DIXON MUNICIPAL AIRPORT CHARLES R. WALGREEN FIELD DIXON, ILLINOIS

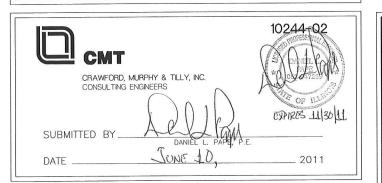
CONSTRUCTION PLANS FOR DIXON MUNICIPAL AIRPORT

REPLACE ROTATING BEACON

ILLINOIS PROJECT: C73-4049 A.I.P. PROJECT: 3-17-0036-B14

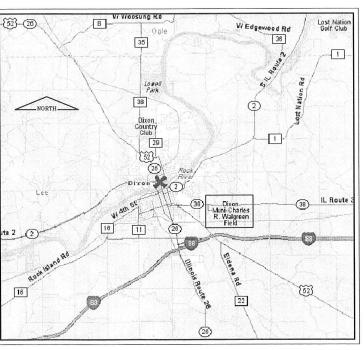
DESIGN INFORMATION

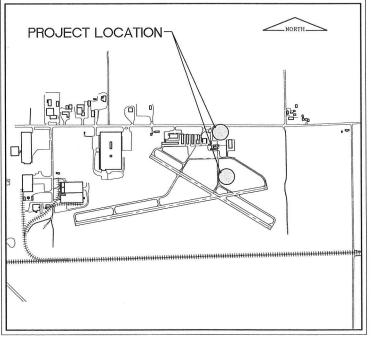
DESIGN AIRCRAFT APPROACH CATEGORY B DESIGN AIRCRAFT GROUP I



CALL J. U. L. I. E. BEFORE EXCAVATING 1-800-892-0123 DIXON MUNICIPAL AIRPORT TOWNSHIP: T 21 N RANGE: R 9 E SECTION: 3 COUNTY: LEE TOWNSHIP: DIXON

