City of Worthington

ARCHITECTURAL REVIEW BOARD

Certificate of Appropriateness Application

Case # AR 21-13
Date Received 4-3-13
Fee $200
Meeting Date 4-25-13
Filing Deadline 4-12-13
Receipt # 56227

1. **Property Location** THOMAS WORTHINGTON H.S. 300 W. GRANVILLE RD
2. **Present/Proposed Use** PRESENT WCS SERVICE BLDG / PROPOSED ENVIRONMENTAL SCIENCES CLASSROOM & COMMUNITY BLDG FOR THE CITY
3. **Zoning District** _____
4. **Applicant** PETER S. MACRAE, AIA
   Address 74 ORCHARD DRIVE, WORTHINGTON, OH 43085
   Phone Number(s) 614-205-6805 WORK 614-848-8113 HOME
5. **Property Owner** WORTHINGTON CITY SCHOOLS
   Address 200 EAST WILSON BRIDGE ROAD
   Phone Number(s) 614-450-6177 ATTN: TIM GEHRING WCS DIRECTOR FACILITY MANAGEMENT
6. **Project Description** RETURN EXISTING OUTDOOR EDUCATION CENTER TO AN ENVIRONMENTAL SCIENCES CLASSROOM & COMMUNITY BUILDING FOR THE CITY.
7. **Project Details:**
   a) **Design** SAME AS EXISTING W/ NEW WINDOWS & DOORS
   b) **Color** SAME AS EXISTING
   c) **Size** SAME AS EXISTING
   d) **Approximate Cost** $300,000.00 **Expected Completion Date** FALL 2014

PLEASE READ THE FOLLOWING STATEMENTAND SIGN YOUR NAME:

The information contained in this application and in all attachments is true and correct to the best of my knowledge. I further acknowledge that I have familiarized myself with all applicable sections of the Worthington Codified Ordinances and will comply with all applicable regulations.

Applicant (Signature) — Date 3/20/13

T. GEHRING — Property Owner (Signature) — Date 4.1.13

Abutting Property Owners List for
300 W. Dublin-Granville Rd.

Kevin & Molly King	420 Medick Way	Worthington, OH 43085
Scott & Karen Taylor	440 Medick Way	Worthington, OH 43085
Penny Dietrich	460 Medick Way	Worthington, OH 43085
Inez Smith	480 Medick Way	Worthington, OH 43085
Gregory & Elizabeth Ames	495 Tucker Dr.	Worthington, OH 43085
Thomas & Penny Boes	515 Tucker Dr.	Worthington, OH 43085
Brian & Dolores Jimenez	541 Tucker Dr.	Worthington, OH 43085
Nancy Emrich	559 Tucker Dr.	Worthington, OH 43085
Douglas & Ann Metz	575 Tucker Dr.	Worthington, OH 43085
Ellin Patchen	589 Tucker Dr.	Worthington, OH 43085
Benedicta Enrile	607 Tucker Dr.	Worthington, OH 43085
John & Susan Vincent	381 W. Dublin-Granville Rd.	Worthington, OH 43085
Timothy Cave	373 W. Dublin-Granville Rd.	Worthington, OH 43085
David Swerediuk	365 W. Dublin-Granville Rd.	Worthington, OH 43085
Petr Hradecky	357 W. Dublin-Granville Rd.	Worthington, OH 43085
Katherina Van Tuyl	661 Seabury Dr.	Worthington, OH 43085

Worthington City Schools
Outdoor Education Center

Design Narrative

Built in the early 1960's along the banks of the Olentangy River as a Shelter House for the Worthington Board of Education, the Outdoor Education Center has served the community faithfully for many years. In assessing the state of the facility today for repurposing, one need only to look at the excellent condition of its "bones". *Renovation by Subtraction* is not a revolutionary new idea but is one quite appropriate to recapturing and revitalizing the Outdoor Education Center to once again serve the immediate needs of the Worthington Community. The proposed project scope of work would include the removal of all wood framed and sheathed construction that has occurred over the years and would restore the exterior and interior masonry, replace the roofing and also replace elements of the hydronic heating and cooling systems. New construction would be limited to enclosing the facility's exterior "voids" by installing new glass overhead doors and new exterior doors and windows, enlarging the toilet room facilities while making them accessible to the disabled, renovating elements of the catering kitchen, adding audio-visual and technology systems and enclosing new offices flanking the re-purposed gas burning fireplace. If sufficient funds are raised, the area immediately adjacent to the facility would be improved with new plantings and hardscape...possibly even to include an in-ground barbecue pit. The renovated Outdoor Education Center will become a community destination site to augment the engagement of the Olentangy River and the surrounding natural environment.

The following groups have endorsed the Outdoor Education Center project and have identified its proposed use as follows:

COMMUNITY

1. Help reconnect the community with our beautiful natural resources (Olentangy River and surrounding nature areas, bike trails, etc...) waterfront property is rare and ours is underutilized by the community;
2. Respite spot for families using the bike trails and surrounding areas (always discouraging not to have bathrooms and drinking water when exercising on the trails or playing with young children);
3. Great new use for a currently dilapidated and under-utilized building/resource;
4. Gathering spot for family/neighborhood/alumni get-togethers, sports banquets (WYB), etc...
5. Great opportunity for continuing community collaboration (Rotary, City, Schools, Educational Foundation);
6. Outdoor education opportunity for schools and community at large;
7. Other organizations will be able to utilize/rent facilities as well (ie. Marathon in Training MIT, Orvis (fly fishing demos/classes?), WYB, etc...

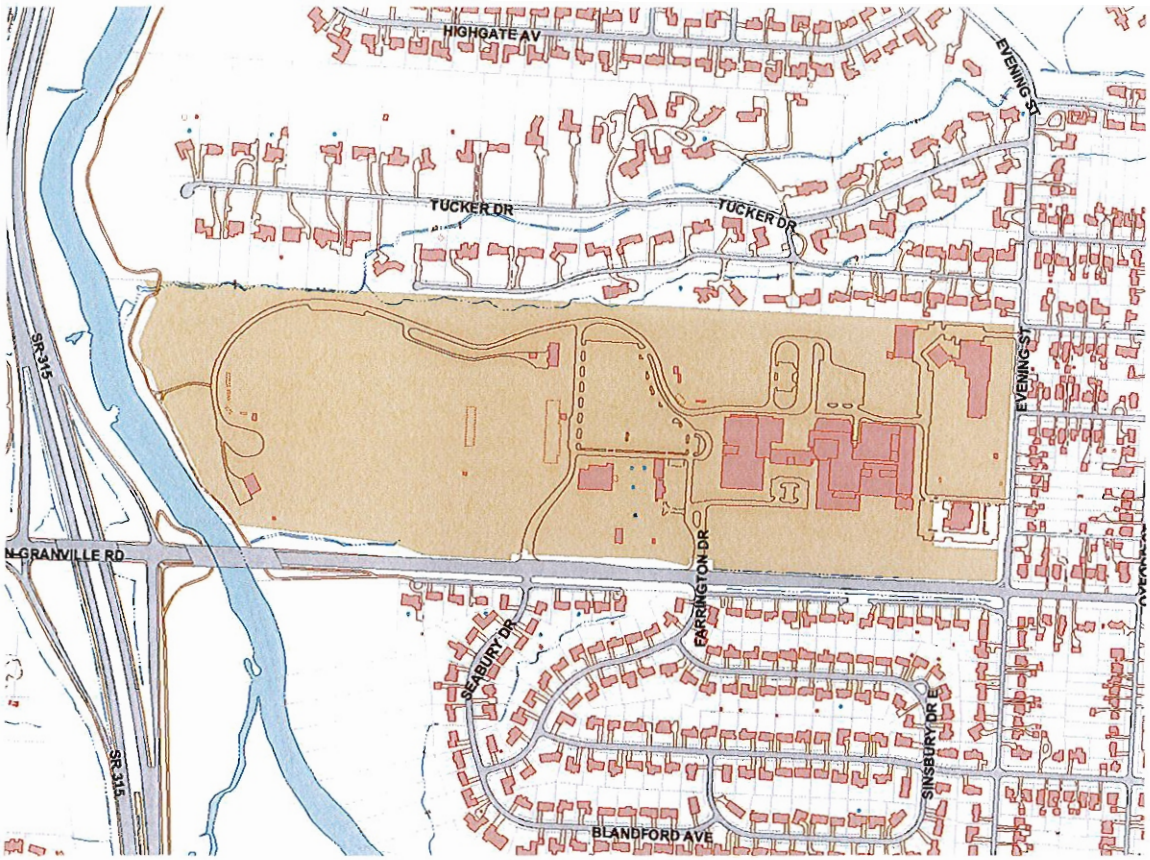
YOUTH BOOSTERS

WYB has various programs in the flats portion of the Thomas Worthington Athletic Facility during the year. Lacrosse teams utilize it for practice space in the spring, Softball occasionally uses the lower field in the late Spring and Summer. In the fall, our Flag Football program conducts games there on Sunday afternoons. If the building in the flats (previously for Outdoor Education) were to be remodeled for a different purpose, WYB may have potential use for the shelter in the following areas...

1) Team / League / Coaches Meetings
2) Bathroom Facilities (WYB occasionally has ports-johns placed in the area)
3) Drink Station, if Water is provided.
4) Umpire / Referee Trainings & and Payouts
5) Safety Shelter during inclement weather

MARATHONERS-IN-TRAINING (support the project)

300 W. Dublin-Granville Rd.



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CITY OF WORTHINGTON
DRAWING NO.
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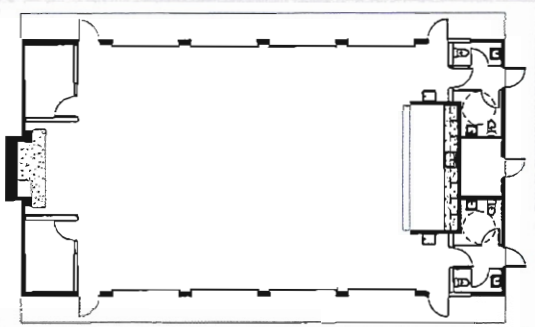
Outdoor Education Center



The Worthington City Schools, Outdoor Education Center is to be returned to its original, elegantly simple condition by removing the added wood partitions and wood sided storage modules which are out of character with the original building aesthetic...one anchored in a "Park Shelter" style of masonry piers and voids. The original concrete floor and raised concrete teaching/lecture platform will be retained to include a large caterer's kitchen composed of the restored metal cabinets with a new concrete countertop. The existing, glue-lam wood beams and wood roof decking will be restored to their natural wood finish as will the interior hearth with the addition of a new gas burning logs. A few concrete masonry partitions will be added for the creation of program supporting toilet rooms (designed for limited accessibility after hours) utility closets, an office and general storage. The exterior brick masonry which will also be restored with the addition of a new limestone chimney cap and new dimensional shingle roof while the parking and exterior landscaping and hardscape will soon allow functions to spill out onto the grounds. On-site security systems and flood lighting will help to protect the repurposed facility, allowing the renovated Outdoor Education Center to remain open to the surrounding natural environment with the addition of new, glass overhead doors inserted between the masonry piers, so that the building may be utilized by the School District and the greater Worthington Community for many years to come.

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Peter S. Macraz AIA
Principal
Macraz Architecture LLC

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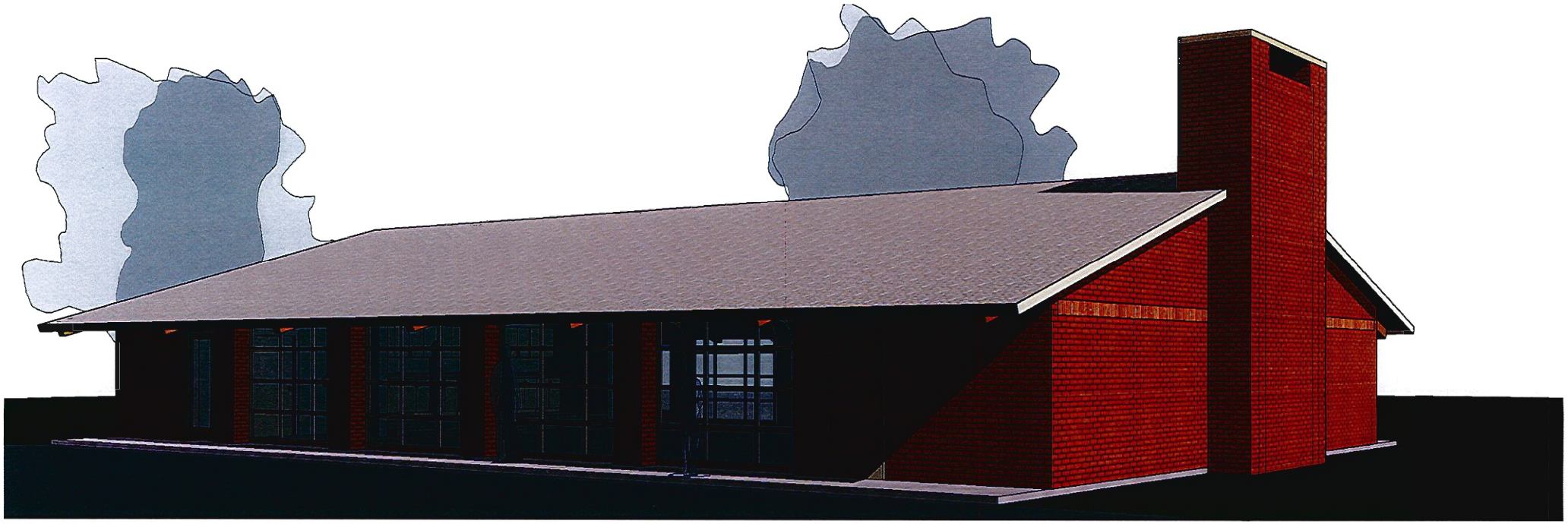

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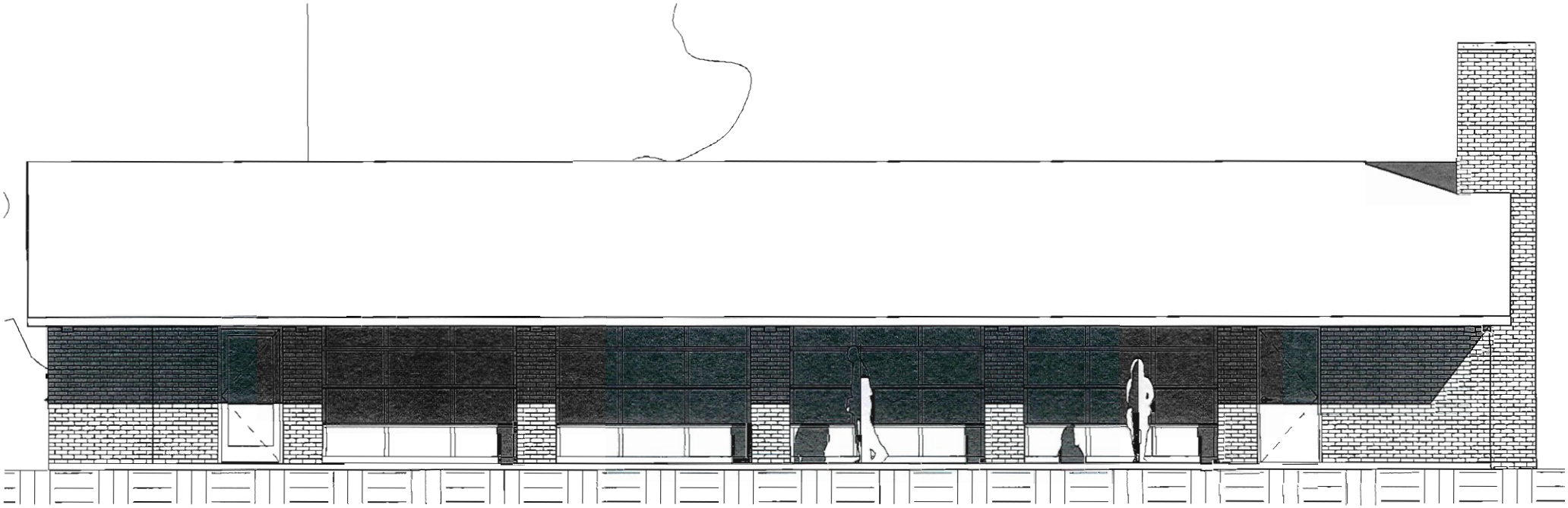

