

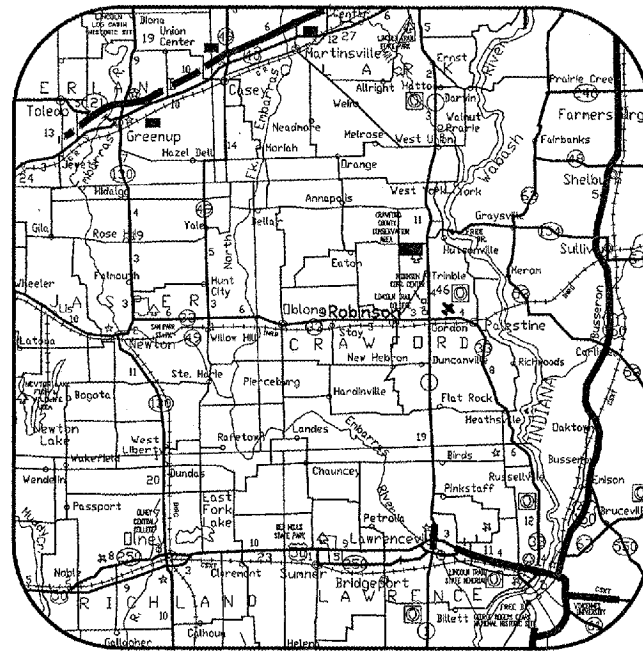
# CONSTRUCTION PLANS FOR ROBINSON MUNICIPAL AIRPORT

## ROBINSON, CRAWFORD COUNTY, ILLINOIS

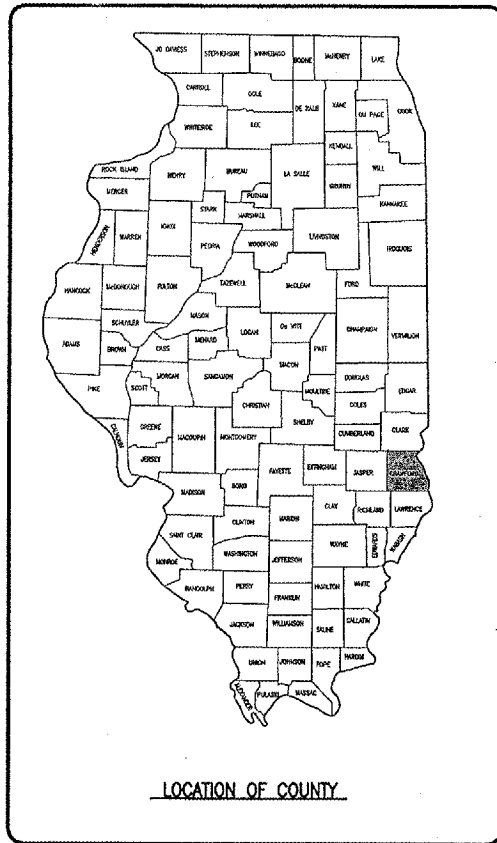
### WIDEN RUNWAY 9-27 FROM 75' TO 100'

SCOPE OF WORK

THE PROPOSED IMPROVEMENTS CONSISTS OF WIDENING RUNWAY 9-27 FROM 75' TO 100'.  
PROJECT INCLUDES MOVING THE MIRL SYSTEM, EDGE DRAINS, EARTH SHOULDERING, MARKING,  
SEEDING, AND MULCHING.



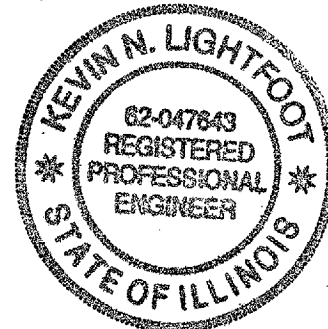
LOCATION MAP



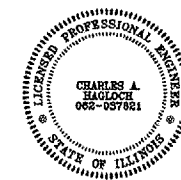
LOCATION OF COUNTY

ILL. PROJ. RSV-3490  
A.I.P. PROJ. 3-17-0086-B10

LATITUDE: 39° 00' 45.01"  
LONGITUDE: 87° 38' 35.39"  
ELEVATION: 461.6' M.S.L.  
DATE: JUNE 29, 2006



FOR ELECTRICAL  
DESIGN



REVISED 07/09/04  
REVISED 06/28/06

PLANS PREPARED BY:  
**HANSON**  
Hanson Professional Services Inc.  
**ELECTRICAL ENGINEER**

Submitted by: *Kevin N. Lightfoot* ENG'R  
Date Submitted: JUNE 29, 2006  
Lic. Exp. Date: NOVEMBER 30, 2007

PLANS PREPARED BY:  
**HANSON**  
Hanson Professional Services Inc.

Submitted by: *Charles A. Hagloch* ENG'R  
Date Submitted: JUNE 29, 2006  
Lic. Exp. Date: NOVEMBER 30, 2007

**ROBINSON AIRPORT AUTHORITY**

Approved: *W. Larry* CHAIRMAN  
Date: 7/9/04

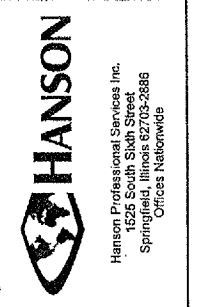
Approved: *Jimmy Alvord* TREASURER  
Date: 7-9-04

DATE	REVISION

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

ILL. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

REL. PROJECT No. 838-04RWY	DATE 02/25/04
EXHAUST R-001CVR.DWG	SCALE N/A
DATE 02/25/04	BY SEP 01/12/04
LAYOUT	CCC 02/25/04
DRAWN	CAH 03/05/04
REVIEWED	



RUNWAY 9-27  
WIDENING

COVER SHEET

JUN 29, 2006 9:12 AM CAH  
I:\AIRPORTS\ROBINSON\838-04RWY\AIRPORT\SHEETS\R-001CVR.DWG - COVER SHEET

**SUMMARY OF QUANTITIES**

ITEM NO.	DESCRIPTION	UNIT	AS AWARDED QUANTITIES	AS BUILT QUANTITIES
AR108158	1/C #8 5 KV UG CABLE IN UD	L.F.	288	
AR109210	VAULT MODIFICATIONS	L.S.	1	
AR110553	EXTEND 3-WAY DUCT	L.F.	50	
AR125961	RELOCATE STAKE MOUNTED LIGHT	EACH	61	
AR125962	RELOCATE BASE MOUNTED LIGHT	EACH	18	
AR125967	RELOCATE REILS	PAIR	2	
AR125970	RELOCATE PLAS	EACH	2	
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1	
AR150540	HAUL ROUTE	L.S.	1	
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	6,019	
AR152442	OFF-SITE BORROW EXCAVATION	C.Y.	3,342	
AR155540	BY-PRODUCT LIME	TON	617	
AR155616	SOIL PROCESSING - 16"	S.Y.	15,064	
AR156512	BALES	EACH	52	
AR156513	SEPARATION FABRIC	S.Y.	1,202	
AR156520	INLET PROTECTION	EACH	13	
AR156530	TEMPORARY SEEDING	ACRE	12	
AR201610	BITUMINOUS BASE COURSE	TON	7,497	
AR201630	BITUMINOUS BASE TEST SECTION	EACH	1	
AR209510	CRUSHED AGGREGATE BASE COURSE	TON	8,011	
AR401610	BITUMINOUS SURFACE COURSE	TON	1,602	
AR401900	REMOVE BITUMINOUS PAVEMENT	S.Y.	565	
AR602510	BITUMINOUS PRIME COAT	GAL.	5,430	
AR603510	BITUMINOUS TACK COAT	GAL.	6,675	
AR620520	PAVEMENT MARKING - WATERBORNE	S.F.	44,991	
AR620900	PAVEMENT MARKING REMOVAL	S.F.	14,938	
AR705410	POROUS BACKFILL	C.Y.	679	
AR705524	4" PERFORATED UNDERDRAIN W/SOCK	L.F.	8,685	
AR705630	UNDERDRAIN INSPECTION HOLE	EACH	23	
AR901510	SEEDING	ACRE	12	
AR908510	MULCHING	ACRE	12	

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4	PROPOSED CONSTRUCTION PLAN STA. 120+00 TO STA. 127+00
5	PROPOSED CONSTRUCTION PLAN STA. 127+00 TO STA. 143+00
6	PROPOSED CONSTRUCTION PLAN STA. 143+00 TO STA. 159+00
7	PROPOSED CONSTRUCTION PLAN STA. 159+00 TO STA. 171+09
8	PROPOSED STAKING PLAN STA. 120+00 TO STA. 127+00
9	PROPOSED STAKING PLAN STA. 127+00 TO STA. 143+00
10	PROPOSED STAKING PLAN STA. 143+00 TO STA. 159+00
11	PROPOSED STAKING PLAN STA. 159+00 TO STA. 171+09
12	PROPOSED DRAINAGE PLAN STA. 120+00 TO STA. 127+00
13	PROPOSED DRAINAGE PLAN STA. 127+00 TO STA. 143+00
14	PROPOSED DRAINAGE PLAN STA. 143+00 TO STA. 159+00
15	PROPOSED DRAINAGE PLAN STA. 159+00 TO STA. 171+09
16	EXISTING ELECTRICAL PLAN STA. 120+00 TO STA. 127+00
17	EXISTING ELECTRICAL PLAN STA. 127+00 TO STA. 135+00
18	EXISTING ELECTRICAL PLAN STA. 135+00 TO STA. 143+00
19	EXISTING ELECTRICAL PLAN STA. 143+00 TO STA. 159+00
20	EXISTING ELECTRICAL PLAN STA. 159+00 TO STA. 167+00
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23	PROPOSED ELECTRICAL PLAN STA. 127+00 TO STA. 135+00
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44	PROPOSED CROSS-SECTIONS STA. 123+00 TO STA. 124+00
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73	PROPOSED CROSS-SECTIONS STA. 167+50 TO STA. 168+50
74	PROPOSED CROSS-SECTIONS STA. 169+00 TO STA. 170+00
75	PROPOSED CROSS-SECTIONS STA. 170+50 TO STA. 171+50

REVISION	DATE	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

IL. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-810

HEI Project No. 838-04RWY	File Name R-002ELP.DWG	Scale N/A	Date 02/25/04
LAYOUT	CCC	02/25/04	
DRAWN	CCC	02/25/04	
REVIEWED	CAH	03/05/04	



RUNWAY 9-27  
WIDENING  
SUMMARY OF QUANTITIES,  
INDEX TO SHEETS

**SCOPE OF WORK**

THE PROPOSED IMPROVEMENTS CONSIST OF WIDENING RUNWAY 9-27 FROM 75' TO 100'. PROJECT INCLUDES MOVING THE MRL SYSTEM, EDGE DRAINS, EARTH SHOULDERING, MARKING, SEEDING, AND MULCHING.

**PROPOSED SAFETY PLAN**

GENERAL - THE ROBINSON MUNICIPAL AIRPORT IS COMPRISED OF ONE EAST/WEST PRIMARY (9/27) AND A NORTH/SOUTH (17/35) RUNWAY. THE CLOSURE OF RUNWAY 9/27 WILL BE REQUIRED FOR THE DURATION OF THE PROJECT. RUNWAY (17/35) WILL BE CLOSED WHENEVER CONSTRUCTION ACTIVITIES ARE BEING CONDUCTED WITHIN 200' OF ITS CENTERLINE. ONCE WORK WITHIN THE 200 FT LIMIT IS COMPLETED, THE CONTRACTOR WILL REOPEN THE RUNWAY. THE CONTRACTOR WILL NOT BE ALLOWED TO CROSS RUNWAY 17/35 WHEN IT IS OPEN. THE CONTRACTOR WILL BE REQUIRED TO USE THE DESIGNATED HAUL ROUTE TO ACCESS EACH END OF THE RUNWAY. THE AIRPORT MANAGER WILL BE ADVISED A MINIMUM OF SEVEN DAYS PRIOR TO CLOSING A RUNWAY IN ORDER TO INSURE THE REQUIRED NOTAM.

IDENTIFICATION - WHEN THE CONTRACTOR'S VEHICLES AND EQUIPMENT ARE ON THE AIRPORT THEY SHALL BE PROPERLY MARKED WITH THREE-FOOT (3') SQUARE CHECKERED FLAGS (INTERNATIONAL ORANGE AND WHITE).

RADIO CONTROL - THE CONTRACTOR WILL BE REQUIRED TO BE IN TWO-WAY RADIO CONTACT WITH THE AIRPORT CTAF (123.00 MHZ) AT ALL TIMES. THIS WILL ENABLE THE AIRPORT TO IMMEDIATELY CONTACT THE CONTRACTOR IN THE CASE OF AN AERONAUTICAL EMERGENCY THAT WOULD REQUIRE ACTION BY THE CONTRACTOR AND/OR HIS PERSONNEL.

THE CONTRACTOR AND HIS EMPLOYEES WILL BE RESTRICTED TO THE WORK AREA. ALL OTHER AREAS OF THE AIRPORT ARE "OFF LIMITS".

**HAUL ROUTE**

THERE WILL BE TWO (2) HAUL ROUTES FOR THIS PROJECT AS SHOWN ON THIS SHEET.

THERE IS AN EXISTING HAUL ROUTE TO ACCESS THE WEST END OF RUNWAY 9-27.

THE CONTRACTOR WILL INSTALL A CORRUGATED METAL PIPE AT THE ENTRANCE TO THE EAST HAUL ROUTE.

THE CONTRACTOR SHALL CONSTRUCT AN ALL WEATHER HAUL ROUTE TO ACCESS TO THE EAST END OF RUNWAY 9-27. BOTH HAUL ROUTES WILL BE MAINTAINED AS NOT TO CAUSE DELAY TO THE PROPOSED CONSTRUCTION. THE CONSTRUCTION, MAINTENANCE, REMOVAL, AND RESTORATION OF THE HAUL ROUTES WILL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND IS A CONTRACT BID ITEM. THE TRAFFIC CONTROL AND SAFETY OF VEHICLES USING THE ENTRANCES AND HAUL ROUTES ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL STATE OF ILLINOIS AND CRAWFORD COUNTY PERMITTING REQUIREMENTS PERTAINING TO THESE ENTRANCES WILL ALSO BE THE CONTRACTOR'S RESPONSIBILITY.

AT THE CONCLUSION OF THE CONSTRUCTION PROJECT, THE HAUL ROUTES WILL BE RESTORED TO THE SATISFACTION OF THE RESIDENT ENGINEER AND PAID FOR UNDER ITEM AR150540 "HAUL ROUTE" PER L.S.

**SCHEDULING OF OPERATIONS**

**RUNWAY CLOSURES**

RUNWAY 9/27 WILL BE CLOSED FOR THE DURATION OF THE PROJECT. RUNWAY 17/35 WILL BE CLOSED DURING PHASE 2 AND ONE DAY OF PHASE 3.

**PHASING**

THIS PROJECT SHALL BE CONSTRUCTED IN THREE (3) PHASES. THE PHASING IS DESIGNED TO MINIMIZE THE TIME IN WHICH BOTH RUNWAYS WILL BE CLOSED.

PHASE 1 SHALL CONSIST OF THE WIDENING OF RUNWAY 9/27 FROM STATION 120+00 TO STATION 158+00 AND STATION 163+00 TO STATION 171+06.57. DURING THIS PHASE THE CONTRACTOR WILL COMPLETE ALL PROPOSED: PAVEMENT PREPARATION, BITUMINOUS PAVING, EDGEDRAIN SYSTEM, ELECTRICAL WORK, EARTH WORK, SEEDING AND MULCHING WITHIN THE PHASE 1 AREA.

PHASE 2 WILL CONSIST OF THE WIDENING OF THE REMAINDER OF THE RUNWAY 9/27. DURING THIS PHASE BOTH RUNWAYS WILL BE CLOSED. THE WORK WILL INCLUDE ALL PROPOSED: PAVEMENT PREPARATION, BITUMINOUS PAVING, EDGEDRAIN SYSTEM, ELECTRICAL WORK, EARTH WORK, SEEDING AND MULCHING DURING THIS PHASE. RUNWAY 17/35 WILL BE OPENED FOR TRAFFIC WITH THE COMPLETION OF PHASE 2. TO FACILITATE THIS PHASE THE CONTRACTOR WILL NOT BE REQUIRED TO LIME MODIFY THE SUBGRADE. INSTEAD HE WILL BE REQUIRED TO PLACE A GEOGRID FABRIC PRIOR TO PLACEMENT OF THE CRUSHED AGGREGATE BASE COURSE.

PHASE 3 WILL CONSIST OF ALL PROJECT MARKING AND MARKING REMOVAL. THE CONTRACTOR WILL CLOSE 9/27 OR 17/35 WHEN WORKING WITHIN 200' OF THE RUNWAY CENTERLINE. THE RUNWAY 17/35 MAY NOT BE CLOSED MORE THAN ONE DAY.

**TRAFFIC MAINTENANCE**

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE AND MAINTAIN BARRICADES AS SHOWN ON THIS SHEET AND AS DIRECTED BY THE RESIDENT ENGINEER. THE BARRICADES WILL BE EQUIPPED WITH RED FLASHING LIGHTS AND 20 INCH SQUARE ORANGE FLAGS. THE BARRICADES, THEIR MAINTENANCE, PLACEMENT AND REMOVAL WILL BE INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**HEIGHT OF CONSTRUCTION EQUIPMENT**

THE MAXIMUM ANTICIPATED HEIGHT OF THE CONSTRUCTION EQUIPMENT WILL BE 20 FEET. THE TALLEST EQUIPMENT IS EXPECTED TO BE A SEMI-TRUCK AND TRAILER.

**EROSION CONTROL**

THIS PROJECT WILL DISTURB MORE THAN 1 ACRE OF LAND, THEREFORE A STORM WATER POLLUTION PREVENTION PLAN WILL BE NECESSARY. SEE SHEETS 39 AND 40 FOR THIS PLAN.

**AIRPORT SECURITY NOTE**

AIRPORT SECURITY WILL BE MAINTAINED AT ALL TIMES AS PER DIRECTION OF THE AIRPORT MANAGER.

**ENGINEER'S FIELD OFFICE NOTES**

THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE FURNISHED, MAINTAINED, AND REMOVED IN ACCORDANCE WITH ITEM AR150510 "ENGINEER'S FIELD OFFICE" AS STATED ON PAGE 168 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

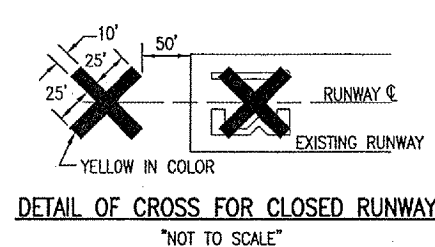
THE LOCATION OF THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE DETERMINED AT THE PRE-CONSTRUCTION MEETING.

THE ENGINEERING FIRM WILL MAKE PAYMENT FOR ALL LONG DISTANCE TELEPHONE CALLS IN EXCESS OF ONE HUNDRED DOLLARS (\$100.00) PER MONTH.

THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE PAID FOR UNDER ITEMS: AR150510 ENGINEER'S FIELD OFFICE \_\_\_\_\_ 1 L.S.

**RUNWAY CLOSURE**

DESIGNATION OF A RUNWAY AS BEING CLOSED SHALL BE DONE BY PLACING CROSSES ON RUNWAY NUMBERS, OR AT RUNWAY ENDS, AS SHOWN IN THE DETAIL ON THIS SHEET. THE CROSSES WILL BE YELLOW IN COLOR AND SHALL BE MADE OF A SUITABLE MATERIAL AS APPROVED BY THE ENGINEER. THE CROSSES WILL BE PLACED AND SECURED IN A MANNER APPROVED BY THE ENGINEER. THE CROSSES WILL BE PLACED EACH DAY THE RUNWAY IS CLOSED AND REMOVED WHEN THE RUNWAY IS RE-OPENED. THE COST OF CONSTRUCTING, PLACING, MAINTAINING, AND REMOVING CLOSURE CROSSES WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



**CONTRACTOR RESPONSIBILITIES**

THE CONTRACTOR'S EQUIPMENT PARKING AND STORAGE AREA WILL BE AS SHOWN ON THIS SHEET. THE CONTRACTOR'S EMPLOYEES WILL PARK THEIR VEHICLES IN THIS AREA. ONLY CONTRACTOR VEHICLES WILL BE ALLOWED OUTSIDE THIS AREA. THE CONTRACTOR AND HIS EMPLOYEES WILL BE RESTRICTED TO THE WORK AREA AND ALL OTHER AREAS OF THE AIRPORT ARE "OFF LIMITS" TO THEM.

WHENEVER WORK IS PERFORMED WITHIN 200' OF A RUNWAY CENTERLINE, OR EXTENDED RUNWAY CENTERLINE, OR WITHIN 85' OF A TAXIWAY CENTERLINE, THE RUNWAY OR TAXIWAY SHALL BE CLOSED. ALL WORK SHALL BE DONE IN AN ORDERLY AND EFFECTIVE MANNER TO MINIMIZE RUNWAY CLOSURE. SEE RUNWAY SEQUENCING NOTE, THIS SHEET.

THE CONTRACTOR MUST COORDINATE WITH THE AIRPORT MANAGER AND THE FARMERS IF CROPS ARE IN THE LOCATIONS WHERE EITHER THE HAUL ROUTES OR EQUIPMENT PARKING AND STORAGE AREAS ARE LOCATED.

**J.U.L.I.E. INFORMATION**

COUNTY.....CRAWFORD  
CITY.....ROBINSON  
TOWNSHIP.....LAMOTTE  
SECTION NO.....8, 29, & 33  
ADDRESS.....ROBINSON MUNICIPAL AIRPORT  
P.O. BOX 6  
ROBINSON, ILLINOIS 62454

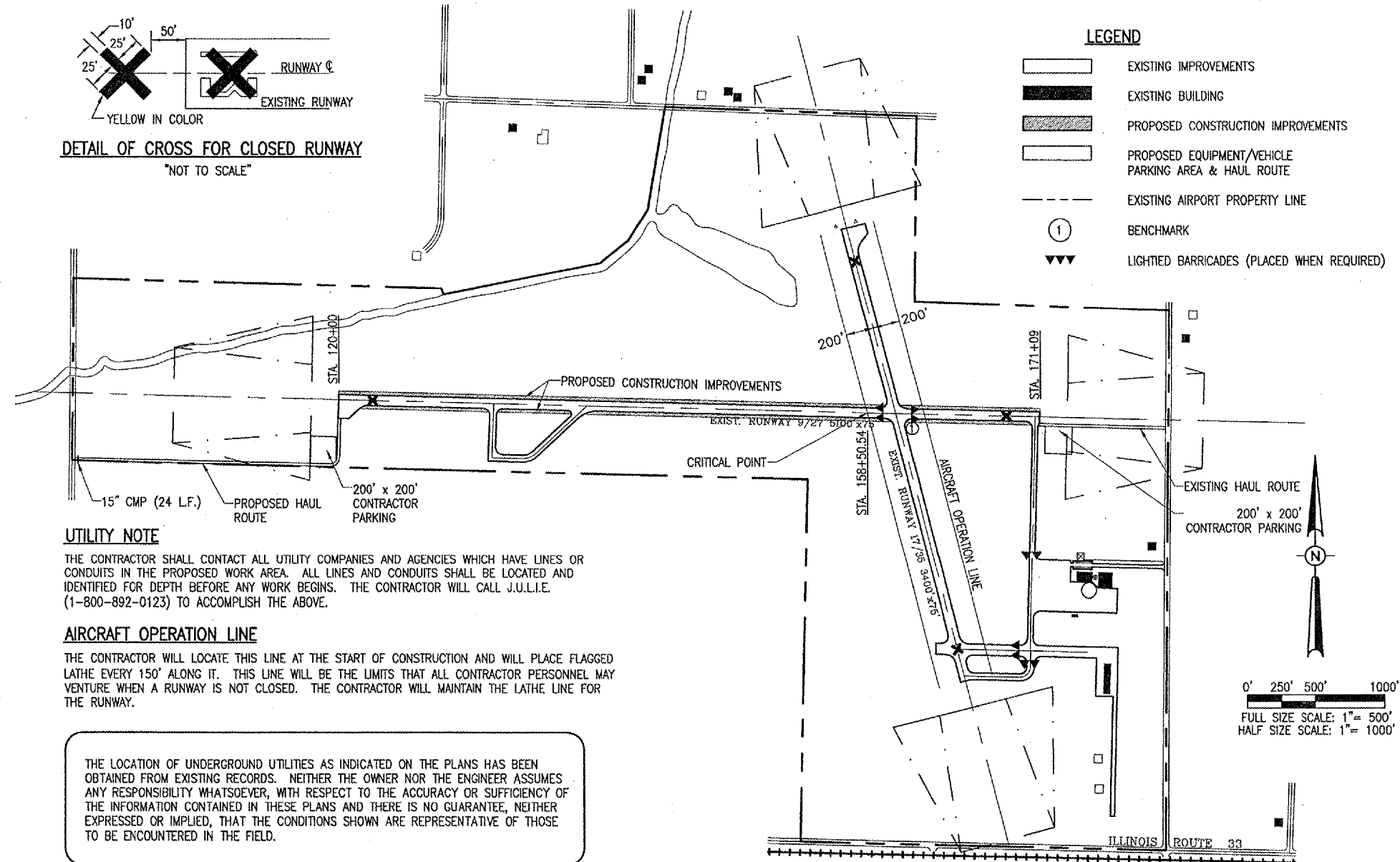
**CRITICAL POINT DATA**

LATITUDE: 39° 00' 58.72"  
LONGITUDE: 87° 38' 50.84"  
ELEVATION: 456.36 M.S.L.

BENCHMARK DATA table with columns NO., DESCRIPTION, ELEVATION. Row 1: 1, NGS MONUMENT "ROBPORT" STAINLESS STEEL ROD IN SLEEVE, 452.56

**LEGEND**

- EXISTING IMPROVEMENTS (dashed line)
- EXISTING BUILDING (solid black)
- PROPOSED CONSTRUCTION IMPROVEMENTS (hatched)
- PROPOSED EQUIPMENT/VEHICLE PARKING AREA & HAUL ROUTE (dotted)
- EXISTING AIRPORT PROPERTY LINE (long-dashed)
- BENCHMARK (circle with 1)
- LIGHTED BARRICADES (PLACED WHEN REQUIRED) (inverted triangles)



**UTILITY NOTE**

THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND AGENCIES WHICH HAVE LINES OR CONDUITS IN THE PROPOSED WORK AREA. ALL LINES AND CONDUITS SHALL BE LOCATED AND IDENTIFIED FOR DEPTH BEFORE ANY WORK BEGINS. THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) TO ACCOMPLISH THE ABOVE.

**AIRCRAFT OPERATION LINE**

THE CONTRACTOR WILL LOCATE THIS LINE AT THE START OF CONSTRUCTION AND WILL PLACE FLAGGED LATHE EVERY 150' ALONG IT. THIS LINE WILL BE THE LIMITS THAT ALL CONTRACTOR PERSONNEL MAY VENTURE WHEN A RUNWAY IS NOT CLOSED. THE CONTRACTOR WILL MAINTAIN THE LATHE LINE FOR THE RUNWAY.

THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER, WITH RESPECT TO THE ACCURACY OR SUFFICIENCY OF THE INFORMATION CONTAINED IN THESE PLANS AND THERE IS NO GUARANTEE, NEITHER EXPRESSED OR IMPLIED, THAT THE CONDITIONS SHOWN ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE FIELD.

