



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

Planning Commission Staff Report

| Project Type: Site | e Development Plar |
|--------------------|--------------------|
|--------------------|--------------------|

Meeting Date: July 23, 2018

From: Cassie Harashe, Planner

Location: 14905 Clayton Road

Description: <u>Mobil Mart at Baxter and Clayton (Brite Worx)</u>: A Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 1.72 acre tract of land zoned "PC" Planned Commercial District located on the western corner of the intersection of Clayton Road and Baxter Road.

PROPOSAL SUMMARY

The request is for a Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations and an Architect's Statement of Design for a new 4,020 square foot stand-alone carwash facility at 14905 Clayton Road. The proposed building is to be constructed of EIFS and brick veneer with a stone base and a clear acrylic roof system. Accents include metal fascia, exposed steel ribbing, and clear glass windows. The subject site is zoned "PC" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield <u>Ordinance 2977</u>.



Figure 1: Site Photo

STAFF ANALYSIS

The Site Development Plan was reviewed at the July 9, 2018 Planning Commission meeting. At that time, there was discussion regarding the height of the screening wall around the buttonhook, as shown in Figure 2. The Commission requested to see section views of the site. The applicant has provided section views with sight lines that include both a 6' fence, as required by the site specific ordinance, and a taller 8' fence as requested by the Planning Commission.

The Site Development Plans still reflect a 6' wall. If the Planning Commission recommends approval with an 8' wall, the plans will be revised prior to the Planning and Public Works Committee Meeting.

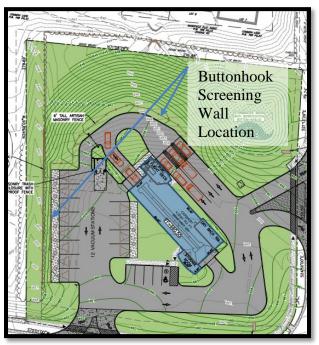


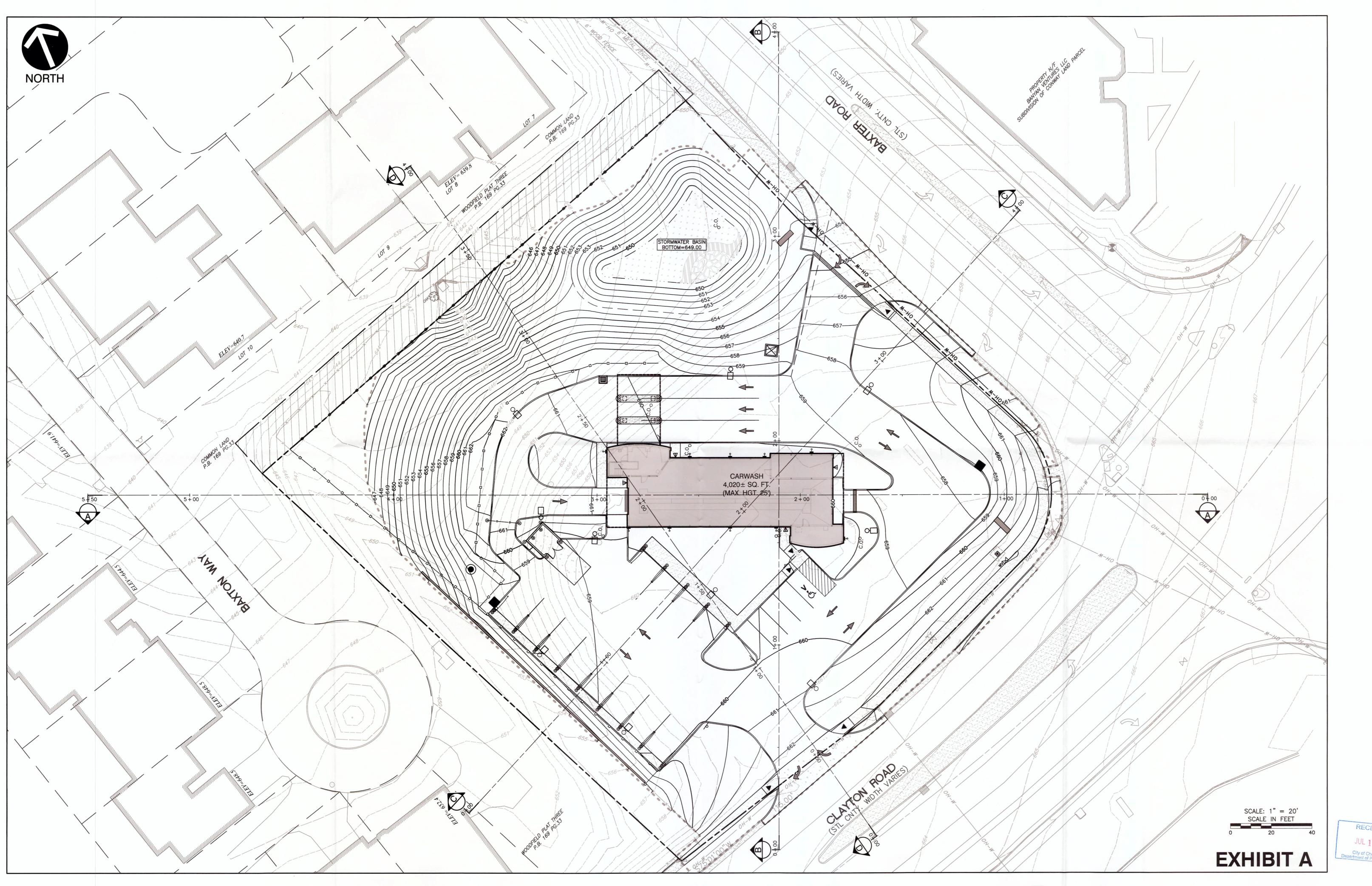
Figure 2: Buttonhook Screening Wall Location

There was also considerable discussion regarding the accessory structures such as the vacuum balls and sun shades. The discussion resulted in a request that the applicant provide additional colors for these elements.

In response the applicant has submitted a different vacuum station that eliminates the ball element and the shade structure element. The new proposed vacuum stations will be placed on the stripe lines of the parking spaces and be 10' tall. The applicant is requesting the poles be blue. They have provided photos of the new vacuum station design. These are included with this report.

Attachments: Section Views

Proposed Vacuum Station Elements July 9, 2018 Planning Commission Staff Report Site Development Plan Tree Stand Delineation & Tree Preservation Plan Landscape Plan Lighting Plans & Cut Sheets Architect's Statement of Design Architectural Elevations Site Elements Renderings Night Photos of Columbia, IL location Emails from Residents



RECEIVED JUL 17 2018 City of Chesterfield Department of Public Services

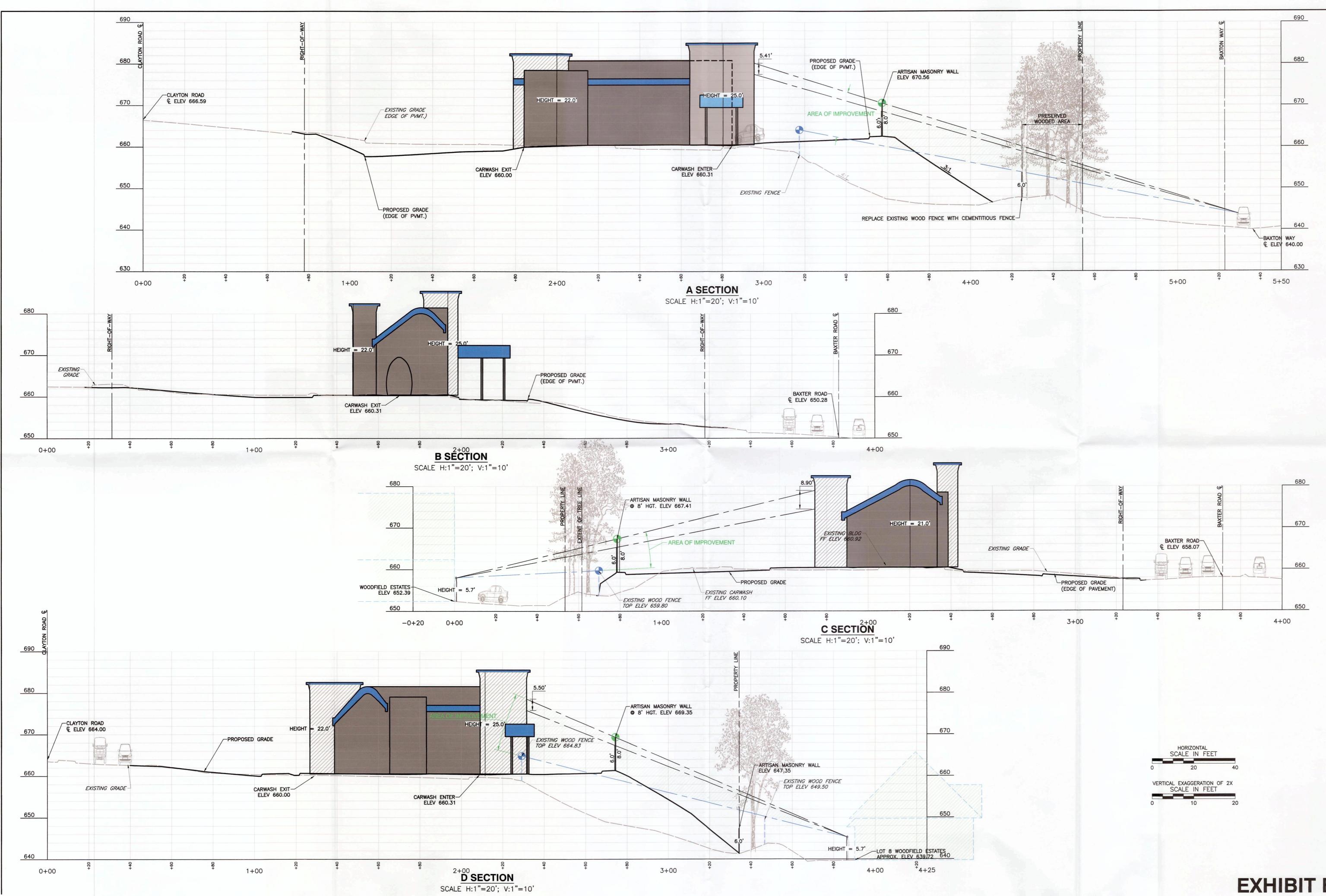


EXHIBIT B

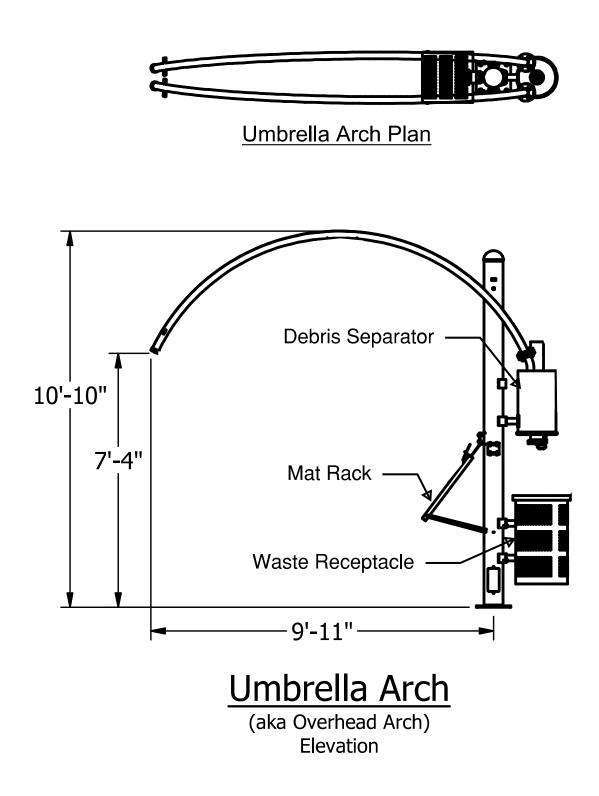
VACUUM STATIONS



TYPE: PROPOSE 'UMBRELLA' ARCH (PHOTO ON THE LEFT) WITH POWDER COATED POSTS, ARCHES, AND OPTIONS IN BLUE *SIMILAR* TO THE PHOTO ON LEFT *BUT* USING THE SAME COLOR AS THE BLUE ACCENT ON THE BUILDING.

NOTE:

- IN THE LEFT PHOTO, WE ARE PROPOSING TO SWAP ALL THE YELLOW FEATURES WITH THE BUILDING'S BLUE ACCENT COLOR BUT WITHOUT A CANOPY CLOTH
- THE PHOTO ON RIGHT SHOWS THE 'PALM' ARCH, NOT THE 'UMBRELLA' ARCH WE ARE PROPOSING, BUT SHOWS THE STATIONS W/O A CANOPY CLOTH USING *SIMILAR* COLORS *EXCEPT* WE ARE PROPOSING *ALL* BLUE (IN LIEU OF BLUE CANOPY CLOTH).







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

Planning Commission Staff Report

Meeting Date: July 9, 2018

From: Cassie Harashe, Planner

Location: 14905 Clayton Road

Description: <u>Mobil Mart at Baxter and Clayton (Brite Worx)</u>: A Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 1.72 acre tract of land zoned "PC" Planned Commercial District located on the western corner of the intersection of Clayton Road and Baxter Road.

PROPOSAL SUMMARY

The request is for a Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations and an Architect's Statement of Design for a new 4,020 square foot stand-alone carwash facility at 14905 Clayton Road. The proposed building is to be constructed of EIFS and brick veneer with a stone base and a clear acrylic roof system. Accents include metal fascia, exposed steel ribbing, and clear glass windows. The subject site is zoned "PC" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance 2977.



Figure 1: Site Photo

HISTORY OF SUBJECT SITE

The subject property was originally zoned "C8" Planned Commercial District. In 1998, Arch Energy petitioned to change the zoning to allow for a filling station, a fast food restaurant, and a vehicle washing facility for automobiles. After initially being denied by the City, the zoning was changed to "PC" Planned Commercial District in June 2001 by <u>Ordinance 1750</u>. Ordinance 1750 underwent two amendments in 2001, ultimately ending with <u>Ordinance 1803</u>. In 2018, the subject site was zoned "PC" Planned Commercial District by City of Chesterfield <u>Ordinance 2977</u> to establish all new development criteria and uses for the site. The only approved use under this ordinance is a standalone car wash. There are several development criteria for this development including screening walls for both acoustic mitigation and aesthetic purposes, stricter lighting standards and restrictive access management standards.

| Direction | Zoning | Land Use | | | | | | | | |
|-----------|-------------------------------------|--|--|--|--|--|--|--|--|--|
| North & | "R3" Residence District (10,000 sq. | Attached single family residences within | | | | | | | | |
| West | ft.) | the Woodfield Subdivision | | | | | | | | |
| South | "PC" Planned Commercial and "C2" | Pharmacy and Bank located within the | | | | | | | | |
| | Shopping Districts | Walgreens at Clayton and Baxter Center | | | | | | | | |
| | | and No Subdivision Ward 3 | | | | | | | | |
| East | "C8" Planned Commercial District | Commercial properties within the Baxter | | | | | | | | |
| | | Center Subdivision | | | | | | | | |

LAND USE AND ZONING OF SURROUNDING PROPERTIES

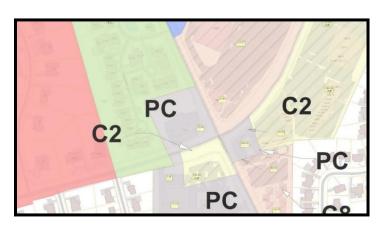


Figure 2: Zoning Map

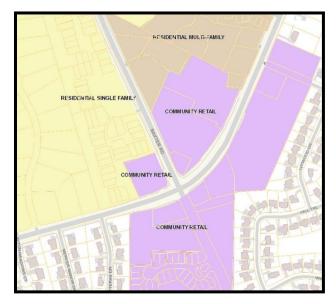


Figure 3: Comprehensive Land Use Plan

COMPREHENSIVE PLAN ANALYSIS

The subject site is located within Ward 3 of the City of Chesterfield. The City of Chesterfield Land Use Plan gives this parcel a Community Retail designation. The Plan Policies chapter of the Code calls for:

"Community Retail development along Highway 340 (Clarkson Road/Olive Boulevard) should be limited to the Urban Core and a select number of high quality, well-planned nodes clustered at the following locations: Baxter Road, Hilltown Center, Woods Mill/Highway 141." More specifically in the Land Use Element chapter, it defines Community Retail as "Serving Multiple Neighborhoods and Neighboring Communities". It further clarifies locations of Community Retail to include the intersection of Clayton Road and Baxter Road. There are three policies related to Commercial Development laid out in the Comprehensive Plan.

Policy 3.1 Quality Commercial Development - Commercial developments should positively affect the image of the City, provide employment opportunities, and offer retail and service options to residents.

This Site Development Plan is for the redevelopment of the Mobil Gas Station to be replaced with a Brite Worx Car Wash. This project offers a different service option to residents.

Policy 3.1.1 Quality of Design - Overall design standards should provide for smaller scale, mixed-use, project-oriented developments. Developments should emphasize architectural design, pedestrian circulation, landscaping, open space, innovative parking solutions and landscape buffering between any adjacent residential uses.

The redevelopment of this site is proposing a smaller footprint of impervious surfaces and more open space than a previously approved redevelopment plan. Design elements including elevations, circulation, landscaping and open space are discussed further in this report.

Policy 3.1.2 Buffering of Neighborhoods - Development should substantially buffer the neighboring residential uses in all directions by employing good site design, addressing vehicular access, building materials selection, tree preservation, and expanded setbacks.

This development is providing buffering through the use of site design, screening walls, landscaping, tree preservation, and setbacks. These specific areas are discussed later in this report.

This subject site is not located in any sub-area identified by the Comprehensive Plan; therefore there are no additional development guidelines for this site.

STAFF ANALYSIS

Circulation System & Access

The proposed carwash is to be located on a diagonal with the exit of the carwash facing the intersection of Clayton Road and Baxter Road. During the zoning process, the location of the carwash in relationship to the adjacent property owners was discussed at length. The length and the angle of the carwash were located to be as far from the residents as possible while still meeting other requirements such as, throat depths, turning radii, and landscape buffers. This angle also allows the exit of the carwash with the drying system to be located at the end of the carwash closest to the intersection. This puts the loudest portion of the carwash further away from the residents. The carwash will have vacuum stations on the western side that utilize a

central vacuum system; this system will be enclosed within the taller of the two towers on the building, again to minimize the amount of noise the site will generate.

Proposed ingress and egress from the site will be from two right-in/right-out access points, one on Clayton Road and one on Baxter Road, as required by the governing ordinance. Parking is proposed at the vacuum stations and north of the drive aisle along Clayton Road. Vehicles will enter the carwash from the northwest corner and exit at the southeast corner; customers can then turn left to access the vacuum stations.

A sidewalk is already in place along both Clayton and Baxter Roads to provide pedestrian access.

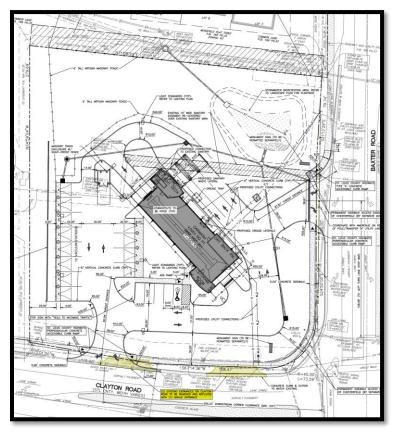


Figure 4: Site Plan

Topography & Retaining Walls

The subject site has an approximately 15 foot grade change from the northern side of the development to the north property line. One modular block retaining wall is proposed on the western side of the development along an existing wooden fence. This wooden fence will be removed, except the most southern 35'. This portion of the wood fence connects to a 13 foot section of chain link fence that carries over from the neighboring development to the west.

Architectural Elevations

There are two tower elements, one on the northeast and one on the southwest side of the carwash tunnel. The northeast tower will be 25 feet tall and the southwest tower will be 22' 5"

tall. The carwash tunnel is approximately 116 feet long and 21 feet tall. The tunnel portion of the carwash is a similar scale to the Walgreens to the south and the gas station canopy to the southeast. The scale of the building is broken down by providing various height changes along the east and west elevations, and a logical pattern of materials and windows along the north and south elevations. The applicant is proposing two human entry points which are adjacent to the auto entrance and exits on the narrow ends of the building. Finally, the building is provided with human scale by using horizontal banding to reduce the visual scale of the vertical elements.

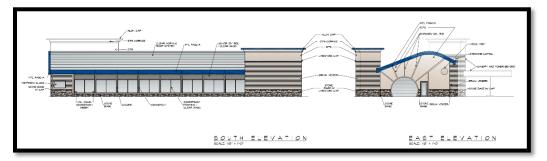


Figure 5: Color Elevations

Materials planned for this proposal include EIFS, brick veneer, stone base, a clear acrylic roof system, metal fascia, exposed steel ribbing, clear glass windows, limestone coping, aluminum gutters and downspouts. The EIFS, brick veneer, and stone base will be in shades of tan with metal fascia accent pieces in Pantone 23, Blue. During the zoning process, different elevations were shown to residents and the Planning and Public Works Committee. The final elevation proposed, Figure 5, does significantly match what was presented at the Planning and Public Works Committee meeting.

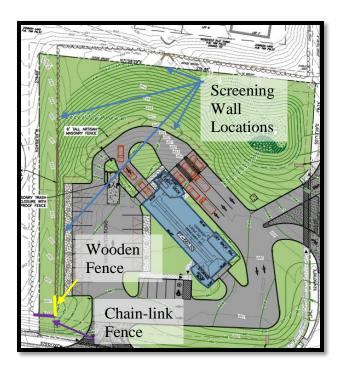


Figure 6: Screening Wall & Fence Locations

Landscaping, Screening, and Open Space

Landscaping is planned in association with the proposed development as required by the City of Chesterfield. The landscape design provides both deciduous and evergreen trees throughout the site, along with preserving many existing trees along the north and west property lines. Due to the presence of existing overhead utility lines and large sight distance triangles along Clayton Road and Baxter Road, the applicant is proposing a wide variety of low growing species in a meandering pattern to provide a wide variety of textures and colors. Additionally, many of these species have been integrated throughout the site to ensure a variety of seasonal color and texture is present.

Per the requirements of Ordinance 2977, the site should have an artisan concrete screen wall along the western edge of the vacuum station that continues to wrap around the northern side of the drive aisle around the development. The Ordinance also has a requirement that an artisan concrete wall be installed along the northern property line. The Site Development Plan shows the required wall, along with an artisan concrete wall that connects the northern wall to where the wall turns at the vacuum stations, essentially providing a continuous wall along the western and northern property lines. The locations of these walls are indicated by blue arrows in Figure 6.

At the southern end of the vacuum stations, the artisan wall will end and tie into a portion of the existing wood fence. The wooden fence is currently parallel to a large portion of the western property line. This fence will be removed, except for the portion indicated in yellow in Figure 6. This wood fence connects to an existing chain-link fence; approximately 13' of this fence, shown in purple in Figure 6, carries over onto the subject site from the southern property line of the Woodfield Development. The existing conditions of these fences can be seen in Figure 7.

A trash enclosure is planned to be located at the northeast corner of the building. The enclosure is proposed to be the same material as the artisan concrete screening wall with sight proof doors in a similar color.

A minimum of 35% open space is required for this development by <u>Ordinance 2977</u>. The proposal exceeds this requirement with 56.5% proposed open space.



Figure 7: Existing Fencing Conditions

Lighting

Lighting is planned in association with this development. The proposed lighting plan consists of one (1) light standard at two different heights. Per Ordinance No. 2977, light poles cannot exceed 8' on the north and west sides of the development and 16' elsewhere on the site. The applicant is proposing to use the same utilitarian light fixture on two different pole heights to comply with the Ordinance. The only wall mounted fixtures will be located at the human entry and exit points.

No accent lighting is proposed for this building. The Ordinance also has stricter requirements pertaining to non-security lighting. The applicant has provided five lighting plans, one for the site as a whole during operating hours, one for the site as a whole indicating the security lighting. Since the proposed building design includes a clear roof, they have additionally provided one for inside the tunnel during operating hours at the roof, one for inside the tunnel during operating hours at grade, and one for inside the tunnel at grade indicating security lighting.

ARCHITECTURAL REVIEW BOARD INPUT

This project was reviewed by the Architectural Review Board on May 10, 2018. At that meeting, the Board recommended approval with three conditions.

• Revise the planting locations along the north property line to provide adequate space for all plantings.

The applicant has since revised their landscape plan to provide a sufficiently planted 30' landscape buffer and to provide additional space for the proposed trees along the north property line.

• Provide photos of nighttime conditions to illustrate the appearance of the roofing material while lit at night.

The applicant has provided photos of their location at Columbia, Illinois to demonstrate the amount of sky glow the clear roofing material would produce. All photos are included in the Commission's packet, and one can be seen in Figure 8, below.