JUNE 10, 2011





INDEX TO SHEETS

SUMMARY OF QUANTITIES

DESCRIPTION

AR101510 AIRPORT ROTATING BEACON

AR107812 L-807 W C-12' INTERNALLY LIT

AR800001 RESTORE SEGMENTED CIRCLE

AR110610 ELECTRICAL HANDHOLE

AR101900 BEACON REMOVAL AR150520 MOBILIZATION
AR156531 EROSION CONTROL BLANKET

AR107901 REMOVE WIND TEE AR108966 RELOCATE CABLE - REACON ESTIMATED RECORD

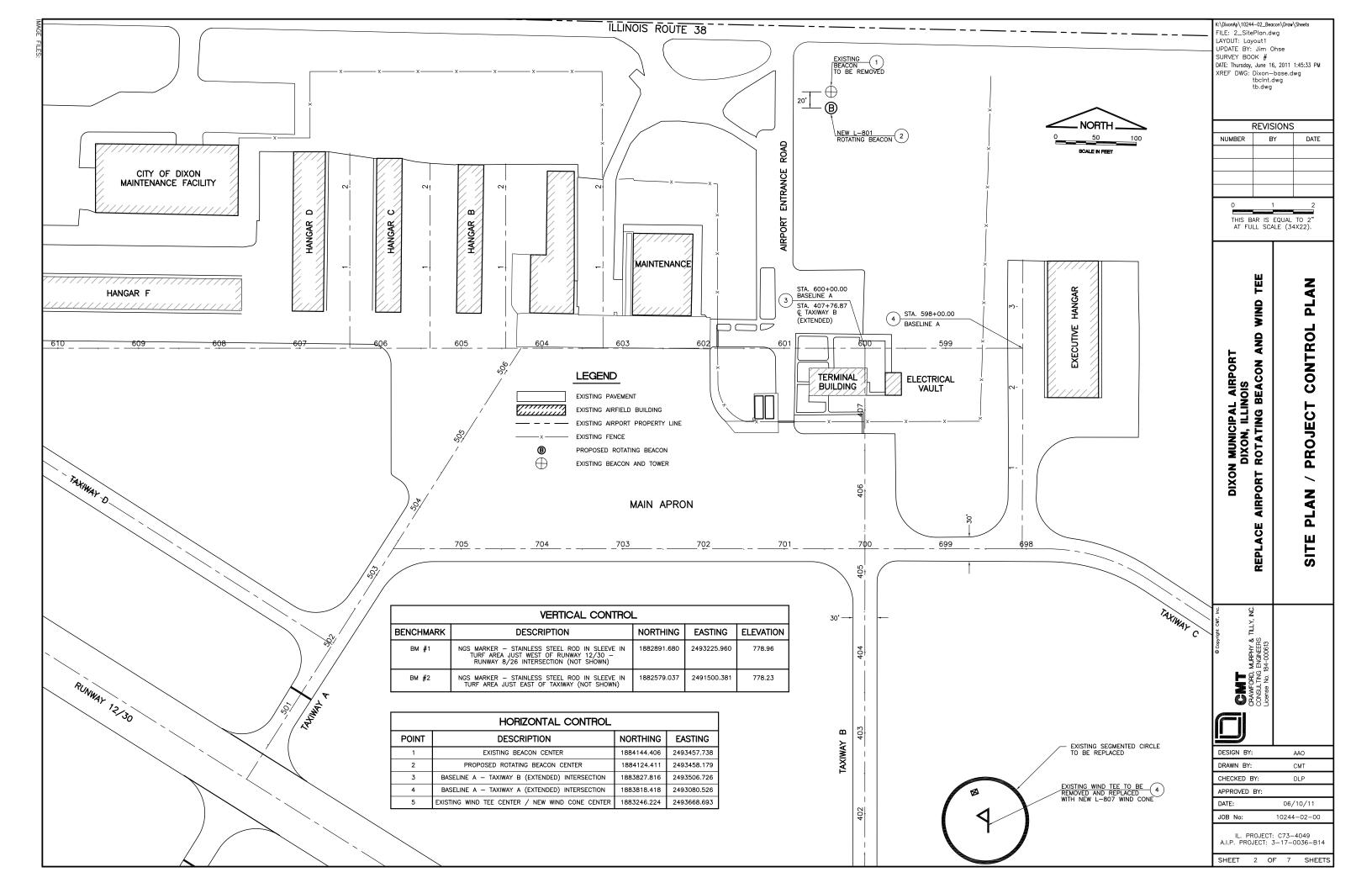
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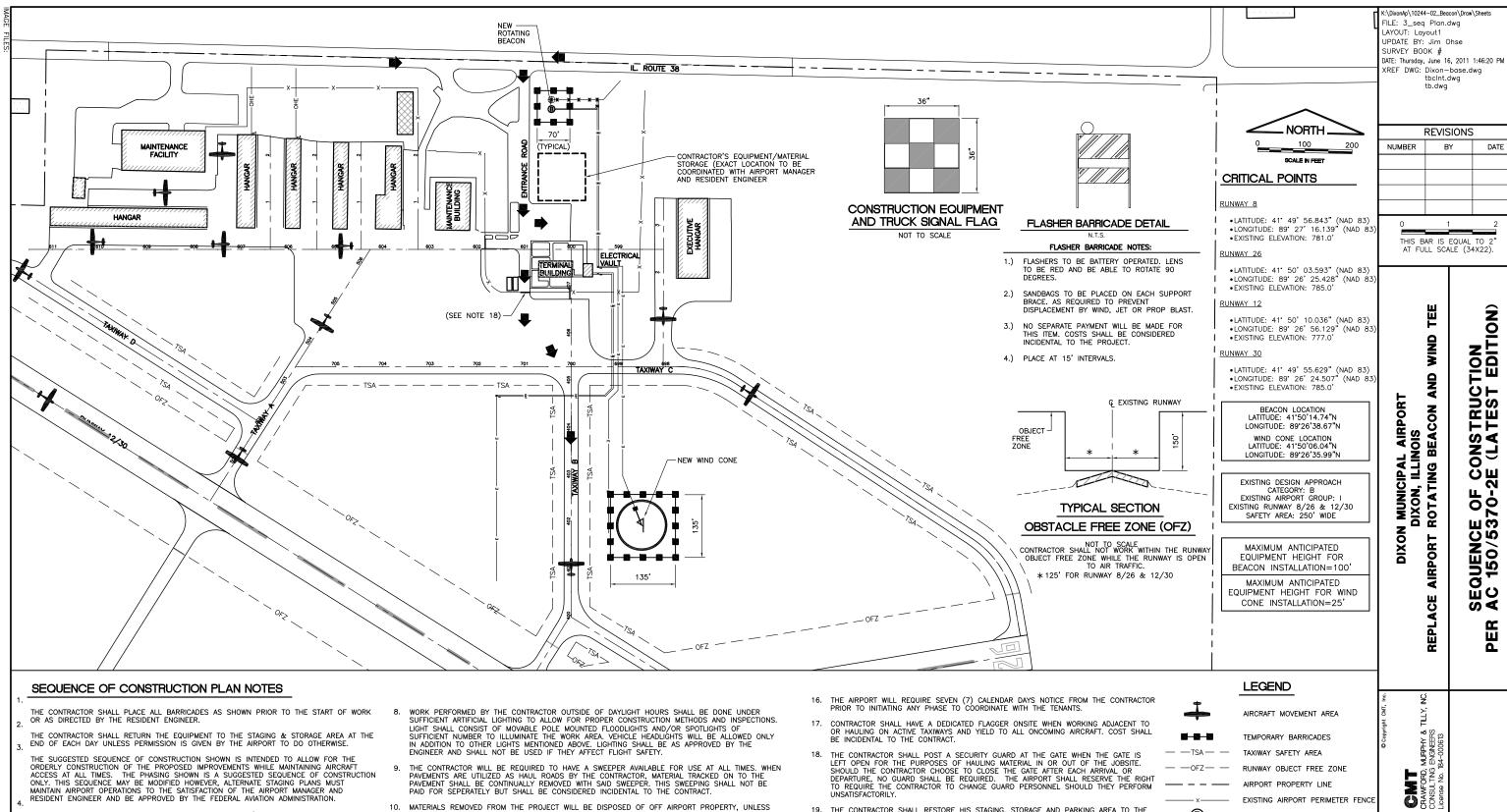
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- 1. COVER SHEET
- 2. SITE PLAN / PROJECT CONTROL PLAN
- 3. SEQUENCE OF CONSTRUCTION PER AC 150/5370-2E (LATEST EDITION)
- 4. EXISTING CONDITIONS / PROPOSED ELECTRICAL IMPROVEMENTS
- 5. EROSION CONTROL PLAN
- 6. ELECTRICAL DETAILS SHEET 1
- 7. ELECTRICAL DETAILS AND SOIL BORING SHEET 2

