



III. C.

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

Architectural Review Board Staff Report

Project Type: Site Development Section Plan

Meeting Date: October 23, 2014

From: John Boyer
Senior Planner

Location: 111 St. Luke's Center Drive

Applicant: BSA Life Structures and Stock & Associates Consulting Engineers, Inc.

Description: **St. Luke's Hospital Northwest Campus 5th ASDSP**: An Amended Site Development Section Plan, Amended Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 38.28 acre tract of land zoned "MU" Medical Use District located northwest of the intersection of South Woods Mill Road and Brookings Park Drive.

PROPOSAL SUMMARY

The request is for construction of a 106,000 square foot Medical Office building. The subject site is zoned "MU" Medical Use District and is governed under the terms and conditions of City of Chesterfield Ordinance 2796.

ZONING HISTORY OF SUBJECT SITE

The subject property was originally zoned "NU" Non-Urban District. In 2005, the portion of the site governed under Ordinance 2224 was rezoned to "MU" Medical Use District. The northern section of the subject property (Parcel D) was rezoned from "NU" Non-Urban and "R-1" Residence District to "MU" via ordinance 2372 in 2006. In 2007, a Board of Adjustment variance request was granted by the City of Chesterfield from Ordinance 2372 to allow a 25 foot front yard setback along Woods Mill Rd. in lieu of the required 50 foot setback. In 2008, Ordinance 2499 was approved which repealed Ordinance 2372. This ordinance amended parking standards and setbacks for the northern portion of the site. Recently, Ordinance 2796 was approved by the City of Chesterfield which repealed Ordinance 2499 and placed the entire northwest campus under one ordinance. Multiple Site Development Plans, Concept and Section Plans have been amended since 2006.



Figure 1: Site Photo

STAFF ANALYSIS

General Requirements for Site Design:

A. Site Relationships

This is a 38.28 acre tract which makes up the northwest campus (west of Hwy 141) of the St. Luke's facility. The 106,000 square foot proposed medical office building will be connected to the existing 144,200 square foot medical structure on site. Additional surface parking is planned to accommodate this addition. This is the first expansion under Ordinance 2796 which allowed a total of 834,000 square feet of building floor area.

B. Circulation System and Access

No additional access points are proposed with this addition. The site will continue to utilize current points of access off Brooking Park Drive to the south and S. Woods Mill Road to the east.

C. Topography

The subject site is between a creek to the west and S. Woods Mill Road and Hwy 141 to the east. The western portion of the site sits on the bluff of the creek. All structures will sit higher on this lot than the adjacent roadways to the east and residential developments to the west. Associated with the proposed development and existing topography of the area is a sight-line study that has been submitted for City analysis due to the site topography versus adjoining properties. While the buildable area of the site is highest at the west side of the property, the

site loses elevation as you move east and north. The proposed building addition is 86 feet in height above adjacent average grade and similar in height to the existing structure on site. A site visit to the western residential properties revealed that the existing medical building is not visible through the thick vegetation. While the existing structure cannot be seen currently, after trees have lost leaves, it may be possible to see these structures. Staff is continuing to evaluate the proposal versus surrounding topography.

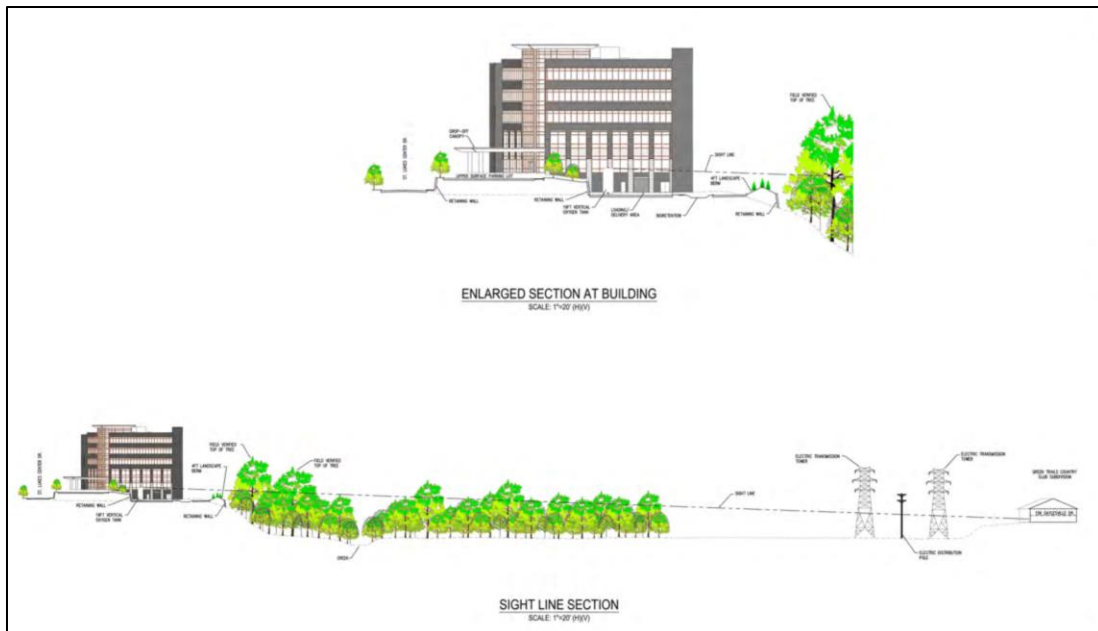


Figure 2: Sight-Line Study

D. Retaining Walls

A total of 10 retaining walls are proposed varying from 2-10 feet in height. The walls will be constructed of concrete block walls similar to existing walls on site.

General Requirements for Building Design:

A. Scale, Design, Materials and Color

The applicant is proposing a five-story medical office structure similar in height and scale with the other existing structure on the northwest campus. As mentioned in the earlier Topography section above on page 2, the height of the building is 86 feet from adjacent average grade. Due to the topography on site, this building will be viewable from the west, east and north while to the south the existing medical building will screen this new facility. Residential development exists to the west of this site approximately 1,100 feet away. An aerial photo demonstrating this distance can be found on page 1, Figure 1. This western elevation will mimic the other elevations as well the existing structure. As discussed in the Topographic section above, the residential structures to the west may be able to view the upper portions of this proposed structure; however a majority of the building will be masked by dense vegetation which can be seen also on Figure 1 on page 1 and on the Sight Line Study seen above within Figure 2. During the rezoning of this property, extensive discussion occurred on the height of the proposed buildings. Upon approval of the zoning change, no building would be permitted to exceed 98 feet in height from adjacent grade. The proposed structure would be 86 feet.