• Ensure lighting levels as indicated on the lighting plans will be maintained in the future.

Section VII. Enforcement, Item A. of Ordinance 2977 states 'The City of Chesterfield, Missouri will enforce the conditions of this ordinance in accordance with the Plan approved by the City of



Figure 8: Columbia, Illinois Brite Worx Location at night

Chesterfield and the terms of this Attachment 'A'. As a result of this, the City of Chesterfield has the authority to issue a violation should the lighting levels be out of compliance with the approved plan.

STAFF RECOMENDATION

Staff has reviewed the Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design and found it in compliance with the site specific ordinance, Comprehensive Plan, and City Code requirements. Staff recommends approval of the proposed development of Brite Worx Car Wash Site Development Plan.



Figure 9: Color Rendering

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 Brite Worx Car Wash."
- 2) "I move to approve (or deny) the Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Brite Worx Car Wash with the following conditions..." (Conditions may be added, eliminated, altered, or modified).

| Attachments: | Site Development Plan |
|--------------|---|
| | Tree Stand Delineation & Tree Preservation Plan |
| | Landscape Plan |
| | Lighting Plans & Cut Sheets |
| | Architect's Statement of Design |
| | Architectural Elevations |
| | Site Elements |
| | Renderings |
| | Night Photos of Columbia, IL location |
| | Emails from Residents |

BRITE CarWasher

NORTH

BENCHMARK

PROJECT BENCHMARK: "L" ON THE SOUTHWEST CORNER OF THE SOUTH HEADWALL OF A BOX CULVERT, 100' EAST OF THE CENTER LINE OF BAXTER ROAD AND 31' SOUTH OF MANOR KNOLL DRIVE. ELEV.584.94 (USGS DATUM) AS PUBLISHED IN THE METROPOLITAN ST. LOUIS SEWER DISTRICT ST. LOUIS COUNTY BENCHMARK BOOK (REVISED 6/97) BM4 12-89

SITE BENCHMARK: "L" ON THE WEST CORNER AT NORTH END OF 10" CONCRETE WALL AT THE NORTHEAST CORNER OF BAXTER AND CLAYTON ROADS. 45' EAST OF THE CENTERLINE OF BAXTER ROAD AND 125' NORTH OF THE CENTERLINE OF CLAYTON ROAD. ELEV.=661.29



DEPARTMENT OF PLANNING AND DEVELOPMENT SERVICES

SCRIPT FOR A SITE DEVELOPMENT PLAN

A TRACT OF LAND BEING SITUATED IN FRACTIONAL SECTION 26, TOWNSHIP 45 NORTH, RANGE 4 EAST, CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

INTERSECTION OF THE WESTERN RIGHT OF WAY LINE OF BAXTER ROAD AS WIDENED BY DEED RECORDED IN BOOK 8202 PAGE 1228 OF THE ST. LOUIS COUNTY RECORDS WITH THE NORTHERN LINE OF A TRACT OF O SOCONY MOBIL OIL COMPANY, BY DEED RECORDED IN BOOK 4921, PAGE 476 OF THE ST. LOUIS HENCE ALONG SAID WESTERN RIGHT OF WAY LINE. SOUTH 21 DEGREES 13 MINUTES 29 SECONDS O A POINT OI DEGREES 59 MINUTES 04 SECONDS WEST, 279.69 FEET TO THE NORTHWEST CORNER THEREOF. THENCE ALONG THE NORTHERN LINE OF SAID SOCONY MOBIL OIL COMPANY TRACT, NORTH 71 DEGREES 08 MINUTES 29 SECONDS EAST, 276.88 FEET TO THE POINT OF BEGINNING, CONTAINING 76,050 SQUARE FEET.

| ARCH ENERGY, LCA | , the owner(s) of the property shown on this plan for and in |
|--------------------|--|
| [Name of Owner(s)] | |

consideration of being granted approval of said plan to develop property under the provisions of Section 03-04, PC -PLANNED COMMERCIAL of City of Chesterfield Unified Development (applicable subsection) (present zoning)

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 voided or vacated by order of ordinance of the City of Chesterfield Council.

(Name Typed):

State of

County of

On this _____ dav (

, A.D., 20____, before me personally appeared

, to me known, who, being by me sworn in, did say (Officer of Corporation) that he/she is the _ (Name of Corporation) (Tille)

, and that the seal affixed to the foregoing instruments corporation in the State of _ is the corporate seal of said corporation, and that said instrument was signed on behalf of said corporation by authority of its Board of Directors, and the said_ (Officer of Corporation) acknowledged said instrument to be the free act and deed of said corporation.

In Testimony Whereof, I have hereunto set my hand and affixed my Notarial Seal at my Office in

, the day and year last above written.

(County and State)

My term expires _

(Notary Public)

This Site Development Plan was approved by the City of Chesterfield Planning Commission and duly verified on the _____ day of _____, 20___, by the Chairperson of said Commission, authorizing the recording of this Site Development Plan pursuant to Chesterfield Ordinance Number 200, as attested to by the Director of Planning and Development Services and the City Clerk.

Justin Wyse, AICP Director of Planning and Development Services City of Chesterfield, Missouri

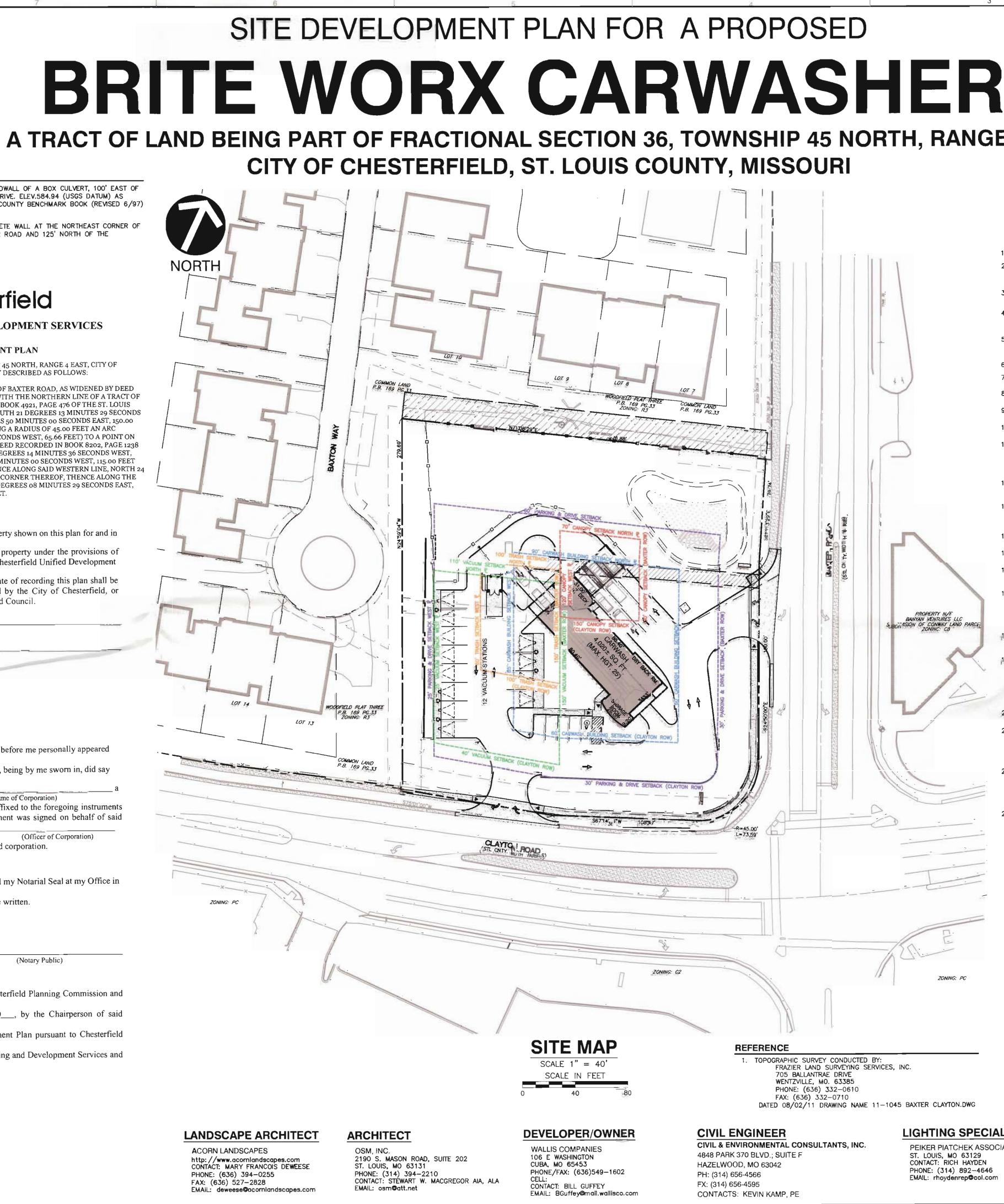
Vickie Hass, City Clerk City of Chesterfield, Missouri

LANDSCAPE ARCHITECT

ZONING: PO

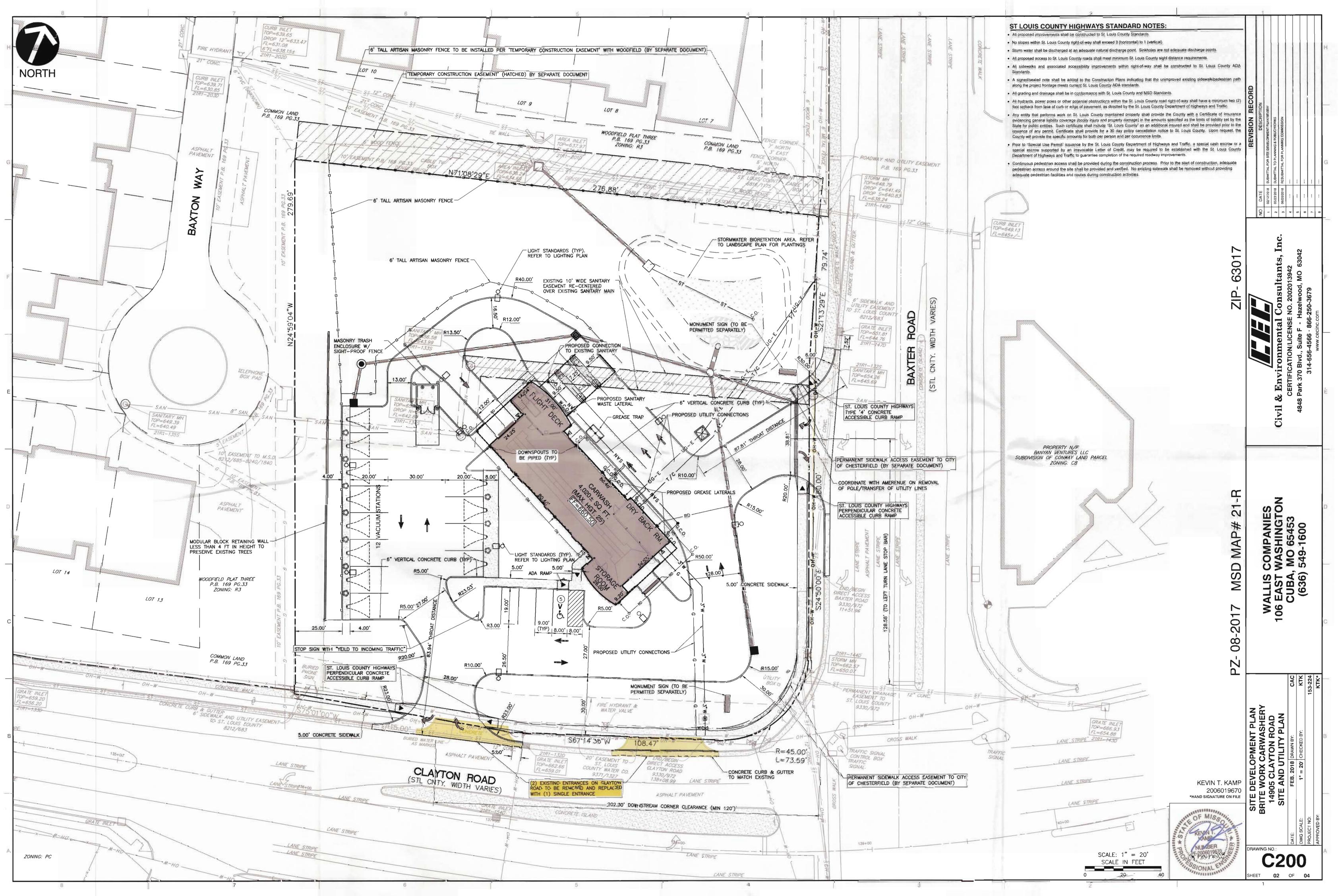
LOT 13

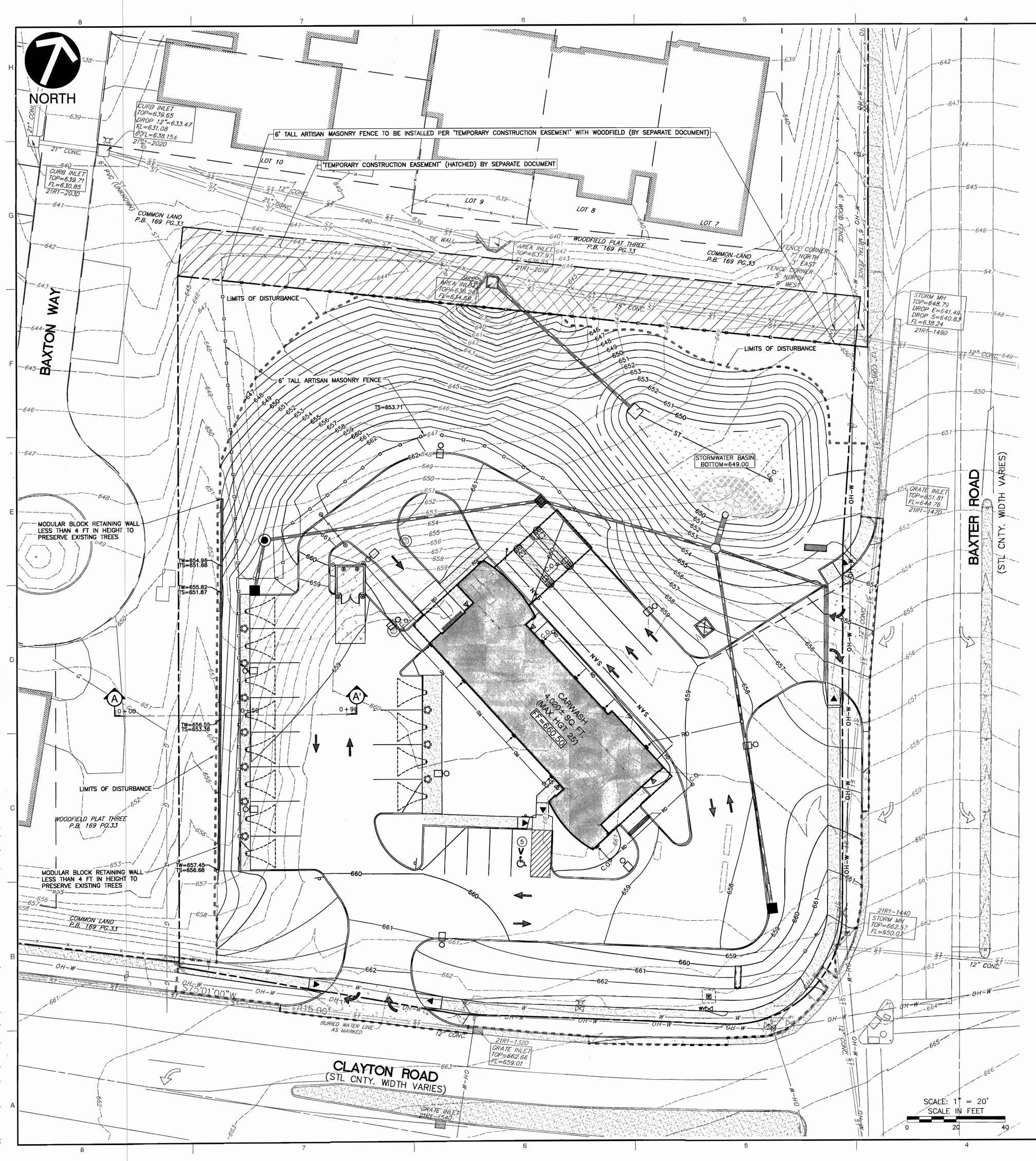
ACORN LANDSCAPES http://www.acomlandscapes.com CONTACT: MARY FRANCOIS DEWEESE PHONE: (636) 394-0255 FAX: (636) 527-2828 EMAIL: deweese@acomlandscapes.com

