

**UN051**

REVISIONS		
NUMBER	BY	DATE

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

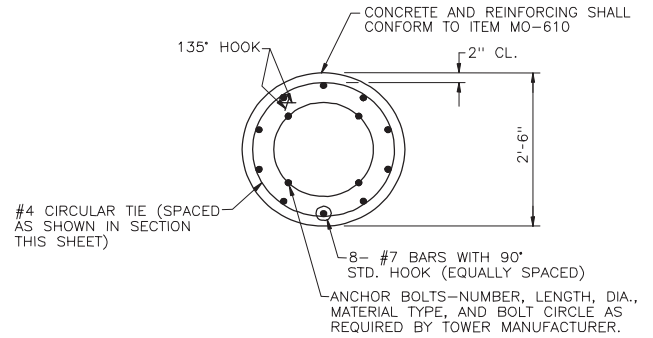
WILLARD AIRPORT  
UNIVERSITY OF ILLINOIS

NEW AIRFIELD LIGHTING VAULT  
BEACON DETAILS 1

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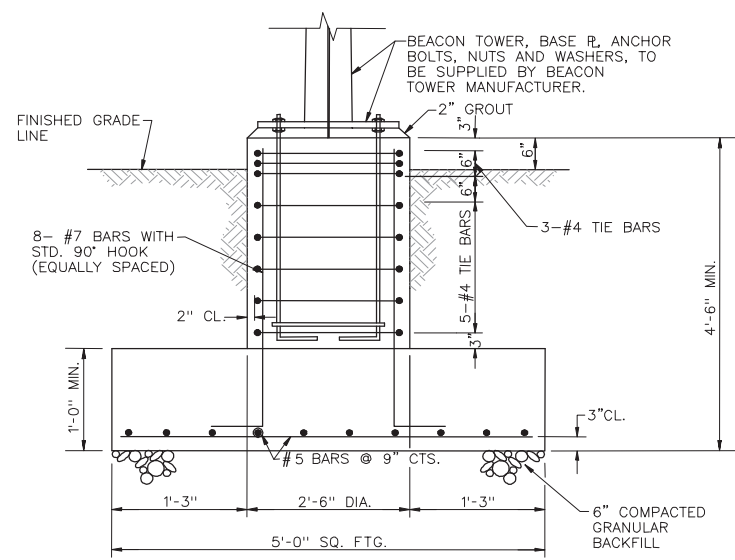
DESIGN BY:	WDP
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	APRIL 20, 2012
JOB No:	11059-03
IL PROJ. NO.	CMI-4100
AIP PROJ. NO.	3-17-0016-XX
SHEET	27 OF 60 SHEETS

**NOTE:**  
 THE STRUCTURAL DETAILS FOR THE BEACON TOWER FOUNDATION SHOWN ON THE DRAWINGS WERE PREPARED FOR A SYSTEM AS MANUFACTURED BY HALL-BRITE INC., CROSBY, MINNESOTA, 8000-25TP, 25 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.

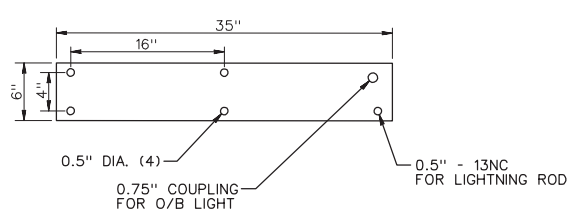


PLAN VIEW  
N.T.S.

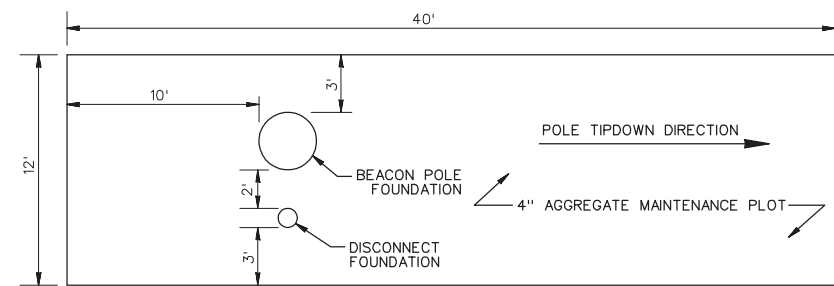
BEACON TOWER FOUNDATION  
N.T.S.



SECTION THRU FOUNDATION  
N.T.S.