Materials for this proposal will mimic the existing office structure in scale, form and composition/materials. Materials include cast stone, brick, metal panels and glass which are identical to the existing medical office building.

B. Landscape Design, Screening and Fencing

All landscaping as identified on the submitted Landscape Plan is compliant with the Tree Preservation and Landscape Requirements of the City of Chesterfield. A combination of deciduous, coniferous and shrubs/bushes have been utilized throughout the exterior of the site. Associated with the approval of Ordinance 2796, a four foot landscape berm was required to assist in providing all year screening of this project from the west. The berm consists of a continuous row of evergreen plantings. This berm will also assist in the screening of future structures that will be placed along this bluff line.

Screening is provided for the trash container, Oxygen tank and Chillers. These structures will be placed on the north elevation and be screened from view by the building to the south, a retaining wall to the east and the landscape berm to the west. The sight-line study documents screening for these structures. While no screening is planned from the north, this area is below adjacent grade and will be additionally screened from view with future building additions to the north. No public visibility of this area is available, which is the intent of the City requirements. Additional mechanical equipment will be roof mounted and screened per the UDC using a metal screen wall.

C. Lighting

Lighting is proposed to use a combination of 3 wall mounted pack lights and 15 pole lights for the parking areas. Details on planned site lighting are included for the Architectural Review Board's review and comment. Staff is continuing to review proposed lighting in accordance with the City's lighting standards.

DEPARTMENTAL INPUT

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

Staff requests review and recommendation on this submittal for St. Luke's Hospital Northwest Campus 5th ASDSP.

MOTION

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

- 1) "I move to forward the Amended Site Development Section Plan, Amended Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design, for St. Luke's Hospital Northwest Campus 5th ASDSP, as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Amended Site Development Section Plan, Amended Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design, for St. Luke's Hospital Northwest Campus 5th ASDSP, to the Planning Commission with the following recommendations..."

Attachments

1. Architectural Review Packet Submittal



ARCHITECTURAL REVIEW BOARD
Project Statistics and Checklist

Date of First Comment Letter Received from the City of Chesterfield _____

Project Title: _____ Location: _____

Developer: _____ Architect: _____ Engineer: _____

PROJECT STATISTICS:

Size of site (in acres): _____ Total Square Footage: _____ Building Height: _____

Proposed Usage: _____

Exterior Building Materials: _____

Roof Material & Design: _____

Screening Material & Design: _____

Description of art or architecturally significant features (if any): _____

ADDITIONAL PROJECT INFORMATION:

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

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

111 ST. LUKE'S CENTER DRIVE
CHESTERFIELD, MISSOURI 63017

WEST CAMPUS BUILDING #2



BSA
LifeStructures

120 S. Central Avenue, Suite 1100
St. Louis, MO 63105.1746

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www.bsalifestructures.com

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STOCK & ASSOCIATES
Consulting Engineers, Inc.

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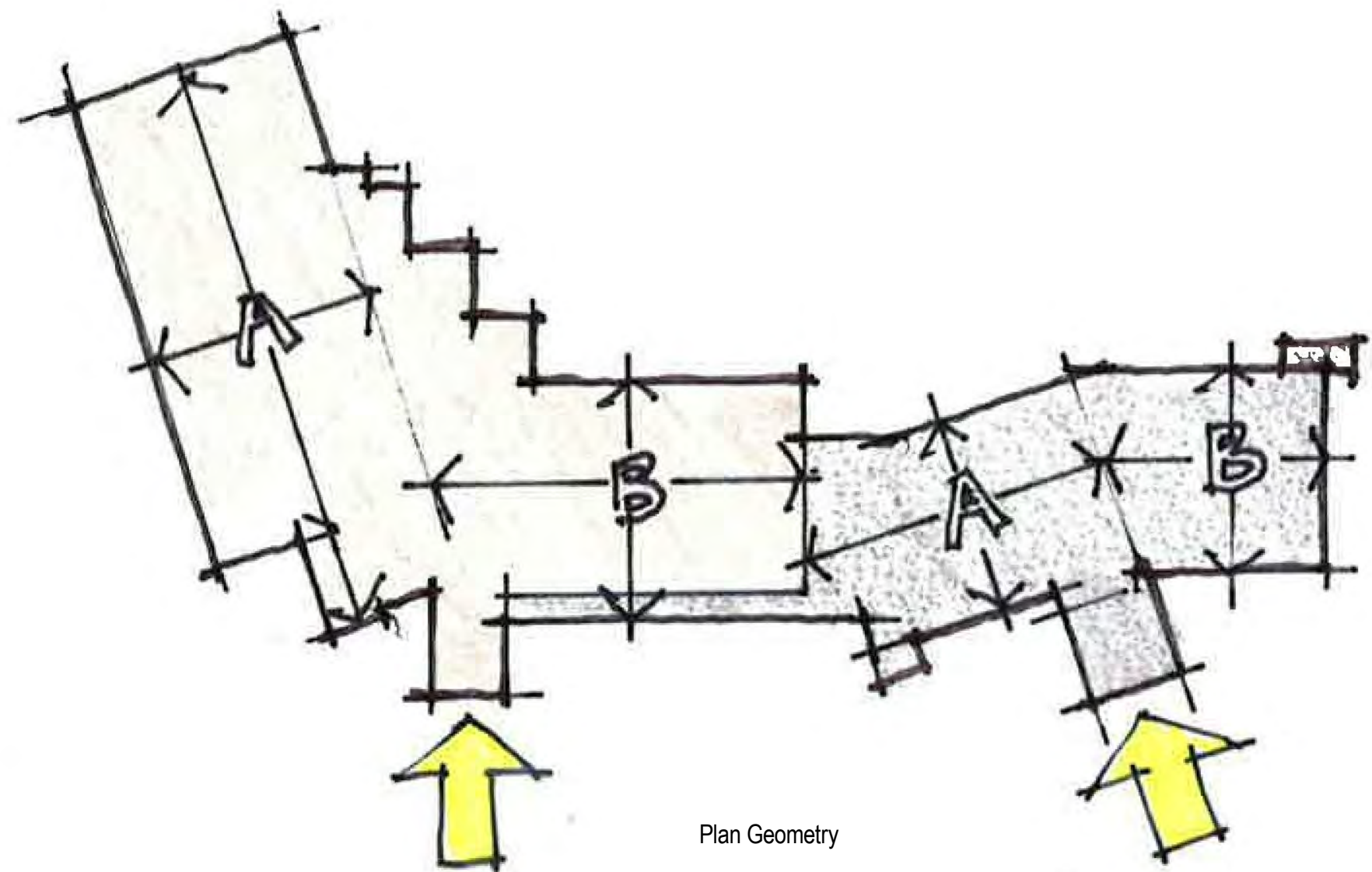
TKH TCHOUKALEFF KELLY HARTKE
HEALTHCARE FACILITY PLANNING, PROGRAMMING, DESIGN