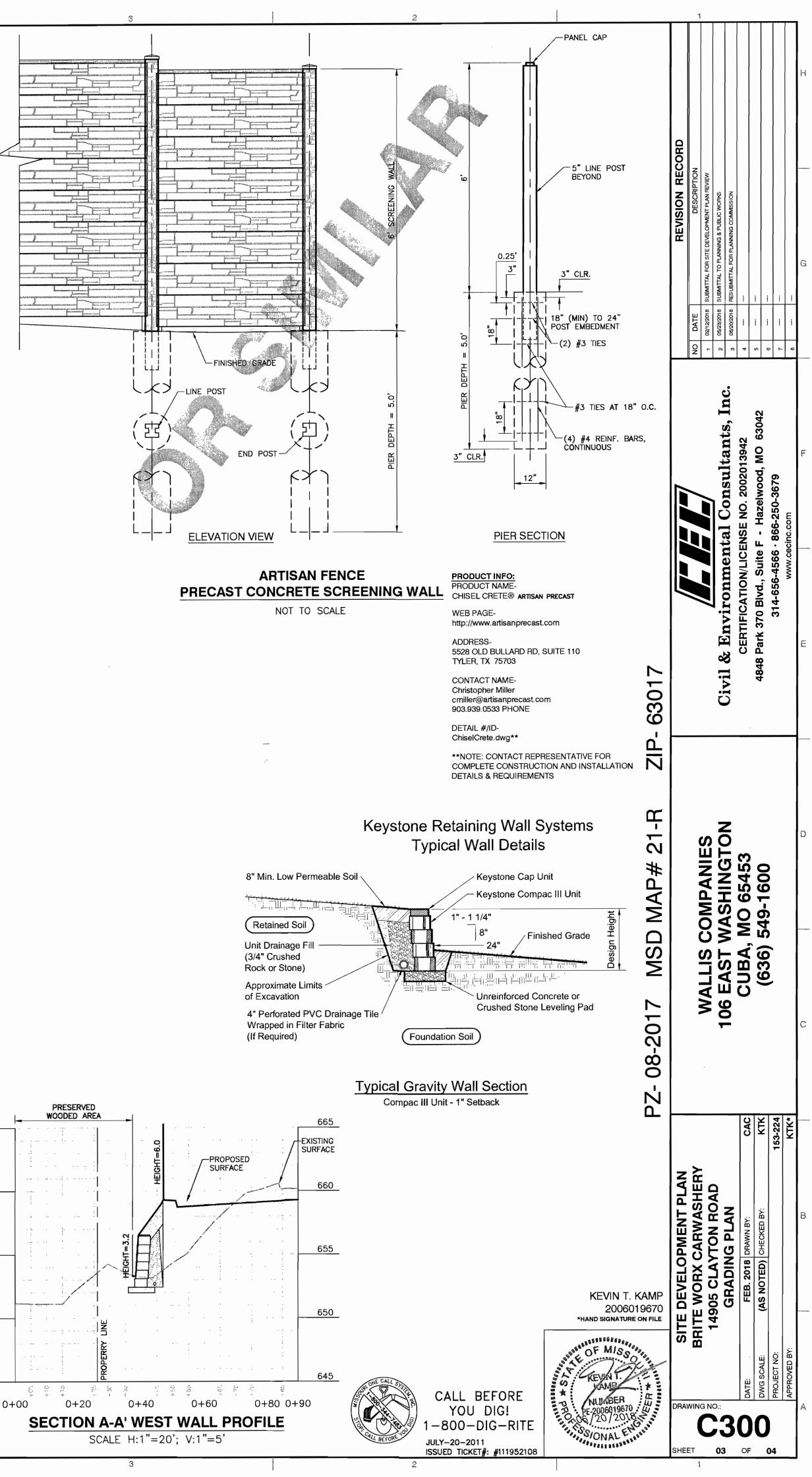


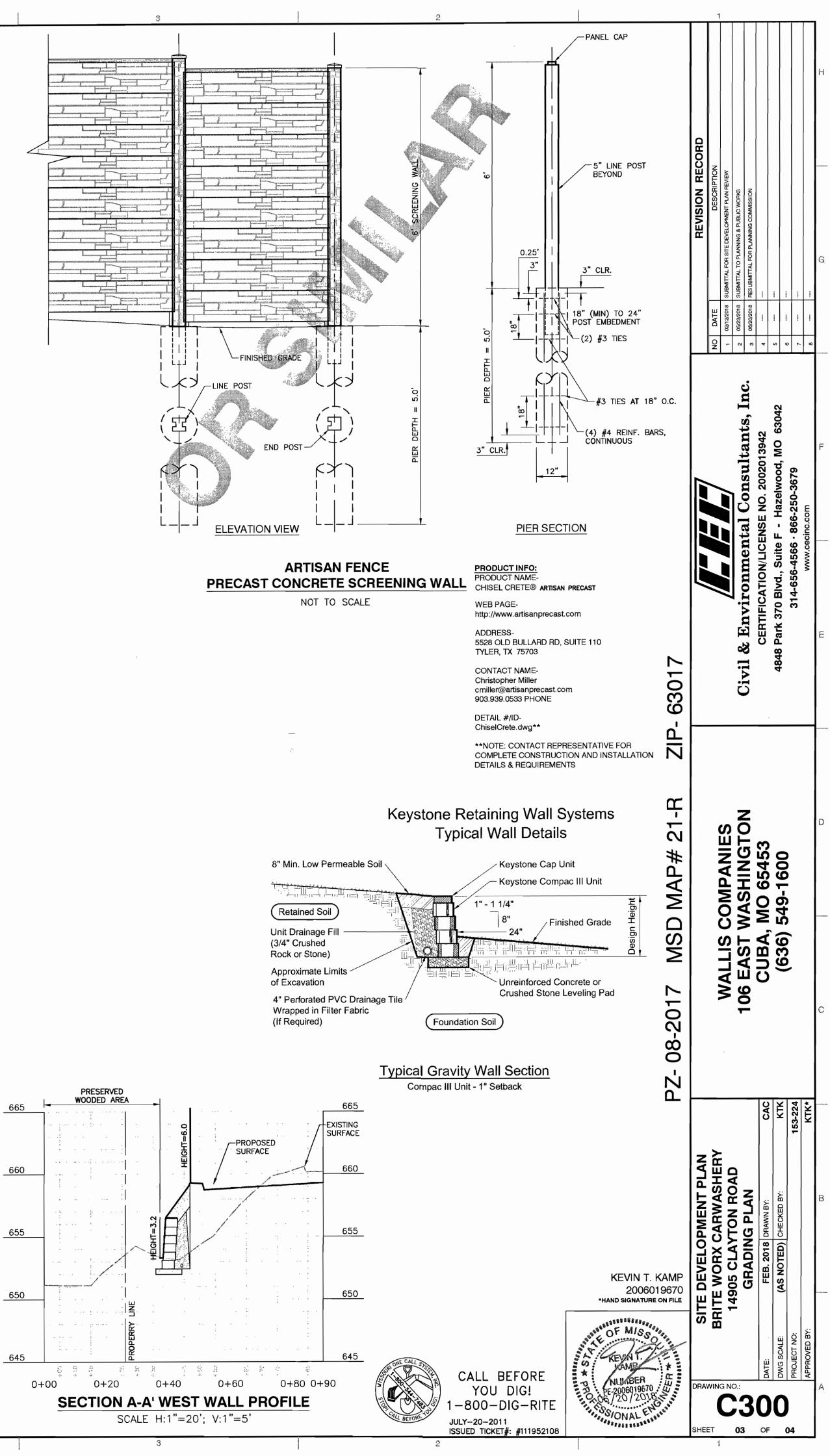
4

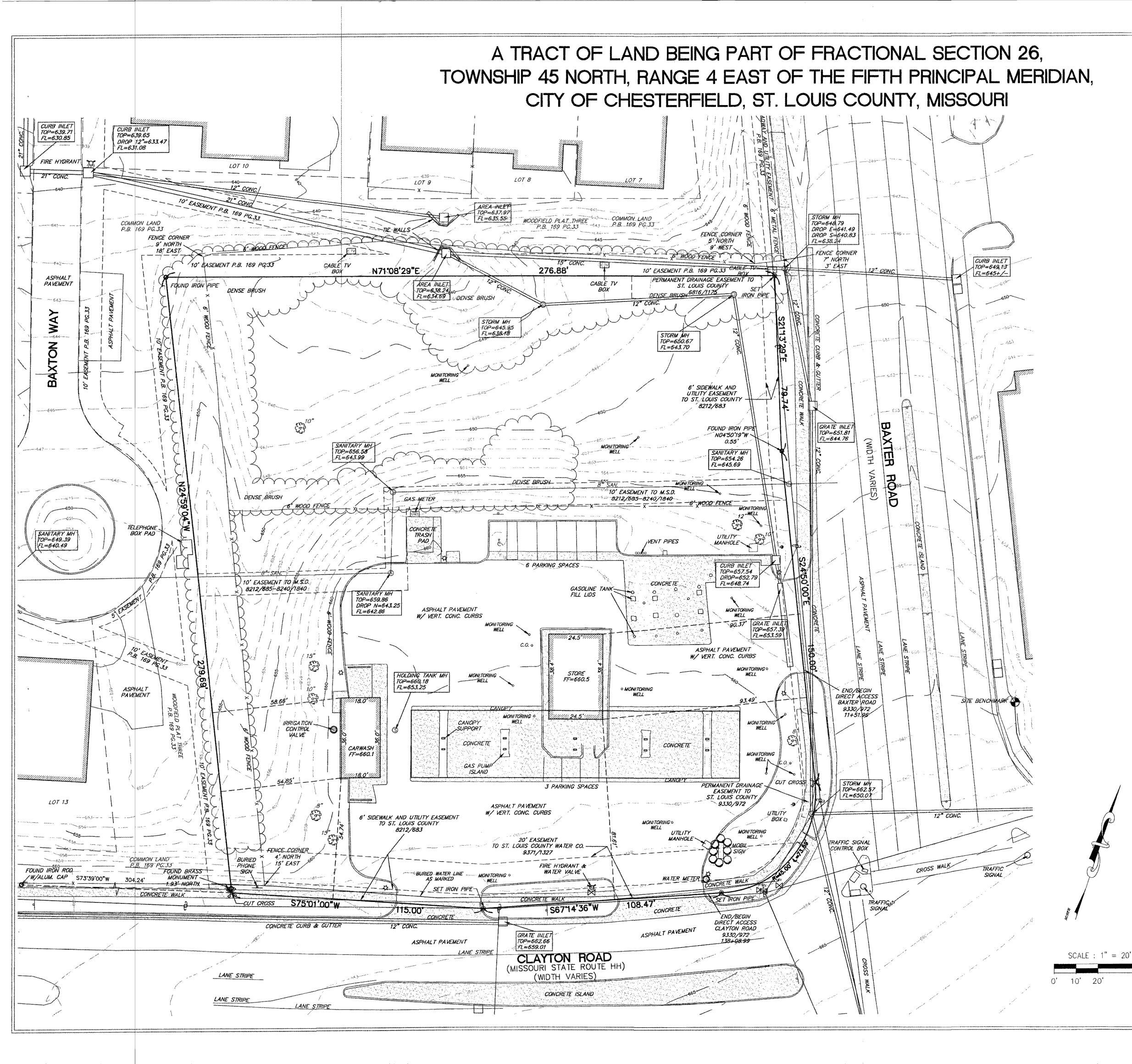
| DEVELOPMENT NOTES 1. OVERALL AREA OF TRACT: | FORSHEER DR FORSHEER DR BITE USG U.S.G.S. 7.5 S: 76,050 SQ.FT. (1.746 | SITES | Loehr | CLAYTON I GOOD AND CORPORED MISSOURI DATED 2 | | SUBMITTAL | 05/23/2018 SUBMITTAL TO PLANNING & PUBLIC WORKS 06/20/2018 RESUBMITTAL FOR PLANNING COMMISSION | | |
|--|--|---|--|---|----------------------|--|---|--------------------------------------|--|
| NUMBER 29189C0281K, WITH ZONE IS DEFINED AS AN AR 12. FENCING PROPOSED SHALL MANUFACTURER. 13. VACUUMS SHALL UTILIZE A OPERATIONAL ONLY DURING CANISTER VACUUMS AT INDIX 14. SITE SHALL OBTAIN APPROV/ 15. LANDSCAPING WILL BE REQU 16. ACCESS MANAGEMENT PRINC UNIFIED DEVELOPMENT CODE | P.Z. 08-2017 APPRO CONVENIENCE STORE, SINGLE USE: TUNNEL ARCH ENERGY, LCA 106 E WASHINGTON CUBA, MO 65453 THIS SHEET. 25 FEET JRFACE TRANSFORMER SW GEPARATE PROCESS E LOCATED UNDERGROUND INSURANCE RATE MAP OF H AN EFFECTIVE DATE OF REA DETERMINED TO BE OF REA DETERMINED TO BE OF BE OF CEMENTATIOUS MAR CENTRAL VACUUM SYSTEM BUSINESS HOURS AND P VIDUAL STATIONS WILL BE AL FROM ST. LOUIS METR JIRED TO BE PLANTED ON CIPALS TO BE APPLIED TO E OF THE CITY OF CHEST | 63017 0960] RCIAL DISTRICT (CITY OF CHE DVED JAN 17, 2018; ORDINAN , CARWASH & GAS SALES CARWASH (HOURS OPERATION VITCHING PADS SHALL BE SCR D. TST. LOUIS COUNTY, MISSOUR OF FEBRUARY 4, 2015, THIS F DUTSIDE THE 0.2% ANNUAL CH ATERIAL AND A PRODUCT OF A INTERIAL OF THE PROPO INTERICT. IN BOTH SIDES OF THE PROPO INTERICT. | CE #2977/BILL #31 N 7AM-8PM ALL DAY REENED. RI AND INCORPORATE PROPERTY LIES WITHI ANCE FLOOD PLAIN. NRTISAN® PRECAST O N BUILDING. VACUUMS E TURNED OFF DUR SE TURNED OFF DUR | rs) D AREAS, MAP N SFHA ZONE X. R SIMILAR S SHALL BE ING OFF-HOURS. L. 0410 OF THE | 21-R ZIP- 63017 | | Civil & Environmental Consultants, Inc. | Bivd., Suite F - Hazelwood, MO 63042 | 0-4300 ' 000-200-301 www.cecinc.com |
| CREDIT AGAINST THE PETITIO BE AWARE OF EXTENSIVE DE CONSTITUTE À CAUSE TO AL 18. US SURVEY CORNERS LOCAT DISTURBED DUE TO THE CO 19. NO ONSITE LIGHT STANDARD DIRECTLY ON ADJOINING PRO SHALL NOT EXCEED EIGHT (DESIGN. THE LIGHT STANDAR AND SHALL BE A BOX DESI REFER TO PHOTOMETRIC PL/ 20. NON-SECURITY LIGHTING SH 21. PARKING CALCULATIONS: SEL STACKING PROVIDED = 3+ PARKING PROVIDED = 3+ PARKING PROVIDED = 17 22. NO OFF-SITE GRADING IS A GRADING IS NECESSARY FOR REQUIRED FOR THE ADJAC REQUIRED FOR THE ADJAC REQUIRED FOR THE OFF-SIT OTHER AMENITIES AS SET FO 23. SITE CALCULATIONS: F.A.R. CALCULATIONS: F.A.R. CALCULATIONS: DENSITY: TOTAL LOT SIZE TOTAL GREEN SF TOTAL PAVEMENT | D RIGHT OF WAY. UTILIT NER'S TRAFFIC GENERATIC ELAYS IN UTILITY COMPAN LOW OCCUPANCY PRIOR TED ON OR NEAR THE DE INSTRUCTION. SHALL EXCEED SIXTEEN OPERTIES AND/OR PUBLIC (8) FEET IN HEIGHT, SHAL RD AT THE ENTRANCE ON GN (PER ORDINANCE). LIC AN(S). HALL NOT BE ON 30 MINU LF-SERVICE DRIVE THRU/ S @ 1 SPACE PER VACUL SPACES SPACES INCLUSIVE OF 1 INTICIPATED FOR THE PRO R THE COMPLETION OF THE ENT PROPERTY OWNER. IN TE CONSTRUCTION OF THE ORTH IN THAT AGREEMENT | Y RELOCATION COST SHALL N ON ASSESSMENT CONTRIBUTION Y RELOCATION AND ADJUSTME TO COMPLETION OF ROAD IMP EVELOPMENT SITE MUST PROTE (16) FEET IN HEIGHT NOR BI C ROADWAYS. LIGHT STANDARD L BE DIRECTED TOWARD THE CLAYTON ROAD SHALL NOT E GHTING SHALL BE AS APPROVI JTES PRIOR TO OPENING OR F AUTOMATED CARWASH @ 1 SF JM. ADA VAN-ACCESSIBLE SPACE OPOSED DEVELOPMENT OF THE HE PROJECT, A TEMPORARY SL IOTE: A TEMPORARY SLOPE CO E CEMENTATIOUS FENCE, DEMO T. | INT. BE CONSIDERED NS. THE DEVELOPER NTS. SUCH DELAYS PROVEMENTS. ECTED AND SHALL BI E SO SITUATED THAT S NORTH AND WEST BUILDING, AND SHAL EXCEED SIXTEEN (16) ED BY THE CITY OF PAST CLOSING. PACE IN BAY PLUS 3 & 12 VACUUM STAT BRITEWORX PROJEC LOPE CONSTRUCTION DNSTRUCTION LICENS | AS AN ALLOWABLE SHOULD ALSO WILL NOT E RESTORED IF LIGHT IS CAST OF THE BUILDING L BE A SHOEBOX FEET IN HEIGHT CHESTERFIELD, ADDITIONAL IONS T. IF OFF-SITE LICENSE WILL BE | -Z- 08-2017 MSD MAP# | WALLIS COMPANIES | 106 EAST WASHINGTON CUBA, MO 65453 | (636) | |
| DEVELOPMENT PROPOSED GEOTECHNIKAL STUD DAT | HAS PROVIDED OF TRANSTIGATION 125 CON FINDINGS INDICATE THAT PIRSUAN'T TO THE GEOT 2018 TIMOTHY I BARRETT 5/22/18 NUMBER PE-2011015698 | IPI ANCE GEOTECHNICAL SEMICES FOR VDUCTED DURING THE EARTH-RELATED ASSECT ECHNICAL RECOMMENDATIONS DATE DATE NECEIVED JUL - 2 2018 LIST TODE OF Public Service TITLE | SET FORTH IN OUR | ALL BEFORE YOU DIG! 300-DIG-RIT -20-2011 D TICKET#: #111952 KEVIN T. KAN 20060196 *HAND SIGNATURE ON F | 108 1P 70 | SITE DEVELOPMENT PLAN BRITE WORX CARWASHERY | FEB. 2018 DRAWN BY: CAC | 1" = 30' CHECKED BY: | D BY: KTK* |
| | NO. NO. 01 C000 02 C200 03 C300 04 C400 | COVER SITE AND UTILITY PLAN GRADING PLAN SURVEY | A S * DULL | REVIN I HUMBER DE 2006013670 SSIONAL ENGIN | Press | | | 0 | |

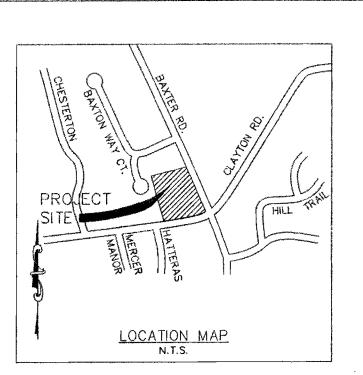












GENERAL NOTES:

RECORDS.

- 1. BASIS OF BEARINGS FOR THIS SURVEY WAS ADOPTED FROM THE DEED RECORDED IN BOOK 10024, PAGE 199, TRACT 12, OF THE ST. LOUIS COUNTY RECORDS.
- 2. THIS PROPERTY IS CURRENTLY VESTED IN THE NAME OF THE ARCH ENERGY, LC ACCORDING TO THE DEED RECORDED IN BOOK 10024, PAGE 199 OF THE ST. LOUIS COUNTY RECORDS.
- 3. ALL TIES ARE PERPENDICULAR TO THE PROPERTY LINES UNLESS OTHERWISE NOTED.
- 4. ACCORDING TO THE FLOOD INSURANCE RATE MAP OF ST. LOUIS COUNTY, MISSOURI AND INCORPORATED AREAS, MAP NUMBER 29189C0256H, WITH AN EFFECTIVE DATE OF AUGUST 2, 1995, THIS PROPERTY LIES WITHIN SFHA ZONE X. ZONE IS DEFINED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.
- 5. UTILITY LOCATIONS BASED ON FIELD MARKINGS BY MISSOURI ONE CALL, TICKET #111952108, AND ABOVE GROUND OBSERVED EVIDENCE. ALL LOCATIONS SHOULD BE CONSIDERED APPROXIMATE ONLY, OTHERS MAY EXIST AND SHOULD BE VERIFIED BEFORE ANY CONSTRUCTION BEGINS.
- 6. A CURRENT TITLE COMMITMENT WAS NOT FURNISHED FOR THE EXECUTION OF THE SURVEY. THEREFORE THIS PLAT IS SUBJECT TO ALL THE CONDITIONS AND EXCEPTIONS THAT A CURRENT TITLE COMMITMENT MAY REVEAL, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
- A. EASEMENTS OF RECORD. B. EASEMENTS OR CLAIMS OF EASEMENTS NOT REVEALED IN THE PUBLIC
- C. RIGHTS OR CLAIMS OF RIGHTS OF PARTIES IN POSSESSION NOT SHOWN BY THE PUBLIC RECORD, IF ANY.
 D. DEFECTS, ENCUMBRANCES, ADVERSE CLAIMS OR OTHER MATTERS, IF ANY. THIS SURVEY IS ALSO SUBJECT TO ANY CONVEYANCES OR TAKINGS, NOT REVEALED BY THE COUNTY ASSESSOR'S OFFICE, RIGHTS OF WAY, SETBACK LINES, COVENANTS, RESTRICTIONS AND ZONING ORDINANCES.
- 7. PROJECT BENCHMARK: "L" ON THE SOUTHWEST CORNER OF THE SOUTH HEADWALL OF A BOX CULVERT, 100' EAST OF THE CENTER LINE OF BAXTER ROAD AND 31' SOUTH OF MANOR KNOLL DRIVE. ELEV.584.94 (USGS DATUM) AS PUBLISHED IN THE METROPOLITAN ST. LOUIS SEWER DISTRICT ST. LOUIS COUNTY BENCHMARK BOOK (REVISED 6/97) BM4 12-89.

SITE BENCHMARK: "L" ON THE WEST CORNER AT NORTH END OF 10" CONCRETE WALL AT THE NORTHEAST CORNER OF BAXTER AND CLAYTON ROADS. 45' EAST OF THE CENTERLINE OF BAXTER ROAD AND 125' NORTH OF THE CENTERLINE OF CLAYTON ROAD. ELEV.=661.29

LEGAL DESCRIPTION A TRACT OF LAND BEING SITUATED IN FRACTIONAL SECTION 26, TOWNSHIP 45 NORTH, RANGE 4 EAST, CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE WESTERN RIGHT OF WAY LINE OF BAXTER ROAD, AS WIDENED BY DEED RECORDED IN BOOK 8202, PAGE 1238 OF THE ST. LOUIS COUNTY RECORDS WITH THE NORTHERN LINE OF A TRACT OF LAND CONVEYED TO SOCONY MOBIL OIL COMPANY, BY DEED RECORDED IN BOOK 4921, PAGE 476 OF THE ST. LOUIS COUNTY RECORDS; THENCE ALONG SAID WESTERN RIGHT OF WAY LINE, SOUTH 21 DEGREES 13 MINUTES 29 SECONDS EAST, 79.74 FEET TO AN ANGLE POINT THEREIN; THENCE SOUTH 24 DEGREES 50 MINUTES OD SECONDS EAST, 150.00 FEET TO A POINT OF CURVE; THENCE ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 45.00 FEET AN ARC DISTANCE OF 73.59 FEET (CHORD OF SOUTH 22 DEGREES 02 MINUTES 01 SECONDS WEST, 65.66 FEET) TO A POINT ON THE NORTHERN RIGHT OF WAY LINE OF CLAYTON ROAD, AS WIDENED BY DEED RECORDED IN BOOK 8202, PAGE 1238 AS AFOREMENTIONED; THENCE ALONG SAID NORTHERN LINE, SOUTH 67 DEGREES 14 MINUTES 36 SECONDS WEST, 108.47 FEET TO AN ANGLE POINT THEREIN; THENCE SOUTH 75 DEGREES 01 MINUTES 00 SECONDS WEST, 115.00 FEET TO THE WESTERN LINE OF SAID SOCONY MOBIL OIL COMPANY TRACT; THENCE ALONG SAID WESTERN LINE, NORTH 24 DEGREES 59 MINUTES 04 SECONDS WEST, 279.69 FEET TO THE NORTHWEST CORNER THEREOF, THENCE ALONG THE NORTHERN LINE OF SAID SOCONY MOBIL OIL COMPANY TRACT, NORTH 71 DEGREES 08 MINUTES 29 SECONDS EAST, 276.88 FEET TO THE POINT OF BEGINNING, CONTAINING 76,050 SQUARE FEET.

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT WE HAVE, DURING THE MONTH OF AUGUST 2011, BY THE ORDER OF CIVIL & ENVIRONMENTAL CONSULTANTS, INC EXECUTED A PROPERTY BOUNDARY AND TOPOGRAPHIC SURVEY ON A TRACT OF LAND BEING PART OF FRACTIONAL SECTION 26, TOWNSHIP 45 NORTH, RANGE 4 EAST OF THE FIFTH PRINCIPAL MERIDIAN, CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI. THIS SURVEY WAS EXECUTED IN ACCORDANCE WITH THE CURRENT MISSOURI MINIMUM STANDARDS FOR PROPERTY BOUNDARY SURVEYS FOR URBAN PROPERT.

DENNIS C. FRAZIER NUMBER L\$-2002000247, 82 CA 7LAN DENNIS C FRAZIER LAND SURVEYING SERVICES, INC. MISSOURI PROFESSIONAL LAND SURVEYOR #2002000247

| 40' | PREPARED FOR: CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 4848 PARK 370 BLVD., HAZELWOOD, MO. 63042 | | DATE: 08/02/11 SCALE: 1"=20' PROJECT NO: 11-1045 FILE NAME: 11-1045.DWG | PROPERTY BOUNDARY AND TOPOGRAPHIC SURVEY | | | | |
|-----|---|--|--|--|--------|--|--|--|
| | DRAWING NO.: C400 SHEET 04 OF 04 REV-4: | | | FRAZIER LAND SURVEYING SERVICES, INC. 705 BALLANTRAE DRIVE WENTZVILLE, MO. 63385 PHONE: 636-332-0610 FAX: 636-332-0710 | 1 OF 1 | | | |