LOCATION MAP

SITE PLAN





- ALL OPERATIONS SHALL BE IN CONFORMANCE WITH AC 150/5370-2E OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION. (LATEST EDITION).
- THE AIRPORT MANAGER IN CONSULTATION WITH THE RESIDENT ENGINEER SHALL HAVE FINAL SAY IN THE APPROVAL OF THE CONSTRUCTION OPERATING SEQUENCE AS IT RELATES TO PEDESTRIAN, VEHICULAR AND AIRCRAFT SAFETY.
- ALL EXISTING PAVEMENTS, DRIVES OR ANY OTHER AREAS USED AS A HAUL ROAD OR ALL EXISTING PAYEMENTS, DRIVES OR ANY OTHER AREAS USED AS A HAUL ROAD OR STORAGE AREA BY THE CONTRACTOR SHALL BE RESTORED IN KIND TO THEIR PRE—CONSTRUCTION CONDITION OR TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT MANAGER. THE COST OF MAINTAINING, REPAIRING OR CONSTRUCTING THESE PAYEMENTS AND AREAS SHALL BE INCIDENTAL TO THE CONTRACT. EXISTING AREAS OUTSIDE THE PROJECT LIMITS WHICH ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND THE AIRPORT MANAGER.
- THE CONTRACTOR SHALL KEEP ALL TRUCKS, EQUIPMENT AND MATERIALS OFF OF THE EXISTING TAXIWAYS, APRONS AND RUNWAYS OUTSIDE OF THE PROJECT LIMITS EXCEPT AS SHOWN OR WITH THE PRIOR PERMISSION OF THE ENGINEER.

- PAYMENT FOR TRAFFIC CONTROL INCLUDING, BUT NOT LIMITED TO BARRICADES, SIGNING, ETC. SHALL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. TEMPORARY BARRICADES AT 10-FOUT CENTERS SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. BARRICADES SHALL BE WEIGHTED TO PREVENT BLOWING OVER. BARRICADES SHALL HAVE A FLASHING RED LIGHT
- 12. CONTRACTOR WILL BE REQUIRED TO PUT AIRPORT FLAGS AND HAVE BEACON LIGHTS ON ALL EQUIPMENT AT ALL TIMES DURING CONSTRUCTION. SEE FLAG DETAIL, THIS SHEET.
- 13. IN THE CASE OF AN EMERGENCY, CONTRACTOR SHALL NOTIFY AIRPORT MANAGER AND THE RESIDENT
- NO PERSONAL VEHICLES WILL BE ALLOWED ON THE AIRFIELD.
- 15. THE DIXON MUNICIPAL AIRPORT WILL BE IN OPERATION DURING THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL COORDINATE ALL WORK AND ALL CLOSURES WITH THE AIRPORT MANAGER TO MINIMIZE IMPACTS ON AIRPORT OPERATIONS.

- 19. THE CONTRACTOR SHALL RESTORE HIS STAGING, STORAGE AND PARKING AREA TO THE PRE-CONSTRUCTION STATE AT THE COMPLETION OF THE PROJECT. RESTORATION COSTS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 20. AT LEAST ONE AIRPORT ENTRANCE MUST BE OPEN AT ALL TIMES.

SUGGESTED SEQUENCE OF CONSTRUCTION

- COORDINATE RELOCATION OF ANY AIRCRAFT IN WORK AREA (BY OTHERS) WITH RESIDENT ENGINEER AND AIRPORT MANAGER.
- PLACE BARRICADES AS SHOWN.
- . INSTALL NEW BEACON AND CABLE TRENCH PER PLANS AND DETAIL.
- DECOMMISSION & REMOVE EXISTING BEACON AND RELOCATE EXISTING ELECTRICAL CABLE INTO NEW TRENCH, COMMISSION NEW BEACON.
- REMOVE EXISTING WIND TEE AND INSTALL NEW WIND CONE IN PLACE ALONG WITH SEGMENTED CIRCLE.
- REMOVE BARRICADES AND MISCELLANEOUS DEBRIS FROM CONSTRUCTION AREA AND CLEAN PAVEMENTS.
- COORDINATE WITH RESIDENT ENGINEER AND AIRPORT MANAGER SO THAT DISPLACED AIRCRAFT CAN BE RELOCATED TO THEIR ORIGINAL STORAGE AREAS (BY OTHERS).