HEIDEMAN ASSOCIATES, INC.
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CITY OF CHESTERFIELD
ARCHITECTURAL REVIEW
BOARD SUBMISSION
03 SEPTEMBER 2014

Architect's Statement of Design

St. Luke's West Campus Building #2 is a new five story 106,000SF medical office building, to be located directly adjacent to the Desloge Outpatient Center west of St. Luke's Hospital. Building #2 is connected to the Desloge Outpatient Center via an enclosed link at the first floor, but the two buildings are separated by a two hour fire wall. The scale, form, composition, and materials utilized in Building #2 will mimic and/or compliment the same elements of design used in the D.O.C. in an effort to provide a consistent, cohesive campus. The cast stone, brick, metal panels, and glass are identical to those used at the D.O.C. The plan geometry works off the context established by the D.O.C. and due to the offsets, helps to reinforce the separate identity of the two buildings. The entry points to each building offer the starkest contrasting form elements, masonry as the dominant vertical form at the D.O.C., vertical glass curtain wall by contrast at Building #2. Both canopies utilize composite metal panels identical in form. The connecting link is a replication of the existing exterior wall at the one story element at the D.O.C., repeating the rhythm of the masonry column spacing and window units.



Plan Geometry

In form and composition the new building is consistent with the architectural context of the West Campus— from plinth proportions to duplicating mullion spacing, the intent is to convey a unified image.



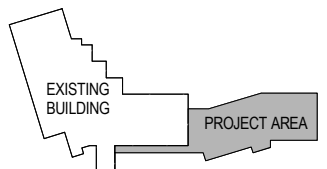
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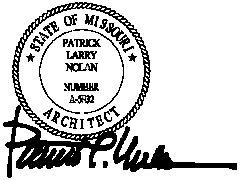
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KEYPLAN
PLAN NORTH



ARCHITECT'S
STATEMENT OF
DESIGN

CITY OF
CHESTERFIELD
ARCHITECTURAL
REVIEW BOARD
SUBMISSION

CLIENT NO. 1354
PROJECT NO. 13540001
DATE 03 SEPTEMBER 2014



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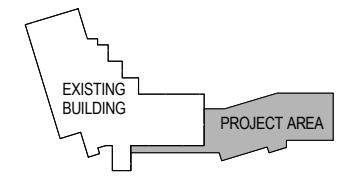
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St. Luke's HOSPITAL



KEYPLAN
PLAN NORTH

STATE OF MISSOURI
PATRICK LARRY McLAN
NUMBER 45870
ARCHITECT
Patrick L. McLAN

PHOTOGRAPHS OF ADJACENT SITE

CITY OF CHESTERFIELD ARCHITECTURAL REVIEW BOARD SUBMISSION

CLIENT NO. 1354
PROJECT NO. 13540001
DATE 03 SEPTEMBER 2014



PREPARED BY:
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 Web: www.stockandassociates.com

ST. LUKE'S HOSPITAL
 WEST CAMPUS
 232 SOUTH WOODSMILL ROAD
 CITY OF CHESTERFIELD, MISSOURI

REVISIONS:

Issue Date	08.18.14
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DESIGNED BY: J.E.F. CHECKED BY: G.M.S.
 DATE: 07/31/14 JOB NO: 213-5155.1
 SCALE: AS SHOWN SHEET NO: 180
 SHEET NO: 40-00

SHEET TITLE:
SECTION SITE PLAN

SHEET NO.: **3**

GRAPHIC SCALE
 (IN FEET)
 1 inch = 40 ft.

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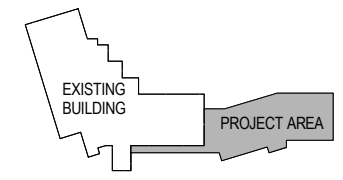
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St. Luke's HOSPITAL



KEYPLAN
 PLAN NORTH

STATE OF MISSOURI
 PATRICK LARRY McLANE
 ARCHITECT
Patrick L. McLane

COLOR SITE PLAN

CITY OF CHESTERFIELD
 ARCHITECTURAL
 REVIEW BOARD
 SUBMISSION

CLIENT NO. 1354
 PROJECT NO. 13540001
 DATE 03 SEPTEMBER 2014

A2

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STOCK & ASSOCIATES
Consulting Engineers, Inc.

PREPARED BY:

SITE DEVELOPMENT SECTION PLAN FOR:

