREA #2** 



- 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" lendecape bed mix plue surface mulch.

#### BIORETENTION PLANT SPACING SECTION

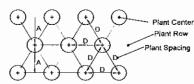
#### TABLE 1: PLANTING, WATER, AND MULCH REQUIREMENTS

	THE PROPERTY OF THE				
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 FebApril only	2.25"x3.75" or larger (plug)	Water each plug Immediately after planting		1.5* for pluge
Manual watering with etandard eprinkler	Late FebEarly June SeptOctober	4.5"x5" (quart) or larger in summer and fall	1" (60 min) every 4 daye	1° (60 min) every 7 daye until plante established***	1.5" for pluge 2.5" for quarte
Autometic irrigation (set to weter 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 summer and fall	1" (60 min) every 4 days in spring and fall 1" (60 min) every 3 days in summer)	1" (60 mln) every 7 days until plants established***	1.5" for plugs 2.5" for quarts

\*This water amount includes natural rainfall. If you get a 1 inch of natural rain, then you will need to add a 1 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 personale and grasses and up to 6-7 months for trees and shrubs.

\*\*\*\*Shreaded leaf compost is recommended for use with personale and grasses. Mulch is recommended for tree and shrub plantings at a depth of 3 inches.



#### BIORETENTION PLANT SPACING

PLANT SPACING	TABLE	
SPACING 'D'	ROW 'A'	NUMBER OF PLANTS/SQ.FT.
30"	26 <b>"</b>	.16
24"	20.8	.25
18"	15.6"	.45
15"	13"	,64
12"	10.4"	1.00
10"	8.66"	1.44
GH	6.03"	2.25

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

			NTION PLANTING SCHEDULE		
BIO	RETENT	TON PLANTS			
SYLBOL	<b>GENNUTY</b>	POLINICAT HATE	COMMON HAME	6/ZE	KBANKA
56	234	Chasmanthlum latifollum	River Oate	Type 38 DCP	24 o.c.
tt	386	Juncus effusus	Common Rush	Type 38 DCP	24 o.c.
ww	364	Carex vulpinoldea	Fox Sedge	Type 38 DCP	24 0.0
xx	355	Lobella cardinatis	Cardinal Flower	Type 38 DCP	24 0.0
УУ	265	Carex muskingumensis	Palm Sedge	Type 38 DCP	24° o.c.
ZZ	220	Irlə fulva	Copper Irle	Type 38 DCP	24° o.c.