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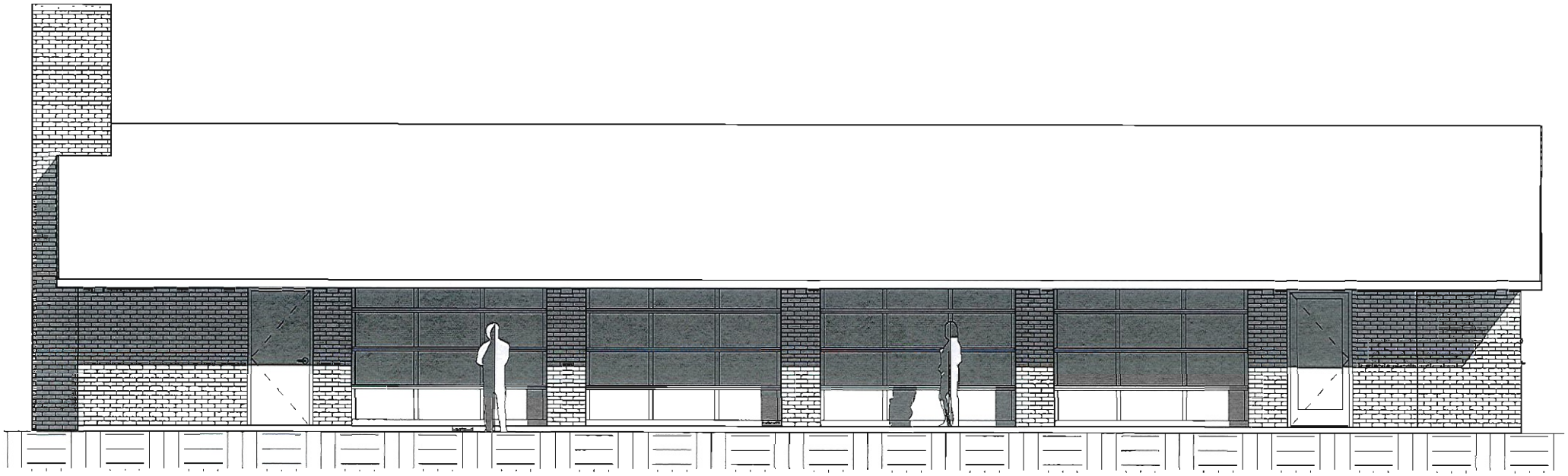

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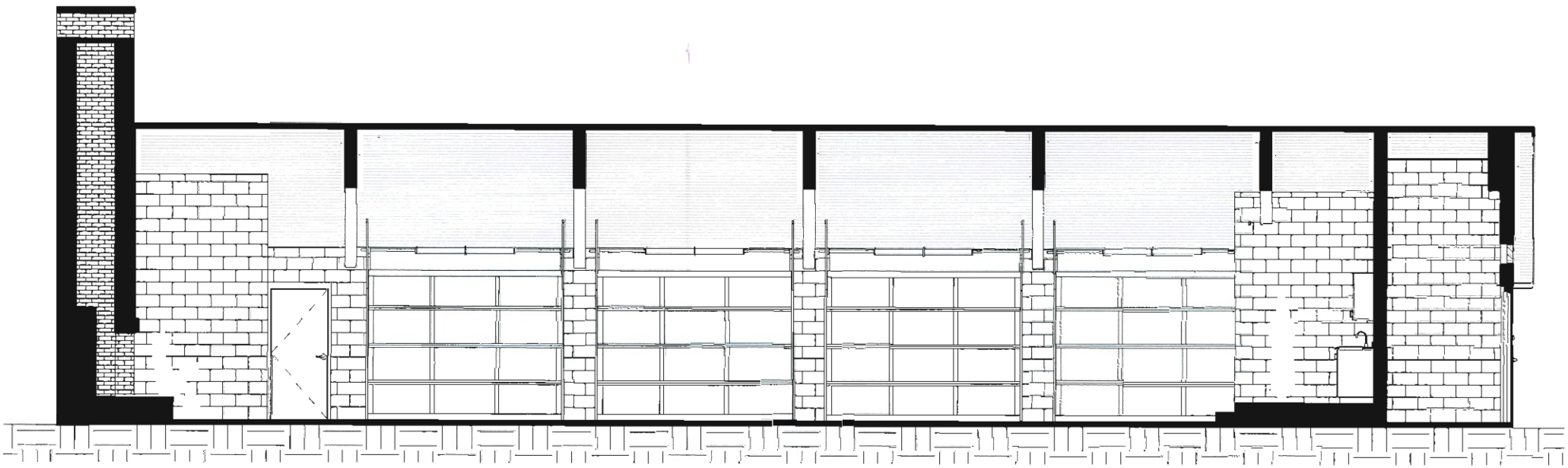

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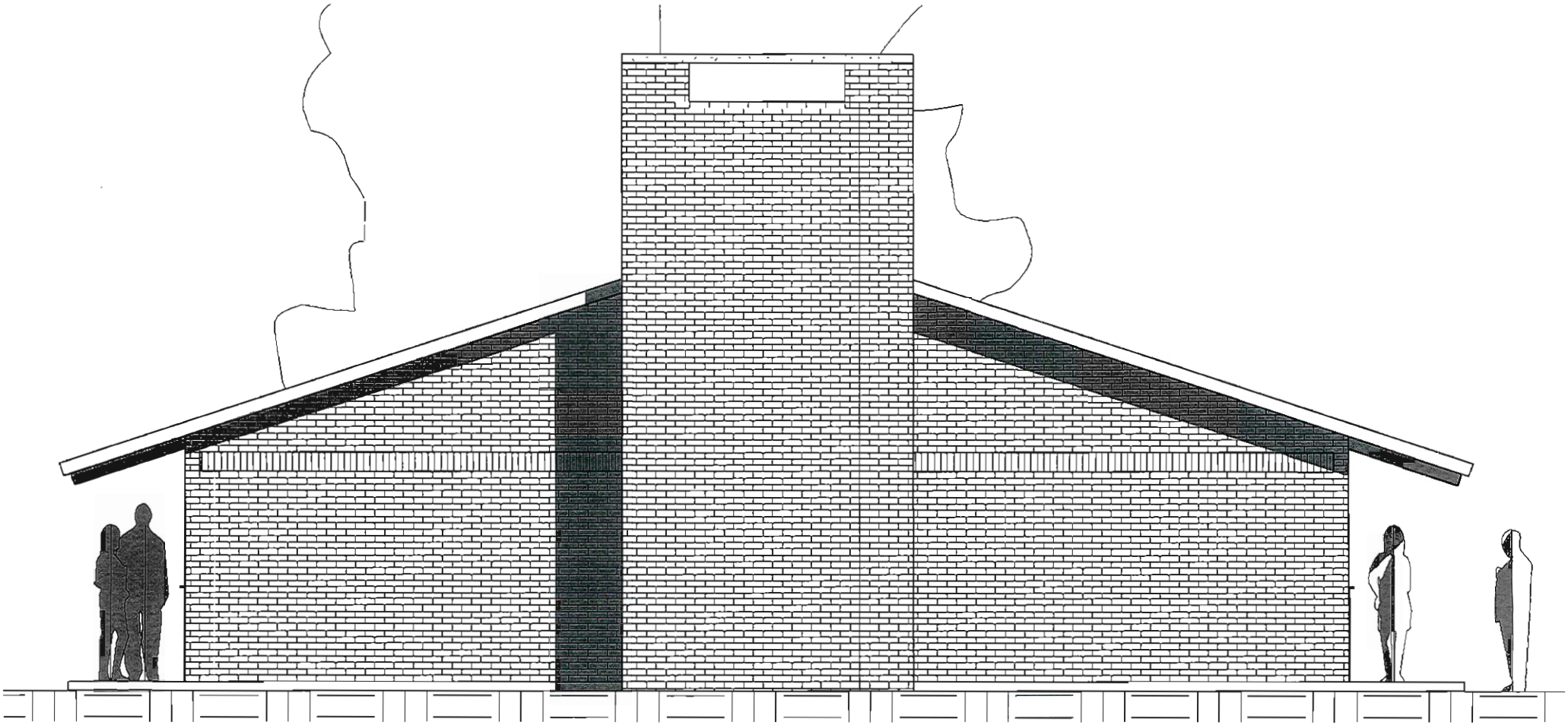

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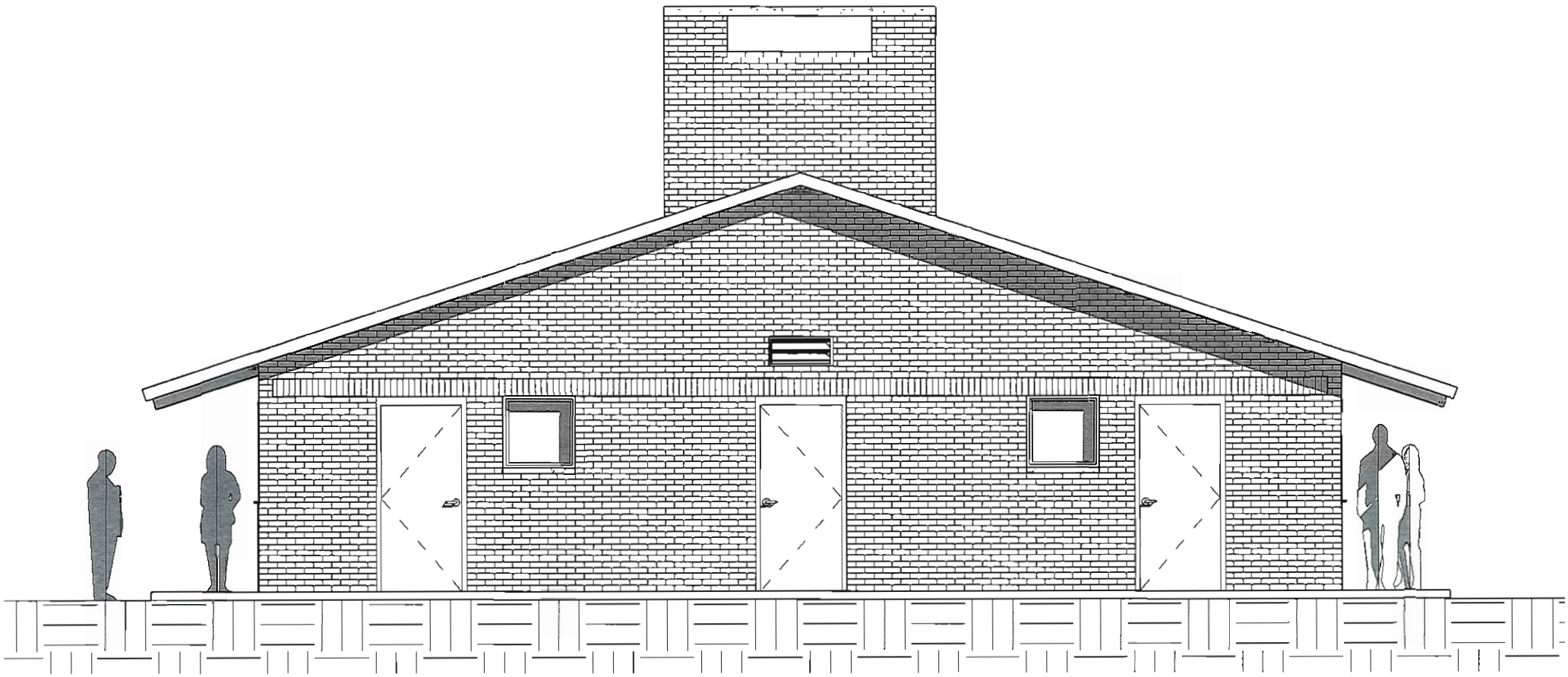

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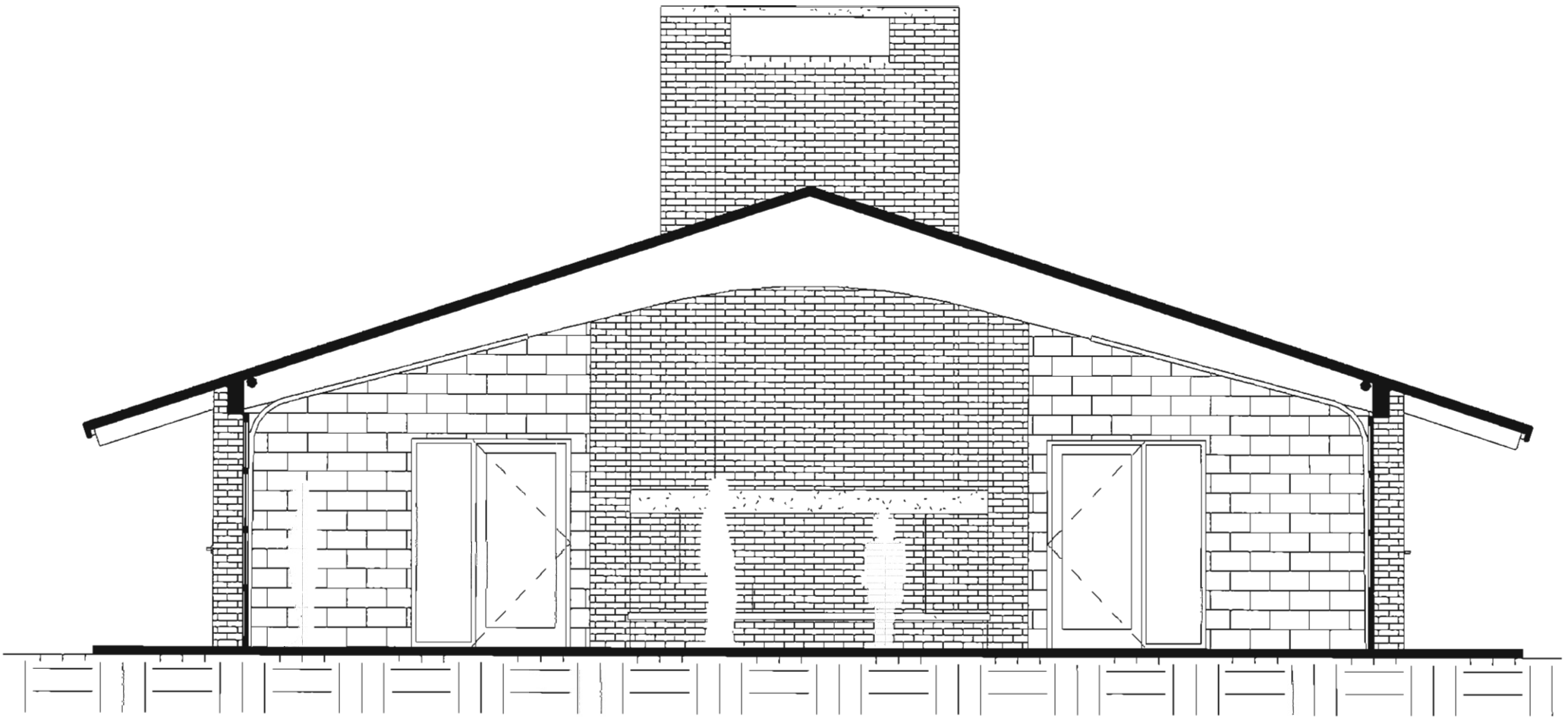

