



TOWNSHIP OF WEST ORANGE

25 LAKESIDE AVENUE, WEST ORANGE, N.J. 07052

DEPARTMENT OF PUBLIC WORKS

ROBERT D. PARISI

Mayor

LEONARD R. LEPORE

Director, Municipal Engineer

Tel: (973) 325-4160

Fax: (973) 669-9588

Email: Engineering@westorange.org

September 8, 2022

Michael P. Cohen, P.E., PMP
PS&S
3 Mountainview Road
Warren, NJ 07059

RE: REQUEST FOR PROPOSAL
GINNY DUENKEL MUNICIPAL POOL
UNDERWATER LIGHTING, MAIN POOL

Dear Mr. Cohen,

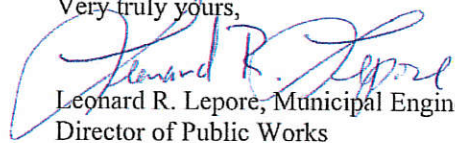
The Township of West Orange requests a Proposal from your firm to provide plans, specifications and bid documents for the installation of underwater lights at the main pool of the Ginny Duenkel Complex. Please see some schematic plans and manufacturer cut sheets for lights and transformers. The schematic plan shows fifteen lights and approximate locations along with anticipated locations of transformers and splice boxes. A Google Earth map is enclosed showing the main pool and the location of the electrical room. That room has two electrical panels which shall be upgraded as part of the work. Also enclosed is a lighting plan for the Municipal Pool in Florham Park.

I am requesting your proposal by Tuesday, September 13, 2022 with the anticipation of requesting the Township Council award a Professional Services Contract at their September 20, 2022 meeting. I want to bid this contract in October with an award in late October or November so this work can be coordinated with the contractor replastering the pool. Your recent work on plans for the replastering of the main pool and replacement of deck drains makes your firm an ideal one to perform this work.

If you want to inspect the site, please contact Supervisor Jim Latore at 973-703-7657.

Please contact me if you have any questions.

Very truly yours,


Leonard R. Lepore, Municipal Engineer
Director of Public Works

LRL/tb

Cc: Zayibeth Carballo

Bill Kehoe

Edwin Johnson

James Latore

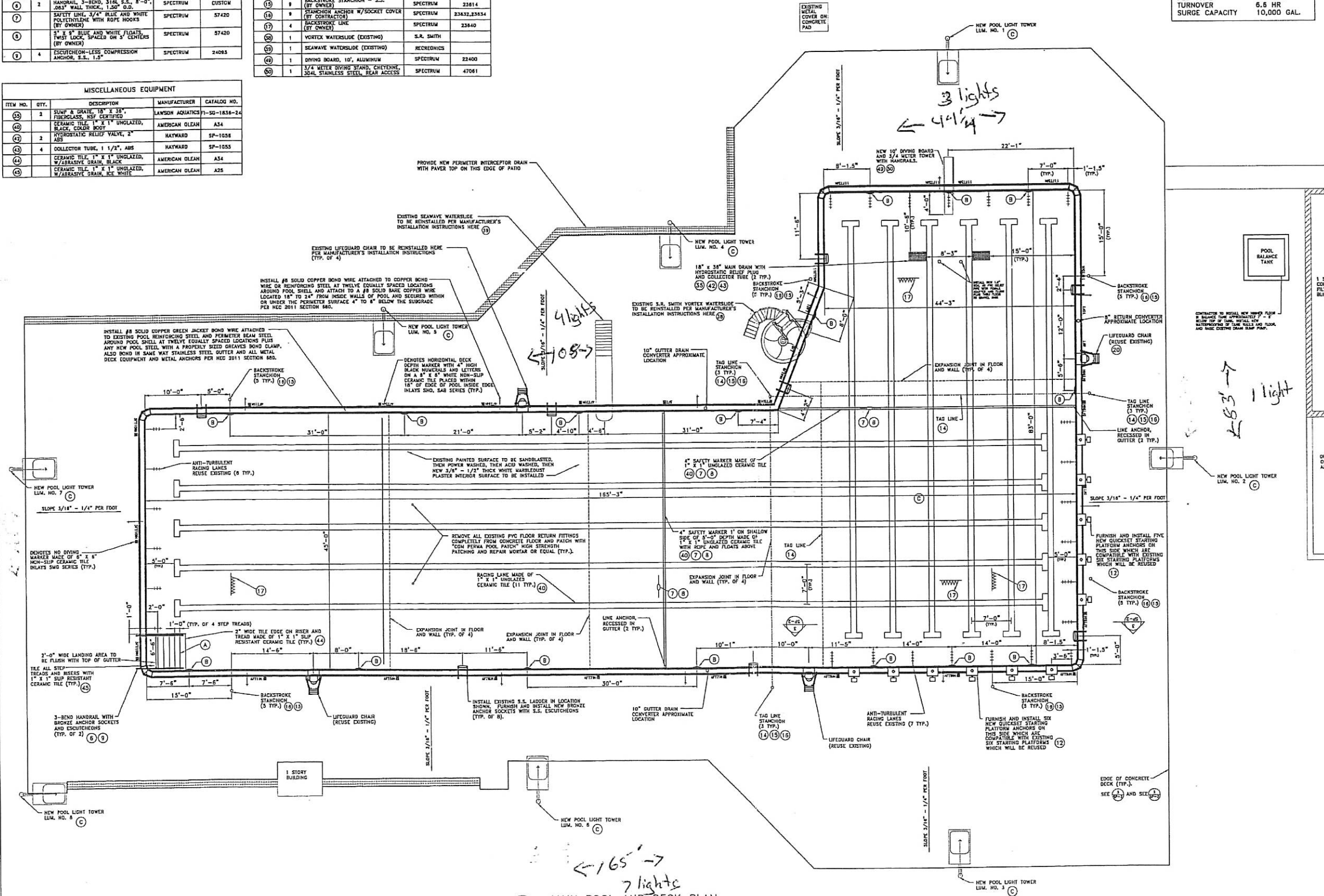
John Gross



DECK EQUIPMENT			
ITEM NO.	QTY.	DESCRIPTION	CATALOG NO.
2	1	ANCHOR SOCKET, CAST BRONZE	SPECTRUM 24010
3	1	ESCUTCHEON, 304 S.S. (BY OWNER)	SPECTRUM 24110
4	2	HANDRAIL, 3-BEND, 316L S.S., 8'-0", 1/2" WALL THICK, 1.50" O.D.	SPECTRUM CUSTOM
5	1	SAFETY LINE, 3/4" BLUE AND WHITE POLYETHYLENE WITH RDPS HOOKS (BY OWNER)	SPECTRUM 57420
6	1	5' x 8' BLUE AND WHITE FLUORIDE TRESTLE, SPACED ON 3' CENTERS (BY OWNER)	SPECTRUM 57420
7	4	ESCUTCHEON-LESS COMPRESSION ANCHOR, S.S., 1.5"	SPECTRUM 24083

MISCELLANEOUS EQUIPMENT			
ITEM NO.	QTY.	DESCRIPTION	CATALOG NO.
32	2	SUNBATH GRATE, 18" x 36", FIBERGLASS, NSF CERTIFIED	LAWSON AQUATICS P1-SG-1836-24
40	1	CERAMIC TILE, 1" x 1" UNGLAZED, BLACK, COGN BODY	AMERICAN OLEAN A34
42	2	HYDROSTATIC RELIEF VALVE, 2" ABS	KAYWARD SP-1058
43	4	COLLECTOR TUBE, 1 1/2", ABS	KAYWARD SP-1055
44	1	CERAMIC TILE, 1" x 1" UNGLAZED, W/LABRAVE DRAIN, BLACK	AMERICAN OLEAN A34
45	1	CERAMIC TILE, 1" x 1" UNGLAZED, W/LABRAVE DRAIN, ICE WHITE	AMERICAN OLEAN A35

RACING EQUIPMENT			
ITEM NO.	QTY.	DESCRIPTION	CATALOG NO.
13	5	STARTING PLATFORM (EXISTING), PROVIDE (11) NEW QUICKSET ANCHORS	PARADON CLASSIC
14	2	TAG LINE - COATED CABLE (BY OWNER)	NEPTUNE-BIDESON CUSTOM
15	8	BACKSTROKE STANCHION - S.S. (BY OWNER)	SPECTRUM 23614
16	9	STANCHION ANCHOR W/SOCKET COVER (BY CONTRACTOR)	SPECTRUM 23432, 23434
17	4	BACKSTROKE LINE (BY OWNER)	SPECTRUM 23840
50	1	VORTEX WATERSLIDE (EXISTING)	S.R. SMITH
51	1	SEAWAY WATERSLIDE (EXISTING)	RECREONICS
49	1	DIVING BOARD, 10', ALUMINUM	SPECTRUM 22400
52	1	3/4" METER DIVING STAND, CHREXNE, 304L STAINLESS STEEL, REAR ACCESS	SPECTRUM 47061



DESIGN DATA	
AREA	9,210 SQ. FT.
PERIMETER	488 FT.
VOLUME	375,000 GAL.
FLOWRATE	954 GPM
TURNOVER	6.6 HR
SURGE CAPACITY	10,000 GAL.

- KEY NOTES**
- PROVIDE (6) EQUAL STEP RISERS EACH APPROXIMATELY 8.25" HIGH TO TOP OF 2'-0" WIDE LANDING WHICH IS FLUSH WITH TOP OF S.S. GUTTER.
 - HAYWARD CRYSTALOGIC COMMERCIAL WHITE LED 12V UNDERWATER LIGHT, 500W EQUIVALENT BRIGHTNESS PART NUMBER LPWU511150 WITH WHITE TRIM RING AND SET IN A HAYWARD UCL CONCRETE NICHE PART NUMBER LPDU1000 SET WITH TOP OF LIGHT SET 21" BELOW TOP OF GUTTER (TYP. OF 18).
 - REFER TO DRAWING BY COOPER LIGHTING FOR FLORHAM PARK POOL PROJECT NO. 1402531.AGI FOR LIGHTING SCHEDULE AND DETAILS.