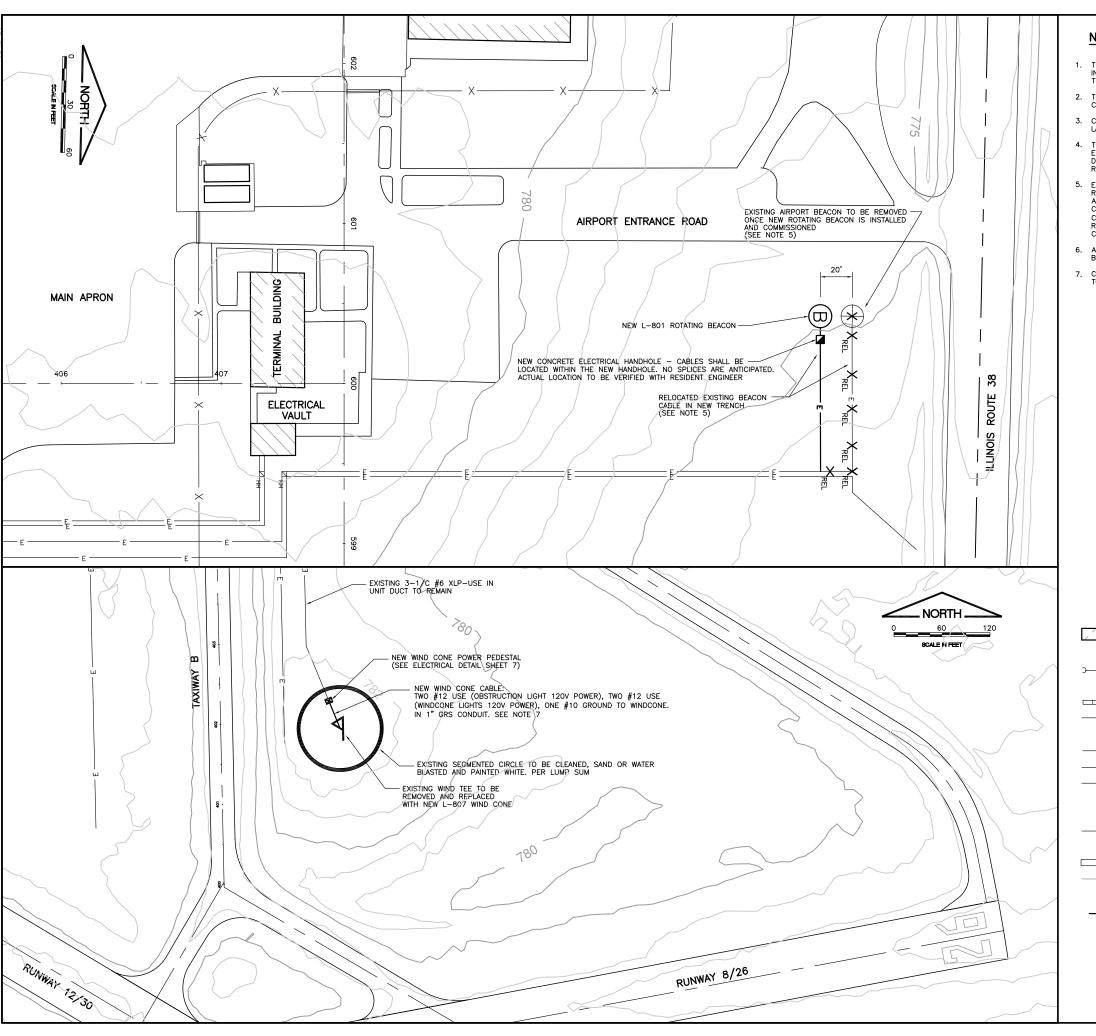
NEW ROTATING BEACON CONTRACTOR'S ACCESS

EXISTING HANGAR / BUILDING

EXISTING PAVEMENT

DESIGN BY AAO DRAWN BY CMT CHECKED B, DLP APPROVED BY 06/10/11 JOB No 10244-02-00 IL. PROJECT: C73-4049 A.I.P. PROJECT: 3-17-0036-B14

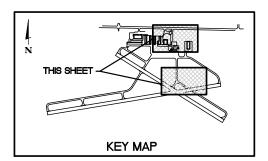
SHEET 3 OF 7 SHEETS



NOTES

- THE ROUTING OF PROPOSED AND EXISTING CABLE SHOWN IS FOR INFORMATION ONLY. THE EXACT ROUTING SHALL BE FIELD VERIFIED WITH THE RESIDENT ENGINEER.
- THE CONTRACTOR SHALL VERIFY THAT THE EXISTING RUNWAY LIGHTING CIRCUIT IS OPERATIONAL AT THE END OF EACH WORKING DAY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF ANY LANDSCAPING AS A RESULT OF CABLE INSTALLATION.
- THE EXISTING BEACON CIRCUIT, FAA CABLES AND OTHER AIRPORT ELECTRICAL CABLES SHALL REMAIN IN SERVICE UNTIL REPLACED AS DIRECTED BY THE ENGINEER. ALL TEMPORARY CABLING AND SPLICING REQUIRED SHALL BE CONSIDERED INCIDENTAL TO CONTRACT.
- EXISTING ELECTRICAL CABLE AND BEACON DISCONNECT SHALL BE RELOCATED ONCE THE INSTALLATION OF THE NEW L-801 ROTATING BEACON AND THE BEACON FOUNDATION IS COMPLETE. THE CONTRACTOR SHALL COMPLETE THIS RELOCATION IN ONE WORKING DAY. THE EXISTING CABLE CONSISTS OF 3-1/C #6 XLP-USE, 600V CABLE IN UNIT DUCT. UPON RELOCATING THE CABLE AND DISCONNECT, THE CONTRACTOR SHALL COMPLETE THE REMOVAL OF THE EXISTING BEACON.
- 6. ANY NECESSARY OF THE SHIELDING LIGHTS FOR THE NEW BEACON SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- CONTRACTOR SHALL DISCONNECT EXISTING POWER FEED AND RECONNECT TO NEW WINDCONE DISCONNECT.