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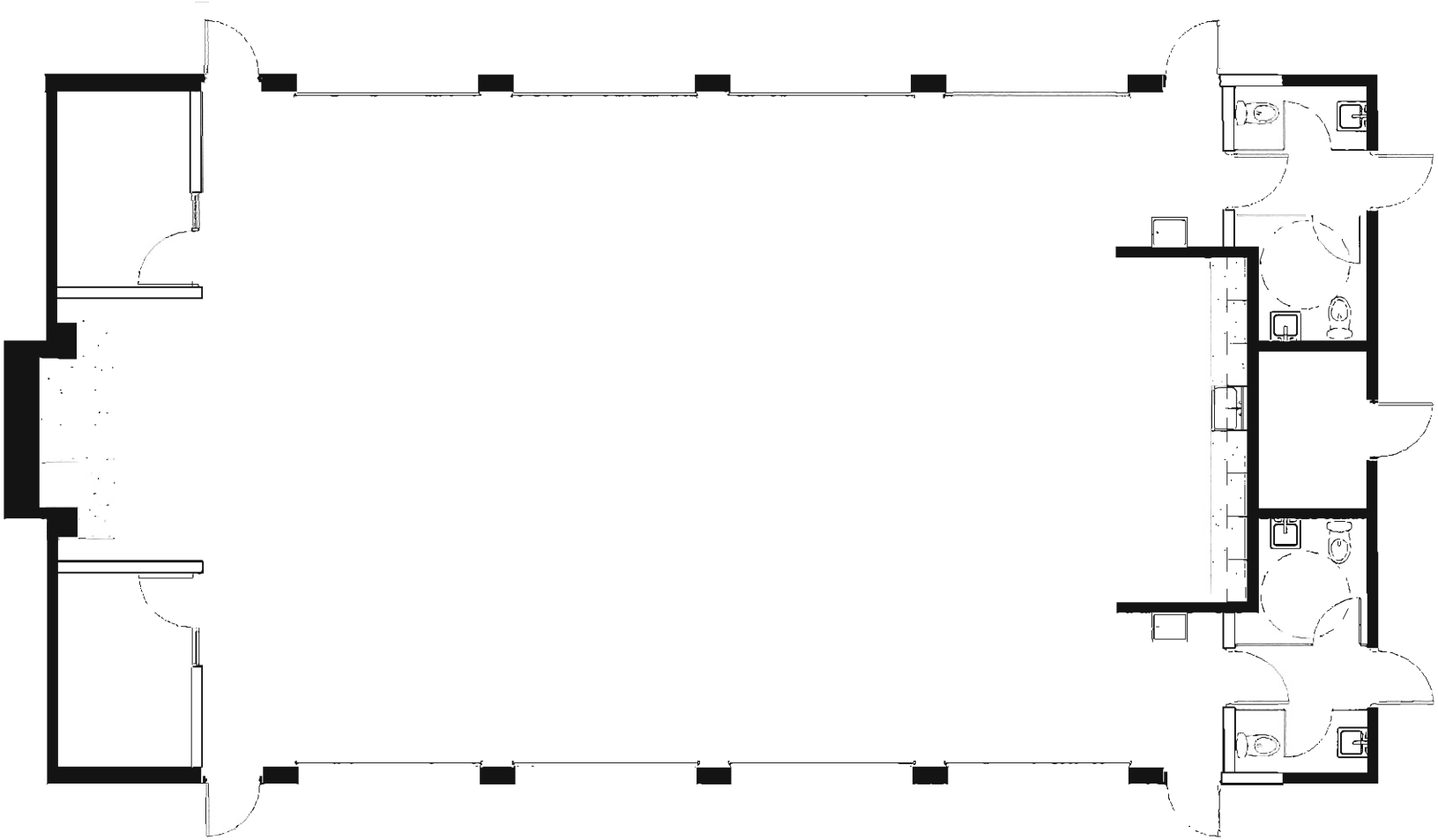

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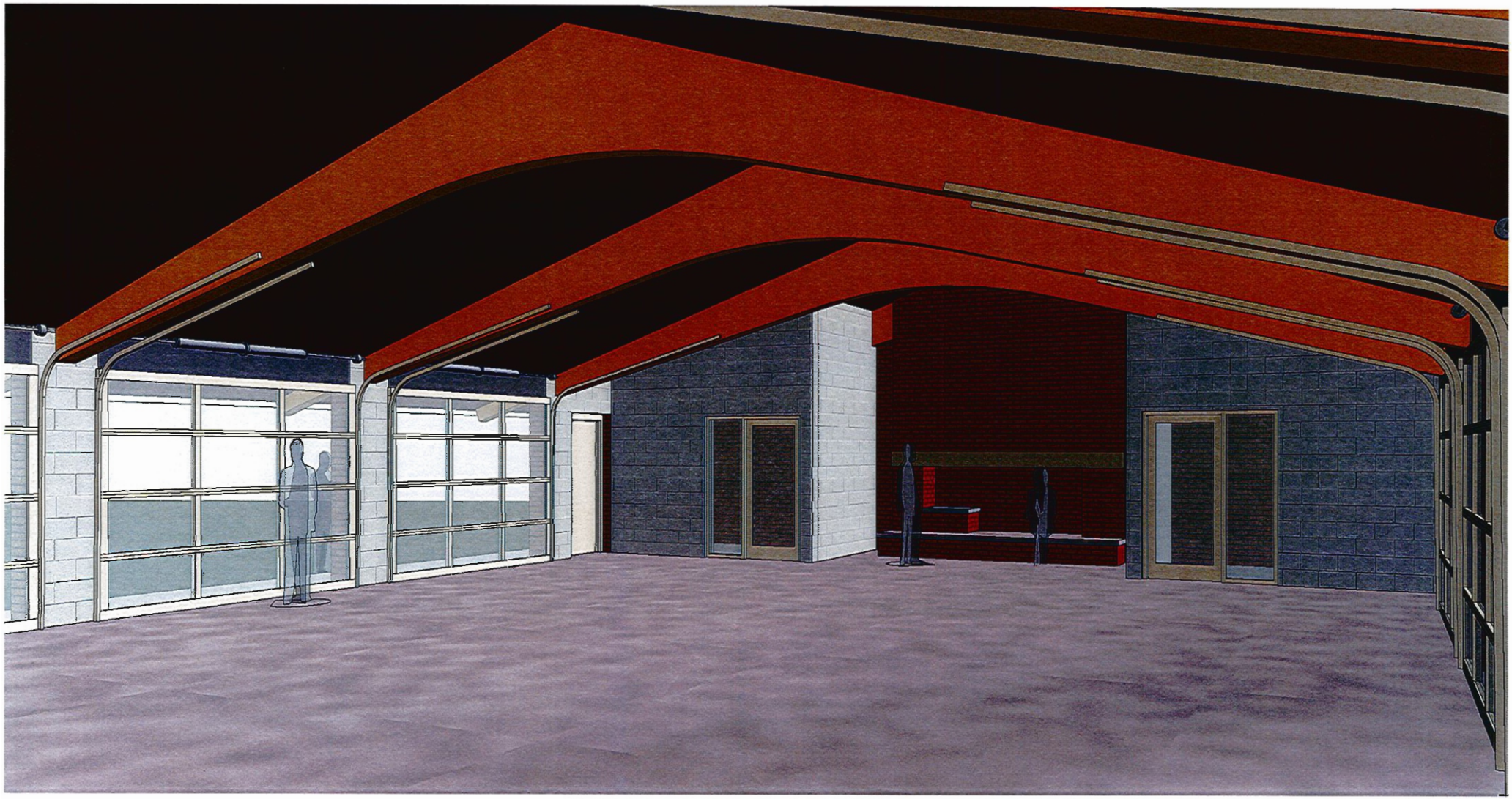

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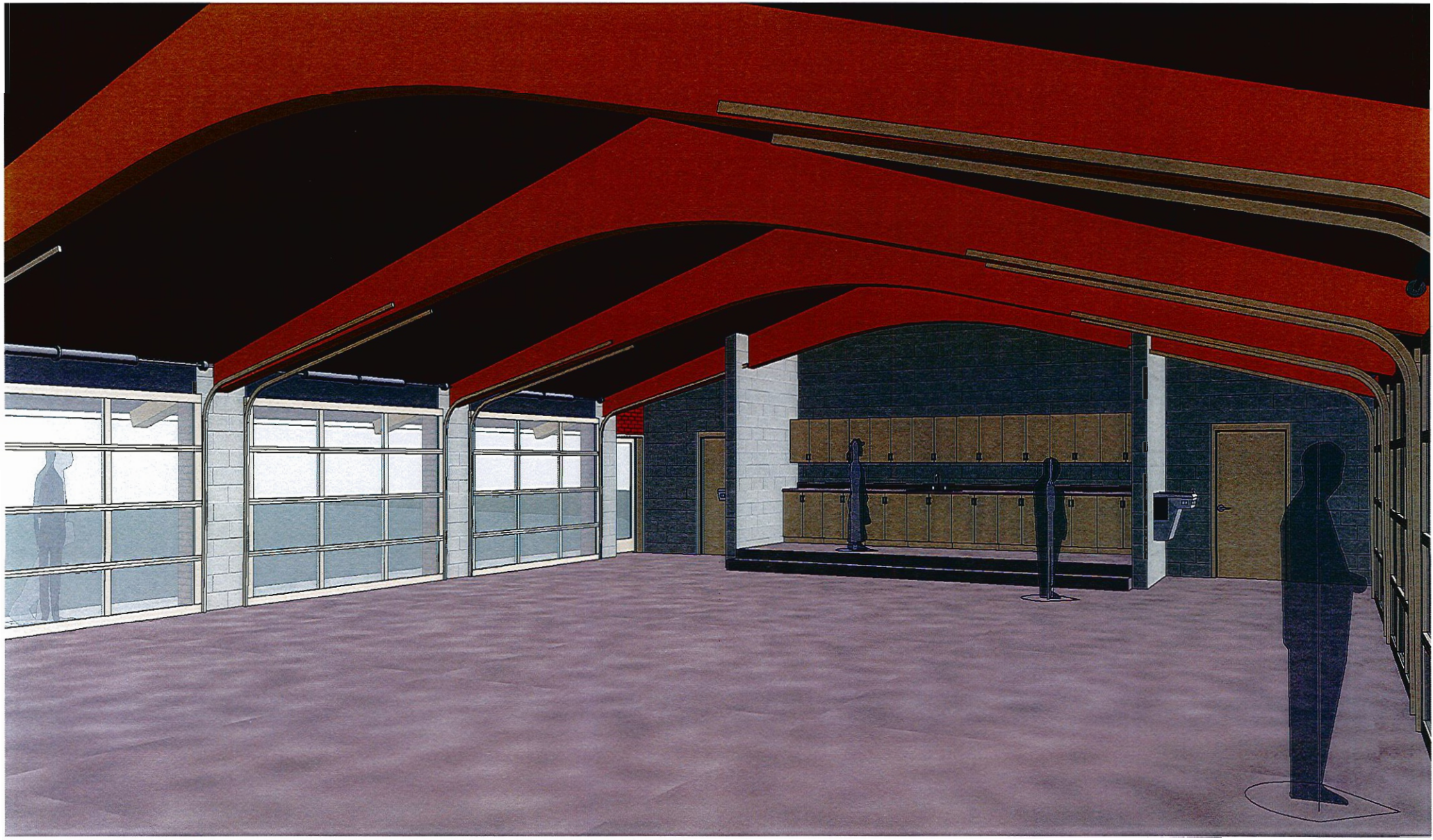

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D-Series Size 1
LED Wall Luminaire

Catalog Number	
Notes	
Type	B

d"series

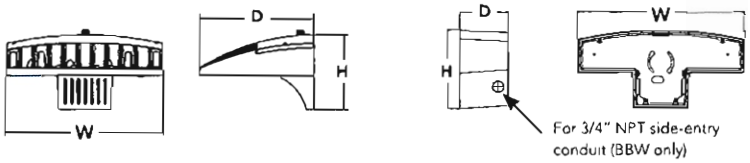
Specifications

Luminaire

Width:	13-3/4" (34.9 cm)	**Weight:**	12 lbs (5.4 kg)
Depth:	10" (25.4 cm)		
Height:	6-3/8" (16.2 cm)		

Back Box (BBW, ELCW)

Width:	13-3/4" (34.9 cm)	**BBW Weight:**	5 lbs (2.3 kg)
Depth:	4" (10.2 cm)	**ELCW Weight:**	10 lbs (4.5 kg)
Height:	6-3/8" (16.2 cm)		



Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

DSXW1 LED

Series	Performance Package	Distribution	Voltage	Mounting	Control Options	Other Options	Finish *(required)*
DSXW1 LED	**LEDs** 10C 10 LEDs (one engine) 20C 20 LEDs (two engines) **Drive current** 350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A) **Color temperature** 30K 3000K 40K 4000K 50K 5000K	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium	MVOLT[1] 120[1] 208[1] 240[1] 277[1]	**Shipped included** (blank) Surface mounting bracket BBW Surface-mounted back box (for conduit entry)[2]	**Shipped installed** PE Photoelectric cell, button type[3] DMG 0-10V dimming driver (no controls) PIR 180° motion sensor, <15' mtg ht[4,6] PIRH 180° motion sensor, 15-30' mtg ht[4,6] ELCW Emergency battery backup (includes external component enclosure)[7]	**Shipped installed** SF Single fuse (120, 277V)[3] DF Double fuse (208, 240V)[3] HS House-side shield[9] **Shipped separately** BSW Bird-deterrent spikes[9] WG Wire guard[9] VG Vandal guard[9]	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone

NOTES

1. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
2. Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
3. Photocontrol (PE) requires 120, 208, 240 or 277 voltage option.
4. Specifies the Sensor Switch SBR-10-ODP control; see Motion Sensor Guide for details. Dimming driver standard.
5. Specifies the Sensor Switch SBR-6-ODP control; see Motion Sensor Guides for details. Dimming driver standard.
6. Not available with 20 LED/1000 mA configuration (DSXW1 LED 20C 1000).
7. Not compatible with conduit entry applications. Not available with BBW mounting option.
8. Single fuse (SF) requires 120 or 277 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
9. Also available as a separate accessory; see Accessories information.

Accessories

Ordered and shipped separately

DSXWHS U	House-side shield (one per light engine)
DSXWBSW U	Bird-deterrent spikes
DSXW1WG U	Wire guard accessory
DSXW1VG U	Vandal guard accessory

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LITHONIA LIGHTING
One Lithonia Way • Conyers, Georgia 30012 • Phone. 800 279 8041 • Fax 770.918.1209 • www.lithonia.com
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Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	Performance Package	System Watts	Dist. Type	40K (4000K, 70 CRI)					50K (5000K, 65 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
10C (10 LEDs)	530	10C 530 --K	20 W	T2S	1724	1	0	1	86	1807	1	0	1	90
				T2M	1729	1	0	1	86	1812	1	0	1	91
				T3S	1709	1	0	1	85	1792	1	0	1	90
				T3M	1753	1	0	1	88	1838	1	0	1	92
				T4M	1753	1	0	1	88	1837	1	0	1	92
				TFTM	1766	1	0	1	88	1851	1	0	1	93
	700	10C 700 --K	27 W	T2S	2234	1	0	1	83	2341	1	0	1	87
				T2M	2241	1	0	1	83	2349	1	0	1	87
				T3S	2216	1	0	1	82	2322	1	0	1	86
				T3M	2272	1	0	1	84	2381	1	0	1	88
				T4M	2272	1	0	1	84	2381	1	0	1	88
				TFTM	2289	1	0	1	85	2399	1	0	1	89
	1000	10C 1000 --K	40 W	T2S	2992	1	0	1	75	3136	1	0	1	78
				T2M	3001	1	0	1	75	3146	1	0	1	79
				T3S	2967	1	0	1	74	3110	1	0	1	78
				T3M	3043	1	0	1	76	3189	1	0	1	80
				T4M	3043	1	0	1	76	3189	1	0	1	80
				TFTM	3066	1	0	1	77	3213	1	0	1	80
20C (20 LEDs)	530	20C 530 --K	36 W	T2S	3545	1	0	1	98	3715	1	0	1	103
				T2M	3556	1	0	1	99	3727	1	0	1	104
				T3S	3515	1	0	1	98	3685	1	0	1	102
				T3M	3606	1	0	2	100	3779	1	0	2	105
				T4M	3605	1	0	1	100	3779	1	0	1	105
				TFTM	3632	1	0	1	101	3807	1	0	1	106
	700	20C 700 --K	47 W	T2S	4357	1	0	1	93	4566	1	0	1	97
				T2M	4370	1	0	1	93	4580	1	0	1	97
				T3S	4320	1	0	1	92	4528	1	0	1	96
				T3M	4431	1	0	2	94	4644	1	0	2	99
				T4M	4430	1	0	1	94	4644	1	0	2	99
				TFTM	4464	1	0	1	95	4678	1	0	1	100
	1000	20C 1000 --K	75 W	T2S	5745	2	0	2	77	6020	2	0	2	80
				T2M	5763	1	0	2	77	6039	2	0	2	81
				T3S	5697	1	0	1	76	5970	1	0	2	80
				T3M	5843	1	0	2	78	6123	2	0	2	82
				T4M	5843	1	0	2	78	6123	1	0	2	82
				TFTM	5887	1	0	2	78	6169	1	0	2	82

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	**77°F**	**1.00**
30°C	86°F	1.00
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXW1 LED 20C 1000** platform in a **25°C** ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.93	0.88

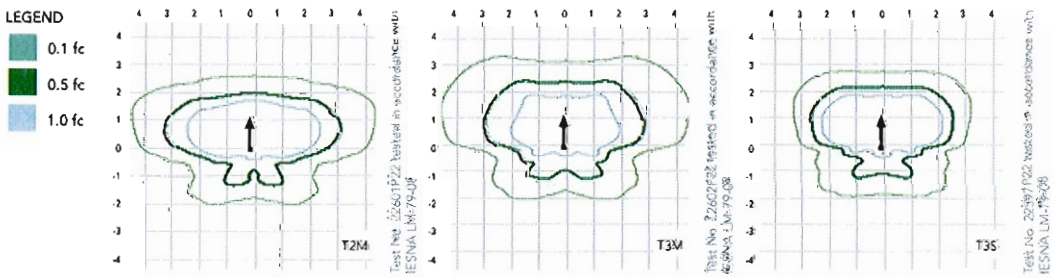
Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A) 120	208	240	277	347	480
10C	350	14 W	0.13	0.07	0.06	0.06	-	-
	530	20 W	0.19	0.11	0.09	0.08	-	-
	700	27 W	0.25	0.14	0.13	0.11	-	-
	1000	40 W	0.37	0.21	0.19	0.16	-	-
20C	350	25 W	0.23	0.13	0.12	0.10	-	-
	530	36 W	0.33	0.19	0.17	0.14	-	-
	700	47 W	0.44	0.25	0.22	0.19	-	-
	1000	75 W	0.69	0.40	0.35	0.30	-	-

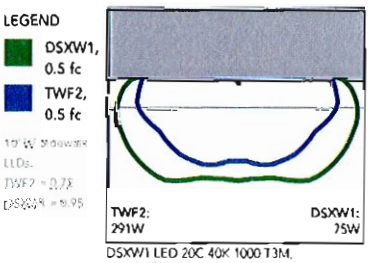
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Wall Size 1 homepage.