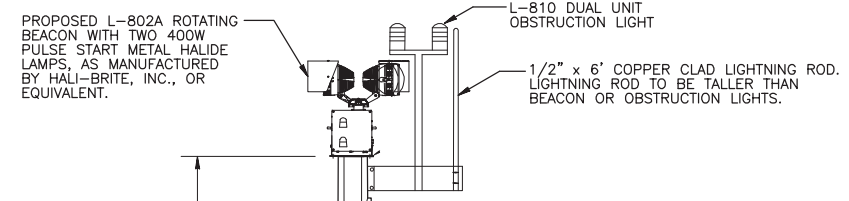
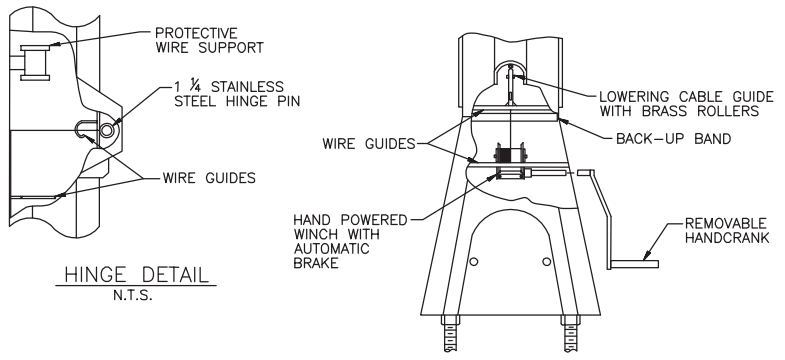


BEACON PLATFORM DETAIL  
N.T.S.

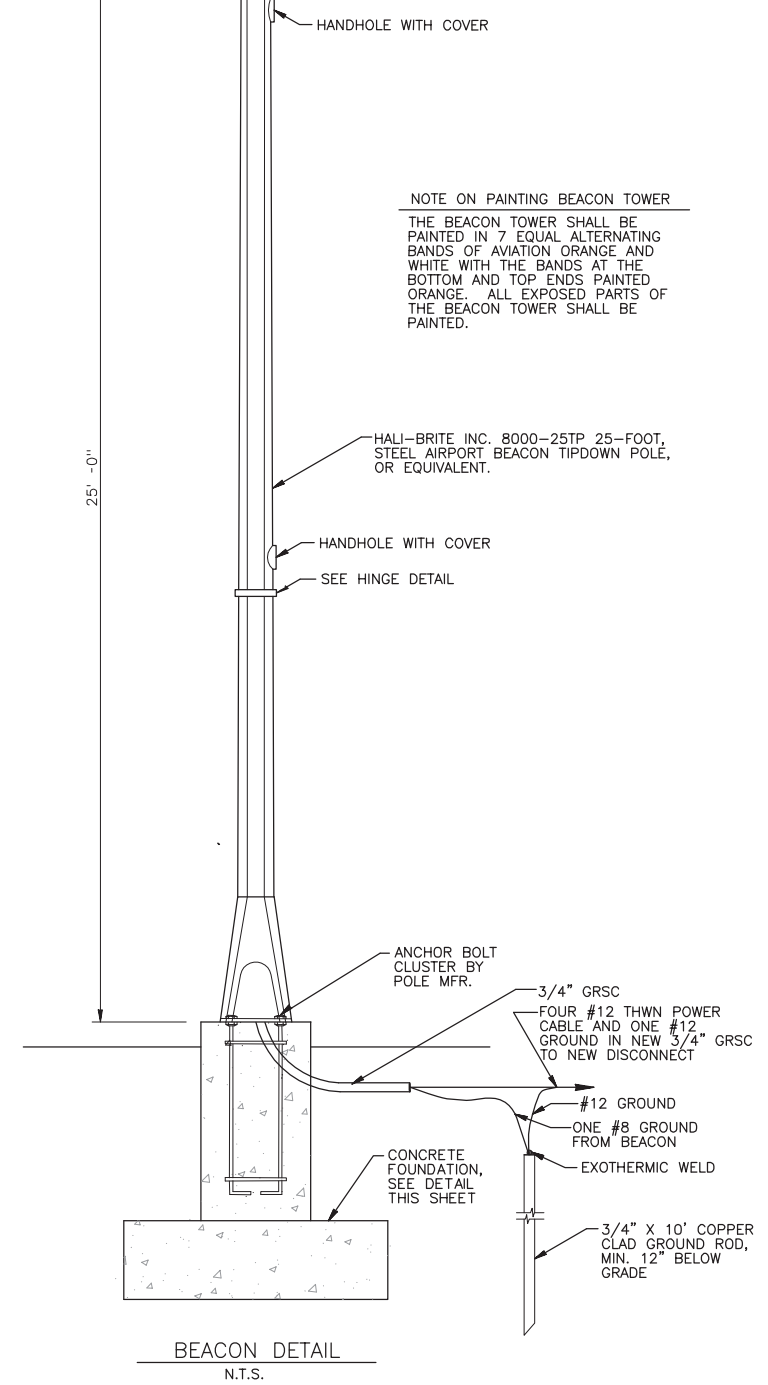


BEACON PLOT PLAN  
N.T.S.

**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.



**NOTE ON PAINTING BEACON TOWER**  
 THE BEACON TOWER SHALL BE PAINTED IN 7 EQUAL ALTERNATING BANDS OF AVIATION ORANGE AND WHITE WITH THE BANDS AT THE BOTTOM AND TOP ENDS PAINTED ORANGE. ALL EXPOSED PARTS OF THE BEACON TOWER SHALL BE PAINTED.



**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 3/4" 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 3/4" CONDUIT TO THE OBSTRUCTION LIGHT. INSTALL A SEALING GROMMET WHERE CORD EXITS BEACON. OBSTRUCTION LIGHT SHALL BE ON WHEN BEACON IS OFF.