St. Luke's Hospital

WEST CAMPUS
232 SOUTH WOODSMILL ROAD
CITY OF CHESTERFIELD, MISSOURI

DATE: Sept. 18, 2014

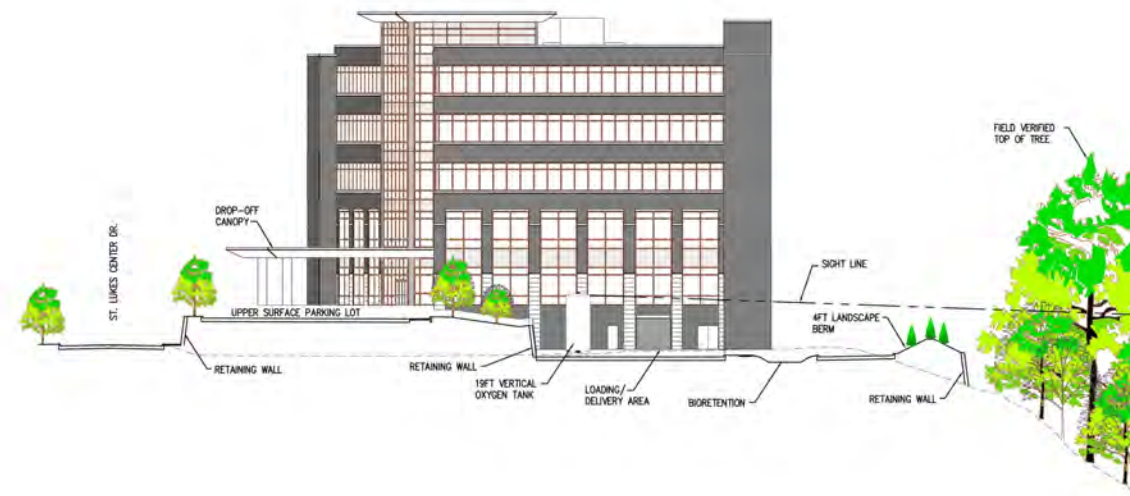
GEORGE M. STOCK E-25116
CIVIL ENGINEER
CERTIFICATE OF AUTHORITY
NUMBER: 000966

REVISIONS:
Issue Date 07.31.14
Per City Comments 08.18.14

DRAWN BY: J.E.F. CHECKED BY: G.M.S.
DATE: 07/31/14 JOB NO.: 213-5155.1
SHEET NO.: 8 OF 8
SCALE: AS SHOWN

SHEET TITLE:
PLAN SIGHT SECTION

SHEET NO.:
8



ENLARGED SECTION AT BUILDING
SCALE: 1"=20' (H)(V)



SIGHT LINE SECTION
SCALE: 1"=20' (H)(V)



SECTION LANDSCAPE PLAN
SCALE 1" = 40'



SECTION LANDSCAPE PLAN (cont.)
SCALE 1" = 40'

Open Space Percentage - 68.02%

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

PLANTING SCHEDULE							
SYMBOL	QUANTITY	NATIVE NAME	COMMON NAME	SIZE	FORM	SITE	MATURE HEIGHT
TREES							
A	37	Acer x freemanii 'Autumn Blaze'	Autumn Blaze Maple	2 1/2"	Canopy	MED	45'+
B	13	Gleditsia triacanthos 'Inermis'	Thornless Honeylocust	2 1/2"	Canopy	FAST	45'+
C	15	Tilia cordata	Littleleaf Linden	2 1/2"	Canopy	SLOW	45'+
D	14	Quercus bicolor	Swamp White Oak	2 1/2"	Canopy	MED.	45'+
E	11	Platanus occidentalis	American Sycamore	2 1/2"	Canopy	FAST	45'+
F	22	Acer rubrum 'Frankered'	Red Sunset Maple	2 1/2"	Canopy	FAST	45'+
G	17	Taxodium distichum	Bald Cypress	2 1/2"	Canopy	MED.	45'+
H	20	Cercis canadensis	Redbud	2 1/2"	Ornamental	FAST	25-30'
J	16	Prunus serrulata 'Kwanzan'	Kwanzan Cherry	2 1/2"	Ornamental	MED.	25-35'
K	19	Crataegus phaenopyrum	Washington Hawthorn	2 1/2"	Ornamental	MED.	25-30'
L	43	Pinus strobus	Eastern White Pine	6-8"	Evergreen	FAST	45'+
M	49	Picea glauca	White Spruce	6-8"	Evergreen	MED.	30-40'
SHRUBS							
a	56	Viburnum rhytidophyllum	Leatherleaf Viburnum	36"	Evergreen		
b	53	Ilex x 'Blue Prince/Blue Princess'	Blue Prince/Blue Princess Holly	36"	Evergreen	1/9 ratio	
c	36	Juniperus chinensis 'Hetzi Glauca'	Hetzl Juniper	36"	Evergreen		
SHRUBS							
DD	250		Evergreen Shrubs	24"			
EE	134		Deciduous/Flowering Shrubs	24"			

STREET TREE PLANTING SCHEDULE							
SYMBOL	QUANTITY	NATIVE NAME	COMMON NAME	SIZE	FORM	SITE	MATURE HEIGHT
AA	5	Ulmus 'Homestead'	Homestead Elm	2 1/2"	Canopy	MED/FAST	60-80'
BB	5	Acer rubrum 'Frankered'	Red Sunset Maple	2 1/2"	Canopy	FAST	45'+
CC	5	Tilia cordata	Littleleaf Linden	2 1/2"	Canopy	SLOW	45'+
DD	6	Quercus bicolor	Swamp White Oak	2 1/2"	Canopy	MED.	45'+
EE	5	Gleditsia triacanthos 'Inermis'	Thornless Honeylocust	2 1/2"	Canopy	FAST	45'+
FF	5	Platanus x acerifolia	London Planetree	2 1/2"	Canopy	FAST	45'+



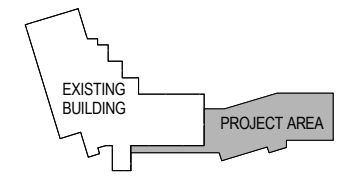
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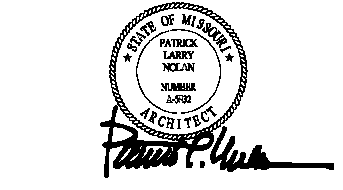
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COLOR
LANDSCAPE PLAN

CITY OF
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DATE 03 SEPTEMBER 2014

Revisions:

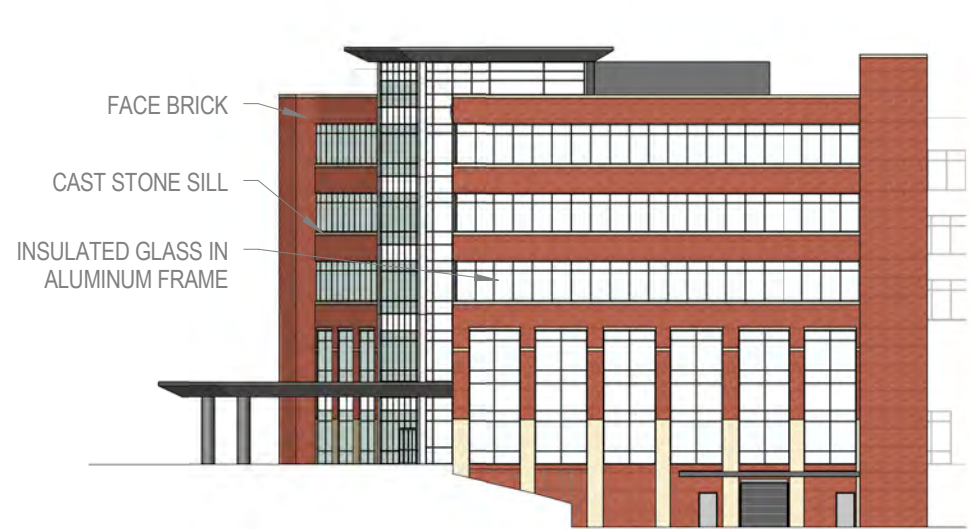
Date	Description	No.
9/15/14	Base Revision	1