- GENERAL NOTES**
- CONCRETE DECK TO BE THICKENED AND REINFORCED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR DIVING STANDS, STARTING PLATFORMS, LIFE GUARD CHAIRS, LADDERS, HANDRAILS, SLIDE AND STANCHION ANCHORS. SUBMIT SHOP DRAWINGS FOR APPROVAL BY ENGINEER.
 - DIMENSIONS OF POOL ARE BASED ON FIELD MEASUREMENTS OF THE EXISTING POOL AND THE ACTUAL FINAL INSTALLATION MAY DEVIATE SOME FROM THE GIVEN DIMENSIONS DUE TO FIELD CONDITIONS. THE DEPTHS GIVEN SHOULD BE VERIFIED PRIOR TO INSTALLATION OF THE DEPTH MARKERS SHOWN AND ADJUSTED IF REQUIRED. NOTIFY ENGINEER OF ANY CHANGES.
 - OWNER TO PROVIDE EMERGENCY EQUIPMENT FOR SWIMMING POOLS PER N.J.A.C. 8:26-5.3.
 - OWNER TO POST BATHER RULES FOR SWIMMING POOLS PER N.J.A.C. 8:25-5.4.
 - OWNER TO POST DIVING RULES FOR SWIMMING POOLS PER N.J.A.C. 8:25-5.5.
 - OWNER TO REUSE (1) EXISTING AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES 2010 COMPLIANT PORTABLE HANDICAP LIFT CHAIR AND CONTRACTOR TO PROVIDE (1) ADDITIONAL LIFT CHAIR.

- A: STRUCTURAL NOTES**
- POOL DESIGNED IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE - NJ EDITION 2009.
 - CONCRETE DESIGNED IN ACCORDANCE WITH A.C.I. "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (A.C.I. 318).
 - COMPRESSIVE STRENGTH OF CONCRETE OF 4,000 PSI AT 28 DAYS.
 - ALL REINFORCING BARS SHALL BE DEFORMED AND CONFORM TO ASTM A615 GRADE 40. LAP BARS A MINIMUM OF 24". CLEARANCE BETWEEN EARTH AND STEEL TO BE A 2" MINIMUM.
 - ALL SHOTCRETE WORK IN ACCORDANCE WITH A.C.I. "GUIDE TO SHOTCRETE" (A.C.I. 506R).
- B: PIPING NOTES**
- ALL PIPING TO BE PVC SCHEDULE 40 PRESSURE PIPE UNDERGROUND AND INSIDE BALANCE TANK. INSIDE FILTER ROOM ALL PIPING TO BE PVC SCHEDULE 80 PRESSURE PIPE. ALL PIPING 2" OR SMALLER TO BE PVC SCHEDULE 80 PRESSURE PIPE BOTH UNDERGROUND AND INSIDE FILTER ROOM.
 - HYDROSTATICALLY TEST ALL PIPING AT A MINIMUM OF 25 PSI FOR A PERIOD OF 2 HOURS WITH JOINTS EXPOSED BEFORE COMPLETELY BACKFILLING PIPING.
- C: ELECTRICAL NOTES**
- POOL SHALL BE WIRED, GROUNDED AND BONDED IN STRICT ACCORDANCE WITH THE 2011 EDITION OF ARTICLE 680 OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE STATE AND LOCAL CODES.

REVISIONS

DLB ASSOCIATES
CONSULTING ENGINEERS, P.C.
VANDERBILT, N.J. 07712

Donald L. Beaty, P.E.
N.J. LIC. #27825
Date: _____

FLORHAM PARK MAIN POOL IMPROVEMENTS
FLORHAM PARK, NJ

MAIN POOL PLAN

DATE: 11/5/14	SHEET NO.
SCALE: AS NOTED	SP-1
DRAWN: GW	
CHECKED: DF	
FILE: FF-01	

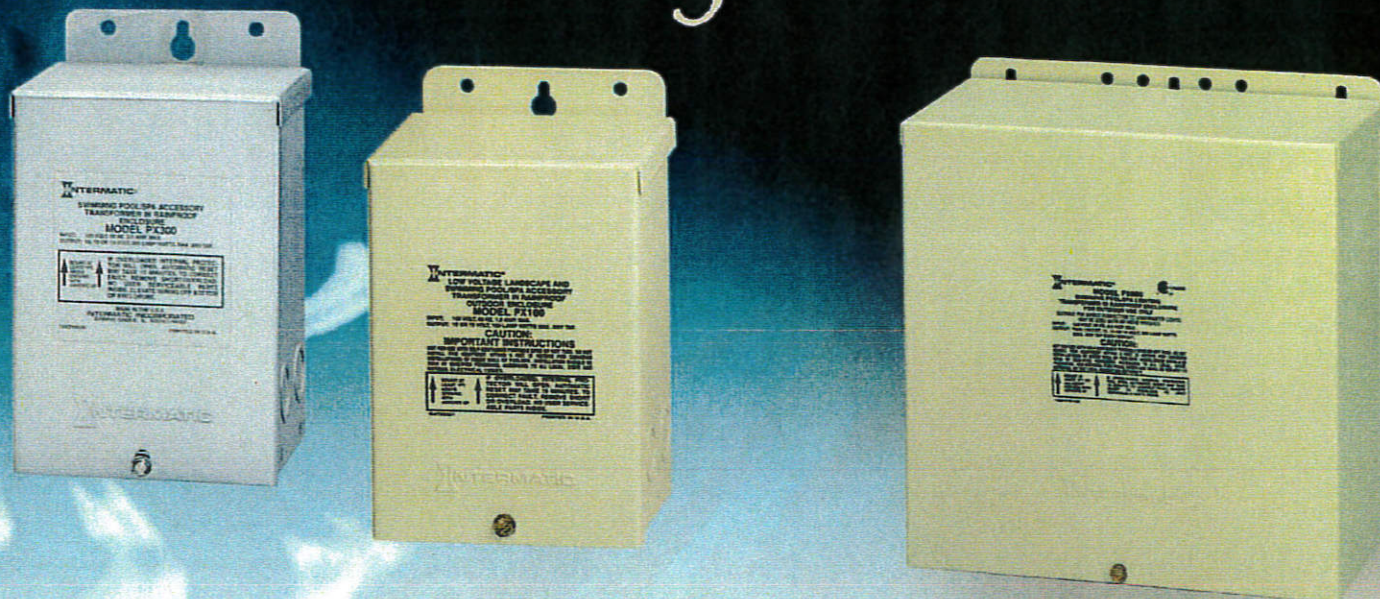
\$4,000.00 per light

73' LONG x 33' W

POOL AND SPA

INTERMATIC

Safety Transformers



PX Series Pool and Spa Transformers

These safety transformers are specifically designed to operate in harsh environments, such as high humidity, combined with heat, and chemicals typically found around pools and spas.

The two piece enclosure is made from stainless steel or galvanized steel and electrostatically coated with powder paint in order to weather the elements. With cover removed, the high and low voltage compartments are fully exposed and the knock-outs make wiring extremely convenient.

The transformer is made by the unique, two bobbin process and has a safety shield between the primary and secondary windings. In addition, the entire transformer is vacuum impregnated to resist moisture as well as for cooler, more efficient, and quieter operation. The output voltage of the secondary is selectable, depending on the input connections. All transformer models are safeguarded by an integral automatic-reset protector.

PX Series Applications

• Pool /Spas Lights • Outdoor Lighting • Fountain Lighting

Specifications – PX100(S) & PX300(S)

ENCLOSURES– 7-1/4" (19.4 cm) high x 5-1/4" (13.3 cm) wide x 4-1/2" (11.4 cm) deep. Stainless steel or steel with electrostatically applied light beige finish. Mounting brackets top and bottom.

KNOCKOUTS – Total of eight 1/2"-3/4" combination. (4) bottom, (2) right side, (1) left side, (1) back.

ELECTRICAL RATING– See table.

SHIPPING WEIGHT – See table.

AGENCY APPROVAL – C/US

Specifications – PX600

ENCLOSURES– 10" (25.4 cm) high x 10" (25.4 cm) wide x 5" (12.7 cm) deep. Stainless steel or steel with electrostatically applied light beige finish. Mounting brackets top and bottom.

KNOCKOUTS – Two combination 1/2"-3/4", and 4 combination 3/4"-1" knockouts on the bottom. Total of six combination 1/2"-3/4" knockouts, (2) right side, (1) left side, (2) back.

ELECTRICAL RATING– See table.

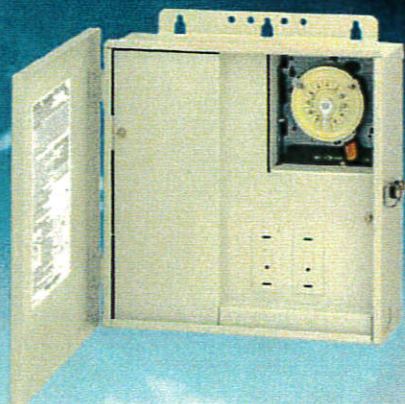
SHIPPING WEIGHT – See table.

AGENCY APPROVAL – C/US

MODEL NUMBER	DESCRIPTION	INPUT	OUTPUT	SHIPPING WEIGHT
PX100	100 Watt Beige Steel	120V, 1 Amp	12 or 13V	7 lbs
PX100S	100 Watt Stainless Steel	120V, 1 Amp	12 or 13V	7 lbs
PX300	300 Watt Beige Steel	120V, 3 Amp	12, 13 or 14V	13 lbs
PX300S	300 Watt Stainless Steel	120V, 3 Amp	12, 13 or 14V	13 lbs
PX600	600 Watt Beige Steel	120V, 6 Amp	12, 13 or 14V	25 lbs



Pool Panels with Transformers



T10000RT Series Pool/Spa Control Centers with Transformer

These Transformer Panels offer an all-in-one, easy to wire and extremely cost effective control center for any pool or spa installation. The enclosure includes the time switch, transformer and other components needed for the completion of an installation. In addition, they have provision for mounting a switching device or GFCI on the side as well as additional switching devices on the inside. Numerous combination knockouts and the rectangular side knockout will accommodate any wiring requirement.

Applications

• Pool /Spas Lights • Outdoor Lighting • Fountain Lighting

Specifications

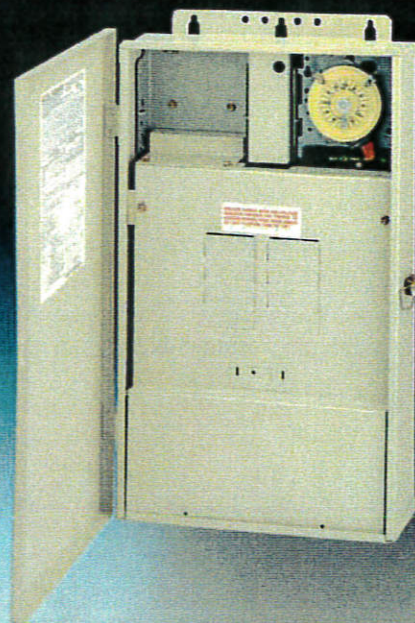
CASE— 12-3/4" (32.4 cm) high, 12-3/4" (32.4 cm) wide, 4-1/4" (10.8 cm) deep.