THE INFORMATION SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM AVAILABLE RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATEVER IN RESPECT TO THE ACCURACY OR SUFFICIENCY OF THE INFORMATION AND THERE IS NO GUARANTEE EITHER EXPRESSED OR IMPLIED THAT THE CONDITIONS INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE FIELD. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND ACQUAINT HIMSELF WITH THE EXISTING CONDITIONS. EXISTING CONDITIONS.



LECEND

	<u>LEGEND</u>	
///////	EXISTING HANGAR/BUILDING	
□ ◎ [EXISTING INLET/MANHOLE/END SECTION	
>>	EXISTING STORM SEWER	
\(\rightarrow \)	EXISTING ELEVATED RETROREFLECTIVE MARKER	
	EXISTING TRENCH DRAIN	
x	EXISTING FENCE	
0	EXISTING UNDERDRAIN CLEANOUT	
— —UD→ —	EXISTING UNDERDRAIN	
OHE	EXISTING OVERHEAD ELECTRIC LINE	
—— Е ——	EXISTING ELECTRIC CABLE	
□ _ε	EXISTING ELECTRIC METER	
\Box_{G}	EXISTING GAS METER	
	EXISTING GAS LINE	
X	EXISTING ITEM TO BE REMOVED	
	EXISTING CONCRETE FLUME	
775	EXISTING CONTOUR	
B	NEW ROTATING BEACON	
—E—	RELOCATED EXISTING BEACON CABLE IN NEW TREN (CABLE CONSISTS OF 3/C #6 XLP-USE, 600V UG CABLE IN UNIT DUCT)	
(\mathcal{A})	NEW L-807 WIND CONE	
	NEW ELECTRICAL HANDHOLE	

RELOCATE EXISTING ELECTRICAL CABLE

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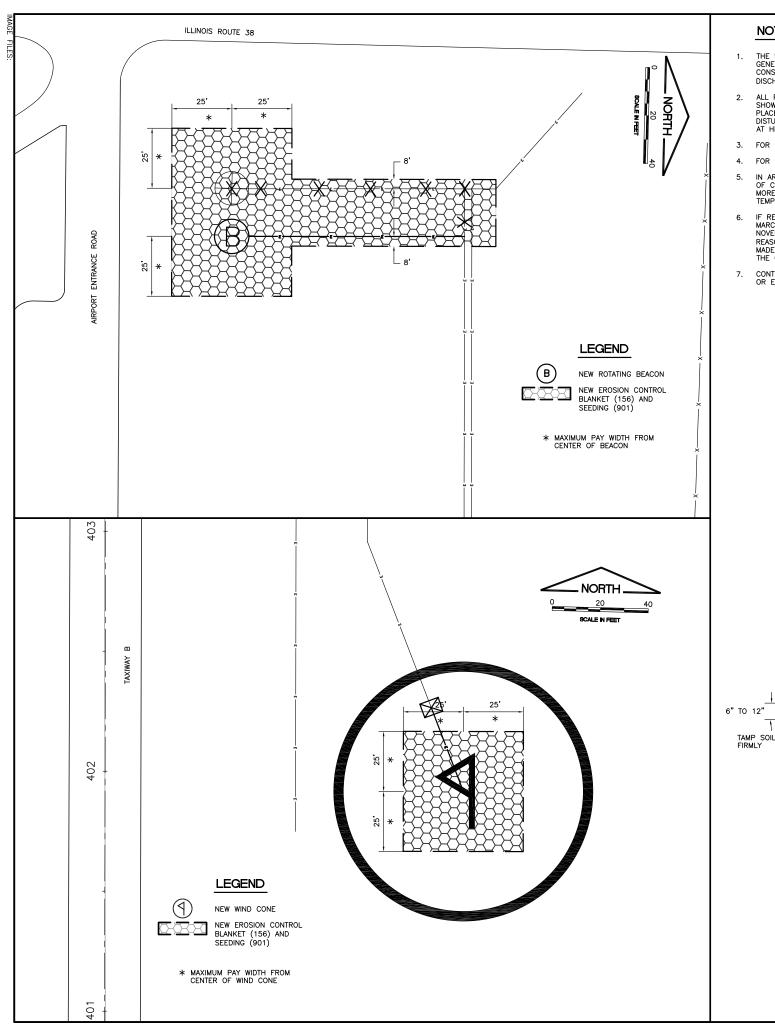
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DIXON

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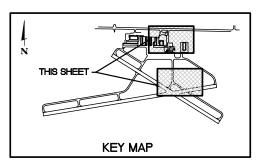
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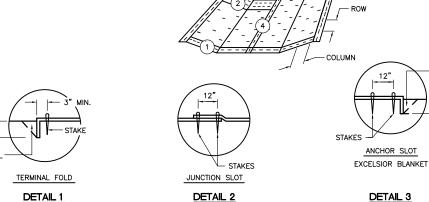
SHEET 4 OF 7 SHEETS

