



KEYED NOTES

- 1 EXISTING VAULT TO BE REMOVED.
- 2 EXISTING ELECTRICAL HANDHOLE.
- 3 EXISTING APRON LIGHT.

(19)-

- 4 EXISTING AIR TRAFFIC CONTROL TOWER.
- 5 EXISTING ARFF (F/C/R) BUILDING WITH APRON LIGHTING ON/OFF CONTROL STATION.
- 6 EXISTING APRON LIGHTING CONTROL PANEL.
- 7 EXISTING VAULT UTILITY TRANSFORMER TO REMAIN.

(12)-

SECTION A

- 8 EXISTING UTILITY MANHOLE.
- 9 EXISTING APRON LIGHT 240V POWER WIRING (APRON LIGHTS #1 THROUGH #5 AND #7 THROUGH #9) AND ON/OFF CONTROL WIRING FROM ARFF CONTROL STATION.
- 10 EXISTING APRON LIGHT #6 240V POWER WIRING.
- 11 NEW WIRING IN NEW 3" GRS CONDUIT:
- THREE #4 TYPE USE (240V POWER WIRING TO APRON LIGHTS #1, #2, #3), ONE #8 GROUND.
- THREE #4 TYPE USE (240V POWER WIRING TO APRON LIGHTS #7, #8, #9), ONE #8 GROUND.
- THREE #8 TYPE USE (240V POWER WIRING TO APRON LIGHTS #4 & #5), ONE #8 GROUND.
- -5/C #18 CONTROL CABLE.

SPLICE NEW WIRING TO EXISTING WIRING IN EXISTING HANDHOLE. PROVIDE LABELS ON WIRING IDENTIFYING CIRCUITS.

- 12 NEW WIRING IN NEW 2" GRS CONDU
- THREE #8 TYPE USE (240V POWER WIRING TO APRON LIGHT #6), ONE #8 GROUND.
- TWO #10 TYPE USE (120V POWER TO HANGAR #1 OBSTRUCTION LIGHTS), ONE #10 GROUND.

  SPLICE NEW WIRING TO EXISTING WIRING IN EXISTING HANDHOLE #7. PROVIDE LABELS ON WIRING IDENTIFYING CIRCUITS.
- 13 FOUR #1/0 TYPE USE (120/240V, 3-PHASE, 4-WIRE, HIGH "B" LEG) IN NEW 2" GRS CONDUIT. CONNECT TO SECONDARY OF EXISTING TRANSFORMER.
- 14 APRON LIGHTING AND HANGAR #1 PANELBOARD, SERVICE ENTRANCE RATED, 30-POLE, 150A,

120/240V, THREE PHASE, 4-WIRE, HIGH "B" LEG, IN NEMA 3R ENCLOSURE. BOND NEUTRAL BAR TO GROUND BAR IN PANELBOARD. PROVIDE SURGE PROTECTIVE DEVICE. SEE SCHEDULE, SHEET #42. PROVIDE LABEL READING:

ARFF APRON LIGHTS,
AIR CARRIER APRON LIGHTS &
G.A. APRON LIGHTS PANELBOARD
150A, 120/240V, 3—PHASE, 4—WIRE
HIGH "B" LEG. DO NOT INSTALL
ANY 1—POLE (120V) CKT BKRS
ON THE "B" PHASE

- 15 APRON LIGHTING CONTROL PANEL IN HINGED COVER NEMA 4 ENCLOSURE. PROVIDE DOOR MOUNTED SELECTOR SWITCHES SHOWN. SEE SCHEMATIC, SHEET #42, FOR ADDITIONAL INFORMATION.
- 16 EXISTING 120V WIRING IN CONDUIT TO HANGAR #1 OBSTRUCTION LIGHTS.
- 17 2" GRS CONDUITS FOR THE FOLLOWING WIRING:
- -THREE #8 THWN (240V POWER WIRING TO APRON LIGHTS #1, #2, #3), ONE #8 GROUND.
- THREE #8 THWN (240V POWER WIRING TO APRON LIGHTS #7, #8, #9), ONE #8 GROUND.
- THREE #8 THWN (240V POWER WIRING TO APRON LIGHTS #4, #5, #6), ONE #8 GROUND.
- $-\,\mbox{TWO}$  #10 THWN (120V POWER TO HANGAR #1 OBSTRUCTION LIGHTS), ONE #10 GROUND.
- 18  $3^{\circ}$  concrete filled galvanized steel support post, painted with minimum two coats yellow epoxy paint.

- TWO #12 THWN (APRON LIGHTING 120V CONTROL POWER), ONE #12 GROUND.

- 19 12" DIAMETER BY 48" DEEP CONCRETE FOOTING.
- 20 GALVANIZED STEEL STRUT-TYPE FRAMING, UNISTRUT P-1000, OR EQUIVALENT, AS NEEDED.
- 21 #6 Grounding electrode conductor (GEC) in  $1/2^{\circ}$  Schedule 40 PVC conduit to minimum  $1'-0^{\circ}$  Below grade.
- 22 3/4" DIAMETER X 10 FOOT LONG COPPERCIAD GROUND ROD. CONNECTION TO GEC SHALL BE VIA EXOTHERMIC WELD, CADWELD OR EQUIVALENT.
- 23 EXISTING PANELBOARD FEEDING HANGAR #1 OBSTRUCTION LIGHTS.
- 24 PHOTOCELL, ORIENTED NORTH.

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## UN051

| REVISIONS |    |      |
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| NUMBER    | BY | DATE |
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| 0         | 1  | 2    |

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

NEW AIRFIELD LIGHTING VAULT

**EXISTING** 

AIRPORT OF ILLINOIS

WILLARD / UNIVERSITY

COOPTIGN OWT, Inc.

CRAWFORD, MURPHY & TILY, NC.
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 45 OF 60 SHEETS