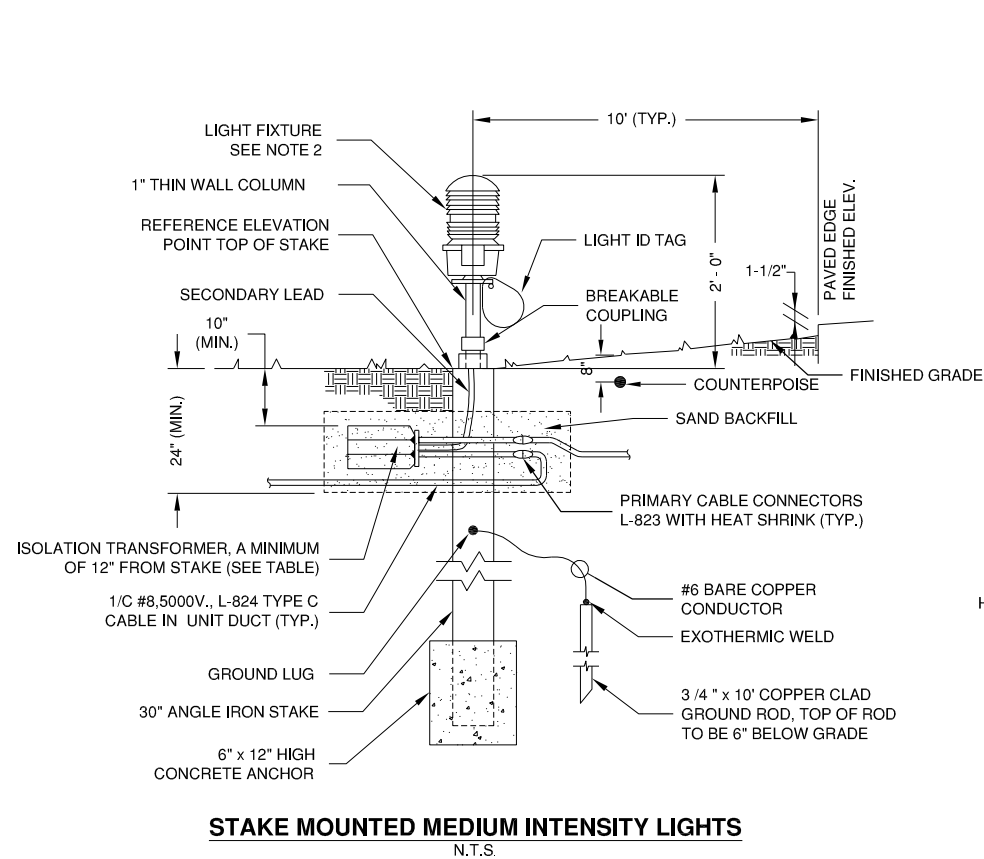
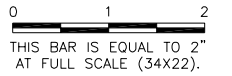