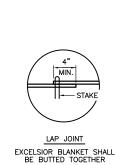


NOTES

- THE SITE DISTURBANCE IS LESS THAN 1 ACRE. THE PROJECT DOES NOT REQUIRE NPDES GENERAL PERMIT NO. 2. THE CONTRACTOR WILL STILL BE REQUIRED TO USE BEST CONSTRUCTION PRACTICES TO COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS FOR CONSTRUCTION SITE ACTIVITIES.
- ALL PROJECT AREAS, INCLUDING STOCKPILES, ABANDONED HAUL ROADS AND STAGING AREAS, AS SHOWN ON THE PLANS OR COORDINATED IN THE FIELD, SHALL HAVE 4 INCHES OF TOPSOIL PLACED, BE SEEDED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS. AREAS DISTURBED OUTSIDE THE PROJECT LIMITS WILL BE SEEDED AND MULCHED BY THE CONTRACTOR AT HIS COST AND RESTORED TO ORIGINAL CONDITIONS.
- 3. FOR DETAILS SEE THIS SHEET.
- FOR LANDSCAPING LIMITS SEE THIS SHEET.
- IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION, AND IN AREAS WHERE WORK WILL BE TEMPORARILY CEASED FOR 14 DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE 14TH DAY AFTER WORK HAS CEASED. TEMPORARY STABILIZATION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- IF REQUIRED TEMPORARY EROSION CONTROL SEED SHALL CONSIST OF SPRING OATS FROM IF REQUIRED LEMPORARY EROSION CONTROL SEED SHALL CONSIST OF SPRING OATS FROM MARCH 1ST TO JUNE 30TH AND WINTER WHEAT OR CEREAL RYE FROM JULY 1ST THRU NOVEMBER 15TH. THE SEED SHALL BE APPLIED BY HAND BROADCASTING TO ACHIEVE A REASONABLE UNIFORM COVERAGE AT A RATE OF 100 LB/ACRE. NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY EROSION CONTROL SEEDING. IT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- CONTRACTOR SHALL PROVIDE CONCRETE WASHOUT BOX FOR ALL CONCRETE READY MIX TRUCKS OR EACH READY MIX TRUCK SHALL BE EQUIPPED WITH A WASH OUT SYSTEM.







TAMP SOIL FIRMLY

DETAIL 4

EROSION CONTROL BLANKET DETAIL

EROSION CONTROL BLANKET NOTES

- 1. STAKES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2 APART AND IN ROWS APPROXIMATELY 3 APART. APPROXIMATELY 175 STAKES ARE REQUIRED PER 4'X 225' ROLL OF MATERIAL AND 125 STAKES ARE REQUIRED PER 4'X 150' ROLL OF MATERIAL.
- EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE.DO NOT STRETCH.
- 3. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAKED AT APPROXIMATELY 12" INTERVALS.

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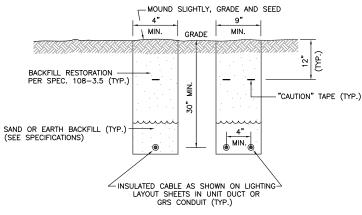
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SHEET 5 OF 7 SHEETS

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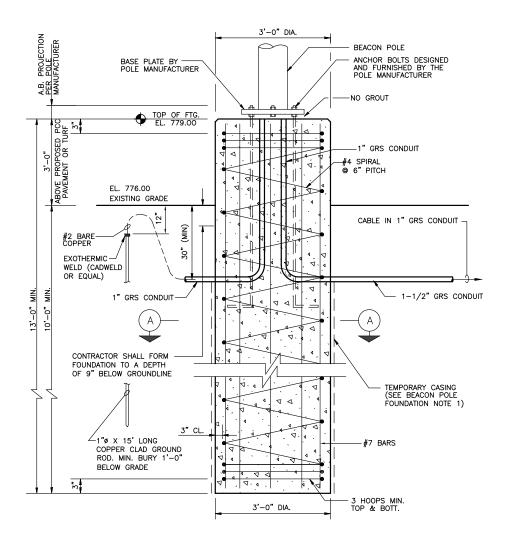
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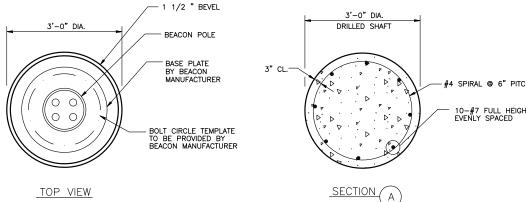
TRENCH DETAIL NOT TO SCALE

NOTES

- 1. TRENCHES WITH MORE THAN 2 CABLES SHALL BE INCREASED 3" IN WIDTH FOR EACH ADDITIONAL CABLE. IF SPECIFIED ON PLANS, TWO PARALLEL TRENCHES MAY BE CONSTRUCTED.
- 2. DEPTH OF TRENCHES SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- 3. SAND BACKFILL SHALL BE USED IF THE EXISTING SOIL DOES NOT MEET THE BACKFILL
- 4. ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL.



SECTION THRU FNDTN.