Isofootcandle plots for the DSXW1 LED 20C 1000 40K. Distances are in units of mounting height (15').



Distribution overlay comparison to 250W metal halide



DSXW1 LED 20C 40K 1000 T3M, TWF2 250M Pulse, 15' Mounting Ht

FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 1 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION

Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000K (80 min. CRI), 4000K (70 min. CRI) or 5000K (65 min. CRI) configurations.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L88/100,000 hrs at 25°C). Class 1 electronic drivers have a power factor >90%, THD <20%, and an expected life of 100,000 hours. Surge protection device meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

LISTINGS

CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

WARRANTY

Five year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Specifications subject to change without notice.

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DATE 4-3-13

LITHONIA LIGHTING
One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • Fax: 770.918.1209 • www.lithonia.com
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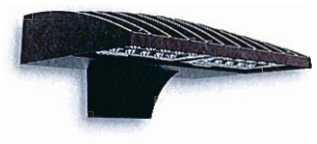


D-Series Size 1
LED Wall Luminaire

Catalog Number	
Notes	
Type	B-EM

d"series

Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

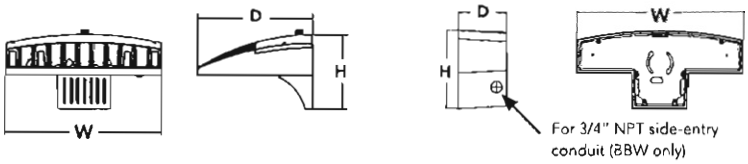
Specifications

Luminaire

Width: 13-3/4" (34.9 cm)
Depth: 10" (25.4 cm)
Height: 6-3/8" (16.2 cm)
Weight: 12 lbs (5.4 kg)

Back Box (BBW, ELCW)

Width: 13-3/4" (34.9 cm)
Depth: 4" (10.2 cm)
Height: 6-3/8" (16.2 cm)
BBW Weight: 5 lbs (2.3 kg)
ELCW Weight: 10 lbs (4.5 kg)



Ordering Information

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

DSXW1 LED

Series	Performance Package	Distribution	Voltage	Mounting	Control Options	Other Options	Finish *(required)*
DSXW1 LED	**LEDs** 10C 10 LEDs (one engine) 20C 20 LEDs (two engines) **Drive current** 350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A) **Color temperature** 30K 3000K 40K 4000K 50K 5000K	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium	MVOLT[1] 120[1] 208[1] 240[1] 277[1]	**Shipped included** (blank) Surface mounting bracket BBW Surface-mounted back box (for conduit entry)[2]	**Shipped installed** PE Photoelectric cell, button type[3] DMG 0-10V dimming driver (no controls) PIR 180° motion sensor, <15' mtg ht[4,6] PIRH 180° motion sensor, 15-30' mtg ht[5,6] ELCW Emergency battery backup (includes external component enclosure)[7]	**Shipped installed** SF Single fuse (120, 277V)[8] DF Double fuse (208, 240V)[8] HS House-side shield[9] **Shipped separately** BSW Bird-deterrent spikes[9] WG Wire guard[9] VG Vandal guard[9]	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone

NOTES

1. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
2. Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
3. Photocontrol (PE) requires 120, 208, 240 or 277 voltage option.
4. Specifies the Sensor Switch SBR-10-ODP control; see iMotion Sensor Guide for details. Dimming driver standard.
5. Specifies the Sensor Switch SBR-6-ODP control; see Motion Sensor Guide for details. Dimming driver standard.
6. Not available with 20 LED/1000 mA configuration (DSXW1 LED 20C 1000).
7. Not compatible with conduit entry applications. Not available with BBW mounting option.
8. Single fuse (SF) requires 120 or 277 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
9. Also available as a separate accessory; see Accessories information.

Accessories

Ordered and shipped separately.

DSXWHS U	House-side shield (one per light engine)
DSXWBSW U	Bird-deterrent spikes
DSXW1WG U	Wire guard accessory
DSXW1VG U	Vandal guard accessory

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Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	Performance Package	System Watts	Dist. Type	40K (4000K, 70 CRI)					50K (5000K, 65 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
10C (10 LEDs)	530	10C 530 --K	20 W	T2S	1724	1	0	1	86	1807	1	0	1	90
				T2M	1729	1	0	1	86	1812	1	0	1	91
				T3S	1709	1	0	1	85	1792	1	0	1	90
				T3M	1753	1	0	1	88	1838	1	0	1	92
				T4M	1753	1	0	1	88	1837	1	0	1	92
				TFTM	1766	1	0	1	88	1851	1	0	1	93
	700	10C 700 --K	27 W	T2S	2234	1	0	1	83	2341	1	0	1	87
				T2M	2241	1	0	1	83	2349	1	0	1	87
				T3S	2216	1	0	1	82	2322	1	0	1	86
				T3M	2272	1	0	1	84	2381	1	0	1	88
				T4M	2272	1	0	1	84	2381	1	0	1	88
				TFTM	2289	1	0	1	85	2399	1	0	1	89
	1000	10C 1000 --K	40 W	T2S	2992	1	0	1	75	3136	1	0	1	78
				T2M	3001	1	0	1	75	3146	1	0	1	79
				T3S	2967	1	0	1	74	3110	1	0	1	78
				T3M	3043	1	0	1	76	3189	1	0	1	80
				T4M	3043	1	0	1	76	3189	1	0	1	80
				TFTM	3066	1	0	1	77	3213	1	0	1	80
20C (20 LEDs)	530	20C 530 --K	36 W	T2S	3545	1	0	1	98	3715	1	0	1	103
				T2M	3556	1	0	1	99	3727	1	0	1	104
				T3S	3515	1	0	1	98	3685	1	0	1	102
				T3M	3606	1	0	2	100	3779	1	0	2	105
				T4M	3605	1	0	1	100	3779	1	0	1	105
				TFTM	3632	1	0	1	101	3807	1	0	1	106
	700	20C 700 --K	47 W	T2S	4357	1	0	1	93	4566	1	0	1	97
				T2M	4370	1	0	1	93	4580	1	0	1	97
				T3S	4320	1	0	1	92	4528	1	0	1	96
				T3M	4431	1	0	2	94	4644	1	0	2	99
				T4M	4430	1	0	1	94	4644	1	0	2	99
				TFTM	4464	1	0	1	95	4678	1	0	1	100
	1000	20C 1000 --K	75 W	T2S	5745	2	0	2	77	6020	2	0	2	80
				T2M	5763	1	0	2	77	6039	2	0	2	81
				T3S	5697	1	0	1	76	5970	1	0	2	80
				T3M	5843	1	0	2	78	6123	2	0	2	82
				T4M	5843	1	0	2	78	6123	1	0	2	82
				TFTM	5887	1	0	2	78	6169	1	0	2	82

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	**77°F**	**1.00**
30°C	86°F	1.00
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXW1 LED 20C 1000** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.93	0.88

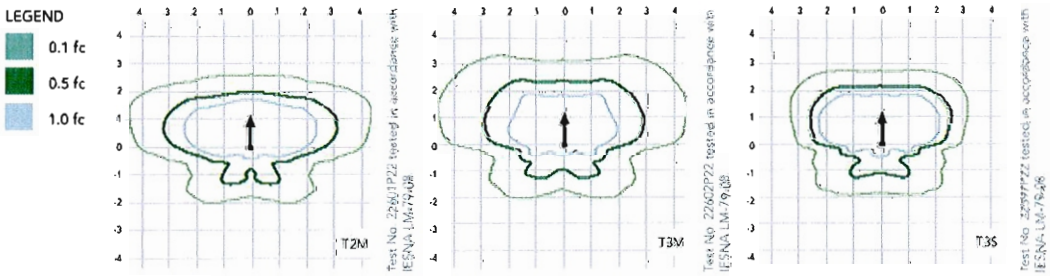
Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A) 120	208	240	277	347	480
10C	350	14 W	0.13	0.07	0.06	0.06	-	-
	530	20 W	0.19	0.11	0.09	0.08	-	-
	700	27 W	0.25	0.14	0.13	0.11	-	-
	1000	40 W	0.37	0.21	0.19	0.16	-	-
20C	350	25 W	0.23	0.13	0.12	0.10	-	-
	530	36 W	0.33	0.19	0.17	0.14	-	-
	700	47 W	0.44	0.25	0.22	0.19	-	-
	1000	75 W	0.69	0.40	0.35	0.30	-	-

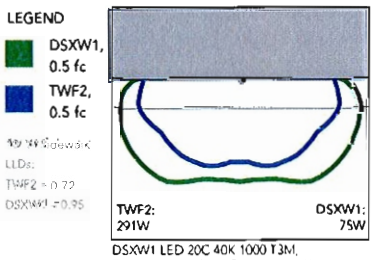
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Wall Size 1 homepage.

Isofootcandle plots for the DSXW1 LED 20C 1000 40K. Distances are in units of mounting height (15').



Distribution overlay comparison to 250W metal halide



DSXW1 LED 20C 40K 1000 T3M, TWF2 250M Pulse, 15' Mounting Ht

FEATURES & SPECIFICATIONS

INTENDED USE
The energy savings, long life and easy-to-install design of the D-Series Wall Size 1 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility

CONSTRUCTION
Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in textured and non-textured finishes

OPTICS
Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000K (80 min. CRI), 4000K (70 min. CRI) or 5000K (65 min. CRI) configurations

ELECTRICAL
Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L88/100,000 hrs at 25°C). Class 1 electronic drivers have a power factor >90%, THD <20%, and an expected life of 100,000 hours. Surge protection device meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION
Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

LISTINGS
CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient

WARRANTY
Five year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Specifications subject to change without notice.

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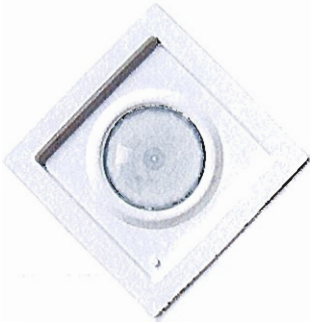
SBR 10 ODP
SBR 6 ODP



OUTDOOR EMBEDDED MOTION SENSOR

360° COVERAGE • ON/OFF/DIM • PHOTOCELL • IP66 RATED

SPECIFICATIONS

FEATURES

- 100% Digital PIR Detection, Excellent RF Immunity
- Integrated Photocell
- Self-Contained Relay for Switching
- 0-10 VDC Output for Dimming
- Gasketed for use in Wet Location Luminaire
- Compatible w/ 0-10 VDC Dimmable Ballasts and LED Drivers
- Interchangeable Hot & Load Wires, Impossible to Wire in Reverse
- Adjustable Time Delays, Max/Min Dim Levels, and Ramp Rates
- Programming Button Accessible w/o Opening Sensor or Removing Gaskets
- No Field Calibration or Sensitivity Adjustments Required
- Non-Volatile Settings Memory
- Convenient Test Mode
- Green LED Indicator

PHYSICAL SPECS

3.40" H x 3.40" W x 1.40" D
(8.64 cm x 8.64 cm x 3.56 cm)
6 oz
2.65" (6.73 cm) square opening in fixture (minimum depth 1.50" (3.8 cm))
White or Black

ELECTRICAL SPECS

800 W @ 120 VAC
1000 W @ 208 VAC
1200 W @ 240 VAC
1200 W @ 277 VAC
1500 W @ 347 VAC
2160 W @ 480 VAC
None
1/4 HP
50/60 Hz
Sinks < 20mA
(0-10 VDC LED Drivers / Ballasts

ENVIRONMENTAL SPECS

-40° to 160° F (-40° to 71° C)

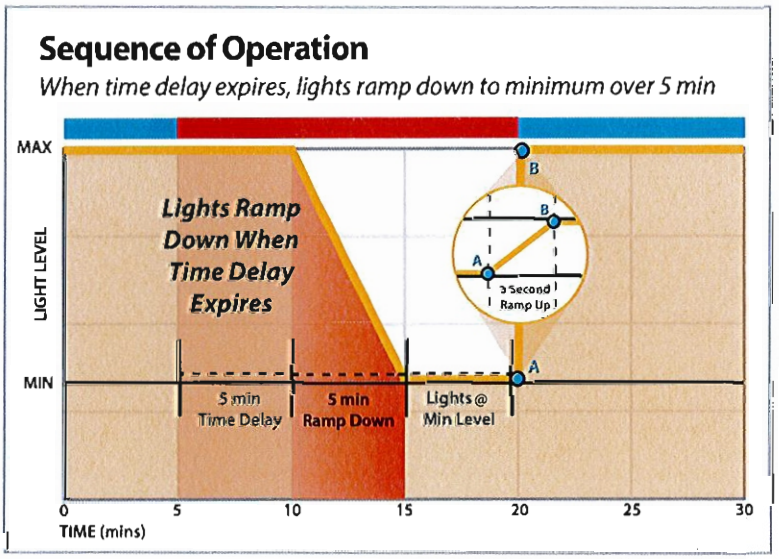
CSA LISTED
ASSEMBLED in U.S.A.
5 YEAR WARRANTY

OVERVIEW

The **SBR xx ODP** Series sensors provide both Motion and Daylight based control of a 0-10 VDC dimmable outdoor or wet location luminaire. The **SBR xx ODP** can both switch and dim its connected lighting. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The unit's integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight.

SEQUENCE OF OPERATION - MOTION

For outdoor applications, where occupant safety is of primary concern, the **SBR xx ODP** Series sensors are factory set to start dimming the lights once the motion time delay expires. Set to 5 min by default, this time delay is followed by a 5 min ramp down period where the lights slowly drop to the minimum dim level. Utilizing a long ramp down rate eliminates noticeable drops in light level. If motion is detected at any time during the ramp down period or when at the minimum dim level, the sensor will quickly ramp the lights back up to maximum level (default 100%) over a 3 sec (default) period. This ramp up period is intended to quickly return the lighting to full bright without distracting occupants with a sudden jump in the space's light level. The time delays, ramp rates, and max/min dim levels are user adjustable via the accessible push-button. See luminaire specifications for corresponding power level at minimum dim level.



SEQUENCE OF OPERATION - DAYLIGHT

To prevent lights from day-burning, the **SBR xx ODP** Series sensor will switch lighting completely off during periods of sufficient daylight. Providing on/off photocell control eliminates the need for astronomical or time clocks. Additionally, the sensor's closed loop photocell adjusts its calibration after every cycle to accommodate visual changes to the space in which they are installed (for example different color cars in a parking garage reflecting light differently). The photocell operation can also be set to dim lights to the minimum level instead of turning them off.

ORDERING INFO

SBR [MOUNTING HEIGHT/LENS] ODP [VOLTAGE] [COLOR] [MINIMUM DIM LEVEL]

OPTIONS	MOUNTING HEIGHT/LENS	VOLTAGE	COLOR	MIN DIM LEVEL	
	Low Mount Lens (8-15 ft) = 10	Blank = 120-277 VAC (MVOLT)	WH = White	1V = 1 VDC	4V = 4 VDC
	High Mount Lens (15-30 ft) = 6	HVOLT = 347-480 VAC	BK = Black	2V = 2 VDC	5V = 5 VDC
				3V = 3 VDC	0V = OFF

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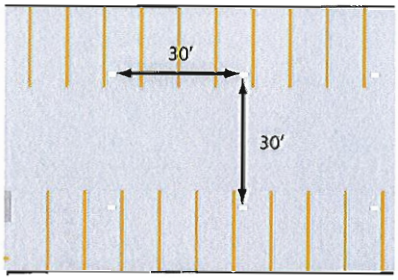
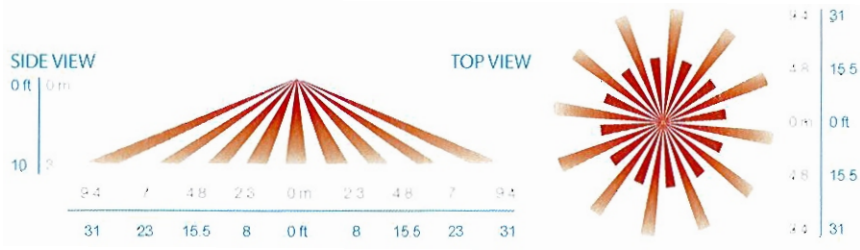
APPLICATION / COVERAGE

PARKING GARAGE / LOW MOUNT APPLICATIONS

In general, the **SBR 10 ODP** is recommended for 8-15 ft mounting and provides a coverage area radius for walking motion of greater than 2x the mounting height. The **SBR 10 ODP** is ideal for parking garage and other low mount applications. When mounted 10 ft high, for example embedded in a luminaire in a parking garage, the sensor's coverage for walking motion extends out 30 ft in a 360° pattern. This closely matches the lighting distribution of a typical parking garage luminaire. When embedded in a pole mounted fixture, for example, in a parking lot or along a path, the sensor provides 270° of coverage (90° is blocked by the pole).