KNOCKOUTS — Main wiring compartment - Five combination 1/2"-3/4", two combination 3/4" - 1" knockouts on the bottom. One combination 1/2" - 3/4" and one combination 3/4" - 1" knockouts on the back. One 1 3/4" x 2 3/4" knockout on the right side for mounting a switching device or GFCI. Two combination décor/toggle switch knockouts on the deadfront. Pool Light wiring compartment - Two combination 1/2" - 3/4" knockouts on the side and two combination 3/4" - 1" knockouts on the bottom.

TRANSFORMER RATING — Input: 120V, 60 hz., Output: See table.

TIME SWITCH RATING — 40 amp. resistive each pole 120-480V.A.C., 40 amp. tungsten, inductive or 1000 VA pilot duty each pole 120-277V.A.C., 2 H.P. (24 FLA)-120V.A.C., 5 H.P. (28 FLA)-240V.A.C.

MODEL NUMBER	TRANSFORMER OUTPUT	TIME SWITCH MECHANISM	SHIPPING WEIGHT
T10004RT1	12V, 13V - 100 Watt	T104M	14 lbs.
T10004RT3	12V, 13V, 14V - 300 Watt	T104M	20 lbs.



T40000RT Series Pool/Spa Control Centers with Transformer

These Transformer Panels are similar to the T10000RT Series, except for their size and capacity. The T40000RT features a 8/16 circuit breaker base, an equipment grounding bar and provision for mounting a switching device or GFCI on the side as well as an additional switching device on the inside. The enclosure accepts any combination of P1000ME, T100M, RC2000M, and PF1000M Series mechanisms.

Applications

• Pool /Spas Lights • Outdoor Lighting • Fountain Lighting

Specifications

CASE— 20-3/4" (52.7 cm) high, 12-3/4" (32.4 cm) wide, 4-1/4" (10.8 cm) deep.

KNOCKOUTS — Main wiring compartment - Four 1/2", one combination 1/2"-3/4", one combination 3/4" - 1", and one combination 1" - 1 1/4" - 1 1/2" knockout on the bottom. Two combination 1/2" - 3/4" and one combination 3/4" - 1" knockouts on the back. One 1 3/4" x 2 3/4" knockout on the right side for mounting a switching device or GFCI. One combination décor/toggle switch knockout on the dead-front. Pool Light wiring compartment - Two combination 3/4" - 1" knockouts on the bottom.

PANEL RATING — 100 amp. maximum, 120/240V.A.C. or 128/208V.A.C. single phase (3-wire)

TRANSFORMER RATING — Same as T10000RT Series

TIME SWITCH RATING — Same as T10000RT Series

MODEL NUMBER	TRANSFORMER OUTPUT	TIME SWITCH MECHANISM	SHIPPING WEIGHT
T40003RT3	12V, 13V, 14V - 300 Watt	T103M	14 lbs.
T40004RT1	12V, 13V - 100 Watt	T104M	20 lbs.
T40004RT3	12V, 13V, 14V - 300 Watt	T104M	20 lbs.

Manufacturer: Intermatic
Warranty: 1-Year

LINKS

[Intermatic Data Sheet](#)

WARRANTY

One (1) Year Limited Warranty on Product, see Owner's Manual for a full description of warranty claims and coverage details.

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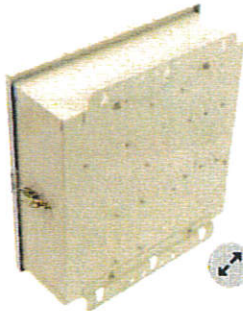
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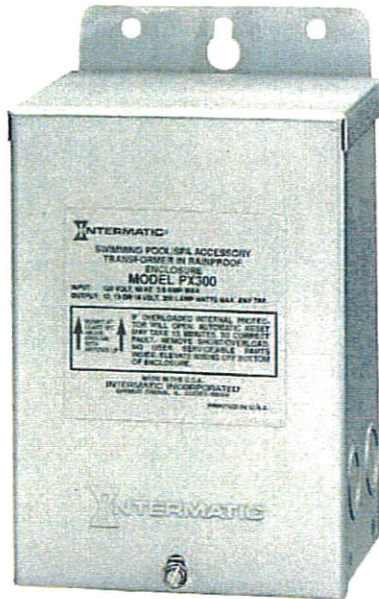
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PARTS



INTERMATIC - STAINLESS STEEL 300W POOL LIGHT TRANSFORMER

Item No. 301436
Manufacturer SKU: PX300S

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Intermatic 300W Stainless Steel Pool Light Transformer - PX300S [More Details](#) v

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Shipping charges may still apply on some products.



DESCRIPTION

Intermatic 300W Stainless Steel Pool Light Transformer - PX300S

- Enclosure: 7.25 (19.4 cm) H x 5.25 (13.3 cm) W x 4.5 (11.4 cm) D. Stainless steel or steel with electrostatically applied light beige finish. Mounting brackets top and bottom.
- Knockouts: Total of ten combination 1/2 -3/4 knockouts, (2) right side, (2) left side, (2) back, (4) bottom.
- Electrical Rating: See table
- Shipping Weight: See table

DETAILS

These Safety Transformers are specifically designed to supply 12 [Chat with an Expert](#) lights, submersible fixtures and outdoor garden lights. A ground the primary and secondary windings assures safe operation and the built-in circuit protection will disconnect power to the transformer in case of defect or overload.

SPECS

Parts and Hardware:

Transformer

Product Type:

Automatic Control

Product Type:	Automatic Control
Manufacturer:	Intermatic
Warranty:	1-Year

LINKS

- [Installation Manual](#)
- [Intermatic Data Sheet](#)

WARRANTY

One (1) Year Limited Warranty on Product, see Owner's Manual for a full description of warranty claims and coverage details.

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Feedback

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Intermatic - Heavy-Duty Contractor Grade Time Switch
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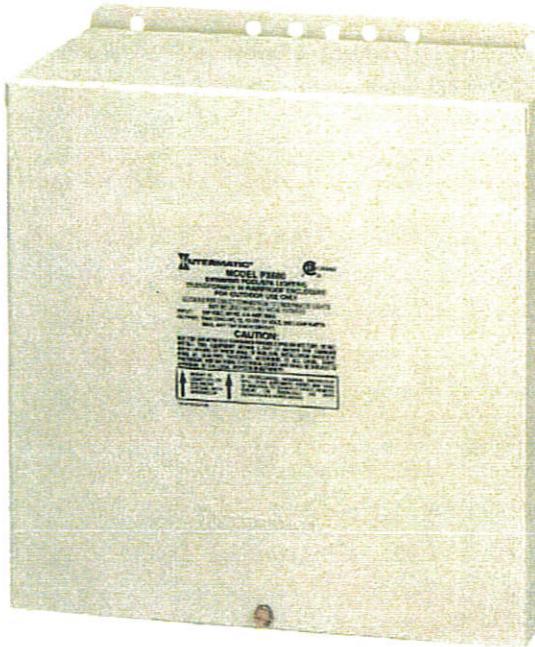
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Enter Keyword or Item #



PARTS



INTERMATIC - TRANSFORMER 600W

Item No. 308747
Manufacturer SKU: PX600

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Intermatic Transformer 600W - PX600 [More Details](#)

Quantity 1

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Shipping charges may still apply on some products.



DESCRIPTION

Intermatic Transformer 600W - PX600

- Enclosure: 10 (25.4 cm) high x 10 (25.4 cm) wide x 5 (12.7 cm) deep. Stainless steel or steel with electrostatically applied light beige finish. Mounting brackets top and bottom.
- Knockouts: Two combination 1/2-3/4, and 4 combination 3/4-1 knockouts on the bottom. Total of six combination 1/2" - 3/4" knockouts, (2) right side, (2) left side, (2) back.
- Electrical Rating: See table
- Shipping Weight: See table

DETAILS

These Safety Transformers are specifically designed to supply 12 volts to pool/spa lights, submersible fixtures and outdoor garden lights. A grounded shield between the primary and secondary windings assures safe operation and the built-in circuit protection will disconnect power to the transformer in case of de

[Chat with an Expert](#)

SPECS

Parts and Hardware: Transformer

Voltage: 120V



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[Home](#) > Pentair 601302 IntelliBrite LED Pool Light 5G White - 120V - 100 Ft Cord (500W)

PENTAIR 601302 INTELLIBRITE LED POOL LIGHT 5G WHITE - 120V - 100 FT CORD (500W)




Pentair IntelliBrite 5g white pool lights feature LED technology and are industry leaders in energy efficiency, value, quality of light, controllability and ease of use. The IntelliBrite 5g LED Light uses just 45 Watts yet has an output equivalent to 300 Watts. With a custom reflector and unique lens design, the IntelliBrite 5g offers super efficiency while being the brightest yet most energy efficient underwater LED light available.

The Pentair EC-601307 IntelliBrite Pool Light has a 100 Foot Cord and is a 12 Volt White LED Light. This is a 12 Volt pool light: To ensure you are ordering the correct light please make sure your electrical supply running to the light is 12 Volts.

MORE INFORMATION

PRODUCT FEATURES

- ✓ Pentair model number EC-601307
- ✓ Replaces the 601307
- ✓ IntelliBrite 5g White LED Pool Light
- ✓ 12V with 100 foot cord
- ✓ Consumes only 70 Watts
- ✓ Output is equivalent to 500 Watts
- ✓ The brightest white LED pool light on the market
- ✓ Up to 50% less energy consumption than competitor's lights
- ✓ Superior reflector design directs light to pool bottom
- ✓ Reflector increases intensity and minimizes glare
- ✓ Superior lens prevents hot spots on the pool bottom
- ✓ Light intensity is distributed uniformly throughout pool
- ✓ Pool lens can be rotated to 180 degrees
- ✓ Wide beam pattern (standard) or narrow beam pattern
- ✓ Works with IntelliTouch and EasyTouch control systems
- ✓ Backwards compatible with first generation IntelliBrite lights
- ✓ Cool running LED lights are durable, no internal filament to wear out
- ✓ 5a technology makes use of

DELIVERY TIME 2-5 Business Days

the brightest LEDs available

MANUFACTURER Pentair✓ Continues to work even when
a single LED goes out

TECHNICAL SPECS **Part number:** EC-601307
Voltage: 12 Volt
Watts: 70 Watts
 (500W Output equivalency)
Color: White
Cord Length: 100'

☆☆☆☆☆ [Write a review](#)🗨️ [Ask a question](#)**Availability:** In stock

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PRODUCT DOCUMENTATION

✓  [Pentair](#)
[IntelliBrite](#)
[Resources](#)

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MANUFACTURER EC-601307
PART #

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IntelliBrite®

Underwater Pool and Spa White LED Light



Installation and User's Guide

IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS
SAVE THESE INSTRUCTIONS

Technical Support

Phone: (800) 831-7133 - Fax: (800) 284-4151

Web sites: visit www.pentairpool.com and www.staritepool.com:

IMPORTANT WARNINGS AND SAFETY PRECAUTIONS	i
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Operating the IntelliBrite lights using a wall switch	1
Using an External Transformer for Multiple IntelliBrite 12 VAC Lights	1
Troubleshooting	2
IntelliBrite Pool or Spa White LED Light Installation	2
Installing the IntelliBrite White LED Light Fixture (new pool construction)	2
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P/N 619838 Rev B - 10/07/09

WARNINGS AND IMPORTANT SAFETY PRECAUTIONS



DANGER SERIOUS BODILY INJURY OR DEATH CAN RESULT IF THIS PUMP AND SAND FILTER IS NOT INSTALLED AND USED CORRECTLY.



