



KLM Renovation & Addition

2680 S. Rochester Road Rochester Hills, MI 48309

DESIGNHAUS

301 WALNUT BOULEVARD ROCHESTER, MI 48307 T:248.601.4422 F:248.453.5854 WWW.DESIGNHAUS.COM



Site Plan Annroval Revision #3	6 19 18
Site Plan Approval Revision #3	6.19.18
Site Plan Approval Revision #3 Site Plan Approval Revision #2 Site Plan Approval Revision #1	6.19.18 4.20.18 2.6.18
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Site Plan Approval/ 9.26.16 Site Plan Approval Revision #1/ 2.6.18 Site Plan Approval Revision #2/ 4.20.18 Site Plan Approval Revision #3/ 6.19.18			
		Site Plan Approval Revisio	n #3
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		e Sheet and Ir	Idex
		G001	#16-023

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ABREVIATIONS



SYMBOL LEGEND



•	– plan and elevation details and sections-	 •
	brick pavers	
	porcelain tile	
	concrete	
	stud wall	
	hardwood floor	
	earth	
	cmu	
	brick	
	sand	
	gravel	
	supply open chase	
	return open chase	
	con't blocking	
	intermittent blocking	
	blown-in & batt insulation	
	rigid insulation	
	finished wood	
	glass	
	cultured stone	
	fire rated	
	plywood	
	gypsum board	
	granite & marble	
	stone veneer	
	steel	

GENERAL NOTES

I. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES, REGULATIONS AND LANDLORD'S REQUIREMENTS

2. DO NOT SCALE DRAWINGS. FIELD VERIFY ALL DIMENSIONS AND JOB CONDITIONS

3. SHOULD ANY CONDITION ARISE WHERE THE INTENT OF THE DRAWINGS IS IN DOUBT, OR WHERE THERE APPEARS TO BE AN ERROR ON THE DRAWINGS OR A DISCREPANCY BETWEEN THE DRAWINGS AND THE FILED CONDITIONS, THE ARCHITECT SHALL BE NOTIFIED AS SOON AS POSSIBLE. IF THE CONTRACTOR PROCEEDS WITH THE WORK SO AFFECTED WITHOUT INSTRUCTION FROM THE ARCHITECT. THE CONTRACTOR SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECTS. THIS INCLUDES ERRORS IN THE SPECIFICATIONS AND NOTATIONAL ERRORS ON THE DRAWINGS WHERE DOUBTFUL OF INTERPRETATION.

4. IN THE CASE WHERE TWO OR MORE DETAILS APPLYING TO THE SAME PART OF THE WORK ARE IN CONFLICT, THE MOST RESTRICTIVE SHALL GOVERN UNLESS CLARIFIED OR OTHERWISE APPROVED BY THE ARCHITECT.

5. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL CAREFULLY EXAMINE THE CONDITIONS AFFECTING HIS WORK BEFORE PROCEEDING, AND SHALL REPORT TO THE ARCHITECT ANY CONDITION WHICH WOULD PREVENT THE PROPER AND LEGAL COMPLETION OF HIS WORK. NOT REPORTING ANY SUCH UNSUITABLE CONDITION WILL CONSTITUTE ACCEPTANCE OF ALL CONDITIONS BY THE CONTRACTOR AND/OR SUBCONTRACTOR.

6. APPROVAL OF SHOP DRAWINGS MEANS APPROVAL OF THE GENERAL METHOD OF FABRICATION ONLY. DIMENSIONS AND QUANTITIES MAY NOT BE CHECKED, AND APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS UNLESS SPECIFICALLY INDICATED IN THE APPROVAL

7. IF SPECIFICATIONS ARE PROVIDED, SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. WHERE DRAWINGS AND SPECIFICATIONS CONFLICT, THE MOST RESTRICTIVE SHALL APPLY.

8. LANDLORD'S BUILDING IS FULLY SPRINKLERED CONSTRUCTION.

9. PROVIDE 2A. 10BC MINIMUM RATED FIRE EXTINGUISHER TO BE LOCATED WITHIN 75 FEET OF TRAVEL DISTANCE FROM ALL AREAS. PROVIDE ONE EXTINGUISHER FOR EACH 75 FEET OF TRAVEL

10. PLANS OF ALTERATIONS TO EXISTING SPRINKLER SYSTEM SHALL BE APPROVED BY THE FIRE DEPARTMENT PRIOR TO INSTALLATION OF SYSTEM.