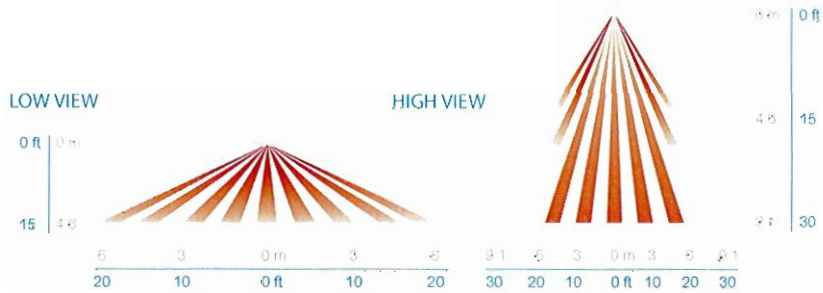
Typical 30'x30' spacing of parking garage luminaires



Coverage Pattern of Low Mount Lens Option (SBR 10 ODP)

SITE & AREA LIGHTING / HIGH MOUNT APPLICATIONS

The **SBR 6 ODP** is intended for higher applications, between 15-30 ft, and provides a coverage area radius for walking motion of 15-20 ft. When embedded in a fixture mounted to a pole the sensor provides 270° of coverage (90° is blocked by the pole).

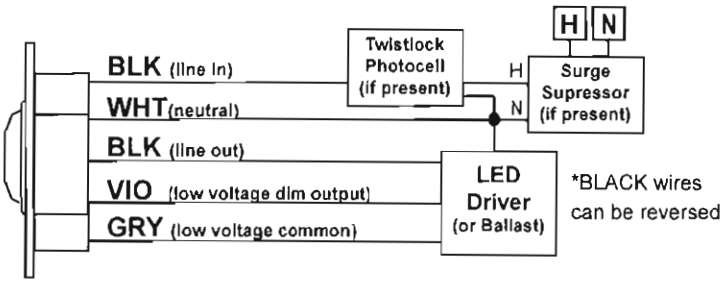


Coverage Pattern of High Mount Lens Option (SBR 6 ODP)

WIRING (DO NOT WIRE HOT)

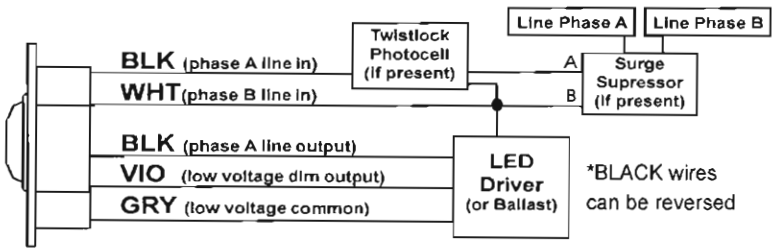
WIRING FOR 120/277/347

BLACK*	- 120/277 VAC Input (**RED** wire for 347 VAC)
BLACK*	- Switched Line Voltage Output to Luminaire (**RED** wire for 347 VAC)
WHITE	- Neutral
VIOLET	- Low Voltage Dimming Output (0-10 VDC)
GRAY	- Low Voltage Common



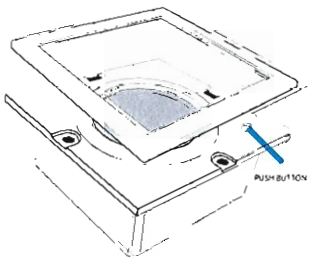
WIRING FOR 208/240/480 VAC

BLACK*	- 208/240 VAC Phase A Input (**RED** wire for 480 VAC)
BLACK*	- Switched Line Voltage Output to Luminaire (**RED** wire for 480 VAC)
WHITE	- Phase B of 208/240/480 VAC Input
VIOLET	- Low Voltage Dimming Output (0-10 VDC)
GRAY	- Low Voltage Common



INSTALLATION

- The SBR Series offers a custom look for recess mounting in lighting fixtures. It mounts inside a 2.65" square opening in a fixture (minimum depth 1.50").
- Sensor will detect motions crossing segments more effectively than motions parallel to beams
- If the sensor loses power, the internal relay will latch closed and the dimming output will allow lights to return to full bright.



PROGRAMMING

Refer to instruction card IC14.001 for default settings and directions on programming via the push-button.

WARNING

Fire Hazard Caution: Maximum Lamps 1500 Watts, Type 347 VAC.
Attention. Risque d'incendie : Pauissance Maximales Des Lampes 1500 Watts, Type 347 VAC.
Warning: The units are intended to be installed by a qualified person with properly rated branch circuit protectors as per applicable local and national regulations (CEC, NEC).

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WARRANTY: Sensor Switch, Inc. warrants these products to be free of defects in manufacture and workmanship for a period of 60 months. Sensor Switch, Inc., upon prompt notice of such defect, will, at its option, provide a Returned Material Authorization number and repair or replace returned product.
LIMITATIONS AND EXCLUSIONS: This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch, Inc. be liable for any incidental or consequential property damages or losses.

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JUNO

Project:

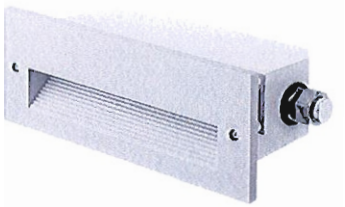
Fixture Type:

Location:

Contact/Phone:

IC LED OUTDOOR PERFORMANCE STEP LIGHT LED IC115LEDHSG, 838LED

IP65



PRODUCT DESCRIPTION

The Performance LED step light is rated for use in outdoor or indoor wall mount applications including concrete pour, brick masonry or drywall • May be used as LED retrofit kit for existing Juno PL115 outdoor rated step lights installed in application • Recessed housing is IC rated and can be completely covered with insulation • Back housing ships separately from power module trim for rough-in purposes • Designed to provide 50,000 hours of life • 5 year warranty on LED components.

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- No harmful ultraviolet or infrared wavelengths
- No lead or mercury

EcoLEDgy Driven

PRODUCT SPECIFICATIONS

Housing Die cast aluminum housing painted white for durability • Gasket for water tight seal in wet locations provides IP65 rating with 838LED trim • Cover plate provided to protect housing interior during rough-in • (2) 1/2" conduit compression fittings provided for wiring • (1) conduit fitting plug included • Two brackets supplied for nailing unit to studs.

Power Module Trim LED light engine and driver mounted directly to trim assembly for ease of wiring and installation into housing after rough-in.
LED Light Engine: LED PCB utilizes 1 watt high lumen output LEDs binned to Energy Star standards • 3000K or 4100K color temperatures available.
LED Driver: Non-dimming driver accommodates input voltage of 120 volts AC at 50/60Hz • Power factor > 0.9 at 120V input • Driver is thermally protected and has integral overload and short circuit protection • Terminal connections provided as standard for easy removal.
Trim: Available in textured white, black, bronze or silver corrosion resistant paint on cast aluminum • Fastens to housing with two allen head screws • Matte textured diffuser supplied with all trims.

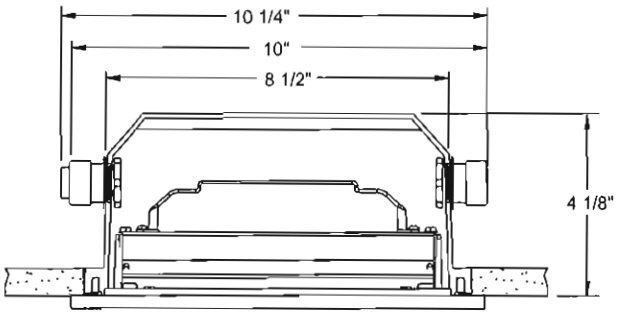
Life Rated for 50,000 hours at 70% lumen maintenance.

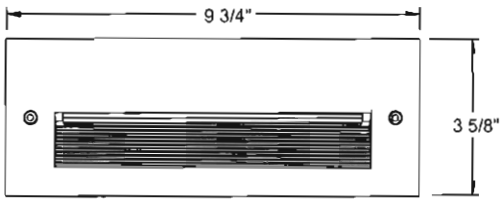
Labels UL listed for wet locations, concrete pour approved • UL and cUL Listed, RoHS compliant • UL Listed as LED conversion retrofit kit for Juno PL115 outdoor rated step light • IP65 rated.

Testing All reports are based on published industry procedures; field performance may differ from laboratory performance.

Product specifications subject to change without notice.

DIMENSIONS





9" X 3" WALL OPENING

ELECTRICAL DATA

Input Voltage	120V
Input Power	13.8W (+/-8%)
Input Current	0.12A
Frequency	50/60Hz
THD	≤ 10%
Minimum starting temp	-20°C (-4°F)

ORDERING INFORMATION: Housing and power module trim each ordered separately. For use as a retrofit, order power module trim only.

Example: **IC115LEDHSG** | Example: **838LED-13-41K-BL**

Back Housing	Power Module Trim	Wattage	Color Temperature	Finish
IC115LEDHSG	838LED	13 — 13 Watts	3K — 3000K 41K — 4100K	BL — Black Textured BZ — Bronze Textured SR — Silver Textured WH — White Textured

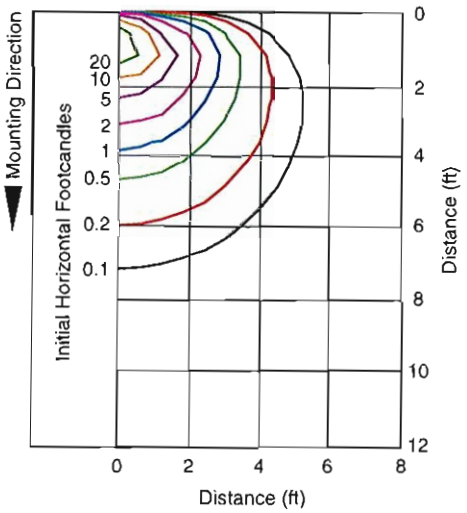
CITY OF WORTHINGTON
AR 21-13
DRAWING NO.
DATE 4-3-13

JUNO LIGHTING GROUP by Schneider Electric

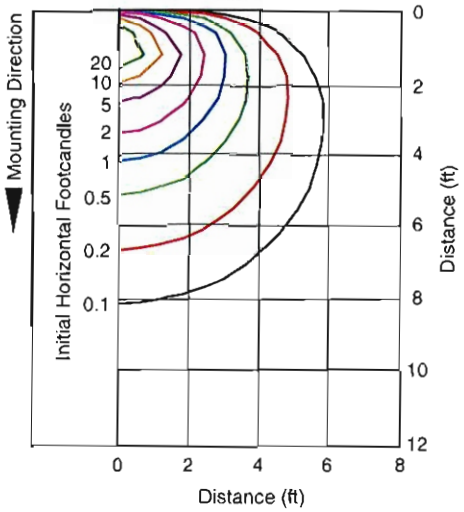
REV-3/13

IC LED OUTDOOR PERFORMANCE STEP LIGHT LED IC115LEDHSG, 838LED

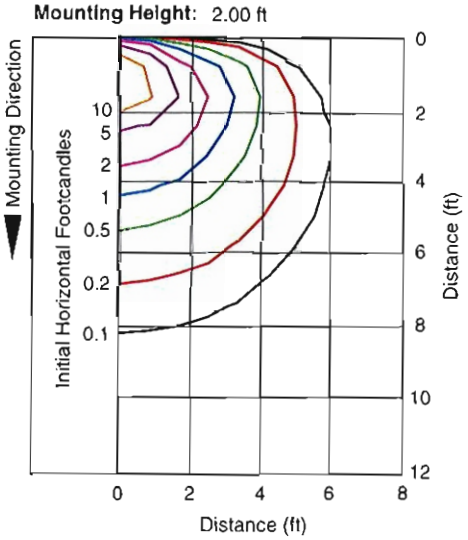
Catalog Number: IC115LEDHSG 838LED-13-41K-BL
Test Number: PT09102902
Total Lumens: 182 lms
Mounting Height: 1.50 ft



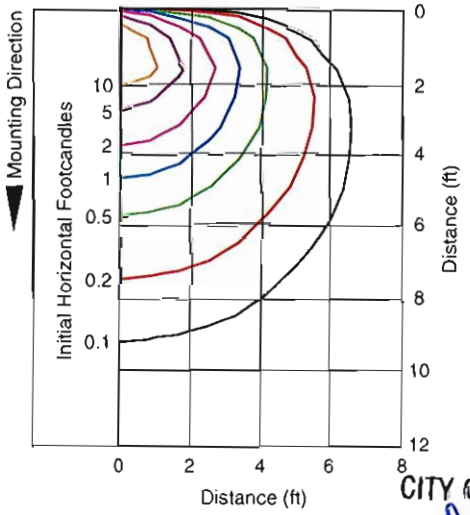
Catalog Number: IC115LEDHSG 838LED-13-41K-WH
Test Number: PT09102901
Total Lumens: 293 lms
Mounting Height: 1.50 ft



Catalog Number: IC115LEDHSG 838LED-13-41K-BL
Test Number: PT09102902
Total Lumens: 182 lms
Mounting Height: 2.00 ft



Catalog Number: IC115LEDHSG 838LED-13-41K-WH
Test Number: PT09102901
Total Lumens: 293 lms
Mounting Height: 2.00 ft



Multiplier: 3K - 0.95

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Juno Lighting Group by Schneider Electric
1300 S Wolf Road • Des Plaines, IL 60018 • Phone (847) 827-9880 • Fax (847) 827-2925
220 Chrysler Drive • Brampton, Ontario • Canada L6S 6B6 • Phone (905) 792-7335 • Fax (905) 792-0064
Visit us at www.junolightinggroup.com
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SMART VENT® - Model: 1540-510

Dual Function SMART VENT®

Superior Flood Protection and Natural Air Ventilation

ICC-ES Evaluated and FEMA Accepted Foundation Flood Vents

- Potential savings on homeowner's NFIP premiums
- Preserves aesthetic beauty of a home by requiring 2/3 less vents
- Each vent certified to protect 200 sq. ft. of your home
- Code Compliant, FEMA accepted, ICC-ES Evaluated
- All Stainless Steel construction meets or exceeds flood and corrosion resistance code requirements
- Patented automatic floats release bi-directional flood door
- Temperature controlled louvers automatically open in warm weather and close in cold weather

One 16" x 8" vent is certified to cover 200 square feet of enclosed area for flood protection and 51 square inches for ventilation

SMART VENT® models are certified to provide flood protection and ventilation. This model is used for a home with a crawl space or any enclosed area that desires natural air ventilation and flood protection. All stainless steel construction resists weather and pest.