RB014

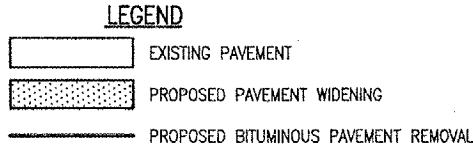
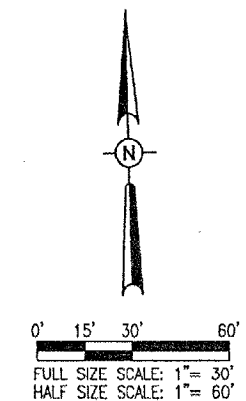
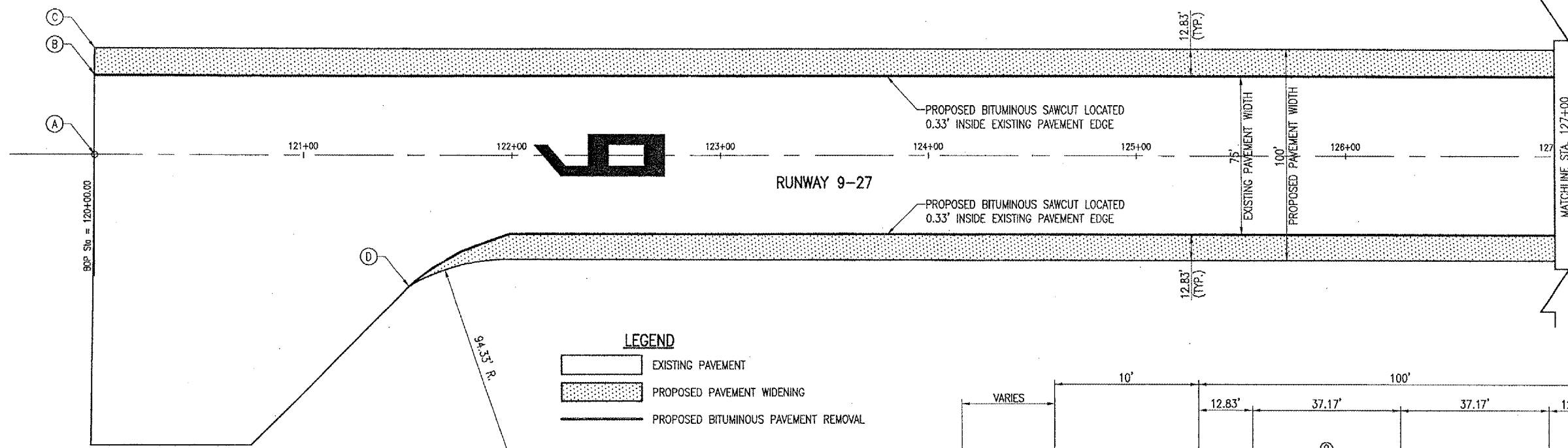
Revision table and project title: ROBINSON MUNICIPAL AIRPORT, ROBINSON, CRAWFORD COUNTY, ILLINOIS. Project No: 3-17-0086-B10.

Project metadata table with fields: REVISED, DRAWN, REVIEWED, DATE, and various codes.

HANSON logo and company information: Hanson Professional Services Inc., 1525 South Sixth Street, Springfield, Illinois 62703-2886.

Project title: RUNWAY 9-27 WIDENING PROPOSED SAFETY PLAN.

JUN 29, 2006 8:30 AM CAH I:\AIRPORTS\ROBINSON\838-DARWIN\AIRPORT SHEETS\R-003SFY.DWG - SAFETY PLAN



**BITUMINOUS PAVEMENT REMOVAL NOTES**

THE BITUMINOUS PAVEMENT REMOVAL SHALL CONSIST OF REMOVING THE EXISTING RUNWAY PAVEMENT EDGE (4-6" DEPENDING ON ROLL DOWN) AT THE LOCATIONS SHOWN ON THE CONSTRUCTION PLAN SHEETS. THE EXISTING BITUMINOUS SURFACE AND AGGREGATE BASE SHALL BE REMOVED 2" DEPTH AND DISPOSED OF BY THE CONTRACTOR OFF THE AIRPORT PROPERTY. THE CONTRACTOR HAS THE OPTION TO REMOVE THE PAVEMENT BY MILLING. IF HE MILLS THE PAVEMENT AND MAINTAINS A STRAIGHT EDGE, THEN PAVEMENT SAWING WILL NOT BE REQUIRED.

THE CONTRACTOR IS REQUIRED TO SAWCUT, 2" DEPTH, THE EXISTING PAVEMENT AT THE LOCATIONS WHERE THE PROPOSED WIDENING WILL ABUT THE EXISTING PAVEMENT, AS SHOWN.

THE PAVEMENT SAWING WILL BE CONSIDERED INCIDENTAL TO THE PAVEMENT REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE MADE.

ANY ADJACENT PAVEMENT DAMAGED BY THE PAVEMENT REMOVAL OPERATIONS WILL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE.

THE QUANTITY OF BITUMINOUS PAVEMENT REMOVAL TO BE PAID FOR SHALL BE THE NUMBER OF SQUARE YARDS OF PAVEMENT REMOVED, AND DISPOSED OF IN ACCORDANCE WITH THE SPECIFICATIONS, CONSTRUCTION DRAWINGS, AND ACCEPTED BY THE ENGINEER. MEASUREMENT OF THE BITUMINOUS PAVEMENT REMOVAL SHALL BE TO THE NEAREST SQUARE YARD.

ALL BITUMINOUS PAVEMENT REMOVAL, WITH THE EXCEPTION OF PAVEMENT REMOVED FOR BITUMINOUS PAVEMENT REPAIR, WILL BE PAID FOR UNDER ITEM:  
AR401900 REMOVE BITUMINOUS PAVEMENT 565 S.Y.

**401-BITUMINOUS SURFACE COURSE NOTES**

THE BITUMINOUS SURFACE COURSE (401) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR401001 "BITUMINOUS SURFACE COURSE-METHOD I" AS STATED ON PAGE 245 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM OF WORK SHALL CONSIST OF CONSTRUCTING ONE LIFT OF A BITUMINOUS SURFACE COURSE (2 IN. DEPTH) ON THE PROPOSED BITUMINOUS BASE COURSE FOR THE PROPOSED RUNWAY WIDENING.

THE PROPOSED BITUMINOUS SURFACE COURSE WILL BE DESIGNED TO A MARSHALL DESIGN OF LESS THAN 60,000 POUNDS.

401-4.9 TRANSPORTING, SPREADING, AND FINISHING. DELETE ANY REFERENCE TO STRINGLINE AND SUBSTITUTE THE FOLLOWING:

A STRINGLINE WILL NOT BE REQUIRED ON THE SURFACE LIFT PROVIDING THE BASE COURSE IS PAVED TO A DESIRED SLOPE AND GRADE.

WHEN HAND SPREADING IS PERMITTED, THE MIXTURE WILL BE DISTRIBUTED AND SPREAD USING HAND TOOLS. WHEN THE WORK IS COMPLETED, THE LAYER WILL HAVE THE REQUIRED THICKNESS AND CONFORM TO THE GRADE AND SURFACE CONTOUR SHOWN ON THE PLANS.

401-4.12 SHAPING EDGES. ADD THE FOLLOWING TO THIS PARAGRAPH:

ALL PAVEMENT EDGES (LONGITUDINAL, RADIUS, AND PAVEMENT ENDS) MUST BE LEFT IN PROPER ALIGNMENT AS SHOWN ON THE PLANS. THIS MAY BE ACCOMPLISHED BY THE TRIMMING METHOD OUTLINED ABOVE OR AT THE CONTRACTOR'S OPTION BY SAWING AFTER THE PAVING HAS BEEN COMPLETED. NO ADDITIONAL COMPENSATION WILL BE MADE IF THE SAWING METHOD IS USED.

**201-BITUMINOUS BASE COURSE NOTES**

THE BITUMINOUS BASE COURSE (201) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR201001 "BITUMINOUS BASE COURSE-METHOD II" AS STATED ON PAGE 193 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM OF WORK SHALL CONSIST OF CONSTRUCTING THREE LIFTS OF A BITUMINOUS BASE COURSE (3" DEPTH EACH) ON THE CRUSHED AGGREGATE BASE COURSE FOR THE PROPOSED RUNWAY WIDENING.

THE PROPOSED BITUMINOUS BASE COURSE WILL BE DESIGNED TO A MARSHALL DESIGN OF LESS THAN 60,000 POUNDS.

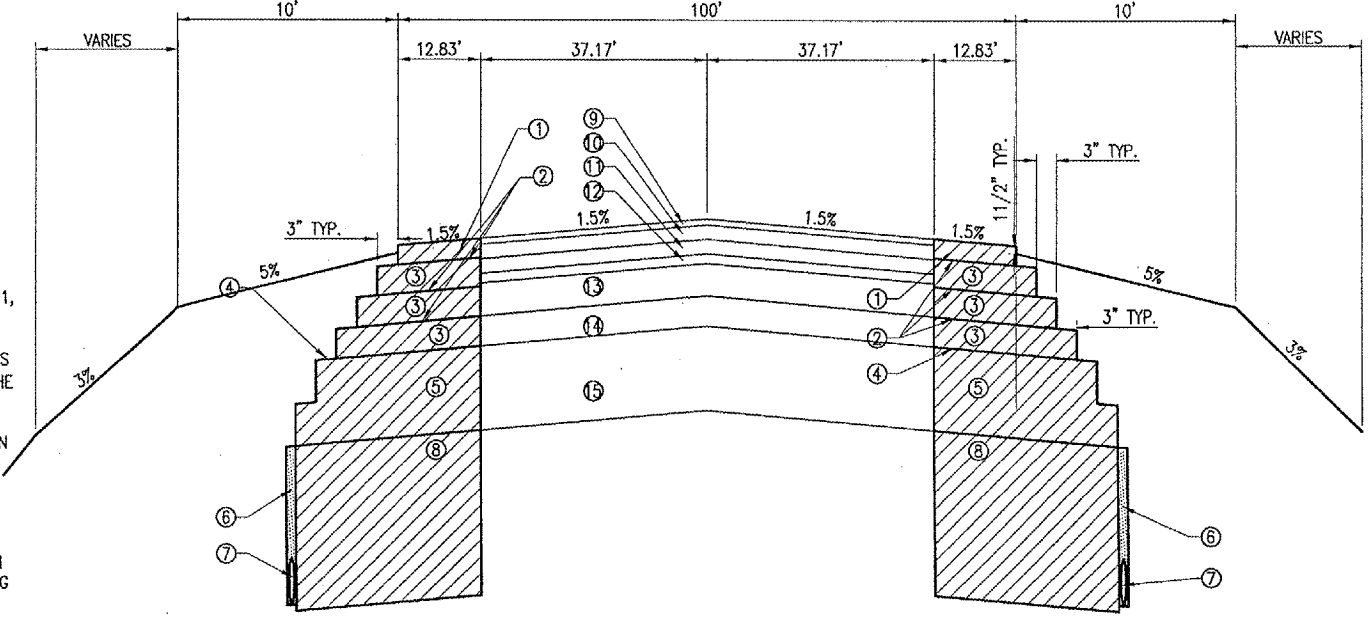
201-4.9 TRANSPORTING, SPREADING, AND FINISHING. DELETE ANY REFERENCE TO STRINGLINE AND SUBSTITUTE THE FOLLOWING:

THE CONTRACTOR WILL BE ALLOWED TO USE THE AUTOMATIC GRADE CONTROL SYSTEM OF THE PAVER THROUGH OUT THIS PROJECT. THE CONTRACTOR WILL USE A TRAVELING SKI ON ONE SIDE OF THE PAVER AND USE DEPTH CHECK CONTROL ON OTHER SIDE, DUE TO THE IRREGULAR TRANSVERSE SLOPES. THIS WILL KEEP EACH LIFT OF THE BITUMINOUS BASE COURSE RELATIVELY CONSISTENT IN DEPTH.

WHEN HAND SPREADING IS PERMITTED, THE MIXTURE WILL BE DISTRIBUTED AND SPREAD USING HAND TOOLS. WHEN THE WORK IS COMPLETED, THE LAYER WILL HAVE THE REQUIRED THICKNESS AND CONFORM TO THE GRADE AND SURFACE CONTOUR SHOWN ON THE PLANS.

201-4.12 SHAPING EDGES. ADD THE FOLLOWING TO THIS PARAGRAPH:

ALL PAVEMENT EDGES (LONGITUDINAL, RADIUS, AND PAVEMENT ENDS) MUST BE LEFT IN PROPER ALIGNMENT AS SHOWN ON THE PLANS. THIS MAY BE ACCOMPLISHED BY THE TRIMMING METHOD OUTLINED ABOVE OR AT THE CONTRACTOR'S OPTION BY SAWING AFTER THE PAVING HAS BEEN COMPLETED. NO ADDITIONAL COMPENSATION WILL BE MADE IF THE SAWING METHOD IS USED.



**PROPOSED TYPICAL SECTION**  
"NOT TO SCALE"

QUANTITIES - PAVEMENT CONSTRUCTION				
ITEM No.	DESCRIPTION	UNIT	TOTAL QUANTITY	AS BUILT QUANTITY
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	6,019	
AR152442	OFF-SITE BORROW EXCAVATION	C.Y.	3,342	
AR201610	BITUMINOUS BASE COURSE	TON	7,497	
AR201630	BITUMINOUS BASE TEST SECTION	EACH	1	
AR209510	CRUSHED AGGREGATE BASE COURSE	TON	8,011	
AR401610	BITUMINOUS SURFACE COURSE	TON	1,602	
AR401900	REMOVE BITUMINOUS PAVEMENT	S.Y.	565	
AR602510	BITUMINOUS PRIME COAT	GAL.	5,430	
AR603510	BITUMINOUS TACK COAT	GAL.	6,675	

**PROPOSED TYPICAL SECTION LEGEND:**

- ① PROPOSED 401 - BITUMINOUS SURFACE COURSE (2" DEPTH)
- ② PROPOSED 603 - BITUMINOUS TACK COAT (0.15 GAL./S.Y.)
- ③ PROPOSED 201 - BITUMINOUS BASE COURSE (3" DEPTH)
- ④ PROPOSED 602 - BITUMINOUS PRIME COAT (0.35 GAL./S.Y.)
- ⑤ PROPOSED 209 - CRUSHED AGGREGATE BASE COURSE (8" DEPTH)
- ⑥ PROPOSED 705 - POROUS BACKFILL
- ⑦ PROPOSED 705 - 4" PERFORATED UNDERDRAIN W/ SOCK
- ⑧ PROPOSED 155 - LIME-MODIFIED SUBGRADE (16" DEPTH)
- ⑨ EXISTING 402 - POROUS FRICTION COURSE (¾" DEPTH)
- ⑩ EXISTING 401 - BITUMINOUS SURFACE COURSE (1.5" DEPTH)
- ⑪ EXISTING 401 - BITUMINOUS LEVELING COURSE (1.5" DEPTH)
- ⑫ EXISTING 402 - POROUS FRICTION COURSE (1" DEPTH)
- ⑬ EXISTING 401 - BITUMINOUS SURFACE COURSE (4" DEPTH)
- ⑭ EXISTING 401 - BITUMINOUS SURFACE COURSE (3"-4" DEPTH)
- ⑮ EXISTING 209 - CRUSHED AGGREGATE BASE (8" DEPTH)

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DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

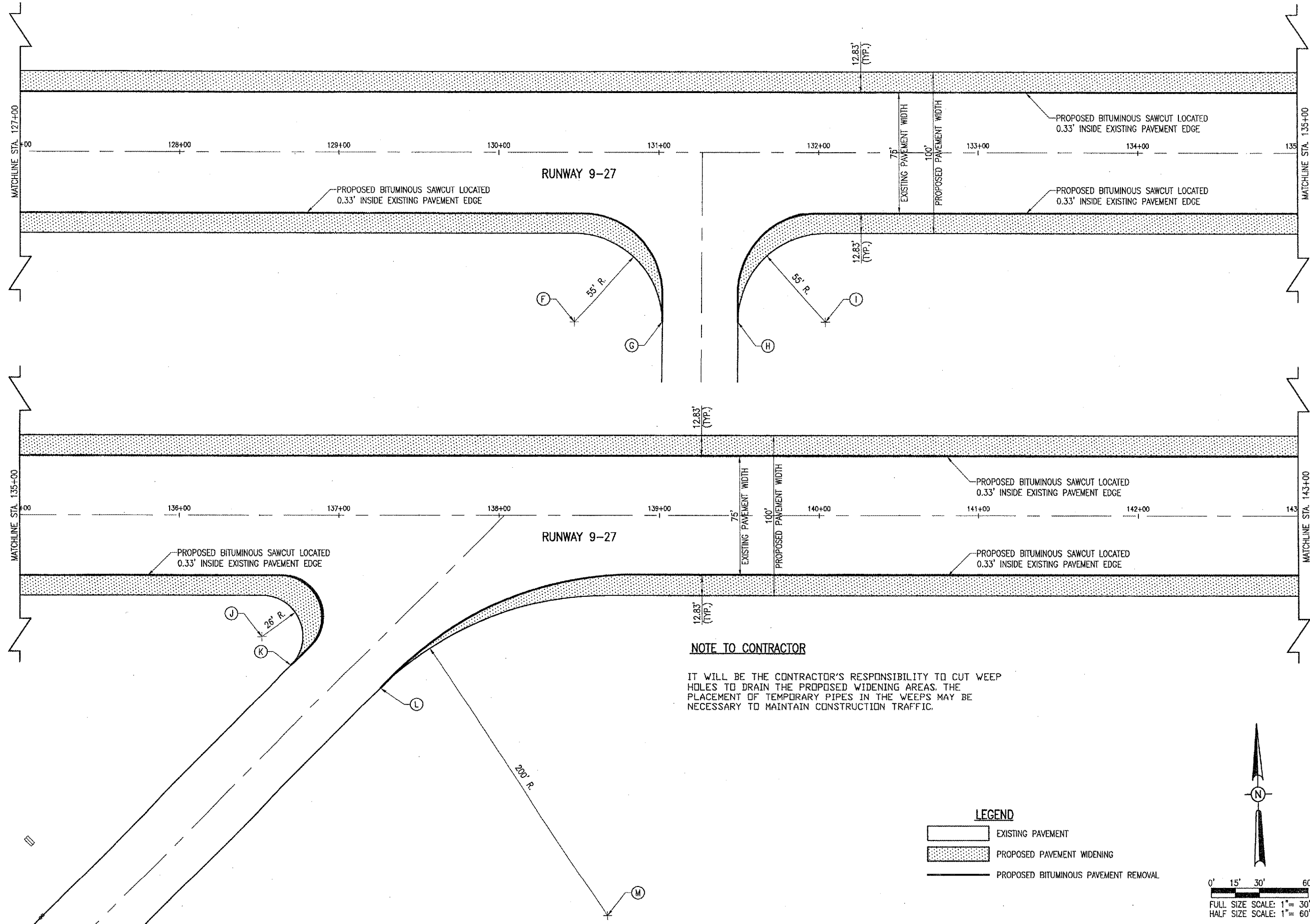
AL.P. PROJ.: 3-17-0086-810  
IL. PROJ.: RSV-3490

REVISION	DATE	BY

**HANSON**  
Hanson Professional Services Inc.  
1525 South State Street  
Springfield, Illinois 62703-2895  
Offices Nationwide

**RUNWAY 9-27 WIDENING**

PROPOSED CONSTRUCTION PLAN  
STA. 120+00 TO STA. 127+00

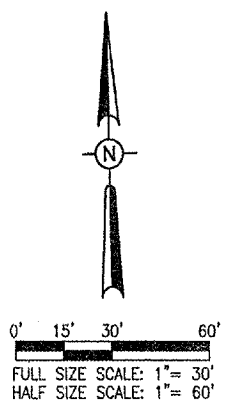


**NOTE TO CONTRACTOR**

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO CUT WEEP HOLES TO DRAIN THE PROPOSED WIDENING AREAS. THE PLACEMENT OF TEMPORARY PIPES IN THE WEEPS MAY BE NECESSARY TO MAINTAIN CONSTRUCTION TRAFFIC.

**LEGEND**

- EXISTING PAVEMENT
- PROPOSED PAVEMENT WIDENING
- PROPOSED BITUMINOUS PAVEMENT REMOVAL



DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS

IL. PROJ.: RSY-3490 A.I.P. PROJ.: 3-17-0086-B10

Proj. No. 838-04RWY	
Drawings R-121CON.DWG	
Scale 1"=30'	
Date 01/13/04	
LAYOUT CCC	01/13/04
DRAWN CCC	01/13/04
REVIEWED CAH	03/05/04

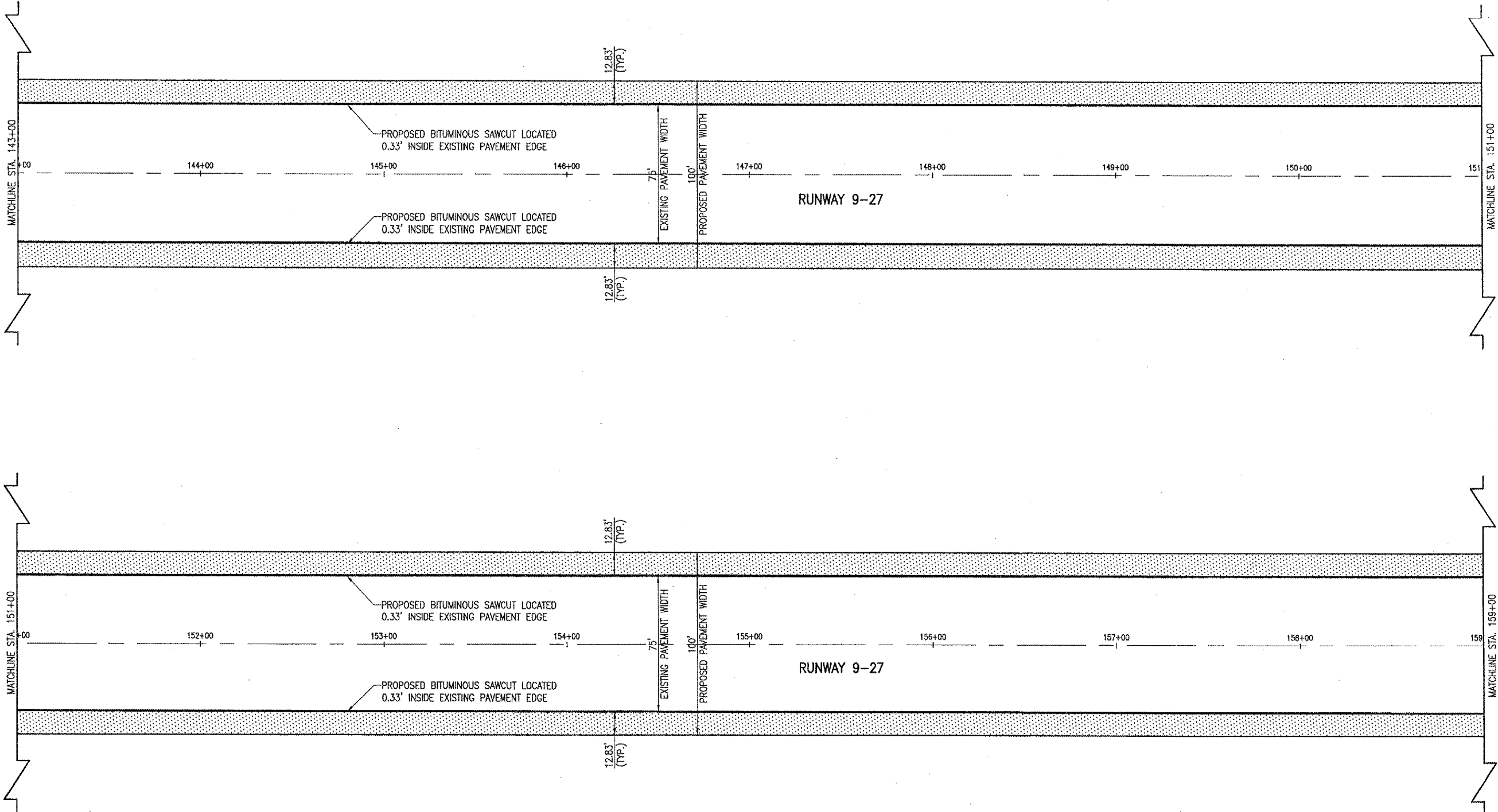
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 Springfield, Illinois 62703-2486  
 Offices Nationwide

**RUNWAY 9-27  
 WIDENING**

PROPOSED  
 CONSTRUCTION PLAN

STA. 127+00 TO STA. 143+00

RB014



**602-BITUMINOUS PRIME COAT NOTES:**

THE BITUMINOUS PRIME COAT (602) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR602 "BITUMINOUS PRIME COAT" AS STATED ON PAGE 58 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THE PROPOSED BITUMINOUS PRIME COAT SHALL BE PLACED ON THE PROPOSED AGGREGATE BASE COURSE PRIOR TO THE PLACEMENT OF THE FIRST LIFT OF PROPOSED BITUMINOUS BASE COURSE. THE PROPOSED AGGREGATE BASE COURSE SHALL HAVE A PRIME COAT OF BITUMINOUS MATERIAL APPLIED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.

THE PROPOSED BITUMINOUS PRIME COAT WILL BE PAID FOR UNDER ITEM:  
AR602510 BITUMINOUS PRIME COAT \_\_\_\_\_ 5,171 GAL.

**603-BITUMINOUS TACK COAT NOTES:**

THE BITUMINOUS TACK COAT (603) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR603 "BITUMINOUS TACK COAT" AS STATED ON PAGE 62 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

AN APPLICATION OF BITUMINOUS TACK WILL BE SPRAYED BEFORE THE PLACEMENT OF THE LIFT OF BITUMINOUS SURFACE COURSE AND IN BETWEEN LIFTS OF BITUMINOUS BASE COURSE. THE PLAN QUANTITY IS BASED ON THREE APPLICATIONS AT A RATE OF 0.1 GALLONS PER SQUARE YARD. THE PROPOSED BITUMINOUS PAVEMENT SHALL HAVE A TACK COAT OF BITUMINOUS MATERIAL APPLIED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.

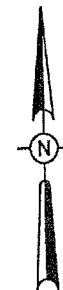
THE VERTICAL FACE OF ALL BUTT JOINTS WILL BE PAINTED WITH A LIQUID ASPHALT (TACK COAT).

THE FULL VERTICAL AND HORIZONTAL FACES OF THE PAVEMENT REMOVAL AREAS WILL BE PAINTED WITH A LIQUID ASPHALT (TACK COAT) PRIOR TO THE PLACEMENT OF THE BITUMINOUS SURFACE COURSE.

THE PROPOSED BITUMINOUS TACK COAT WILL BE PAID FOR UNDER ITEM:  
AR603510 BITUMINOUS TACK COAT \_\_\_\_\_ 6,411 GAL.

