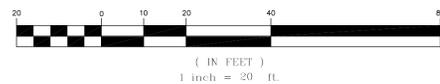


# EXTERIOR LIGHTING PLAN

GRAPHIC SCALE



### UTILITY NOTES

- CONTRACTOR TO COORDINATE THE INSTALLATION OF UTILITIES WITH THE GOVERNING AGENCY. ALL WORK IS TO BE DONE IN ACCORDANCE WITH STATE AND LOCAL STANDARDS.
- THE GAS MAIN SERVING THIS BUILDING WILL BE FROM LAFAYETTE ROAD. SERVICE LINE WILL BE IN 4" STEEL CONDUIT WHICH IS VENTED TO THE OUTSIDE.
- THE BUILDING WILL BE SERVICED BY AN INDIVIDUAL SANITARY LATERAL. ALL LATERALS WILL BE SDR 35 PVC AND WILL CONNECT TO THE EXISTING LATERAL WHICH 78 FEET SOUTH OF MONICA DRIVE. CLEANOUTS WILL BE INSTALLED AS NOTED ON THE PLAN AND 5 FEET FROM BUILDING. ALL CLEANOUT SHOULD BE PLACED IN LANDSCAPED AREAS. CLEANOUT CAN BE PVC BUT SHALL BE ENCASED IN CONCRETE 12"x12"x12".
- ELECTRICAL SERVICE WILL COME FROM THE EXISTING UNDERGROUND POWER LOCATED ON THE NORTHEAST SIDE OF LAFAYETTE ROAD. THE METER WILL BE PLACES ALONG THE SOUTH SIDE OF BUILDING. TRANSFORMER SHALL BE SET IN DRIVE ISLAND FOR CANOPY.
- THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN OR AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY THE UTILITY CONTRACTOR AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
- SERVICE LINES FOR WATER SHALL BE A 2" POLYETHYLENE PIPE AND CONNECT TO A METER PIT.
- ALL AREAS WHERE THE EXISTING PAVEMENT OR PAVEMENTS ARE DAMAGED OR CUT DURING CONSTRUCTION FROM UTILITY INSTALLATION BY CONTRACTOR, SUBCONTRACTORS, OR SUPPLIERS THE AREAS SHALL BE RESURFACED OR RECONSTRUCTED AT LEAST TO THEIR ORIGINAL CONDITION AFTER THE CONSTRUCTION WORK IS COMPLETED.
- PHONE AND CABLE SERVICE SHALL BE RUN TO THE BUILDING AND CONNECT AT THE MECHANICAL ROOM. CONSULT WITH THE CORRESPONDING COMPANY. INSTALL A 6" PVC CONDUIT UNDER THE PARKING LOT TO SERVICE THESE UTILITIES.

### CONSTRUCTION NOTES

- Manholes or clean-out castings may need to be elevated after final grading to insure drainage away from structures.
- Pavement or concrete, including driveways and sidewalks, must not be constructed on or within one (1) foot horizontal distance of sanitary sewer manhole casting.
- All rough grading (on-site and off-site) must be finished to within one (1) foot of final grade prior to the start of construction of the sanitary sewer infrastructure.
- The sanitary sewer lateral from the building shall terminate within the right-of-way of Lafayette Road and connect to the existing sanitary sewer lateral.
- At the inspector's discretion, a concrete cradle will be required for all lateral/utility crossings.
- Contractor must field verify invert elevations of existing manholes prior to construction. AFTER variation and construction, the contractor shall MAINTAIN RECORDS FOR THE ENGINEER AND THE CITY OF WESTFIELD DEPARTMENT OF PUBLIC WORKS.
- Sanitary sewer facilities, including mains and laterals, must maintain five (5) feet of cover from the top to pipe to final grade. If adequate cover cannot be maintained, then concrete capping must be installed when cover is four (4) to five (5) feet. Concrete encasement must be installed when cover is three (3) to four (4) feet. Under no circumstances will final cover be permitted to be less than three (3) feet.

### GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE SUBJECT SITE PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- THE UTILITY INFORMATION DEPICTED HEREON IS BASED UPON PLANS AND / OR THE FIELD LOCATIONS AS PROVIDED AND / OR MARKED BY REPRESENTATIVES OF THE RESPECTIVE UTILITY COMPANIES. THE CONTRACTOR, OWNER, OR CLIENT SHOULD CONTACT THE APPLICABLE UTILITY COMPANY REPRESENTATIVES FOR ADDITIONAL INFORMATION AND INDIANA UNDERGROUND PLANT PROTECTION (1-800-382-5544) PRIOR TO ANY EXCAVATION OR EXPLORATION OF DESIGN.
- ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
- CONTRACTOR TO PROVIDE PIPE BEDDING AND COMPACT TO 85% DENSITY OF STANDARD PROCTOR IN PAVED AREAS. PIPE BEDDING IN NON-PAVED AREAS SHALL BE COMPACTED TO 85% DENSITY OF STANDARD PROCTOR.
- THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITIES AND VERIFY ANY AND ALL FEES ASSOCIATED WITH THE INSTALLATION OF ALL UTILITIES.
- CONTRACTOR SHALL COORDINATE WITH WATER COMPANY AND ARCHITECTURAL PLANS FOR FIRE PROTECTION LINE AND DOMESTIC SERVICE LINE INSTALLATION.
- ALL WATER MAINS TO BE 54" MINIMUM BELOW GRADE.
- COORDINATE LOCATION OF ELECTRICAL AND TELEPHONE LINES WITH LOCAL UTILITIES AND ELECTRICAL DRAWINGS.
- COORDINATE LOCATION AND SIZE OF GAS SERVICE CONNECTION AND INSTALLATION OF SERVICE LINE AND METER WITH GAS COMPANY AND MECHANICAL DRAWINGS.
- FOLLOW ALL LOCAL AND STATE CODES IN REFERENCE TO DOMESTIC LINE INSTALLATION AND SANITARY LATERAL INSTALLATION.
- MAINTAIN A MINIMUM OF 10' CLEARANCE BETWEEN SANITARY LATERAL LINE AND DOMESTIC LINE SERVICE.
- CONTRACTORS SHALL CONSULT ARCHITECTURAL, PLUMBING AND ELECTRICAL PLANS FOR: INVERT ELEVATIONS AND EXACT LOCATION OF DOWN SPOUTS, WATER LINES, GAS LINES, TRANSFORMER'S PAD OR POLE, ETC.
- ALL GRASS AND/OR SHRUBBERY DISTURBED BY NEW CONSTRUCTION SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
- ALL EXISTING MANHOLE AND CATCH BASIN GRATES, WATER OR GAS VALVES SHALL BE ADJUSTED TO NEW FINISH GRADE ELEVATION.
- REPAIR, REPLACE OR MAINTAIN ANY/ALL EXISTING UTILITIES WITHIN LIMITS OF CONSTRUCTION.
- THIS SITE IS CURRENTLY UNDER CONSTRUCTION. EXISTING ELEVATIONS AND UTILITY LINES MAY OR MAY NOT BE IN THERE PROPER LOCATION. VERIFY ALL ELEVATIONS & COORDINATE WITH THE ENGINEER FOR ANY DISCREPANCIES.

**relume** Outdoor Lighting Systems  
PLUS SEVEN Wall Pack LED Light Fixtures  
5 YEAR WARRANTY

MODEL: RPSWP1

**FEATURES & SPECIFICATIONS**

**Intended Use**  
Relume's Forward Throw Wall Pack LED fixture is the energy saving solution for building facades, storage areas, entrances, corridors and other pedestrian areas.

**Construction**  
The housing is made as an aluminum die cast with fringed front frame and powder coated with high performance polyester resin for a rugged and maintenance-free finish. Proprietary aluminum composite heat management systems ensures excellent thermal management and low LED junction temperatures—the key to long LED life. The LED light engine is protected by a borosilicate glass lens.

**Electrical**  
Each power supply (driver) operates over voltages ranging from 120-277 or 377-480 volts (50/60 Hz). The driver is highly efficient with a power factor of greater than 0.98 and a total harmonic distortion (THD) of less than 20%. Fluctuations in line voltage have no effect on luminous output. Drivers have voltage surge protection to withstand high repetition noise transients. Unit meets radio frequency interference (RFI) emission limits set forth in FCC Title 47, Subpart B, Section 15.