Drawn: BAR
Checked: JAS



Sheet Title: Section Landscape Plan
Sheet No: L-1
Date: 08/01/14
Job #: 862.010

A4



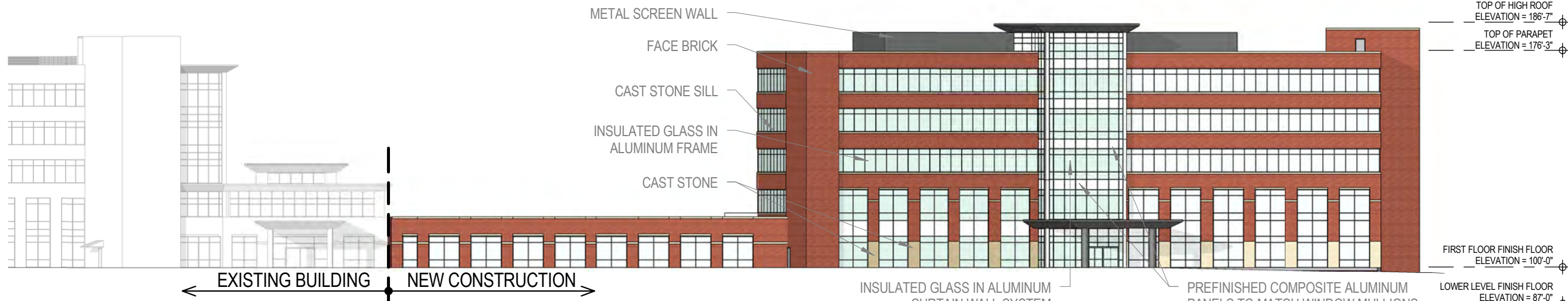
NORTH ELEVATION



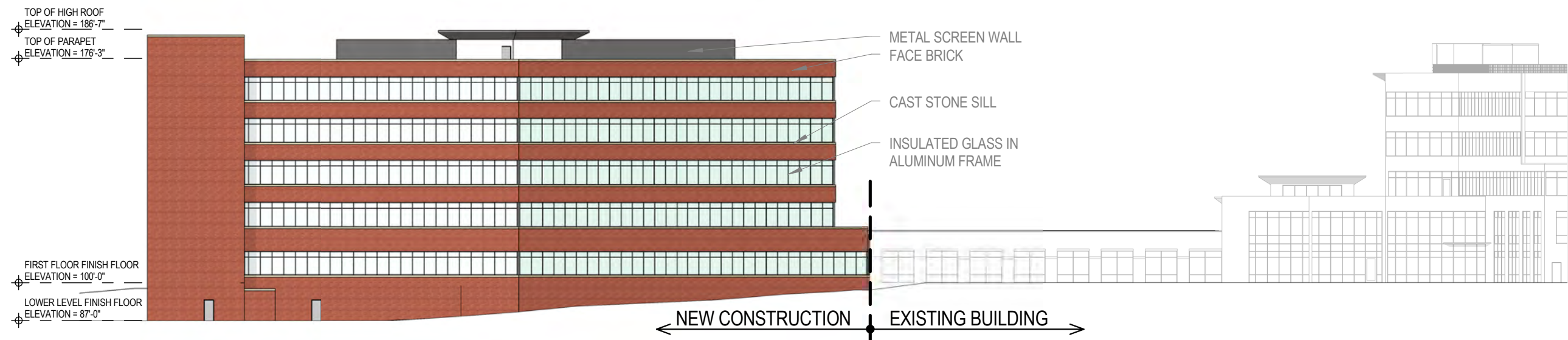
SOUTH ELEVATION

NOTE: ALL EXTERIOR MATERIALS AND MECHANICAL EQUIPMENT SCREENS TO MATCH EXISTING MATERIALS AT ADJACENT DESLOGE OUTPATIENT CENTER.

PREFINISHED COMPOSITE ALUMINUM COLUMN COVERS TO MATCH WINDOW MULLIONS



EAST ELEVATION



WEST ELEVATION

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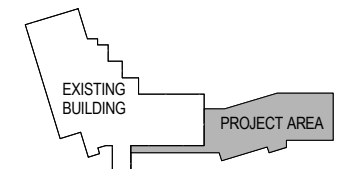
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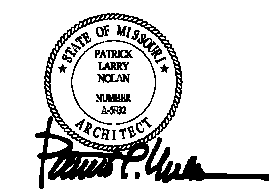
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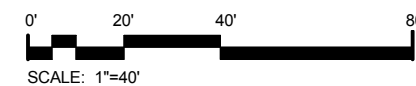
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PLAN NORTH