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SMART VENT

www.smartvent.com • 877-441-8368

THOMAS WORTHINGTON HIGH SCHOOL

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FEBRUARY 18, 2013

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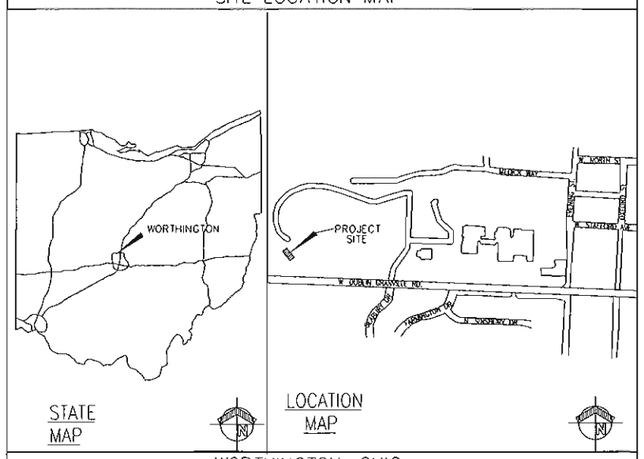
KRAMER ENGINEERS
394 OAK STREET
COLUMBUS, OHIO 43215
614.233.6911

BLAKE RAFELD & ASSOCIATES
3504 COLCHESTER ROAD
COLUMBUS, OHIO 43221
614-451-8514

SITE LOCATION MAP



WORTHINGTON, OHIO

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VOLUME A

COVER SHEET

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A0-01 CODE PLAN
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A2-01 ROOF PLAN & DETAILS
A3-01 BUILDING ELEVATIONS
A3-02 BUILDING ELEVATIONS
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E3 POWER PLAN

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f: 614.205.6805

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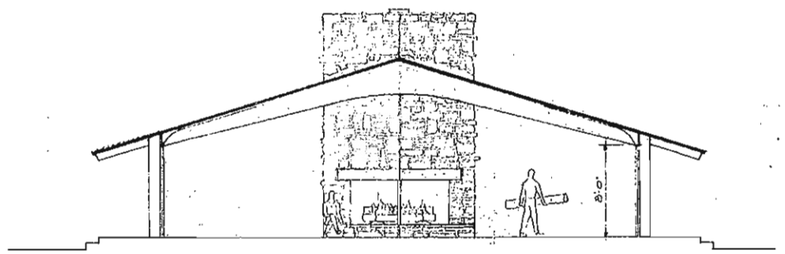

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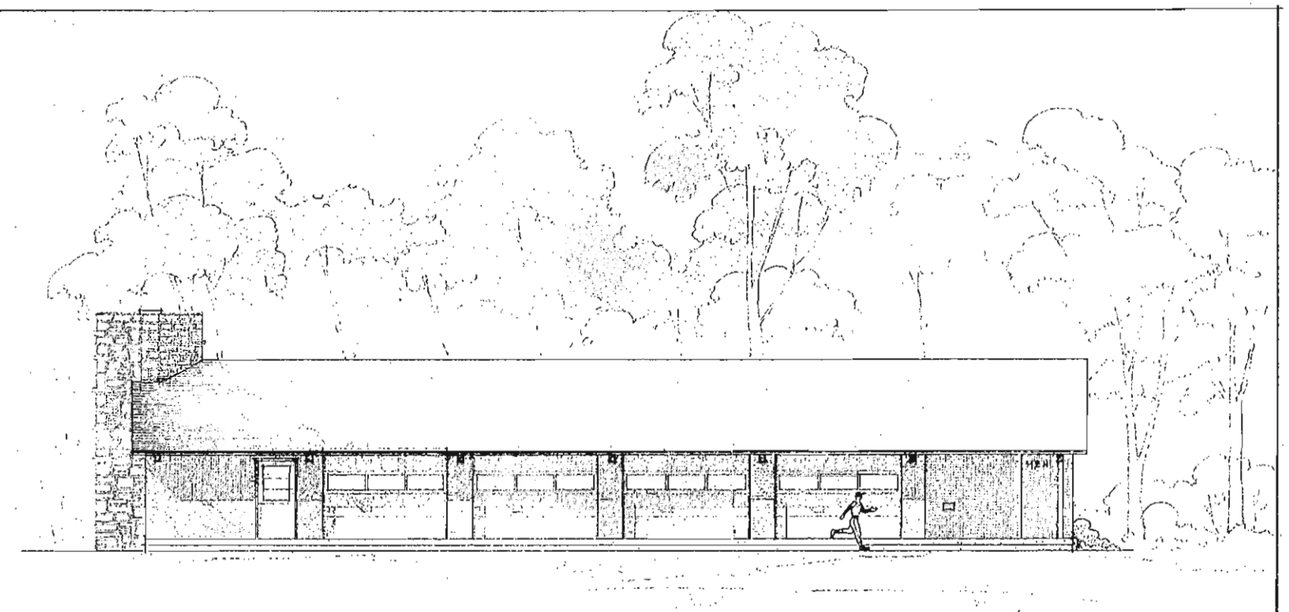

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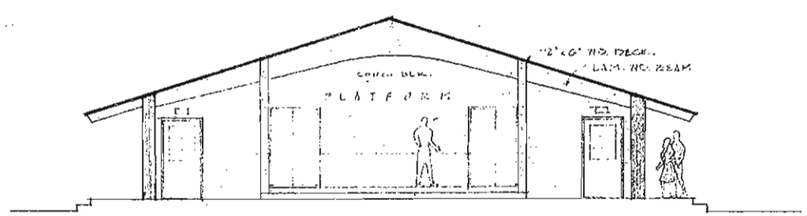

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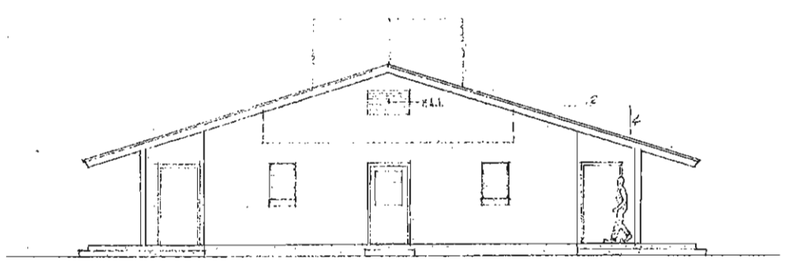

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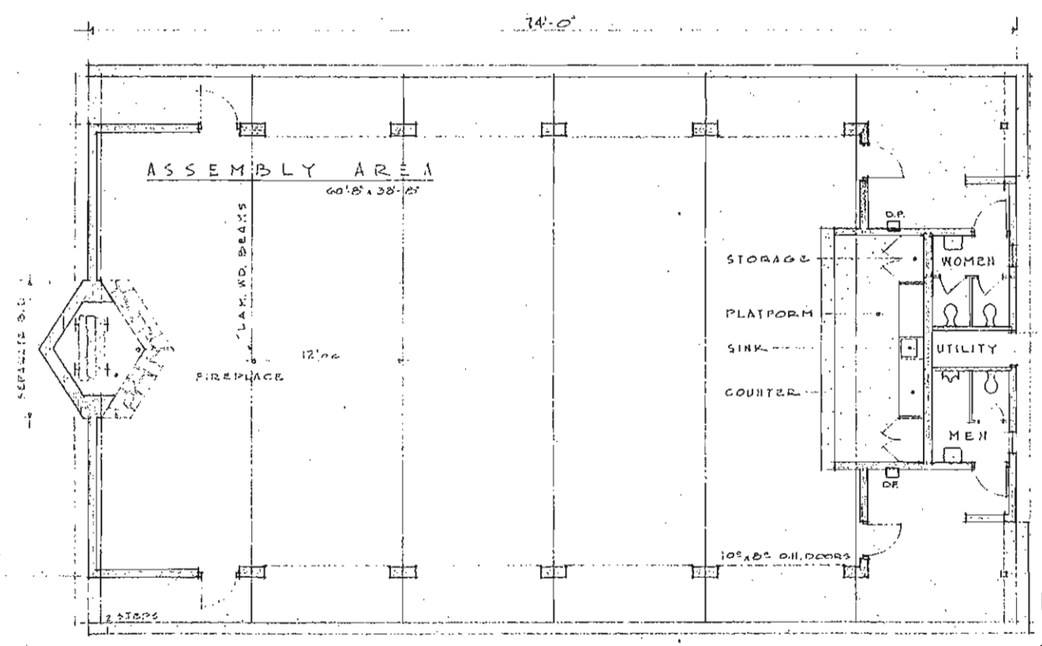

F L O O R P L A N

P R E L I M I N A R Y O F P R O P O S E D S H E L T E R H O U S E
W O R T H I N G T O N B O A R D O F E D U C A T I O N
P. S N O U F F E R - L. L A W R E N C E A R C H I T E C T S

27 AUG 1962

PAUL SNOUFFER
ARCHITECT
WORTHINGTON, OHIO

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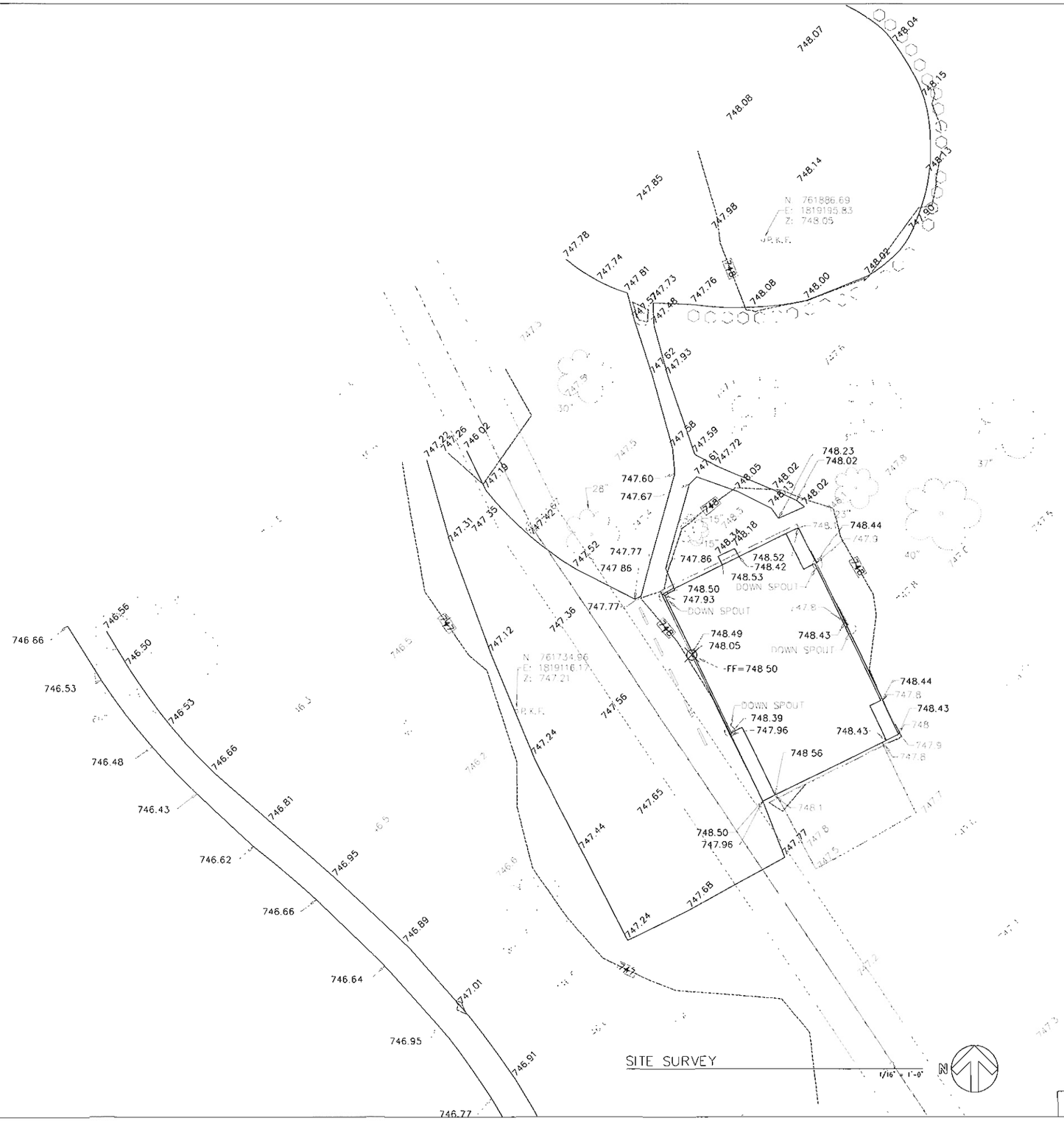

SITE SURVEY

1/16" = 1'-0"

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F: 614.205.8806

SITE SURVEY

DRAWN BY: SMT
CHECKED BY: PSM
COMM. NO.: ----
DATE: FEBRUARY 18, 2013

REVISIONS NO. DATE

S-1

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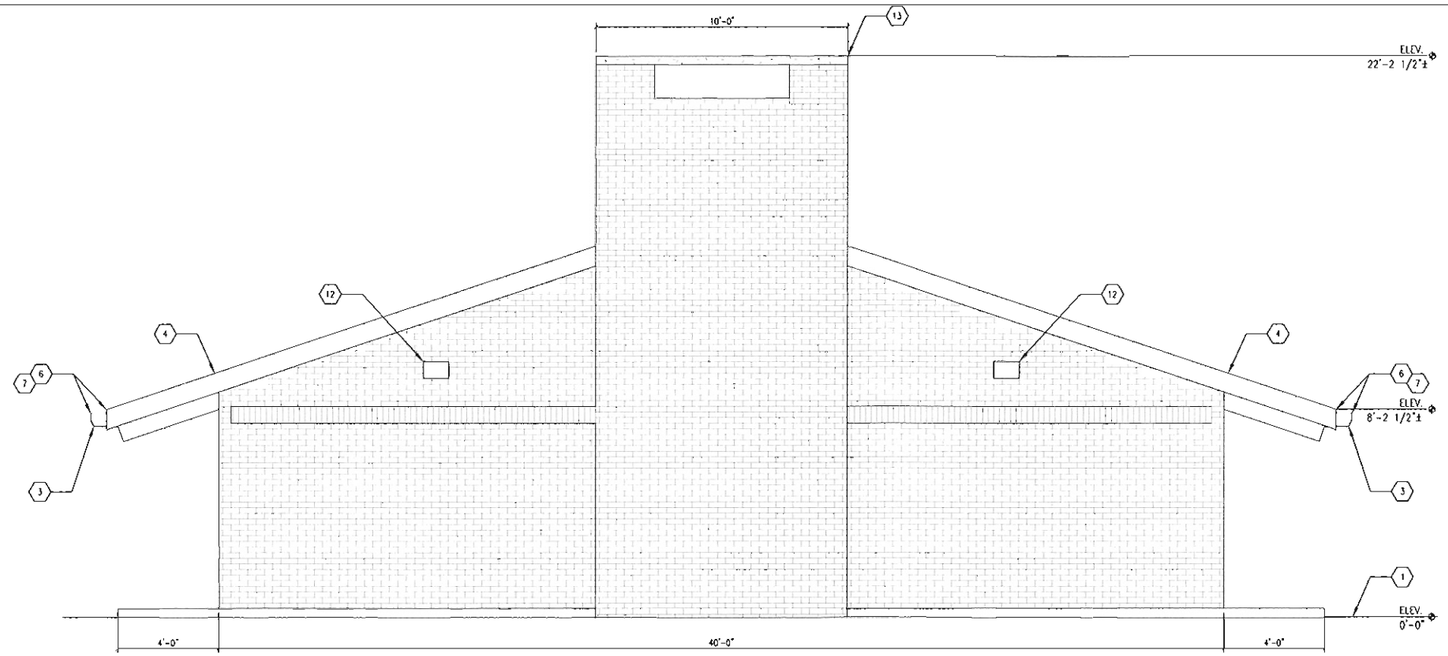
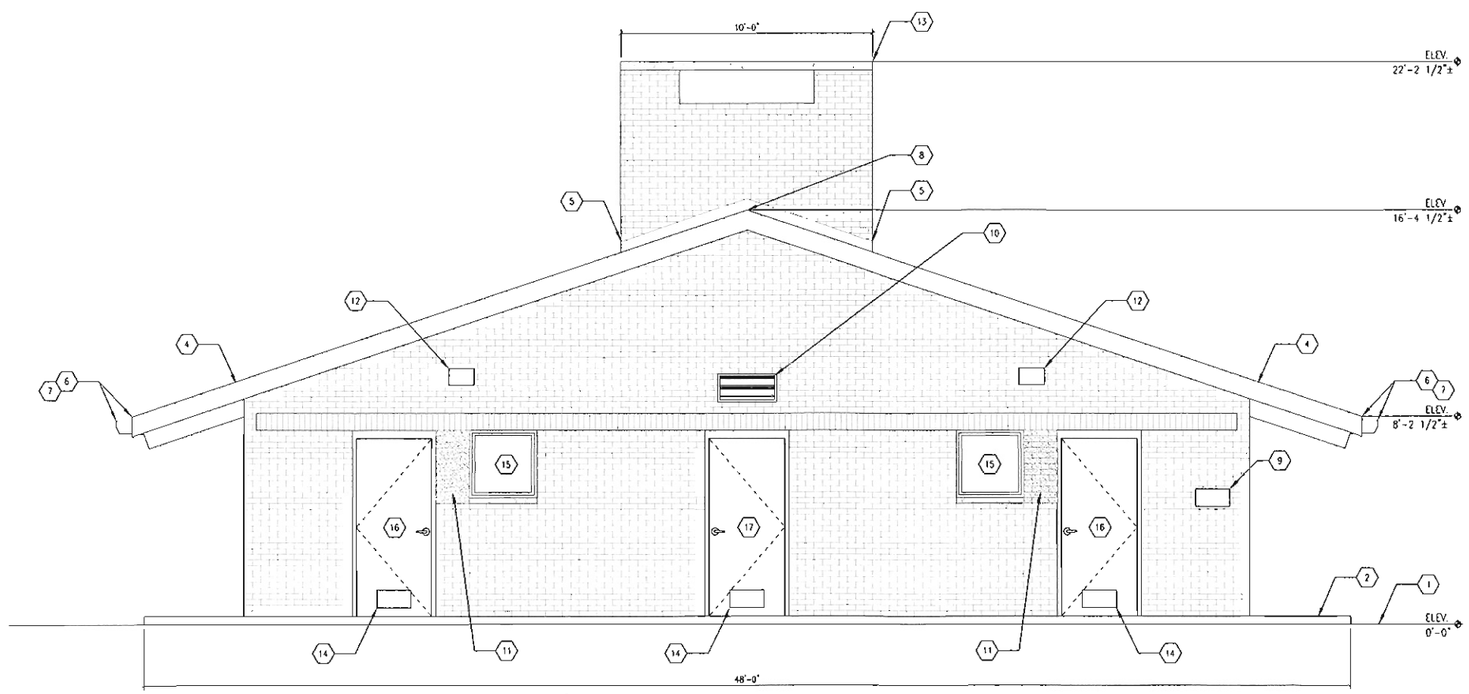


A SOUTH ELEVATION
3/8" = 1'-0"



B NORTH ELEVATION
3/8" = 1'-0"

ELEVATION GENERAL NOTES

A. REPOINT ALL EXISTING EXPOSED FACE BRICK TO REMAIN. RESEAL EXISTING CONCRETE COPING, TYPICAL.

B. POWER WASH ALL EXPOSED EXTERIOR MASONRY WALLS, TYPICAL.

C. REMOVE ALL MISCELLANEOUS METAL FASTENERS AND BRACKETS FROM BUILDING EXTERIOR. PATCH MASONRY WALLS AS NECESSARY, TYPICAL.