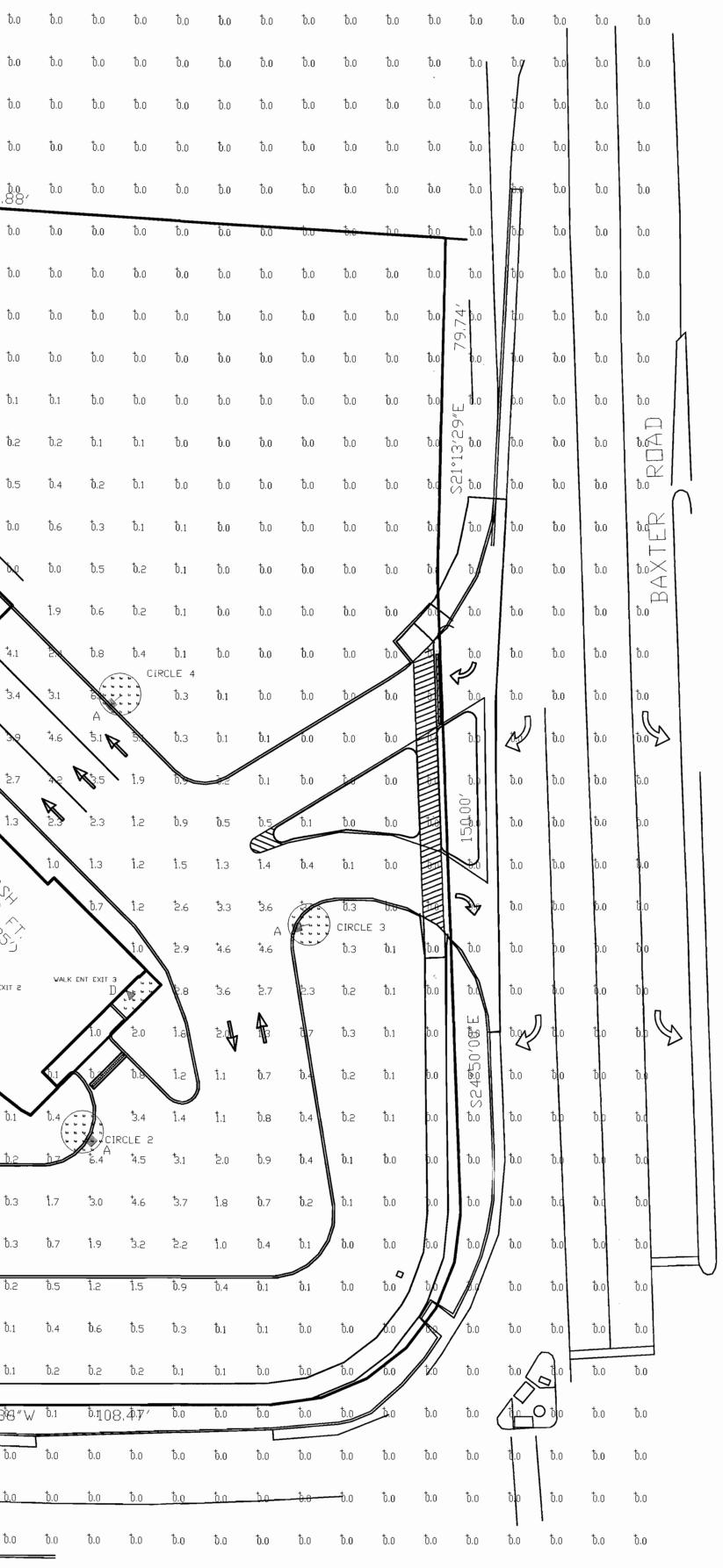


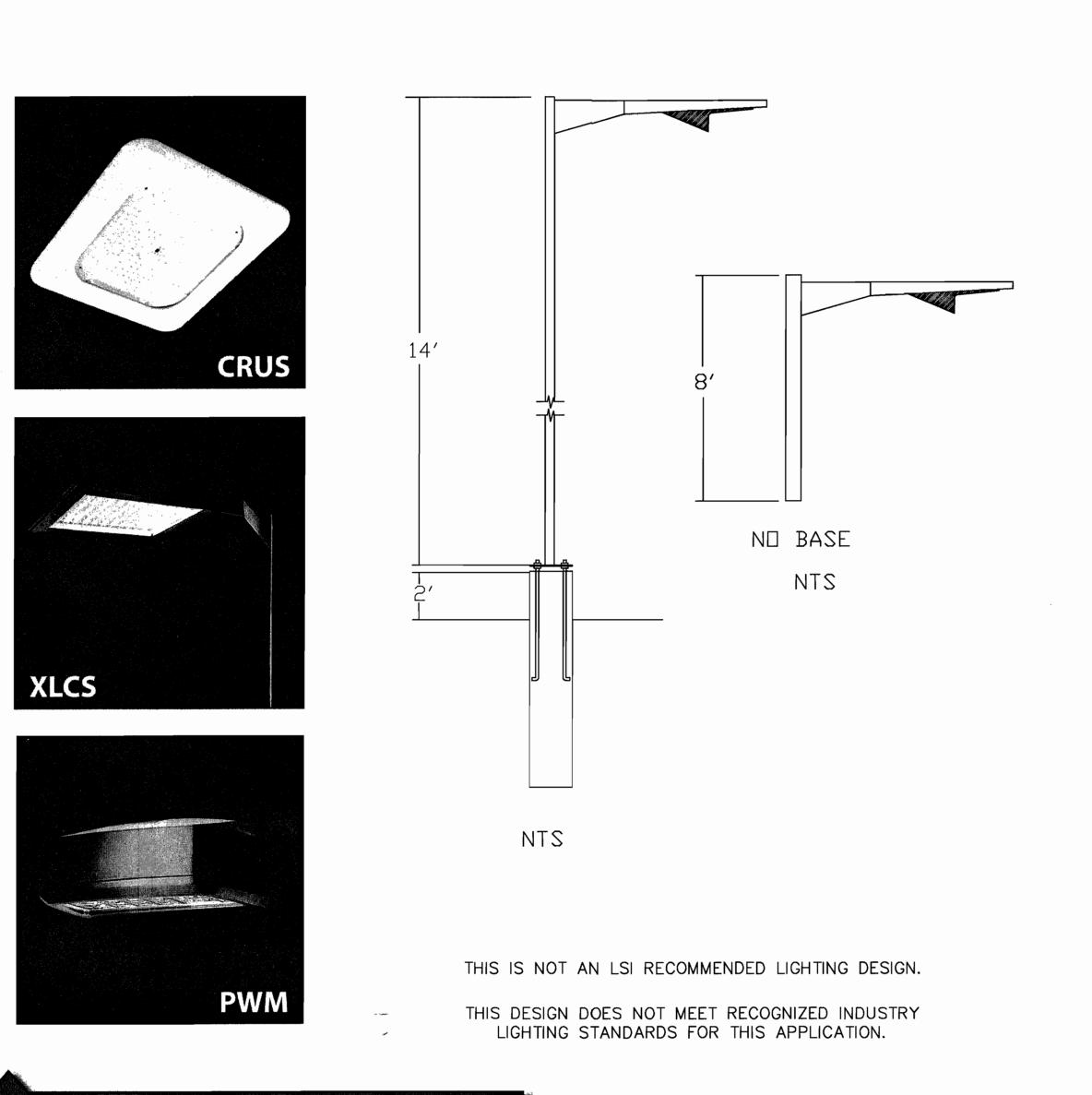
| | Ō.0 | . 0 | [†] 0.0 | b. 0 | Ō.0 | Ō.0 | [†] 0.0 | [†] 0.0 | ð.0 | ð.0 | ð.o | Ō.0 | ð .0 | ħ.0 | ð .0 | ð.0 | Ō.0 | Ъ .о | ħ.o |
|---|------------------|------------------|-------------------|------------------------|-----------------------|------------------|------------------|---|--------------------|--------------------|------------------|------------------|------------------|------------------|-------------------------|-----------------------|------------------------|----------------------------|---|
| | [†] 0.0 | [†] 0.0 | ħ.o | [†] 0.0 | [†] 0.0 | ţ.0 | [†] 0.0 | [†] 0.0 | ð.0 | 0 .0 | [†] 0.0 | ð.0 | 0.0 | ħ.o | Ō.0 | Ō.0 | ð.0 | ð.o | Ō.0 |
| | Ō.0 | ð.o | Ō.0 | b.o | Ō.0 | Ō.0 | Ō.0 | Ō.0 | ð.0 | Ѣ.о | ₽.0 | Ō.0 | † .0 | ð.o | [†] 0.0 | [†] 0.0 | b .0 | [†] 0.0 | [†] 0.0 |
| | Ō.0 | Ō.0 | Ъ.0 | ō.o | Ō.0 | Ō.0 | b .o | 0 .0 | Ō.0 | † .0 | ð.0 | ð.o | ō.o | ħ.o | ð .0 | t .0 | b .0 | Ѣ.о | Ō.0 |
| | ō.0 | Ō.0 | Ō.0 | ħ.o | ħ.o | Ō.0 | ħ.o | ð.0 | D.0 | N71° | 08,53 | 9″Ę. | <u>ħ.n</u> | ð.0 | ð.o | ħ.0 | Ō.0 | [₺] . <u>2</u> 76 | 0.đ |
| | ð.o Č | 、 | [†] 0.0 | ð.o | [†] 0.0 | [†] 0.0 | † 0.0 | Ō.0 | Ō.0 | . 0 | ħ.0 | ð.0 | ħ.o | ð.o | ð .0 | ð .0 | Ō.0 | b .o | ħ.o |
| | 0 1 0.0 | か へい も.o | [†] 0.0 | ð.o | † 0.0 | ħ.0 | ħ.o | ð.o | ð.0 | ō.o | ħ.o | Ō.0 | ъ.о | ð.o | ð.o | Ō.0 | ħ.o | Ō.0 | [†] 0.0 |
| | Ō.0 | ō.o | [†] 0.0 | ð.0 | Ō.0 | Ō.0 | Ō.0 | ō.0 | ð.o | Ѣ.о | ð.0 | ō.o | Ѣ.о | Ō.0 | ħ.0 | ð.0 | ð.o | Ъ.0 | ħ.o |
| | Ō.0 | þ.o | Ѣ.о | Ъ.о | ð.0 | ħ.o | Ō.0 | [†] 0.0 | ð .0 | Ъ.о | ħ.0 | ō.0 | ъ.о | Ō.0 | ħ.o | ð.0 | ð.0 | ð.1 | Ō.0 |
| | [†] 0.0 | 0.0 | [†] 0.0 | b .o | [†] 0.0 | Ъ.о | Ъ .о | ħ.o | b .o | Ъ.о | ð .o | [†] 0.0 | | 0.0 LE 5 | [†] 0.0 | [†] 0.0 | Ō.1 | Ö .1 | ħ.1 |
| | ð.0 | t .0 | b .0 | ð.0 | ħ.o | т .о | [†] 0.0 | т .о | ħ.o | ð.0 | 0.0 | 1.4 | | [†] 0.4 | -to.0 | Ō.0 | † .0 | Ъ.2 | ð.2 |
| | Ъ.о | to | ð.o | Ō.0 | ð.0 | b.o | ð.0 | Ъ .о | ħ.0 | Ð.1 | ð.5 | ⁺ 3.0 | B 4.7 | Ť.0 | ţ.4 | Ď.6 | | [†] 0.0 | ð.5 |
| | ō.0 | οđ | † .0 | Ō.0 | ð.0 | Ō.0 | ð.0 | ħø | | Ō.4 | ð.5 | 1.1 | 1.4 | 1.0 | t.9 | 1.6 | Ì | N | 0 .0 |
| | ħ.o | 14.04W | ō.0 | [†] 0.0 | [†] 0.0 | ō.o | ħ.0 | 7.0 | Ō.1 | 1.2 | 14 | . 4 | Ъ.4 | t _{0.7} | 1.7 | 4.3 | 15.1 | · 🐉 | Ja |
| | ð.o | ,0,6tg, | ð .0 | Ō.0 | ð .0 | Ъ.о | ð.o | ð.o | 0.1 | ^{3.1} B | * 4.9 | 1.3 | 0 .3 | ţ.0 | X ^{3,2} | | 16.0 200 20.00 21.0 | 19.1 14.1 1.9 | |
| | . 0 | 4U24 | 0 .0 | Ō.0 | ð .o | . 0 | b. 0 | Ф.О | ð.0 | | 1.8 | ð. | <u>ð.5</u> | ţ | V | 13.1 18 13.1 197.2 | | | 4.1 |
| | ð .o | . 0 | ð.o | Ō.0 | ħ.o | <u>_ħ1</u> | | . 0 | 0.0 | RCLE 6 | \wedge | ð.2 | | | | 12.3 | ÌL4 66 | - St | ⁺ 3,4 |
| | [†] 0.0 | ð .o | . 0 | [†] 0.0 8″ | 0.2 AN | | ð.2 | b .o | p.5 | X | 1 | > | | WALK ENT | | ENT EXIT | | ^{3.3} | 30 |
| | [†] 0.0 | ð. o | ō.0 | Ō.0 | 0 ^{1.3} G | E1.8 | [†] .5 | . 1 | ħ.7 | ⁺ 4.1 B | | ð.2 | | | | 1 | | ^{1.8} | [‡] 2.7 |
| | † .0 | ō.o | [†] 0.0 | ð.1 | B | 4.9 | 1 ^{b.7} | . 2 | ð.6 | b.9 | 0.6 | ð.1 | t.d | | | | | \backslash | 1.з |
| | ð .0 | ъ .о | [†] 0.0 | CIRC D.O | ΣΪ 7 (1.5 Ο | t2.0 | ð.6 | . 1 | b .1 | ð.1 | | | <u>ð.o</u> | ð.0 | | | A. | CAP4 | |
| | ō.0 | Ѣ.о | [†] 0.0 | Ѣ.о | 1 | 1 5 | ð.2 | Ď.1 | Ō.0 | ō.0 | ð.r | Ъ.3 | ₹.1 ^E | ð.0 | ţ.0 | | y | | , ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| | ð.o | ō.o | Ō.0 | Ō.0 | 0 | b.1 | 1 0.2 | ₽.₫ | ō.0 | A .0 | ð.1 | 1.0 | 1.2 E | Ō.1 | Ö .0 | ð.1 | | Ś | ر رک |
| | ð.o | [†] 0.0 | [†] 0.0 | b .o | [†] 2C |) h5 | ↓ _ ↓ | — •••••••••••••••••••••••••••••••••••• | ð .0 | [†] 0.0 | <u>.</u> | | = 5.0 | | D .1 | [†] 0.2 | ð.8 | WALK ENT | EXIT 2 |
| | ħ.o | Ō.0 | ð .0 | [†] 0.0 | · ŦĘ B | 3,4 | 1.0 | Ō.1 | Ō.0 | [†] 0.0 | b .1 | | | CIRC ð.3 | LE 9 D.1 | Ō.2 | ð.9 | | |
| | ð .0 | b .o | Ъ.o | | | | 1.2 | ð.1 | Ď .1 | D .1 | ð.2 | 1.5 | | ð.3 | Ō.2 | [†] 0.2 | [†] 0.3 | | |
| | t .0 | Ō.0 | ð .o | ъ.о | | | 1 ,6 | b .1 | b .1 | ð.2 | ţ | 0.7 | D.8 | ð.8 | ħ.? | ₫5 | 0 .3 | ð.2 | Ō.1 |
| | ð.o | Ō.0 | ð.o | т .о | ð.đ | | 1.2 | ð.1 | b .2 | b .4 | ħ.9 | <u>†.</u> 8 | 2.4 | ţ, | 1,9 | 1.p | 1 .5 | 2 | Ď.2 |
| | b .0 | b. o | ð.o | ħ.o | ō.o | b .0 | ð.1 | ta 1 | [†] 0.1 | [†] 0.4 | ð.9 | ⁺ 2.3 | ⁺ 4.1 | * 4.2 | * 2.5 | 1.0 | . 4 | ₩ | ђ.з |
| | Ō.0 | Ď .0 | ъ.о | t .o | [†] 0.0 | Ō.0 | Ō.0 | τþ | ð.1 | ð.2 | ð.5 | 1.7 | 4.2 | ⁺ 4.6 | [‡] 2.0 | t .6 | ð.2 | | ђ.з |
| | [†] 0.0 | Ō.0 | ð.o | Ъ .о | ð.o | , Ō.0 | ð .o | 1.0 | ъ .о | Ō.1 | ð.5 | 1.a | <u><u> </u></u> | | 2.1 | ð.5 | ð.2 | Ō.1 | ð.2 |
| | | <u>ħ.o</u> | ō.o | ō.0 | Ō.0 | b .0 | [†] 0.0 | 0.0 m | 1 0.0 | D .0 | | ð.1 | Ъ.З | CIRCL 0.3 | E 1 0.1 | b .1 | ð.0 | ð .o | ð.1 |
| | [†] 0.0 | [†] 0.0 | ^{0.} \$7 | 5°01′0 | ð.0 | 0.0 | All | | 77- | ð.0 | | \rightarrow | <u> </u> | <u>ð</u> .o | b .0 | b .0 | ð .0 | Ō.0 | Ō.1 |
| - | [†] 0.0 | [†] 0.0 | ð.o | 0.0 0.0 | Ū" \/ ð.o | 0.0 | | 11 t.0 | ⊽, 0,9∕ | <u></u> | <u></u> .о | ð.o | t0.0 | [†] 0.0 | 0.0 | 0 .0 | Ð.0 S | 670.1914/(| 3†8 ″ |
| - | t .0 | 0.0 | | <u>ħ.o</u> | ð.0 | ð.o | Ō.0 | Ō.0 | ð.0 | b.0 | ō.o | b .0 | ō.o | ō.o | b .0 | D .0 | ð.0 | ð.o | Ō.0 |
| | ð.0 | <u>†</u> .0 | [†] 0.0 | [†] 0.0 | [†] 0.0 | [†] 0.0 | . 0 | [†] 0.0 | ð.o (| LO.AY | 1.9-7 | N ^{t.0} | | 0.0 | - t .o | | <u> </u> | <u>_ħ.o</u> | <u>0.0</u> |
| | b .o | ±0.0 √ | C 1.0 136 | 0.0 | Ō.0 | <u></u> | 0.0 | (¹ .0 | (ST 0.0 | L CN | TY, V | VIDTH | KUA Var | 1D IE55) | . 0 | ō.o | b .0 | ō .0 | ð .0 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

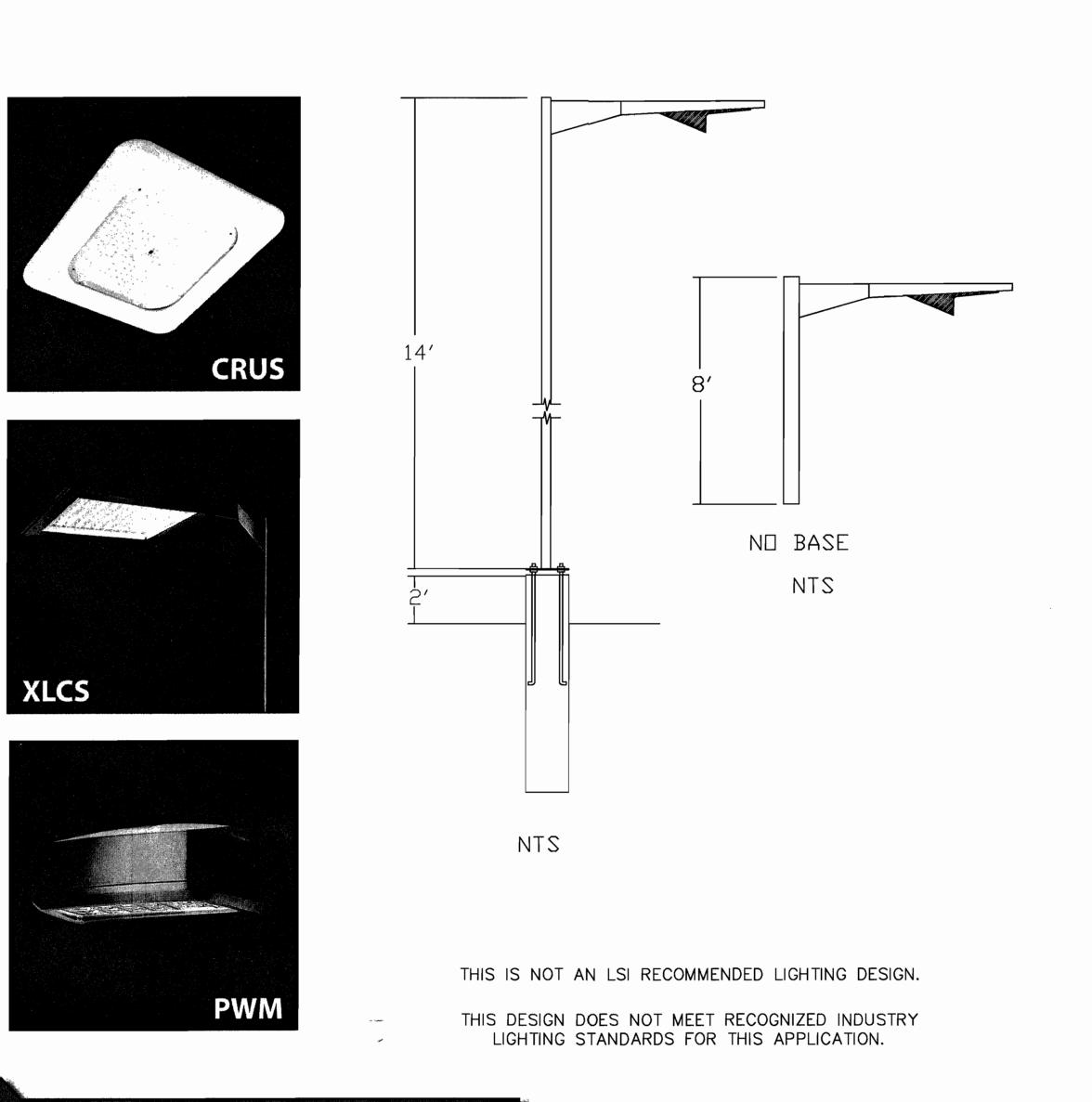
Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions.

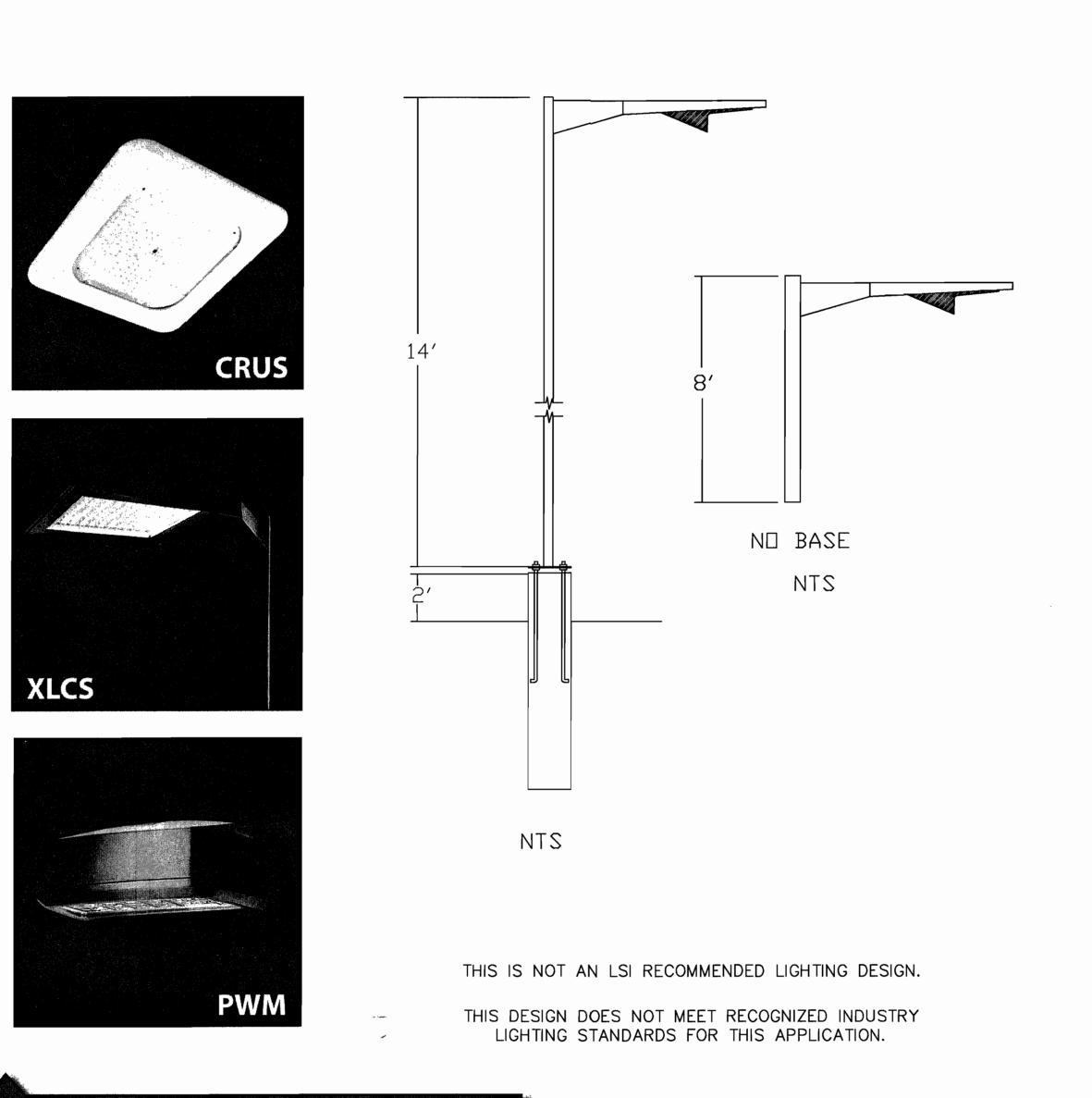
This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with The Illuminating Engineering Society (IES) approved methods. Actual performance of any manufacturer's luminaires may vary due to changes in electrical voltage, tolerance 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. Fixture nomenclature noted does not include mounting hardware or poles. This drawing is for photometric evaluation purposes only and should not be used as a construction document or as a final document for ordering product.

| Symbol | Qty | Label | Arrangement | Description | LLF | Arr. Lum. Lumens | Arr. Watte |
|------------|-----|-------|-------------|--|-------|------------------|------------|
| b . | 4 | A | SINGLE | XLCS-FT-LED-SS-CW-HSS-SINGLE-14'POLE+2'BASE DIMMED 30% | 0.700 | 9099 | 95.8 |
| | 6 | B | SINGLE | XLCS-FT-LED-SS-CW-HSS-SINGLE-8'POLE NO BASE DIMMED 80% | 0.200 | 9099 | 95.8 |
| | 3 | С | SINGLE | CRUS-SC-LED-VLW-50 - 14' MH DIMMED 20% | 0.800 | 9055 | 60.9 |
| Ŕ | 4 | D | SINGLE | PWM-S-LED-LW-CW MTD @ 10' | 1.000 | 1440 | 15.1 |
| | 12 | E | SINGLE | FREE VAC SIGN MTD @ 7' | 1.000 | 53 | 1.4 |









Click image to open Product Page

Photometric data for fixture type "E" is based upon another manufacturer's test and as a result can not be verified by LSI Industries for this calculation.

| Calculation Summary | | | | | | | |
|--------------------------|-------------|-------|-------|------|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| ALL CALC POINTS AT GRADE | Illuminance | Fc | 0.32 | 6.4 | 0.0 | N.A. | N.A. |
| CIRCLE 1 | Illuminance | Fc | 3.98 | 7.0 | 0.4 | 9.95 | 17.50 |
| CIRCLE 10 | Illuminance | Fc | 1.44 | 6.9 | 0.0 | N.A. | N.A. |
| CIRCLE 2 | Illuminance | Fc | 3,90 | 7.2 | 0.4 | 9.75 | 18.00 |
| CIRCLE 3 | Illuminance | Fc | 3.85 | 7.2 | 0.3 | 12.83 | 24.00 |
| CIRCLE 4 | Illuminance | Fc | 3.82 | 7.3 | 0.5 | 7.64 | 14.60 |
| CIRCLE 5 | Illuminance | Fc | 3.21 | 8.0 | 0.0 | N.A. | N.A. |
| CIRCLE 6 | Illuminance | Fc | 3.22 | 8.0 | 0.3 | 10.73 | 26.67 |
| CIRCLE 7 | Illuminance | Fc | 3.24 | 8.0 | 0.3 | 10.80 | 26.67 |
| CIRCLE 8 | Illuminance | Fc | 3.29 | 7.9 | 0.3 | 10.97 | 26.33 |
| CIRCLE 9 | Illuminance | Fc | 2.96 | 7.7 | 0.3 | 9.87 | 25.67 |
| PAY CANOPY | Illuminance | Fc | 15.26 | 21.2 | 6.6 | 2.31 | 3.21 |
| WALK ENT EXIT | Illuminance | Fc | 5.56 | 6.1 | 4.5 | 1.24 | 1.36 |
| WALK ENT EXIT_1 | Illuminance | Fc | 1.57 | 5.0 | 0.2 | 7.85 | 25.00 |
| WALK ENT EXIT_2 | Illuminance | Fc | 3.56 | 4.9 | 2.1 | 1.70 | 2.33 |
| WALK ENT EXIT_3 | Illuminance | Fc | 4.38 | 5.4 | 3.3 | 1.33 | 1.64 |
| PARKING AREA | Ittuminance | Fc | 1.95 | 8.0 | 0.0 | N.A. | N.A. |

| Total Projec Total Watts | | | |
|---|-------------|---|-----------------|
| | | IMEE FD. CDICIDENTI, DHID 4524 D 793-3201 + FAX (31) 793-682 | |
| LIGHTING | PROPOSAL | LD-14 | 1527-4 |
| BRIGHT WORX 14905 CLAYT CHESTERFIEL | ON RD | | |
| BY∶MWE | DATE:2/8/18 | REV:6~28-16 | SHEET 1 DF 1 |
| SCALE: 1"=20' | | 0 | 20 |

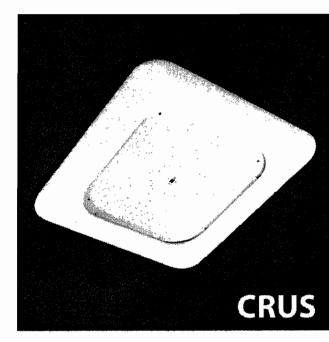


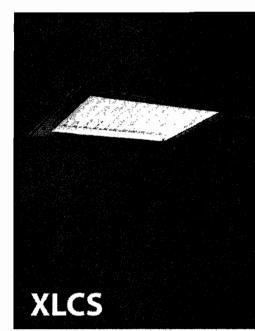
| | b.o b.o |
|---|---------------------|
| | b.o b.o |
| | ъ.о ъ.о ъ.о ъ.о |
| N71°08′29″F | b.o b.o |
| L/0,88 | b.o b.o |
| 9. | b.o b.o |
| | ъ.о <u></u> ъ.о |
| ت. م ف. ف. ف | b.o b.o |
| | ъ.o ъ.o |
| | t.o t.e |
| | b.0 b.0 |
| b.o | b.o b.o |
| | t.o t.o× |
| | t.o t.o |
| | δ.ο δ.ο |
| | ъ.о ъ.о П |
| | b.o b.o |
| | b.o b.o |
| | b.o b.o |
| | b.o b .o |
| | 6.0 t .0 |
| | |
| | |
| | |
| | |
| | b.a b.d |
| | ъ.q ъ.o |
| b.o | Ъ.0 Ъ. 0 |
| | b.0 b.0 |
| | Ъ.o. Ъ.o |
| | ъ.o ъ.o |
| | t.o t.o |
| b.o b.o b.o b.o b.o b.o b.o b.o b.o b.o b.o | ხ.ი ხ.ი |
| (STL CNTV IN RUAD | ხ.ი ხ.ი |
| b_0 | t.o t.o |
| 136+00 | |

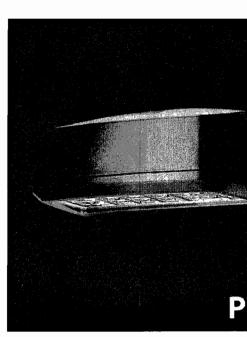
Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions.