11. PLANS FOR ALL FIXED FIRE PROTECTION EQUIPMENT SUCH AS STANDPIPES, SPRINKLER SYSTEMS AND FIRE ALARM SYSTEMS, ETC. MUST BE SUBMITTED TO, AND APPROVED BY, THE FIRE PREVENTION BUREAU BEFORE THE EQUIPMENT IS INSTALLED.

12. 1 "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" SIGN, WITH MINIMUM ONE (1) INCH HIGH LETTERS SHALL BE PROVIDED ADJACENT TO FRONT EXIT DOOR. PROVIDE INDICATING TYPE LOCKS ON DOORS.

13. NO HAZARDOUS MATERIALS, LIQUIDS OR CHEMICALS SHALL BE STORED OR USED WITHIN THE SUBJECT BUILDING AS TO REQUIRE A HAZARDOUS CLASSIFICATION PER APPLICABLE UNIFORM BUILDING CODE.

14. ALL INTERIOR WALLS AND PARTITIONS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST ALL LOADS TO WHICH THEY ARE SUBJECTED BUT NOT LESS THAN A FORCE OF 5 POUNDS PER SQUARE FOOT APPLIED PERPENDICULAR TO WALLS.

15. ALL EXITS SHALL BE OPENED FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.

16. LIGHT, VENTILATION AND SANITATION SHALL COMPLY WITH SECTIONS OF APPLICABLE BUILDING CODES.

17. DOORS SHALL HAVE A CLEAR OPENING OF NO LESS THAN 32" WHEN OPEN AND BE OPERABLE BY A SINGLE EFFORT.

18. THE FLOOR INSIDE OR OUTSIDE OF A DOORWAY SHALL BE LEVEL FOR A DISTANCE OF 5'-0" FROM THE DOOR, IN THE DIRECTION OF THE DOOR SWING, AND SHALL EXTEND 18" BEYOND THE LATCH SIDE FOR THE INTERIOR DOORS AND 24" BEYOND THE LATCH SIDE FOR EXTERIOR DOORS.