DANGER INSTALLERS, POOL OPERATORS AND POOL OWNERS MUST READ THESE WARNINGS AND ALL INSTRUCTIONS BEFORE USING THE POOL AND/OR SPA LED LIGHT.



WARNING Most states and local codes regulate the construction, installation, and operation of public pools and spas, and the construction of residential pools and spas. It is important to comply with these codes, many of which directly regulate the installation and use of this product. Consult your local building and health codes for more information.



IMPORTANT NOTICE - Attention Installer: This Installation and User's Guide ("Guide") contains important information about the installation, operation and safe use of this underwater pool and spa light. This Guide should be given to the owner and/or operator of this equipment.



WARNING Before installing this product, read and follow all warning notices and instructions in this Guide. Failure to follow warnings and instructions can result in severe injury, death, or property damage. Call (800) 831-7133 for additional free copies of these instructions. Please refer to www.pentairpool.com for more information related to this products.



RISK OF ELECTRICAL SHOCK OR ELECTROCUTION:

INTELLIBRITE® POOL AND SPA WHITE LED LIGHTS REQUIRE HIGH VOLTAGE WHICH CAN SHOCK, BURN, OR CAUSE DEATH.

BEFORE WORKING ON INTELLIBRITE POOL AND SPA WHITE LED LIGHTS! Always disconnect power to the pool and/or spa lights at the circuit breaker from the light before servicing the light. Failure to do so could result in death or serious injury to service person, pool users or others due to electric shock.

This underwater light must be installed by a licensed or certified electrician or a qualified pool professional in accordance with the National Electrical Code (NEC), NFPA 70 or the Canadian Electrical Code (CEC), CSA C22.1. All applicable local installation codes and ordinances must also be adhered to. Improper installation will create an electrical hazard which could result in death or serious injury to pool users, installers or others due to electrical shock, and may also cause damage to property. Always disconnect the power to the pool light at the circuit breaker before servicing the light. Failure to do so could result in death or serious injury to serviceman, pool users or others due to electrical shock.

READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL.



Important Safety Information for Pentair Niche and Light Installation

- All Niche and Light installations must conform with all codes. If local codes mandate a cord seal, use Pentair Water Pool and Spa plastic niches (P/N 79206600 and P/N 79206700).
- Under no circumstances replace lights by splicing wire under water or behind niche.

WARNINGS AND IMPORTANT SAFETY PRECAUTIONS



WARNING RISK OF ELECTRIC SHOCK AND INJURY. USE ONLY THE INSTALLATION METHOD SPECIFIED BELOW.

Location of Luminaire Use	Pentair Water Pool and Spa Fountain Fixture* (P/N 560001 and P/N 560000)	Required Installation Method
Swimming Pool and Spa	Wet-Niche Swimming Pool (or Spa) Luminaire (Light)	Fixture Housing (Forming Shell) ONLY. DO NOT USE Fountain Fixture Stand.
Fountain	Wet-Niche Submersible Luminaire (Light) swimming Pool (or Spa) Luminair (Light)	Fixture Housing (Forming Shell) or Fountain Fixture Stand.

(*) **Note:** Wet-niche luminaires complying with requirements for both uses may bare both the Listed Wet-Niche Submersible Luminaires UL Mark. A luminaire not bearing the corresponding UL Listing Mark is not considered by UL to have been produces under UL's Listing and Follow-Up Service for the associated usage location.

CAUTION - The Pentair Water Pool and Spa® IntelliBrite LED light fixture must only be used with Pentair Water Pool and Spa fixture housings (niches). If the IntelliBrite LED light fixture is installed into other niches, the installation will not carry U.L. approval and will void all warranties.



WARNING Salt is an inherently corrosive material. While the levels of salt required for proper operation of an electronic chlorine generator are relatively low when compared to sea water and other salt solutions, placing any amount of salt in your pool increases the likelihood of corrosion or other deterioration of pool equipment and any surfaces used in and around your pool. Metal parts and certain natural and man-made surfaces are particularly susceptible to corrosion and deterioration when used in and around salt water pools. Pentair Water Pool and Spa does not represent or otherwise guarantee that the proper use of an electronic chlorine generator will prevent corrosion or other deterioration of pool equipment and any surfaces used in and around your pool. Consult your experienced pool professional, who should be able to advise you on the proper material selection, installation techniques for those materials, and the proper use, care and maintenance of those materials for your specific pool type and location in order to minimize the corrosion and deterioration that is inherent in and around salt water pools.

IntelliBrite® Pool White LED Light models

There are two IntelliBrite Pool LED light models:

- IntelliBrite Pool White LED Light, 120 VAC, with integrated 12 VAC transformer, 50 ft. cord length* (P/N 600101).
- IntelliBrite Pool White LED Light, 12 VAC, (requires 120 VAC to 12 VAC transformer), 50 ft. cord length* (P/N 600104)

(*) cord length vary from 30 ft. to 100 ft.

IntelliBrite® Spa LED Light models

There are two IntelliBrite Spa LED light models:

- IntelliBrite Spa White LED Light, 120 VAC, with integrated 12 VAC transformer, 50 ft. cord length* (P/N 640051)
- IntelliBrite Spa White LED Light, 12 VAC, (requires 120 VAC to 12 VAC transformer), 50 ft. cord length* (P/N 640054)

(*) cord length vary from 30 ft. to 100 ft.

IntelliBrite® Underwater Pool and Spa White LED Light Overview

This manual describes how to installation and setup the IntelliBrite underwater pool and spa white LED (light-emitting diode) light. The IntelliBrite pool and spa light provides brilliant white light for spectacular effects for your pool and spa. The unique IntelliBrite lens geometry provides a wider beam for greater underwater light reflection providing increased light intensity.

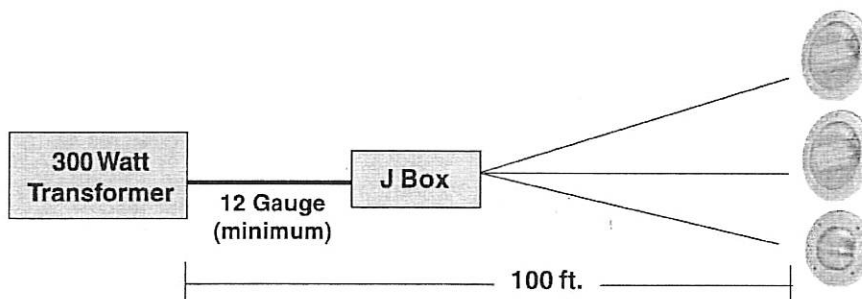
IntelliBrite LED lights are fully compatible with Pentair Water Pool and Spa® IntelliTouch®, EasyTouch® and SunTouch® automation system. For more information refer to the IntelliTouch User's Guide (P/N 520102), EasyTouch User's Guide (P/N 520584), and SunTouch User's Guide (P/N 520785).

Operating IntelliBrite White Pool or Spa LED lights

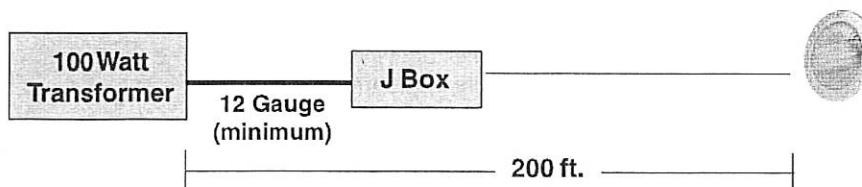
The IntelliBrite pool and spa white LED lights can be manually controlled using a standard wall-mount light switch. Multiple IntelliBrite lights can be connected via a junction box to a single switch so that all lights can be switched on and off together.

Using an External Transformer for Multiple IntelliBrite 12 VAC Lights

When using multiple IntelliBrite 12 VAC LED lights on a **300 Watt** transformer, it is recommended that no more than two (2) IntelliBrite pool lights and one (1) IntelliBrite Spa light be used. It is also recommended not to exceed 100 feet of total cable run between the transformer and light (see diagram below).



If a longer cable run is necessary, it is recommended that separate **100 Watt** transformers be used for each light with no more than 200 feet of total cable run between the transformer and light (see diagram below).



Troubleshooting

Use the following tips to help to resolve problems that might occur while operating the LED light.

Problem	Cause/Action
The light will not illuminate.	Check the ground fault wiring and reset if necessary.
Light does not function properly.	Check the light wiring connection to the junction box at the pool side and to the AC power switch. Be sure that there is proper AC power applied to the light.

IntelliBrite Pool and Spa White LED Light Installation

The following describes how to install the IntelliBrite pool and spa white LED light fixture. Read through pages 2 through 7 before starting the installation procedure.

BEFORE STARTING: The following steps 1-6 (page 3-4) describe the tasks that must be completed by the electrician before the IntelliBrite light fixture is installed. See Figure 1 diagram.

WARNING

Be sure that the pool or spa meets the requirements of the current National Electrical Code (N.E.C.) Article 680-22 and all local codes and ordinances. A licensed or certified electrician must install the electrical system to meet or exceed those requirements before the underwater light is installed. Some of the requirements of the National Electrical Code which the pool's electrical system must meet are as follows:

- The lighting circuit has a Ground Fault Circuit Interrupter (GFCI) for line voltage models, and has an appropriately rated circuit breaker.
- The Junction Box (or, for 12 volt models, the low voltage transformer) is located at least 8 inches above the maximum water level of the pool and at least 48 inches from the edge of the pool; see Figure 1.
- The light fixture and all metal items within 5 feet of the pool are properly electrically bonded.
- The wet niche is properly installed so that the top edge of the underwater light's lens is at least 18 inches below the surface of the water in the pool; see Figure 1. (Not more than 20" depth in Canada.)
- The wet niche is properly electrically bonded and grounded via the No. 8 AWG ground connector located at the rear of the niche; see Figure 1.