This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with The Illuminating Engineering Society (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 anchitectural elements unless noted. Fixture nomenclature noted does not include mounting hardware or poles. This drawing is for photometric evaluation purposes only and should not be used as a construction document or as a final document for ordering product.

| Luminaire Sch | edule | | | | | | |
|---------------|-------|-------|-------------|--|-------|------------------|------------|
| Symbol | Qty | Label | Arrangement | Description | LLF | Arr. Lum. Lumens | Arr. Watts |
| | 4 | Α | SINGLE | XLCS-FT-LED-SS-CW-HSS-SINGLE-14'PDLE+2'BASE DIMMED 30% | 0.700 | 9099 | 95.8 |
| | 6 | В | SINGLE | XLCS-FT-LED-SS-CW-HSS-SINGLE-8'POLE NO BASE DIMMED 80% | 0.200 | 9099 | 95.8 |
| | 3 | C | SINGLE | CRUS-SC-LED-VLW-50 - 14' MH | 1.000 | 9055 | 60.9 |
| | 4 | D | SINGLE | PWM-S-LED-LW-CW MTD @ 10' | 1.000 | 1440 | 15.1 |
| | 12 | E | SINGLE | FREE VAC SIGN MTD @ 7' | 1.000 | 53 | 1.4 |







Click image to open

| Calculation Summary | |
|--------------------------|-------------|
| Label | СаісТуре |
| ALL CALC POINTS AT GRADE | Illuminance |
| CIRCLE 1 | Illuminance |
| CIRCLE 10 | Illuminance |
| CIRCLE 2 | Illuminance |
| CIRCLE 3 | Illuminance |
| CIRCLE 4 | Illuminance |
| CIRCLE 5 | Illuminance |
| CIRCLE 6 | Illuminance |
| CIRCLE 7 | Illuminance |
| CIRCLE 8 | Illuminance |
| CIRCLE 9 | Illuminance |
| PAY CANDPY | Illuminance |
| WALK ENT EXIT | Illuminance |
| WALK ENT EXIT_1 | Illuminance |
| WALK ENT EXIT_2 | Illuminance |
| WALK ENT EXIT_3 | Illuminance |
| PARKING AREA | Illuminance |

| NIGHT SECURITY LIGHTING | | | |
|-------------------------|-------|----------|----------|
| | NIGHT | SECURITY | LIGHTING |

| | 1000 | ALLIANCE RB CINCIPANT, DHID 45242 (513) 793-3200 • FAX (512) 793-6023 | USA |
|----------------------|---|--|---------------|
| BRIGHT \ 14905 CL | IG PROPOSA /ORX SECURIT AYTON RD TIELD, MO | | 527-4A |
| BY:MWE | DATE:2/8/18 | REV:6~28-18 | SHEET DF 1 |
| SCALE | 1″=20′ | 0 | 2 |

| 1 COLUMNOT IC | | . 0.00 | 0.0 | 0.0 | TATE OF | 1.1.1.1.1 | |
|---------------|-------|--------|--------|-----|---------|-----------|--|
| Illuminana | ie Fo | . 0.00 | 0.0 | 0.0 | | N.A. | |
| Illuminanc | re Fo | 0.08 | 0.1 | 0.0 | N.A. | N.A. | |
| Illuminano | ie Fo | 0.00 | 0.0 | 0.0 | N.A. | N.A. | |
| Illuminanc | ie Fo | 0.00 | 0.0 | 0.0 | N.A. | N.A. | |
| Illuminanc | ie Fo | 0.00 | 0.0 | 0.0 | N.A. | N.A. | |
| Illuminana | ie Fo | 3.28 | 3 7.9 | 0.3 | 10.93 | 26.33 | |
| Illuminanc | ie Fo | 0.00 | 0.0 | 0.0 | N.A. | N.A. | |
| Illuminanc | re Fo | 7.33 | 3 14.6 | 1.7 | 4.31 | 8.59 | |
| Illuminanc | ie Fo | 4.26 | 5.3 | 3.2 | 1.33 | 1.66 | |
| Illuminanc | ie Fo | 1.55 | 5.0 | 0.2 | 7.75 | 25.00 | |
| Illuminanc | re Fo | 3.56 | 4.9 | 2.1 | 1.70 | 2.33 | |
| Illuminanc | ie Fo | 3.63 | 4.8 | 2.0 | 1.82 | 2.40 | |
| Illuminanc | re Fo | 0.28 | 7.9 | 0.0 | N.A. | N.A. | |

Max

5.5

0.0

0.0

0.0

| 10 - 10 and a second se |
|--|
| |
| |
| |
| State and a state of the |
| a strain marker of the |
| S (S conserved and a second seco |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| State of Lot of |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

Units

Fc

FC

Fc

Fc

Avg

0.04

0.00

0.00

0.00



NTS THIS IS NOT AN LSI RECOMMENDED LIGHTING DESIGN. THIS DESIGN DOES NOT MEET RECOGNIZED INDUSTRY

LIGHTING STANDARDS FOR THIS APPLICATION.

Min

0.0

0.0

0.0

0.0

Avg/Min

N.A.

N.A.

N.A.

N.A.

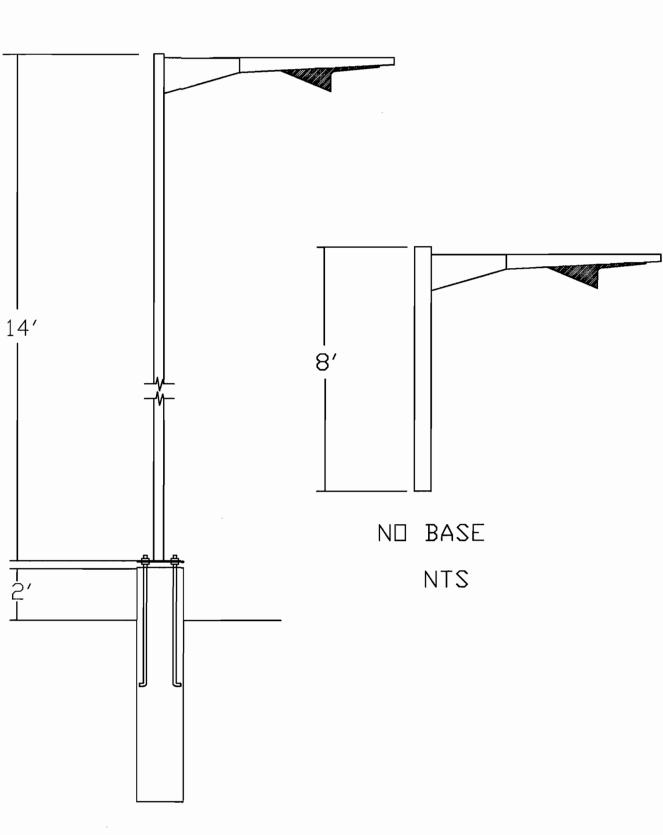
Ma×/Min

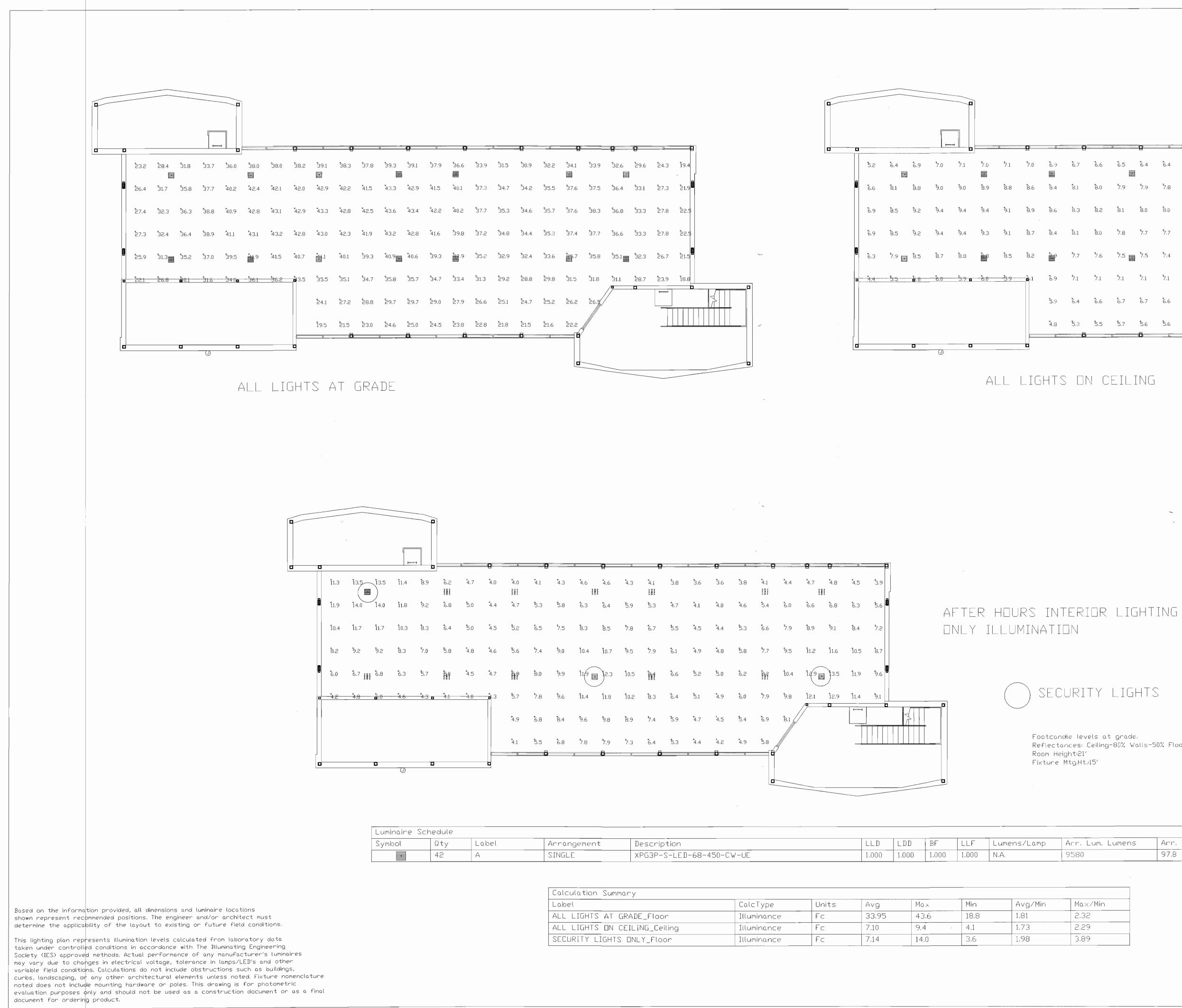
N.A.

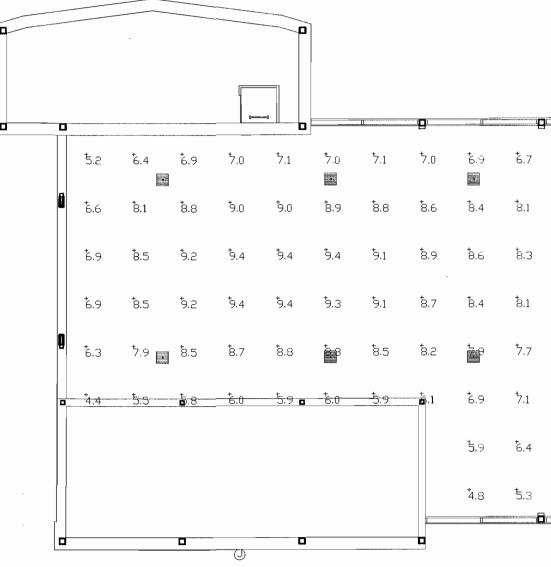
N.A.

N.A.

N.A.







| Arrangement | Description | LLD | LDD | BF | LLF | Lumens/Lamp | Ann. L |
|-----------------|--------------------------|-------|-------|-------|-------|-------------|--------|
| SINGLE | XPG3P-S-LED-68-450-CW-UE | 1.000 | 1.000 | 1.000 | 1.000 | N.A. | 9580 |
| | | | - | | | | - |

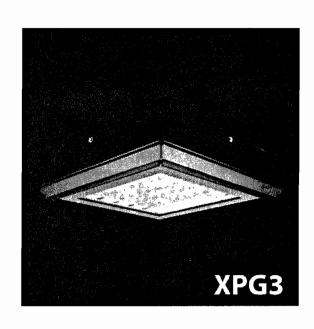
| Calculation Summary | | | A = | N4 | Miles | | Max |
|-------------------------------|-------------|-------|-------|------|-------|---------|------|
| Label | CalcType | Units | Avg | Maix | Min | Avg/Min | Max |
| ALL LIGHTS AT GRADE_Floor | Illuminance | Fc | 33.95 | 43.6 | 18.8 | 1,81 | 2.32 |
| ALL LIGHTS ON CEILING_Ceiling | Illuminance | Fc | 7.10 | 9.4 | · 4.1 | 1.73 | 2.25 |
| SECURITY LIGHTS DNLY_Floor | Illuminance | Fc | 7.14 | 14.0 | 3.6 | 1.98 | 3.89 |

| b.2 $b.1$ $b.0$ $b.0$ $b.0$ $b.7$ $b.5$ $b.6$ $b.7$ $b.8$ $b.7$ $b.4$ $b.8$ $b.5$ $b.0$ $b.8$ $b.7$ $b.7$ $b.7$ $b.7$ $b.7$ $b.6$ $b.7$ $b.8$ $b.7$ $b.7$ $b.8$ $b.7$ $b.8$ $b.7$ $b.8$ $b.7$ $b.8$ $b.7$ $b.7$ $b.8$ $b.7$ $b.8$ $b.7$ $b.8$ $b.7$ $b.8$ $b.7$ $b.8$ | Image: Normal state in the state in th | | | Ш | | | Q | | -11 | 0 | 1 | ī | 1 | 9 | | 8 | |
|---|--|---|--------------|------------------|------------------|------------------|--------------|------------------|------------|------------------|-----------------|------------------|------------------|------------------|-----------------|--|-----------------|
| B.2 $B.1$ $B.0$ $B.0$ 7.8 7.7 7.6 7.7 7.8 7.7 7.4 6.8 5.5 $B.0$ 7.8 7.7 7.7 7.6 7.5 7.6 7.7 7.8 7.7 7.4 6.8 5.5 $B.0$ 7.8 7.7 7.7 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.6 7.5 7.6 7 | b.2 $b.1$ $b.0$ $b.8$ $b.7$ $b.5$ $b.5$ $b.6$ $b.7$ $b.8$ $b.7$ $b.8$ $b.5$ $b.0$ $b.8$ $b.7$ $b.6$ $b.5$ $b.6$ | _ | . 6.6 | | ÷ 6.4 | ⁺ 6.4 | | † 6.2 | ÷.0 | 5.9 | ÷6.0 | | ÷.З | ÷.2 | 5.9 | 5.3 | [‡] .3 |
| b.0 $b.8$ $b.7$ $b.6$ $b.5$ $b.4$ $b.4$ $b.5$ $b.5$ $b.6$ $b.6$ $b.3$ $b.7$ $b.5$ $b.6$ $b.5$ $b.4$ $b.7$ $b.6$ $b.7$ $b.6$ $b.6$ $b.7$ $b.6$ $b.7$ $b.6$ $b.7$ $b.7$ $b.6$ $b.7$ $b.7$ $b.6$ $b.7$ $b.7$ $b.6$ $b.7$ $b.6$ $b.7$ $b.6$ $b.7$ $b.6$ $b.6$ $b.7$ $b.8$ $b.8$ $b.7$ $b.7$ $b.6$ $b.6$ $b.7$ $b.6$ $b.7$ $b.7$ $b.6$ $b.6$ $b.7$ $b.7$ $b.6$ $b.7$ $b.7$ $b.6$ $b.7$ $b.7$ $b.6$ $b.7$ $b.7$ $b.7$ | 8.0 7.8 7.7 7.6 7.5 7.4 7.5 7.5 7.6 7.6 7.5 7.6 7.6 7.7 7.6 7.5 7.6 7.6 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.5 7.6 <t< td=""><td></td><td>*8.0</td><td>₽.9</td><td>7,9</td><td>5.8</td><td>ħ.7</td><td>5,ځ</td><td>ት.2</td><td>٦.2</td><td>້ን.3</td><td>ל.5</td><td>້፟ን.6</td><td>ئ.6</td><td>ጎ.1</td><td>[‡]6.5</td><td>5.2</td></t<> | | * 8.0 | ₽.9 | 7,9 | 5.8 | ħ.7 | 5,ځ | ት.2 | ٦.2 | ້ን.3 | ל.5 | ້፟ን.6 | ئ .6 | ጎ.1 | [‡] 6.5 | 5 .2 |
| 7.6 7.5 7.4 3 7.2 7.2 7.2 7.3 7.3 7.0 6.4 5.2 7.1 7.1 7.1 7.0 6.9 6.9 6.8 6.8 6.7 6.2 5.8 5.2 4.1 6.6 6.7 6.7 6.6 6.6 6.5 6.4 6.3 6.0 5.4 5.4 | 7.6 7.5 7.4 7.3 7.2 7.2 7.2 7.3 7.3 7.0 6.4 5.2 7.1 7.1 7.1 7.0 6.9 6.9 6.8 6.7 6.5 6.2 5.8 5.2 4.1 6.6 6.7 6.7 6.7 6.6 6.5 6.4 6.4 6.3 6.0 5.4 5.2 5.2 4.1 | | ₿.2 | [†] 8.1 | [‡] 8.0 | ₿.0 | 7.8 | ئ .7 | 7.5 | ້ን.5 | 7.6 | ٦.7 | ئ .8 | ٦.7 | 7.4 | ⁺ 6.8 | 5.5 |
| 7.1 7.1 7.1 7.1 7.0 6.9 6.9 6.8 6.7 6.5 6.2 5.8 5.2 4.1 6.6 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 | 7.1 7.1 7.1 7.1 7.0 6.9 6.9 6.8 6.7 6.5 6.2 5.8 5.2 4.1 6.6 6.7 6.7 6.7 6.7 6.6 6.5 6.4 6.3 6.0 5.4 | | . 0 | 8 .ל | ٦.7 | Ť.7 | ٦.6 | 7.5 | 7.4 | ⁺ 7.4 | 7.5 | ٦.5 | [†] 7.6 | 7.6 | [†] .з | [‡] 6.7 | 5.5 |
| b.6 b.7 b.6 b.6 b.6 b.6 b.7 b.6 b.7 b.6 b.7 b.7 b.6 b.7 b.7 <td>b.6 b.7 b.6 b.6 b.5 b.4 b.3 b.0 b.4 b.4 b.3 b.4 b.4 b.4 b.4 b.3 b.4 b.4<td></td><td>٦.6</td><td>5,5 ₪</td><td>້ 7.5</td><td>7.4</td><td>+,</td><td>ћ.з</td><td>ħ.2</td><td>ל.e</td><td>^ל.2</td><td>†</td><td>ל.3</td><td>[†].3</td><td>0.ל</td><td>⁺6.4</td><td>5.2</td></td> | b.6 b.7 b.6 b.6 b.5 b.4 b.3 b.0 b.4 b.4 b.3 b.4 b.4 b.4 b.4 b.3 b.4 b.4 <td></td> <td>٦.6</td> <td>5,5 ₪</td> <td>້ 7.5</td> <td>7.4</td> <td>+,</td> <td>ћ.з</td> <td>ħ.2</td> <td>ל.e</td> <td>^ל.2</td> <td>†</td> <td>ל.3</td> <td>[†].3</td> <td>0.ל</td> <td>⁺6.4</td> <td>5.2</td> | | ٦.6 | 5,5 ₪ | ້ 7.5 | 7.4 | +, | ћ.з | ħ.2 | ל.e | ^ל .2 | † | ל.3 | [†] .3 | 0.ל | ⁺ 6.4 | 5 .2 |
| \$.6 \$.7 \$.6 \$.6 \$.5 \$.4 \$6.3 \$6.0 \$5.4 | \$6.6 \$6.7 \$6.6 \$6.5 \$6.4 \$6.3 \$6.0 \$5.4 | | ٦.1 | 节.1 | † 7.1 | ት.1 | ້ າ.0 | ⁺ 6.9 | ÷.9 | ÷.8 | . 6.8 | ÷6,7 | ÷.5 | [†] 6.2 | 5,8 | 5.2 | |
| 5.5 5.7 5.6 5.6 5.7 5.4 5.4 5.5 5.1 4.8 | 5.5 5.7 5.6 5.6 5.7 5.4 5.4 5.5 5.1 ⁴ .8 | | * 6.6 | * 6.7 | † 6.7 | ÷.6 | + 6,6 | ÷6.5 | . 4 | * 6.4 | ÷.3 | ÷.0 | 5.4 | / | | (************************************* | |
| | | | 5.5 | 5.7 | 5.6 | 5.6 | 5.7 | [†] 5.4 | 5.4 | 5.5 | 5.1 | ⁺ 4.8 | ll l | | | | |

SECURITY LIGHTS

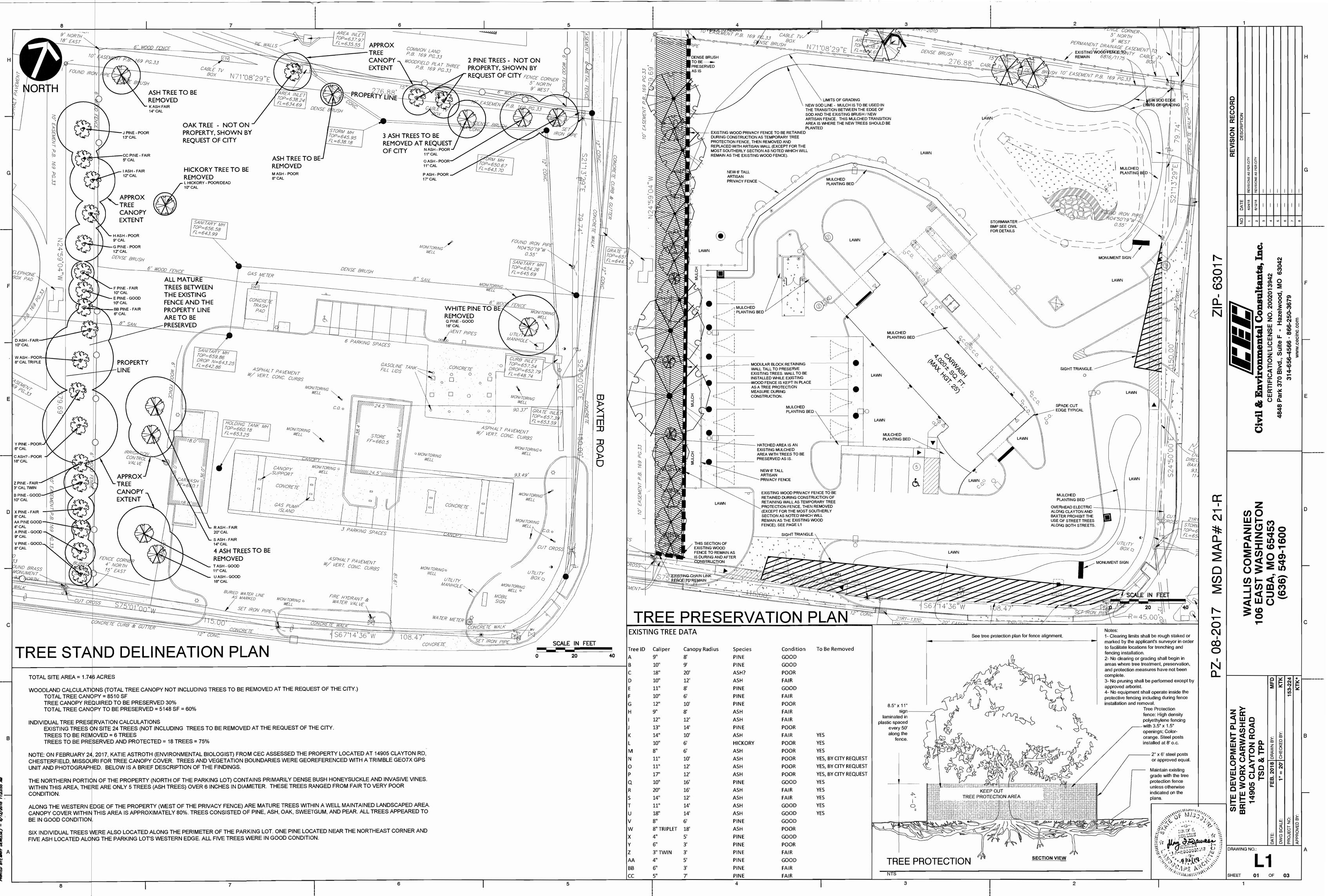
Footcandle levels at grade. Reflectances: Ceiling-80% Walls-50% Floor-20%