19. SWITCHES AND CONTROLS FOR LIGHTS, VENTILATION, FIRE ALARMS, ETC. MUST BE PLACED NO MORE THAN 48" FROM THE FLOOR.

20. A 7'-0" MINIMUM VERTICAL CLEARANCE IN REQUIRED FROM THE FLOOR TO CEILINGS OR PROTRUDING WALL FIXTURES.

21. PROVIDE FIRE STOPPING AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES.

22. DRAFTSTOPS MUST BE INSTALLED SO THAT THE LONGEST HORIZONTAL DIMENSION DOES NOT EXCEED 100 FEET.

PROJECT INFORMATION

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REQUIRED V.C. LAV DRINKING FOUNTAIN SERVICE SINK IALE - 31 EMALE - 32 MALE 1	HAPTERS - 1 ECTION 903 HAPTER 10 - ECTION 1004 ECTION 1005 GRESS WIDTH ECTION 1005 GRESS WIDTH ECTION 1006 LUMINATION ECTION 1014 XIT SIGNS ECTION 1014 XIT ACCESS ECTION 1016 XIT TRAVEL D ECTION 1016	FIRE PROTI	ECTION SYSTEM F EGRESS T LOAD: USE BUSINESS MERCANTILE ACCESSORY STORAGE/MECH MEZZANINE	ND FIRE PROTECTIO NOT REQUIRED PER 557 SQ.FT. 3,315 SQ.FT. 289 SQ.FT. 1,619 SQ.FT. 1,619 SQ.FT. USE GROUP - M-MEI EGRESS WIDTH (PEF 72" MIN PROVIDED Min 1 fc measure al emergency battery Approved readily vi battery backup for 2 EXITS PROVIDED 200 FT. ALLOWED 83 FT. PROVIDED 44" MIN REFILIEED	N SYSTEM 903.2.7.1 100 SQ. 60 SQ.F 300 SQ NO OCC 800 SQ NO OCC 800 SQ 100 SQ 10	I PROPOSED - FIRE AREA DOES NOT ACTOR / PER FT. GROSS/ PERSON T. GROSS/ PERSON .FT. GROSS/ PERSON UPANTS. STORAGE DNU 3X63=18.9" @ floor level provided or a min of 90 minutes tinued illumination w/ I minutes	EXCEED SUB TOTA 6 56 1 Y 0 TOTA w/	12,500 SQ. FT.
ALE - 31 EMALE - 32 MALE 1 1 1 1 FEMALE 1 1 1 PROVIDED W.C. LAV DRINKING FOUNTAIN SERVICE SINK MALE 1 1 1 Truvie 1 1 1 1	HAPTERS - 1 ECTION 903 HAPTER 10 - ECTION 1004 ECTION 1004 ECTION 1005 GRESS WIDTH ECTION 1005 LUMINATION ECTION 1016 LUMINATION ECTION 1014 XIT SIGNS ECTION 1014 XIT ACCESS ECTION 1016 XIT TRAVEL D ECTION 1018 ORRIDORS	FIRE PROTI	ECTION SYSTEM	ND FIRE PROTECTIO NOT REQUIRED PER 557 SQ.FT. 3.315 SQ.FT. 289 SQ.FT. 1.619 SQ.FT. 1.619 SQ.FT. USE GRDUP - M-MEL EGRESS WIDTH (PEF 72" MIN PROVIDED Min 1 fc measure al emergency battery Approved readily vi battery backup for 2 EXITS PROVIDED 200 FT. ALLOWED 83 FT. PROVIDED 44" MIN REQUIRED 44" MIN PROVIDED	N SYSTEM 903.2.7.1 100 SQ. 60 SQ.FT. 100 SQ. 60 SQ.F 300 SQ NO OCC 300 SQ NO OCC 1005.1). ong path backup f isible con min of 90	I PROPOSED - FIRE AREA DOES NOT ACTOR / PER FT. GROSS/ PERSON .T. GROSS/ PERSON .FT. GROSS/ PERSON .FT. GROSS/ PERSON UPANTS. STORAGE ONI 3X63=18.9" @ floor level provided or a min of 90 minutes tinued illumination w/ I minutes	EXCEED SUB TOTA 6 1 Y 0 TOTA w/	I2,500 SQ. FT.
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	CHAPTERS - 1 SECTION 903 CHAPTER 10 - SECTION 1004 SECTION 1005 SECTION 1014 XIT SIGNS SECTION 1014 XIT ACCESS SECTION 1014 XIT ACCESS SECTION 1016 SECTION 1018 SECTION 10	FIRE PROTI	ECTION SYSTEM F EGRESS T LOAD: USE BUSINESS MERCANTILE ACCESSORY STORAGE/MECH MEZZANINE - 2009 REQUIRED MALE FEMALE	ND FIRE PROTECTIO NOT REQUIRED PER 557 SQ.FT. 3,315 SQ.FT. 289 SQ.FT. 1,619 SQ.FT. 1,619 SQ.FT. USE GROUP - M-MEI EGRESS WIDTH (PEF 72" MIN PROVIDED Min 1 fc measure al emergency battery Approved readily vi battery backup for 2 EXITS PROVIDED 200 FT. ALLOWED 83 FT. PROVIDED 44" MIN REQUIRED 44" MIN REQUIRED 44" MIN PROVIDED	N SYSTEM 903.2.7.1 100 SQ. 60 SQ.F 300 SQ NO OCC 300 SQ NO OCC 300 SQ NO OCC 1005.1) . ang path backup f isible con min of 90 isible con min of 90 LAV 1 1	I PROPOSED - FIRE AREA DOES NOT ACTOR / PER FT. GROSS/ PERSON .FT. GROSS/ PERSON .FT. GROSS/ PERSON .FT. GROSS/ PERSON .FT. GROSS/ PERSON .FT. GROSS/ PERSON .T. GROSS/ PERSON .FT. GROSS/ PERSON .T. GROSS/ PE	EXCEED SUB TOTA 6 56 1 V 0 TOTA VTAIN	12,500 SD. FT.

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	TRE	E LEGEND	
- TREE TAG	DIA.	TREE NAME	ELEV
877 878 879 880 881 882 883 883 884 885	14" 8" 8" 12" 8" 8" 8" 8" 8" 8"	Walnut Walnut Walnut Walnut Walnut Walnut Elm Walnut	770.1 770.4 770.5 770.9 770.1 770.0 770.4 770.4 770.5
886	12''	Flm	770 9

<u>BENCHMARK</u>S

- BM •1 Arrow head on top of Fire Hydrant 125' north of south entrance to Hawthorne Plaza
- BM •2 Arrow head on top of Fire Hydrant near southwest building corner of Hawthorne Plaza ELEV - 768.29 (from construction plans for Hawthorne) Plaza prepared by REI •03-129