ELEVATION KEYNOTES

+ ALL KEYNOTES MAY NOT BE USED ON THIS DRAWING

1. APPROXIMATE FINISH GRADE - REFER TO SITE DRAWINGS.
2. NEW SIDEWALK - SEE SITE DRAWINGS.
3. OPEN END DOWNSPOUT TO RUN OFF INTO RAIN GARDEN LANDSCAPE ELEMENT.
4. ROOF SYSTEM - REFER TO ROOF PLAN AND DETAILS.
5. FLASHING - REFER TO ROOF PLAN AND DETAILS.
6. FASCIA - REFER TO ROOF PLAN AND DETAILS.
7. GUTTER - REFER TO ROOF PLAN AND DETAILS
8. RIDGE VENT
9. BUILDING IDENTIFICATION - REFER TO PROJECT MANUAL.
10. LOUVER - REFER TO PROJECT MANUAL, MECHANICAL DRAWINGS AND DETAILS.
11. NEW FACE BRICK INFILL TO MATCH EXISTING.
12. LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
13. NEW CONCRETE CHIMNEY CAP TO REPLACE EXISTING.
14. FLOOD VENTS. SEE PROJECT MANUAL.
15. NEW WINDOW PLACED IN NEW OPENING. CUT AND REWORK EXIST. WALL AS REQ'D
16. NEW DOOR PLACED IN NEW OPENING. CUT AND REWORK EXIST. WALL AS REQ'D
17. NEW REPLACEMENT DOOR IN EXISTING LOCATION.
18. NEW REPLACEMENT GARAGE DOOR IN EXISTING LOCATION

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F: 614-206-8806

BUILDING ELEVATIONS

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CHECKED BY: PSM
COMM NO.: ——
DATE: FEBRUARY 18, 2013

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A3-01

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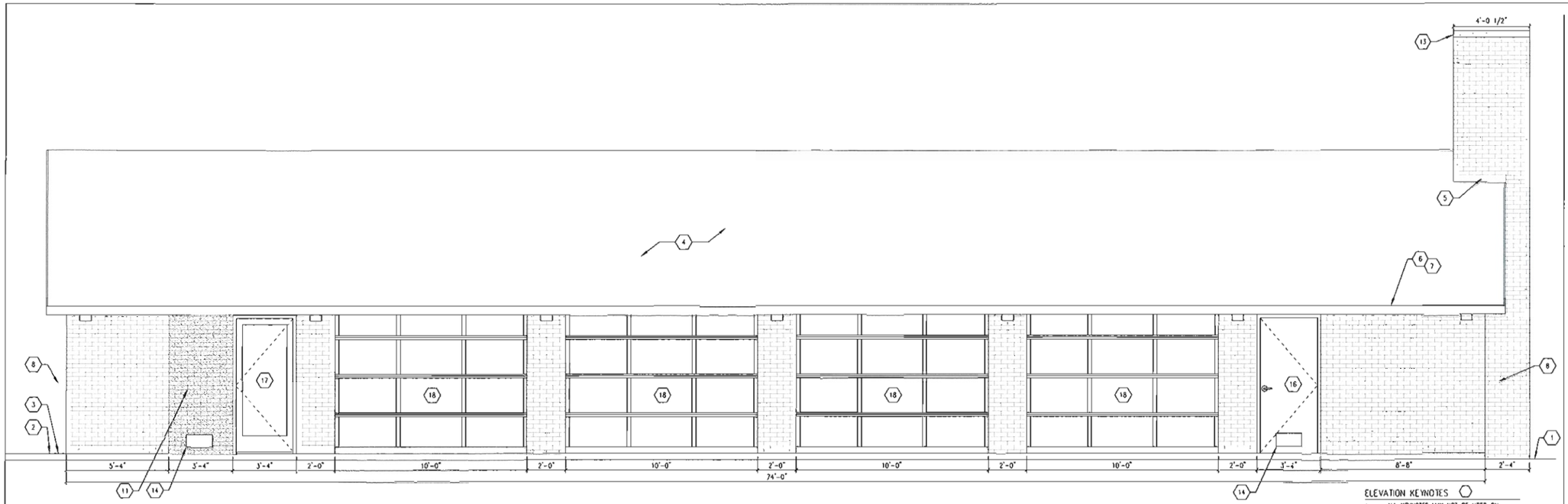
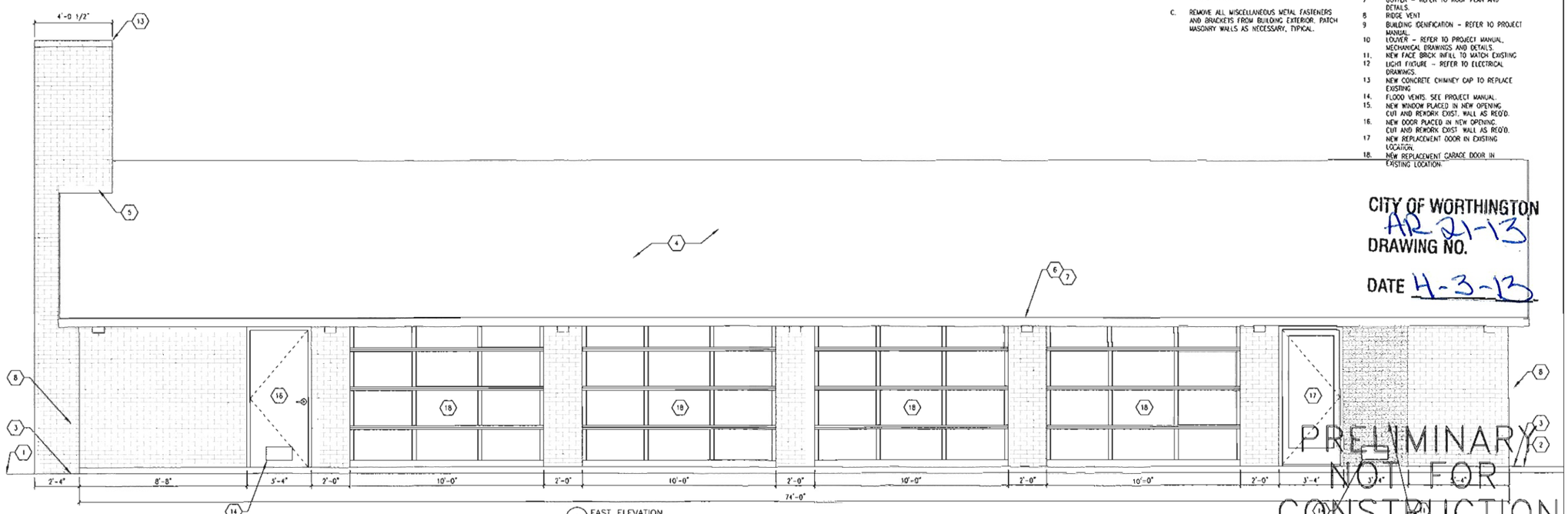


A WEST ELEVATION
3/8" = 1'-0"



A EAST ELEVATION
3/8" = 1'-0"

ELEVATION GENERAL NOTES

A. REPOINT ALL EXISTING EXPOSED FACE BRICK TO REMAIN. RESEAL EXISTING CONCRETE COPING, TYPICAL.

B. POWER WASH ALL EXPOSED EXTERIOR MASONRY WALLS, TYPICAL.

C. REMOVE ALL MISCELLANEOUS METAL FASTENERS AND BRACKETS FROM BUILDING EXTERIOR. PATCH MASONRY WALLS AS NECESSARY, TYPICAL.

ELEVATION KEYNOTES

* ALL KEYNOTES MAY NOT BE USED ON THIS DRAWING

1 APPROXIMATE FINISH GRADE - REFER TO SITE DRAWINGS.
2 NEW SIDEWALK - SEE SITE DRAWINGS
3 OPEN END DOWNSPOUT TO RUN OFF INTO RAIN GARDEN LANDSCAPE ELEMENT
4 ROOF SYSTEM - REFER TO ROOF PLAN AND DETAILS.
5 FLASHING - REFER TO ROOF PLAN AND DETAILS.
6 FASCIA - REFER TO ROOF PLAN AND DETAILS.
7 GUTTER - REFER TO ROOF PLAN AND DETAILS.
8 RIDGE VENT
9 BUILDING IDENIFICATION - REFER TO PROJECT MANUAL.
10 LOUVER - REFER TO PROJECT MANUAL, MECHANICAL DRAWINGS AND DETAILS.
11. NEW FACE BRICK INFILL TO MATCH EXISTING
12 LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS.
13 NEW CONCRETE CHIMNEY CAP TO REPLACE EXISTING
14. FLOOD VENTS. SEE PROJECT MANUAL.
15. NEW WINDOW PLACED IN NEW OPENING. CUT AND REWORK EXIST. WALL AS REQ'D.
16. NEW DOOR PLACED IN NEW OPENING. CUT AND REWORK EXIST WALL AS REQ'D.
17 NEW REPLACEMENT DOOR IN EXISTING LOCATION.
18. NEW REPLACEMENT GARAGE DOOR IN EXISTING LOCATION.

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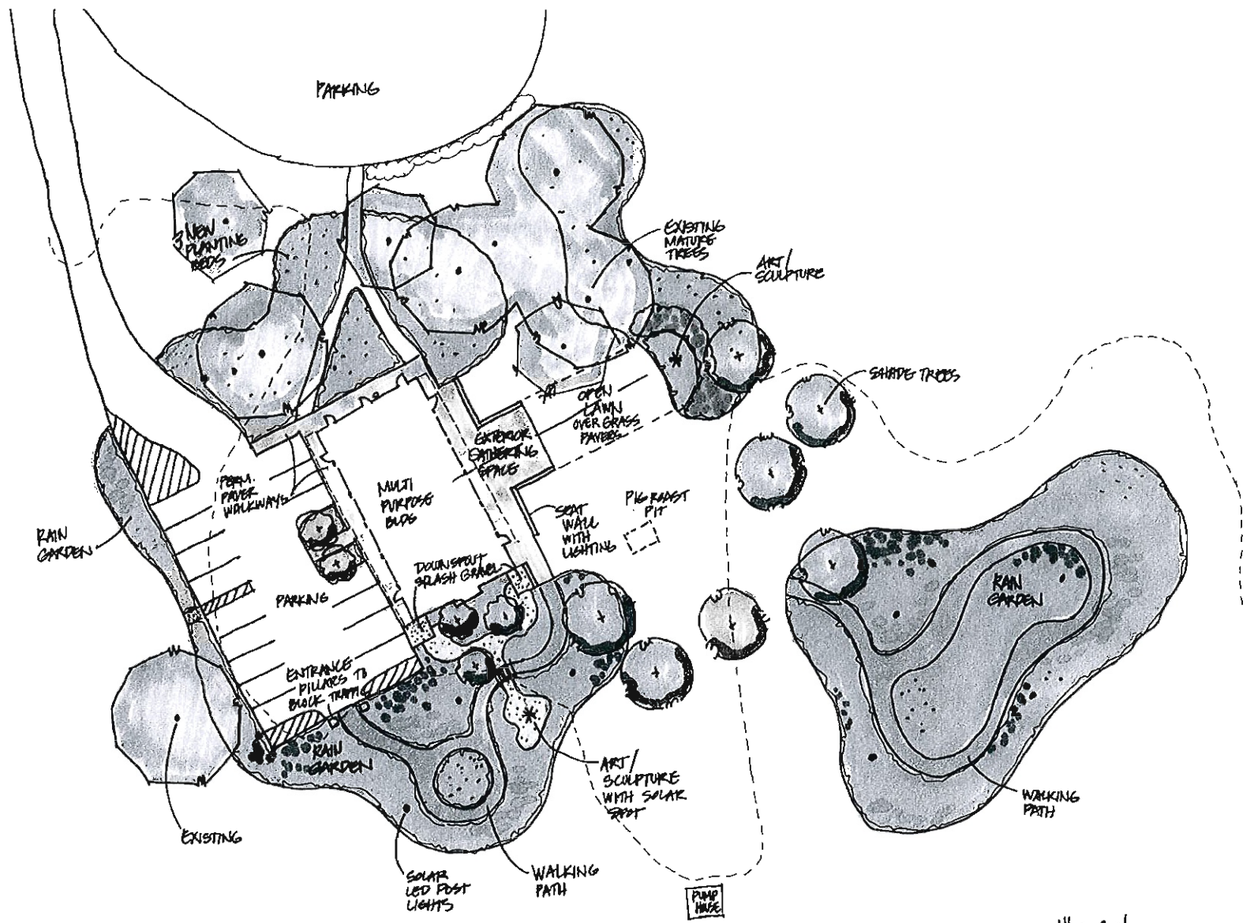

