

December 14<sup>th</sup> 2015

**Plainfield Planning Board  
Site Plan Notice**

You are hereby notified that **Kimball Union Academy** has filed an application for a site plan review concerned with the addition of five street lights to Main Street in Meriden Village.

**A Public hearing on the proposal will be held:**

**Monday December 28th 2015  
At 7:00pm at the  
Meriden Town hall  
110 Main Street  
Meriden Village**

The Planning Board will visit the project site at 6:30pm the night of the hearing. Members of the public are welcome to attend as well, meet at the Meriden Post Office.

**Note:** This hearing is to be held in order to comply with a legal requirement of law (RSA 676:4). Abutters are invited to attend for their own benefit and information; they are not required by law to attend. **The application materials are available at the town office and are posted up on the town's website [www.plainfieldnh.org/planning.html](http://www.plainfieldnh.org/planning.html).**

**Steve Halleran**

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**From:** Doug Plummer [dplummer@kua.org]  
**Sent:** Tuesday, December 08, 2015 2:56 PM  
**To:** plainfield.TA@plainfieldnh.org  
**Cc:** Paul Roberts; Frank Currier (frank.currier@nhipulleys.com)  
**Subject:** KUA Main St. Lighting Plans  
**Attachments:** 1553 L1-L2 11-30-15.pdf

Steve,

As requested here is the information on the Main Street Lighting plan. There are 5 new lights which we plan to start on the north side of Main Street, across from #31 (Kilton House), and run east to the front of #6 Main Street (Frost Dorm.) The plans show one other light, between #37 and #45 Main Street, which we have eliminated for now.

The lights are basically the same as the 5 LED street lights that we installed a few years ago. They have improved the other style and no longer make the one that we have here already. They are mounted on the same style pole which is 28' high. Currently the lights stop at Chellis Dorm and it is very dark the remainder of the way down the hill. As you see from the footcandle display these lights will provide a better quality light and therefore a safer sidewalk for the remainder of the way down Main Street. During our Phase I lighting upgrades Chief's Roberts and Currier both pushed for the new lights "up the hill" so I'm sure that they both will agree is something that would be good to have happen for the area east of Campus Center Drive.

Once this has been completed Liberty Utilities would be able to pull down the 3 of the utility pole mounted lights on the south side of Main Street as they are energy inefficient and throw very poor quality light to the sidewalk on the north side of the street. Since we are not able to install a light on the Estes' Property we would also plan to see if Liberty Utilities can either move one of the old lights, or install a new LED light, on the utility pole between #37 and #45 Main Street so that it would fill the last remaining

"black hole" along the north side sidewalk. I will keep you appraised how that turns out.

Thank you for your help with this and please let me know what else you may need from us.

Doug

*Douglas R. Plummer*

Director of Facilities and Operations

**Kimball Union Academy**


P.O. Box 188

Meriden, NH 03770

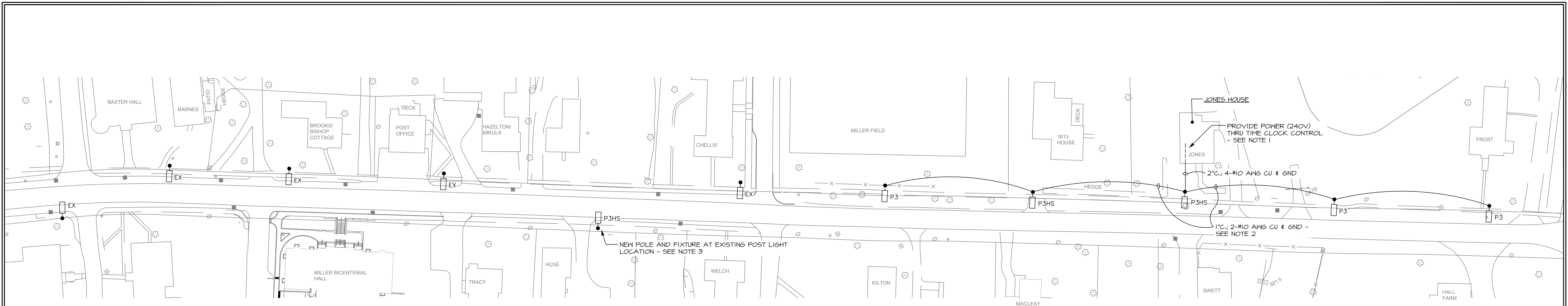
Ph. 603-469-2152

Fax. 603-469-2047

[www.kua.org](http://www.kua.org)