		n =	0.013		T _{initial} =	20 MIN.	INTEN	ISITY (i) =	175 / (T	+25)													
STF	UCT #	DRAINAGE AREA	"C"	EQUIV AREA	TOTAL EQUIV	TIME OF CONC.	RAINFALL	RUNOFF Q=CiA	PIPE DIAM.	PIPE SLOPE	PIPE LENGTH	DESIGN VELOCITY	FLOW TIME	DESIGN CAPACITY	HGL SLOPE	HGL UPPER	INV	'ERT	RIM ELEV.	CHK PIPE	CHK PIPE	HGL MINUS	RIM MINUS
FROM	то	(ACRES)	VALUE	"A"	AREA	(MIN)	(IN/HR)	(CFS)	(IN)	%	(FT)	(FT/S)	(MIN)	(CFS)	%	END	U.S.	D.S.	(FT)	COVER	CAPACITY	INV	HGL
6	5	0.344	0.454	0.156	0.156	20.00	3.89	0.61	21	0.10	150	2.08	1.20	5.01	0.001	763.03	761.63	761.48	767.80	4.42	4.40	1.40	4.77
5	4	0.249	0.913	0.228	0.384	21.20	3.79	1.45	21	0.10	53	2.08	0.42	5.01	0.008	762.88	761.48	761.43	764.90	1.67	3.56	1.40	2.02
4	3	0.114	0.950	0.108	0.492	21.62	3.75	1.85	21	0.10	145	2.08	1.16	5.01	0.014	762.83	761.43	761.28	765.10	1.92	3.17	1.40	2.27
3	EX CB2	0.000	0.000	0.000	0.492	22.78	3.66	1.80	12	0.32	10	2.57	0.06	2.02	0.255	762.08	761.28	761.25	764.15	1.87	0.22	0.80	2.07
EX CB	2 EX CB1	0.158	0.834	0.132	0.624	22.85	3.66	2.28	12	0.58	60	3.46	0.29	2.72	0.410	762.05	761.25	760.90	763.75	1.50	0.44	0.80	1.70
EX CB					0.624												760.55		763.25				



Surface Roof & Pavement	Runoff (Coefficient			
Brick & Gravel	0).85			
Semi-Pervious (Group B, >4%)	0).25			
C-FACTOR / INCREASED IMPE	RVIOUS	CALCUL	ATION		1
C-FACTOR / INCREASED IMPE PHASE	Area (ac)	S CALCUL Area (sf)	ATION Roof & Pvmt (sf)	Brick & Gravel (sf)	Semi
C-FACTOR / INCREASED IMPE PHASE PRE-DEVELOPMENT	Area (ac) 0.865	CALCUL Area (sf) 37690	ATION Roof & Pvmt (sf) 15787	Brick & Gravel (sf) 767	Semi-

RAIN EVENT =				=
IMPERV. AREA INCREASE =	0.624	-	0.481	=

21" Dia. Pipe - Solid Wall Length of Pipe =				=
Cross-sectional Area (pipe) =	πr^2	=	$\pi 0.875^2$	=
Total 18" Storage Volume =	CA (pipe)	х	Length	=
<u>12" Dia. Pipe - Solid Wall</u> Length of Pipe =				=
Cross-sectional Area (pipe) =	πr^2	=	$\pi 0.5^2$	=
Total 12" Storage Volume =	CA (pipe)	х	Length	=
Catch Basins				
Interior Height of CBs $=$				=
Interior Diameter of CBs =				=
Number of CBs =				=
Volume per CB =	$\pi r^2 h$	=	π 2.0 ² x 3	=
Total CB Storage Volume =	Volume / CB	х	Number of CBs	=
Total Storage Volume =	837 + 55	+	188	=
	21" Dia. Pipe - Solid Wall Length of Pipe = Cross-sectional Area (pipe) = Total 18" Storage Volume = 12" Dia. Pipe - Solid Wall Length of Pipe = Cross-sectional Area (pipe) = Total 12" Storage Volume = Cross - Sectional Area (pipe) = Total 12" Storage Volume = Number of CBs = Number of CBs = Volume per CB = Total CB Storage Volume =	21" Dia. Pipe - Solid Wall Length of Pipe =Cross-sectional Area (pipe) = πr^2 CA (pipe) 12" Dia. Pipe - Solid Wall Length of Pipe =Cross-sectional Area (pipe) = πr^2 CA (pipe)Cross-sectional Area (pipe) =Total 12" Storage Volume = πr^2 CA (pipe) Catch Basins Interior Height of CBs = Interior Diameter of CBs = Volume per CB =Number of CBs = Volume per CB = $\pi r^2 h$ Volume / CBTotal Storage Volume =837 +55	$\frac{21" \text{ Dia. Pipe - Solid Wall}}{\text{Length of Pipe =}} = \pi r^{2} = \pi r^{2}$ Cross-sectional Area (pipe) = πr^{2} = CA (pipe) x $\frac{12" \text{ Dia. Pipe - Solid Wall}}{\text{Length of Pipe =}}$ Cross-sectional Area (pipe) = πr^{2} = Total 12" Storage Volume = CA (pipe) x $\frac{\text{Catch Basins}}{\text{Interior Height of CBs =}}$ Interior Height of CBs = Interior Diameter of CBs = Number of CBs = Volume per CB = $\pi r^{2} h$ = Total CB Storage Volume = 837 + 55 +	$\begin{array}{l} \begin{array}{l} \begin{array}{l} \begin{array}{l} \begin{array}{l} \begin{array}{l} \begin{array}{l} \begin{array}{l} $