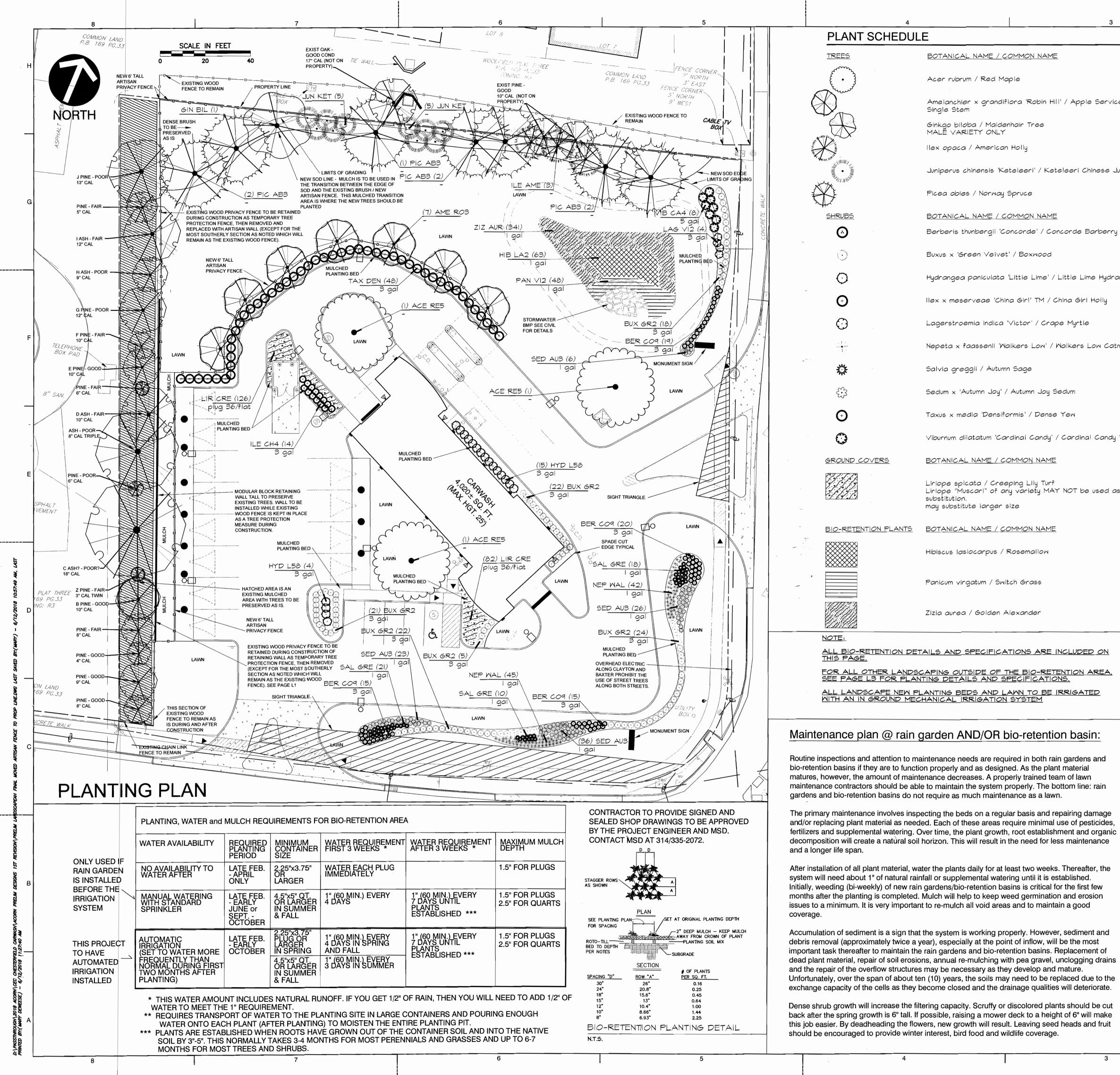
> . Lum. Lumens Arr, Watts 97.8 x/Min



Click image to enable slide show & use tool bar to navigate

Total Project Watts <u>Total Watts = 3031.801</u> 10000 ALLIANCE RD. CINCINNATI, DHID 45242 USA (513) 793-3200 x FAX (513) 793-6023 LIGHTING PROPOSAL LD-142294-1 BRITE WORX CAR WASH 14905 CLAYTON ROAD CHESTERFIEL D,MO SHEET BY:MWE DATE:4-06-18 REV:5-16-18 SCALE: 1″=8′





| | | | | 2 | | | | |
|-----------------|--|-----------------------------------|--------------------------|------------------------------------|---|----------------------------|----------|---|
| | CONT | CAL | SIZE | | QTY | | | |
| | - | 2.5 cal. | JILL | | 3 | | | н |
| ceberry | _ | 2.5 cal. | | | 7 | | | |
| Jobol I g | _ | 2.5 cal. | | | 1 | | | |
| | _ | 2.0 001. | 6' tall | | 3 | | | |
| luniper | | | 6' tall | | 10 | | | |
| onper | - | | 6' tall | | | | | |
| | <u>CONT</u> | | e tan | | 7 | | | REVISIONS AS PER CITY REVISIONS AS PER CITY REVISIONS AS PER CITY |
| ł | 3 gal | | | | <u>RTY</u> 69 | | | |
| | 3 gal | | | | 112 | | | VO DATE 1 4/24/18 3 6 8 |
| angea | 3 gal | | | | 19 | | | <u>α</u> γ ω μ Ν η - <u>Σ</u> |
| | 3 gal | | | | 14 | | 2 | |
| | 3 gal | | | | 4 | | 63017 | |
| mint | I gal | | | | 87 | | | onsultants 0. 2002013942 elwood, MO 630 0-3679 |
| | l gal | | | | 49 | | ZIP | Consultar Consultar Consultar Hazelwood, MO -250-3679 om |
| | l gal | | | | ୧୲ | | | tal Consu ENSE NO. 2002 F - Hazelwood 866-250-3679 cinc.com |
| | 3 gal | | | | 48 | | | mental C N/LICENSE N Suite F - Ha 5-4566 · 866-2 |
| √iburnum | 5 gal | | | | 8 | | | Environmental EERTIFICATION/LICENSE Park 370 Blvd., Suite F - F 314-656-4566 · 866- www.cecinc.co |
| | CONT | | | SPACING | QTY | | | & Enviro EERTIFICAT CERTIFICAT 8 Park 370 Blv 314-6 |
| | plug 36/flat | | | 16" o.c. | 208 | | | <mark>⊗</mark> |
| is a | | | | | | | | Civil 48 |
| | CONT | | | SPACING | QTY | | | |
| | l gal | . 42 J | | 30" o.c. | 63 | | | |
| | | | | 30" | 48 | | | |
| | l gal | | | 30" o.c. | 40 | | щ | 7 |
| | l gal | | | 18" o.c. | 34 | | 21 | |
| T t | | G TREE TO REMA | N = 18 | | | | MAP# | 545 600 |
| | | | | | | | MA | ASH ASH 10 6 49-1 |
| month | ns to determine t | he Ph (acidity) | level and | the nutrient l | , thereafter, every tw evels. A Ph range of | 5.2 to 7.6 is | MSD | - 54 × CC |
| | | | | | sulfate and sulphur | | Š | (63 AS |
| depar | tment/district. | | | | | | 17 | |
| self-su | | e help of the o | rganic ma | | d bio-retention basin psoil. In fact, the pre | | 08-2017 | C C |
| Additi | onal maintenanc | e might includ | le treatme | | of plants presenting | | | |
| cutting | r fungal problem gs, moving rocks up of areas need | that may dive | ert water fl | ow, planting r | seed collections and nore of a successfu | l harvesting I species, | -Z- | |
| | ks schedule | | , | | | | | MFD KTK 153-224 KTK* |
| Immed | diate tasks: wate | — r plant materia | l for fourte | en (14) cons | ecutive days unless | sufficient | | |
| | l is recorded. | ispect for mos | quito lanv | a (after four (A |) days of standing v | vistor) | | |
| Re-mu as nee | lich any void are | as by hand. W | ater durin | g extreme dro | ought periods, early | in the morning, | | PMENT CARWA TTON R IG PLA |
| diseas | ly: visually inspe e (use least toxic ation of water. | ct and repair e c approach). I | erosion. A nspect dra | lso visually in: ainage paths a | spect for pest infesta and cells to assure p | ation and/or proper | | VELO ORX (CLAY ANTIN ANTIN 1" = 20' |
| Betwe 30TH, | <u>a year:</u> remove e en march 15TH-/ remove and rep d treatment. | April 30TH and | l again be | tween Octob | esh mulch layer. er 1ST-November n considered | Stander Mid 20 | 14 | SITE BRITE 149 |
| Once a vegeta | <u>a year:</u> check the ation material if n emain on trees. | | | | | May Johnson | 100 M | DRAWING NO.: |
| Every | two to three year | <u>'s:</u> remove old | mulch lay | ver before app | olying a new layer. | 5 12 19 192 AN | C. C. L. | L2 |
| | | | | 2 | | " Weight Henrichter | | SHEET 02 OF 03 |

LED CANOPY LIGHT - LEGACYTM (CRUS)



DOE LIGHTING FACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.



Consult Factory

Class 1, Division 2 - Available on LW and SS

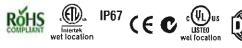
T5 Temperature Classification – The surface temperature of this product will not rise above 100°C., within a 40°C ambient.

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

US & Int'l. patents pending.

- HOUSING Low profile, durable die-cast, aluminum construction, providing a reliable weather-tight seal.
- LEDS Features an array of select, mid-power, high brightness, high efficiency LED chips; 5000K color temperature, 70 CRI (nominal).
- DRIVE CURRENT Choice of Very Low Wattage (VLW), Low Wattage (LW), Super Saver (SS), High Output (HO) or Very High Output (VHO).
- **OPTICS / DISTRIBUTION -** Choice of Symmetrical or Asymmetrical, which directs light through a clear tempered glass lens, to provide a uniform distribution of light to vertical and horizontal surfaces.
- DPTICAL UNIT Features an ultra-slim 7/8" profile die-cast housing, with a flat glass lens. Unit is water-resistant, sealed to an IP67 rating. Integral designed heat sink does not trap dirt and grime, ensuring cool running performance over the life of the fixture.
- PRESSURE STABILIZING VENT Luminaire assembly incorporates a pressure stabilizing vent breather to prevent seal fatigue and failure.
- HAZARDOUS LOCATION Designed for lighter than air fuel applications. Product is suitable for Class 1 Division 2 only when properly installed per LSI installation instructions (consult factory).
- DRIVER State-of-the-art driver technology superior energy efficiency and optimum light output. Driver components are fully encased in potting for moisture resistance. Complies with IEC and FCC standards, 0-10 V dimming supplied standard with all drive currents.
- DRIVER HOUSING Die-cast aluminum, wet location rated driver/electrical enclosure is elevated above canopy deck to prevent water entry, provide easy "knock-out" connection of primary wiring and contributes to attaining the lowest operating temperatures. available. Seals to optical housing via one-piece molded silicone gasket.
- OPERATING TEMPERATURE -40°C to 50°C (-40°F to +122°F)
- ELECTRICAL Universal voltage power supply, 120-277 VAC, 50/60 HZ input. Drivers feature two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Scenario 1, Location Category C.
- FINISH Standard color is white and is finished with LSI's DuraGrip® polvester powder coat process. DuraGrip withstands extreme weather changes without cracking or peeling.
- INSTALLATION One person installation. No additional sealant required. Installs in a 12" or 16" deck pan. Deck penetration consists of a 4" hole, simplifying installation and water sealing. Unit is designed to quickly retrofit into existing Scottsdale (4") hole as well as openings for Encore and Encore Top Access and to reconnect wiring for the SC/ECTA without having to relocate the conduit. Retro panels are available for existing Encores (see back page) as well as kits for recessed and 2x2 installations (see separate spec sheets). Support brackets are provided standard, to prevent sagging of deck,
- SHIPPING WEIGHT 27 pounds (single pack), 48 pounds (double pack).
- EXPECTED LIFE Minimum 60,000 to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.
- WARRANTY Limited 5-year warranty.
- LISTING UL and ETL listed to UL 1598, UL 8750 and other U.S. and International safety standards. Suitable for wet locations.
- PHOTOMETRICS Please visit our web site at www.isi-industries.com for detailed photometric data.

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









LED CANOPY LIGHT - LEGACY[™] (CRUS)

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: CRUS SC LED HO 50 UE WHT

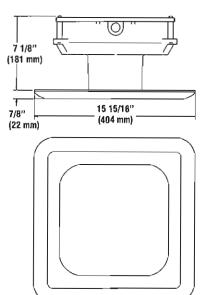
| Prefix | Distribution ¹ | Light Source | Drive Current | Color Temperature | Input Voltage | Finish | Options |
|--------|---|--------------|--|-------------------|---|--|---|
| CRUS | SC - Standard Symmetric AC - Asymmetric | LED | VLW - Very Low Walt LW - Low Watt SS - Super Saver HO - High Output VHO - Very High Output | 50 - 5000K | UE - Universal Voltage (120-277V) 347 - 480V | WHT - White 8R2 - 8ronze 8LK - 8lack | HL - Hazardous location available on LW and SS |

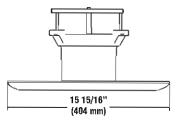
FOOTNOTES:

1- AC distribution utilizes a reflector which allers the look from a standard S distribution.

| ACCESSORY ORDERING INFORMATION (Access | ories are field installed) | | |
|--|----------------------------|--|--------------|
| Description | Order Number | Oescription | Order Number |
| Retrofil Panels - EC / ECTA / SCF to CRU, for 16' Deck Panel | 525946 | Kil - Hole Plugs and Silicone (enough for 25 retrofils) ¹ | 1320540 |
| Retrofit Panels - ECTA / SCF to CRU, for 12' Deck Panel | 530281 | 1- Consists of (25) 7/8' hole plugs and (1) 10.3 oz tube of RTV | |
| Retrofit 2x2 Cover Panel Blank (no holes) | 357282 | | |
| Retrofit RIC Cover Panel Blank (no holes) | 354702 | | |

DIMENSIONS





| | | Lume | ns | Watts | , LP | W |
|-------|------------------------|-------|-------|-------|------|-----|
| | | SC | AC | SC/AC | SC | AC |
| a. | VLW - Very Low Watt | 9055 | 7632 | 61 | 148 | 125 |
| White | LW - Low Wall | 10525 | 8884 | 74 | 142 | 120 |
| C00 | SS - Super Saver | 13674 | 11595 | 98 | 140 | 118 |
| | HO - High Oulpul | 18633 | 15145 | 132 | 141 | 115 |
| | VHO - Very High Output | 22418 | 17262 | 159 | 141 | 109 |



LED WALL SCONCE (PWM)



DOE LIGHTING FACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.

| LIGHT OUTPUT - PWM Distribution/Lumens (NomInal) | | | | | | | | | |
|---|--------------|------|----|--|--|--|--|--|--|
| | Type S Watts | | | | | | | | |
| Cool White | LW | 1400 | 15 | | | | | | |
| Cool | HO | 5200 | 56 | | | | | | |
| White | LW | 1300 | 15 | | | | | | |
| Neutral White | H0 | 4900 | 56 | | | | | | |

LEO Chips are frequently updated therefore values may increase.

US & Int'l. patents pending

ENERGY SAVING CONTROL OPTIONS – DIM – 0-10 volt dimming enabled with controls by others.

- EXPECTED LIFE Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.
- LEDS Available with select high-brightness LEDs in Cool White (5000K) or Neutral White (4000K) color temperature, 70 CRI.
- **DISTRIBUTION/PERFORMANCE** Type S (Standard Symmetric). Exceptional uniformity creates bright environment at lower light levels.
- HOUSING One-piece die-cast aluminum housing is smoothly contoured rectangular shape. Mounting hardware is stainless steel or electro-zinc plated steel. Housing and optical unit are sealed with extruded silicone gasket; supply conductors with molded EPDM bushing.
- **OPTICAL UNIT** Clear tempered optical-grade flat glass lens sealed to the aluminum optic housing creates an IP65 rated unit. Pressure stabilizing breather allows super-tight protection while preventing cycling from building up internal pressures and vacuums that can stress optical unit seals.
- WALL MOUNTING Galvanized-steel universal wall mounting plate easily mounts directly to 4" octagonal or square junction box. EPDM gasket is supplied to be installed between mounting plate and junction box, sealing junction box from entrance of water. Universal plate permits fixture to be mounted in uplighting (indoor only) or downlighting position.
- POLE MOUNTING XPMA (for square) or XPMAR (for round) allows mounting to poles in single and D180 configurations. Use with 3" reduced drilling pattern.
- ELECTRICAL Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277VAC (50/60Hz input) or 347-480VAC.
- **DRIVER -** Available in Low Wattage (LW) and High Output (HO) drive currents (Drive currents are factory programmed). Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver can be easily accessed and removed. Optional 0-10V dimming available with controls by others.
- OPERATING TEMPERATURE -40°C to +50°C (-40°F to +122°F)
- FINISH Fixtures are finished with LSI's OuraGrip[®] polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling.
- WARRANTY LSI LED fixtures carry a limited 5-year warranty.
- PHDTOMETRICS Please visit our web site at <u>www.lsi-industries.com</u> for detailed photometric data.
- SHIPPING WEIGHT (in carton) 27 lbs./12.2Kg
- **LISTING** UL listed to ANSI/UL1598, UL8750 and other U.S. and international safety standards. Suitable for wet locations in downlight position. For a list of the specific products in this series that are DLC listed, 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 requirements.





LED WALL SCONCE (PWM)

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: PWM S LED HO CW UE WHT PCI 120

| Prefix | Distribution | Light Source | Drive Current | Color Temperature | Input Voltage | Flnish | Optional Controls | Optional Sensor/Options |
|--------------------------------|-----------------------------|--------------|-----------------------------------|---|---|---|--|--|
| PWM - LED Wall Sconce | S - Slandard Symmetrical | LEO | LW - Low Watt H0 - High Output | CW - Cool While (5000K) NW - Neutral White (4000K) | UE - Universal Voltage (120-277) 347-480 120 ¹ | BLK - Black BRZ - Bronze GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Salin Verde Green WHT - White | Wireless Control System ^{2,3} (blank) - None PCM - Platinum Control System PCMH - Host/Satellite Platinum Control System GCM - Godd Control System GCM - Kost/Satellite Gold Control System OIM - 0-10 volt dimming (required for satellite fixtures) Stand-Alone Control Olark) - None DIM - 0-10 volt dimming (required for satellite fixtures) | Sensor PCI120 - 120V Button-Type Photocell PCI208 - 208V Button-Type Photocell PCI240 - 240V Button-Type Photocell PCI277 - 277V Button-Type Photocell PCI347 - 347V Button-Type Photocell Options XPMA4 - Pole Mounting Adaptor w/ Fixture Back Plate for Use with Square Poles ⁴ XPMAR4 - Pole Mounting Adaptor w/ Fixture Back Plate for Use with 4' 0.0. Round Poles ⁴ XPMAR5 - Pole Mounting Adaptor w/ Fixture Back Plate for Use with 5' 0.0. Round Poles ⁴ |

ACCESSORY ORDERING INFORMATION² (Accessories are field installed)

| reserved and subserved and subserve | noo aro noro motanoo) | | |
|---|-----------------------|-----------------------------|---------------------|
| Description | Order Number | Description | Order Number |
| PWM Polycarbonate Shield | 244657 | DFK208, 240 - Double Fusing | DFK208,2405 |
| PWM SW BLK - Surface Wiring Box (Available in black only) | 356915BLK | DFK48D - Oouble Fusing | DFK480 ^s |
| FK120 - Single Fusing | FK120 ⁵ | FK347 - Single Fusing | FK347 ^s |
| FK277 - Single Fusing | FK277⁵ | | |

FOOTNOTES:

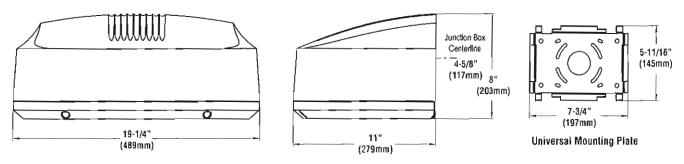
1- On Low Watt (LW) drive current, 120V only is DLC qualified. Specify 120 in place of UE.

2- For wireless controls information and accessories, see Controls section.

3- Requires a SiteManager and override switch.

4- Designed with 3* reduced drilling pattern. For S or D1B0 mounting configuration only.
 5- Fusing to be installed in a compatible junction box supplied by contractor.

DIMENSIONS



BUG LISTING

PWM - TYPE S

| Orive Current | Color Temp.* | Lumens | Watts | LER | BUG Rating |
|---------------|--------------|--------|-------|-----|------------|
| НО | CW | 5184 | 56 | 93 | B2-U0-G1 |
| HU | NŴ | 4917 | 56 | 88 | B2-U0-G1 |
| 00 | CW | 1439 | 15 | 95 | B1-U0-G0 |
| SS | NW | 1310 | 15 | 85 | B1-U0-G0 |

* Color Temperature: NW-4000K, CW-5000K



Project Name

Catalog #_

LED GEN3 PARKING GARAGE LIGHT (XPG3)



DOE LIGHTING FACTS

Department of Energy has verified representative product lest data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.

| LIGHT OUTPUT - XPG3 | | | | | | | | | |
|---------------------|----------|-----------|------------------|---------------------|-------|--|--|--|--|
| | | # of LEDS | Lumens Type 5 | (Nominal) Type S | Walts | | | | |
| | 350 mA | 50 | 4718 | 6187 | 56 | | | | |
| Cool White | 330 IIIA | 68 | 5814 | 7512 | 75 | | | | |
| | 450 mA | 50 | 5743 | 7606 | 73 | | | | |
| | | 68 | 7082 | 9580 | 98 | | | | |
| ŭ | 550 mA | 50 | 6656 | 8952 | 90 | | | | |
| | | 68 | 8397 | 10712 | 125 | | | | |
| | 350 mA | 50 | 4245 | 5998 | 56 | | | | |
| lite | 350 IIIA | 68 | 5695 | 7051 | 75 | | | | |
| Š. | 450 mA | 50 | 5137 | 7313 | 73 | | | | |
| Neutral White | 400 IIIA | 68 | 6919 | 8584 | 98 | | | | |
| Ner | 550 mA | 50 | 5950 | 8456 | 90 | | | | |
| | 220 IIIA | 68 | 7875 | 9880 | 125 | | | | |

This product, or selected versions of this product, meet the standards

listed below. Please consult factory for your specific requirements.

IP65 IP67

wet location Func

ARRA

LED Chips are frequently updated therefore values may increase.

