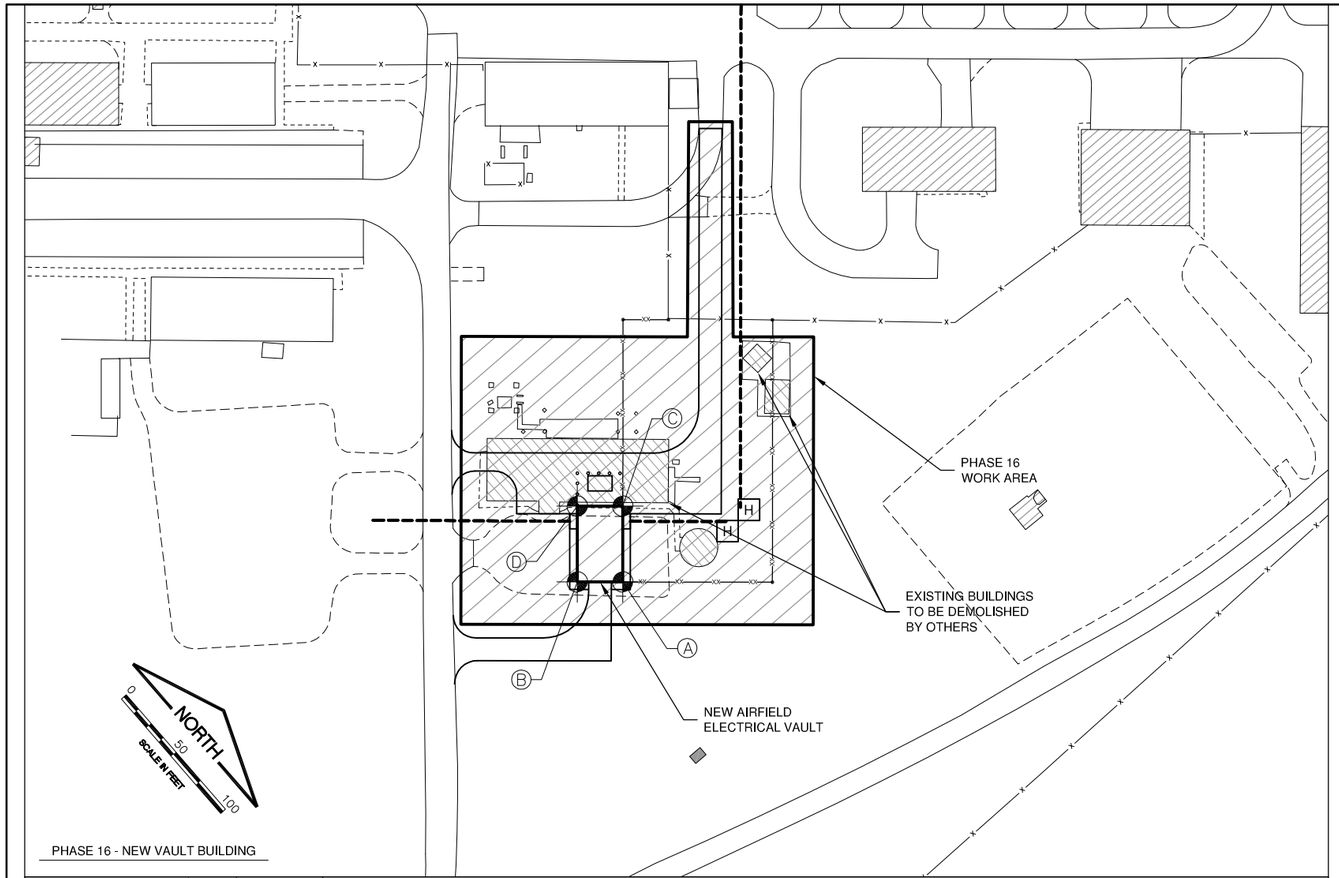