BENCHMARKS

BM •1 • Arrow head on top of Fire Hydrant 125' north of south entrance to Hawthorne Plaza ELEV = 765.34 (from construction plans for Hawthon Plaza prepared by REI •03-129

BM •2 - Arrow head on top of Fire Hydrant near southwest building corner of Hawthorne Plaza ELEV • 768.29 (from construction plans for Hawthorne) Plaza prepared by REI •03-129



FIRE DEPARTMENT NOTES

A Knox key system shall be installed, in a location approved by the Fire Code Official. Ordering information is available from the Knox Company at knoxbox.com.

Fire lanes shall be designated by the Fire Code Official, and shall be conspicuously posted on both sides of the fire land, with fire lane signs, spaced not more than 100 feet apart. Fire land signs shall read "No stopping, Standing, Parking, Fire Lane." and shall conform to the Michigan Manual of Uniform Traffic Control Devices.

Construction sites shall be safeguarded in accordance with IFC 2006 Chapter 14

Open burning is not permitted including the burning of trash, debris, or land clearing materials. Open burning for warming of sand and/or water for the preparation of mortar shall be within the City of Rochester Hills Burn Permit Guidelines.



2667 Hickory Lawn Rd. Zoned: R-3

2689 Hickory Lawn Rd. Zoned: R-3

SITE DATA

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G	S	C	ŀ	
n				F

15' FRONT Setback

Information
15-27-477-020
680 S. Rochester Rd., Rochester Hills, MI 48307
-2 General Business w/ FB-3 Flexible Business Overlay
0,095 Sq.Ft.) 0.92 Acres

EDULE OF REGULATIONS

Required	Existing	Proposed		
Front: 0'-7' Sides: 0' Rear: 50' (abutting residential)	Front: 102.92' Sides: 0.31'/19.50' Rear: 476.50'	Front: 76.00' Sides: 0.60'/26.41' Rear: 441.63' Future ROW: 5' & 5.5'		
Maximum: 2 stories/30'	One Story/18'	One Story/17.50'		
Maximum: N/A	6.98%	12.97%		
N/A	15,787 SF	23,372 SF (7,585 SF Increase)		

DESIGNHAUS

301 WALNUT BOULEVARD ROCHESTER, MI 48307 T:248.601.4422 F:248.453.5854 WWW.DESIGNHAUS.COM

Site Plan Approval Revision #3	6.19.18
Site Plan Approval Revision #2	4.20.18
Site Plan Approval Revision #1	2.6.18
Site Plan Approval	9.26.16

KLM Renovation & Addition 2680 S. Rochester Road Rochester Hills, MI 48309

Architectural Site Plan

015014 **S100** 16-02

NOT TO BE USED FOR CONSTRUCTION

PLANTING DETAILS

PLANT SCHEDULE

└─ EX. TREE TO REMAIN (TYP.)