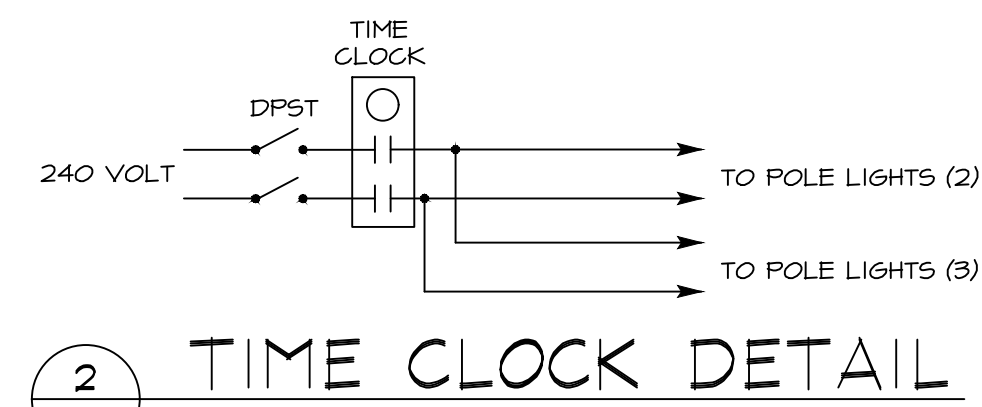
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**1 SITE PLAN - LIGHTING**

SCALE: 1" = 50'-0"

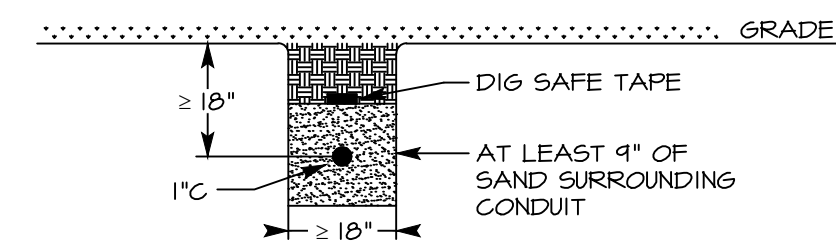


**2 TIME CLOCK DETAIL**

SCALE: NONE

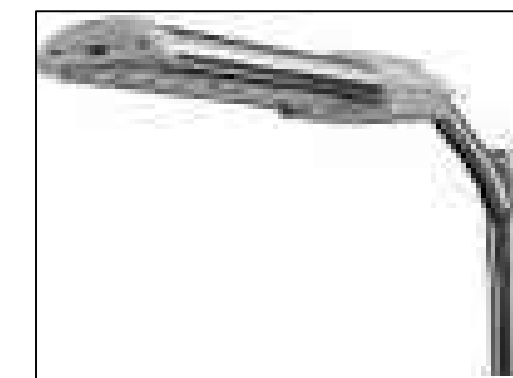
**TIME CLOCK DETAIL NOTES**

- 1. TIME CLOCK SHALL HAVE BATTERY BACKUP AND ASTRONOMIC CORRECTION.