Note: The pool or spa electrical system can be verified with a Pool and Spa Electrical Qualification Test Kit. The test kit is available from Pentair Water Pool and Spa®. The electrical system inspection using this kit must be performed by trained and certified personnel.

- To be certain that the pool or spa electrical system meets all applicable requirements, the electrician should also consult the local building department.
- Use only Pentair Water Pool and Spa wet niches to insure proper bonding and grounding connections.

Installing the IntelliBrite White LED light (after electrical requirements are met)

1. Feed cord through conduit to Junction Box, leaving at least four (4) feet of cord at the light fixture to coil around the light; see Figure 1. The four (4) feet of cord around the light allows the light to be serviced after the pool is filled with water.

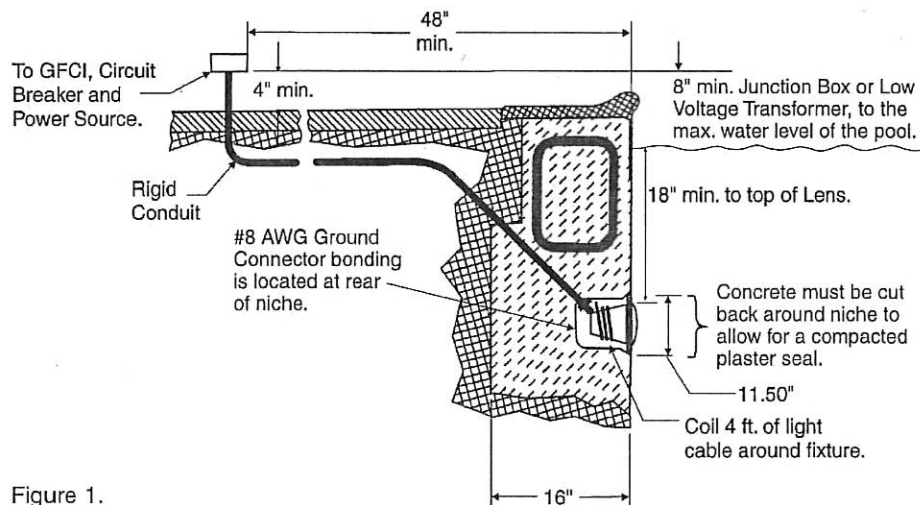


Figure 1.

2. Cut the cord at the Junction Box, leaving at least six (6) inches of cord to make connections.
3. Strip back six (6) inches of the outer cord jacket to expose the three insulated wires (be careful not to damage the insulation on the three (3) inner wires).
4. Connect all three (3) wires to the corresponding circuit wires in the Junction Box and secure the Junction Box cover in place.

⚠ WARNING

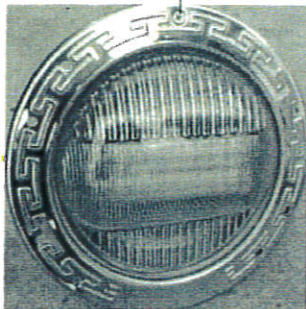
Never operate this underwater light for more than ten (10) seconds unless it is totally submerged in water. Without total submersion, the light assembly will get extremely hot, which may result in serious burns or in breakage of the lens. This may result in serious injury to pool users, installers, or bystanders, or in damage to property.

5. Install the IntelliBrite light assembly into the niche and tighten the special bronze pilot screw.

⚠ WARNING

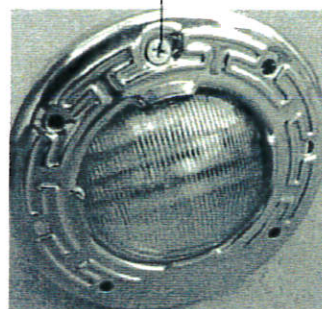
Use only the **special pilot screw provided** with this underwater light. This screw mounts and electrically grounds the housing securely to the mounting ring and wet niche. Failure to use the screw provided could create an electrical hazard which could result in death or serious injury to pool users, installers or others due to electrical shock.

Pilot screw



IntelliBrite Pool White LED Light

Pilot screw



IntelliBrite Spa White LED Light

6. Fill the pool until the underwater light is completely submerged in water before operating the light for more than ten (10) seconds.
7. **Final check for proper light operation:** To check for proper operation, switch on the main switch or circuit breaker, and the switch that operates the IntelliBrite underwater light itself. The light should illuminate when power is applied. If not recheck the installation steps starting with Step 1 (page 3)

**FOR INTELLIBRITE POOL AND SPA WHITE LED LIGHT REMOVAL
AND INSTALLATION INSTRUCTIONS SEE:**

- IntelliBrite Pool White LED Light Removal and Installation instructions, on page 5.
- IntelliBrite Spa White LED Light Removal and Installation instructions, on page 11.

Replacing the IntelliBrite Pool White LED Light Assembly

⚠ DANGER



DANGER!

RISK OF ELECTRICAL SHOCK OR ELECTROCUTION

Always disconnect power to the pool light at the circuit breaker before servicing the light. Failure to do so could result in death or serious injury to installer, serviceman, pool users, or others due to electrical shock.

1. **Turn off main electrical switch or circuit breaker**, as well as the switch which operates the IntelliBrite LED underwater light itself.
2. Before starting make sure that you have a new lens gasket (P/N 79101600) and a IntelliBrite LED pool light assembly (P/N 619834Z) ready to install.

⚠ WARNING

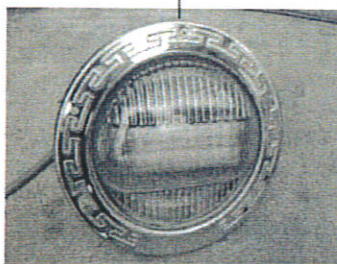
Replace the LED light assembly with the same type and wattage. Failure to replace the LED light assembly with the same type will damage the LED light assembly and may cause an electrical hazard resulting in death or serious injury to pool users, installers, or others due to electrical shock, and may also cause damage to property.

⚠ WARNING

Always install a new lens gasket (P/N 79101600) whenever disassembling the IntelliBrite LED light assembly. Failure to do so may permit water to leak into the assembly which could cause:

- (a) an electrical hazard resulting in death or serious injury to pool users, installers, or others due to electrical shock, or
- (b) breakage of the lens, which likewise could result in serious injury to pool users, installers, or bystanders, or in damage to property.

Pilot screw



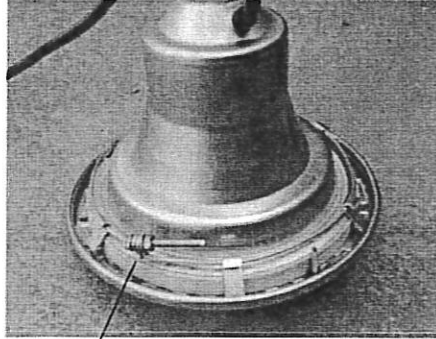
3. **REMOVING THE INTELLIBRITE LED LIGHT:** Remove the pilot screw at top of face ring, remove the light assembly from the niche. Place the assembly on the deck. **Note:** It is not necessary to drain down the pool.

⚠ WARNING

Be sure to keep the pilot screw from the IntelliBrite LED underwater light. This screw mounts and electrically grounds the housing securely to the mounting ring and wet niche. Failure to use the screw provided could create an electrical hazard which could result in death or serious injury to pool users, installers or others due to electrical shock.

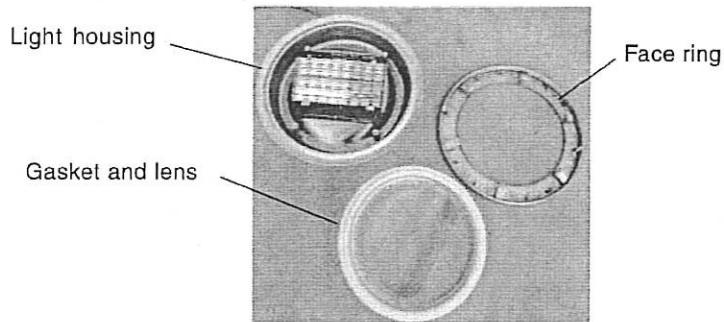
6

4. Using a 1/4" nut driver and a #3 Phillips screwdriver, remove the nut uni-tension wire clamp. Place the nut aside for reinstallation.
5. Remove the face ring and wire clamp from the light housing.

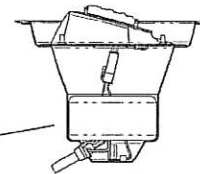
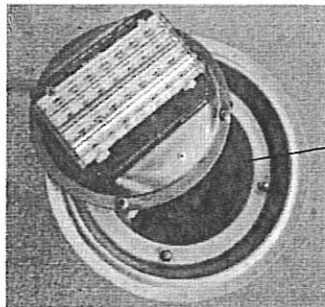
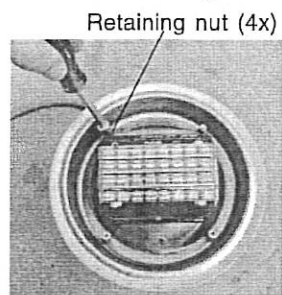


Spring clamp: Remove nut and screw

6. With the light resting on its base, carefully pry off the gasket to remove the lens. Discard the gasket. A NEW LENS GASKET (P/N 79101600) MUST BE USED EACH TIME THE LIGHT IS REASSEMBLED. See page 10 for replacement kit part numbers.

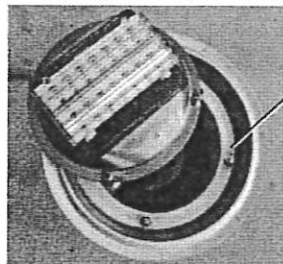


7. Using a 1/4" nut driver, carefully remove the four retainer nuts from the LED light assembly. Place the nuts aside for reinstallation.
8. Unplug the LED light assembly connector and remove the assembly from the housing.



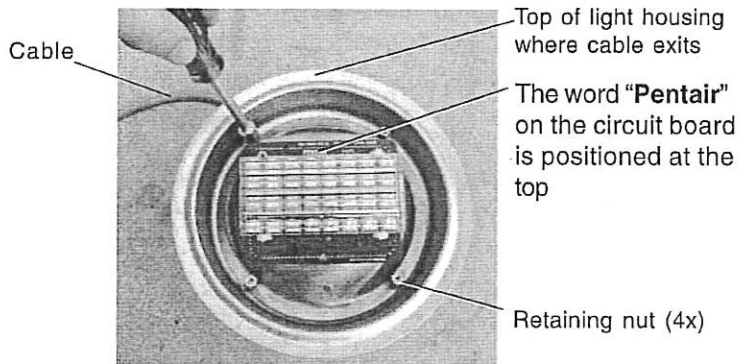
Unplug the LED light assembly connector to remove the light assembly from its housing

9. **INSTALLING THE INTELLIBRITE LED LIGHT WITH NEW GASKET:** Install a new gasket (P/N 79101600, see page 10) during reassembly of the IntelliBrite LED light. A NEW LENS GASKET MUST BE USED EACH TIME THE LIGHT IS REASSEMBLED.
10. Clean the inside surface containing the four mounting studs with isopropyl alcohol. Be sure to keep the underside of the new IntelliBrite LED assembly clean.