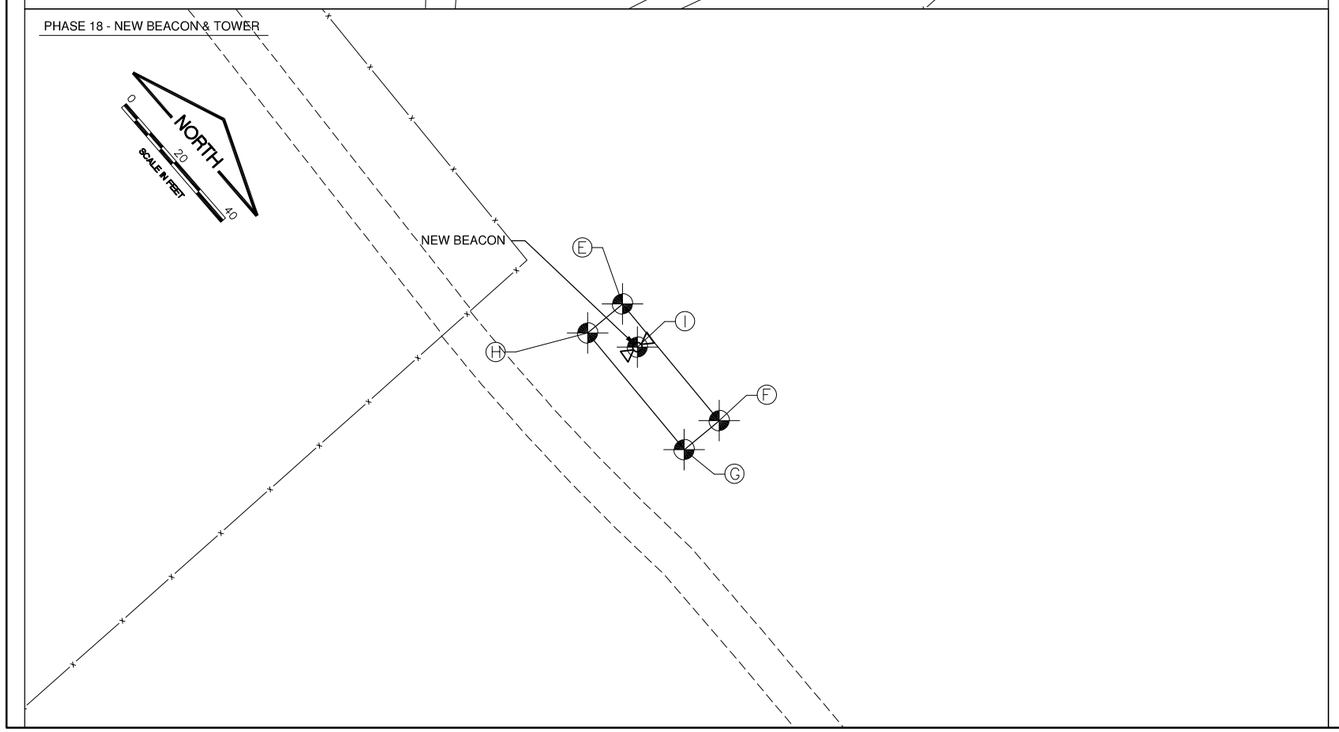