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



The Wedge

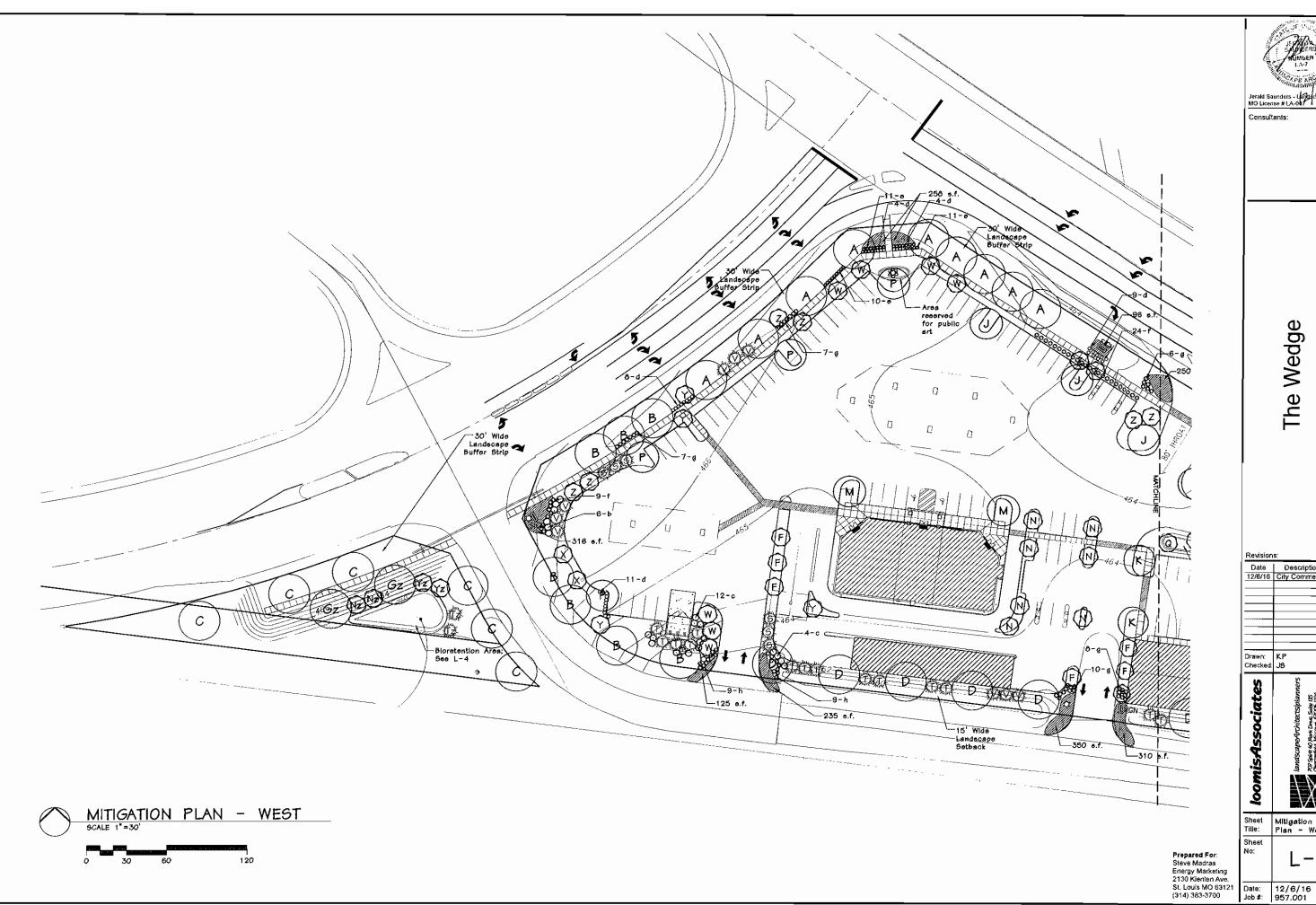
Chesterfield, Missouri

Date Description
4/15/16 City Comments 4/15/16 City Comments 4/26/16 Plan Changes 8/24/16 Plan Changes Drawn: KP Checked J5