Clean this surface before installing the light assembly

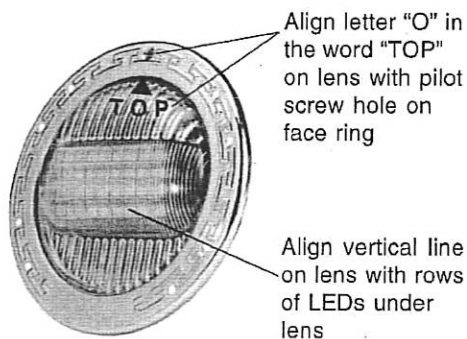
11. Connect the IntelliBrite LED light plug to the connector in the light housing. Lower the LED light assembly into the light housing. Be sure that there are no wires caught between the housing and the back of the light assembly.
12. Orientate the light assembly so that the word "**Pentair**" on the circuit board is positioned at the top (where cable exits) as shown below.



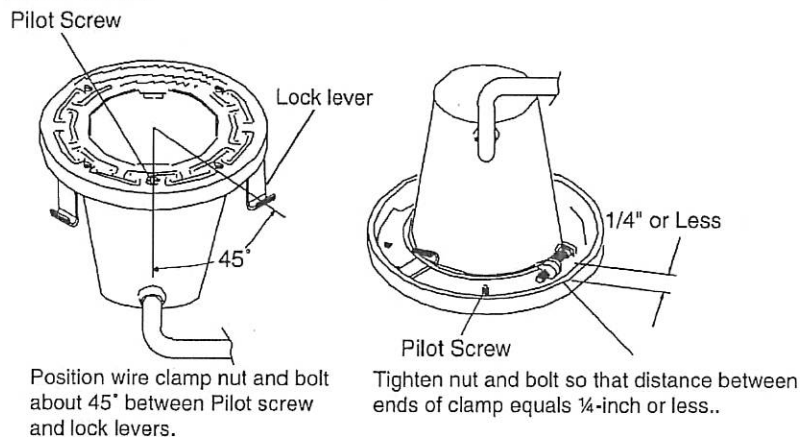
13. With the housing resting on its base, carefully align the four screws holes of the light assembly and the housing base. Using a 1/4" nut driver, secure the light assembly in place with the four (4) retaining nuts.

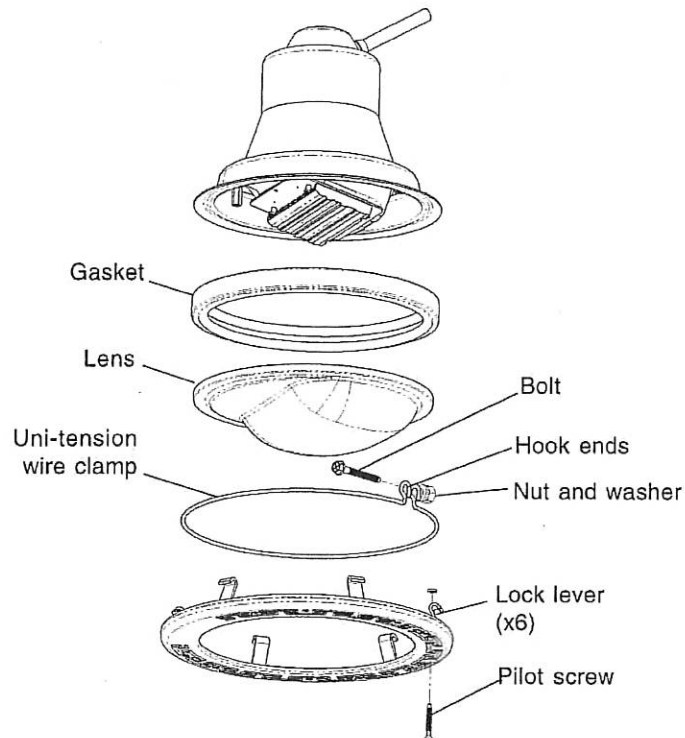
14. Install the new gasket onto the lens:

- a) With the light housing resting on its base, place the lens then the gasket on top of the light housing.
- b) Place the face ring on top of the gasket. Make sure that the lens and gasket are centered correctly on the light housing.
- c) **Aligning the face ring and lens:** Align the face ring and lens so that the letter "O" in the word "TOP" (and the small arrow above it) on the surface of the lens points to the pilot screw hole on the face ring.
- d) **Aligning the lens position with the LEDs:** While looking through the front of the lens, slightly rotate the lens until the vertical lines on the lens are in focus with the four (4) rows of LEDs below.



15. With the hook ends of the circular uni-tension clamp pointing down, spread the clamp and place it in the "U" recesses of the locking levers. Be sure the hook ends of the clamp are located between the pair of locking levers as shown below and that the wire clamp is properly engaged with all of the lock levers.
16. Place a cloth on the ground to protect the lens. Turn the light over so the lens is resting on the cloth. Be sure the orientation of the wire clamp and the bolt connection is positioned at 45°.
17. Tighten the bolt and nut until the distance between the ends of the clamp equals 1/4-inch or less.





18. **PROCEED TO “Replacing the IntelliBrite White LED Light Assembly (in an existing pool or spa)” on page 16 for pool light assembly installation instructions.**

IntelliBrite Pool White LED Light Replacement Kit Part Numbers

Pilot screw with
captive gum washer

Face ring

Uni-tension
wire clamp
assembly

Lens

Gasket

IntelliBrite LED
Pool light assembly

Note: A 120 VAC to 12 VAC external transformer is required for the 12 VAC model IntelliBrite LED Pool light. See page ii for more information.

Kit Part No.	Description
600095	Face Ring assembly, stainless steel. - Uni-tension wire clamp assembly. - Gasket, 8-3/8 in. diameter, off white.
600096	Replacement Lens Kit. - Gasket, 8-3/8 in. diameter, off white. - Lens, IntelliBrite, Pool, 8-3/8 in. diameter, tempered.
619834Z	Replacement Kit (light assembly, white LED). - Uni-tension wire clamp assembly. - Gasket, 8-3/8 in. diameter, off white.
79104800	Pilot screw, with captive gum washer.
79101600	Gasket, 8-3/8 in. diameter, off white.

Note: The 120 Volt IntelliBrite White light has an integrated 12 Volt transformer.

IntelliBrite® Pool and Spa White LED Light Installation and User's Guide

Replacing the IntelliBrite Spa White LED Light Face ring and Gasket (P/N 640045) or Gasket and Lens (640046) see page 15

Note: When replacing an IntelliBrite Spa White LED light assembly, a new spa light assembly includes a light engine, lens, gasket and face ring (for part light assembly part numbers, see page ii).

⚠ DANGER



DANGER!

RISK OF ELECTRICAL SHOCK OR ELECTROCUTION

Always disconnect power to the pool light at the circuit breaker before servicing the light. Failure to do so could result in death or serious injury to installer, pool professional, pool users, or others due to electrical shock.

1. **Turn off main electrical switch or circuit breaker**, as well as the switch which operates the IntelliBrite LED underwater light itself.

⚠ WARNING

Replace the LED light assembly with the same type and wattage. Failure to replace the LED light assembly with the same type will damage the LED light assembly and may cause an electrical hazard resulting in death or serious injury to pool users, installers, or others due to electrical shock, and may also cause damage to property.

⚠ WARNING

Always install a new lens gasket (see page 15 for kit part numbers) whenever disassembling the IntelliBrite LED light assembly. Failure to do so may permit water to leak into the assembly which could cause: **(a)** an electrical hazard resulting in death or serious injury to pool users, installers, or others due to electrical shock, or **(b)** breakage of the lens, which likewise could result in serious injury to pool users, installers, or bystanders, or in damage to property.

Pilot screw



IntelliBrite Spa White LED Light

2. **REMOVING THE INTELLIBRITE LED LIGHT:** Remove the pilot screw at top of face ring, remove the light assembly from the niche. Place the assembly on the deck. **Note:** It is not necessary to drain down the pool.

⚠ WARNING

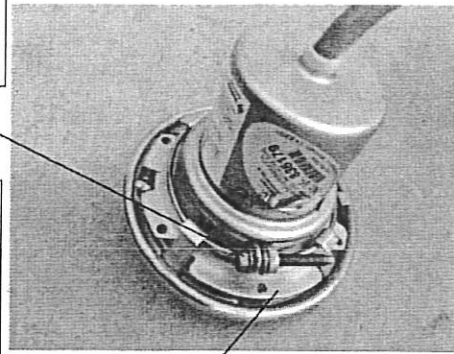
Be sure to keep the pilot screw from the IntelliBrite LED underwater light. This screw mounts and electrically grounds the housing securely to the mounting ring and wet niche. Failure to use the screw provided could create an electrical hazard which could result in death or serious injury to pool users, installers or others due to electrical shock.

4. Using a number three (3) Phillips head screwdriver loosen the screw and remove uni-tension wire clamp from the face ring.
5. Remove the face ring and wire clamp from the light housing and set aside for installation later.

Note: A 120 VAC to 12 VAC external transformer is required for the 12 VAC model IntelliBrite LED Spa light. See page 9 for more information.

Loosen the Phillips screw to remove wire clamp

Note: The IntelliBrite Spa Light fixture is a sealed light assembly which is replaceable. The lens, gasket and face ring can be removed from the sealed light assembly for replacement. See page 15 for replacement kit part numbers.



IntelliBrite spa light fixture with lens, gasket and face ring attached

6. With the light assembly resting on its base, carefully pry off the gasket to release the lens. Discard the gasket. A NEW LENS GASKET MUST BE USED EACH TIME THE SPA LED LIGHT IS REASSEMBLED
7. Disconnect the IntelliBrite Spa LED light assembly cable from the junction box and discard the light assembly.



8. INSTALLING THE INTELLIBRITE SPA LED WHITE WITH NEW GASKET:

Install a new gasket during reassembly of the IntelliBrite spa LED white light. A NEW LENS GASKET MUST BE USED EACH TIME THE LIGHT IS REASSEMBLED.

9. Install the new gasket onto the lens:

a) With the light housing resting on its base, place the lens then the gasket on top of the light housing.