PHASE 16 - NEW VAULT BUILDING




PHASE 18 - NEW BEACON & TOWER

## NOTES:

1. PHASE 16 SHALL INCLUDE THE DEMOLITION OF EXISTING BUILDINGS, CONSTRUCTION OF THE ELECTRICAL VAULT BUILDING WITH THE ASSOCIATED SITE WORK, AS WELL AS ALL DUCT INSTALLATION.
2. PHASE 18 SHALL INCLUDE THE CONSTRUCTION OF THE BEACON TOWER AND BEACON.
3. REMOVALS AND NEW CONSTRUCTION IN THESE PHASES SHALL BE CONCURRENT WITH THE CONSTRUCTION OF THE DUCT RUNS AND CABLING.
4. CONSTRUCTION IN THESE WORK AREAS WILL BE OUTSIDE OF THE RUNWAY/TAXIWAY SAFETY AREAS.

CRITICAL POINTS

| POINT ID | FIELD OBJECT | LATITUDE | LONGITUDE | PROPOSED | STRUCTURE | OVERALL |
|---|---|---|---|---|---|---|
| A | BLDG. CORNER | 40°02'29.25" | 88°16'02.91" | 746.55 | 14.0' | 760.55 |
| B | BLDG. CORNER | 40°02'29.03" | 88°16'03.16" | 746.55 | 14.0' | 760.55 |
| C | BLDG. CORNER | 40°02'29.58" | 88°16'03.39" | 746.55 | 14.0' | 760.55 |
| D | BLDG. CORNER | 40°02'29.35" | 88°16'03.65" | 746.55 | 14.0' | 760.55 |
| E | TOWER CORNER | 40°02'23.30" | 88°17'06.58" | 751.00 | 0.0' | 751.00 |
| F | TOWER CORNER | 40°02'23.29" | 88°17'06.06" | 751.00 | 0.0' | 751.00 |
| G | TOWER CORNER | 40°02'23.17" | 88°17'06.07" | 751.00 | 0.0' | 751.00 |
| H | TOWER CORNER | 40°02'23.18" | 88°17'06.58" | 751.00 | 0.0' | 751.00 |
| I | TOP OF BEACON | 40°02'23.26" | 88°17'06.44" | 751.00 | 50.0' | 776.00 |

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FILE: 1105903-G-1004 REV.dwg
UPDATE BY: Chris Groth
PLOT DATE: 6/12/2012 4:51 PM
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BASE_PROP_ELEC
BASE_PROP_VAULT

**UN051**

REVISIONS

| NUMBER | BY | DATE |
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0 1 2
THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

**WILLARD AIRPORT**
**UNIVERSITY OF ILLINOIS**

**NEW AIRFIELD LIGHTING VAULT**

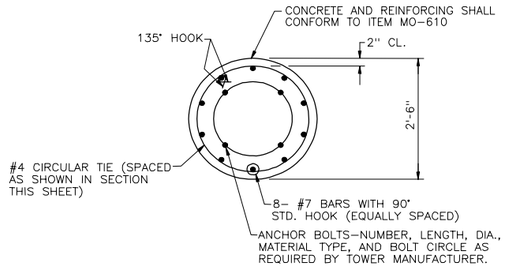
**CONSTRUCTION ACTIVITY PLAN 1**



CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

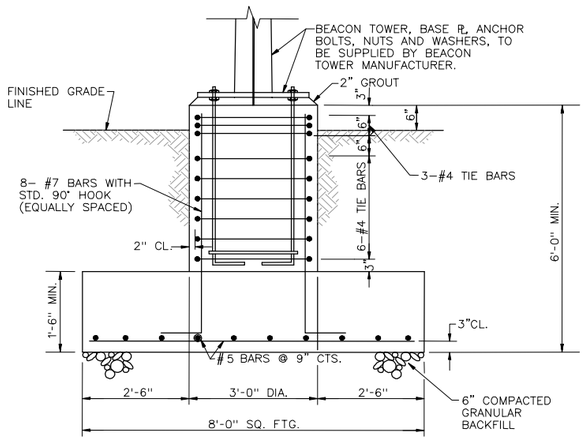
| | |
|---|---|
| DESIGN BY: | KLB |
| DRAWN BY: | CMT |
| CHECKED BY: | CBG |
| APPROVED BY: | CET |
| DATE: | APRIL 20, 2012 |
| JOB No: | 11059-03 |

IL. PROJ. NO. CMI-4100
AIP PROJ. NO. 3-17-0016-XX

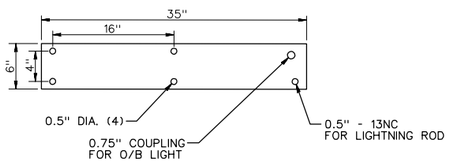



PLAN VIEW
N.T.S.