**Quality Assurance**  
Relume designs and builds its products to meet or exceed industry quality standards and references including American National Standards Institute (ANSI), American Society for Testing and Materials International (ASTM), Council of the European Union (CE), Federal Trade Commission (FTC), Illuminating Engineering Society of North America (IESNA or IES), Institute of Electrical and Electronics Engineers (IEEE), National Electrical Manufacturers Association (NEMA), National Fire Protection Association (NFPA), Underwriters Laboratories (UL), Edison Testing Labs (ETL), Design Lights Consortium (DLC) and International Dark Sky (IDA). In production, each light fixture is certified by Relume's internal QA process. A quality control tracking label, including date of manufacture, is mounted on the inside of each fixture for full ISO 9001:2008 compliance. Relume guarantees unsurpassed quality by offering an industry leading 7 year limited warranty.

**Eco-Friendly**  
All Relume Light Engines and fixtures fully comply with the Restriction of Hazardous Substances Directives (RoHS) adopted in February 2003 by the European Union and are fully recyclable.

Ordering example: RPSWP1 CW UL PC DB BB

WARRANTY: Battery backup mounted external to fixture

OPTION ITEM	OPTION	CONTROLS	INSTALLATION OPTION	ACCESSORIES
CW = Cool White (5000K)	UL = 120/277V	PC = Photocell	DB = Dark Bronze	BB = Battery Back-up
NW = Neutral White (4000K)	ULH = 347/480V	X = None	C = Custom	SC = Sight Circuit
WW = Warm White (3000K)				X = None

ISO 9001:2008 CERTIFIED

For more information, visit [www.relume.com](http://www.relume.com) or call: (248) 969-3800  
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Relume Wall Pack LED Light Fixtures | FEATURES & SPECIFICATIONS



Width: 18 1/8" (460.4 mm)  
Height: 9" (228.6 mm)  
Depth: 13 3/8" (339.7 mm)  
Weight: 16 lbs. (7.3 kg)

**relume** Outdoor Lighting Systems  
PLUS SEVEN Wall Pack LED Light Fixtures  
5 YEAR WARRANTY

MODEL: RPSWP4

**FEATURES & SPECIFICATIONS**

**Intended Use**  
Relume's Forward Throw Wall Pack LED fixture is the energy saving solution for building facades, storage areas, entrances, corridors and other pedestrian areas.

**Construction**  
The housing is made as an aluminum die cast with fringed front frame and powder coated with high performance polyester resin for a rugged and maintenance-free finish. Patented Relume Silver Circuitry™ ensures excellent thermal management and low LED junction temperatures—the key to long LED life. The LED light engine is protected by a molded, borosilicate borosilicate glass lens.

**Electrical**  
Each power supply (driver) operates over voltages ranging from 120-277 or 377-480 volts (50/60 Hz). The driver is highly efficient with a power factor of greater than 0.98 and a total harmonic distortion (THD) of less than 20%. Fluctuations in line voltage have no effect on luminous output. Drivers have voltage surge protection to withstand high repetition noise transients. Unit meets radio frequency interference (RFI) emission limits set forth in FCC Title 47, Subpart B, Section 15.

**Quality Assurance**  
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**Eco-Friendly**  
All Relume Light Engines and fixtures fully comply with the Restriction of Hazardous Substances Directives (RoHS) adopted in February 2003 by the European Union and are fully recyclable.

Ordering example: RPSWP4 CW PC DB F BB

WARRANTY: Battery backup mounted external to fixture

COLOR TEMP	CONTROLS	INSTALLATION OPTION	ACCESSORIES
CW = Cool White (5000K)	PC = Photocell	DB = Dark Bronze	F = Full Cutoff
NW = Neutral White (4000K)	X = None	C = Custom	S = Side Cutoff
WW = Warm White (3000K)			W = Wire Guard
			P = Polycarbonate Guard
			X = None

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Relume Wall Pack LED Light Fixtures | FEATURES & SPECIFICATIONS



Width: 14 1/4" (361.9 mm)  
Height: 9" (228.6 mm)  
Depth: 7 1/4" (184.15 mm)  
Weight: 10 lbs. (4.5 kg)

**Accessories:**  
Full Cutoff, stamped steel in a textured bronze finish  
Wire Guard with stainless construction  
Clear Polycarbonate Guard



No.	Date	Revision
1.		
2.		
3.		
4.		

**BADGER ENGINEERING**

101 W. Main Street  
Lebanon, IN 46052  
(765) 485-0000

City of Westfield, Design By **ccb**

Washington Township, Drawn By **KSA**

Hamilton County, Checked By **XXX**

Indiana, Approved By **XXX**

Exterior Lighting Plan

Tim's Shooting Academy of Westfield

Date: April 29, 2013  
Job No.: 13-006  
Scale: 1"=20'  
Sheet No.: 7