ROOT	REQUIRED PER CODE	UNIT/TOTAL COST			ESIGN	HA	U S
2 GAL. GAL	1/1 ORNAMENTAL	\$200/\$200 \$50/\$500		301 W Rochi	ALNUT BOULEVARD Ester, mi 48307		
	L OW PLANTS: \$700			T:24	8.601.4422		
EN SHR	UBS)			F:24	8.453.5854		
AL. ' B&B	2/2 ORNAMENTAL 9/7 SHRUBS	\$200/\$400 \$100/\$900		WWW.	DESIGNHAUS.COM		
DTAL FF	RONT YARD REQUIRED F	PLANTS: \$1,300		╏┍			
&B		\$100/\$2,800 \$50/\$1,900 \$75/\$825 \$150/\$3,750					
)TAL AI	DDITIONAL PLANTS: \$9,2	275					
vs: and ref es. Sub	use. sequent pruning shall ass	sure proper					
within s ous plai en plan the siz iterial. he Site ials, or r	ix months after it dies or in nts shall be between Marc ts shall be between Marc e of the material it is inten Plan Approval. Unless oth non-compliance with the r	n the next planting ch 1 and June 1 h 1 and June 1. ded to replace. nerwise approved in maintenance					
oved la y rate a OURS (ndscape plan and be a vi s defined by the Forestry OF 12AM AND 5AM)	Department.					
S MUST		APE PLANTINGS.					
NOW RRY ,	15'-0' SIGHT TRIANGI F	RIVE (7) H STEI	R ROCK AREA EMEROCALLIS 'STELLA D'ORO' – LLA D'ORO DAYLILY (TYP) LDER (TYP)				
		(10) HEMEROCALLIS 'STELLA D'ORO' – STELLA D'ORO	$ \rangle$	Site Plan Approval Re	vision #3	6.19.18
	3'-d"		DAYLILY (TYP)	$ \langle -$	Site Plan Approval Re	vision #2	4.20.18
	* * * 15'-0	LAW	N AREA) -	Site Plan Approval Re	vision #1	2.6.18
					Site Plan Appro	va	9.26.16
		o,, SIGH			o. Revision/Issu	Ie	Date
				\mathcal{V}_{-}			
↑ <i>*</i> *	23 -5 15'-0" SIGHT TRIANGLE			26 R	LM Renovation ddition 580 S. Rochester Road ochester Hills, MI 48309	1&	
(19) - S) HEMEROCALLIS 'STELLA D'ORO' TELLA D'ORO DAYLILY (TYP)			F	andscape Plan		
	(1) Lands	Cape Plan scale: 1" = 20'	NORTH				
					L100	#16-023	015014

NOT TO BE USED FOR CONSTRUCTION

NOT TO BE USED FOR CONSTRUCTION

WST LED Architectural Wall Sconce

Catalog Number

any application.

Specifications

Introduction The WST LED is designed with the specifier in mind. The traditional, trapezoidal shape offers a soft, non-pixilated light source for end-user visual comfort. For emergency egress lighting, the WST LED offers six battery options, including remote. For additional code compliance and energy savings, there is also a Bi-level motion sensor option. With so many standard and optional features, three lumen packages, and high LPW, the WST LED is your "go to" luminaire for most

dering	Information	P		EXAMP	LE: WST L	ED P1	40K VF	MVOLT DDBTX
ST LED								
IS	Performance Package	Colortemperature	Distribution	Voltage		Mountin	9	
LED	P1 1,500Lumenpackage P2 3,000Lumenpackage P3 6,000Lumenpackage	1 1,500 Lumen package 27K 2700 K VF VF 2 3,000 Lumen package 30K 3000 K VW VF 3 6,000 Lumen package 40 K 4000 K 5000 K 5000 K		ward throw MVOLT ¹ le 120 ¹ 208 ¹ 240 ¹	277 ¹ 347 480	Shipped included (blank) Surface mounting b Shipped separately BBW Surface-mounted b PBBW Premium surface-m		xunting bracket ounted back box ³ wrface-mounted back box ²³
15							Finish (req	uired)
Pho NBA Five Co-1 Mo Co-1 NAO Mo 180 NAO Sini Dou Dou H Em	todectric cell, button type Mitwist-lock receptacle only -wire receptacle only OV dimming extend out back of hore tion, Ambient Light Sensor, 8-15' mounting Proofion/ambient light sensor, 15-30' motion/ambient light sensor, 15-30' de fuse (120, 277, 347V) ⁴ ble fuse (120, 240, 480V) ⁶ 4 switching ²	ing for external control (no cont on ting height ³ (height, ambient sensor en ablec O' mounting height ³ Ig height, ambient sensor en able	ed at 1fc ⁻¹ E7WC E7WHR E20WH E20WC E23WHR LCE RCE RDPW VG WG	Emergency battery backup Remote emergency battery Emergency battery backup Emergency battery backup Remote emergency battery Left side conduit entry ¹⁰ Right side conduit entry ¹⁰ Right side conduit entry ¹⁰ Retrofit back plate ² Vandal guard ¹¹ Wire guard ¹¹	(cold, 7W) ^{4,4} backup (remote 7W) (20W) ^{4,11} (cold, 20W) ^{4,11} backup (remote 20W	Ura Ira	DDBXD DBLXD DNAXD DWHXD DSSXD DDBTXD DBLBXD DNATXD DWHGXD DSSTXD	Dark bronze Black Natural aluminum White Sandstone Textured dark bronze Textured dark bronze Textured black Textured natural aluminum Textured sandstone
Accessories Ordered and shipper separately. BW 00800 Premium Suface -mounted backbox 0081XU Suface -mounted backbox 081XU Suface -mounted backbox 1 MVOLT driver operates on any line from 120-277V (50/60 Hz). Specify 208, 240 or 277 options only, when ordering with button type photoce facing (SF, DF), or dual switching (D 2 Also a valiable as a separate access occessories in forma form 3 Top conduit entry standard. 4 Not available with E7WH, E7WHC, E 20040C E20040 of 220040			ta). Specify 120, ta). Specify 120, sonly. when pephotocell (PE), switching (DS). wrate accessory; see jard. Al, E7WC, E7WHR, 3WHR, Not	available with PERS & 5 Not available with PE, VG or WG. 6 Not available with MW photocell (PE) can be dedicated voltage opt requires 120, 277 or 3 Double fuse (DF) requi voltage option. 7 Not available with ETV E20WC, E20WH, or E2	PER7. PER, PER5, PER7, OLT option. Butto ardered with a ion. Single fuse (S 47 voltage option res 208, 240 or 44 vH, E7WC, E7WH 23WHR. Used	n 8 9 F) 10 80 11 12 R, 13	with inverte 347/480V. N PERS & PER Not availabl Battery pack Comes with Warranty pe Not availabl Must order	r system. Not available with lot available with PE, PER, i7, e with 347/480V. crated for -20° to 40°C. PBBW. sriad is 3-years. e with BBW. with flixture; not an accessor

