

**NOTE**

THE EXISTING P.L.A.S.I. UNITS WILL BE RELOCATED TO 100' LT. STA. 125+05 AND 100' RT. STA. 166+25 ALONG THE EAST-WEST RUNWAY.

THE PROPOSED P.L.A.S.I. CONCRETE BASES WERE CONSTRUCTED AS SHOWN IN THE DETAIL ON THIS SHEET.

THE POWER CABLES WILL BE NO. 4 XLP-USE 600 V., 2/C, UNDERGROUND CABLE IN UNIT DUCT.

THE POWER CABLES WILL BE PLACED A MINIMUM OF 24" BELOW THE FINISHED GRADE AND LOCATED AS SHOWN ON SHEETS 22 & 26.

THE PROPOSED POWER CABLES WILL BE CONNECTED TO THE EXISTING POWER CABLES AS SHOWN ON THE CONSTRUCTION PLANS.

THE EXISTING P.L.A.S.I. UNITS WILL BE AS MANUFACTURED BY DEVORE AVIATION CORPORATION CAT. NO. DA 500100, PLASI 2000.

THE CONCRETE FOR THE RELOCATED P.L.A.S.I. BASES WILL BE IN ACCORDANCE WITH ITEM 610.

INSTALLATION OF THE P.L.A.S.I. UNITS, P.L.A.S.I. BASES, AND ALL INCIDENTALS WILL BE PAID FOR UNDER ITEM:  
AR125970 RELOCATE PLASI \_\_\_\_\_ 2 EACH.

1 #10 THWN, 1 #10 NEUTRAL, 1 #10 GND IN 1" LTFMC FROM SAFETY SWITCH. SEE "PLASI SAFETY SWITCH ELEVATION".

#6 AWG BARE STRANDED COPPER GROUNDING ELECTRODE CONDUCTOR. CONNECT TO PLASI HOUSING PER THE PLASI MANUFACTURER RECOMMENDATION OR TO PLASI LEG WITH PIPE CLAMP. VERIFY METHOD OF CONNECTION WITH PLASI MANUFACTURER. CONNECT TO GROUND ROD WITH EXOTHERMIC WELD.

DISCONNECT EXISTING WIRING & CONDUIT FROM PLASI & RECONNECT TO NEW SAFETY SWITCH. PROVIDE NEW CONDUIT & FITTINGS AS APPLICABLE.

#6 AWG BARE STRANDED COPPER GROUNDING ELECTRODE CONDUCTOR TO SAFETY SWITCH EXISTING 2/C #4 AWG CABLE IN UNIT DUCT

#4 DEFORMED REBAR ON 12" CENTERS (BOTH DIRECTIONS)

3/4" DIA. X 10' L UL LISTED COPPER CLAD GROUND ROD. BURY 18" BELOW GRADE, FROM TOP OF ROD.

EXISTING P.L.A.S.I.