US patent D603081 & D611188 & 7828456 and US & Int¹. patents pending SMARTTEC[™] ENERGY SAVING FEATURES:

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

- OCCUPANCY SENSING (IMS) Optional internal passive infrared motion sensor activated switching of luminaire light levels. High level light is activated when automobile or passerby enters sensor target zone. High light level is increased to full bright in 1-2 seconds upon detection. Low light level (30% of maximum drive current) is activated when target zone is absent of motion activity for ~ 2 minutes. Upon inactivity, light level is gradually ramped down (10-15 sec.) to low level to allow eyes time to adjust. Two sensor detection optics are available. The wide optic has a coverage range of 40 feet diameter at mounting heights of 8 feet to 12 feet. The narrow optic has a coverage range of 20 feet diameter at a mounting height of 8 feet to 12 feet.
- **DIMMING (DIM)** Optional 0-10 volt dimming enabled, with controls.
- BI-LEVEL SWITCHING (BLS) Optional bi-level switching responds to external line voltage signal from separate controller or sensor, with low light level decreased to 30% maximum drive current.
- **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.
- LEOS Two LED array choices; 50 and 68. Each feature high-brightness LEDs in Cool White (5000K) or Neutral White (4000K) color temperature, 70 CRI.
- ORIVER CURRENT OPTIONS Available in 350mA, 450mA or 550mA drive currents.
- **OISTRIBUTION/PERFORMANCE** Ultra-high efficiency reflectors provide solid performance for typical spacings and heights, exceptional uniformity with vertical illumination and full cutoff. Ideal when maximum spacing is desired without sacrificing desired lumen levels. Meets RP20 recommendations while delivering unique control of distribution to minimize glare. Optional diffused lens available to reduce visibility of diodes.
- HOUSING/OPTICAL UNIT The XPG3 features a slim 7-1/8" profile. Housing is die-formed aluminum with a gasketed clear flat tempered glass lens providing a water-resistant seal. Weather-tight aluminum enclosure contains factory prewired driver to ensure no water entry and to eliminate need to open fixture completely. Optical unit is IP67 rated.
- MOUNTING Not intended for recessed mounting in enclosed ceilings. Standard mounting is rigid 3/4" pendant mount or direct surface mount to 4" (102mm) octagon box (box by others). Pendant and direct mount standard with 48" leads and 8" leads respectively. Direct mount features standard quick mount plate with elongated key hole slots to allow alignment of fixtures.
- ELECTRICAL Universal voltage power supply (120-277 VAC, 50/60 Hz). Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Scenario 1, Location Category C. Emergency LED battery back-up/driver operates 10 LEDs for a minimum of 90 minutes when primary AC power failure occurs.
- **ORIVER** Proprietary, state-of-the-art SmartTec driver technology designed specifically for LSI LED light sources provides unsurpassed system efficiency. Driver will operate with input of 120V thru 277V (50/60 Hz). LSI components are fully encased in potting material for IP65 moisture resistance. Driver complies with IEC and FCC standards.

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

- FINISH Fixtures are finished with LSI's DuraGrip[®] polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling.
- WARRANTY Limited 5-year warranty.
- PHOTOMETRICS Please visit our web site at <u>www.lsi-industries.com</u> for detailed photometric data.
- SHIPPING WEIGHT Standard fixture 21 lbs. (9.5 kg). Fixtures with battery back-up 28 lbs. (13 kg)
- LISTING ETL listed to U.S. and International safety standards. Suitable for wet locations. For a list of the specific products in this series that are DLC listed, please consult the LED Lighting section of our website or the Design Lights website at www.designlights.org.



(E 🖉

___ Fixture Type _____

LED GEN3 PARKING GARAGE LIGHT (XPG3)

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: XPG3P 5W LED 68 450 CW UE WHT DIM

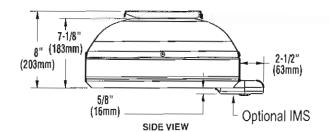
| | Source | LEDs | Current | Color Temperature | Input Vollage | Finish | Optional Controls | Optional Sensors/Options |
|------------------------------|--------|----------|---|---|---|---|--|---|
| V - Type 5 Wide Symmetric | LED | 50 68 | 350 - 350mA 450 - 450mA 550 - 550mA | CW - Cool White (5000K) NW - Neutral White (4000K) | UE - Universal Electronic (120-277) 347 - 347 voll 480 - 480 voit | WHT - White BLK - Black MSV - Metallic Silver | Wireless Control System 2.3 (blank) - None PCM - Platinum Control System PCM - Platinum Control System Control System GCM - Gold Control System GCM - Gold Control System GCM - Gold Control System GCM - Gold Control System GCM - Gold Control System GCM - Gold Control System GCM - Gold Control System GCM - Gold Control System GLM - On Volt dimming (required for satellite fixtures) Stand-Alone Control (blank) - None DIM ⁵ - 0-10V Dimming (Irom external signal) BLS ⁶ - 8-it-evel Switching (Irom external signal - required 120-277v controls system voltage) | Sensor IMS - Integral Motion Sensor ^{7.} Options BB - Battery Backup ⁹ CW8B - Cold Weather BB ⁹ DFL - Oiffused Lens ¹⁰ |

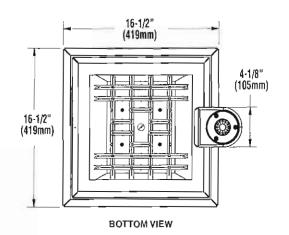
| ACCESSURY URDERING INFORMATION | (Accessorie | es are field installed) | |
|--|----------------------|--|--|
| Description | Drder Number | Description | Order Number |
| XPG3 Bird Guard | XPG3_BG | RPS8120 - WL Remote Box with 120V External Photocell | C/F ¹¹ C/F ¹¹ |
| Polycarb Sheild | XPG PCS ⁸ | RPSB208-277 - WL Remote Box with 208-277V External Photocell | C/F |
| ROSB120 - WL Remote Box with 120V Occupancy Sensor | C/F ¹¹ | | |
| ROSB277 - WL Remote Box with 277V Occupancy Sensor | C/F ¹¹ | | |

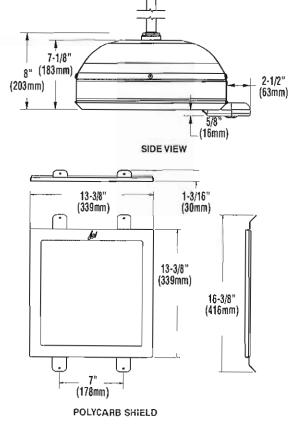
FOOTNOTES:

- 1 Pendant stems must be ordered separately; specify length.
- 2 For wireless controls information and accessories, see Controls section.
- 3 Requires a SiteManager and override switch. Not compatible with BLS or IMS option.
- 4 Consult factory for available configurations.
- 5 Not compatible with IMS or BLS option.
- 6 Not compatible with wireless controls system, DIM or IMS option.
- 7 Nol compatible with wireless controls system, DIM or BLS option.
- 8 Polycarbonate Shield not available with IMS
- 9 Battey Backup & cold weather battery backup available in UE only. Not available with PCM or GCM wireless controls.
- 10 Diffused lens reduces light output. Consult factory.
- Includes PCM or GCM. To be used in conjunction with PCM or GCM options in the fixture. Consult factory.

DIMENSIONS









Project Name _____ Catalog #_____ J Fixture Type _____

LED AREA LIGHTS - LSI SLICE SMALL (XLCS)



DOE LIGHTING FACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.

| LIG | нт | OUTPL | IT - XLCS | ; – | _ | _ | |
|------------------|--------------|--------|--------------|--------------------|--------------------|---------|--------------------|
| | | Type 3 | L Type FT | umens (N Type 5 | lominal) Type5E | TypeFTE | Watts (Nominal) |
| ie, ei | \$ \$ | 10100 | 11400 | 11400 | 8200 | 7800 | 97 |
| Cool | HO | 14000 | 15500 | 15700 | 11600 | 10600 | 140 |
| Neutral White | SS | 9700 | 10400 | 10800 | 7900 | 7500 | 97 |
| Neu | HO | 13400 | 14700 | 15200 | 11000 | 10500 | 140 |

LED Chips are frequently updated therefore values may increase.

RECEIVED

JUL - 2 2018

City of Chesterfield Department of Public Services US & Int'l. patents pending

- SMARTTEC[™] LSI drivers feature integral sensor which reduces drive current, when ambient temperatures exceed rated temperature.
- ENERGY SAVING CONTROL OPTION DIM 0-10 volt dimming enabled with controls by others.
- EXPECTED LIFE Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.
- LEDS Select high-brightness LEDs in Cool White (5000K), or Neutral White (4000K) color temperature, 70 CRI.
- **DISTRIBUTION/PERFORMANCE** Types 3, FT, 5 and enhanced 5E and FTE. Exceptional uniformity creates bright environment at lower light levels. Internal Louver (IL) option available for improved backlight control without sacrificing street side performance for FT distribution.
- HDUSING One-piece, die-formed aluminum housing contains factory prewired driver. Wiring access door (with safety lanyard) located underneath.
- **OPTICAL UNIT** Clear tempered flat glass lens permanently sealed to weather-tight aluminum optic frame creates an IP65 rated optical unit (includes pressure-stabilizing breather).
- MOUNTING Tapered rear design allows fixtures to be mounted in 90° and 120° configurations without the need for extension arms. Use with 3" reduced drilling pattern. A round pole plate is required for mounting to round poles. Wall mount available by ordering wall mounting bracket (BKS-XBO-WM-*-CLR). Proprietary pole quick mount accessories available with horizontal mounting or fixed 15° angled mounting (PQMH-KIT-CLR and PQM15-KIT-CLR) for mounting to square poles. See Accessory Ordering Information chart for all brackets.
- ELECTRICAL Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277 VAC (50/60Hz input), and 347-480 VAC. Optional button-type photocells (PCI) are available in 120, 208, 240, 277 or 347 volt (supply voltage must be specified).
- DRIVER Available in SS (Super Saver) and HO (High Output) drive currents. Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.
- OPERATING TEMPERATURE -40°C to +50°C (-40°F to +122°F)
- FINISH Fixtures are finished with LSI's DuraGrip[®] polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Available in black, bronze and white. Other standard LSI finishes available. Consult factory.
- WARRANTY LSI LED fixtures carry a limited 5-year warranty.
- PHOTOMETRICS Please visit our web site at <u>www.lsi-industries.com</u> for detailed photometric data.
- SHIPPING WEIGHT (in carton) One fixture: 17.5 lbs. (7.9 kg). Packed two per carton: 30 lbs. (13.6 kg).
- LISTING UL listed to U.S. and international safety standards. Suitable for wet locations. For a list of the specific products in this series that are DLC listed, 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 requirements.



Fotures comply with ANSI C136.31-2010 American National Standard for Roadway Lighting Equipment - Luminaire Vibration 1.5G requirements.



LED AREA LIGHTS - LSI SLICE SMALL (XLCS)

LUMINAIRE ORDERING INFORMATION

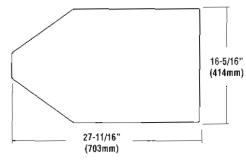
XLCS BLK PCR S LED SS 50 UE TYPICAL ORDER EXAMPLE:

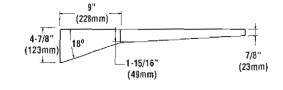
| Prefix | Distribu | ution | Light Source | Orive Current | Color Temperalure | Input V | /ollage | Finish | Dj | otions |
|--------|---|---------------------|-----------------|-------------------------------------|--------------------------|---|---|--|--------------------------------|---|
| | 3 - Type III 5 - Type V FT - Forward Thro 5E - Type V Enhar FTE - Foward Thro | nced ow Enhanced | LED | SS - Super Saver HD -High Oulput | 50 - 5000K 40 - 4000K | Vol (120- 347 Universa (347 | niversal lage 277V) -480 al Vollage -480V) | BLK - Black 8RZ - 8ronze WHT - White | PCI347 - 34 IL - Internal L | ial signal) Pholocells DV V - 208-277V 7V ouver (available stribution only) toelectric |
| LUMI | NAIRE EPA CI | | ACCESSO | <u>RY ORDERING INFO</u> | DRMATION (/ | Accessories are | e field installe | d) | | |
| | Horizontal Mou | ating Only | Descr | íption | | Order Numbe | r | Description | | |
| - | Single | 0.4 | 8KS-X80-WN | ·*-CLR Wall Mount Brack | tel | 382132CLR | DFK208, 240 | Double Fusing (208V, 240V) | | DFK208, 240 |
| | D180° | 0.8 | XLCS-3/FT-HS | S (Black only) | | 6031628LK ¹ | DFK480 Deu | ble Fusing (480V) | | DFK480 ² |
| | | | X3RPP Round | Pole Plate for 3' RTP Pole | IS | 408273CLR | FK347 Single | Fusing (347V) | | FK347 ² |
| | D90° | 0.6 | X4RPP Roun | d Pole Plate for 4' Poles | | 379967CLR | PQMH-KIT-CL | R Square Pole Quick Mount Ho | prizontal Bracket | 582328CLR |
| - × | 🖬 T90° | 1.4 | X5RPP Roun | d Pole Plate for 5' Poles | | 379968CLR | POMIS-KIT-C | LR Square Pole Quick Mount Br | acket w/fixed 15° An | igle 582329CLR |
| ļ | TN120° | 1.4 | FK120 Single | Fusing (120V) | | FK120 ² | ALSC UNV TL | 5 - AirLink 5 Pin Twist Lock Cor | ntroller | 661409 |
| | | 1.4 | FK120 Single | Fusing (120V)FK | | FK277 ² | ALSC UNV TL | 7 - AirLink 7 Pin Twist Lock Cor | ntroller | 661410 |
| - 2 | 09 0° | 1.6 | | | | | | | | |

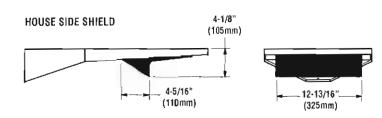
EPA. Consult Factory.

Fusion and the second of the band hole of pole.
 Photocell must be ordered separately. 7 pin standard. See Accessories.

DIMENSIONS









1

LED AREA LIGHTS - LSI SLICE SMALL (XLCS)

BUG LISTING

| XLCS - Type 3 | | | | | | | | |
|---------------|--------------|--------|-------|-----|-------------------|--|--|--|
| Drive Current | Color Temp.* | Lumens | Watts | LER | BUG Rating | | | |
| | CW | 14,020 | 143 | 98 | B3-U0-G2 | | | |
| HO | CW-HSS | 8815 | 146 | 60 | B2-U0-G2 | | | |
| | NW | 13,421 | 143 | 94 | B3-U0-G2 | | | |
| SS | CW | 10,126 | 97 | 105 | B3-U0-G2 | | | |
| | NW | 9719 | 97 | 101 | B3-U0-G2 | | | |

XLCS - Type 5E

| Drive Current | Color Temp.* | Lumens | Watts | LER | BUG Rating |
|---------------|--------------|--------|-------|-----|------------|
| HO | CW | 11,581 | 146 | 79 | B4-U0-G2 |
| | NW | 10,996 | 146 | 75 | 84-U0-G2 |
| SS | CW | 8202 | 96 | 85 | B3-U0-G2 |
| | NW | 7908 | 96 | 82 | 83-U0-G2 |

Drive Current Color Temp.* Lumens Watts LER **BUG Rating** 139 CW 15,535 112 B3-U0-G2 CW-HSS 12,489 139 90 B1-U0-G2 HO CW-IL 14,384 138 104 B3-U0-G2 NW 14,694 146 100 B3-U0-G2 10,499 B1-U0-G2 NW-HSS 144 73 12,763 144 B2-U0-G2 NW-IL 89 96 CW 11,383 118 B2-U0-G2 CW-HSS 96 9099 95 B1-U0-G2 SS CW-IL 10,509 96 109 B2-U0-G2

10,410

7699

9328

NW

NW-HSS

NW-IL

XLCS - Type FT

XLCS - Type 5

| Drive Current | Color Temp.* | Lumens | Walls | LER | BUG Rating |
|----------------------|--------------|--------|-------|-----|------------|
| HO | CW | 15,674 | 138 | 113 | B4-U0-G2 |
| | NW | 15,184 | 146 | 104 | B4-U0-G2 |
| SS | CW | 11,449 | 96 | 119 | B3-U0-G2 |
| | NW | 10,762 | 96 | 112 | B3-U0-G1 |

| XLCS - Type FTE | | | | | | | | |
|-----------------|--------------|--------|-------|-----|-----------------|--|--|--|
| Drive Current | Color Temp.* | Lumens | Walts | LER | BUG Rating | | | |
| | CW | 10585 | 141 | 75 | B2-U0-G2 | | | |
| НО | CW-HSS | 7810 | 146 | 53 | B1-U0-G2 | | | |
| | NW | 10,499 | 146 | 72 | 82-U0-G2 | | | |
| | NW-HSS | 7721 | 146 | 53 | B1-U0-G2 | | | |
| | CW | 7752 | 96 | 81 | <u>B1-U0-G2</u> | | | |
| SS | CW-HSS | 5676 | 96 | 59 | B1-U0-G2 | | | |
| | NW | 7493 | 96 | 78 | B1-U0-G2 | | | |
| | NW-HSS | 5517 | 96 | 57 | B1-U0-G2 | | | |

* Color Temperature: NW-4000K, CW-5000K

108

78

B2-U0-G2

B1-U0-G2

95 B2-U0-G2

96

99

98



1

1



RECEIVED MAY - 2 2018 City of Chosterfield Department of Public Services

Architecture Planning Construction Management www.osmarchitecture.com

April 23, 2018

Ms. Cassie Harashe, AICP Project Planner City of Chesterfield 690 Chesterfield Parkway West Chesterfield, Missouri, 63017

RE: Brite WorX, 14905 Clayton Road

Dear Cassie,

Per your request, I am submitting this Architect's Statement of Design for review and comment.

Section C:

- (1) The submittal provides a site relationship with maximum buffer to surrounding properties while also maintaining a higher than minimum street frontage buffer providing a gentle transition from street to the development.
- (2) The submittal provides safe movement of all types throughout the site with separate and distinct pathways. The orientation of the building on site takes advantage of solar angles and creates pockets of visual interest throughout the site experience. Parking is primarily oriented away from the intersection view to the side and rear of the development.
- (3) The submittal uses the existing topography, as much as practical, to maintain the existing character. Topographical changes required complement the existing topography.
- (4) The submittal attempts use topography changes to minimize retaining wall use. Where retaining walls are proposed, they are intended to be low (less than 4') and used to protect existing mature trees to maintain a landscape buffer between the site and neighboring buildings.

Section D:

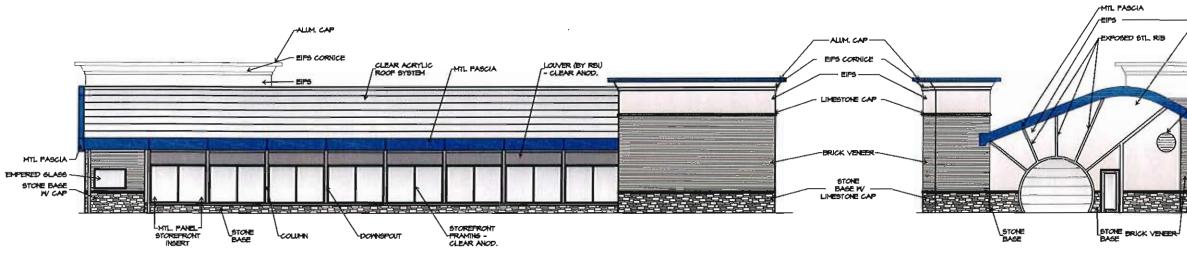
- (1) The submittal shares building scale compatibility and elements with the Walgreens opposite the site at the larger element and with the Petro-Mart and office building at the intersection at the smaller element. Human scale is achieved through use of recognizable scale materials and horizontal banding to reduce the visual scale of the vertical elements. Generic scale is achieved by site orientation and building massing to enhance the rhythm along the street.
- (2) The submittal relies on articulated vertical elements (towers) to physically and visually contrast the main building's low, linear form. Roof top screening is integral to the design elements, in contrast to the surrounding properties. Overhangs and tower element offsets at the entry and exit provide a transition into the facility. Highly efficient lighting combined with the building orientation with respect to the solar angles provides better energy efficiency.

Architect's Statement of Design Brite WorX, 14905 Clayton Road Page 2

- (3) The submittal's use of different and compatible materials provides visual interest, reduces visual scale and are complimentary to the adjacent properties visible from the intersection. All materials proposed are durable to reduce maintenance requirements. Contrasting pavement color is incorporated into the proposal.
- (4) The submittal preserves many existing mature trees, primarily along the buffer/perimeter of the site. The additional perimeter landscaping follows the rhythm and theme of the existing. Landscape screening has been provided along the perimeter of the site and screening is provided internally to the landscaping to provide a visual barrier from off site. The internal screening material is masonry and complimentary to the building material. Building landscaping is grouped in clusters, primarily shrubs, to provide visual interest and soften the hard edges at ground level. Additional individual trees are proposed to add points of interest. Street landscaping is also clustered and varied to provide interest and focal points along the street. Parking and drive landscaping is fully protected from vehicular and pedestrian traffic. Trash enclosure materials are complimentary to the building materials and also screened by landscaping.
- (5) The signage will be reviewed under a separate process to comply with City requirements.
- (6) The lighting will be reviewed under a separate process to comply with City requirements.

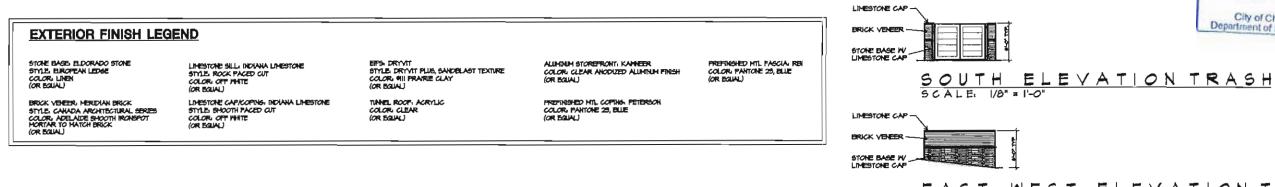
I believe this submittal meets the Chesterfield Architectural Guidelines for the reasons stated above. If you have any questions, please call.