Wall luminaires with directed light in one direction

Housing: One Piece, die cast aluminum housing with a one piece, die cast aluminum mounting plate. The mounting plate is supplied with a flat plate that mounts directly to a standard, recessed 4 * octagonal wiring box. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy. Enclosure: Clear tempered glass diffuser. Provided reflector made of

pure anodized aluminum. Housing is secured to the mounting plate with two (2) mechanically captive, stainless steel set screws. Electrical: 13W LED luminaire, 16 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 3000K with an 85 CRI, Available in 4000K (85 CRI); add suffix K4 to order.

Note: Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP64

Weight: 5.3 lbs.

Luminaire Lumens: 449 Tested in accordance with LM-79-08

BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 www.bega-us.com Copyright BEGA-US 2016 Updated 02/16

NOTE:

Project name

Qty

Specification Sheet

Client Order# Type FEATURES AND BENEFITS Physical : low copper content extruded aluminum housing Available in 1', 2', 3' or 4' sections Electro-statically applied polyester powder coat finish Machined aluminum end caps and silicone gaskets Stainless steel hardware Clear tempered glass lens Asymmetric wallwash, 8° x 8°, 10° x 10°, 10° x 30°, 10° x 60°, 10° x 90°, 15° x 25°, 30° x 30°, 30° x 60°, 35° x 35°, 50° x 80°, 60° x 60°, 80° x 80°, or 90° x 90° optics

- Right or left feeding side options available Põ6
- IK07 rated (asymmetric wallwash lens is IK06 rated) Meets 3G ANSI C136.31 Vibration standard for bridge applications Corrosion-resistant coating for hostile environments²

Performance :

- Color mixing options: RGB (3 channels), RGBW (4 channels) or RGBA (4 channels) 1,898 delivered lumens and 8,350 candelas at nadir (RGB full output, 4' unit, 10⁶x60° optic)
- 2,215 delivered lumens and 7,300 candelas at nadir (RGBW full output, 4' unit, 10°x60° optic)
- 1,442 delivered lumens and 4,730 candelas at nadir (RGBA full output, 4' unit, 10°x60° optic) Lumen maintenance: 120,000 hrs [L70 @ 25°C]
- Lumen measurements comply with LM 79 08 standard
- Resolution per foot or per fixture (configured with LumenID V3 software & DMX/RDM)
 Operating temperatures: -25° C to 50° C [-1 3F to 122F]

Electrical :

- Line voltage luminaire for 100 to 277V Power and data in 1 cable (#16-5)
- End-to-end option (ETE): 16" black input cable, no jumper cable needed
- Maximum of 32x DMX/RDM devices per run 17.25W/ft³
- Control options : Lumentalk or DMX/RDM enabled
- Input coble m] 4 4' [102mm] 2ft, 3ft and 4ft fixtures, ETE option shown Ift fixture, ETE option shown TOP VIEW [340mm] 1 💷 // FRONT VIEW - 4 Minimum [7mm] spacing
- ¹ Asymmetric wallwash lens is IKO6 rated. ² Use only when exposed to salt spray and harsh chemicals. This option is not required for normal outdoor exposure! ³ Power consumption is typically 20% higher for 1' fixture lengths.
- 1/10 © Copyright lumenpulse 2017 1.877.937.3003 P.514.937.3003 1751 Richardson, Suite 1505 F. 514.937.6289 2017,07,21 Manteal (Quebec) Canada info@lumenpulse.com MG - R18 H3K 1G6 www.lumenpulsegroup.com | and Conditions of Scies.