**LEGEND**

- EXISTING PAVEMENT
- PROPOSED PAVEMENT WIDENING
- PROPOSED BITUMINOUS PAVEMENT REMOVAL



0' 15' 30' 60'  
 FULL SIZE SCALE: 1" = 30'  
 HALF SIZE SCALE: 1" = 60'

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DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 I.L. PROJ.: RSY-3490 A.L.P. PROJ.: 3-17-0086-810

REV	DATE	BY	DESCRIPTION
1	01/13/04	CAH	LAYOUT
2	01/13/04	CC	CCC
3	03/05/04	CAH	REVIEWED

**HANSON**  
 Hanson Professional Services Inc.  
 1525 South Sixth Street  
 Springfield, Illinois 62703-2896  
 Offices Nationwide

**RUNWAY 9-27  
 WIDENING**  
 PROPOSED  
 CONSTRUCTION PLAN  
 STA. 143+00 TO STA. 159+00

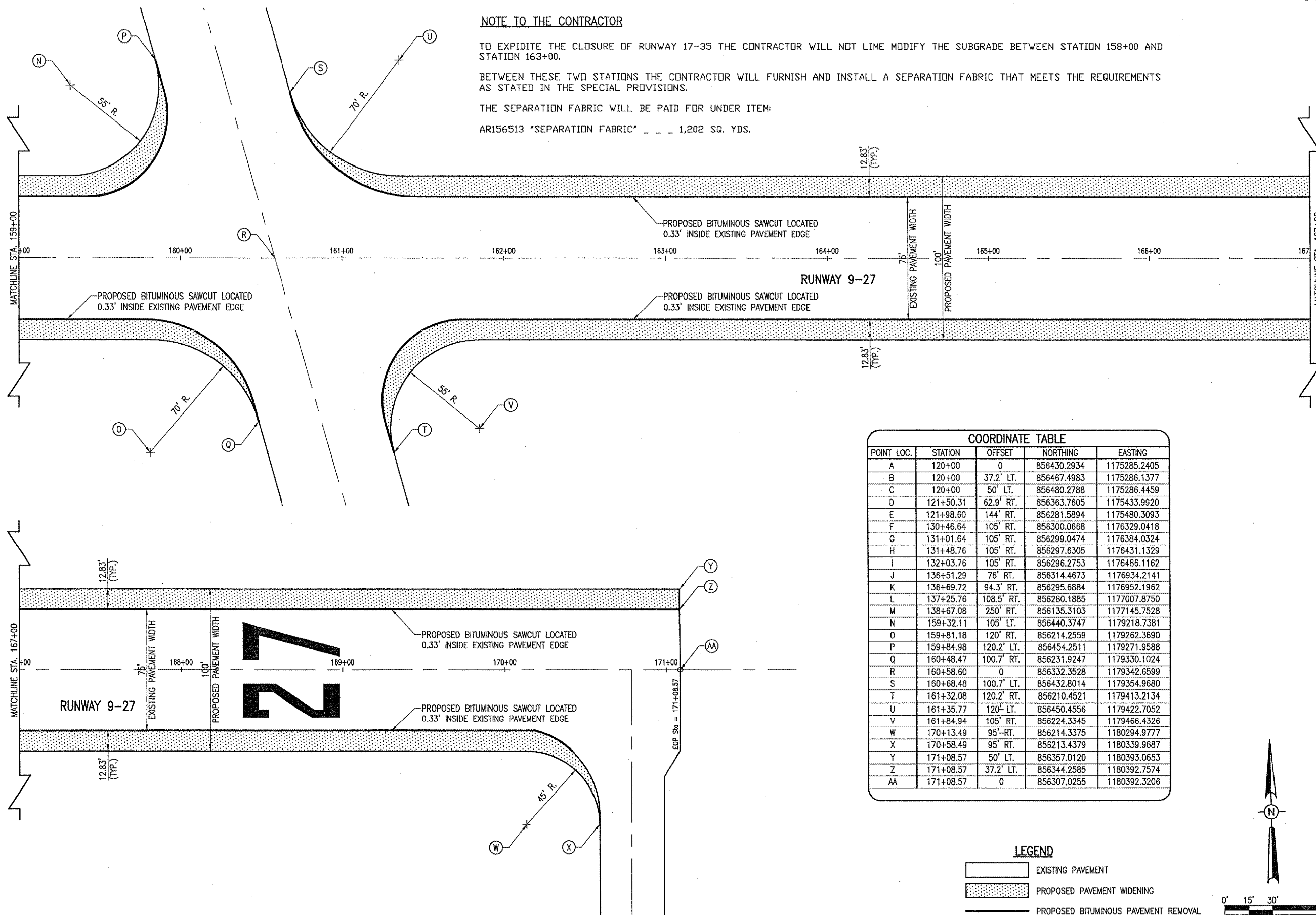
**NOTE TO THE CONTRACTOR**

TO EXPEDITE THE CLOSURE OF RUNWAY 17-35 THE CONTRACTOR WILL NOT LIME MODIFY THE SUBGRADE BETWEEN STATION 158+00 AND STATION 163+00.

BETWEEN THESE TWO STATIONS THE CONTRACTOR WILL FURNISH AND INSTALL A SEPARATION FABRIC THAT MEETS THE REQUIREMENTS AS STATED IN THE SPECIAL PROVISIONS.

THE SEPARATION FABRIC WILL BE PAID FOR UNDER ITEM:

AR156513 'SEPARATION FABRIC' \_ \_ \_ 1,202 SQ. YDS.

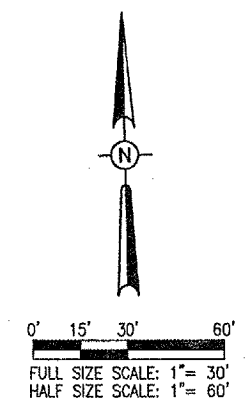


**COORDINATE TABLE**

POINT LOC.	STATION	OFFSET	NORTHING	EASTING
A	120+00	0	856430.2934	1175285.2405
B	120+00	37.2' LT.	856467.4983	1175286.1377
C	120+00	50' LT.	856480.2788	1175286.4459
D	121+50.31	62.9' RT.	856363.7605	1175433.9920
E	121+98.60	144' RT.	856281.5894	1175480.3093
F	130+46.64	105' RT.	856300.0668	1176329.0418
G	131+01.64	105' RT.	856299.0474	1176384.0324
H	131+48.76	105' RT.	856297.6305	1176431.1329
I	132+03.76	105' RT.	856296.2753	1176486.1162
J	136+51.29	76' RT.	856314.4673	1176934.2141
K	136+69.72	94.3' RT.	856295.6884	1176952.1962
L	137+25.76	108.5' RT.	856280.1885	1177007.8750
M	138+67.08	250' RT.	856135.3103	1177145.7528
N	159+32.11	105' LT.	856440.3747	1179218.7381
O	159+81.18	120' RT.	856214.2559	1179262.3690
P	159+84.98	120.2' LT.	856454.2511	1179271.9588
Q	160+48.47	100.7' RT.	856231.9247	1179330.1024
R	160+58.60	0	856332.3528	1179342.6599
S	160+68.48	100.7' LT.	856432.8014	1179354.9680
T	161+32.08	120.2' RT.	856210.4521	1179413.2134
U	161+35.77	120' LT.	856450.4556	1179422.7052
V	161+84.94	105' RT.	856224.3345	1179466.4326
W	170+13.49	95' RT.	856214.3375	1180294.9777
X	170+58.49	95' RT.	856213.4379	1180339.9687
Y	171+08.57	50' LT.	856357.0120	1180393.0653
Z	171+08.57	37.2' LT.	856344.2585	1180392.7574
AA	171+08.57	0	856307.0255	1180392.3206

**LEGEND**

- EXISTING PAVEMENT
- PROPOSED PAVEMENT WIDENING
- PROPOSED BITUMINOUS PAVEMENT REMOVAL






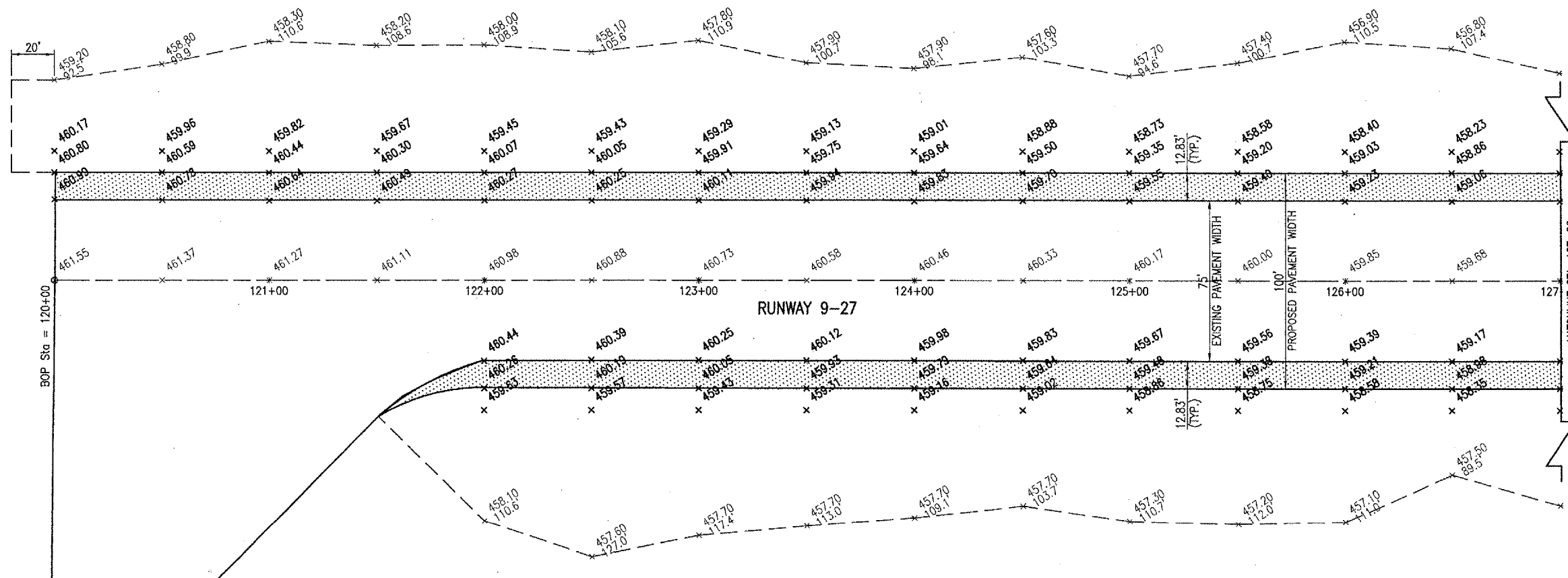
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DATE	REVISION				
<p><b>ROBINSON MUNICIPAL AIRPORT</b>  <b>ROBINSON</b>  <b>CRAWFORD COUNTY, ILLINOIS</b></p>					
<p>IL. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10</p>					
<p>HB Project No. 838-04RWY                  Diagram R-121CON.DWG                  Scale 1" = 30'                  Date 01/13/04</p>		<p>LAYOUT CCC 01/13/04                  DRAWN CCC 01/13/04                  REVIEWED CAH 03/05/04</p>	<p><b>HANSON</b>                  Hanson Professional Services Inc.                  1525 South Sixth Street                  Springfield, Illinois 62703-2886                  Offices Nationwide</p>		
<p><b>RUNWAY 9-27</b>  <b>WIDENING</b>                  PROPOSED                  CONSTRUCTION PLAN                  STA. 159+00 TO STA. 171+00</p>					
<p style="font-size: 2em; font-weight: bold;">7</p>					
<p>7 of 75 sheets</p>					

QUANTITIES - SEEDING & MULCHING				
ITEM No.	DESCRIPTION	UNIT	TOTAL QUANTITY	AS BUILT QUANTITY
AR901510	SEEDING	ACRE	12	
AR908510	MULCHING	ACRE	12	

**LEGEND**

-  EXISTING PAVEMENT
-  PROPOSED PAVEMENT WIDENING
-  453.60  
\* 452.00  
\* 151.9
- PROPOSED ELEVATION
- EXISTING CATCH ELEVATION
- PROPOSED SEEDING LIMITS



**901 SEEDING NOTES**

THE PROPOSED SEEDING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ITEM 901 "SEEDING" AS STATED ON PAGE 120 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

ALL DISTURBED AREAS LOCATED WITHIN THE PROPOSED GRADING AND SEEDING LIMITS WILL BE SEEDDED IN ACCORDANCE WITH THE ABOVE NOTED SPECIFICATION. ALL AREAS OUTSIDE THE DESIGNATED GRADING AND SEEDING LIMITS WILL ALSO BE SEEDDED BUT AT THE CONTRACTOR'S OWN EXPENSE.

ALL MATERIALS AND/OR DEBRIS RESULTING FROM THE SEEDING OPERATIONS WILL BE REMOVED FROM THE PAVEMENTS AND MISCELLANEOUS STRUCTURES PRIOR TO OPENING THE RUNWAY.

901-3.4 MAINTENANCE OF SEEDDED AREAS. DELETE THE SECOND PARAGRAPH OF THIS SECTION AND ADD THE FOLLOWING:

"THE CONTRACTOR WILL BE REQUIRED TO ESTABLISH A GOOD STAND OF GRASS OF UNIFORM COLOR AND DENSITY TO THE SATISFACTION OF THE RESIDENT ENGINEER. IF AT THE TIME WHEN THE CONTRACT HAS BEEN OTHERWISE COMPLETED, IT IS NOT POSSIBLE TO MAKE AN ADEQUATE DETERMINATION OF COLOR, DENSITY, AND UNIFORMITY OF SUCH STAND OF GRASS, THE ITEM OF WORK WILL BE REVIEWED AT A LATER DATE DETERMINED BY THE ILLINOIS DIVISION OF AERONAUTICS."

DATE SEEDING COMPLETED \_\_\_\_\_

THE PROPOSED SEEDING WILL BE PAID FOR UNDER ITEMS: AR901510 SEEDING \_\_\_\_\_ 12 ACRES

**908 MULCHING NOTES**

THE PROPOSED MULCHING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ITEM 908 "MULCHING" AS STATED ON PAGE 127 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM SHALL CONSIST OF THE FURNISHING, TRANSPORTING, AND PLACING MULCH OVER THE SEEDDED AREA. DISTURBED AREAS OUTSIDE THE GRADING LIMITS SHALL ALSO BE MULCHED AND PARTICIPATION WILL BE THE SAME AS FOR SEEDDED AREAS.

908-2.1 MULCH MATERIAL: THE CONTRACTOR MAY EITHER FURNISH STRAW OR HYDROMULCH AS THE TYPE OF MULCH MATERIAL TO BE USED ON THIS PROJECT.

908-3.4 STRUCTURE CLEANING: AFTER THE PROPOSED MULCH HAS BEEN APPLIED, THE CONTRACTOR WILL CLEAN THE MULCH OFF ALL STRUCTURES (DRAINAGE, ELECTRICAL, LIGHTS, ETC.).

DATE MULCHING COMPLETED \_\_\_\_\_

THE PROPOSED MULCHING WILL BE PAID FOR UNDER ITEMS:  
AR908510 MULCHING \_\_\_\_\_ 12 ACRES

**152-UNCLASSIFIED EXCAVATION NOTES:**

THE PROPOSED UNCLASSIFIED EXCAVATION SHALL BE PLACED IN ACCORDANCE WITH ITEM 152 "EXCAVATION AND EMBANKMENT" AS STATED ON PAGE 25 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THE EARTH SUBGRADE WILL BE FIRST ROUGH CUT TO THE SPECIFIED ELEVATIONS, THE ELEVATIONS SHOWN ON THE STAKING PLAN ARE FOR FINISHED PAVEMENT. SUBGRADE ELEVATIONS WILL BE THE GRADE SHOWN MINUS THE PAVEMENT THICKNESS (INCLUDING BASE).

MATERIAL TO BE USED FOR SHOULDERING WILL BE STORED OUTSIDE OF THE PROPOSED PAVEMENT AREA AND WITHIN THE GRADING LIMITS.

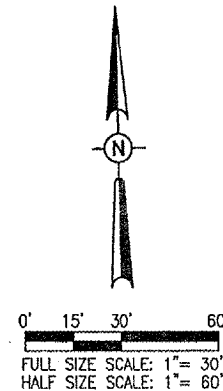
THE MATERIAL TO BE USED FOR THE SHOULDERING WILL BE TOPSOIL OBTAINED FROM THE ON SITE UNCLASSIFIED EXCAVATION.

THE EXCAVATED AREAS WILL BE COMPACTED IN ACCORDANCE WITH PROCEDURES FOR AIRCRAFT WEIGHING LESS THAN 60,000 POUNDS.

THE PROPOSED SHOULDER MATERIAL WILL ONLY REQUIRE "LIGHT COMPACTION" TO THE SATISFACTION OF THE RESIDENT ENGINEER.

ALL EARTHWORK WILL BE CLASSIFIED AS "UNCLASSIFIED EXCAVATION".

THE PROPOSED UNCLASSIFIED EXCAVATION WILL BE PAID FOR UNDER ITEM:  
AR152410 UNCLASSIFIED EXCAVATION \_\_\_\_\_ 6,019 C.Y.



DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

PROJECT No. 838-04RWY	DATE 01/13/04
PLAN No. R-191STK.DWG	DATE 01/13/04
SCALE 1"=30'	DATE 01/13/04
DATE 01/13/04	DATE 03/05/04
LAYOUT CCC	CAH
DRAWN CCC	CAH
REVIEWED	CAH

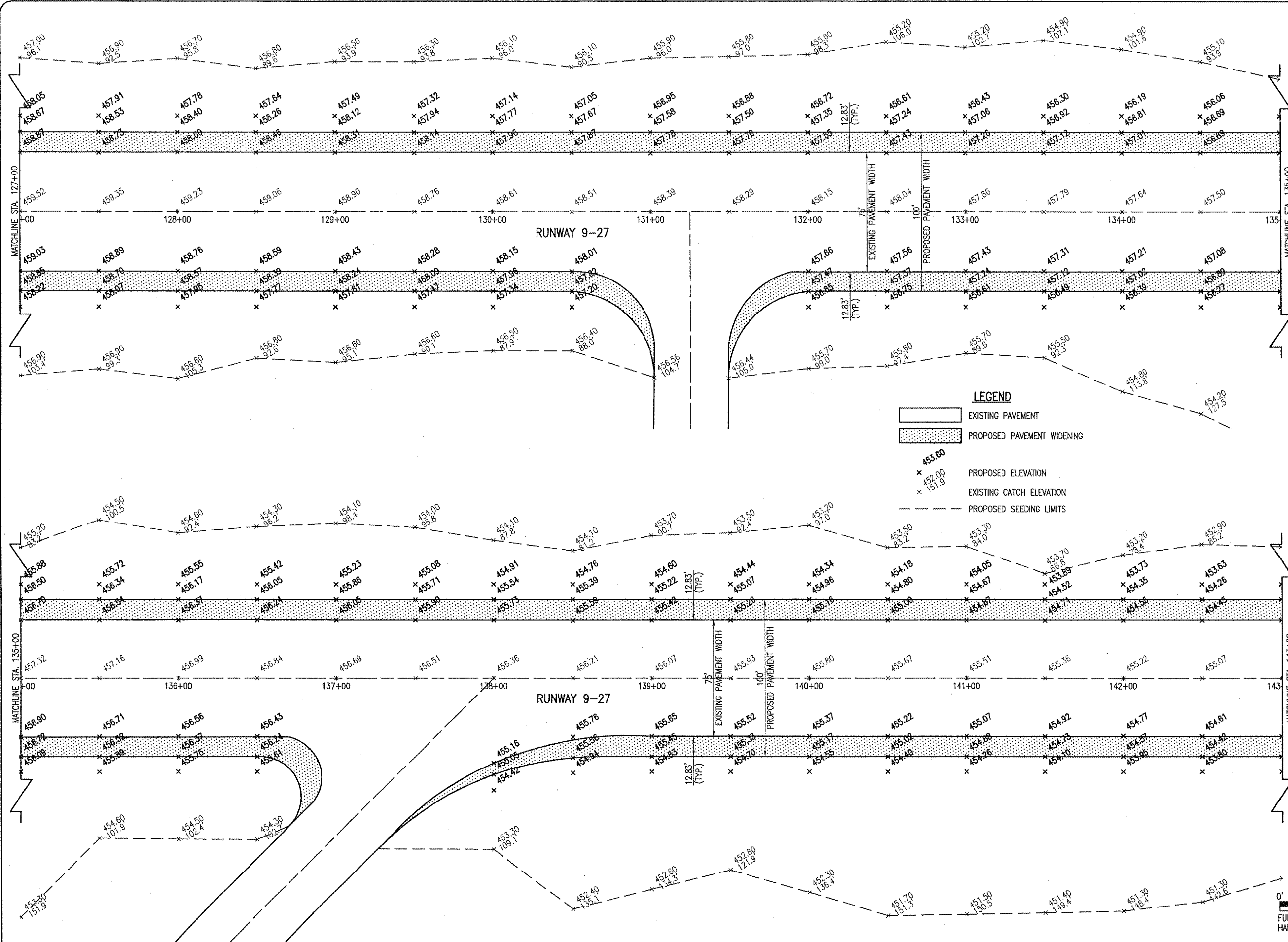


RUNWAY 9-27  
WIDENING  
PROPOSED  
STAKING PLAN  
STA. 120+00 TO STA. 127+00

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**LEGEND**

- EXISTING PAVEMENT
- PROPOSED PAVEMENT WIDENING
- PROPOSED ELEVATION
- EXISTING CATCH ELEVATION
- PROPOSED SEEDING LIMITS

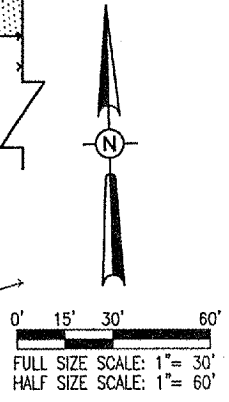
BY	
REVISION	
DATE	
ROBINSON MUNICIPAL AIRPORT ROBINSON CRAWFORD COUNTY, ILLINOIS	
I.L. PROJ.: RSV-3490      A.I.P. PROJ.: 3-17-0086-B10	

IGI Project No. 839-04RWY Filename: R-191STK.DWG Scale: 1"=30' Date: 01/13/04	LAYOUT: CCC 01/13/04 DRAWN: CCC 01/13/04 REVIEWED: CAH 03/05/04
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**HANSON**

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**RUNWAY 9-27  
 WIDENING**  
 PROPOSED  
 STAKING PLAN  
 STA. 127+00 TO STA. 143+00



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**LEGEND**

- EXISTING PAVEMENT
- PROPOSED PAVEMENT WIDENING
- PROPOSED ELEVATION
- EXISTING CATCH ELEVATION
- PROPOSED SEEDING LIMITS

DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS

IL PROJ.: RSV-3490 A.I.P. PROJ.: J-17-0086-B10

REVISED	CAH	03/05/04

HB Project No. 838-04RWY  
 Filename R-191STK.DWG  
 Scale 1"=30'  
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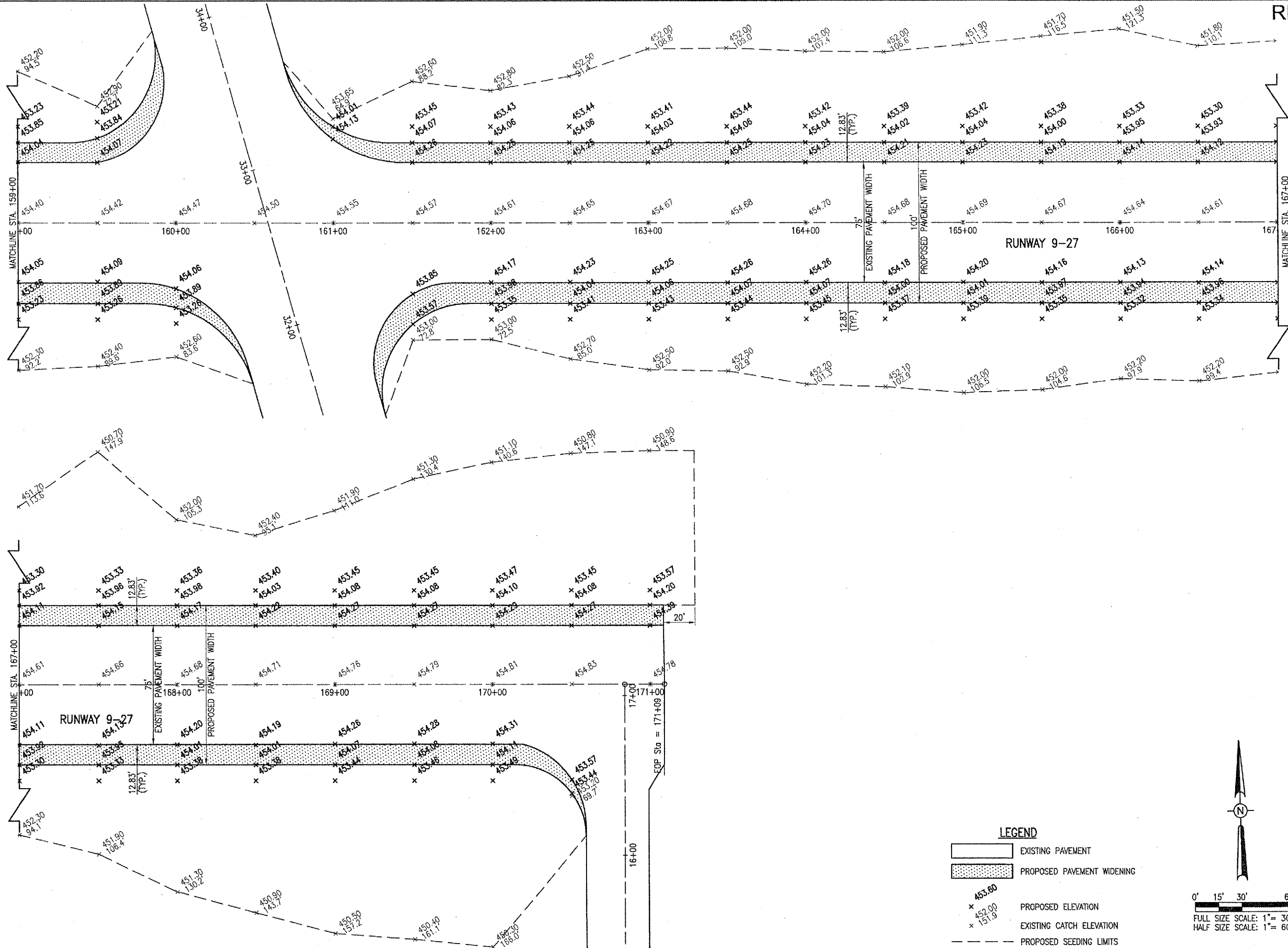
**RUNWAY 9-27  
 WIDENING**

PROPOSED  
 STAKING PLAN

STA. 143+00 TO STA. 159+00

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**LEGEND**

- EXISTING PAVEMENT
- PROPOSED PAVEMENT WIDENING
- PROPOSED ELEVATION
- EXISTING CATCH ELEVATION
- PROPOSED SEEDING LIMITS

0' 15' 30' 60'  
 FULL SIZE SCALE: 1" = 30'  
 HALF SIZE SCALE: 1" = 60'

DATE	REVISION	BY

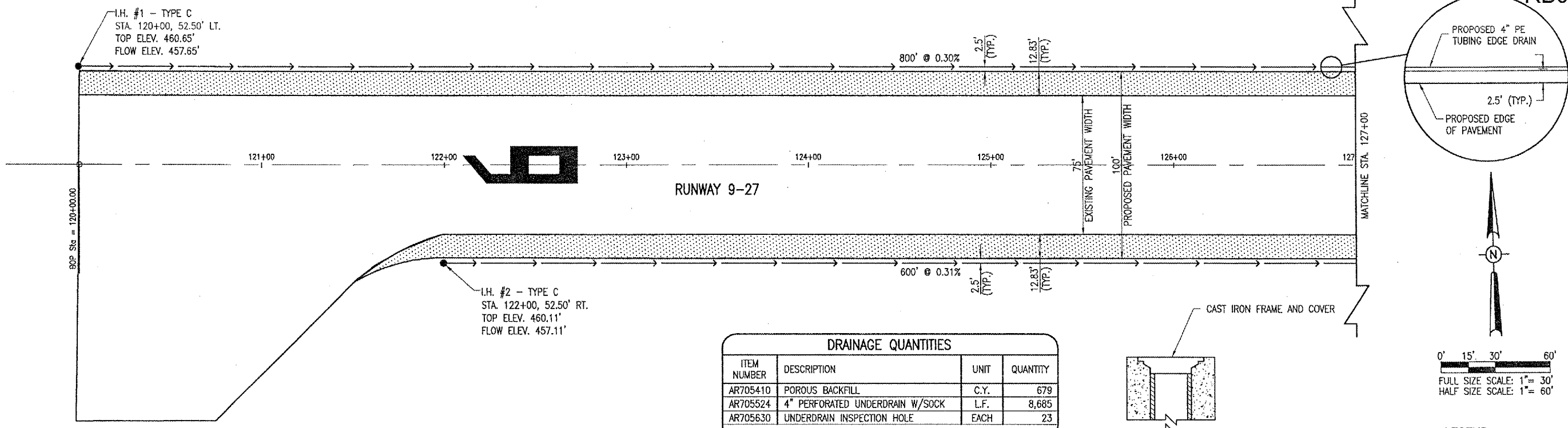
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS

IL PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-810

Project No. 838-04RWY	
Filename R-191STK.DWG	
Scale 1"=30'	
Date 01/13/04	
LAYOUT	CCC 01/13/04
DRAWN	CCC 01/13/04
REVIEWED	CAH 03/05/04

Hanson Professional Services Inc.  
 1526 South Sixth Street  
 Springfield, IL 62768-2886  
 Chicago, Illinois

RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 STAKING PLAN  
 STA. 159+00 TO STA. 171+09



**DRAINAGE QUANTITIES**

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
AR705410	POROUS BACKFILL	C.Y.	679
AR705524	4" PERFORATED UNDERDRAIN W/SOCK	L.F.	8,685
AR705630	UNDERDRAIN INSPECTION HOLE	EACH	23

**LEGEND**

- EXISTING PAVEMENT
- PROPOSED PAVEMENT WIDENING
- PROPOSED UNDERDRAINS
- PROPOSED INSPECTION HOLE
- EXISTING R.C.C.P.