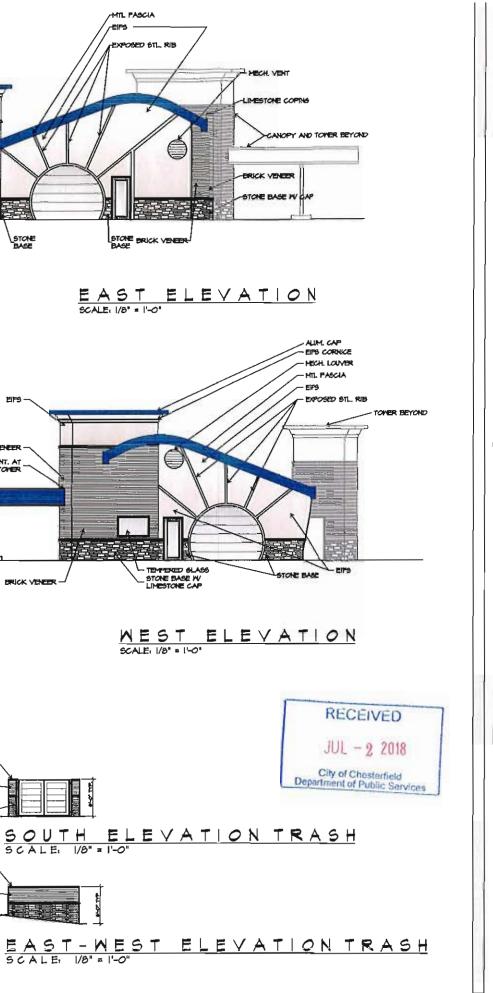




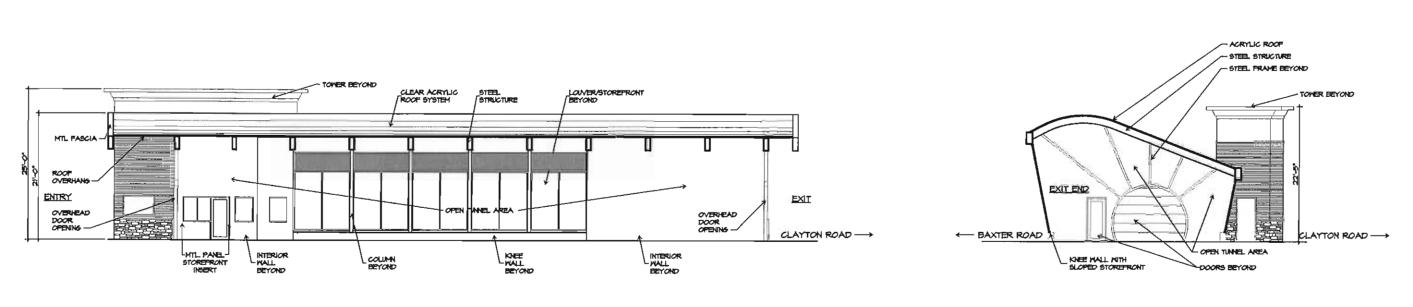
SOUTH ELEVATION SCALE: 1/8" = 1'-0"





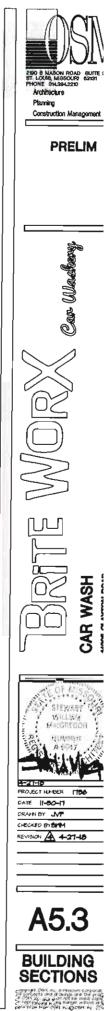


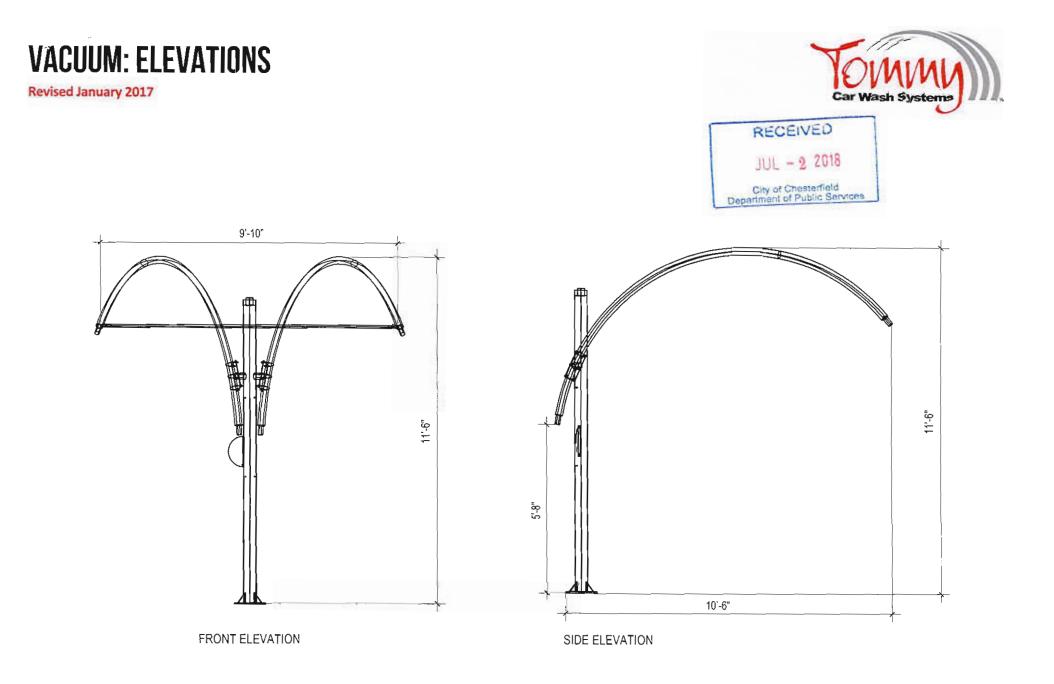




SECTION LOOKING NORTH

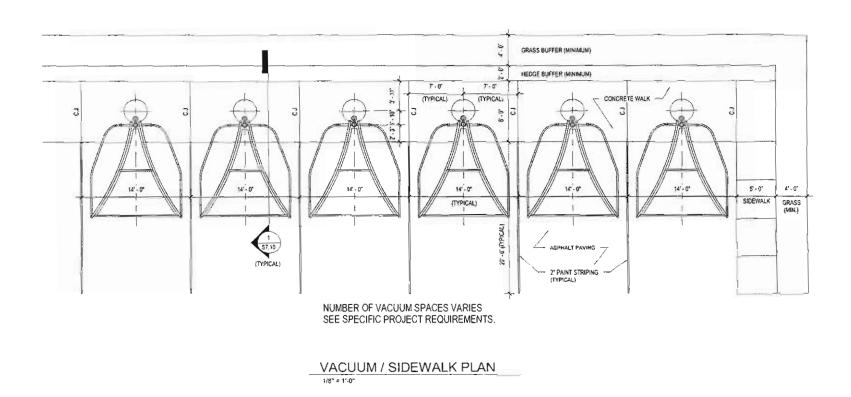






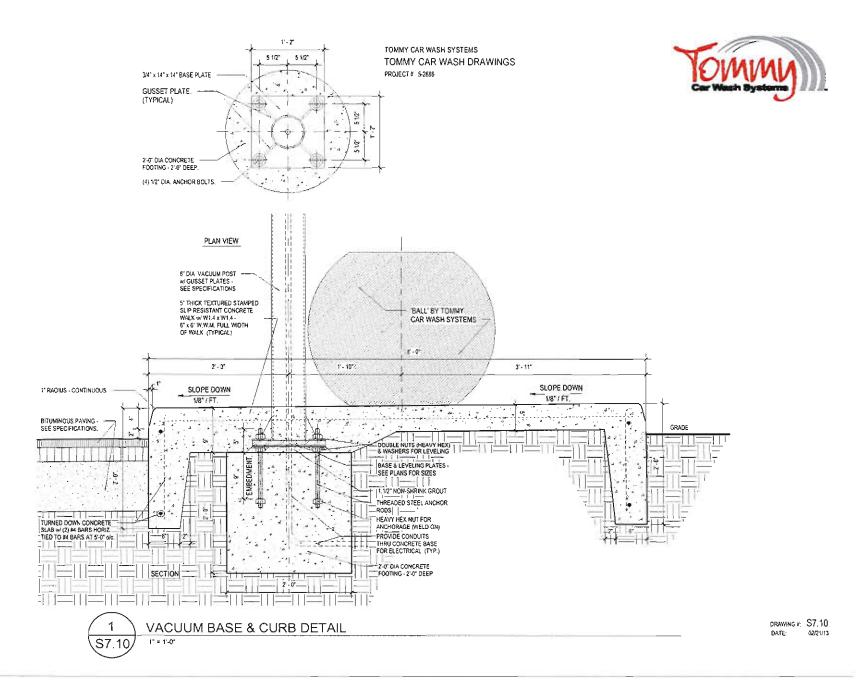
TOMMY CAR WASH SYSTEMS TOMMY CAR WASH DRAWINGS PROJECT # 5-2686





.

DRAWING # \$7.09 DATE: 03/22/13

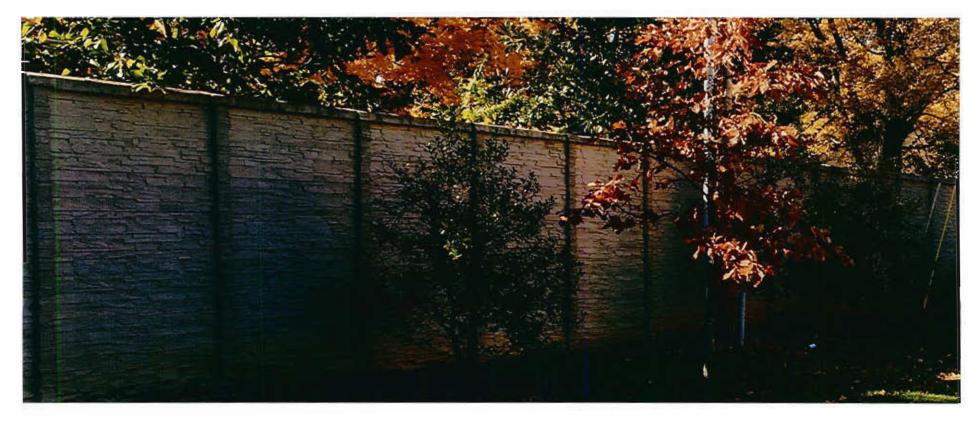


SITE ELEMENT EXAMPLES

RETAINING WALL



ARTISAN FENCE



TRASH ENCLOSURE







ARCHITECTURAL BUILDING MATERIALS

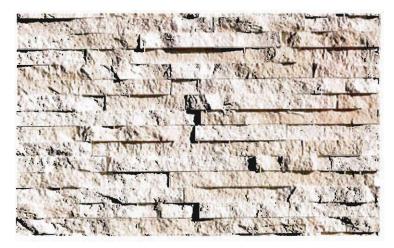
Chesterfield Brite Worx Materials



Dryvit, 111 Prairie Clay



Meridian Brick, Canada Architectural Series, Adelaide Smooth Ironspot



Eldorado Stone, Europen Ledge, Linen



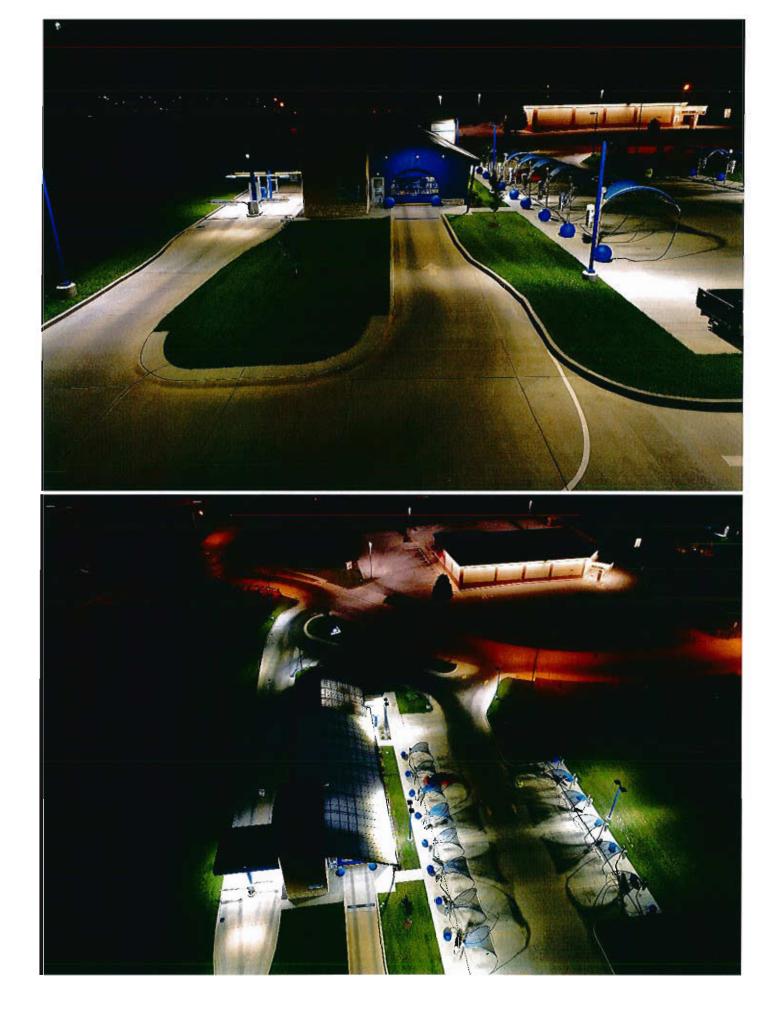


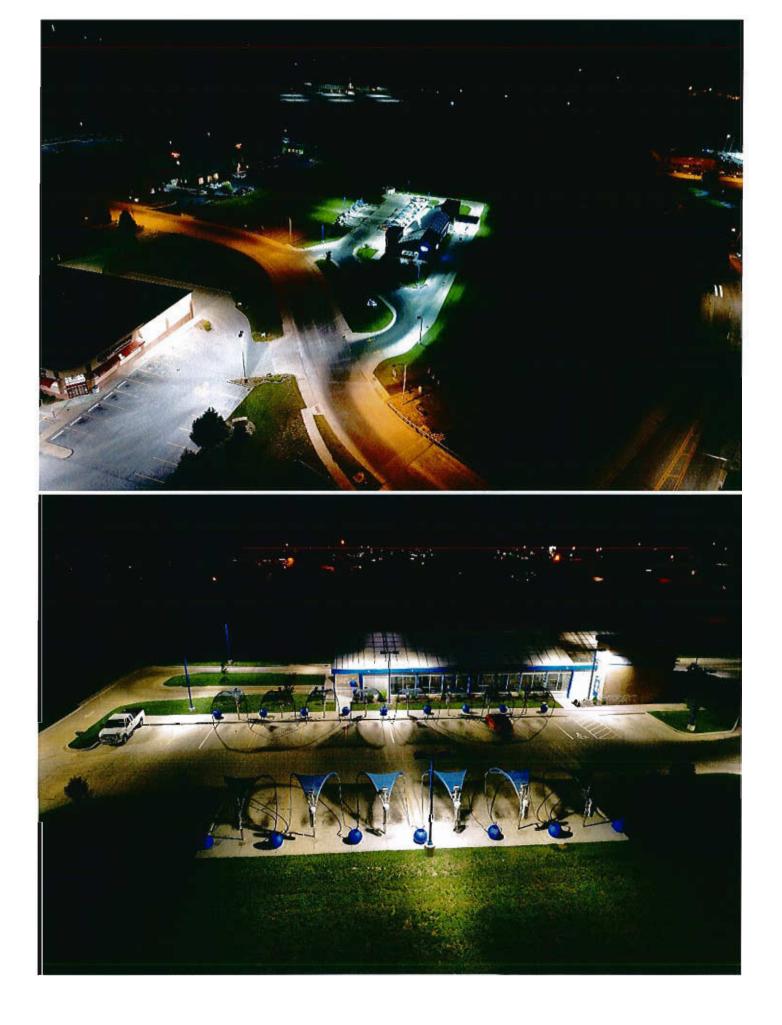


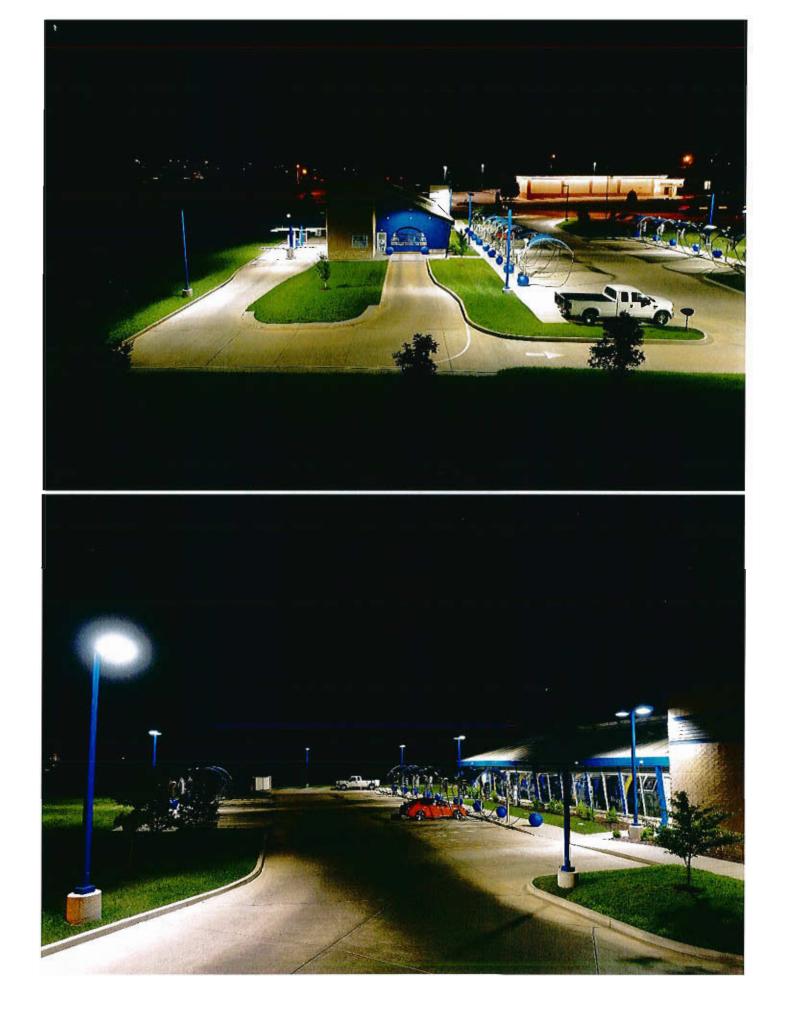


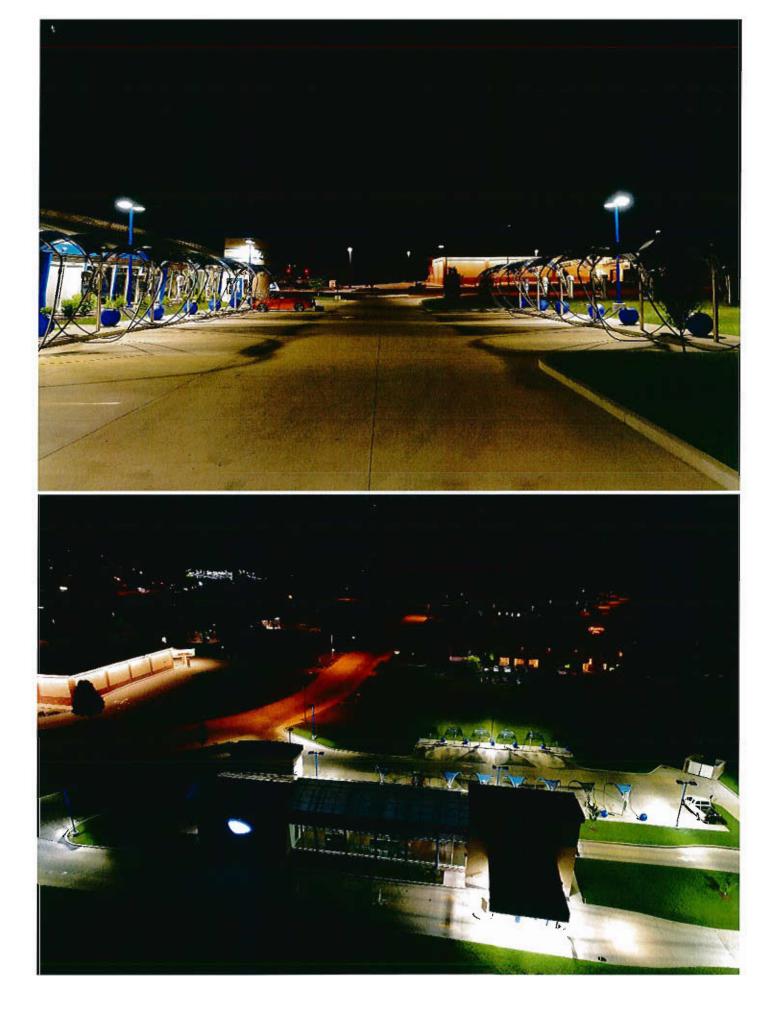












Cassandra Harashe

| From: | Debbie <dbrbeb3@gmail.com></dbrbeb3@gmail.com> |
|-----------------|--|
| Sent: | Wednesday, July 04, 2018 4:42 PM |
| То: | Dean.Berger@metaltek.com; Dan Hurt; Michael Moore; Cassandra Harashe; Robert |
| | Goldsmith; Rob Garrison; Dick Goldbaum; Skip; Bruce Affleck |
| Subject: | Briteworx Carwash |
| | |
| Follow Up Flag: | Follow up |
| Flag Status: | Flagged |
| | |

Although we have attended every meeting concerning the Briteworx carwash we will not be able to attend the Chesterfield County Council Meeting this July 9. We would like to apprise you of the ongoing situation as we see it.

We never thought this corner of Baxter and Clayton should be allowed to have a tunnel carwash with outside vacuums. We were told this was a better solution to having a 24 hr. gas station/ carwash and convenience store. And if we did not accept this the Wallis company was prepared to sue Chesterfield.

Then and now our concerns are traffic at the intersection, noise pollution, and an undesirable architectural fit for our neighborhood. One of our concerns has been realized. Two traffic accidents have happened recently. On June 1 a fatal accident occurred at Baxter and Clayton in front of the Golds Gym. Two people died in that accident. Two weeks later a three car accident occurred in front of the Mobil station on Baxter. Thankfully we are not aware of any injuries and no one was walking on the sidewalks.

The Wallis Company will never be held accountable for any accidents. But lets be honest, putting more traffic congestion will not help our neighborhood of homes, schools and retail be any safer.

The Wallis Company in one of our meetings assured us that the architecture of this tunnel carwash would not look like the prototype Briteworx on Lindbergh Rd. They even promised us they would use building material that would make it resemble the center where the restaurant Mia Sorella is located. That way it would blend with our neighborhood and not look like it belonged on Manchester Road. We were at the last architectural meeting and the renderings of this Briteworx Carwash look to be extremely similar to the one on Lindbergh. There was no toning down of the garish blue detail.

One of the members of the Chesterfield architectural review board pointed out that the ceiling of the carwash at night would look like a lighted spaceship.

We are asking that the council members and the architectural review board to please hold the Wallis Co accountable for how this carwash blends into our neighborhood. We have residential homes on two sides of this building, and once you drive past this site there are more homes, schools, and churches. This is not Manchester Road. It does not need to have the garish blue colors to attract attention.

We also hope that Chesterfield will make the Wallis Company keep up the standards of the property and appearance of the Carwash. You only have to look at the Mobil station that they own on this property to see our concerns. Sincerely,

Debbie and Dean Berger 2457 Baxton Way Chesterfield, Mo 63017

Sent from Mail for Windows 10

Cassandra Harashe

Subject:

FW: Briteworx Carwash

From: Debbie Berger [mailto: Sent: Wednesday, May 16, 2018 4:33 PM To: Barbara McGuinness <BMcGuinness@chesterfield.mo.us>; Dan Hurt <DHurt@chesterfield.mo.us>; Cassandra Harashe <CHarashe@chesterfield.mo.us> Cc: Robert Goldsmith < > Subject: Re: Briteworx Carwash

Cassie, Chesterfield City Council

My wife and I attended the architectural review meeting Thursday May 10 and witnessed the presentation by the Wallis group for the Briteworx carwash.

We have been part of almost every meeting as this has progressed and we were disappointed in what the final renderings offered.

From the very first meeting we had with the Wallis Company we were led to believe this Briteworx Carwash would look like the carwash on Lindbergh road. We visited it several times and thought it was too garish for our neighborhood. Several meetings later where we had residents and councilmen they told us when asked about the architecture that they had no idea what this new Briteworx would look like. They indicated they would build it to fit our neighborhood. We assumed they would be true to their word and tone it down. They even said they would try to make it look like the strip mall at Clayton and Henry roads. But It basically looks exactly like the Briteworx on Lindbergh Blvd.

All along it has been our hope that if this was to go through, at least it would be designed in such a way that it would blend into the neighborhood. Two sides of the carwash abut to residential areas, and the other commercial businesses

on the corners are all neutral structures.

Their presentation did address some of the issues and included earth tone brick and stone which fit into the area. The amount of stone they are using is very minimal. We are concerned about the blue. It really needs to be eliminated.

We had made it clear to Wallis that the bright blue trim needed to be reduced or eliminated completely, but we see it is still predominate in the rendering.

This might be needed to attract attention had this been on Lindbergh or Manchester Road, but not on Clayton and Baxter. Look at the WaterWay Wash on Clayton and Woodsmill, it is brick with very little accent colors.

We had hoped that the only blue would be part of the signage on the property.

Speaking of signage, we did not see where they presented anything on signage. We would hope that the architectural committee would require that the signage be presented for review.

If present and past behavior is any indication of how the Wallis Company will treat this property we have to make certain they start from the beginning with an aesthetically pleasing building. You only have to look at how poorly the Wallis Company has maintained the Mobil station to understand our concerns are serious.

Respectfully,

Dean and Debbie Berger

Cassandra Harashe

Importance:

| Subject: | FW: Letter of concern |
|--------------|---------------------------------------|
| Attachments: | Article for West County Magazine.docx |
| | |

High

From: Richard Goldbaum [mailto:] Sent: Tuesday, May 22, 2018 3:42 PM To: Michael Moore <MMoore@chesterfield.mo.us>; Barbara McGuinness <BMcGuinness@chesterfield.mo.us>; Dan Hurt <DHurt@chesterfield.mo.us> Cc: Cassandra Harashe <CHarashe@chesterfield.mo.us>; 'Debbie Berger' < >; Bob Goldsmith < Subject: Letter of concern Importance: High

The Dan Hurt, Michael Moore and Barbara McGuiness,

As a residents of Woodfield subdivision, we have made it our responsibility to stay informed about the proposed changes to the Baxter and Clayton property which is now a Mobil station. The proposed car wash has been a point of concern for Woodfield residents for a long time. We and many of our neighbors have spent many hours going to meetings related to the Wallis Company's efforts to build a Briteworx Carwash on that corner. With the outstanding help from our City Councilmen, Dan Hurt and Randy Logan, many substantial changes were finally made to the first proposal.

Now it has come to our attention that significant architectural changes that we thought had been agreed to are not reflected in the proposed architectural renderings for the project. Specifically, we are concerned that the proposed structure will be totally out of context to the architectural integrity of Clayton Rd. As we mentioned in our letter to the editor of the West County Magazine, Clayton Rd. is an iconic treasure in West St. Louis County. A trip from 141 to Clarkson Rd. takes one through both commercial and residential neighborhoods. Churches and schools are also proudly positioned along that prestigious roadway. There are even other car washes on that stretch of Clayton Rd. They easily blend into the environment, to a point that some drive by them not even realizing they are there. All we are asking is that Briteworx be designed to complement the Clayton Rd. architectural culture.

Please require that they reduce, if not eliminate, the gaudy bright blue trim. Add more brick similar to those used in the commercial buildings on the south west corner of Clayton and Henry. The rendering of the Clayton and Baxter Briteworx does not reflect what the signage will look like and where it will be located. That is an important factor that needs your review.

We thank you for your consideration and commitment to keeping Chesterfield and Clayton Rd a place we can all be proud of.

Sincerely,

Dick & Jo Ann

Richard and Jo Ann Goldbaum 2371 Baxton Way Chesterfield, MO 63017