VE049

REVISIONS		
NUMBER	BY	DATE



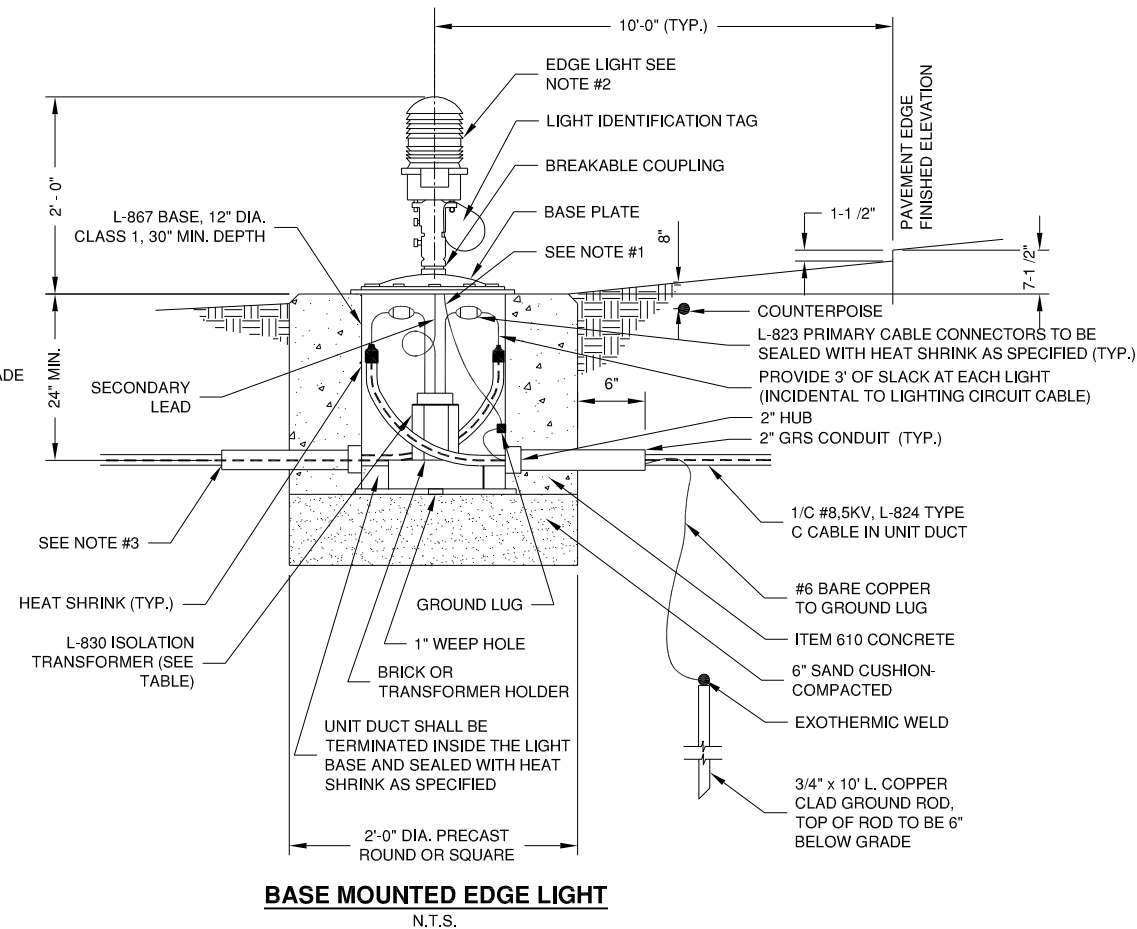
STAKE MOUNTED MEDIUM INTENSITY LIGHTS
N.T.S.

NOTES

- CABLES SHALL NOT BE LESS THAN 24" DEEP. ENCASE ISOLATION TRANSFORMER, L-823 CONNECTORS, AND 2 FOOT MINIMUM OF L-824 CABLE SLACK IN SAND BACKFILL.
- LIGHT FIXTURES SHALL BE AS INDICATED IN THE TABLE ON THIS SHEET AND SHALL BE CONTINGENT UPON THE AWARD OF EACH ADDITIVE ALTERNATE.
- UNIT DUCT SHALL BE TERMINATED AT L-823 CONNECTORS AND SEALED TO MAKE WATERTIGHT.
- DO NOT INSTALL ANGLE IRON STAKE BY DRIVING. MAKE ELECTRICAL CONNECTIONS AND BACKFILL AROUND THE STAKE WITH EARTH PASSING THE 1-INCH SIEVE. COMPACT AS REQUIRED TO PROVIDE FIRM SUPPORT FOR STAKE, AND TO THE SATISFACTION OF THE RESIDENT ENGINEER.
- COUNTERPOISE SHALL BE INSTALLED HALF WAY BETWEEN THE NEW EDGE LIGHT CIRCUIT AND THE EDGE OF THE RUNWAY/TAXIWAY PAVEMENT.
- SEE VEGETATION CONTROL RING DETAIL ON ELECTRICAL DETAILS SHEET 2 TO BE PLACED AROUND EACH LIGHT.

LIGHT DESCRIPTION	FAA LIGHT FIXTURE TYPE	LAMP DESCRIPTION	TRANSFORMER TYPE	WATTAGE	TRANSFORMER PRI/SEC	CONTRACT
MEDIUM INTENSITY RUNWAY LIGHT	L-861	INCAN. 6.6A	L-830-1	30/45	6.6A/6.6A	BASE BID
MEDIUM INTENSITY RUNWAY LIGHT (LED)	L-861(L)	LED W/HEATER	L-830-1	30/45	6.6A/6.6A	ADD. ALT. 3
MEDIUM INTENSITY TAXIWAY LIGHT	L-861T	INCAN. 6.6A	L-830-1	30/45	6.6A/6.6A	ADD. ALT. 1
MEDIUM INTENSITY TAXIWAY LIGHT (LED)	L-861T(L)	LED W/HEATER	L-830-1	30/45*	6.6A/6.6A	ADD. ALT. 3

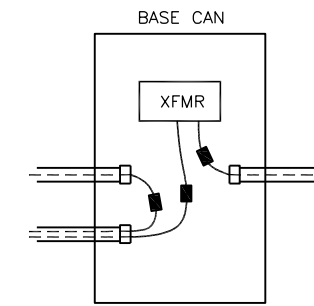
*NOTE: WATTAGE MAY BE 20/25 AS RECOMMENDED BY THE MANUFACTURER.