loomisAssociates

Sheet Titte: Bloretention Planting Plan Sheet L-4

Date: 02/10/16



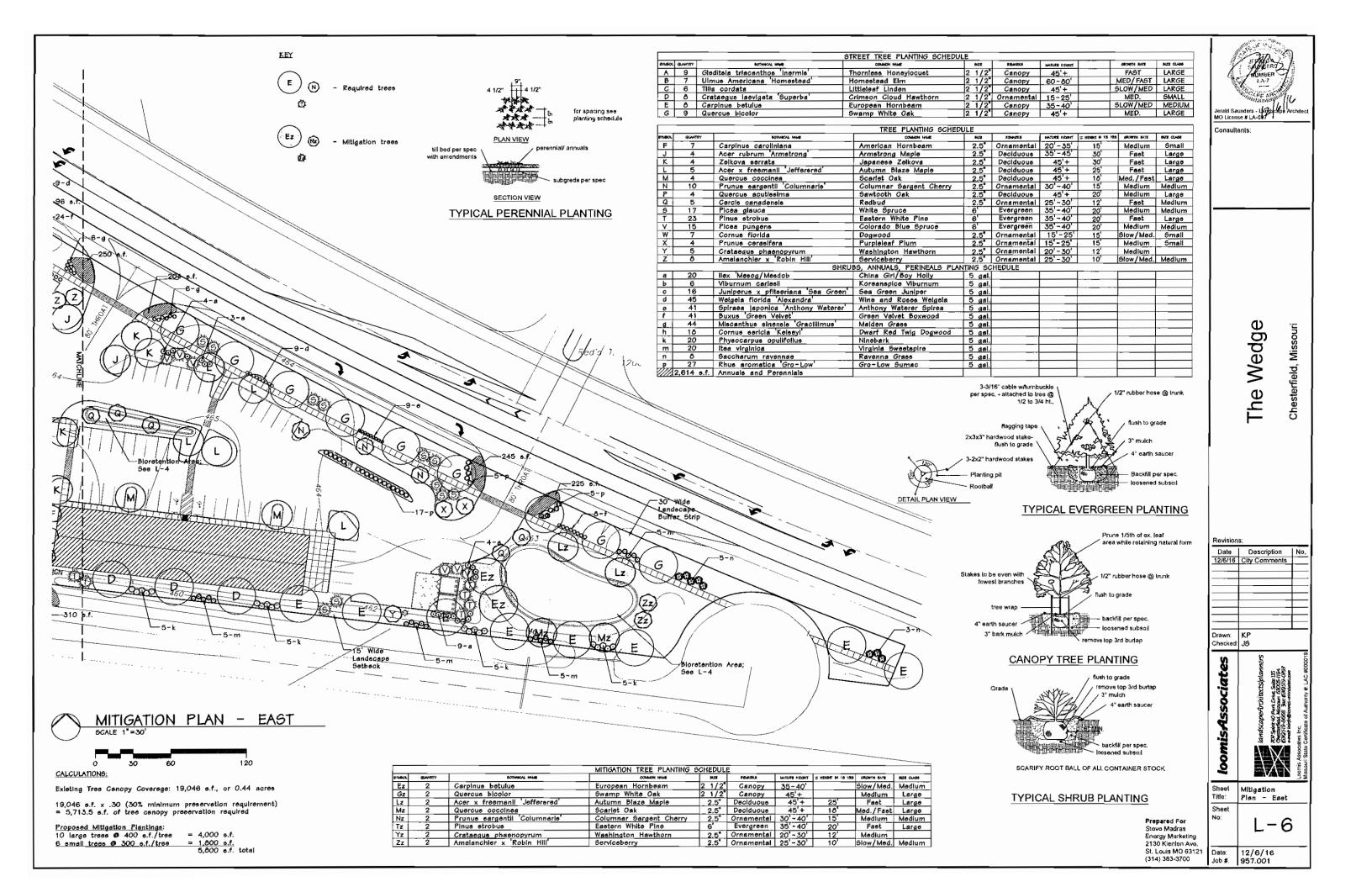
The Wedge

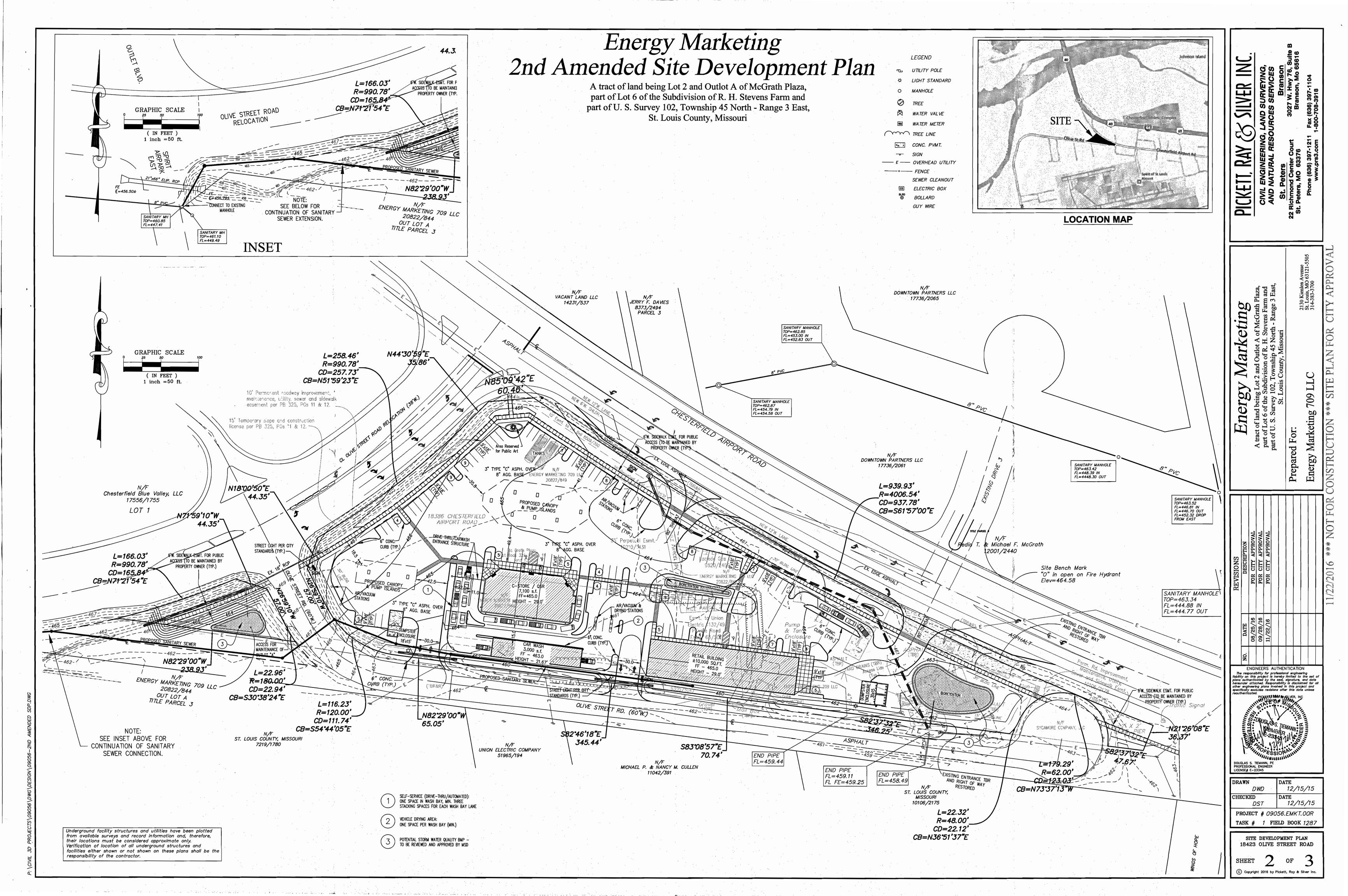
Chesterfield, Missouri

Date	Description
12/6/16	City Comments
Drawn:	KP
Checked	Js
	-
16	۲

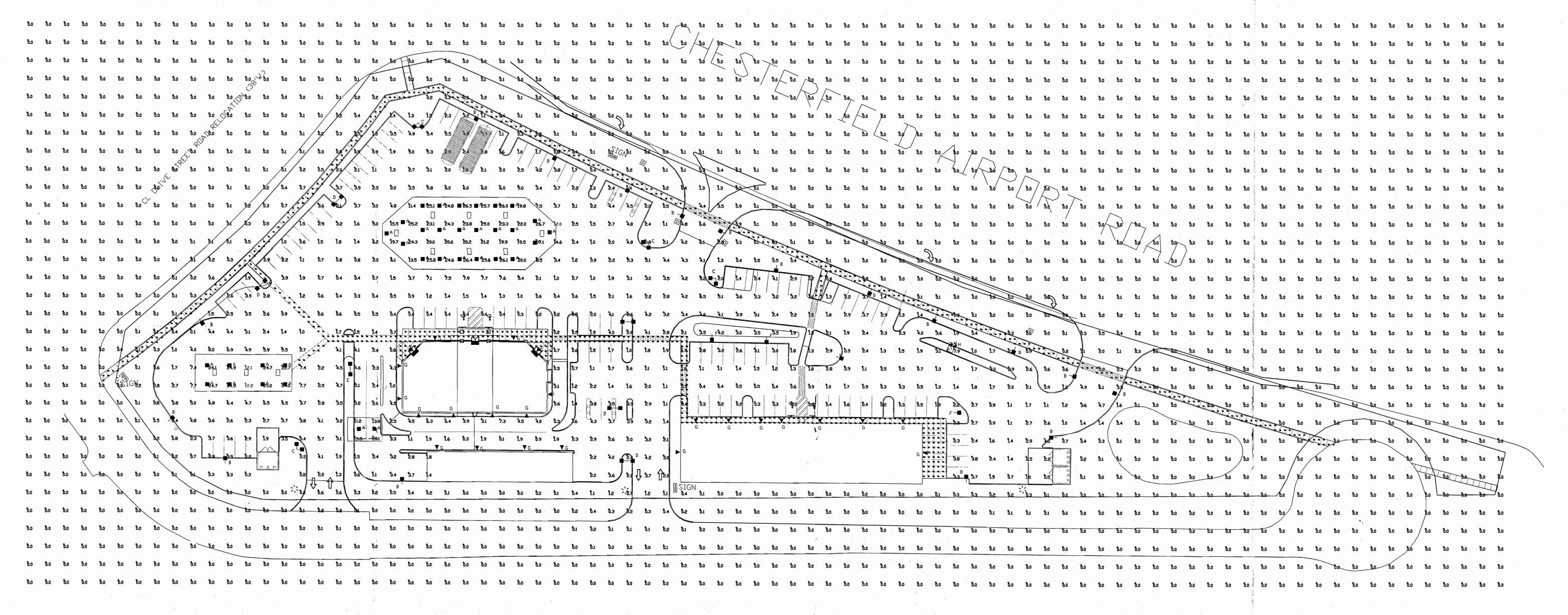
Mitigation Plan - Weet

L-5





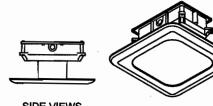
# Energy Marketing LIGHTING PLAN



Luminaire Sch	edule					<i>J</i>	<u> </u>	
Symbol	Qty	Label	Arrangement	Description	LLF	Lumens/Lamp	Arr. Lum. Lumens	Arr. Watts
	34	Α	SINGLE	CRUS-SC-LED-VLW-CW	1.000	N.A.	8842	78.7
	17	В	SINGLE	XASU-FT-LED-64-HD-CW-HSS-SINGLE-18'PDLE+2'BASE	1.000	N.A.	6001	88
*	4	С	2 @ 90 DEGREES	XASU-FT-LED-64-HD-CW-HSS-D90-18'PDLE+2'BASE	1.000	N.A.	12002	176
	5	D	D180	XASU-FT-LED-64-HD-CW-HSS-D180-18'PDLE+2'BASE	1.000	N.A.	12002	176
	1	E	D180	XASU-FT-LED-64-HD-CW-D180-18'PDLE+2'BASE	1.000	N.A.	15312	178