	Onlago
	Color:
0	ptions:
M	od if ied:

BEGA Product:

Type:

0.4 0.5 0.9 0.8 0.8 0.6 0.2 0.2 0.4 0.5 0.8 0.7 0.8 0.6 0.3 0.3 0.7 0.3 **B**₁₅ 1.0 1.5 1.3 0.7 0.5 0.9 1.4 1.6 1.6 1.4 0.8 0.6 0.6 1.4 1.5 0.6 0.7 1.2 1.6 1.9 1.9 2.0 0.9 1.3 1.7 2.0 1.6 1.1 1.0 1.9 1.9 10 0.2 0.3 0.5 0.8 1.1 1.1 1.1 1.2 1.1 0.8 0.7 0.7 1.0 1.2 1.2 1.2 1.2 1.0 0.7 0.5 0.5 0.4 0.1 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2

- ALL EXTERIOR LIGHTING TO BE ON LIGHTING CONTROLS PER MEC SEC. C405.2 - EXTERIOR LIGHTING TO BE CONTROLED BY COMBINATION PHOTSENOR AND TIME CLOCK - DISPLAY AN ACCENT LIGHTING TO BE ON SEPERATE CONTROLS PER ASHRAE, 90.1-213 SEC. 9.4.1.4

GENERAL NOTE

1. SEE SCHEDULE FOR LUMINAIRE MOUNTING HEIGHT.

- 2. SEE LUMINAIRE SCHEDULE FOR LIGHT LOSS FACTOR.
- 3. CALCULATIONS ARE SHOWN IN FOOTCANDLES AT: 0' 0".

THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING / FUTURE FIELD CONDITIONS. THIS LIGHTING LAYOUT REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER_ VARIABLE FIELD CONDITIONS. MOUNTING HEIGHTS INDICATED ARE FROM GRADE AND/OR

THESE LIGHTING CALCULATIONS ARE NOT A SUBSTITUTE FOR INDEPENDENT ENGINEERING ANALYSIS OF LIGHTING SYSTEM SUITABILITY AND SAFETY. THE ENGINEER AND/OR ARCHIT IS RESPONSIBLE TO REVIEW FOR MICHIGAN ENERGY CODE AND LIGHTING QUALITY COMPLIANCE.

Schedule												
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage	Mounting Height
	Α	1	Lithonia Lighting	WST LED P1 40K VF MVOLT	WST LED, Performance package 1, 4000 K, visual comfort forward throw, MVOLT	LED	1	WST_LED_P1_40K_VF_MVOLT .ies	1639	0.85	12	12'-0"
	В	2	Lithonia Lighting	DSX0 LED P2 40K BLC MVOLT	DSX0 LED P2 40K BLC MVOLT	LED	1	DSX0_LED_P2_40K_BLC_MVO LT.ies	4925	0.9	49	20'-0"
—	С	19	Lumenpulse	LOGH-120-48-RGBW 8x8	Lumenfacade Horizontal. 49 3/8 inches. Additive red, green, blue and white 4000K. 8° x 8° Optic. (alt IES file used)	LED	1	LOG-120-48-RGBW-10x60- SI_G1504022-R1.ies	Absolute	0.1	40	17'-0"
\hat{O}	D	1	BEGA LIGHTING	33 581	Wall luminaires with directed light in one direction	LED	1	33581.IES	549	0.9	16	9'-0"
	-	•	•	•		•	•	•		-	-	•

lumen talk Photometric Summary

1,770* 6,921* 30°x30° 30°x60° 1,815* 2,406* 60°x60° 1,620* 1,417* 90°x90° 1,688* 886* Photometric performance is measured in compliance with IESNA LM-79-08.

5-year limited warranty. Consult www.lumen.pulsegroup.com for our complete Standard Terms

25 \$,37 \$,49 \$ [645mm, 949mm, 1254mm]

> Lumerpulse reserves the right to make changes to this product at any time without prior notice and such madification shall be effective immediately.

lumenpulse

SIDE VIEW

[54mm]

OR UP.	Statistics										
ECT	Description	Symbol	Avg	Мах	Min	Max/Min	Avg/Min	Avg/Max			
	PROPERTY LINE VALUES AT GRADE	+	0.1 fc	6.2 fc	0.0 fc	N/A	N/A	0.0:1			
	SITE VALUES AT GRADE	+	0.6 fc	7.1 fc	0.0 fc	N/A	N/A	0.1:1			

Designer

09/20/2016 REV 4/19/2018

Not to Scale

Drawing No.

#16-61116 V3

1 of 1

LM/AM

Date

Scale