EXTERIOR ELEVATIONS

CITY OF CHESTERFIELD ARCHITECTURAL REVIEW BOARD SUBMISSION

CLIENT NO. 1354
PROJECT NO. 13540001
DATE 03 SEPTEMBER 2014



IMPACT ELITE SMALL—LED



ORDERING INFORMATION

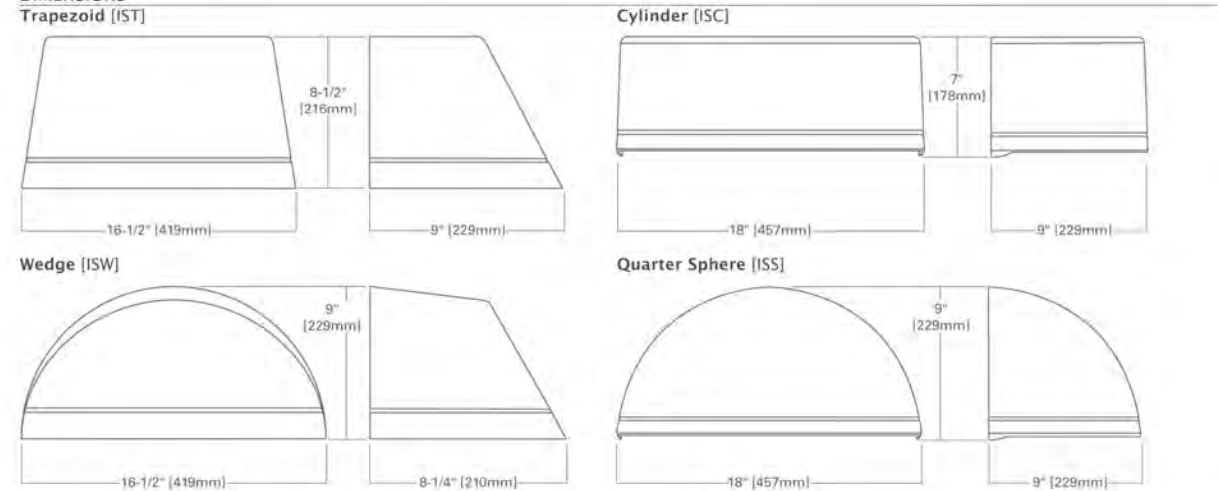
SAMPLE NUMBER: IST-B02-LED-E1-BL3-GM

PRODUCT FAMILY	NUMBER OF LIGHTBARS ^{1,2}	LAMP TYPE	VOLTAGE	DISTRIBUTION	FINISH [add as suffix]	OPTIONS + ACCESSORIES [see below]
ISC=Impact Elite Small Cylinder	B01=[1] 21 LED LighBAR	LED=Solid State	E1=Electronic [120-277V]	BL2=Type II w/Back Light Control	AP=Grey	
ISS=Impact Elite Small Quarter Sphere	B02=[2] 21 LED LighBARs	Light Emitting Diodes	347=347V	BL3=Type III w/Back Light Control	BZ=Bronze	
ISW=Impact Elite Small Wedge	C01=[1] 7 LED LighBAR		480=480V	BL4=Type IV w/Back Light Control	BK=Black	
IST=Impact Elite Small Trapezoid	C02=[2] 7 LED LighBARs			GZW=Wall Grazer Wide	DP=Dark Platinum	
				SLL=90° Spill Light Eliminator Left	GM=Graphite Metallic	
				SLR=90° Spill Light Eliminator Right	WH=White	

OPTIONS + ACCESSORIES [Must be listed in the order shown and separated by a dash]

OPTIONS ¹	ACCESSORIES ¹³
P=Button Type Photocontrol [120, 208, 240 or 277V] ⁴	MA1253=10kV Circuit Module Replacement
TR=Tamper Resistant Fasteners	MA1254-XX=Thruway Back Box—Impact Elite Trapezoid ¹⁴
ULG=Uplight Glow ⁵	MA1255-XX=Thruway Back Box—Impact Elite Cylinder ¹⁴
2L=Bi-Level Switching Capable ⁶	MA1256-XX=Thruway Back Box—Impact Elite Quarter Sphere ¹⁴
7060=70 CRI / 6000K CCT ⁷	MA1257-XX=Thruway Back Box—Impact Elite Wedge ¹⁴
8030=80 CRI / 3000K CCT ⁷	

DIMENSIONS



CERTIFICATIONS	ENERGY DATA	AMBIENT DATA	SHIPPING DATA
UL and cUL Listed	Electronic LED Driver	Ambient Temperature	Approximate Net Weight
ISO 9001	>0.9 Power Factor	10°C	1-2 Bars 16 (8 kgs.)
IP66 LightBARS	<20% Total Harmonic Distortion	15°C	
ARRA Compliant	120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz	25°C	
	40°C Ambient Temperature Rating	40°C	
	-30°C Minimum Temperature		

NOTE: 1 Standard 4000K CCT and nominal 70 CRI. 2 21 LED LighBAR powered at 350mA. 3 Add as suffix. 4 Must specify voltage. 5 Provides 10% uplight in 2 bar (B01 or C02) configurations and 20% uplight in 1 bar (B01) configurations (ISC and IST only). 6 Only available in 2 bar (B02 or C02) configurations. 7 Consult factory for lead times and lumen multiplier. 8 Only available in 2 bar (B02 or C02) configuration. Streetside LightBAR will be wired to sensor. Time delay factory setting is 15 minutes. 9 Not available with OSR. 10 Specify 120 or 277V. D°C minimum temperature. 11 Consult factory for availability. 12 Specify 120 or 277V, -20°C minimum temperature. 13 Order separately. 14 Specify finish colors in place of "XX". 15 Specifications and dimensions subject to change without notice.



Cooper Lighting, McGraw-Edison, Impact Elite, SustainableDesign, LightBARS and AccuLED Optics are valuable trademarks of Cooper Industries in the United States and other countries. You are not permitted to use the Cooper Trademarks without the prior written consent of Cooper Industries.

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Peachtree City, Georgia 30269
P: 770-486-4800
www.cooperlighting.com

ADH111442

Printed in USA



DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

SPECIFICATION FEATURES

Construction
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics
Choice of 16 patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 6000K CCT and 3000K CCT. For the ultimate level of spill light control, an optional house side shield accessory can

be field or factory installed. The house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

Electrical
LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Standard with 0-10V dimming. Shipped standard with Cooper Lighting proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

Mounting
Extruded aluminum arm includes internal bolt guides allowing for

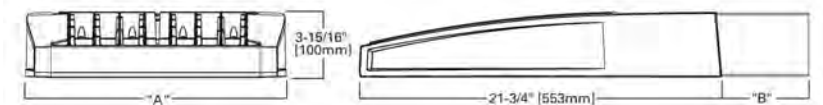
easy positioning of fixture during assembly. Designed for pole or wall mounting. When mounting two or more luminaires at 90° or 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole top adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated.

Finish
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

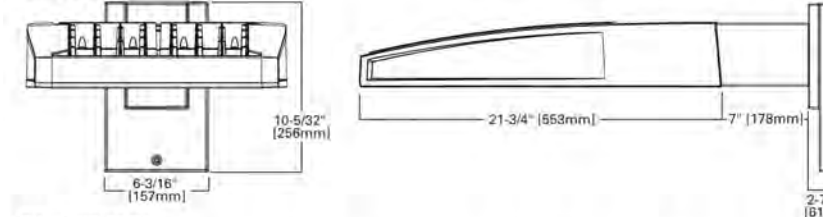
Warranty
Five-year warranty.

DIMENSIONS

POLE MOUNT



WALL MOUNT



DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length ¹	Weight with Arm (lbs.)	EPA with Arm ² (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (548mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	53 (28.6 kgs.)	1.12

NOTES: 1 Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. 2 EPA calculated with optional arm length.

Cooper Lighting
by E.T.N.