UL LISTED PIPE CLAMP INSTALLED ABOVE FRANGIBLE COUPLINGS EXISTING LEG ASSEMBLY

LEG ASSEMBLY

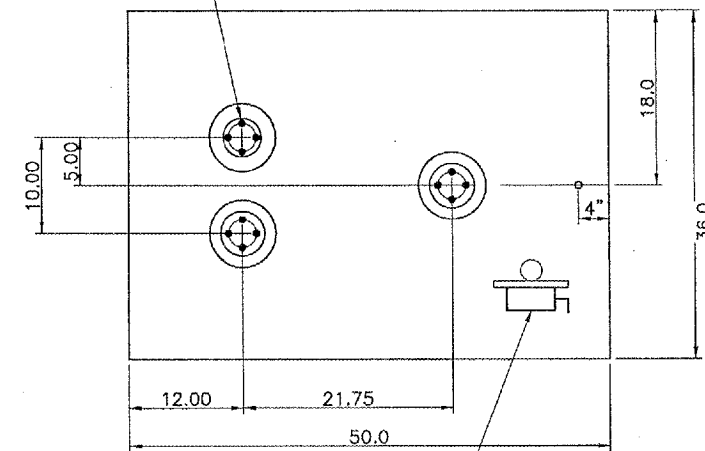
EXISTING FRANGIBLE COUPLING

EXISTING GRSC

PROPOSED 3/4" EXPANSION JOINT

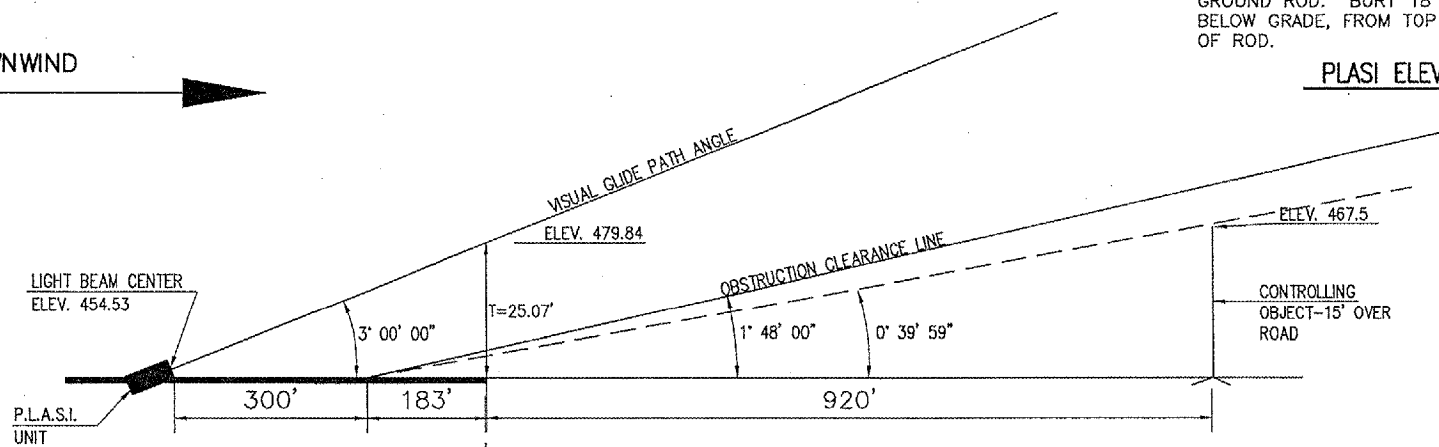
8" DIA. CONCRETE PEDESTALS

(12) - BOLT - 1/2" X 8" LONG  
(12) - WASHER - 1/2"  
(12) - NUT - 1/2"  
EQUAL SPACED ON 4-3/4" DIA. BOLT CIRCLE - 3 PLACES (EMBED BOLTS IN CONCRETE TO GIVE REQUIRED PROTRUSION)



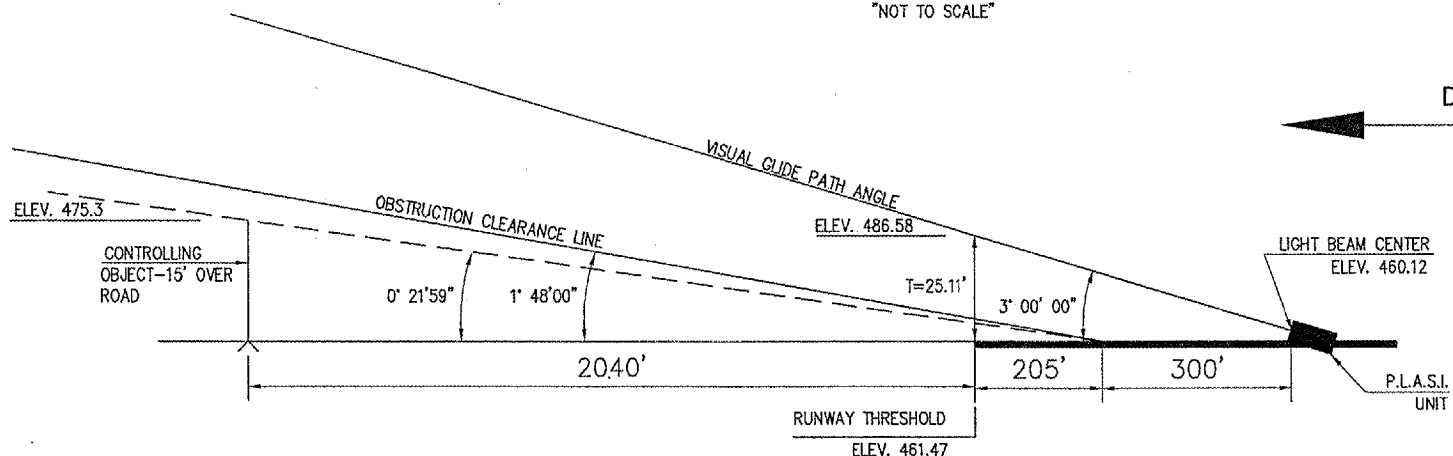
SAFETY SWITCH FOR PLASI WITH SUPPORT HARDWARE (APPROX. LOCATION). SEE ELEVATION DETAIL.