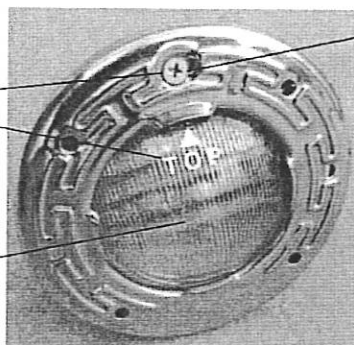
b) Place the face ring on top of the gasket. Make sure that the lens and gasket are centered correctly on the light housing.

c) **Aligning the face ring and lens:** Align the face ring and lens so that the letter "O" in the word "TOP" and the small arrow above it) on the surface of the lens points to the pilot screw hole on the face ring.

d) **Aligning the lens position with the LEDs:** While looking through the front of the lens, slightly rotate the lens until the vertical lines on the lens are in focus with the four (5) rows of LEDs below.

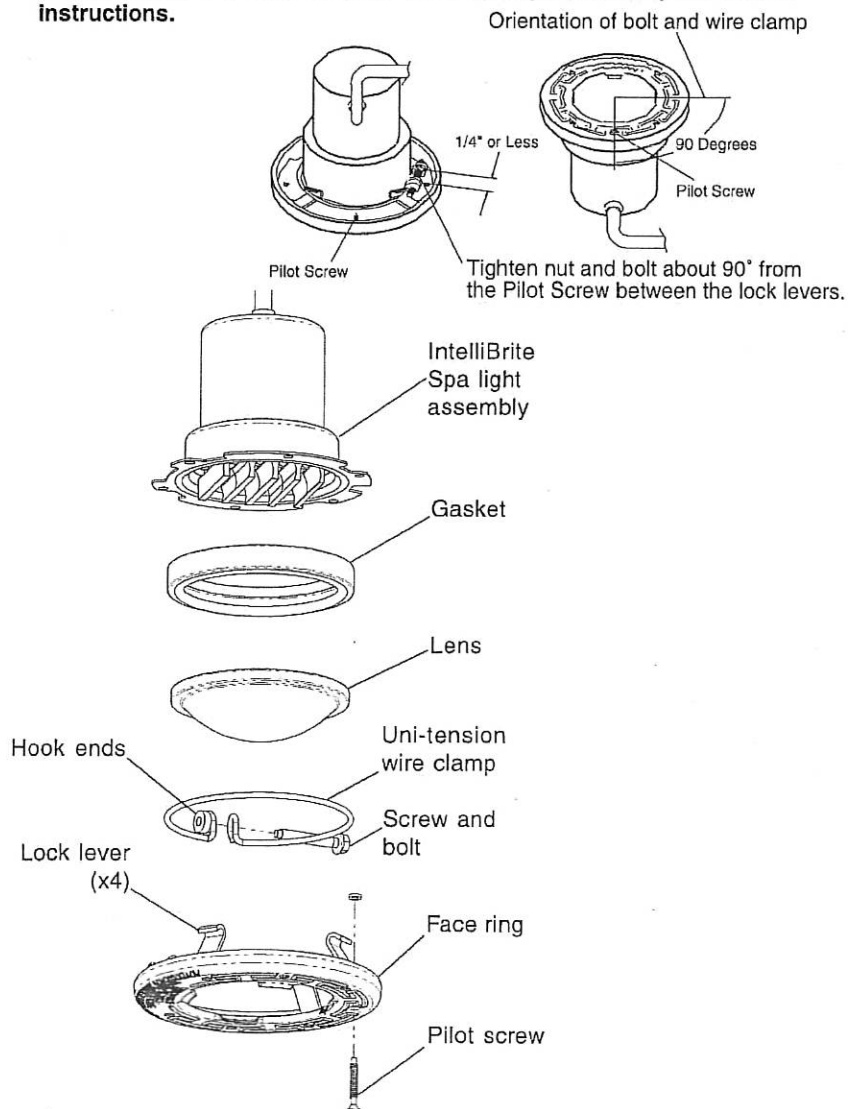
Align letter "O" in
the word "TOP"
on lens with pilot
screw hole on
face ring

Align vertical line
on lens with rows
of LEDs under
lens

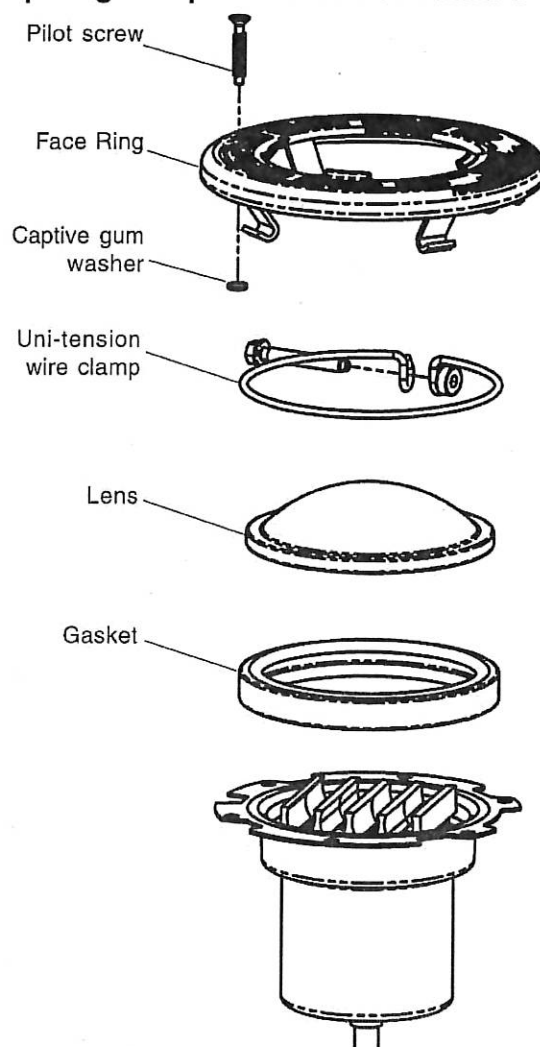


Pilot screw

10. With the hook ends of the circular uni-tension wire clamp pointing down, spread the clamp and place it in the "U" recesses of the locking levers. Be sure the hook ends of the wire clamp are located between the pair of locking levers as shown below and that the clamp is properly engaged with all of the lock levers.
11. Place a cloth on the ground to protect the lens. Turn the light over so the lens is resting on the cloth. Tighten the bolt and nut until the distance between the ends of the clamp equals $\frac{1}{4}$ -in or less.
12. **PROCEED TO "Replacing the IntelliBrite White LED Light Assembly (in an existing pool or spa)" on page 16 for spa light assembly installation instructions.**



IntelliBrite Spa Light Replacement Kit Numbers



Kit Part No.	Description
640045	Face ring assembly, stainless steel - Uni-tension wire clamp assembly - Gasket, 4 in diameter, off white
640046	Gasket, 4 in diameter, off white - Lens, IntelliBrite, Spa, 4 in diameter, tempered
79104800	Pilot screw, with captive gum washer
79108500	- Gasket, 4 in diameter, off white

Note: A 120 VAC to 12 VAC external transformer is required for the 12 VAC model IntelliBrite LED Spa light. See page ii for more information.

Replacing the IntelliBrite Pool or Spa White LED Light Assembly (in an existing pool or spa)

Risk of Electrical Shock or Electrocutation!	
	This underwater light must be installed by a licensed or certified electrician or a qualified pool professional in accordance with the National Electrical Code and all applicable local codes and ordinances. Improper installation will create an electrical hazard which could result in death or serious injury to pool users, installers or others due to electrical shock, and may also cause damage to property. Always disconnect the power to the pool light at the circuit breaker before servicing the light. Failure to do so could result in death or serious injury to serviceman, pool users or others due to electrical shock.

Verify that the pool and spa meets the requirements of the current National Electrical Code and all local codes and ordinances. A licensed or certified electrician must install the electrical system to meet or exceed those requirements before the underwater light is installed. Some of the requirements of the National Electrical Code which the pool's electrical system must meet are as follows:

- The lighting circuit has a Ground Fault Circuit Interrupter (GFCI) for line voltage models, and has an appropriately rated circuit breaker.
- The Junction Box (or, for **12 volt models**, the low voltage transformer) is located at least eight (8) inches above ground level and at least 48 inches from the edge of the pool; see Figure 1 on page 3.
- The light fixture and all metal items within five (5) feet of the pool are properly electrically bonded.
- The wet niche is properly installed so that the top edge of the underwater light's lens is at least 18 inches below the surface of the water in the pool; see Figure 1 on page 3.
- The wet niche is properly electrically bonded and grounded via the No. 8 AWG ground connector located at the rear of the niche; see Figure 1.

Note: The pool and spa electrical system can be verified with a *Pool and Spa Electrical Qualification Test Kit*. The test kit is available from Pentair Water Pool and Spa. The electrical system inspection using this kit must be performed by trained and certified personnel.

- To be certain that the pool's electrical system meets all applicable requirements, the electrician should also consult the local building department.
- Use only Pentair Pool Products® wet niches to insure proper bonding and grounding connections.

Replacing the IntelliBrite Pool or Spa White LED light (after electrical requirements are met)

The following installation instructions describe how to install the IntelliBrite white pool and spa LED light assembly after completing the LED light engine removal and replacement procedures. Refer to:

- **IntelliBrite Pool White LED Light Removal and Installation instructions, on page 5.**
- **IntelliBrite Spa White LED Light Gasket, Face Ring and Lens Removal and Installation instructions, on page 11.**

WARNING

Failure to bring the pool or spa's electrical system up to code requirements before installing the underwater light will create an electrical hazard which could result in death or serious injury to pool users, installers, or others due to electrical shock, and may also cause damage to property.

1. **WARNING! Switch off main electrical switch or circuit breaker, and the switch which operates the IntelliBrite underwater light.**
2. **To remove light fixture assembly from the pool.** Remove the special bronze pilot screw at top of face ring. Remove the IntelliBrite light assembly from the niche and place it on the deck.
3. Remove Junction Box cover, disconnect the light fixture wires, and pull the cord through the conduit.
4. Feed the new light fixture cord through the conduit from the niche to the Junction Box. **Note:** Depending on the length of the conduit, special tools may be required to pull the cord through the conduit.
5. Leave at least four (4) feet of cord to coil around the light fixture; see Figure 1 on page 3. This four (4) feet of cord coiled around the light allows the light to be serviced after the pool is filled with water.
6. Cut the cord at the Junction Box, leaving at least size (6) inches of cord to make connections.
7. Strip six (6) inches of the outer cord jacket from the cord to expose the three insulated wires – Be careful not to damage the insulation on the three inner wires.
8. Connect all three wires to the corresponding circuit wires in the Junction Box (black wire to power, white wire to common, and green wire to ground) and secure the Junction Box cover in place.