	4	F	SINGLE	XASU-5-LED-64-HD-CW-SINGLE-18'PDLE+2'BASE	1.000	N.A.	7542	88
	24	G ·	SINGLE	XPWS3-WW-LED-28-350-CW-UE	1.000	N.A.	3161	34
	2	Н	SINGLE	PDL6K-LED-08-40-WH MTD @ 9.5' ATM CANDPY	1.000	N.A.	607	12.9

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ALL CALC PDINTS	Illuminance	Fc	0.99	27.1	0.0	N.A.	N.A.
INTERIOR WALKWAYS	Illuminance	Fc	3.66	11.7	0.2	18.30	58.50
PERIMETER WALKWAYS	Illuminance	Fc	0.78	6.0	0.0	N.A.	N.A.
CAR WASH PAY CANDPY SUMMARY	Illuminance	Fc	15.15	20.1	11.2	1.35	1.79
DIESEL CANDPY SUMMARY	Illuminance	Fc	21.93	25.0	12.1	1.81	2.07
GAS CANDPY SUMMARY	Illuminance	Fc	21.26	27.1	7.5	2.83	3.61
NORTH ENTRANCE/EXIT SUMMARY	Illuminance	Fc	3.39	6.6	0.0	N.A.	N.A.
PARKING AREA SUMMARY	Illuminance	Fc	2.59	8.0	0.1	25.90	80.00
SOUTH ENTRANCE/EXIT SUMMARY	Illuminance	Fc	2.47	4.2	1.1	2.25	3.82

CRUS-SC-LED LED CANOPY LIGHT - LEGACY

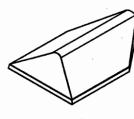








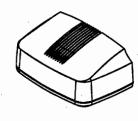
XASU LED Area Light

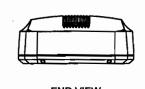






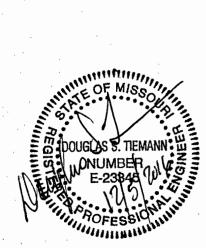
XPWS3 LED Wall Mount Light











Total Project Total Watts =		
	A STENEOU	Inclustries  Inclustries  Inclustries  Wision  For the Future  For company to the sea
LIGHTING PR	ROPOSAL	LD-126601-9
ENERGY EXPRES	<del>-</del>	

DATE:3-24-15 REV:9-16-16

CHESTERFIELD,MO

SCALE: 1'=40'

This lighting plan represents illumination levels calculated from laboratory data

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.

taken under controlled conditions in accordance with The Illuminating Engineering Society (IES) approved methods. Actual performance of any manufacturer's luminaires may vary due to changes in electrical voltage, tolerance in lamps/LED's and other variable field conditions. Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted.