**3 TRENCH DETAIL**

SCALE: NONE



**4 TYPE "P" FIXTURES**

SCALE: NONE

**DRAWING NOTES**

1. PROVIDE 240 VOLT POWER FOR NEW LOWER MAIN STREET POLE LIGHTS (5) FROM MAIN PANEL IN JONES HOUSE FACULTY HOUSING BUILDING. ELECTRICAL CONTRACTOR (EC) SHALL VISIT THE HOUSE AND EXAMINE THE ELECTRICAL PANEL AND DETERMINE THE BEST OPTION FOR PROVIDING THE 240 VOLT FEED FOR THE LIGHTS. EACH LIGHT IS ~210 WATTS AND THERE ARE FIVE (5) LIGHTS FOR A TOTAL OF ~1050 WATTS, OR 4.5 AMPS AT 240 VOLTS (SINGLE PHASE). IF THERE IS NOT SPACE FOR A NEW TWO POLE BREAKER IN THE EXISTING MAIN PANEL, THE EC SHALL PROVIDE A SMALL SUB-PANEL OR TWO POLE BREAKER BOX FED FROM THE MAIN PANEL. PROVIDE A NEW 2 POLE, 15 AMP BREAKER FOR THE FEED TO THE LIGHTS CLEARLY AND PERMANENTLY MARKED. FEED TO NEW POLE LIGHTS SHALL GO THROUGH A TIME CLOCK FOR OFF CONTROL. PHOTOCELL ON THE LIGHTS SHALL TURN THE LIGHTS ON AT DUSK AND THE TIME CLOCK SHALL TURN THE LIGHTS OFF AT AN OWNER DETERMINED TIME. TIME CLOCK SHALL HAVE BATTERY BACKUP, ASTRONOMIC TIME CORRECTION, MANUAL OVERRIDE AND SHALL HAVE AT LEAST DPST 20 AMP RATED CONTACTS (INTERMATIC ET8215C OR PRE-APPROVED EQUIVALENT).
2. FEED TO THE NEW POLE LIGHTS SHALL EXIT THE BUILDING UNDERGROUND OR GO THROUGH THE FOUNDATION WALL AND IMMEDIATELY GO UNDERGROUND. THERE SHALL BE TWO FEEDS AS SHOWN - ONE FOR THE LIGHT IN FRONT OF THE JONES HOUSE AND THE TWO LIGHTS UP MAIN STREET (WEST), AND ONE FEED FOR THE TWO (2) POLE LIGHTS DOWN MAIN STREET (EAST). THE TWO FEEDS CAN SPLIT AT THE TIME CLOCK OR AT A CLEARLY MARKED JUNCTION BOX WHERE THE FEEDS EXIT THE BUILDING WITH ONE FEED FROM THE PANEL BREAKER TO THAT POINT. WIRING SHALL BE #10AWG COPPER IN EMT OR MC IN THE BUILDING AND #10AWG COPPER IN SCHEDULE 80 PVC OUTSIDE UNDERGROUND. PROVIDE APPROPRIATE GROUND CONDUCTOR PER NEC ART. 250, BUT NOT SMALLER THAN #12AWG CU.
3. THE ONE NEW POLE FARTHEST WEST THAT WILL BE LOCATED AT THE LOCATION OF AN EXISTING POST LIGHT SHALL HAVE A NEW BASE BUT WILL BE FED FROM THE EXISTING FEED. EC SHALL REMOVE THE EXISTING POST, BASE AND LIGHT CAREFULLY TO PRESERVE THE INTEGRITY OF THE EXISTING FEED WIRES. CONNECTION TO THE EXISTING WIRING MAY REQUIRE THE ADDITION OF AN IN-GROUND SPLICE BOX.
4. NEW POLES AND FIXTURES SHALL MATCH EXISTING POLE LIGHTS IN FINISH AND APPEARANCE. THREE OF THE FIXTURES SHALL HAVE HOUSE SIDE SHIELDING - SEE FIXTURE SCHEDULE FOR DETAILS.

**SUMMARY OF WORK**

- A. PROVIDE (FURNISH AND INSTALL) SIX (6) NEW POLE MOUNTED ROADWAY LIGHTS ALONG MAIN STREET AS SHOWN. WORK SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, CONCRETE POLE BASES, POLES AND FIXTURES, BREAKER, TIME CLOCK AND CONDUIT AND WIRING FOR A COMPLETE, OPERATIONAL ROADWAY LIGHTING SYSTEM (SEE DRAWINGS, DETAILS AND SPECIFICATION/NOTES). TRENCHING AND BACK-FILL SHALL BE DONE BY A SEPARATE CONTRACTOR WORKING DIRECTLY FOR KJA. PLEASE NOTE THAT GROUND CONDITIONS (ROCK/LEDGE) MAY NOT ALLOW PRECAST CONCRETE BASES AND MAY REQUIRE SPECIAL LATERALLY DISTRIBUTED CONCRETE BASES.
- B. THIS CONTRACTOR SHALL COORDINATE ALL WORK AND SCHEDULING WITH OWNERS AND SITE CONTRACTOR.
- C. TERMS OF THE CONTRACT (FEES, PAYMENT, SCHEDULING, CLEANUP ETC) SHALL BE WORKED OUT DIRECTLY WITH THE OWNERS AND THIS CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS AND RESTRICTIONS OF KJA.
- D. FIVE OF THESE LIGHTS SHALL BE FED FROM THE JONES FACULTY HOUSING BUILDING AND ONE SHALL BE FED FROM AN EXISTING FEED CURRENTLY FEEDING AN EXISTING POST LIGHT. POST LIGHT IS TO BE REMOVED BY THIS CONTRACTOR.
- E. THIS CONTRACTOR SHALL PROVIDE SUBMITTALS TO OWNERS AND ENGINEER/LIGHTING DESIGNER FOR APPROVAL PRIOR TO ORDERING AND MATERIALS AND FIXTURES.