LUMINAIRE REQUIREMENTS

- LUMINAIRE SHALL MEET FEDERAL AVIATION ADMINISTRATION SPECIFICATIONS FOR OBSTRUCTION LIGHTING (L-810).
- 2. CAST ALUMINUM HOUSING.
- 3. ONE PIECE 360° RED, HEAT RESISTANT GLASS FRESNEL GLOBE. PROVIDE
 TOGGLE TYPE LATCHES AND CLAMPING
 TO SECURE GLOBES. PROVIDE SAFETY CHAINS ON GLOBES.
- 4. OBSTRUCTION LIGHTS SHALL BE L.E.D. TYPE AS MANUFACTURED BY DIA LIGHT
- 5. PROVIDE INTERNAL PROVISIONS FOR GROUNDING.
- 6. INSTALL OBSTRUCTION LIGHT AS RECOMMENDED BY BEACON

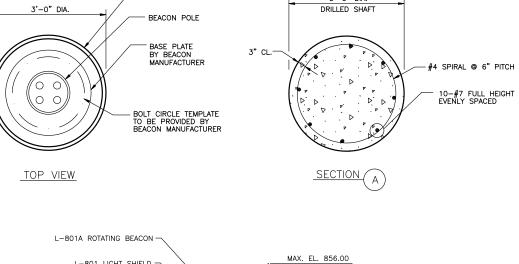
BEACON POLE FOUNDATION NOTES

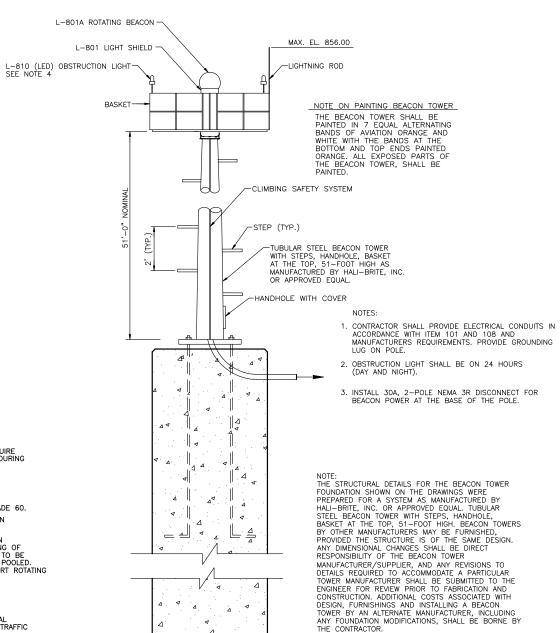
- 1. FOUNDATION FOR BEACON SHALL BE BORED/DRILLED.
 CONSTRUCTION OF DRILLED LIGHT POLE FOUNDATIONS MAY REQUIRE
 THE USE OF A TEMPORARY CASING, THAT SHALL BE REMOVED DURING
 THE CONCRETE POURING PROCESS. PROJECT SOILS REPORT
 AVAILABLE UPON REQUEST.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 P.S.I. AT 14 DAYS.
- 3. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.
- 4. BEACON FOUNDATION SHALL BE MONOLITHIC. NO CONSTRUCTION JOINTS WILL BE PERMITTED.
- 5. IF REQUIRED THE CONTRACTOR SHALL PROVIDE AND MAINTAIN IN OPERATION PUMPING EQUIPMENT FOR THE COMPLETE DEWATERING OF FOUNDATION EXCAVATION. NO STRUCTURE SHALL BE PERMITTED TO BE CONSTRUCTED IN WHICH ANY AMOUNT OF WATER FLOWS OR IS POOLED. THE COST OF DEWATERING SHALL BE INCIDENTAL TO THE AIRPORT ROTATING PERCON IN PLACE DAY ITEM. BEACON, IN PLACE PAY ITEM.

BEACON POLE FOUNDATION DESIGN

DESIGN LOAD: AASHTO-STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRIES AND TRAFFIC SIGNALS, 2001.

DESIGN WIND SPEED = 100 MPH





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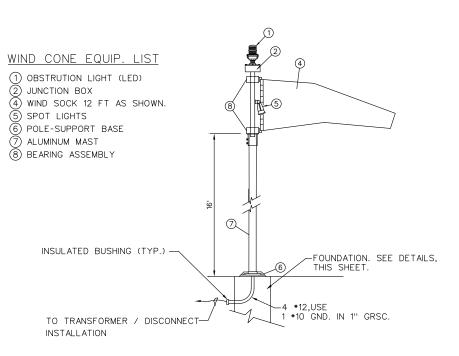
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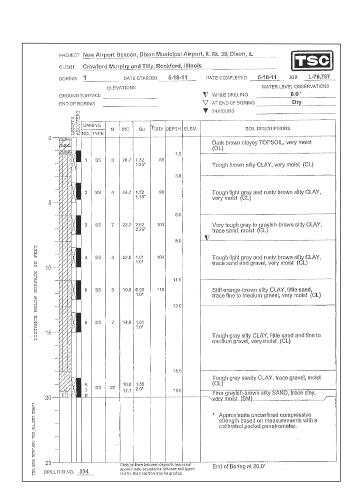
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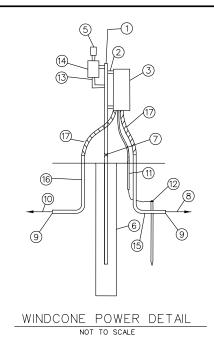
SHEET 6 OF 7 SHEETS