### 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 incandecent or magnetic low-voltage dimmers.

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

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

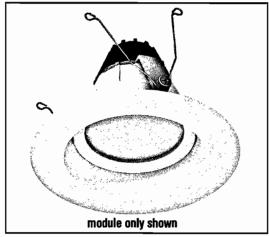
EXPECTED LIFE - Minimum 50,000 hours.

WARRANTY - Limited 5-year warranty.

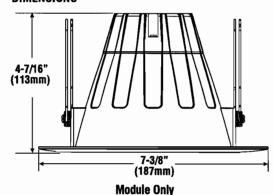
LISTING - Wet location. ETL listed to U.S. and Canadian safety standards.

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.



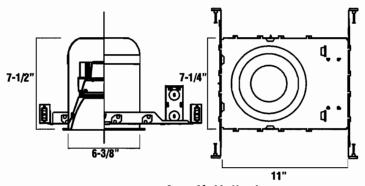


#### **DIMENSIONS**









**Assembled in Housing** 

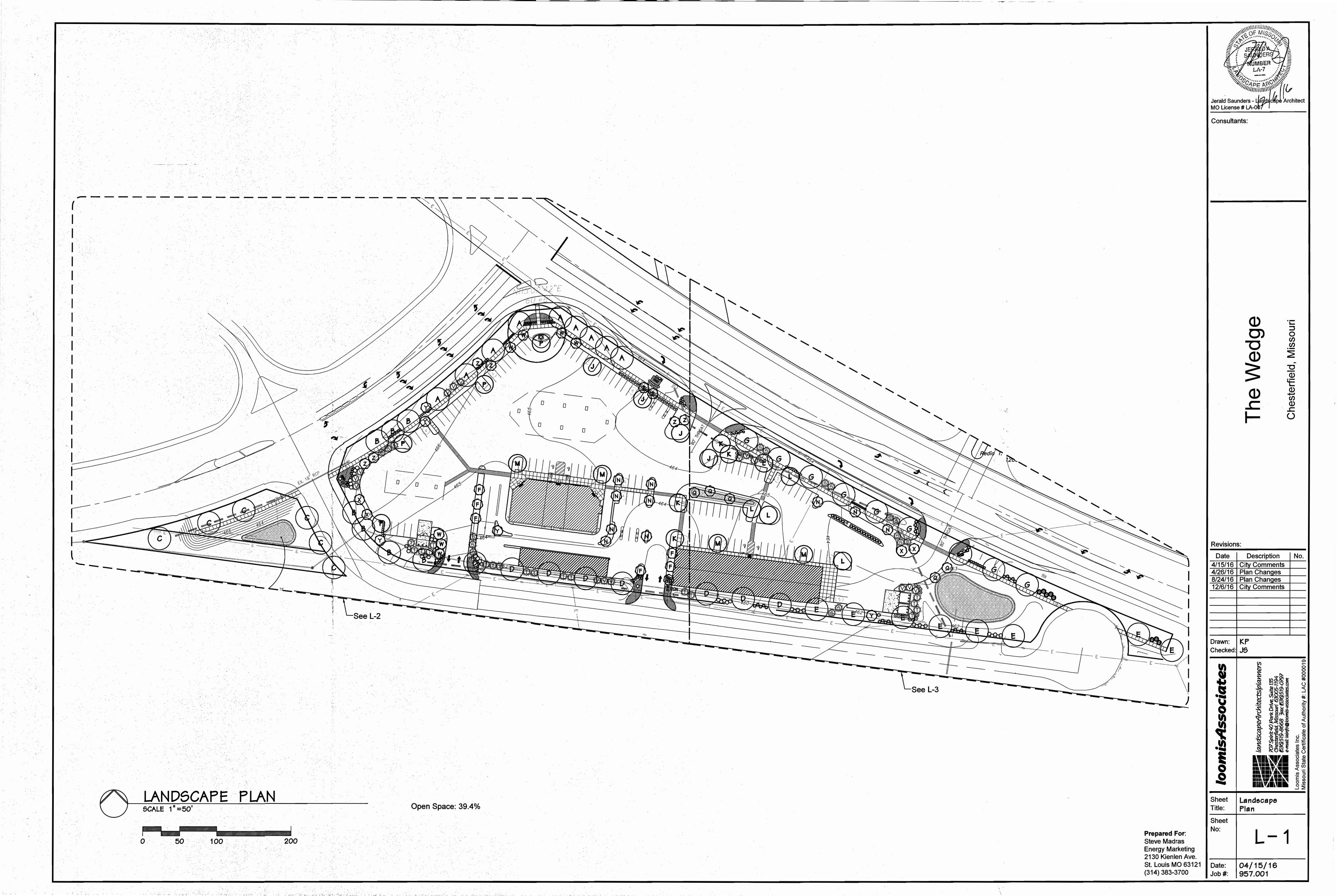
#### ORDERING INFORMATION

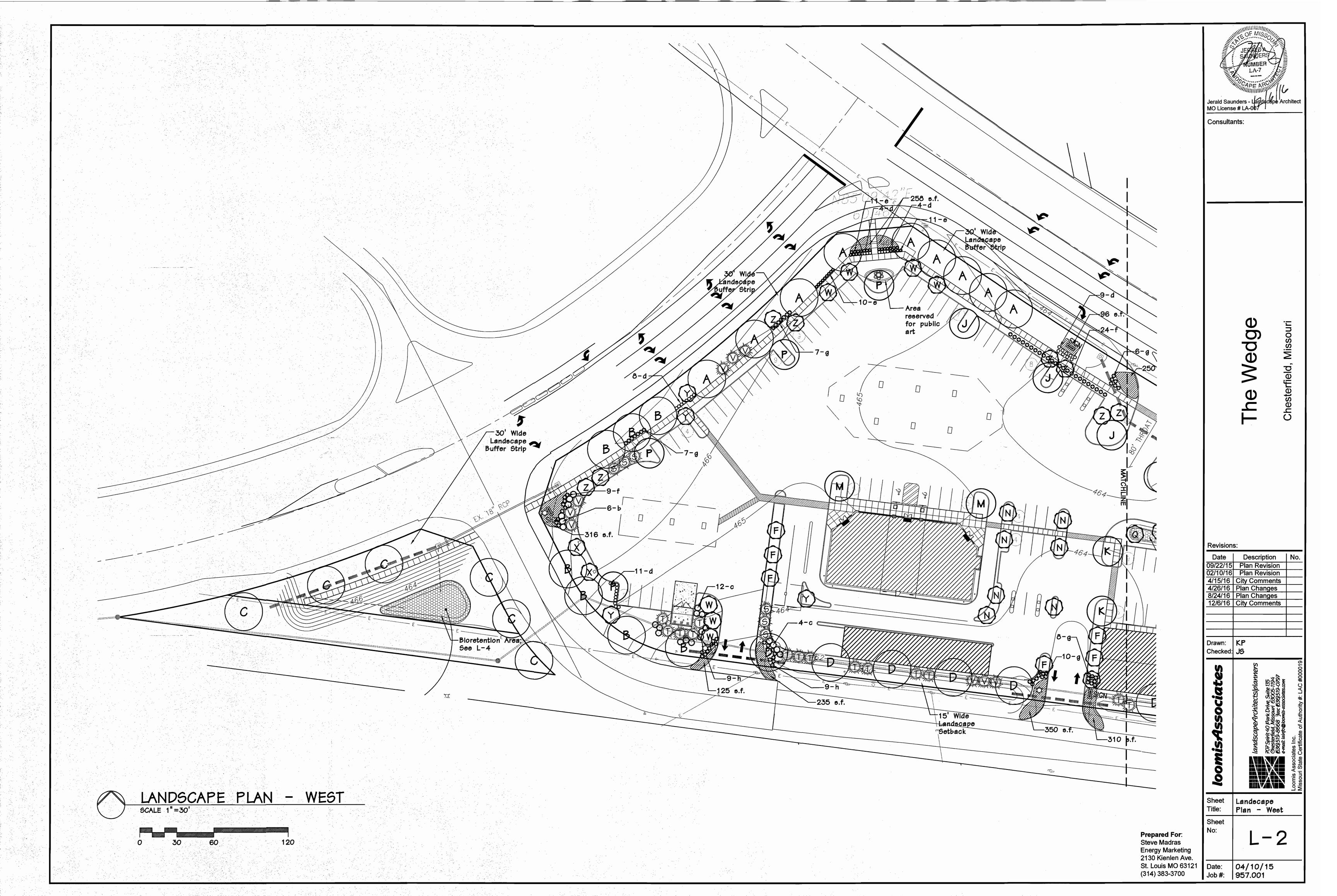
TYPICAL ORDER EXAMPLE: PDL6K LED HO NW 120