**LIGHT FIXTURE SCHEDULE**

LIGHT	MANUFACTURER	MODEL NO.	LAMP TYPE / LUMENS	MOUNTING
P3	CREE/BETALED	STR-LNY 3M HT 04 E UL XX (COLOR TO MATCH EXISTING) 700 R 40K	LED 210W / 15,900 LUMENS	28' POLE WITH HORIZONTAL TENON ARM
P3HS	CREE/BETALED	STR-LNY 3M HT 04 E UL XX (COLOR TO MATCH EXISTING) 700 R 40K WITH XA-XSLBL540 HOUSE SIDE SHIELD	LED 210W / 15,900 LUMENS	28' POLE WITH HORIZONTAL TENON ARM

**SITE LIGHTING NOTES**

1. THE SITE LIGHTING LAYOUT WITH THE NEW HADCO RL52 LED FIXTURES MEETS OR EXCEEDS THE NH ENERGY CODE (IECC AS AMENDED).
2. FIXTURE HAS LED LAMPING WITH A CRI ≥ 70.
3. FIXTURES AND LOCATIONS WERE CHOSEN AND DESIGNATED BY OTHERS.

PROGRESS PRINT ONLY  
NOT FOR CONSTRUCTION  
NOVEMBER 30, 2015

**RENO ENGINEERING & LIGHT DESIGN**

MARLOW, NH 03456

603-446-3426, 603-446-3731 (F)  
EMAIL: renoengineering@relightdesign.com

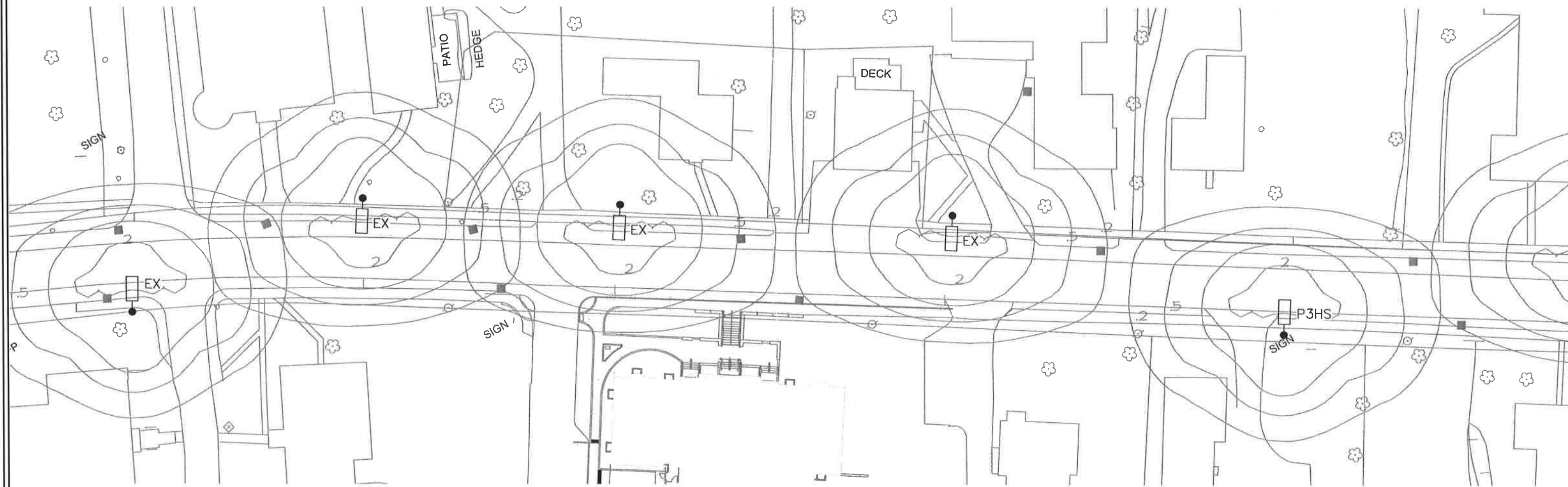
DATE ISSUED: 11/30/2015  
REVISIONS:

**KIMBALL UNION ACADEMY  
MERIDEN, NEW HAMPSHIRE**

**MAIN STREET - SITE LIGHTING**

PROJECT NO.: 1553

**L1**



1  
L2

# SITE PLAN

SCALE: 1" = 50'-0"