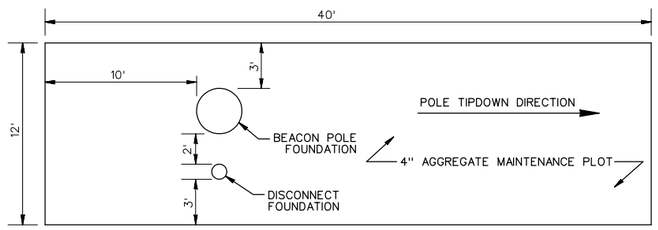
BEACON TOWER FOUNDATION
N.T.S.




SECTION THRU FOUNDATION
N.T.S.

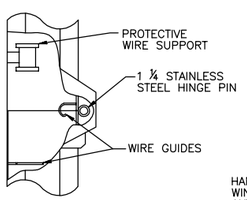



BEACON PLATFORM DETAIL
N.T.S.




BEACON PLOT PLAN
N.T.S.

NOTE:
1. THE MAINTENANCE PLOT SHALL BE SURFACED WITH 4" OF WELL-GRADED CRUSHED ROCK AGGREGATE. GEOTEXTILE MEMBRANE SHALL BE INSTALLED OVER THE SUBGRADE. MEMBRANE SHALL BE NON-WOVEN POLYPROPYLENE FIBERS TO A MINIMUM DENSITY OF 8oz PER SY. TOP OF ROCK SHALL BE 1" BELOW TOP OF CONCRETE FOUNDATION. THIS WORK SHALL BE INCIDENTAL TO THE BEACON PAY ITEM.

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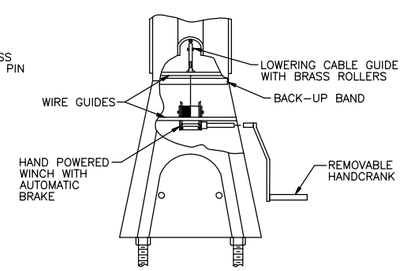
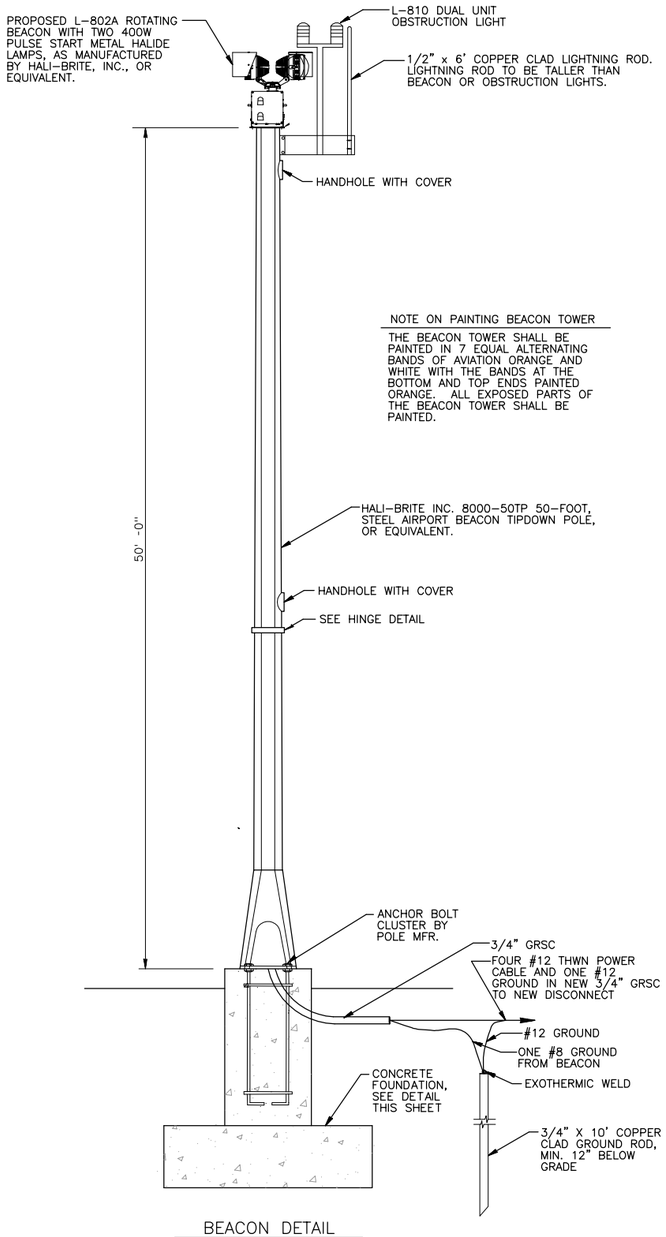