DOWNWIND



P.L.A.S.I. AIMMING DIAGRAM EAST END "NOT TO SCALE"

DOWNWIND



P.L.A.S.I. AIMMING DIAGRAM WEST END "NOT TO SCALE"

**PLASI ELEVATION**

60A, 3P WITH S/N & GND, 600 VAC HEAVY DUTY NOT FUSIBLE SAFETY SWITCH IN A NEMA 3R AND 12 ENCLOSURE

HOT DIPPED GALVANIZED STRUT, UNISTRUT P1000HG OR APPROVED EQUAL. BOLT AS REQUIRED WITH CORROSION RESISTANT HARDWARE

UL LISTED LIQUID TIGHT FLEXIBLE METAL CONDUIT SIZED AS REQUIRED PER NEC & TO MATCH EXISTING CONDUIT FRANGIBLE COUPLING APPROX. 1" ABOVE GRADE (TYP.)

FINISHED GRADE

EXISTING PLASI FOUNDATION PAD  
#6 AWG BARE STRANDED COPPER GROUNDING ELECTRODE CONDUCTOR. EXOTHERMIC WELD TO GROUND ROD

EXISTING 2/C #4 AWG CABLE IN UNIT DUCT

CAP  
2" GRSC SUPPORT POST ADJUST HEIGHT SUCH THAT THE SUPPORT POST DOES NOT EXTEND ABOVE THE TOP ELEVATION OF THE PLASI UNIT

1#10 THWN, 1#10 NEUTRAL, 1#10 GND. IN 3/4" U.L. LISTED LIQUID TIGHT FLEX METAL CONDUIT TO PLASI UNIT

1" SCHED 40 PVC  
FRANGIBLE COUPLING WITH FLOOR FLANGE MOUNT FOR 2" POST. COORDINATE ANCHOR BOLTS INTO FOUNDATION

#6 AWG BARE STRANDED COPPER GROUNDING ELECTRODE CONDUCTOR TO PLASI UNIT FRAME.

3/4" DIA. BY 10' U.L. LISTED COPPERCLAD GROUND ROD, MIN. BURY 18" BELOW FINISHED GRADE, FROM TOP OF ROD.

NOTE: SEE NEW ELECTRICAL ONE LINE DIAGRAM FOR VAULT AND PLASI FOR ADDITIONAL INFORMATION ON EQUIPMENT AND WIRING.

**PLASI SAFETY SWITCH ELEVATION**

"NOT TO SCALE"

JUN 29 2006 9:40 AM BAK I:\AIRPORTS\ROBINSON\838-CHARWY\AIRPORT SHEETS\R-541ELE.DWG - PLASI Details

DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

IL PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0866-810

REV. Project No. 838-CHARWY	FILENAME R-541ELE.DWG	SCALE NONE	DATE 02/13/04
LAYOUT	CCC	02/13/04	02/13/04
DRAWN	CCC	02/13/04	02/13/04
REVIEWED	CAH	03/05/04	03/05/04



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RUNWAY 9-27  
WIDENING  
PROPOSED  
P.L.A.S.I. DETAILS