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LANDSCAPE PLAN

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L-1

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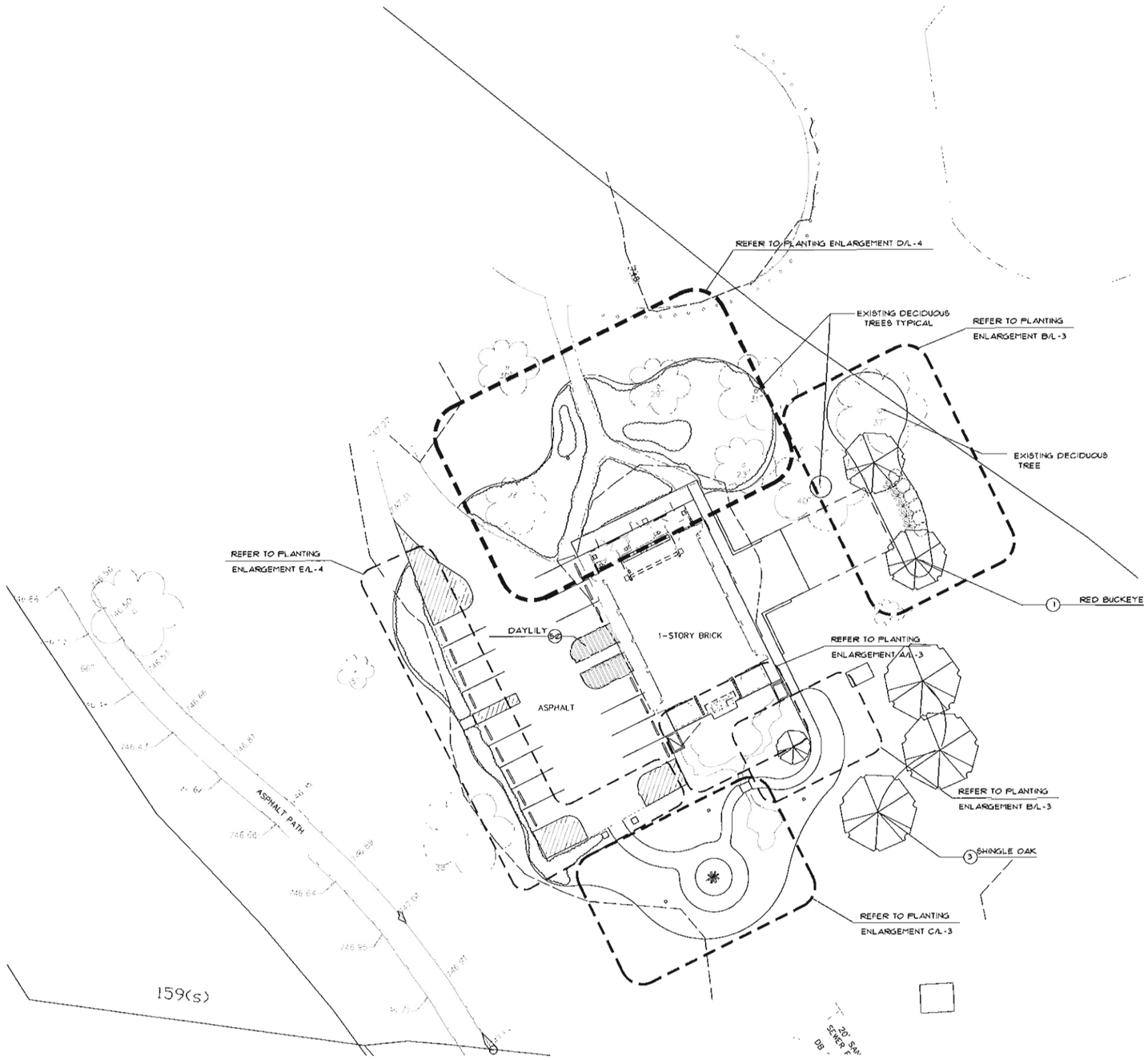
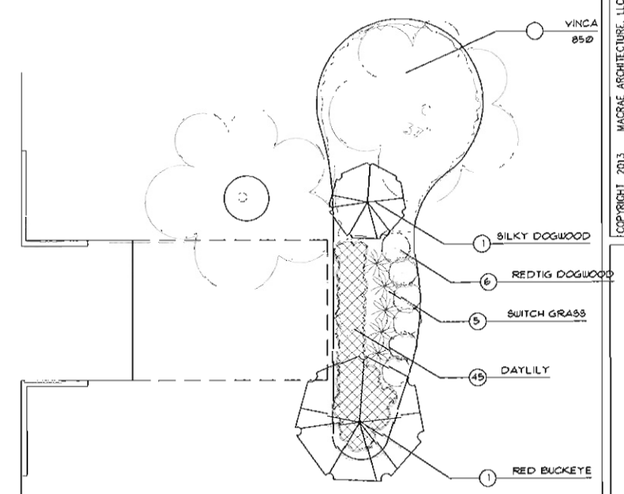
DATE 4-3-13



A LANDSCAPE PLAN
SCALE: 1"=1'-20'



B LANDSCAPE PLAN ENLARGEMENT
SCALE: 1/8" = 1'-0"

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STATE OF OHIO
BLAKE E. RAFELD
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REGISTERED
LANDSCAPE ARCHITECT

BLAKE RAFELD
& ASSOCIATES
LANDSCAPE ARCHITECTS
1904 Crutcher Rd. Road Columbus, Ohio 43221 614-451-8914

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DATE 4-3-13

LANDSCAPE PLAN

DRAWN BY: ASD
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COMM. NO.: 1301
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REVISION'S NO. DATE

L-4

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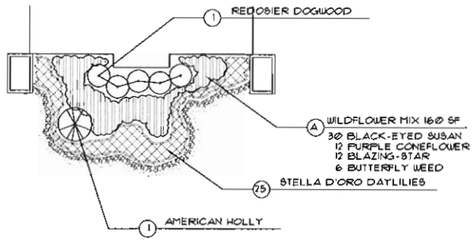
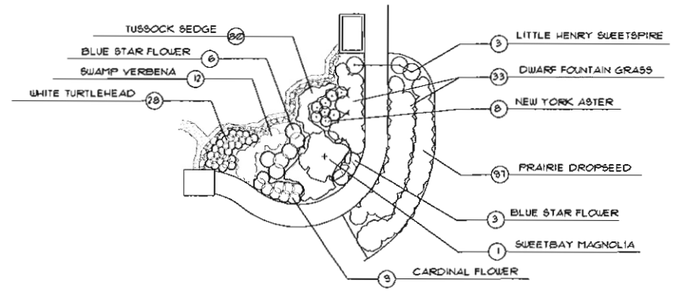
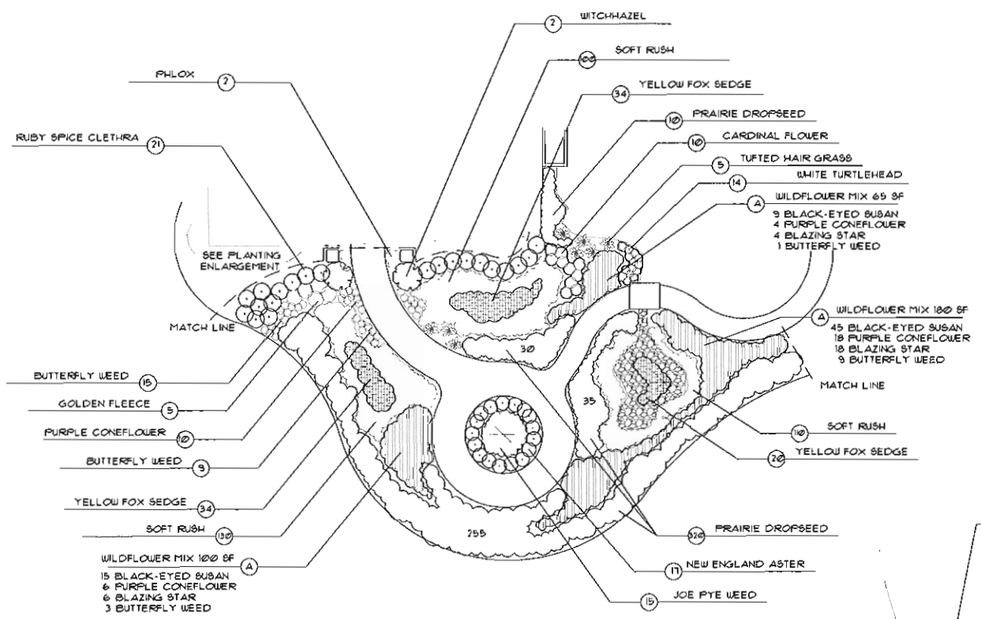


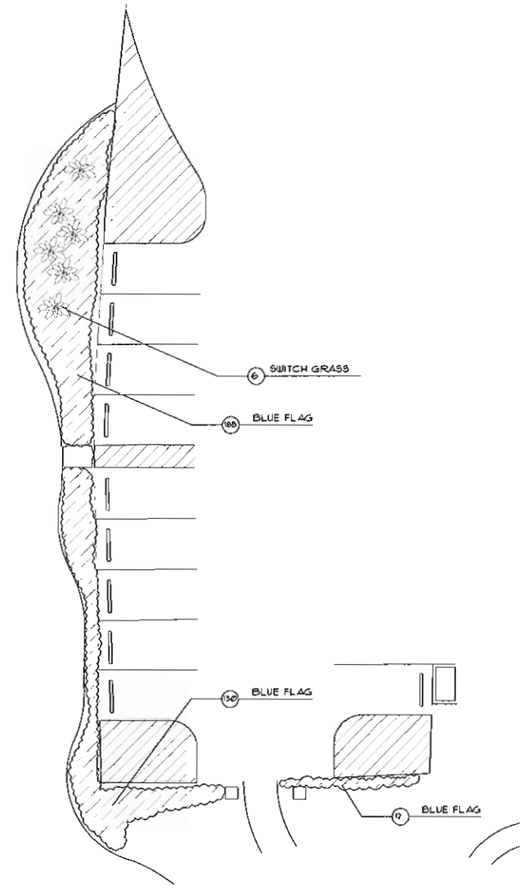
A BIRD GARDEN PLANTING
SCALE: 1/8" = 1'-0"



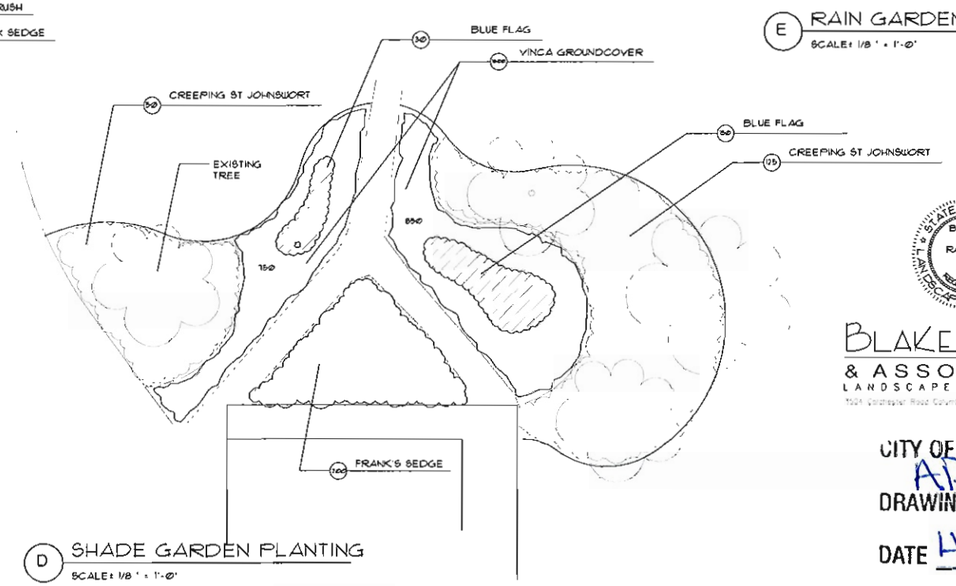
B BUTTERFLY GARDEN PLANTING
SCALE: 1/8" = 1'-0"



C RAIN GARDEN PLANTING
SCALE: 1/8" = 1'-0"



E RAIN GARDEN PLANTING
SCALE: 1/8" = 1'-0"



D SHADE GARDEN PLANTING
SCALE: 1/8" = 1'-0"

STATE OF OHIO
BLAKE E. RAFELD
579
REGISTERED
LANDSCAPE ARCHITECT

BLAKE RAFELD
& ASSOCIATES
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LANDSCAPE PLAN ENLARGEMENT

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WORTHINGTON CITY SCHOOLS
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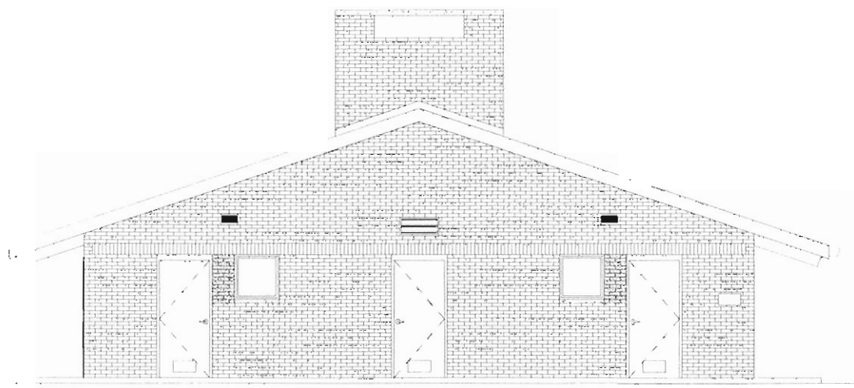
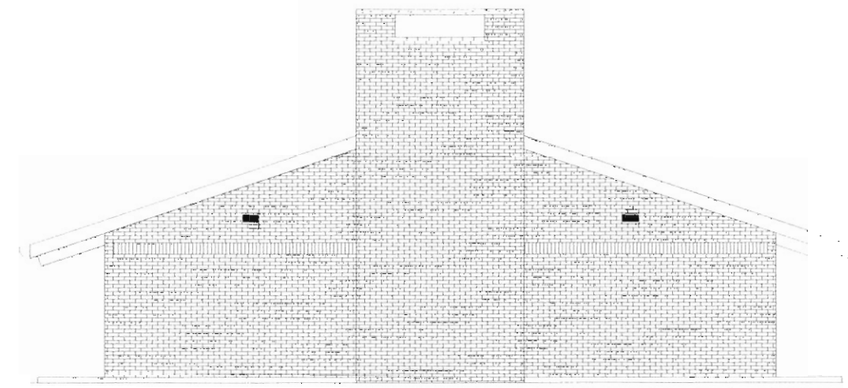
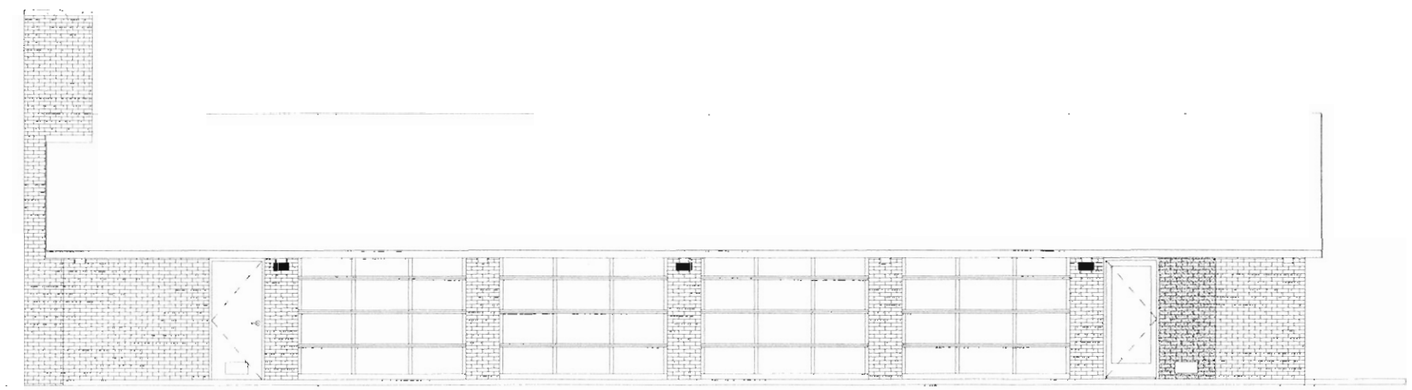


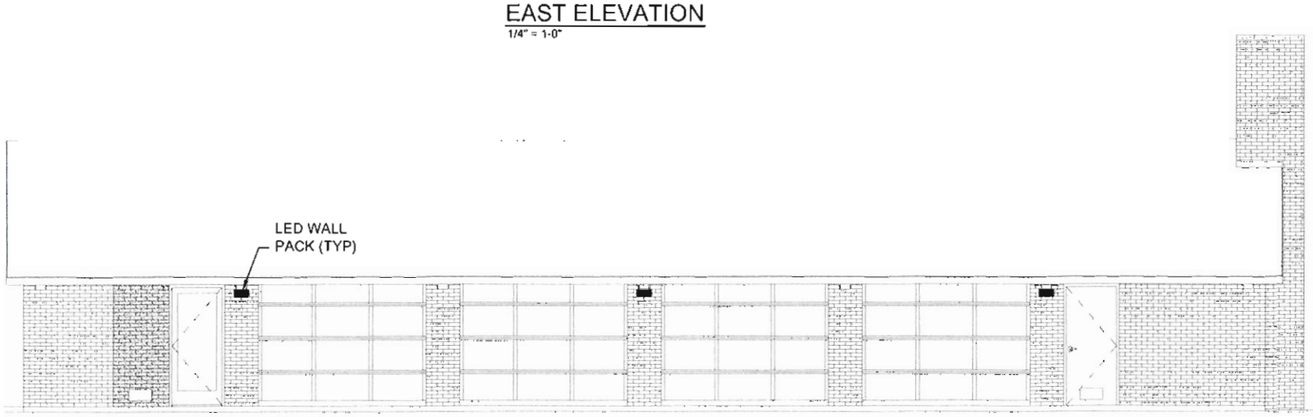
NORTH ELEVATION
1/4" = 1-0"



SOUTH ELEVATION
1/4" = 1-0"



EAST ELEVATION
1/4" = 1-0"



WEST ELEVATION
1/4" = 1-0"

CITY OF WORTHINGTON
AR 21-13
DRAWING NO.

DATE 4-3-13

PRELIMINARY
NOT FOR
CONSTRUCTION

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WORTHINGTON CITY SCHOOLS
OUTDOOR ED. CENTER
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MARCHing with a different perspective
74 Orchard Drive
Worthington, Ohio 43085
P: 614.205.8665
F: 614.205.8666

ELEVATIONS

DRAWN BY: xxx
CHECKED BY: xxx
COMM. NO.:
DATE: FEBRUARY 18, 2013

REVISIONS NO. DATE

E1

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