**705-UNDERDRAIN NOTES:**

THE PROPOSED UNDERDRAIN PIPE WILL BE CONSTRUCTED IN ACCORDANCE WITH ITEM 705 "PIPE UNDERDRAINS FOR AIRPORTS" AS STATED ON PAGE 109 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING 4" P.E. TUBING (WRAPPED) AND UNDERDRAIN INSPECTION HOLES AT THE LOCATIONS AND TO THE GRADES SHOWN ON THE CONSTRUCTION PLANS.

705-3.3 LAYING AND INSTALLING PIPE. REVISE THIS SECTION AS FOLLOWS:

"PIPE DRAINS SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER. THE PIPE SHALL BE BEDDED IN THE UNDERLYING MATERIAL TO A DEPTH NOT LESS THAN 10 PERCENT OF THE EXTERNAL DIAMETER OF THE PIPE, AND WHERE TRENCHING IS REQUIRED, THE TRENCH SHALL HAVE A WIDTH OF NOT LESS THAN 12 IN. THE BOTTOM OF THE TRENCH SHALL BE COMPACTED IN A MANNER MEETING THE APPROVAL OF THE ENGINEER.

JOINTS AND FITTINGS MAY BE ASSEMBLED WITHOUT GASKETS OR SOLVENT CEMENT IF THE JOINT IS SAND TIGHT AND THE SPIGOT ENTERS THE SOCKET NOT LESS THAN 1/3 OF THE SOCKET DEPTH FOR SOLVENT CEMENT JOINTS AND FULL-DEPTH FOR ELASTOMERIC GASKET JOINTS.

NO PIPE SHALL BE PLACED IN THE TRENCH UNTIL IT AND THE PREPARED FOUNDATION HAVE BEEN APPROVED BY THE RESIDENT ENGINEER. THE PIPE SHALL BE LAID SO THAT THE FLOWLINE WILL BE AT THE GRADE SHOWN ON THE PLANS OR ESTABLISHED BY THE RESIDENT ENGINEER. THE PERMISSIBLE MINIMUM COVER OVER A PIPE SHALL BE 6 IN.

LAYING OF PIPES SHALL COMMENCE AT THE OUTLET END AND PROCEED TOWARD THE INLET END WITH THE PIPES TRUE TO LINE AND GRADE.

THE ENDS OF THE PIPE SHALL BE CAREFULLY CLEANED BEFORE THEY ARE PLACED, AND SHALL BE PLACED TO AVOID UNNECESSARY HANDLING ON THE FOUNDATION. AS EACH LENGTH OF PIPE IS LAID, THE ENDS OF THE PIPE SHALL BE PROTECTED TO PREVENT THE ENTRANCE OF ANY MATERIAL.

LONGITUDINAL LAPS SHALL BE PLACED AT THE SIDES AND SEPARATE SECTIONS OF PIPE SHALL BE JOINED WITH TIGHTLY-DRAWN, APPROVED CONNECTING BANDS.

THE TRENCH SHALL BE BACKFILLED WITH SELECT MATERIAL, MEETING THE APPROVAL OF THE ENGINEER, PLACED IN 8 IN. LAYERS, LOOSE MEASUREMENT, AND COMPACTED TO THE ENGINEER'S SATISFACTION.

705-3.6 BACKFILLING; ADD THE FOLLOWING TO THIS SECTION:

"THE EDGE DRAIN TRENCH WILL BE BACKFILLED WITH POROUS BACKFILL (CA-14 OR CA-16) IN ACCORDANCE WITH THE DETAIL ON THE CONSTRUCTION PLANS. THE POROUS BACKFILL WILL BE COMPACTED IN ACCORDANCE WITH THE SPECIFICATION SET FORTH FOR GRANULAR MATERIAL BACKFILL."

THE PROPOSED UNDERDRAIN PIPE WILL BE PAID FOR UNDER ITEMS:

- AR705410 POROUS BACKFILL \_\_\_\_\_ 679 C.Y.
- AR705524 4" PERFORATED UNDERDRAIN W/SOCK \_\_\_\_\_ 8,685 L.F.
- AR705530 UNDERDRAIN INSPECTION HOLE \_\_\_\_\_ 23 EACH

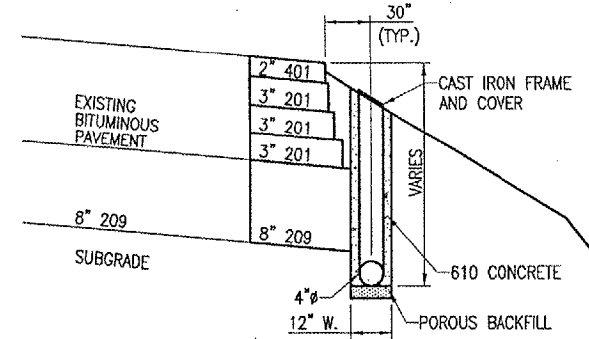
**INSPECTION HOLE NOTES**

DIAMETER OF PIPE AS SPECIFIED.

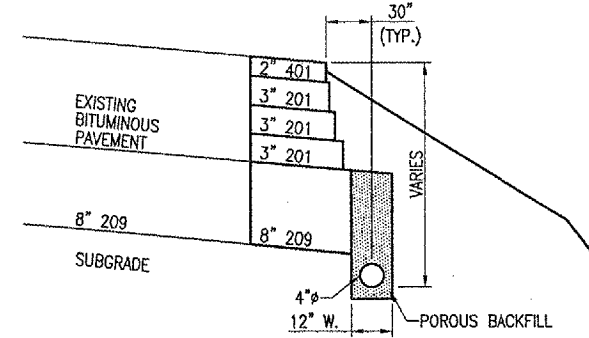
TOP OF INSPECTION HOLES SHALL BE 1" BELOW ADJACENT PAVEMENT EDGE.

1/2" CHAMFER TO BE USED ON ALL EXPOSED EDGES OF INSPECTION HOLES.

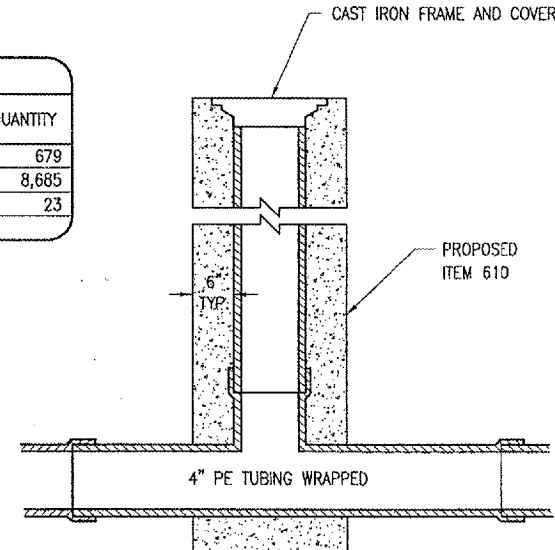
THE CONCRETE SHALL BE STRUCTURAL PORTLAND CEMENT CONCRETE (NON- REINFORCED)



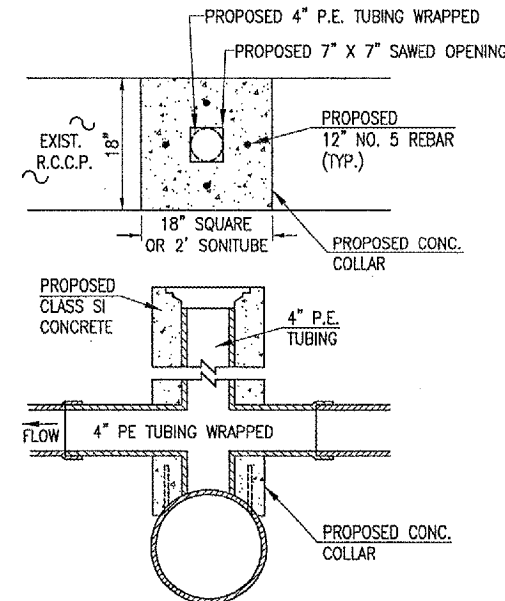
**TYPICAL SECTION FOR INSPECTION HOLE**  
"NOT TO SCALE"



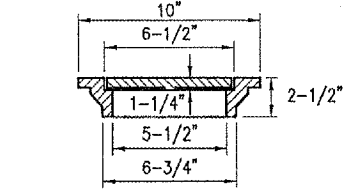
**TYPICAL SECTION FOR EDGE DRAINS**  
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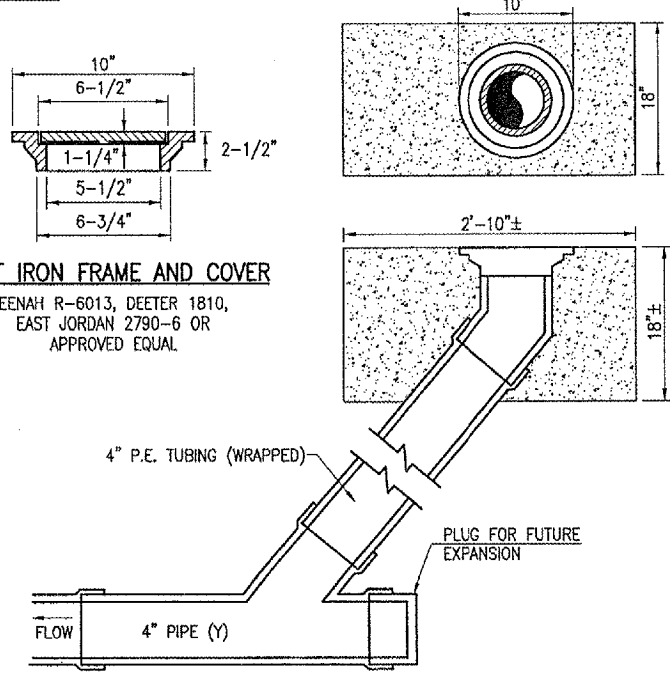
**INSPECTION HOLE-TYPE A**  
"NOT TO SCALE"



**INSPECTION HOLE DETAIL-TYPE B**  
"NOT TO SCALE"



**CAST IRON FRAME AND COVER**  
NEENAH R-6013, DEETER 1810, EAST JORDAN 2790-6 OR APPROVED EQUAL



**INSPECTION HOLE-TYPE C**  
"NOT TO SCALE"

JUN 29, 2006 8:34 AM CAH I:\AIRPORTS\ROBINSON\B38-04RWY\AIRPORT\DRN\DRN.DWG - 120+00 TO 127+00

DATE	REVISION

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

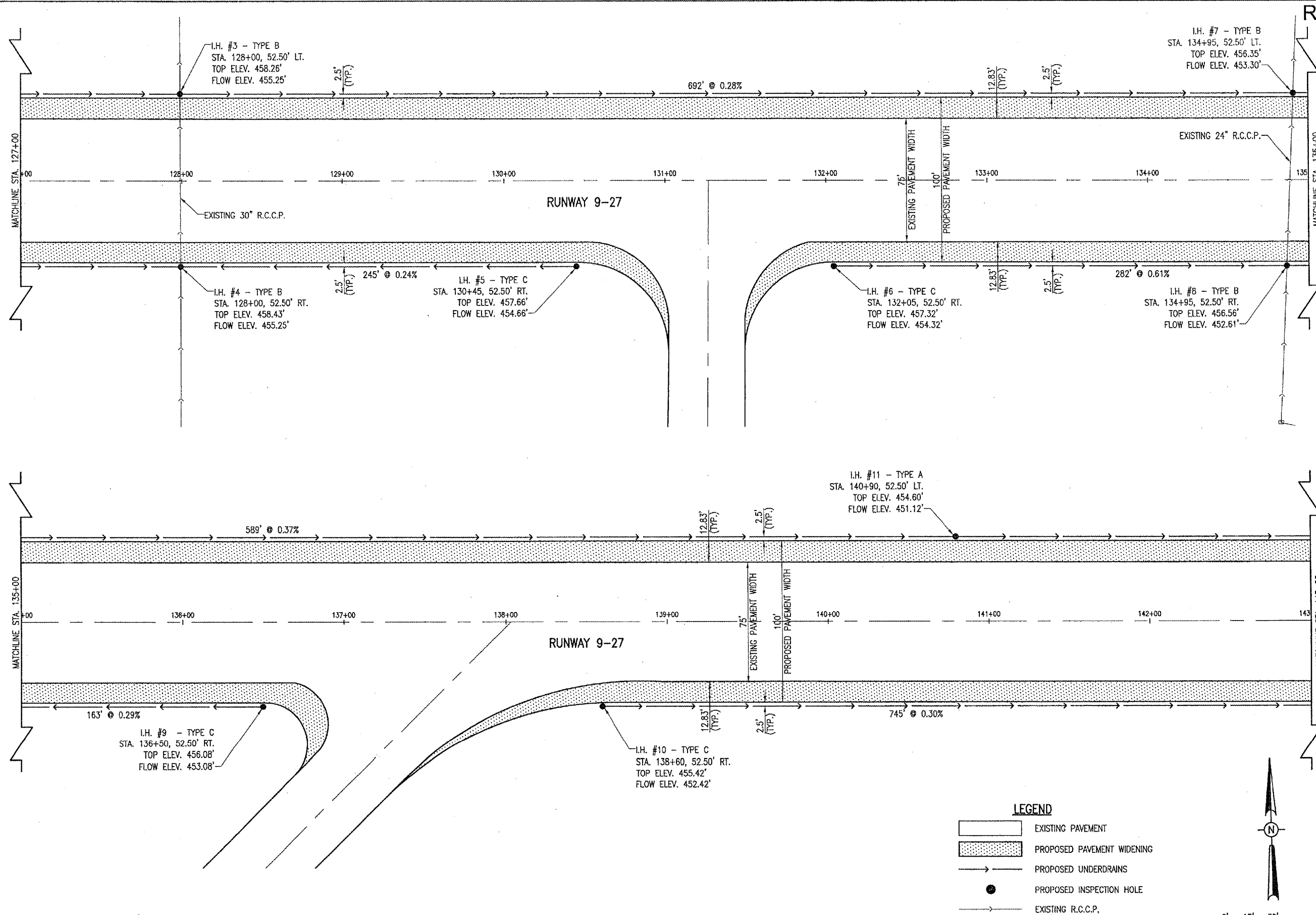
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IL PROJ.: RSV-3490

HEI Project No.	038-04RWY	DATE	01/13/04
Drawn by	R-131DRN.DWG	CCC	01/13/04
Scale	1"=30'	CCC	01/13/04
Date	01/13/04	CAH	03/05/04

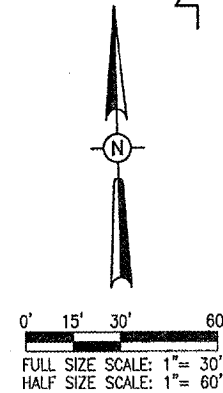
**HANSON**

Hanson Professional Services Inc.  
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Springfield, Illinois 62703-2886  
Offices Nationwide

RUNWAY 9-27  
WIDENING  
PROPOSED  
DRAINAGE PLAN  
STA. 120+00 TO STA. 127+00



- LEGEND**
- EXISTING PAVEMENT
  - PROPOSED PAVEMENT WIDENING
  - PROPOSED UNDERDRAINS
  - PROPOSED INSPECTION HOLE
  - EXISTING R.C.C.P.



RB014

DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS

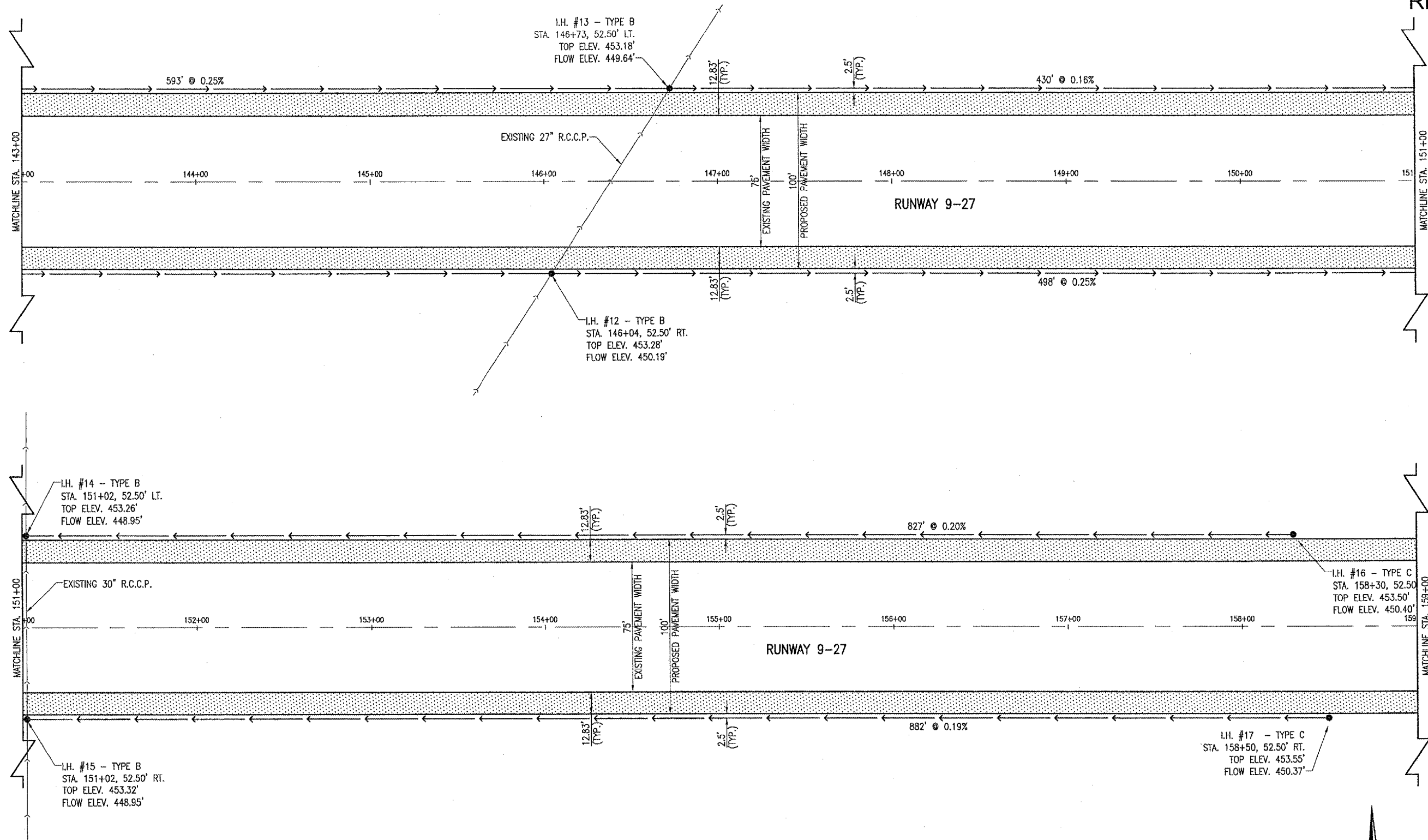
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HE. Project No. 838-04RWY		
Plan No. R-131DRN.DWG		
Scale 1"=30'		
Date 01/13/04		
LAYOUT	CCC	01/13/04
DRAWN	CCC	01/13/04
REVIEWED	CAH	03/05/04

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**RUNWAY 9-27  
 WIDENING**

PROPOSED  
 DRAINAGE PLAN  
 STA. 127+00 TO STA. 143+00



I.H. #13 - TYPE B  
 STA. 146+73, 52.50' LT.  
 TOP ELEV. 453.18'  
 FLOW ELEV. 449.64'

I.H. #12 - TYPE B  
 STA. 146+04, 52.50' RT.  
 TOP ELEV. 453.28'  
 FLOW ELEV. 450.19'

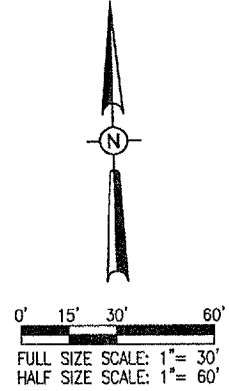
I.H. #14 - TYPE B  
 STA. 151+02, 52.50' LT.  
 TOP ELEV. 453.26'  
 FLOW ELEV. 448.95'

I.H. #15 - TYPE B  
 STA. 151+02, 52.50' RT.  
 TOP ELEV. 453.32'  
 FLOW ELEV. 448.95'

I.H. #16 - TYPE C  
 STA. 158+30, 52.50'  
 TOP ELEV. 453.50'  
 FLOW ELEV. 450.40'

I.H. #17 - TYPE C  
 STA. 158+50, 52.50' RT.  
 TOP ELEV. 453.55'  
 FLOW ELEV. 450.37'

- LEGEND**
- EXISTING PAVEMENT
  - PROPOSED PAVEMENT WIDENING
  - PROPOSED UNDERDRAINS
  - PROPOSED INSPECTION HOLE
  - EXISTING R.C.C.P.



DATE	REVISION	BY

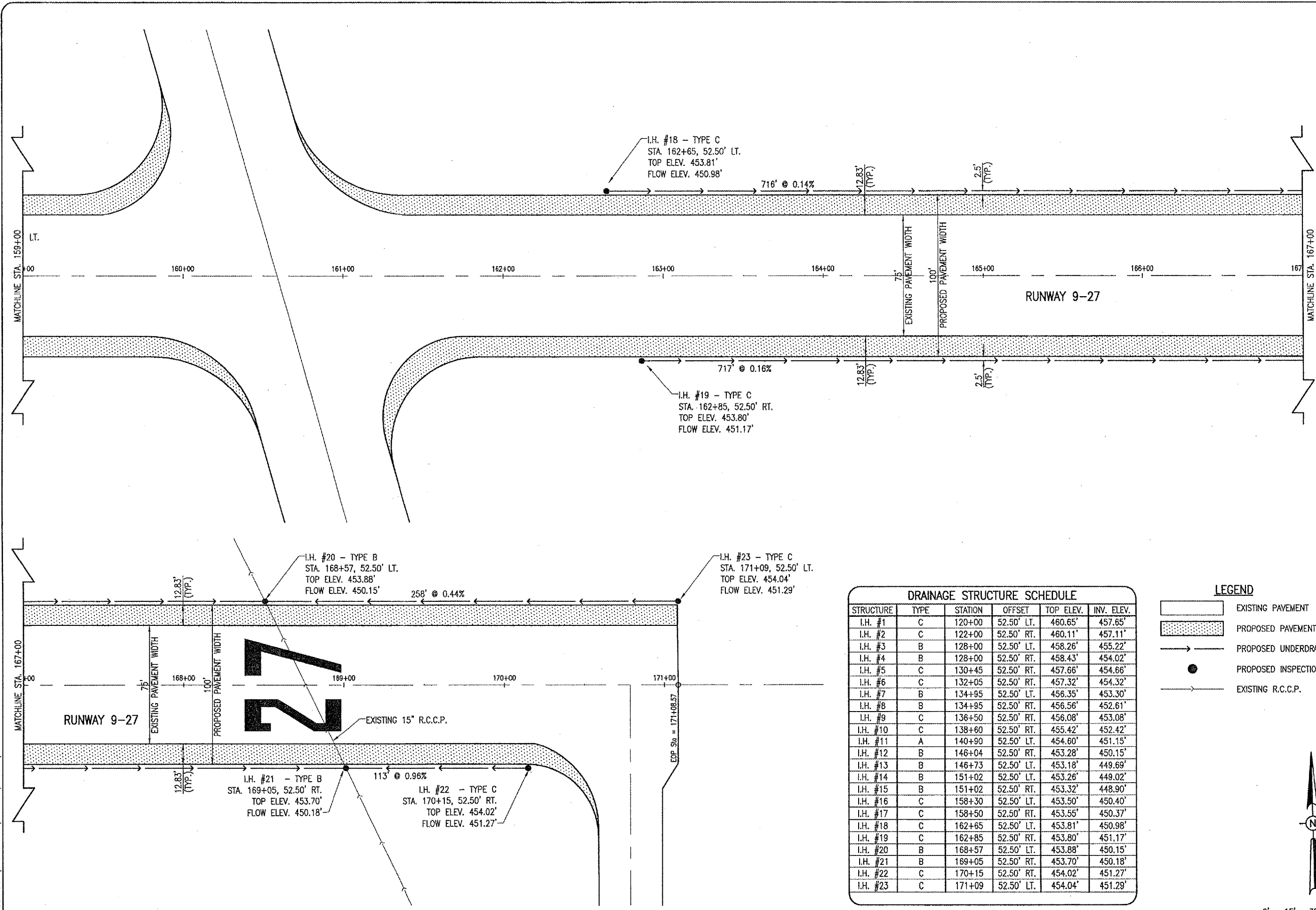
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 I.L. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-810

Project No. 835-04RWY	
Drawings R-13\DRN.DWG	
Scale 1"=30'	
Date 01/13/04	
LAYOUT	CCC 01/13/04
DRAWN	CCC 01/13/04
REVIEWED	CAH 03/05/04



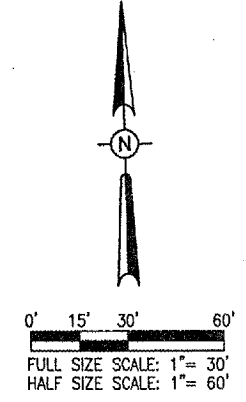
**RUNWAY 9-27  
 WIDENING**  
 PROPOSED  
 DRAINAGE PLAN  
 STA. 143+00 TO STA. 159+00

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DRAINAGE STRUCTURE SCHEDULE						
STRUCTURE	TYPE	STATION	OFFSET	TOP ELEV.	INV. ELEV.	
I.H. #1	C	120+00	52.50' LT.	460.65'	457.65'	
I.H. #2	C	122+00	52.50' RT.	460.11'	457.11'	
I.H. #3	B	128+00	52.50' LT.	458.26'	455.22'	
I.H. #4	B	128+00	52.50' RT.	458.43'	454.02'	
I.H. #5	C	130+45	52.50' RT.	457.66'	454.66'	
I.H. #6	C	132+05	52.50' RT.	457.32'	454.32'	
I.H. #7	B	134+95	52.50' LT.	456.35'	453.30'	
I.H. #8	B	134+95	52.50' RT.	456.56'	452.61'	
I.H. #9	C	136+50	52.50' RT.	456.08'	453.08'	
I.H. #10	C	138+60	52.50' RT.	455.42'	452.42'	
I.H. #11	A	140+90	52.50' LT.	454.60'	451.15'	
I.H. #12	B	146+04	52.50' RT.	453.28'	450.15'	
I.H. #13	B	146+73	52.50' LT.	453.18'	449.69'	
I.H. #14	B	151+02	52.50' LT.	453.28'	449.02'	
I.H. #15	B	151+02	52.50' RT.	453.32'	448.90'	
I.H. #16	C	158+30	52.50' LT.	453.50'	450.40'	
I.H. #17	C	158+50	52.50' RT.	453.55'	450.37'	
I.H. #18	C	162+65	52.50' LT.	453.81'	450.98'	
I.H. #19	C	162+85	52.50' RT.	453.80'	451.17'	
I.H. #20	B	168+57	52.50' LT.	453.88'	450.15'	
I.H. #21	B	169+05	52.50' RT.	453.70'	450.18'	
I.H. #22	C	170+15	52.50' RT.	454.02'	451.27'	
I.H. #23	C	171+09	52.50' LT.	454.04'	451.29'	

- LEGEND**
- EXISTING PAVEMENT
  - PROPOSED PAVEMENT WIDENING
  - PROPOSED UNDERDRAINS
  - PROPOSED INSPECTION HOLE
  - EXISTING R.C.C.P.



DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

IL PROJ: RSV-3490 A.I.P. PROJ: 3-17-0086-B10

REVISION	DATE	BY
LAYOUT	01/13/04	CCC
DRAWN	01/13/04	CCC
REVIEWED	03/05/04	CAH

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RUNWAY 9-27  
WIDENING  
PROPOSED  
DRAINAGE PLAN  
STA. 159+00 TO STA. 171+09

DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

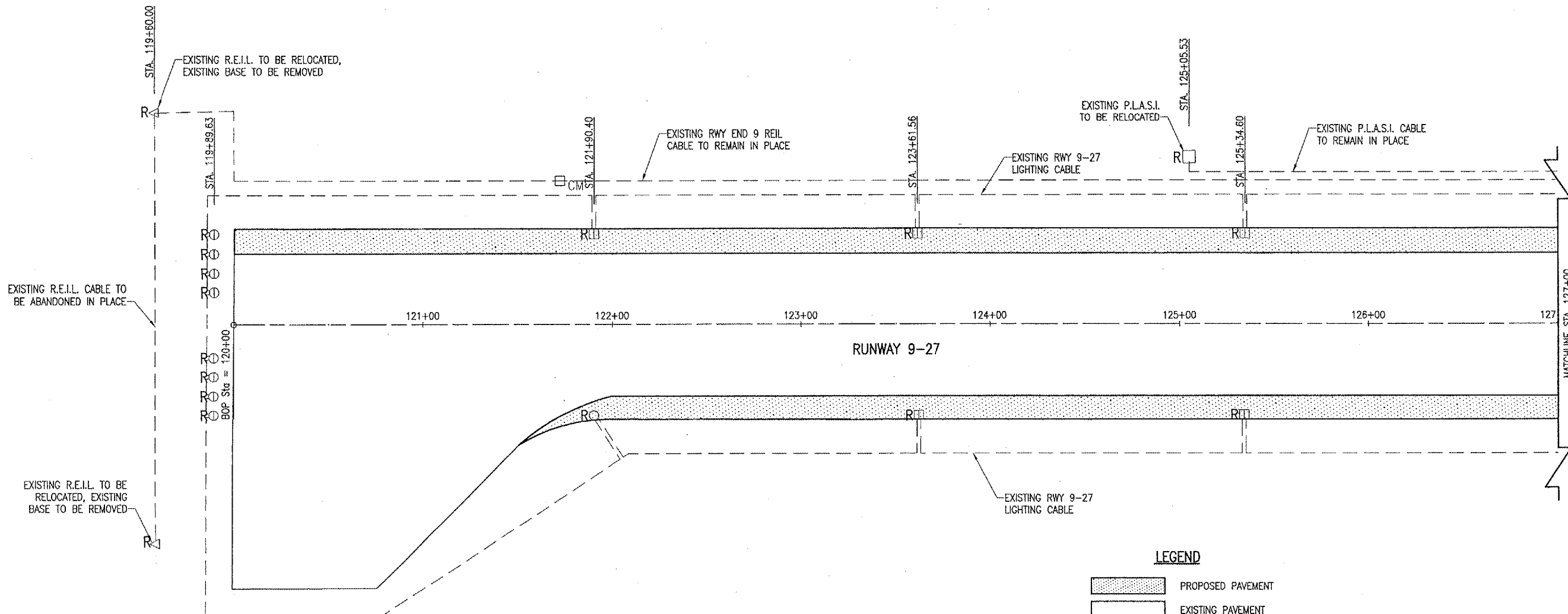
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A.I.P. PROJ.: 3-17-0086-B10

U.E. Project No. 838-04RWY	CCC	01/13/04
Filename: R-141ELE.DWG	CCC	01/13/04
Scale: 1"=30'	CAH	03/05/04
Date: 01/13/04		

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RUNWAY 9-27  
WIDENING

EXISTING  
ELECTRICAL PLAN  
STA. 120+00 TO STA. 127+00



EXISTING R.E.I.L. CABLE TO BE ABANDONED IN PLACE

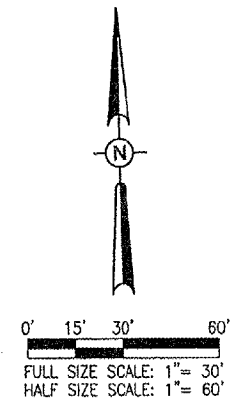
EXISTING R.E.I.L. TO BE RELOCATED, EXISTING BASE TO BE REMOVED

**LEGEND**

- PROPOSED PAVEMENT
- EXISTING PAVEMENT
- EXISTING ELECTRICAL CABLE
- EXISTING STAKE MOUNTED THRESHOLD LIGHT
- EXISTING STAKE MOUNTED RUNWAY LIGHT
- EXISTING STAKE MOUNTED TAXIWAY LIGHT
- EXISTING R.E.I.L.
- EXISTING P.L.A.S.I.
- LIGHTS/SIGNS TO BE RELOCATED
- EXISTING CABLE MARKER

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

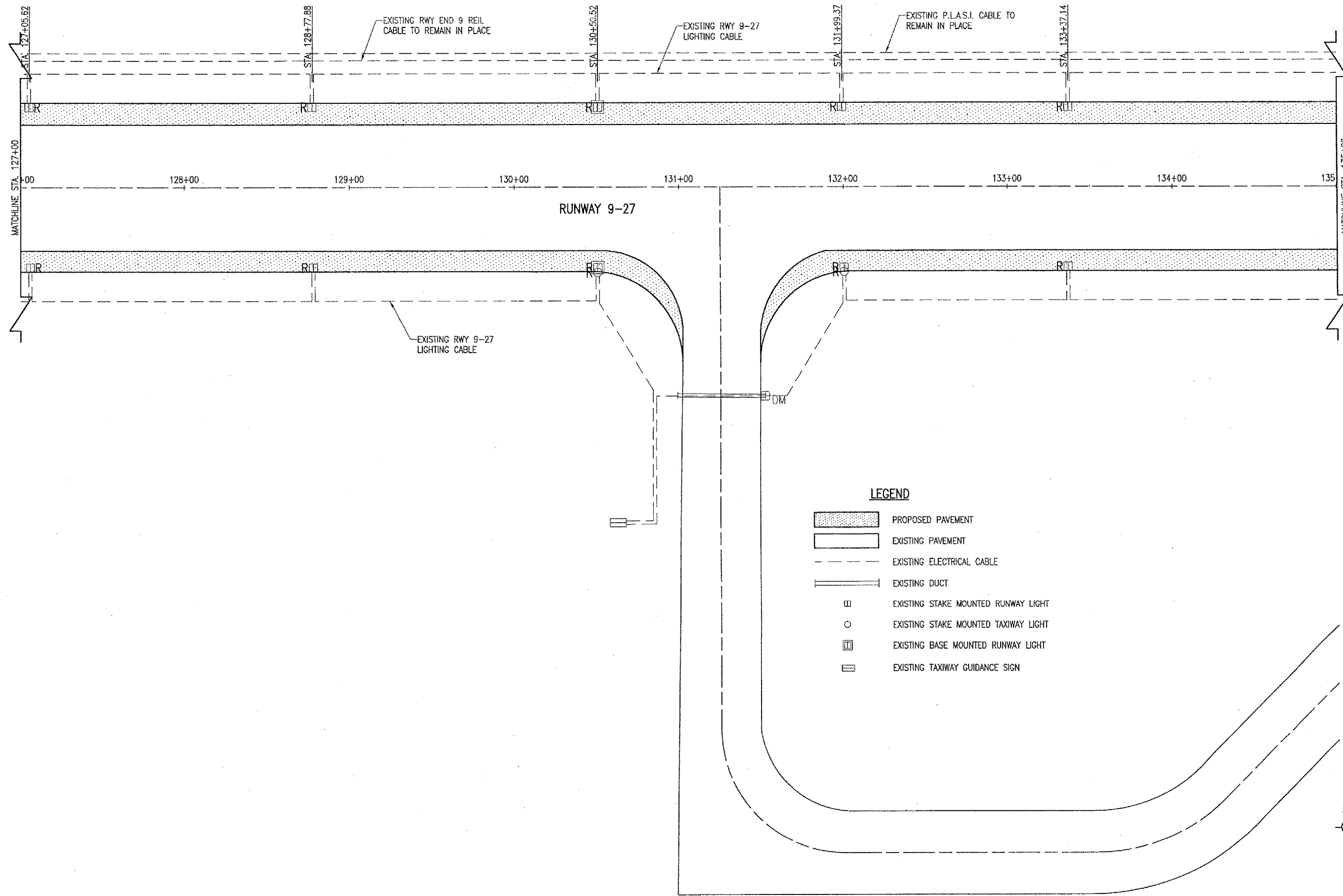
CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.





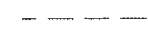
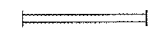




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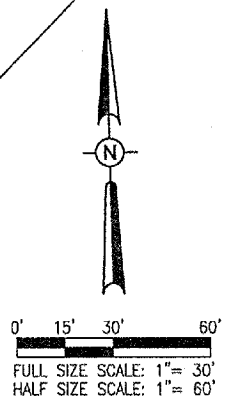


RB014



**LEGEND**

-  PROPOSED PAVEMENT
-  EXISTING PAVEMENT
-  EXISTING ELECTRICAL CABLE
-  EXISTING DUCT
-  EXISTING STAKE MOUNTED RUNWAY LIGHT
-  EXISTING STAKE MOUNTED TAXIWAY LIGHT
-  EXISTING BASE MOUNTED RUNWAY LIGHT
-  EXISTING TAXIWAY GUIDANCE SIGN



DATE	REVISION	BY

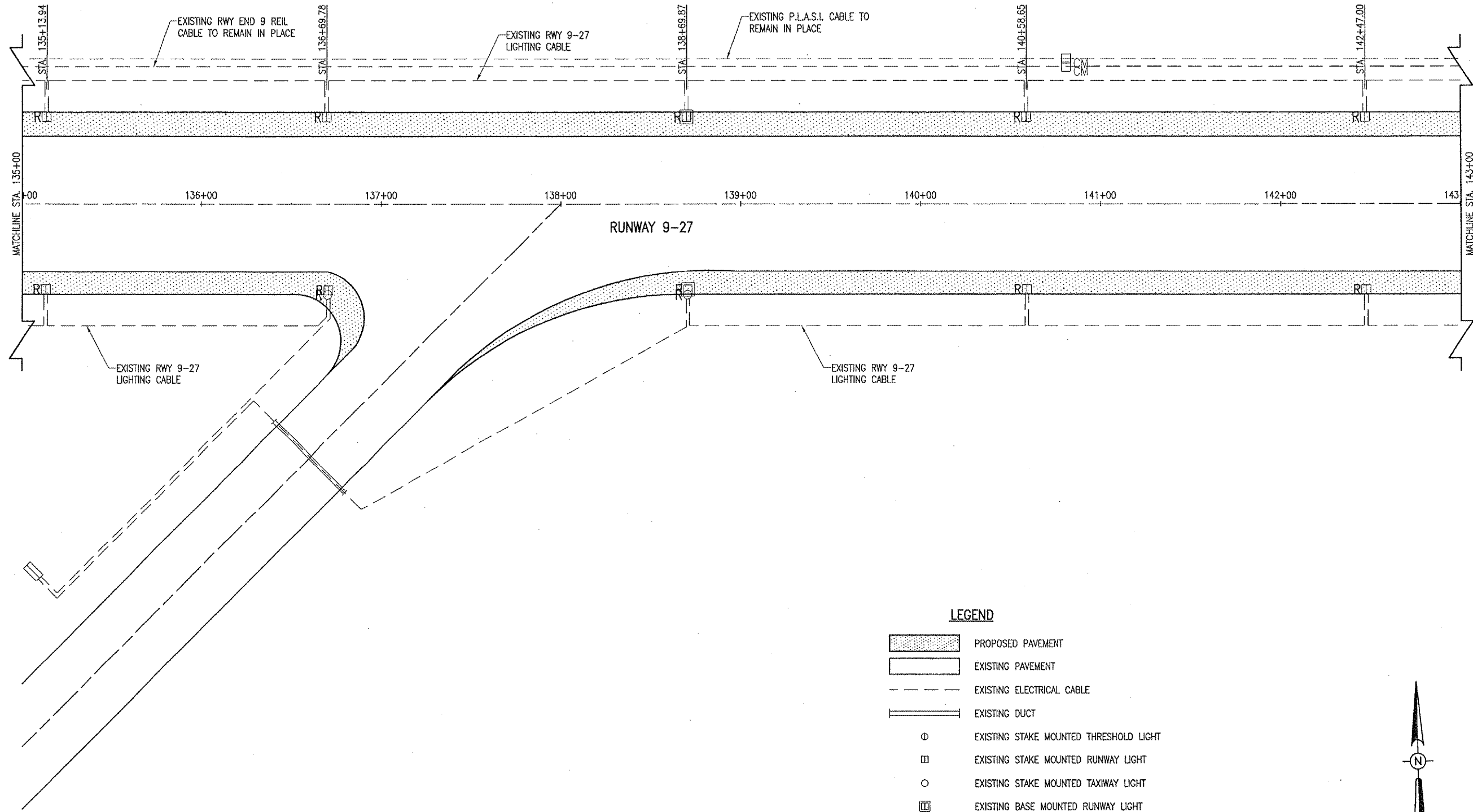
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS

IL PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

RB Project No. 838-04RWY Filename: R-14\ELE.DWG Scale: 1"=30' Date: 01/13/04	LAYOUT DRAWN REVIEWED	CCC CCC CAH	01/13/04 01/13/04 03/05/04
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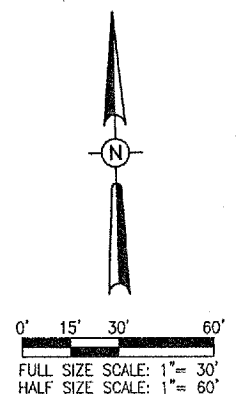
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 Springfield, Illinois 62703-2886  
 Offices Nationwide

**RUNWAY 9-27  
 WIDENING**  
 EXISTING  
 ELECTRICAL PLAN  
 STA. 127+00 TO STA. 135+00



LEGEND

- PROPOSED PAVEMENT
- EXISTING PAVEMENT
- EXISTING ELECTRICAL CABLE
- EXISTING DUCT
- EXISTING STAKE MOUNTED THRESHOLD LIGHT
- EXISTING STAKE MOUNTED RUNWAY LIGHT
- EXISTING STAKE MOUNTED TAXIWAY LIGHT
- EXISTING BASE MOUNTED RUNWAY LIGHT
- EXISTING TAXIWAY GUIDANCE SIGN
- EXISTING DUCT MARKER
- EXISTING CABLE MARKER



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REVISION	DATE	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

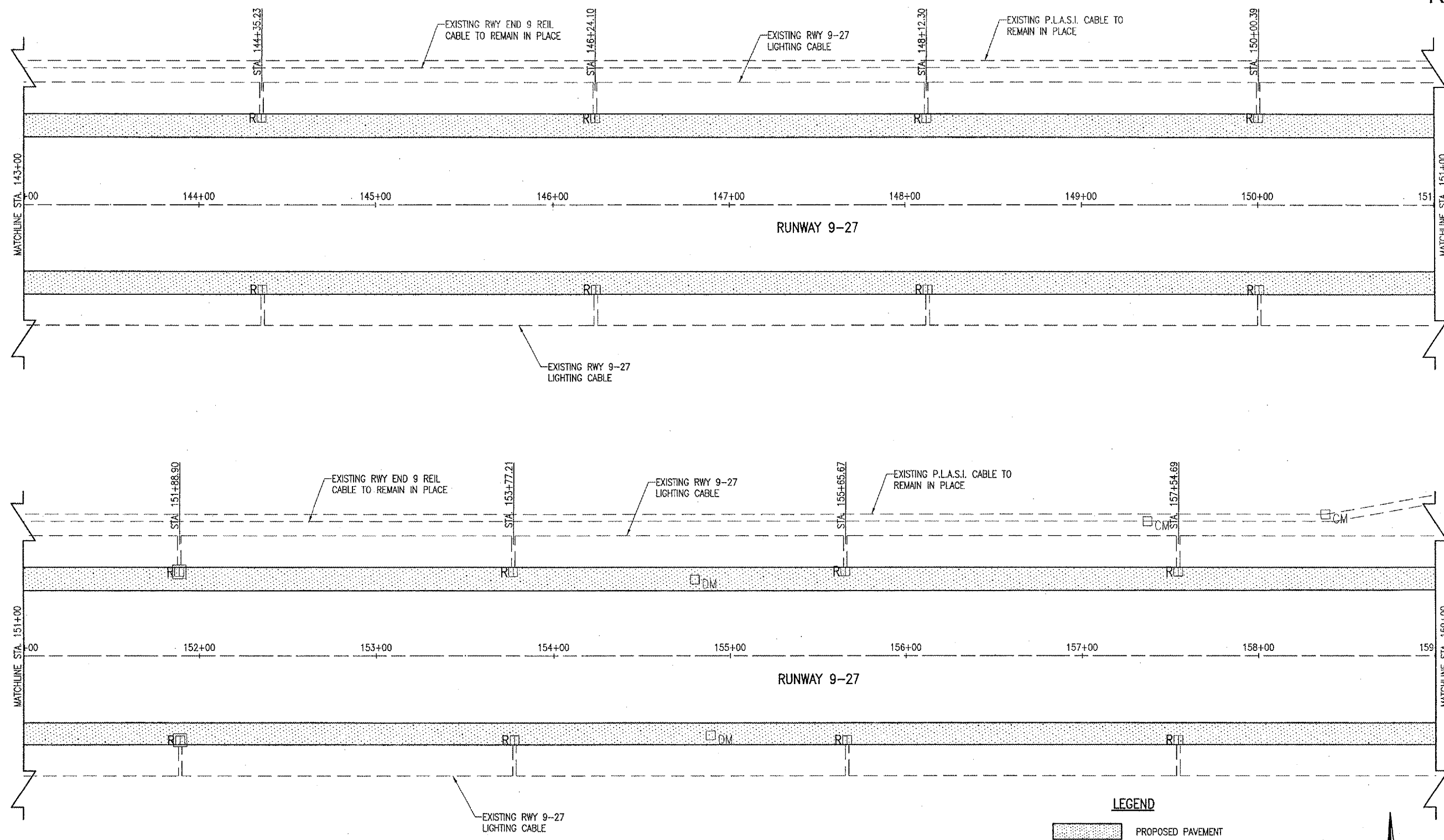
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Project No.	838-04RWY
Revision	R-141ELE.DWG
Scale	1" = 30'
Date	01/13/04
LAYOUT	CCC 01/13/04
DRAWN	CCC 01/13/04
REVIEWED	CAH 03/05/04

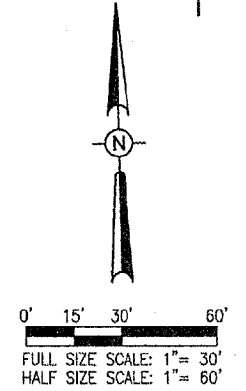
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Offices Nationwide

RUNWAY 9-27  
WIDENING

EXISTING  
ELECTRICAL PLAN  
STA. 135+00 TO STA. 143+00



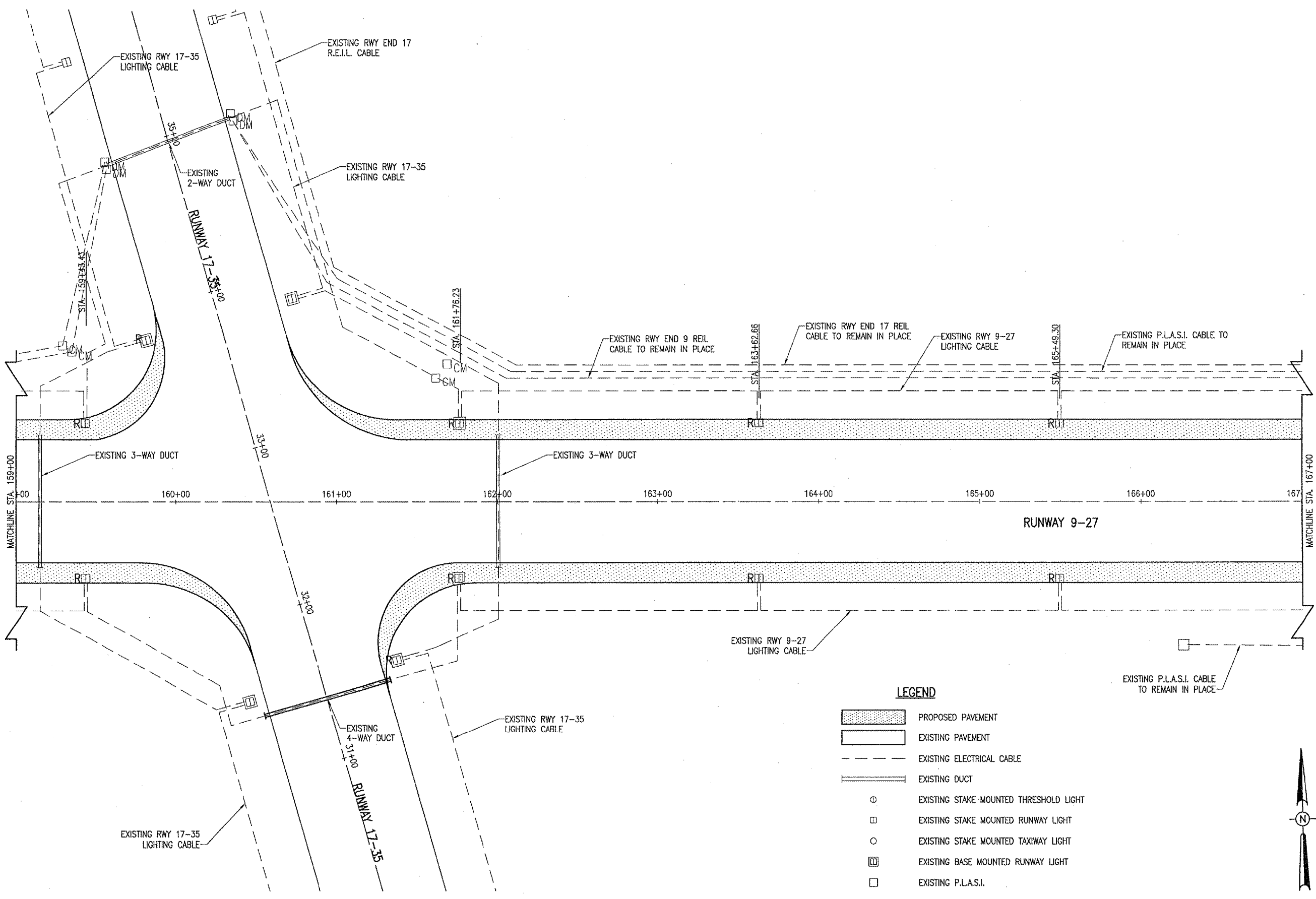
- LEGEND**
- PROPOSED PAVEMENT
  - EXISTING PAVEMENT
  - EXISTING ELECTRICAL CABLE
  - EXISTING DUCT
  - EXISTING STAKE MOUNTED THRESHOLD LIGHT
  - EXISTING STAKE MOUNTED RUNWAY LIGHT
  - EXISTING STAKE MOUNTED TAXIWAY LIGHT
  - EXISTING BASE MOUNTED RUNWAY LIGHT
  - EXISTING CABLE MARKER



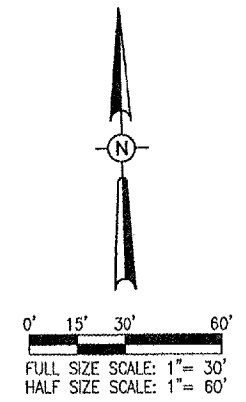
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	BY				
	REVISION				
	DATE				
ROBINSON MUNICIPAL AIRPORT ROBINSON CRAWFORD COUNTY, ILLINOIS ILL. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10					
I&L Project No. 838-04RWY File Name R-141ELE.DWG Scale 1"=30' Date 01/13/04	LAYOUT DRAWN REVIEWED	CCC CCC CAH	01/13/04 01/13/04 03/05/04		
Hanson Professional Services Inc. 1625 South Sixth Street Springfield, IL 62705-2886 Offices Nationwide					
RUNWAY 9-27 WIDENING		EXISTING ELECTRICAL PLAN STA. 143+00 TO STA. 159+00			
<span style="font-size: 2em; font-weight: bold;">19</span> 19 of 76 sheets					

JUN 29, 2006 9:18 AM CAH  
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- LEGEND**
- PROPOSED PAVEMENT
  - EXISTING PAVEMENT
  - EXISTING ELECTRICAL CABLE
  - EXISTING DUCT
  - EXISTING STAKE MOUNTED THRESHOLD LIGHT
  - EXISTING STAKE MOUNTED RUNWAY LIGHT
  - EXISTING STAKE MOUNTED TAXIWAY LIGHT
  - EXISTING BASE MOUNTED RUNWAY LIGHT
  - EXISTING P.L.A.S.I.
  - EXISTING DUCT MARKER
  - EXISTING CABLE MARKER



DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS

IL PROJ.: RSV-3480 A.I.P. PROJ.: 3-17-0086-810

ILE Project No. 838-04RWY Drawing R-141ELE.DWG Scale 1" = 30' Date 01/13/04	LAYOUT CCC 01/13/04 DRAWN CCC 01/13/04 REVIEWED CAH 03/05/04
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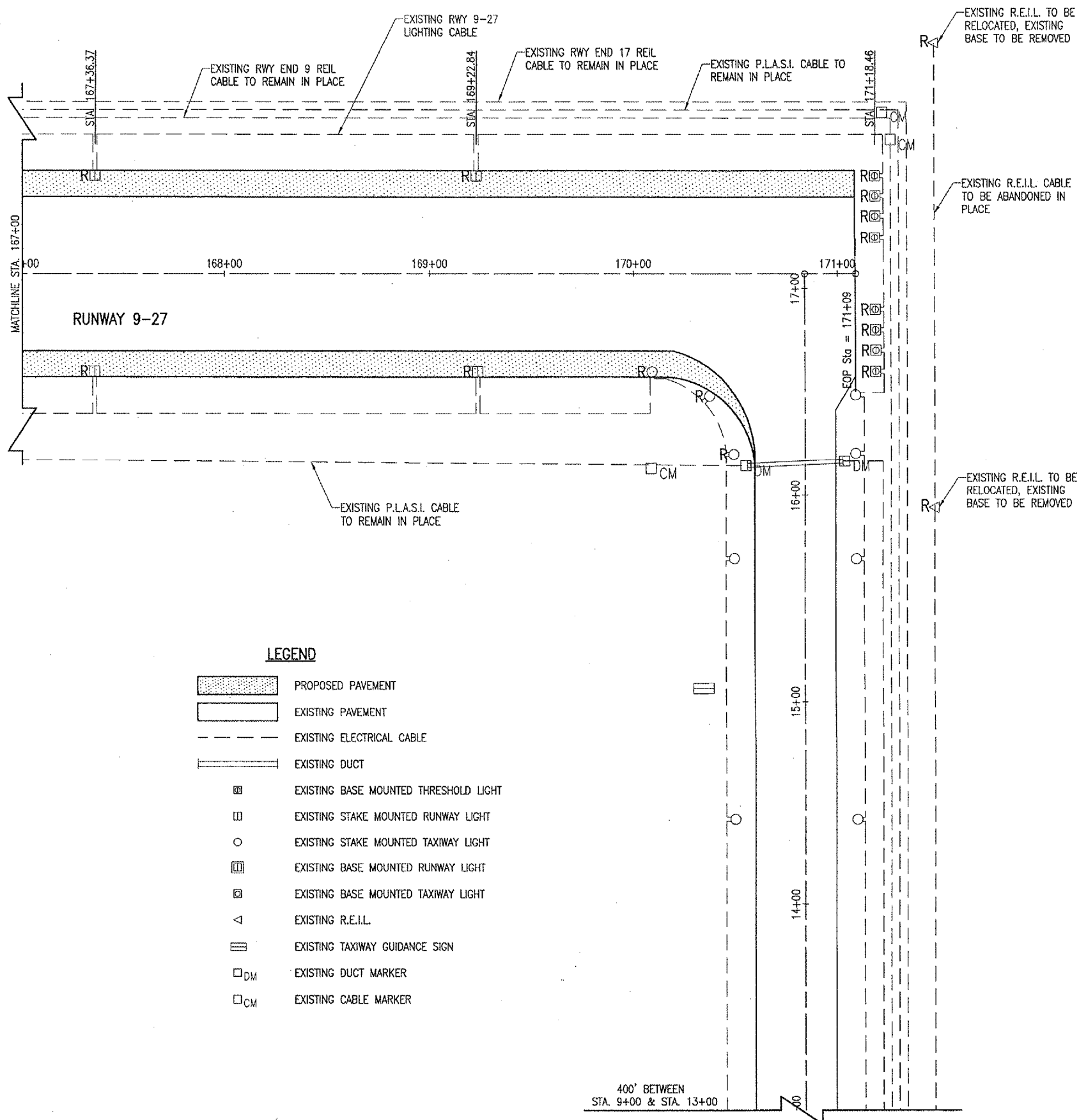
**HANSON**  
 Hanson Professional Services Inc.  
 1625 South Sixth Street  
 Springfield, Illinois 62703-2886  
 Chicago Nationwide

**RUNWAY 9-27  
 WIDENING**

EXISTING  
 ELECTRICAL PLAN  
 STA. 159+00 TO STA. 167+00

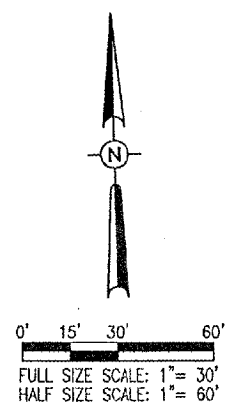
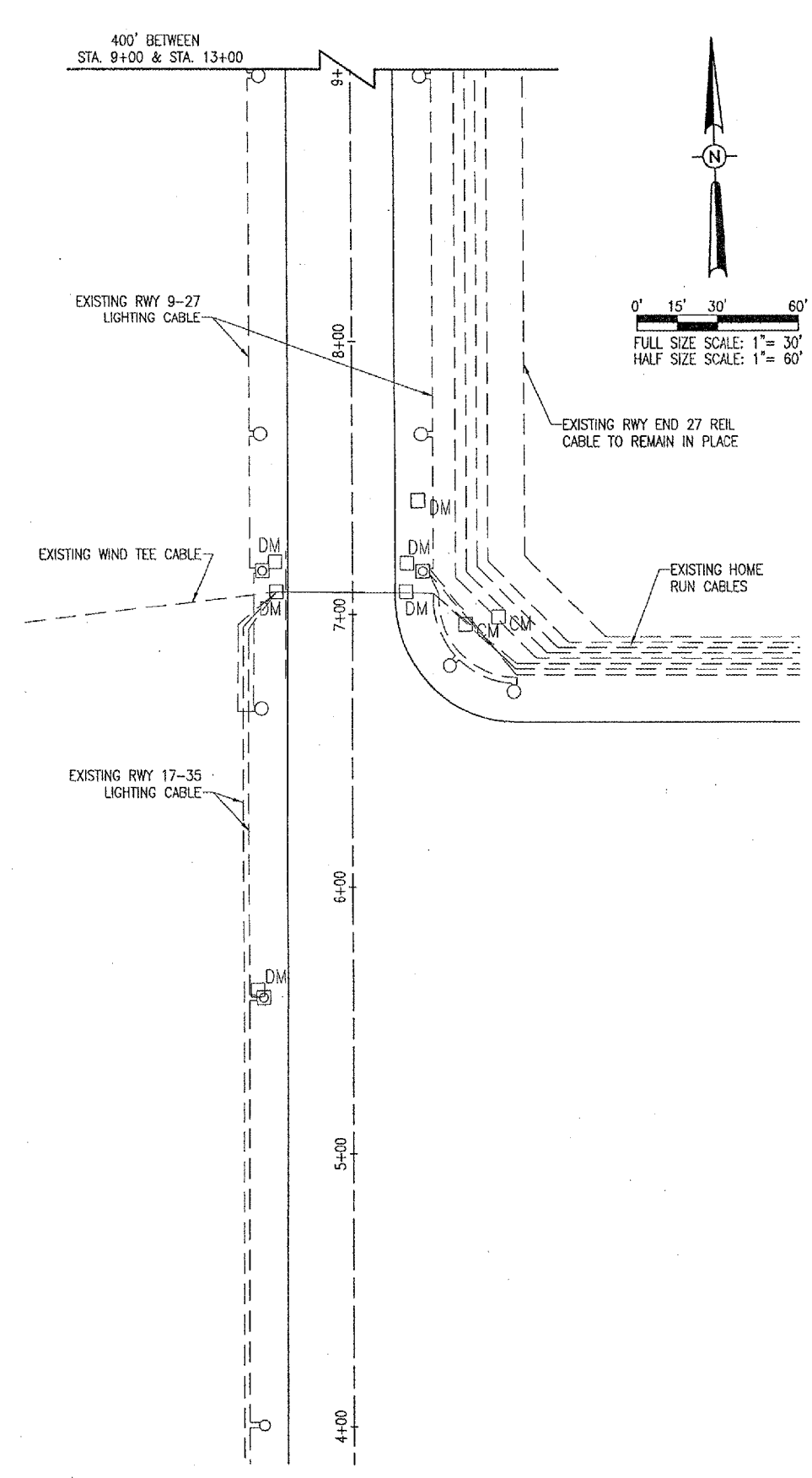
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RB014



**LEGEND**

- PROPOSED PAVEMENT
- EXISTING PAVEMENT
- EXISTING ELECTRICAL CABLE
- EXISTING DUCT
- EXISTING BASE MOUNTED THRESHOLD LIGHT
- EXISTING STAKE MOUNTED RUNWAY LIGHT
- EXISTING STAKE MOUNTED TAXIWAY LIGHT
- EXISTING BASE MOUNTED RUNWAY LIGHT
- EXISTING BASE MOUNTED TAXIWAY LIGHT
- EXISTING R.E.I.L.
- EXISTING TAXIWAY GUIDANCE SIGN
- EXISTING DUCT MARKER
- EXISTING CABLE MARKER



DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS

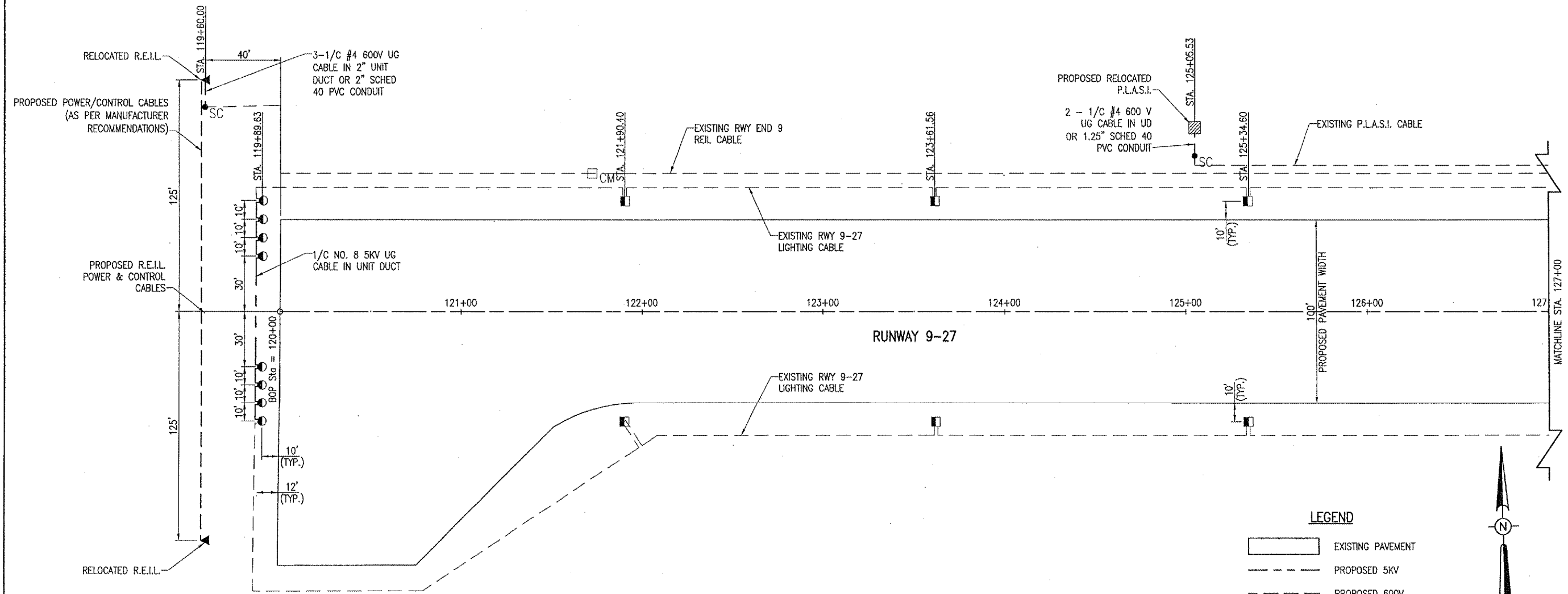
IL PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

HEB Project No. B38-04RWY	01/13/04
Electric R-14ELE.DWG	CCC
Scale 1" = 30'	01/13/04
Date 01/13/04	CAH
LAYOUT	03/05/04
DRAWN	
REVIEWED	



**RUNWAY 9-27  
 WIDENING**

EXISTING  
 ELECTRICAL PLAN  
 STA. 167+00 TO STA. 171+09



**LIGHTING NOTES**

THE CONTRACTOR IS REQUIRED TO RELOCATE THE EXISTING MEDIUM INTENSITY THRESHOLD LIGHTS, RUNWAY LIGHTS, TAXIWAY LIGHTS AND THEIR ISOLATION TRANSFORMERS TO THE LOCATIONS SHOWN ON THESE DRAWINGS.

THE REMOVAL OF THE LIGHTS TO BE RELOCATED WILL BE INCIDENTAL TO ITEMS AR125961 AND AR125962, RESPECTIVELY.

AT THE TIME THE RUNWAY LIGHTING SYSTEM WAS INSTALLED THE 1/C NO. 8 5KV UG CABLE IN UNIT DUCT WAS PLACED AT AN OFFSET OF 30 FT OFF OF THE EDGE OF PAVEMENT TO FACILITATE A MORE EFFICIENT RELOCATION OF THE LIGHTING DURING THIS PROJECT.

THEREFORE, THE 1/C NO. 8 5KV UG CABLE IN UNIT DUCT SHOULD BE MINIMAL AND ALL QUANTITIES NECESSARY TO COMPLETE THE TASK OF RELOCATING THE REQUIRED LIGHTS AND SIGNS WILL BE CONSIDERED INCIDENTAL TO ITS RESPECTIVE RELOCATION PAY ITEM, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

EXISTING CABLE IS TO BE ABANDONED IN PLACE UNLESS IT CONFLICTS WITH THE INSTALLATION OF A PROPOSED LIGHT OR CABLE, THEN IT WILL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

ALL HOLES WILL BE FILLED IN BY THE CONTRACTOR WITH EARTH AND COMPACTED TO PREVENT FUTURE SETTLEMENT.

ANY LIGHTS OR SIGNS DAMAGED BY THE CONTRACTOR WILL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

**PLASI RELOCATION NOTES**

THE EXISTING PLASI AND ADAPTOR UNITS ARE TO BE UNBOLTED, REMOVED AND RELOCATED TO THE PROPOSED LOCATION SHOWN ON THIS SHEET & SHEET NO. 26.

THE CONTRACTOR WILL CONSTRUCT A NEW PLASI CONCRETE BASE AS DETAILED ON SHEET NO. 32.

THE EXISTING PLASI CONCRETE BASES ARE TO BE REMOVED TO THEIR FULL DEPTH AND DISPOSED OF OFF THE AIRPORT SITE. FOR DIMENSIONS OF THE RELOCATED PLASI BASES, SEE THE DETAILS ON SHEET 32.

THE HOLES LEFT FROM THE PLASI BASES AND ADAPTOR UNITS WILL BE FILLED IN WITH EARTH AND COMPACTED TO PREVENT FUTURE SETTLEMENT. THE DISTURBED AREAS WILL BE FERTILIZED AND SEEDED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

THE PROPOSED PLASI CABLE WILL BE CONNECTED TO THE EXISTING PLASI CABLE USING THE PROPER CONNECTING KITS. THAT CONNECTION WILL BE DONE IN THE SPLICE CAN.

THE PROPOSED 120V. POWER CABLES FOR THE PLASI UNITS SHALL BE 2-1/C #4 600V UG CABLE IN UD OR 1.25\" SCHED 40 PVC CONDUIT & SHALL BE INCIDENTAL TO ITEM AR125970 RELOCATED PLASI.

THE RELOCATION OF THE EXISTING PLASI UNITS AND ADAPTOR UNITS WILL BE PAID FOR UNDER ITEM: AR125970 "RELOCATE PLASI" 2 EACH.

**REIL RELOCATION NOTES**

THE CONTRACTOR SHALL FURNISH AND INSTALL THE PROPOSED POWER CABLE FOR THE RELOCATED REIL'S AS SHOWN ON THIS SHEET. THE CABLE WILL BE TRENCHED AT A MINIMUM DEPTH OF 18\".

THE PROPOSED 240V POWER CABLES FOR THE REILS SHALL BE 3-1/C #4 600V UG CABLE IN 2\" UNIT DUCT, OR 2\" SCHED 40 PVC CONDUIT & SHALL BE INCIDENTAL TO ITEM AR125967, RELOCATED REILS.

THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL THE POWER AND CONTROL CABLES BETWEEN THE MASTER AND SLAVE REIL UNITS. THE SIZE, TYPE AND NUMBER OF CABLES TO BE INSTALLED BETWEEN THE REIL UNITS WILL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS.

THE CABLE TRENCH SHALL BE BACKFILLED, COMPACTED TO PREVENT FUTURE SETTLEMENT AND LIMED, FERTILIZED AND SEEDED IN ACCORDANCE WITH ITEM 901 "SEEDING".

THE RELOCATION OF THE EXISTING REIL UNITS WILL BE PAID FOR UNDER ITEM AR125967 "RELOCATE REILS" 2 PAIR.

**125-SPLICE CAN NOTES:**

THE PROPOSED ELECTRICAL SPLICE CANS WILL BE CONSTRUCTED IN ACCORDANCE WITH ITEM 125 "INSTALLATION OF AIRPORT LIGHTING SYSTEMS" AS STATED ON PAGE 150 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THE ELECTRICAL SPLICE CANS SHALL BE FURNISHED & INSTALLED AT THE LOCATIONS SHOWN ON SHEETS 22, 26, AND 27, & SHALL BE INCIDENTAL TO THE RESPECTIVE ITEM OF WORK (AR125967 OR AR125970).

THE PROPOSED ELECTRICAL SPLICE CANS WILL BE AS DETAILED ON SHEET NO. 28.

**LEGEND**

- EXISTING PAVEMENT
- PROPOSED 5KV
- PROPOSED 600V
- EXISTING 600V
- EXISTING DUCT
- CM EXISTING CABLE MARKER
- RELOCATED STAKE MOUNTED THRESHOLD LIGHT
- RELOCATED STAKE MOUNTED RUNWAY LIGHT
- RELOCATED STAKE MOUNTED TAXIWAY LIGHT
- RELOCATED BASE MOUNTED RUNWAY LIGHT
- RELOCATED BASE MOUNTED TAXIWAY LIGHT
- RELOCATED R.E.I.L.
- RELOCATED P.L.A.S.I.
- SC PROPOSED SPLICE CAN

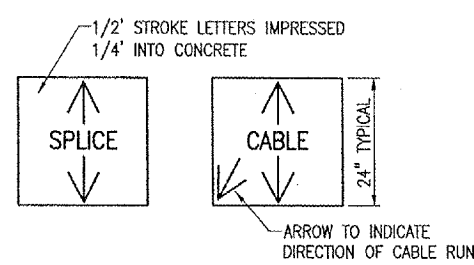
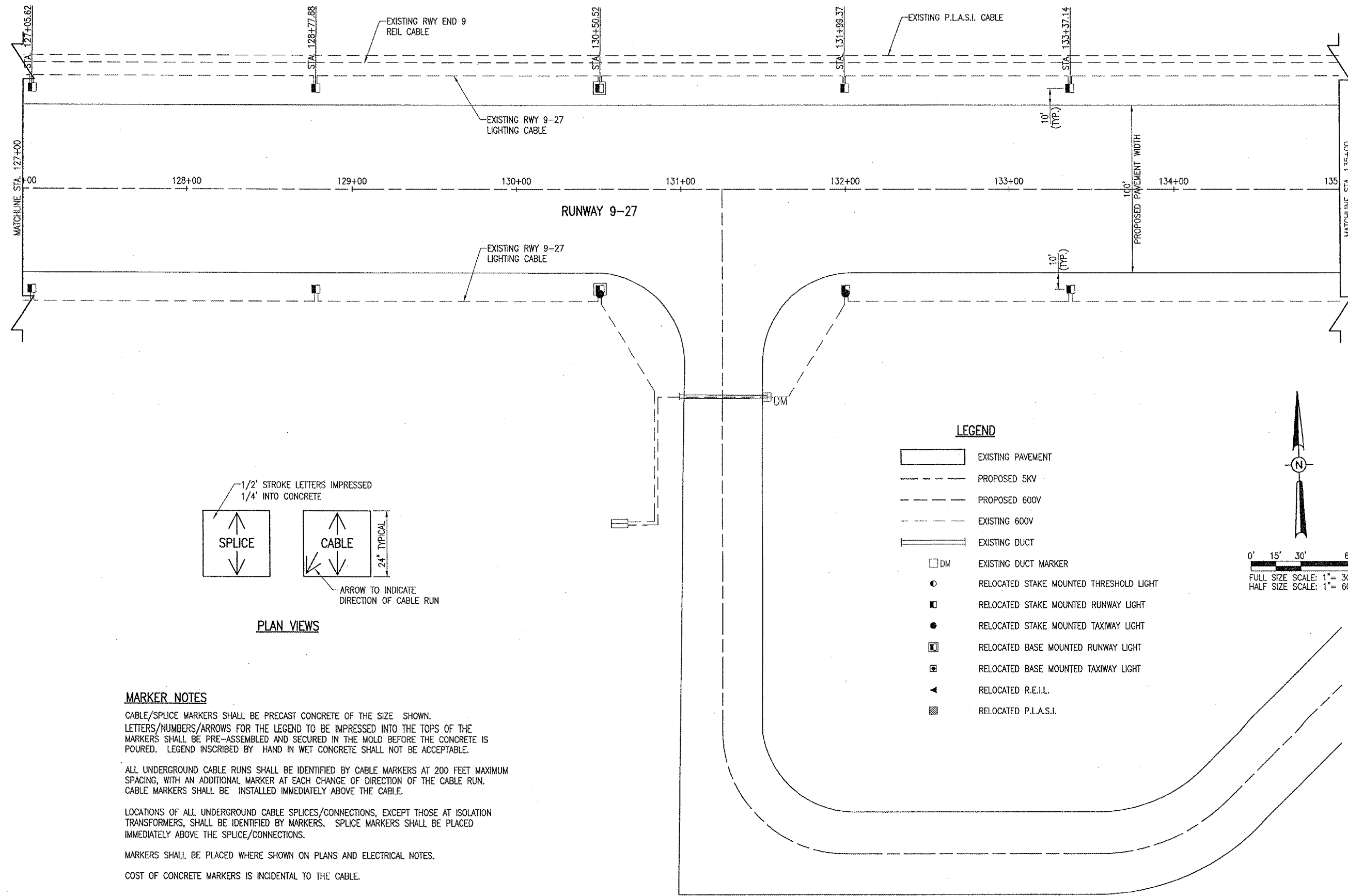
Scale: 1" = 30'  
FULL SIZE SCALE: 1" = 30'  
HALF SIZE SCALE: 1" = 60'

**SUMMARY OF PROPOSED ELECTRICAL QUANTITIES**

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
AR108158	1/C #8 5 KV UG CABLE IN UD	L.F.	288
AR109210	VAULT MODIFICATIONS	L.S.	1
AR110553	EXTEND 3-WAY DUCT	L.F.	50
AR125961	RELOCATE STAKE MOUNTED LIGHT	EA.	61
AR125962	RELOCATE BASE MOUNTED LIGHT	EA.	18
AR125967	RELOCATE REILS	PAIR	2
AR125970	RELOCATE PLASI	EA.	2

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REVISION		DATE			
<p><b>ROBINSON MUNICIPAL AIRPORT</b> <b>ROBINSON</b> <b>CRAWFORD COUNTY, ILLINOIS</b></p> <p>ILL. PROJ.: RSY-3490 A.I.P. PROJ.: 3-17-0086-B10</p>					
<p>FILE: 838-04RWY PLAN: R-142ELE.DWG SCALE: 1"=30' DATE: 01/13/04</p>	<p>LAYOUT: CCC 01/13/04 DRAWN: CCC 01/13/04 REVIEWED: CAH 03/05/04</p>	<p>Hanson Professional Services Inc. 1025 South Sixth Street Springfield, Illinois 62703-2886 Chicago Nationwide</p>			
<p><b>RUNWAY 9-27 WIDENING</b></p> <p>PROPOSED ELECTRICAL PLAN STA. 120+00 TO STA. 127+00</p>					
<p><b>22</b></p> <p>22 of 75 sheets</p>					



PLAN VIEWS

**MARKER NOTES**

CABLE/SPLICE MARKERS SHALL BE PRECAST CONCRETE OF THE SIZE SHOWN. LETTERS/NUMBERS/ARROWS FOR THE LEGEND TO BE IMPRESSED INTO THE TOPS OF THE MARKERS SHALL BE PRE-ASSEMBLED AND SECURED IN THE MOLD BEFORE THE CONCRETE IS POURED. LEGEND INSCRIBED BY HAND IN WET CONCRETE SHALL NOT BE ACCEPTABLE.

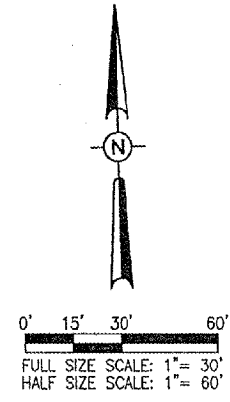
ALL UNDERGROUND CABLE RUNS SHALL BE IDENTIFIED BY CABLE MARKERS AT 200 FEET MAXIMUM SPACING, WITH AN ADDITIONAL MARKER AT EACH CHANGE OF DIRECTION OF THE CABLE RUN. CABLE MARKERS SHALL BE INSTALLED IMMEDIATELY ABOVE THE CABLE.

LOCATIONS OF ALL UNDERGROUND CABLE SPLICES/CONNECTIONS, EXCEPT THOSE AT ISOLATION TRANSFORMERS, SHALL BE IDENTIFIED BY MARKERS. SPLICE MARKERS SHALL BE PLACED IMMEDIATELY ABOVE THE SPLICE/CONNECTIONS.

MARKERS SHALL BE PLACED WHERE SHOWN ON PLANS AND ELECTRICAL NOTES.