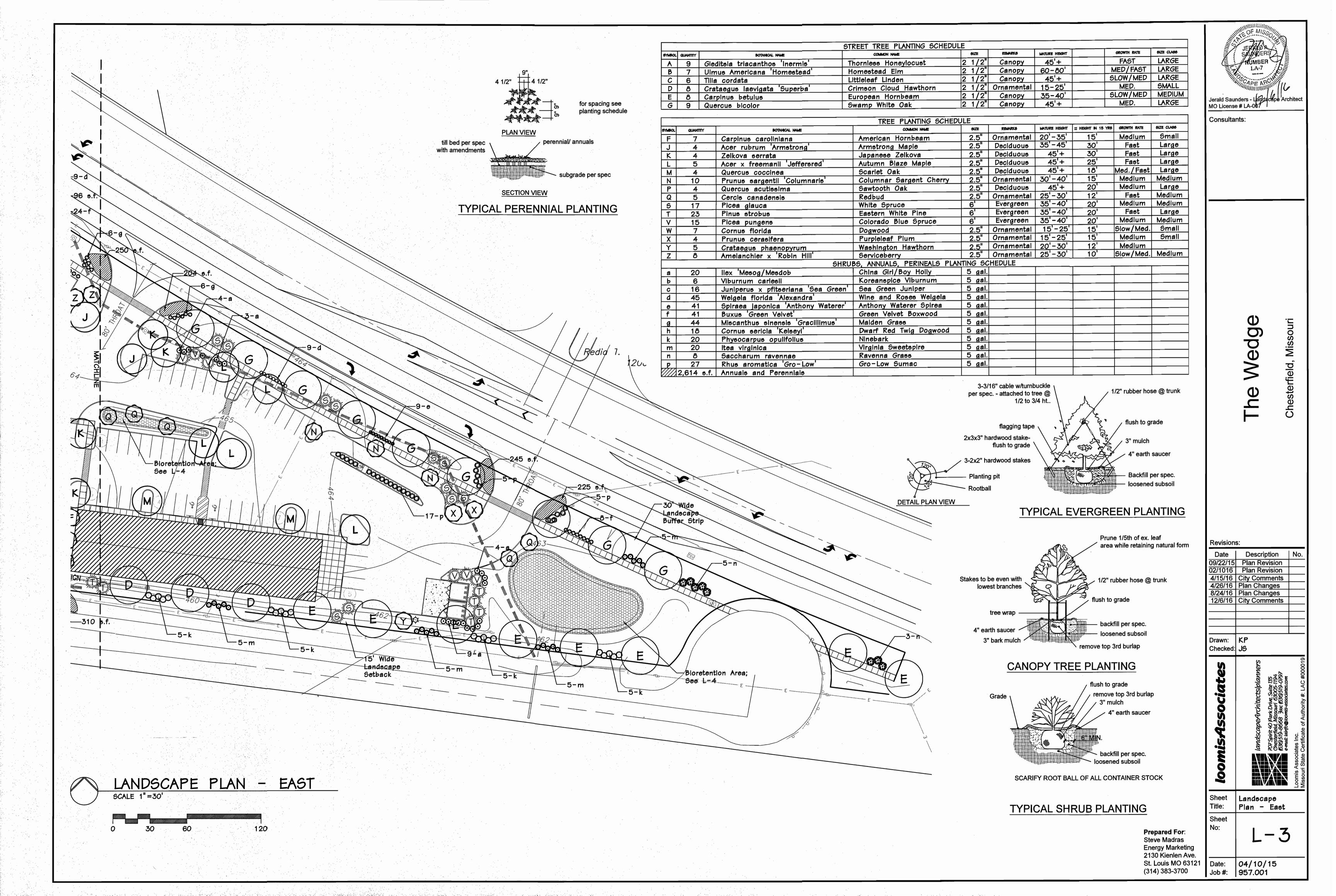
Prefix	Light Source	Lumen Output	Color Temp	Line Voltage
PDL6K - 6" Downlight (Module & housing)	LED	HO - High Output SS - Super Saver	NW - Neutral White (4000K)	120 - 120 VAC