BASE MOUNTED EDGE LIGHT
N.T.S.

NOTES

- THE LIGHT FIXTURE SHALL BE BONDED TO THE LIGHT BASE INTERNAL GROUND LUG VIA A #6 AWG STRANDED COPPER WIRE RATED FOR 600 VOLTS WITH GREEN XHHW INSULATION. THE GROUND WIRE LENGTH SHALL BE SUFFICIENT TO ALLOW THE REMOVAL OF THE LIGHT FIXTURE FROM THE LIGHT BASE FOR ROUTINE MAINTENANCE. SEE THE LIGHT FIXTURE MANUFACTURER'S INSTRUCTIONS FOR PROPER METHODS OF ATTACHING THIS BONDING WIRE.
- LIGHT FIXTURES SHALL BE AS INDICATED IN THE TABLE ON THIS SHEET AND SHALL BE CONTINGENT UPON THE AWARD OF EACH ADDITIVE ALTERNATE.
- UNIT DUCT SHALL BE TERMINATED AT L-823 CONNECTORS AND SEALED TO MAKE WATERTIGHT.
- COUNTERPOISE SHALL BE INSTALLED HALF WAY BETWEEN THE NEW EDGE LIGHT CIRCUIT AND THE EDGE OF THE RUNWAY/TAXIWAY PAVEMENT.
- SEE VEGETATION CONTROL RING DETAIL ON ELECTRICAL DETAILS SHEET 2 TO BE PLACED AROUND EACH LIGHT.

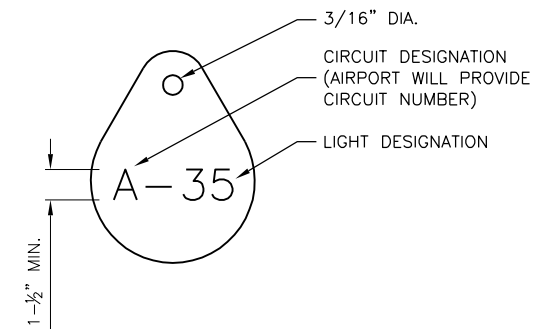


NOTES:

- CONTRACTOR SHALL CONNECT HOMERUN CABLES TO XFMR & SINGLE CONNECTOR IN UNIT DUCT W/ L-823 CONNECTORS IN PROPOSED BASE MOUNTED LIGHT.
- CONTRACTOR SHALL PROVIDE ADDITIONAL HUB ON EDGE LIGHT CAN.

SCHEMATIC

N.T.S.



LIGHT IDENTIFICATION DETAIL

N.T.S.

NOTES

INSTALL A NONCORROSIVE DISC OF 2" MINIMUM DIAMETER WITH THE NUMBER PERMANENTLY STAMPED, CUT OUT, OR ENGRAVED UNDER THE HEAD OF THE BASE PLATE BOLT OR ATTACHED TO LIGHT FLANGE WITH SET SCREW.

LEGENDS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR TO COORDINATE LEGEND WITH AIRPORT.

THE CONTRACTOR SHALL NUMBER THE EXISTING/ PROPOSED LIGHTS AND SIGNS IN EACH CIRCUIT STARTING AT THE HOMERUN CONTINUING AROUND THE ENTIRE CIRCUIT BACK TO THE HOMERUN.

AIRFIELD SIGNS SHALL BE TAGGED & NUMBERED.

VERMILION REGIONAL AIRPORT AUTHORITY
 VERMILION REGIONAL AIRPORT
 DANVILLE, ILLINOIS

REHABILITATE LIGHTS ON RUNWAY 16/34
 ELECTRICAL DETAILS 1

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

DESIGN BY:	TJH
DRAWN BY:	CMT
CHECKED BY:	AJB
APPROVED BY:	CET
DATE:	JANUARY 3, 2014
JOB No:	13042-01
IL PROJ. NO.	DNV-4234
PROJ. NO.	3-17-SBGP-XX
SHEET	12 OF 14 SHEETS