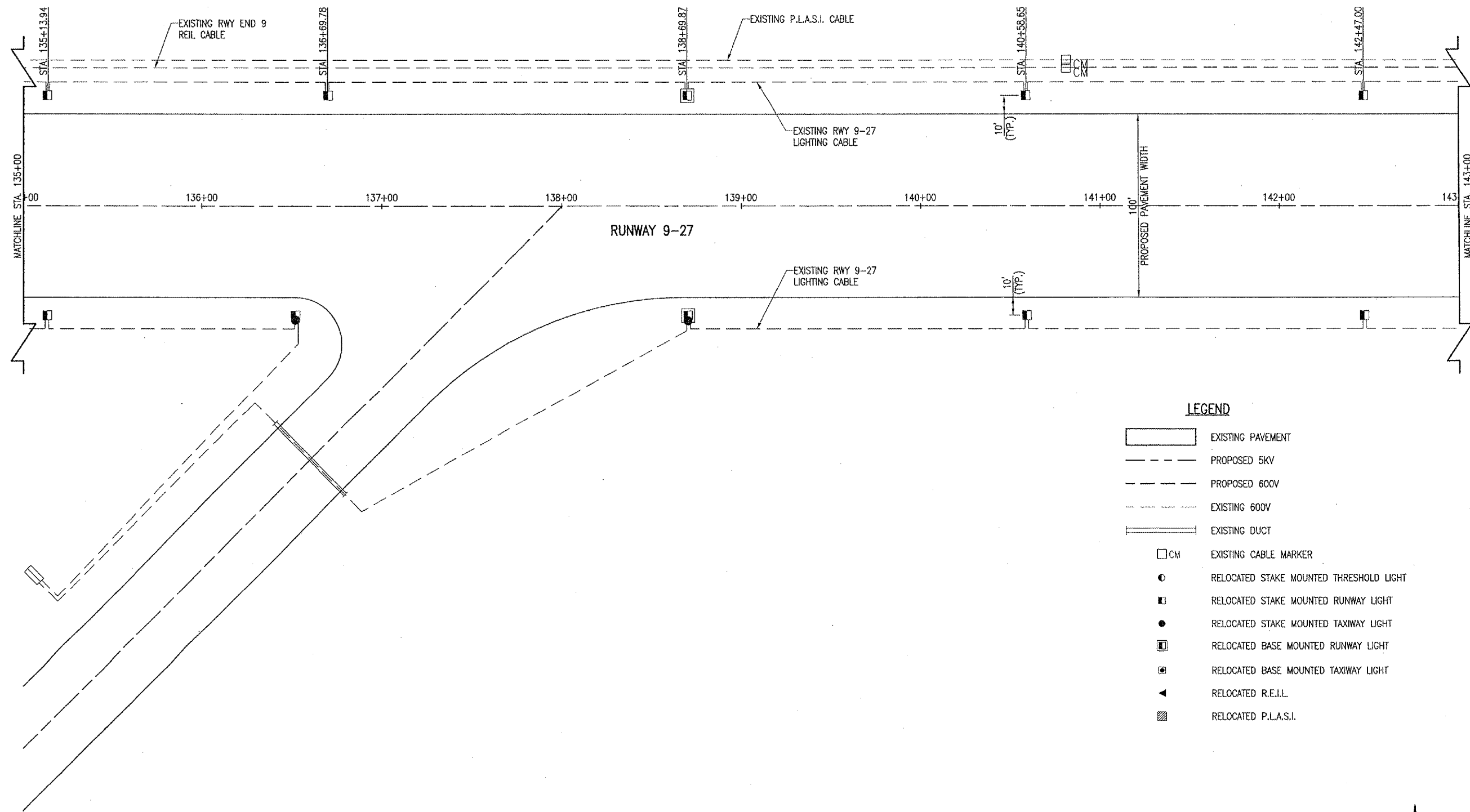
COST OF CONCRETE MARKERS IS INCIDENTAL TO THE CABLE.

- LEGEND**
- EXISTING PAVEMENT
  - PROPOSED 5KV
  - PROPOSED 600V
  - EXISTING 600V
  - EXISTING DUCT
  - EXISTING DUCT MARKER
  - RELOCATED STAKE MOUNTED THRESHOLD LIGHT
  - RELOCATED STAKE MOUNTED RUNWAY LIGHT
  - RELOCATED STAKE MOUNTED TAXIWAY LIGHT
  - RELOCATED BASE MOUNTED RUNWAY LIGHT
  - RELOCATED BASE MOUNTED TAXIWAY LIGHT
  - RELOCATED R.E.I.L.
  - RELOCATED P.L.A.S.I.

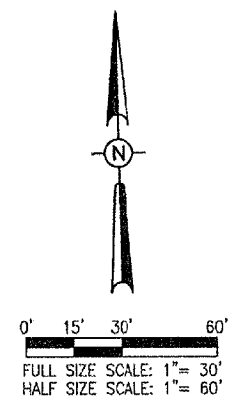


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ROBINSON MUNICIPAL AIRPORT ROBINSON CRAWFORD COUNTY, ILLINOIS		A.I.P. PROJ.: 3-17-0086-B10 IL. PROJ.: RSV-3490
IEL Project No. 838-04RWY Filename R-142ELE.DWG Scale 1"=30' Date 01/13/04	LAYOUT CCC 01/13/04 DRAWN CCC 01/13/04 REVIEWED CAH 03/05/04	<p>Hanson Professional Services Inc. 1526 South Sixth Street Springfield, Illinois 62793-2886 Offices Nationwide</p>
RUNWAY 9-27 WIDENING	PROPOSED ELECTRICAL PLAN STA. 127+00 TO STA. 135+00	
23		23 of 75 sheets



- LEGEND**
- EXISTING PAVEMENT
  - PROPOSED 5KV
  - PROPOSED 600V
  - EXISTING 600V
  - EXISTING DUCT
  - EXISTING CABLE MARKER
  - RELOCATED STAKE MOUNTED THRESHOLD LIGHT
  - RELOCATED STAKE MOUNTED RUNWAY LIGHT
  - RELOCATED STAKE MOUNTED TAXIWAY LIGHT
  - RELOCATED BASE MOUNTED RUNWAY LIGHT
  - RELOCATED BASE MOUNTED TAXIWAY LIGHT
  - RELOCATED R.E.I.L.
  - RELOCATED P.L.A.S.I.



DATE	REVISION	BY

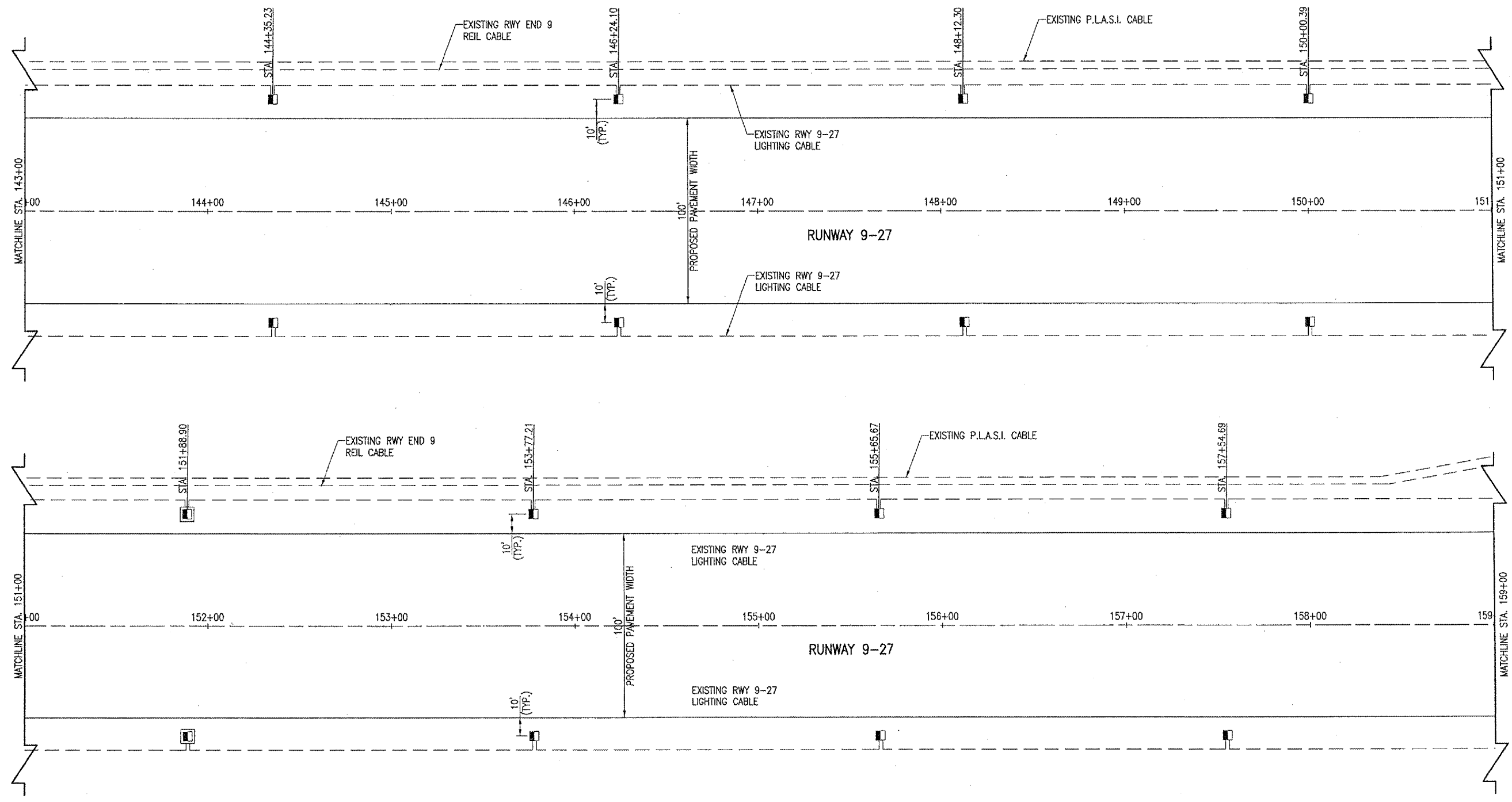
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 ILL. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

RE Project No. 838-04RWY	CCC	01/13/04
File Name: R-142ELE.DWG	CCC	01/13/04
Scale: 1"=30'	CAH	03/05/04
Date: 01/13/04		
LAYOUT		
DRAWN		
REVIEWED		

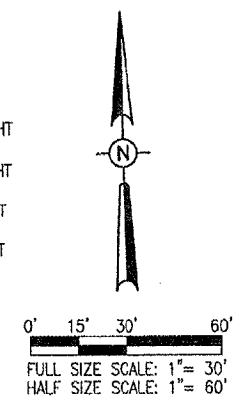
**HANSON**  
 Hanson Professional Services Inc.  
 1525 South Sixth Street  
 Springfield, IL 62768-2866  
 Chicago Nationwide

**RUNWAY 9-27  
 WIDENING**  
 PROPOSED  
 ELECTRICAL PLAN  
 STA. 135+00 TO STA. 143+00





- LEGEND**
- EXISTING PAVEMENT
  - PROPOSED 5KV
  - PROPOSED 600V
  - EXISTING 600V
  - EXISTING DUCT
  - RELOCATED STAKE MOUNTED THRESHOLD LIGHT
  - RELOCATED STAKE MOUNTED RUNWAY LIGHT
  - RELOCATED STAKE MOUNTED TAXIWAY LIGHT
  - RELOCATED BASE MOUNTED RUNWAY LIGHT
  - RELOCATED BASE MOUNTED TAXIWAY LIGHT
  - RELOCATED R.E.I.L.
  - RELOCATED P.L.A.S.I.



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DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 ILL. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-810

IRI Project No.: 838-04RWY Filename: R-142ELE.DWG Scale: 1" = 30' Date: 01/13/04	LAYOUT CCC 01/13/04
DRAWN CCC 01/13/04	REVIEWED CAH 03/05/04

Hanson Professional Services Inc.  
 1826 South Sixth Street  
 Springfield, Illinois 62703-2886  
 Offices Nationwide

**RUNWAY 9-27  
 WIDENING**  
 PROPOSED  
 ELECTRICAL PLAN  
 STA. 143+00 TO STA. 159+00

**DUCT EXTENSION NOTES**

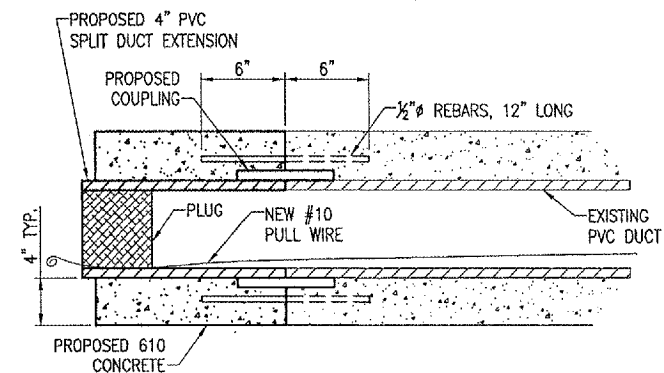
THE EXISTING 4" CONCRETE ENCASED DUCTS SHOWN IN THESE PLANS WILL BE EXTENDED TO A MINIMUM OF 3' FROM THE PROPOSED PAVEMENT EDGE.

THE EXISTING CABLE INSIDE THE DUCTS SHALL REMAIN IN PLACE DURING THE EXTENSION.

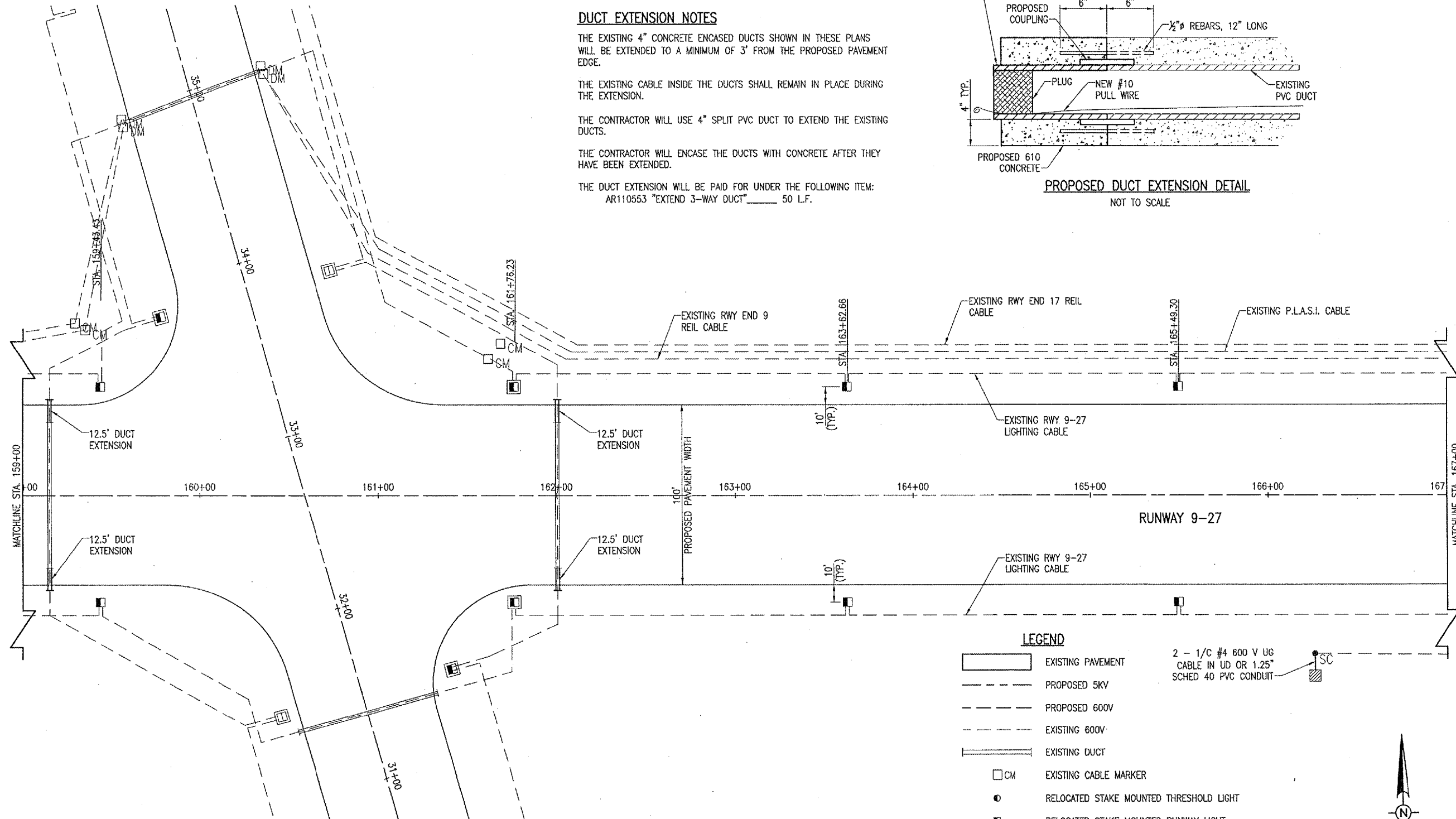
THE CONTRACTOR WILL USE 4" SPLIT PVC DUCT TO EXTEND THE EXISTING DUCTS.

THE CONTRACTOR WILL ENCASE THE DUCTS WITH CONCRETE AFTER THEY HAVE BEEN EXTENDED.

THE DUCT EXTENSION WILL BE PAID FOR UNDER THE FOLLOWING ITEM:  
AR110553 "EXTEND 3-WAY DUCT" 50 L.F.

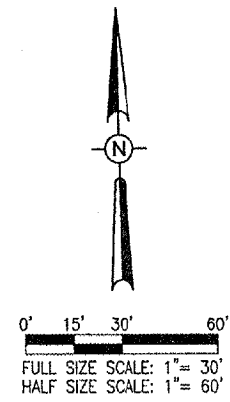


**PROPOSED DUCT EXTENSION DETAIL**  
NOT TO SCALE



**LEGEND**

- EXISTING PAVEMENT
  - PROPOSED 5KV
  - PROPOSED 600V
  - EXISTING 600V
  - EXISTING DUCT
  - EXISTING CABLE MARKER
  - RELOCATED STAKE MOUNTED THRESHOLD LIGHT
  - RELOCATED STAKE MOUNTED RUNWAY LIGHT
  - RELOCATED STAKE MOUNTED TAXIWAY LIGHT
  - RELOCATED BASE MOUNTED RUNWAY LIGHT
  - RELOCATED BASE MOUNTED TAXIWAY LIGHT
  - RELOCATED R.E.I.L.
  - RELOCATED P.L.A.S.I.
  - PROPOSED SPLICE CAN
- 2 - 1/C #4 600 V UG CABLE IN UD OR 1.25" SCHED 40 PVC CONDUIT



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DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS  
A.I.P. PROJ.: 3-17-0086-B10  
IL PROJ.: RSV-3480

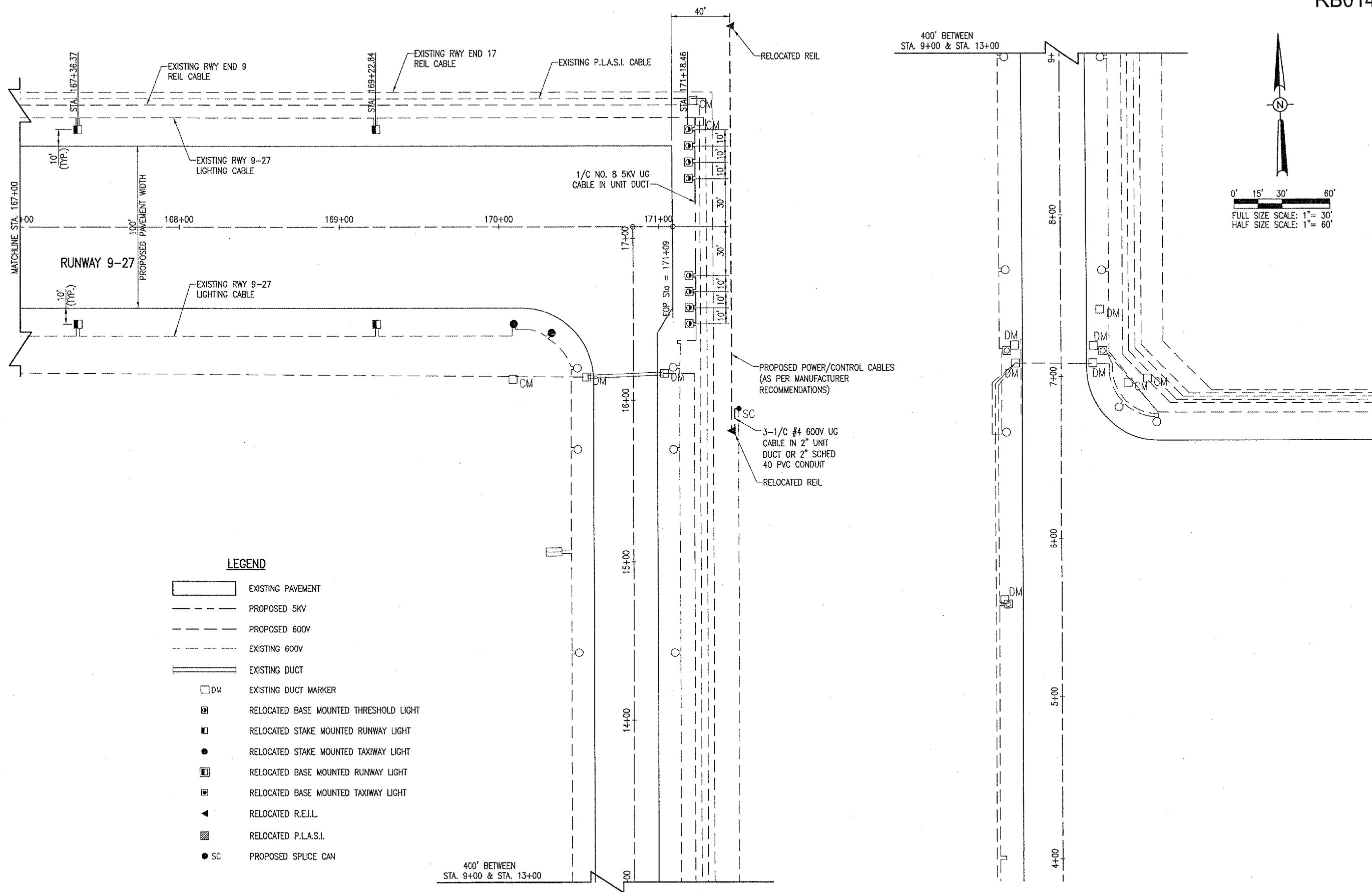
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Element R-142ELE.DWG	
Scale 1" = 30'	
Date 01/13/04	
LAYOUT	CCC 01/13/04
DRAWN	CCC 01/13/04
REVIEWED	CAH 03/05/04

**HANSON**  
Hanson Professional Services Inc.  
1626 South Sixth Street  
Springfield, Illinois 62703-2886  
Offices Nationwide

**RUNWAY 9-27  
WIDENING**  
PROPOSED  
ELECTRICAL PLAN  
STA. 159+00 TO STA. 167+00

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RB014



**LEGEND**

- EXISTING PAVEMENT
- PROPOSED 5KV
- PROPOSED 600V
- EXISTING 600V
- EXISTING DUCT
- DM EXISTING DUCT MARKER
- RELOCATED BASE MOUNTED THRESHOLD LIGHT
- RELOCATED STAKE MOUNTED RUNWAY LIGHT
- RELOCATED STAKE MOUNTED TAXIWAY LIGHT
- RELOCATED BASE MOUNTED RUNWAY LIGHT
- RELOCATED BASE MOUNTED TAXIWAY LIGHT
- RELOCATED R.E.I.L.
- RELOCATED P.L.A.S.I.
- SC PROPOSED SPLICE CAN

DATE	REVISION	BY

**ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS**

A.I.P. PROJ.: RSV-3490  
I.L. PROJ.: 3-17-0086-810

REV. PROJECT NO. 838-04RWY	
FILENAME R-142ELE.DWG	
SCALE 1"=30'	DATE 01/13/04
LAYOUT	CCC 01/13/04
DRAWN	CCC 01/13/04
REVIEWED	CAH 03/05/04



**RUNWAY 9-27  
WIDENING**

PROPOSED  
ELECTRICAL PLAN

STA. 167+00 TO STA. 171+09

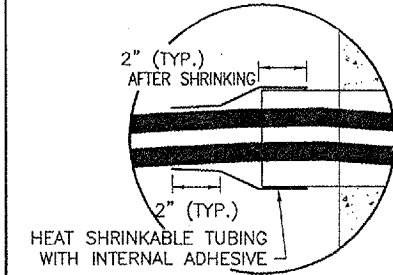
BY	
REVISION	
DATE	

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

FILE NO.	838-04RWY
PROJECT	R-541ELE.DWG
SCALE	NONE
DATE	01/13/04
LAYOUT	CCC 01/13/04
DRAWN	CCC 01/13/04
REVIEWED	CAH 03/05/04

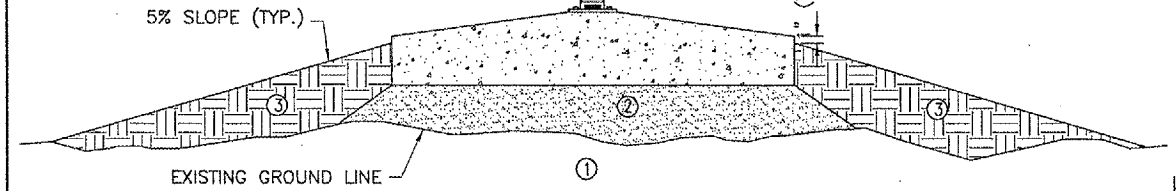
**HANSON**  
Hanson Professional Services Inc.  
1525 South Sixth Street  
Springfield, Illinois 62703-2686  
Offices Nationwide

RUNWAY 9-27  
WIDENING  
ELECTRICAL DETAILS

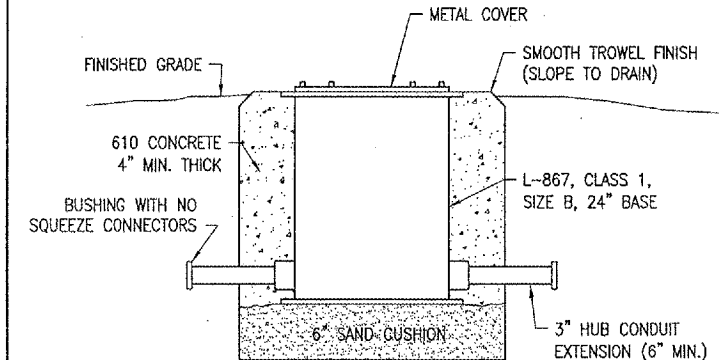


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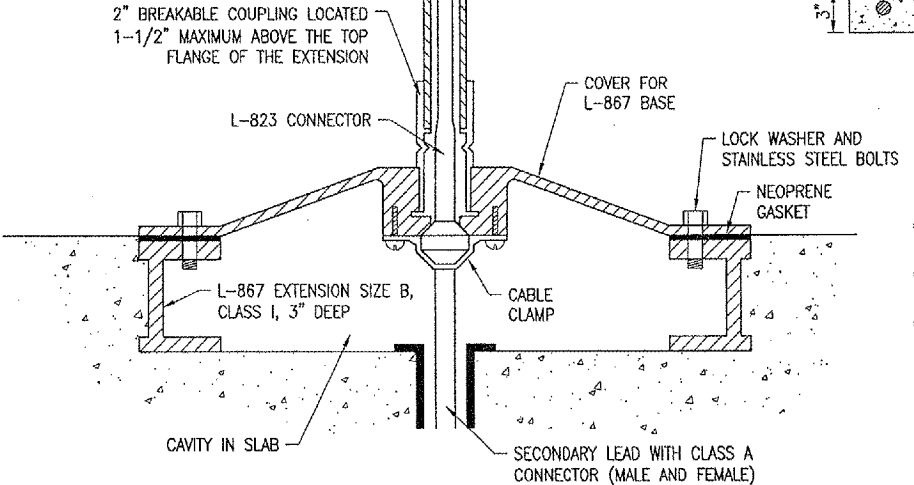
- ① EXISTING SOD TO BE STRIPPED AND REMOVED
- ② SAND BACKFILL, VARIABLE DEPTH
- ③ PROPOSED TOPSOIL BACKFILL MATERIAL