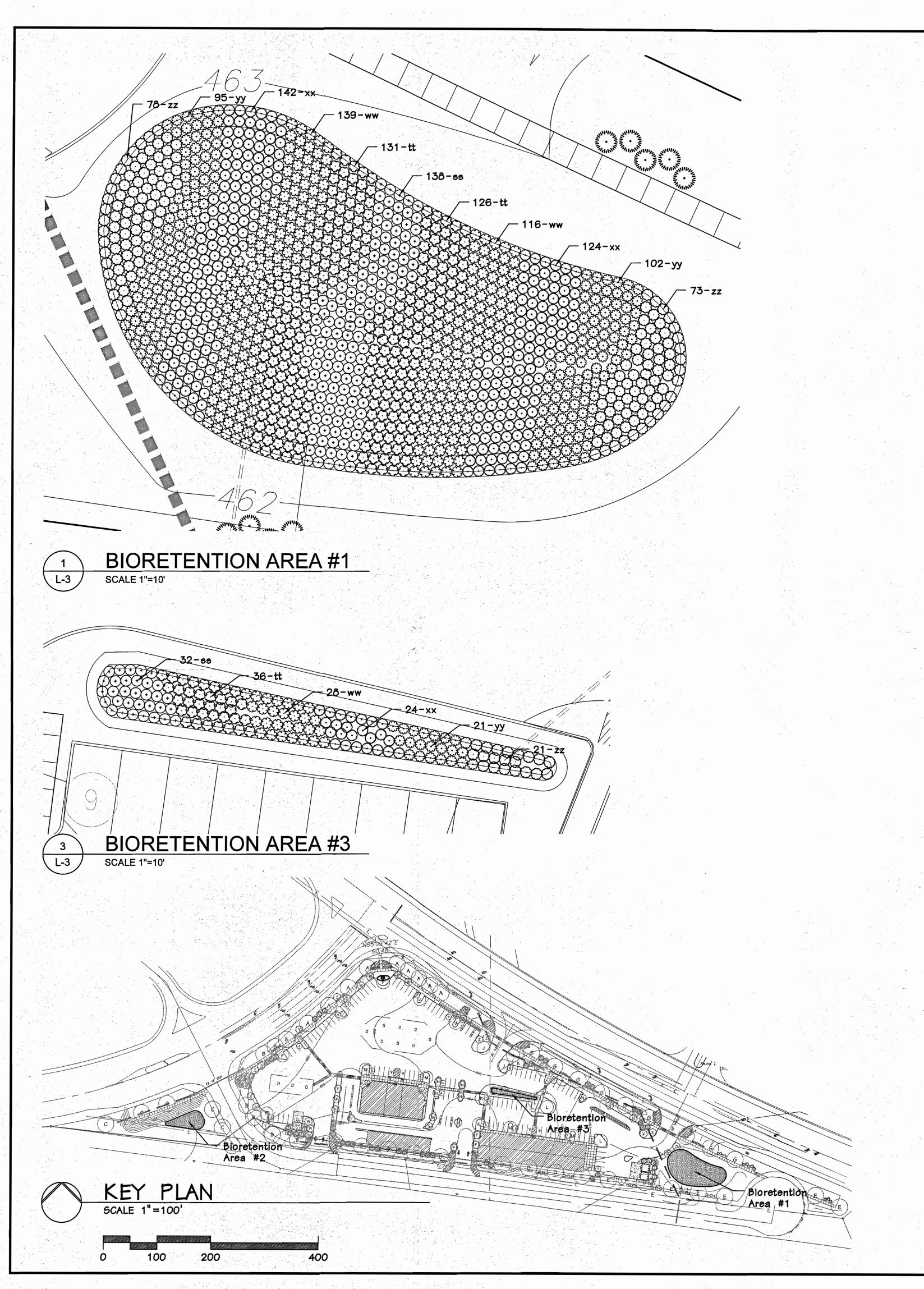


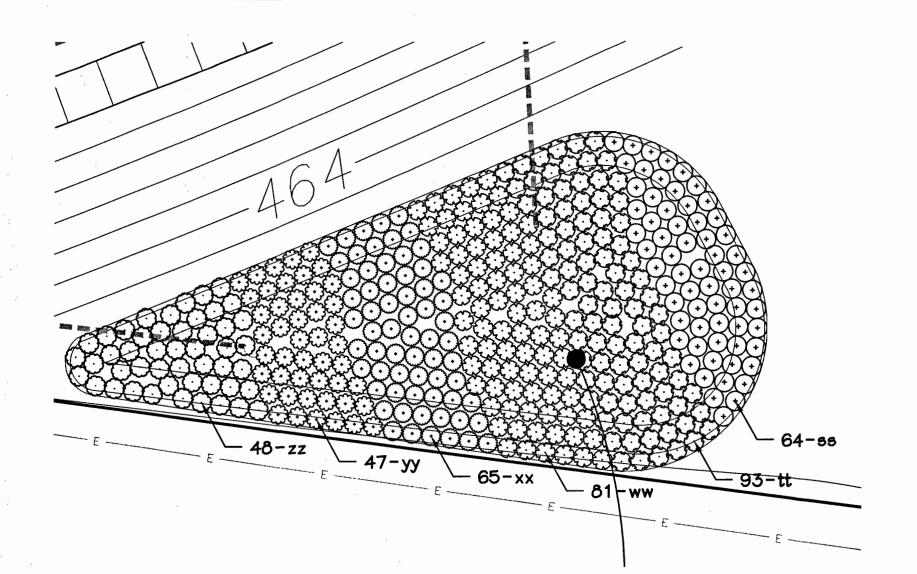
Project Name \_\_\_\_\_\_ Fixture Type \_\_\_\_\_\_\_











# **BIORETENTION AREA #2** SCALE 1"=10'

**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.

- Notes:
  1. Remove spent 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

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 FebApril only	2.25"x3.75" or larger (plug)	Water each plug Immediately after planting		1.5" for plugs
Manual watering with standard sprinkler	Late Feb. – Early June Sept. – October	4.5"x5" (quart) or larger in summer and fall	1" (60 mln) every 4 days	1" (60 min) every 7 days until plants established***	1.5" for plugs 2.5" for quarts
Automatic Irrigation (set to water more frequently than normal during first two months after planting)	Late Feb Early Oct.	2.25"x3.75" (plug) or larger in spring 4.5"x5" (quart) or larger in summer and fall	1" (60 mln) 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 plugs 2.5" for quarts

\*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.

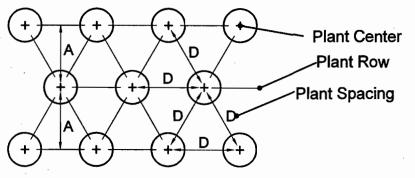
\*\*Requires transport of water to the planting site in large containers and pouring enough water onto each plant (after planting) to

moisten the entire planting pit.

\*\*\*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.

\*\*\*\*Shredded leaf compost is recommended for use with perennials and grasses. Mulch is recommended for tree and shrub plantings at a depth of 3 inches.

## PLANT SPACING TABLE



# **BIORETENTION PLANT SPACING**

ROW 'A'	NUMBER OF PLANTS/SQ.FT.
26"	.16
20.8"	.25
15.6"	.45
13"	.64
10.4"	1.00
გ.66"	1.44
6.93"	2.25
	26" 20.8" 15.6" 13" 10.4" 8.66"

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

		BIOF	RETENTION PLANTING SCHEDULE		
<u> BIO</u>	<b>RETEN1</b>	TION PLANTS			
MBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
35	234	Chasmanthium latifolium	River Oats	Type 38 DCP	24" o.c.
tt	386	Juncus effusus	Common Rush	Type 38 DCP	24" o.c.
vw	364	Carex vulpinoidea	Fox Sedge	Type 38 DCP	24" o.c
<b>(Χ</b>	355	Lobelia cardinalis	Cardinal Flower	Type 38 DCP	24" o.c.
уу	265	Carex muskingumensis	Palm Sedge	Type 38 DCP	24" o.c.
zz	220	Iris fulva	Copper Iris	Type 38 DCP	24" o.c.

Prepared For: Steve Madras **Energy Marketing** 2130 Kienlen Ave.

Jerald Saunders - Landscape Architect MO License # LA-007

Consultants:

Wedge

Revisions: Description 4/15/16 City Comments 4/26/16 Plan Changes 8/24/16 Plan Changes Drawn: KP

Checked: JS

loomisAssociates

Bloretention Title: Planting Plan Sheet

L-4

St. Louis MO 63121 Date: 02/10/16 (314) 383-3700 Job #: 957.001