⚠ WARNING

Never operate this underwater light for more than ten (10) seconds unless it is totally submerged in water. Without total submersion, the light assembly will get extremely hot, which may result in serious burns or in breakage of the lens. This may result in serious injury to pool users, installers, or bystanders, or in damage to property.

9. Install the IntelliBrite light assembly into the niche and tighten the special bronze pilot screw.

⚠ WARNING

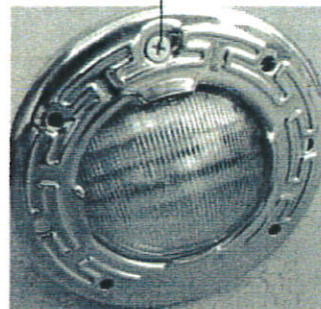
Use only the **special pilot screw provided** with this underwater light. This screw mounts and electrically grounds the housing securely to the mounting ring and wet niche. Failure to use the screw provided could create an electrical hazard which could result in death or serious injury to pool users, installers or others due to electrical shock.

Pilot screw



IntelliBrite Pool White LED Light

Pilot screw



IntelliBrite Spa White LED Light

10. Fill the pool/spa until the IntelliBrite underwater LED light is completely submerged in water before operating the light for more than ten (10) seconds.
Note: The light should never be powered on out of the water for more than 10 seconds. Switch on main switch or circuit breaker, as well as the switch which operates the underwater light itself to verify that the light is operating correctly.

Notes

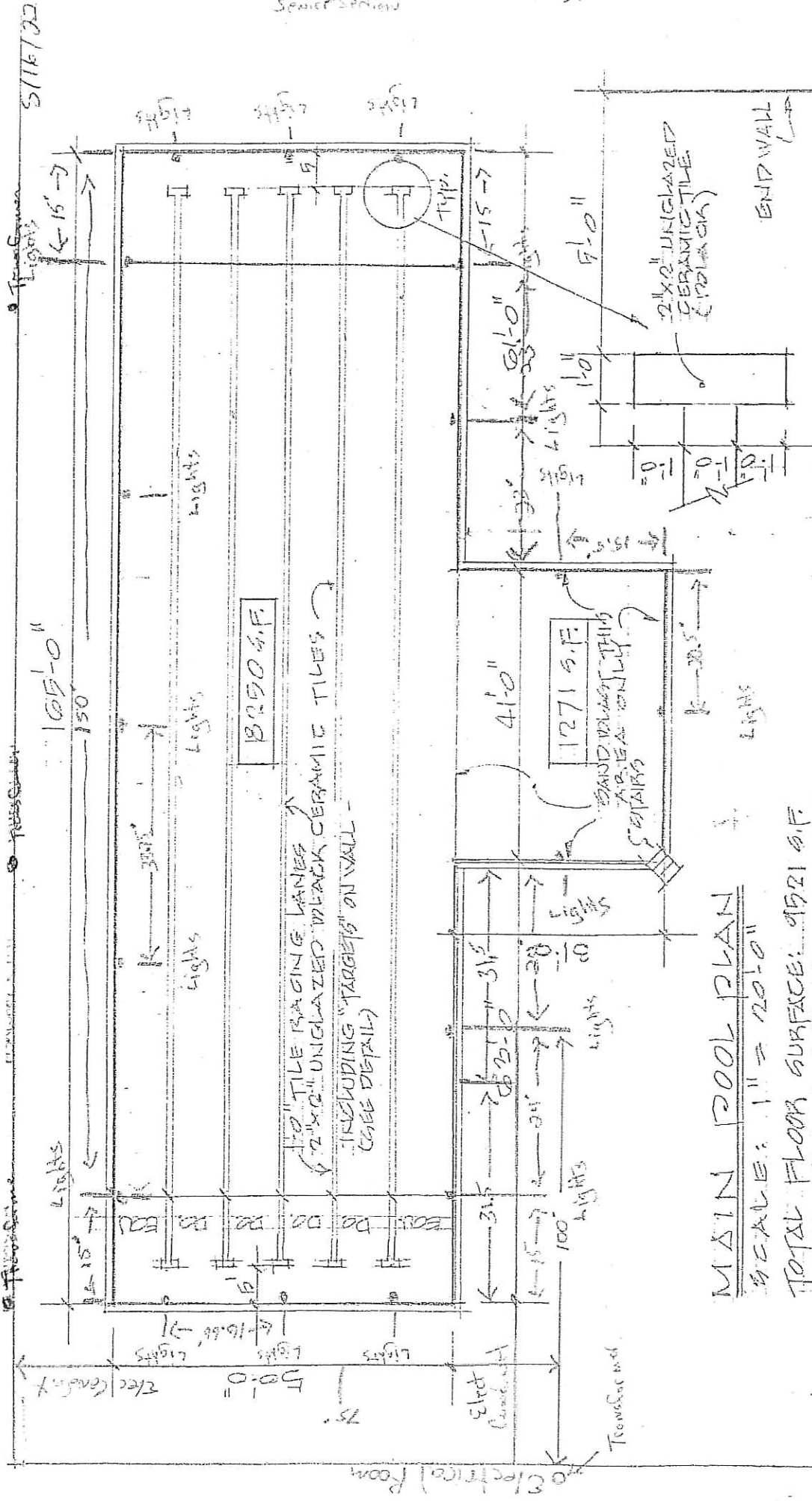


P/N 619838 Rev B

5/16/22

• Frangula
S. 1012

- Transformer



END OF RACING LINES

DATE: 3/5 = 1-0"

RESOLUTION OF

GINNY DUNFEL MUNICIPAL POOL

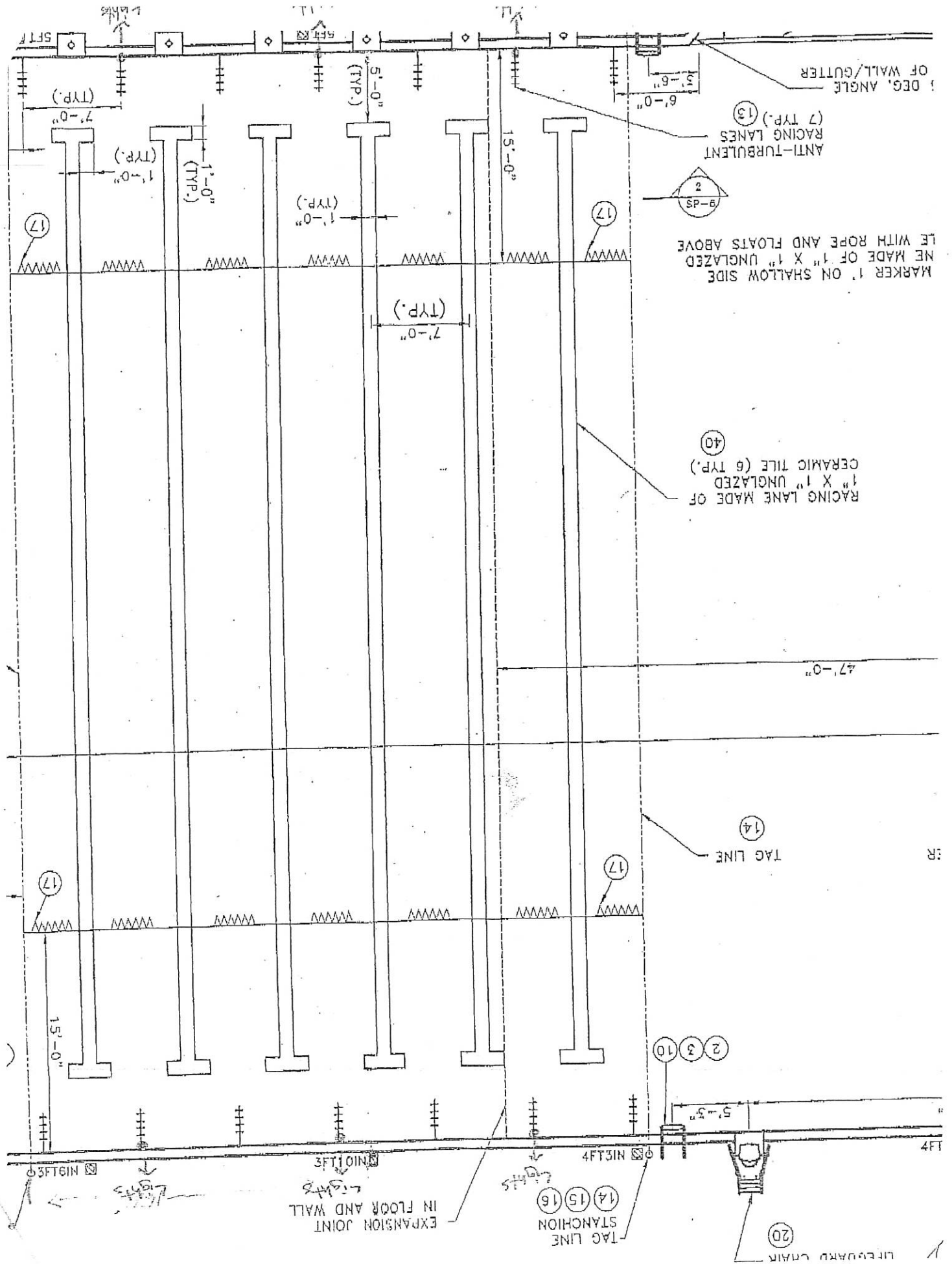
60 1/2 CHERRY STREET

WEST ORANGE, N.J. 07052

PREPARED BY:
KELLY B. C.

ENGINEERING DEPT.
N.O.D.B.W.

1970-1971



Fwd: Florham Park Pool Renovations

James Latore <jlalore@westorange.org>

Thu 8/11/2022 1:34 AM

To: Joe Pelose <JPelose@westorange.org>

 4 attachments (945 KB)

FP107-Model.pdf; image001.png; Florham Park Pool 2014-12-16 012.jpg; Florham Park Pool 2014-12-16 020.jpg;

Can you please print this email for me?

Sent from my iPhone

Begin forwarded message:

From: Carmine Coscia <carminecoscia@cfmconstruction.com>

Date: August 10, 2022 at 7:15:10 PM EDT

To: James Latore <jlalore@westorange.org>

Subject: Florham Park Pool Renovations

Jim,

Attached is construction plan for the Florham Park Pool Renovations. The location of the underwater lights noted as "B" are shown on the plan.

Also attached are some photos of the underwater light niches installed in the existing concrete pool shell.

Call me if you have any questions.

Thanks,

Carmine Coscia

CFM Construction, Inc.
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Stirling, New Jersey 07980
P: (908) 903-9477
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