McGRAW-EDISON®

Catalog #	Type
Project	
Comments	
Prepared by	



GLEON GALLEON LED

1-10 Light Squares
Solid State LED

AREA/SITE LUMINAIRE

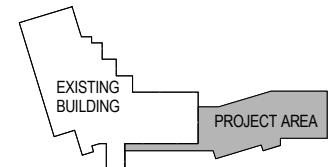
kpff Consulting Engineers

1630 Des Peres Road, Suite 100
Saint Louis, MO 63131
(314) 835-0524 Fax (314) 835-0749

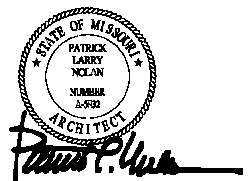
STOCK & ASSOCIATES
Consulting Engineers, Inc.

TKH TCHOUKALEFF KELLY HARTKE
HEALTHCARE FACILITY PLANNING, PROGRAMMING, DESIGN

St. Luke's HOSPITAL



KEYPLAN
PLAN NORTH



CERTIFICATION DATA
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium® Qualified*

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)



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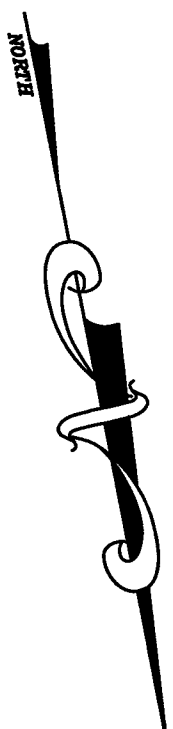
*www.designlights.org

LIGHTING CUT SHEETS

CITY OF
CHESTERFIELD
ARCHITECTURAL
REVIEW BOARD
SUBMISSION

CLIENT NO. 1354
PROJECT NO. 13540001
DATE 03 SEPTEMBER 2014

A6



GRAPHIC SCALE

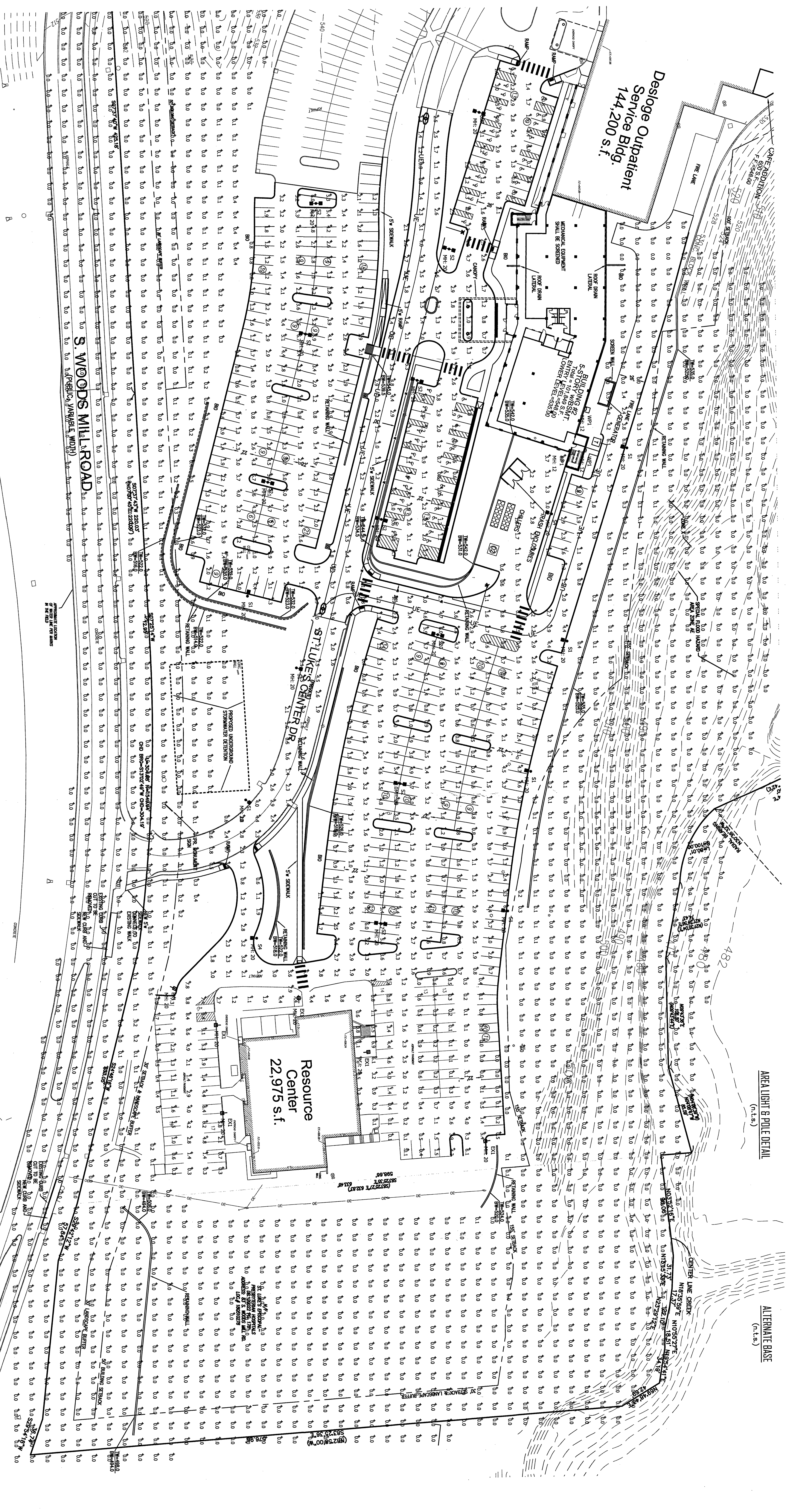
1" = 40' (IN FEET)

FIGURE MOUNTING HEIGHT INCLUDES BASE
LIGHT LEVEL CALCULATED ON PARKING SURFACE

Luminaire Schedule	Symbol	Qty	Label	Arrangement	Lum. Waits	Total Waits	LLF	Description
	7	157	S1	SINGLE	1099	1099	0.912	GLENN-AE-03-LED-EI-S13
	10	213	S2	BACKBACK	4260	4260	0.912	GLENN-AE-04-LED-EI-S10Q TRIN
	2	426	S4	SINGLE	426	426	0.912	GLENN-AE-04-LED-EI-S10Q
	6	452	E1	SINGLE	2712	2712	0.650	GSM-AN-400-MP-MT-SL-1G
	3	153	W1	SINGLE	153	153	0.912	IST-R02-LED-EI-B14