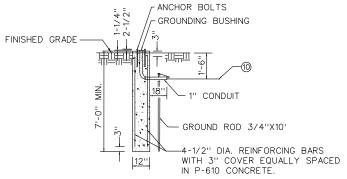
BEACON DETAIL

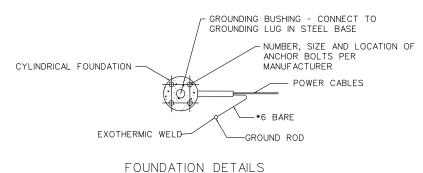


POLE AND HINGE ARRANGEMENT PER WIND CONE MANUFACTURER

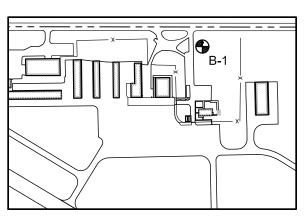








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SOIL BORING SITE MAP

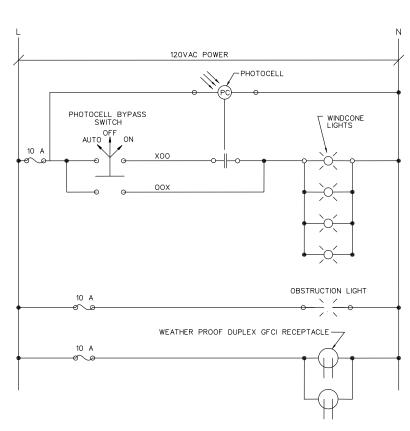
WIND CONE POWER LEGEND

- (1) 2" GALVANIZED STEEL SUPPORT POST WITH END CAPS (TYP. OF 2).
- (2) STRUT-TYPE SUPPORT, UNISTRUT 2000, OR EQUIVALENT (TYP. OF 5).
- (3) HEAVY-DUTY 30A, 600V UNFUSED DISCONNECT IN NEMA 3R ENCLOSURE. PROVIDE GROUND LUGS. PROVIDE LABLEL READING: "CAUTION: 480 VOLTS"
- (5) WINDCONE PHOTOCELL, TORK MODEL #2101, OR EQUIVALENT. (NOTE: PHOTOCELL DPERATION IS AS FOLLOWS: DURING THE DAYTIME THE WINDCONE LIGHTS ARE OFF AND THE OBSTRUCTION LIGHT IS ON. AFTER DARK THE WINDCONE LIGHTS AND OBSTRUCTION LIGHT ARE ON.)

IMPORTANT NOTE:

LOCATE DISCONNECT/ TRANSFORMER/ PHOTOCELL INSTALLATION SUCH THAT WINDCONE LIGHT WILL NOT ADVERSELY AFFECT THE PHOTOCELL OPERATION.

- (6) 12" DIAMETER X 4'-0" DEEP (MIN.) CONCRETE FOUNDATION. (TYP. OF TWO)
- 7 FRANGIBLE COUPLINGS (TYP. OF 2).
- (8) EXISTING TWO #6 USE. EXISTING ONE #6 GROUND IN 1" UNIT DUCT TO VAULT.
- 9 INSULATED BUSHING.
- (0) TWO #12 USE (OBSTRUCTION LIGHT 120V POWER), TWO #12 USE (WINDCONE LIGHTS 120V POWER), ONE #10 GROUND TO WINDCONE IN 1" GRS CONDUIT.
- (1) #8 GROUND WIRE IN½" PVC CONDUIT TO GROUND ROD.
- (2) %" DIAMETER X 10' LONG COPPERCLAD GROUND ROD. MIN. BURIAL: 1-0".
 BOND GROUND WIRES TO GROUND ROD USING EXOTHERMIC WELD, CADWELD, OR
 EQUIVALENT. CLAMPED CONNECTIONS SHALL NOT BE ACCEPTABLE.
- (3) TWO #12 USE (SEE WINDCONE SCHEMATIC), ONE #10 GROUND IN 4" GRS CONDUIT.
- NEMA 4 JUNCTION BOX SIZED AS REQUIRED TO HOUSE THREE 10A IN-LINE FUSES. PHOTOCELL BYPASS SELECTOR SWITCH AND WEATHERPROOF GFCI CONVENIENCE RECEPTACLE. (SEE WINDCONE SCHEMATIC.) (4)
- (5) 1-1/2" GRS CONDUIT TO 1'-6" BELOW GRADE.
- (6) 1" GRS CONDUIT TO 1'-6" BELOW GRADE,
- 1 LIQUIDTITE FLEXIBLE CONDUIT.



WIND CONE SCHEMATIC

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MIN AND NN MUNICIPAL AIRPORT
DIXON, ILLINOIS
F ROTATING BEACON AN ETAIL 180E SOP E と ら い

AND

DIXON AIRPORT REPLACE

DESIGN BY ATI/AB DRAWN BY JRO CHECKED BY: DLP APPROVED BY DATE: 06/10/11 JOB No 10244-02-00

IL. PROJECT: C73-4049 A.I.P. PROJECT: 3-17-0036-B14

SHEET 7 OF 7 SHEETS