BASE DETAIL
N.T.S.

NOTE:
THE STRUCTURAL DETAILS FOR THE BEACON TOWER FOUNDATION SHOWN ON THE DRAWINGS WERE PREPARED FOR A SYSTEM AS MANUFACTURED BY HALI-BRITE INC., CROSBY, MINNESOTA, 8000-50TP, 50 FOOT TUBULAR STEEL AIRPORT BEACON TIPDOWN POLE. BEACON POLES BY OTHER MANUFACTURERS MAY BE FURNISHED, PROVIDED THE STRUCTURE IS OF THE SAME DESIGN. ANY DIMENSIONAL CHANGES SHALL BE THE DIRECT RESPONSIBILITY OF THE BEACON POLE MANUFACTURER/SUPPLIER, AND ANY REVISIONS TO DETAILS REQUIRED TO ACCOMMODATE A PARTICULAR POLE MANUFACTURER SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION AND CONSTRUCTION. ADDITIONAL COSTS ASSOCIATED WITH DESIGN, FURNISHINGS, AND INSTALLING A BEACON POLE BY AN ALTERNATE MANUFACTURER, INCLUDING ANY FOUNDATION MODIFICATIONS, SHALL BE BORNE BY THE CONTRACTOR.




BEACON DETAIL
N.T.S.

NOTES:
1. CONTRACTOR SHALL PROVIDE ELECTRICAL CONDUITS IN ACCORDANCE WITH ITEM 108 AND MANUFACTURER'S REQUIREMENTS. PROVIDE GROUNDING LUG ON POLE AND BOND TO GROUNDING SYSTEM.
2. CONTRACTOR SHALL PROVIDE NEW L-810, DUAL UNIT, 120V OBSTRUCTION LIGHT WITH A 3/4" HUB. THE LIGHT SHALL BE MOUNTED ON A ¾" CONDUIT AT AN ELEVATION HIGHER THAN THE BEACON. RUN POWER TO OBSTRUCTION LIGHT FROM BEACON VIA A 2/C WITH GROUND, SUNLIGHT RESISTANT SO CORD, UP THE ¾" CONDUIT TO THE OBSTRUCTION LIGHT. INSTALL A SEALING GROMMET WHERE CORD EXITS BEACON. OBSTRUCTION LIGHT SHALL BE ON WHEN BEACON IS OFF.

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FILE: BEACON DETAILS 1 REV.dwg
UPDATE BY: Chris Groth
PLOT DATE: 6/12/2012 4:29 PM

**UN051**

| REVISIONS | | |
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0 1 2
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**WILLARD AIRPORT**
**UNIVERSITY OF ILLINOIS**

**NEW AIRFIELD LIGHTING VAULT**

**BEACON DETAILS 1**



CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

| | |
|---|---|
| DESIGN BY: | WDP |
| DRAWN BY: | CMT |
| CHECKED BY: | CBG |
| APPROVED BY: | CET |
| DATE: | APRIL 20, 2012 |
| JOB No: | 11059-03 |

IL. PROJ. NO. CMI-4100
AIP PROJ. NO. 3-17-0016-XX

SHEET 27 OF 60 SHEETS