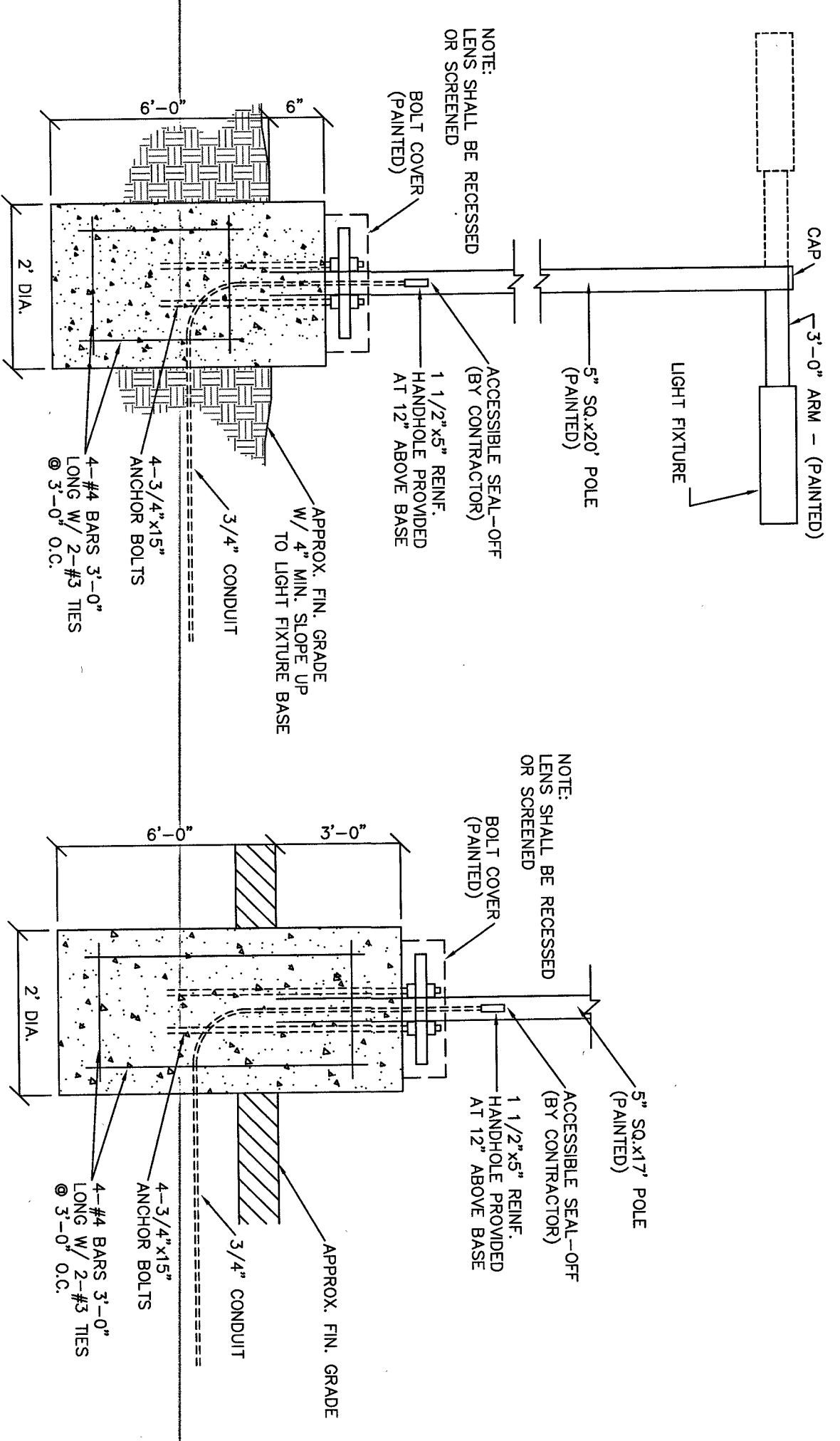
DESIGN IS BASED ON CURRENT INFORMATION PROVIDED AT THE TIME OF REQUEST. ANY CHANGES IN MOUNTING HEIGHT OR LOCATION, LAMP WATTAGE, LAMP TYPE, AND EXISTING FIELD CONDITIONS, THAT EFFECT ANY OF THE PROPOSED MOUNTING HEIGHTS, WILL VOID CURRENT LAYOUT AND REQUIRE A CHANGE ORDER AND RE-CALCULATION.

Calculation Summary	CalcType	UNITS	Avg	Max	Min	Avg/Min	Max/Min
EXISTING RESOURCE	FC	FC	1.84	9.4	0.0	N.A.	N.A.
SITE	FC	FC	2.23	7.9	0.5	4.46	15.80
SPILL LIGHT	FC	FC	0.01	0.5	0.0	N.A.	N.A.



AREA LIGHT & POLE DETAIL (1:16)

ALTERNATE BASE (1:16)



SITE DEVELOPMENT SECTION PLAN FOR:

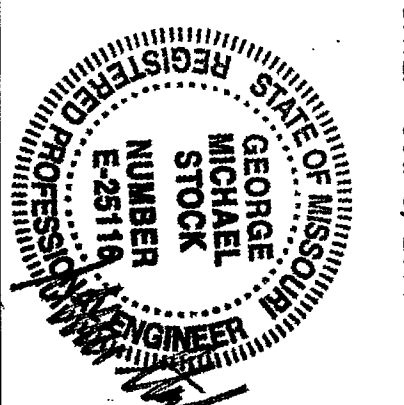
St. Luke's Hospital

WEST CAMPUS
232 SOUTH WOODSMILL ROAD
CITY OF CHESTERFIELD, MISSOURI

PREPARED BY:

Stock & Associates
Consulting Engineers, Inc.

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PH: (636) 530-9100
FAX: (636) 530-9130
e-mail: general@stockassoc.com
Web: www.stockassoc.com



DATE: Oct 8, 2014

GEORGE M. STOCK E-25114
REGISTERED PROFESSIONAL ENGINEER
STATE OF MISSOURI
NUMBER: 00586

NO.	DATE	DESCRIPTION	BY	CHKD BY
1	07/27/14	213-51851	MS	MS
2	08/14/14	100814	MS	MS

PROJECT: GEORGE M. STOCK
SHEET TITLE: PHOTOMETRIC SITE PLAN
SHEET NO.: E1