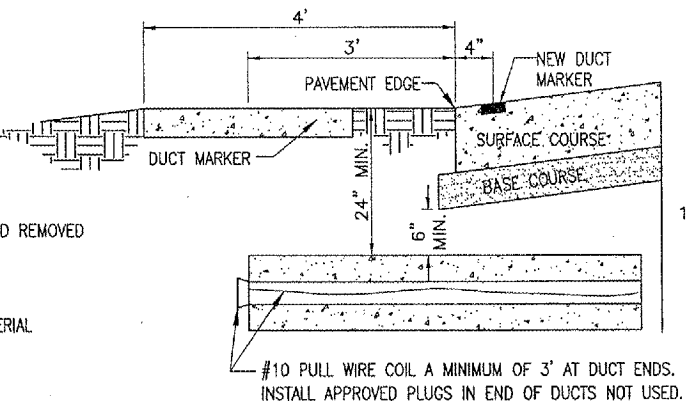
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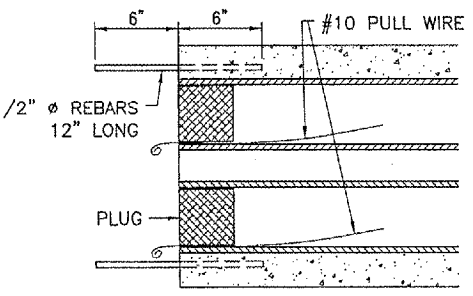
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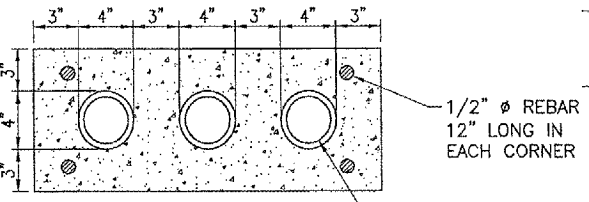
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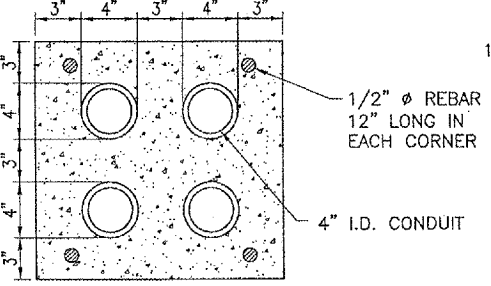
**UNDERGROUND ELECTRICAL DUCT**  
(NOT TO SCALE)



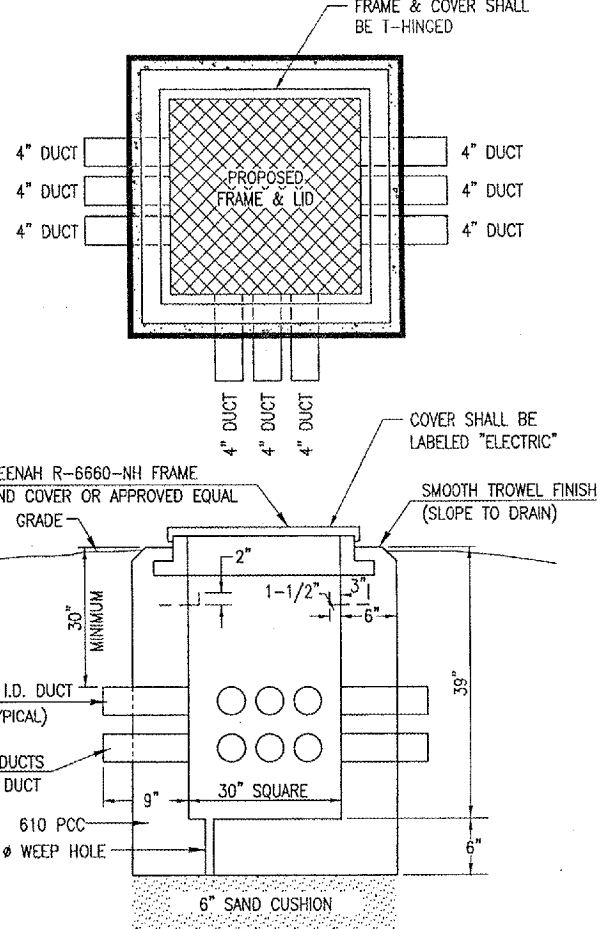
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(NOT TO SCALE)



**3-DUCT BANK**  
(NOT TO SCALE)

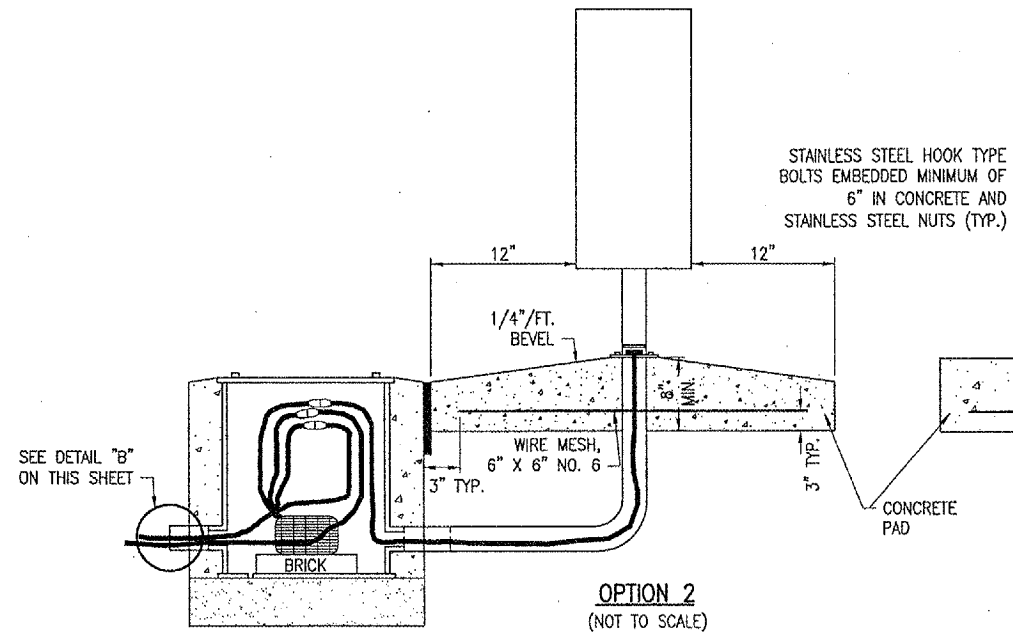


**4-DUCT BANK**  
(NOT TO SCALE)



**ELECTRICAL HANDHOLE**  
(NOT TO SCALE)

NOTE - ELECTRICAL DUCT FOR BACKFILL AREAS UNDER PROPOSED PAVEMENT, A GRANULAR AGGREGATE MATERIAL (CA-6) SHALL BE USED. THE CA-6 SHALL BE PLACED IN LIFTS NOT TO EXCEED 6 INCHES IN DEPTH. THE AGGREGATE MATERIAL WILL BE COMPACTED TO 90% OF MODIFIED PROCTOR DENSITY.



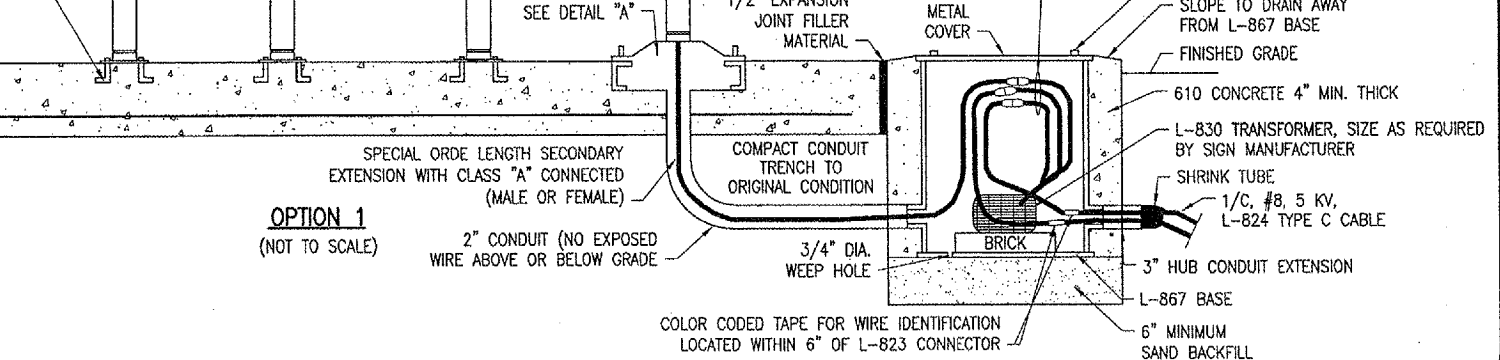
**OPTION 1**  
(NOT TO SCALE)

**OPTION 2**  
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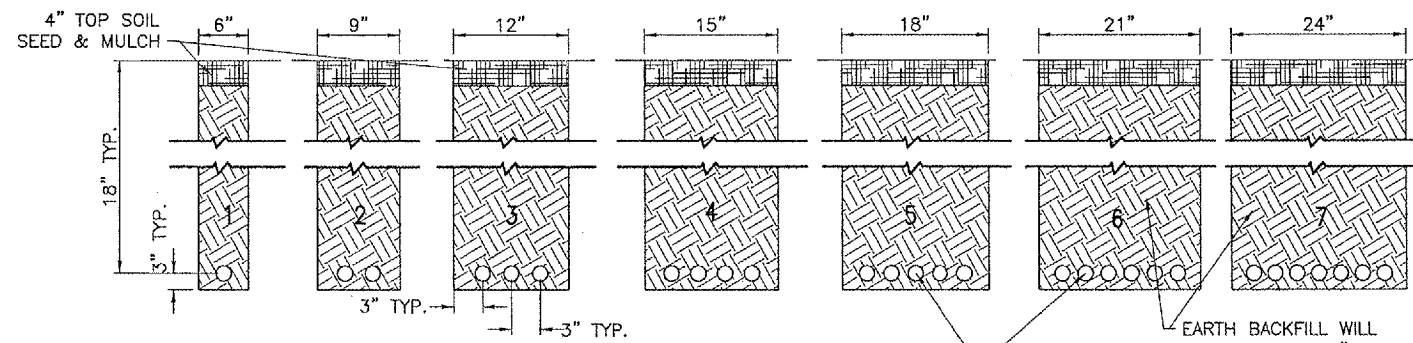
**L-858 SIGN**

NOTES:  
SEE LIGHTING LAYOUT SHEET(S) FOR SIGN LEGEND, LOCATION, TYPE, SIZE, STYLE, AND CLASS.  
NUMBER AND SPACING OF LEGS AS PER MANUFACTURER'S REQUIREMENTS.

THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER, IN RESPECT TO THE ACCURACY OR SUFFICIENCY OF THE INFORMATION AND THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE CONDITIONS ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION.



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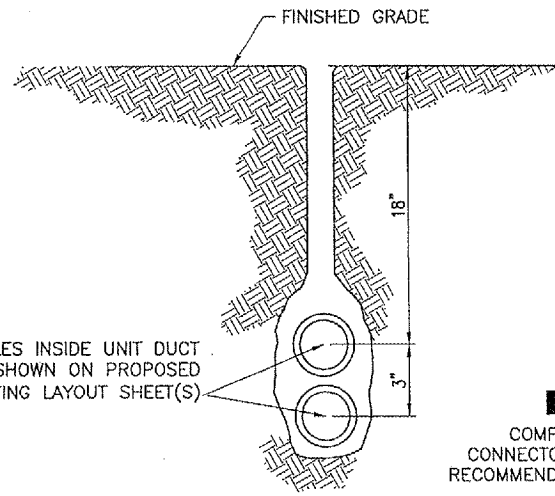


NOTES:  
DETAIL NUMBERS INDICATE NO. OF CABLES.

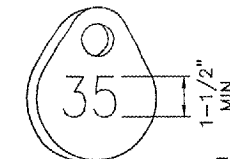
TRENCHES WITH MORE THAN SEVEN CABLES SHALL BE INCREASED 3" IN WIDTH FOR EACH ADDITIONAL CABLE; IF SPECIFIED ON PLANS TWO PARALLEL TRENCHES MAY BE CONSTRUCTED.

DEPTH OF TRENCHES SHALL BE AS SHOWN ABOVE UNLESS OTHERWISE SPECIFIED ON THE PLANS.

ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL TO TRENCH.

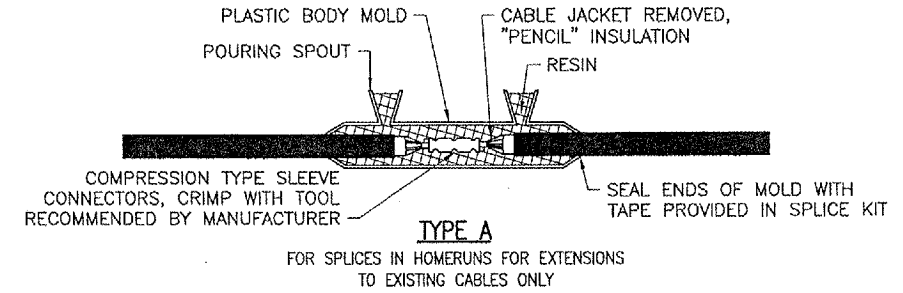


**PLOWED CABLE**  
(NOT TO SCALE)



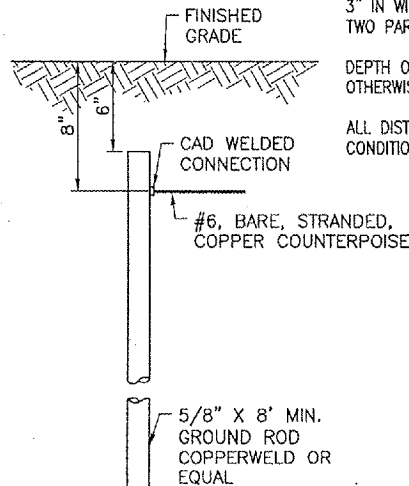
**TAG DETAIL**  
(NOT TO SCALE)

NOTE:  
AFFIX NON-CORROSIVE TAG TO FIXTURE FACING RUNWAY WITH SET SCREW, WIRE TIE, OR METAL BAND. NUMERALS SHALL BE ENGRAVED FOR PERMANENT READABILITY.



**TYPE A**

FOR SPLICES IN HOMERUNS FOR EXTENSIONS TO EXISTING CABLES ONLY

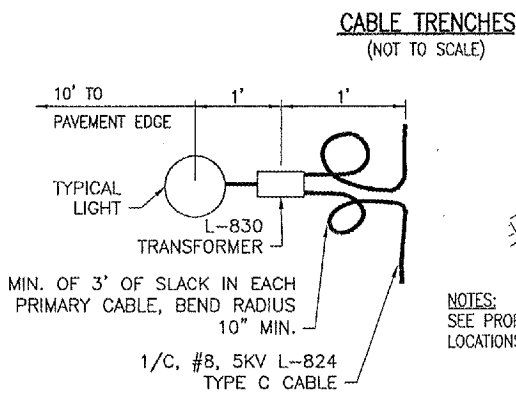


NOTES:  
TYPE AND MINIMUM NUMBER OF GROUND RODS SHALL BE AS SPECIFIED ON THE PLAN.

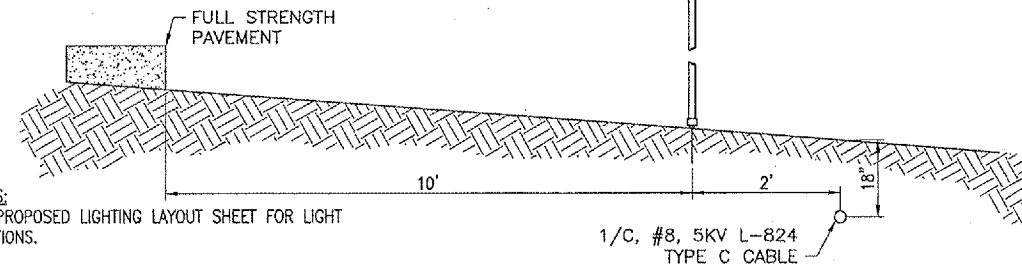
THE RESISTANCE TO GROUND OF THE COUNTERPOISE GROUNDING SYSTEM SHALL NOT EXCEED 25 OHMS.

COST OF GROUND RODS IS INCIDENTAL TO THE ASSOCIATED ITEMS REQUIRING GROUNDING UNLESS OTHERWISE SPECIFIED.

**GROUND ROD**  
(NOT TO SCALE)

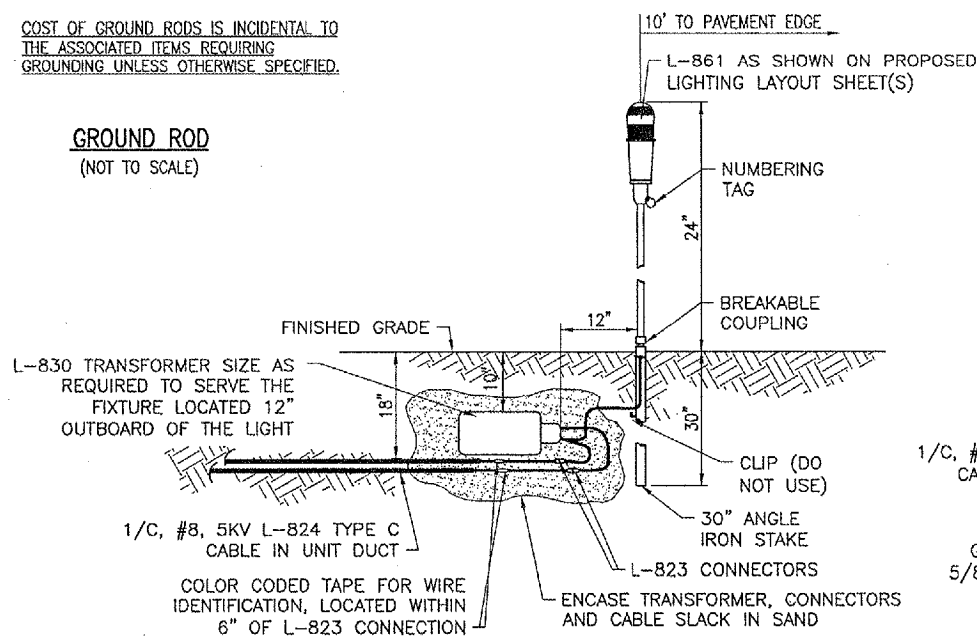


**PLAN VIEW**

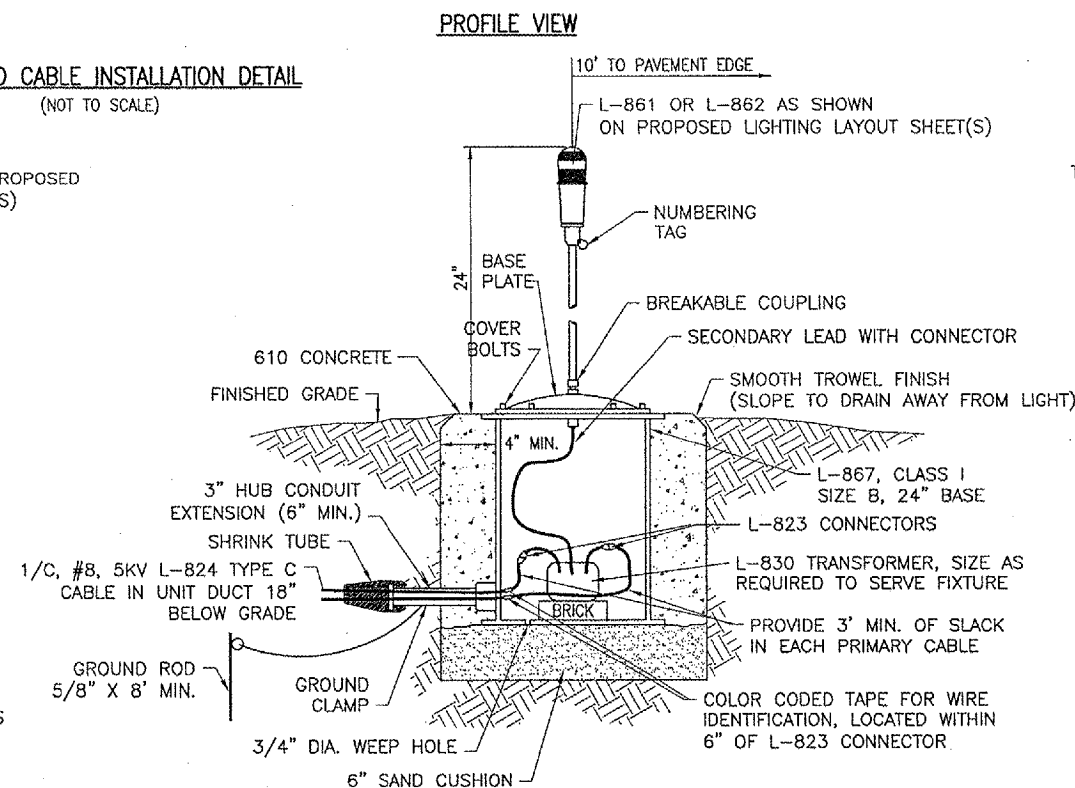


**LIGHT AND CABLE INSTALLATION DETAIL**  
(NOT TO SCALE)

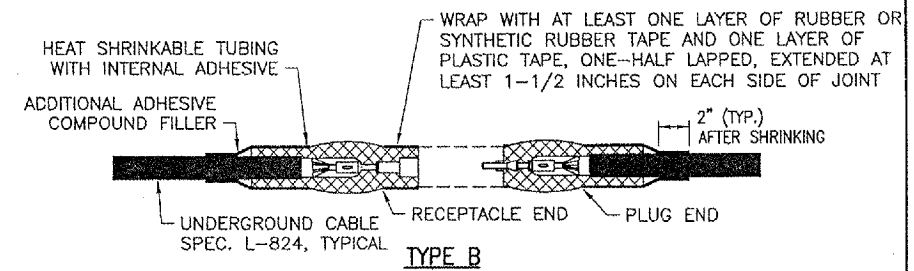
NOTES:  
SEE PROPOSED LIGHTING LAYOUT SHEET FOR LIGHT LOCATIONS.



**MEDIUM INTENSITY LIGHT -- STAKE MOUNTED**  
(NOT TO SCALE)

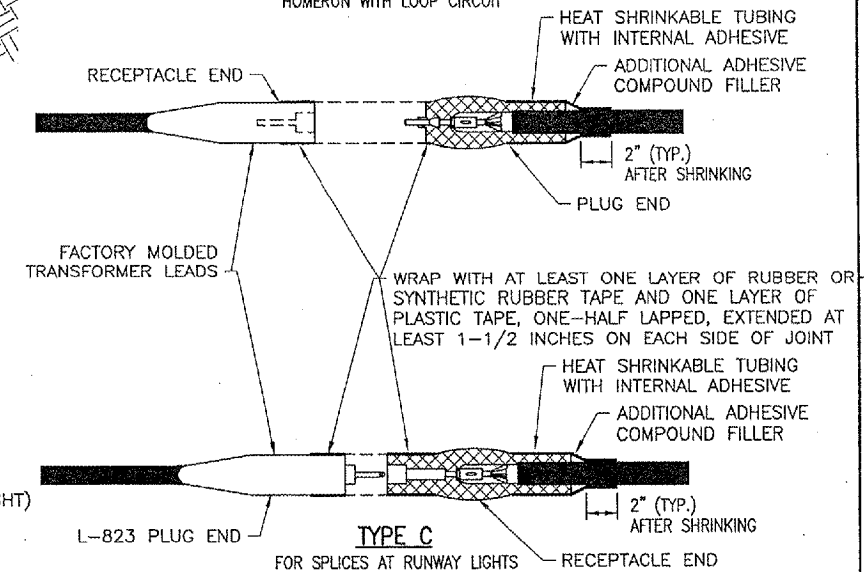


**MEDIUM/HIGH INTENSITY LIGHT -- BASE MOUNTED**  
(NOT TO SCALE)



**TYPE B**

FOR SPLICES AT JUNCTION OF HOMERUN WITH LOOP CIRCUIT



**TYPE C**

FOR SPLICES AT RUNWAY LIGHTS

NOTES:  
SEE PROPOSED LIGHTING LAYOUT SHEET(S) FOR SPLICE TYPE.

INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE.

**CABLE SPLICES**  
(NOT TO SCALE)

REVISION	DATE	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS  
A.I.P. PROJ.: RSV-3480  
I.L. PROJ.: 3-17-0086-810

SE Project No.	838-04RWY	DATE	01/13/04
File Name	R-541ELE.DWG	SCALE	NONE
Scale	NONE	LAYOUT	CCC 01/13/04
Date	01/13/04	DRAWN	CCC 01/13/04
		REVIEWED	CAH 03/05/04



RUNWAY 9-27  
WIDENING  
ELECTRICAL DETAILS

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GENERAL

1. THE ELECTRICAL INSTALLATION, AS A MINIMUM, SHALL MEET THE NATIONAL ELECTRICAL CODE (LATEST RECOGNIZED VERSION) AND LOCAL REGULATIONS.
2. THE CONTRACTOR SHALL ASCERTAIN THAT ALL LIGHTING SYSTEM COMPONENTS FURNISHED BY HIM, INCLUDING FAA APPROVED EQUIPMENT, ARE COMPATIBLE IN ALL RESPECTS WITH EACH OTHER AND THE REMAINDER OF THE NEW/EXISTING SYSTEM. ANY NONCOMPATIBLE COMPONENTS FURNISHED BY THIS CONTRACTOR SHALL BE REPLACED BY HIM AT NO ADDITIONAL COST TO THE AIRPORT SPONSOR WITH A SIMILAR UNIT, APPROVED BY THE ENGINEER (DIFFERENT MODEL OR DIFFERENT MANUFACTURER) THAT IS COMPATIBLE WITH THE REMAINDER OF THE AIRPORT LIGHTING SYSTEM.
3. IN CASE THE CONTRACTOR ELECTS TO FURNISH AND INSTALL AIRPORT LIGHTING EQUIPMENT REQUIRING ADDITIONAL WIRING, TRANSFORMERS, ADAPTORS, MOUNTINGS, ETC., TO THOSE SHOWN ON THE DRAWINGS AND/OR LISTED IN THE SPECIFICATION, ANY COST FOR THESE ITEMS SHALL BE INCIDENTAL TO THE EQUIPMENT COST.
4. THE CONTRACTOR INSTALLED EQUIPMENT (INCLUDING FAA APPROVED) SHALL NOT GENERATE ANY ELECTROMAGNETIC INTERFERENCE IN THE EXISTING AND/OR NEW COMMUNICATIONS, WEATHER, AIR NAVIGATION, AND AIR TRAFFIC CONTROL EQUIPMENT. ANY EQUIPMENT GENERATING SUCH INTERFERENCE SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST WITH THE EQUIPMENT MEETING THE APPLICABLE SPECIFICATIONS AND NOT GENERATING ANY INTERFERENCE.
5. WHEN A SPECIFIC TYPE, STYLE, CLASS, ETC. OF FAA APPROVED EQUIPMENT IS SPECIFIED ONLY THAT TYPE, STYLE, CLASS, WILL BE ACCEPTABLE, EVEN THOUGH EQUIPMENT OF OTHER TYPES STYLES, CLASSES, ETC. MAY BE APPROVED.
6. ANY AND ALL INSTRUCTIONS FROM THE ENGINEER TO THE CONTRACTOR REGARDING CHANGES IN OR DEVIATIONS FROM THE PLANS AND SPECIFICATIONS SHALL BE IN WRITING WITH COPIES SENT TO THE AIRPORT SPONSOR AND THE FAA FIELD OFFICE (ADO/AFO). THE CONTRACTOR SHALL NOT ACCEPT ANY VERBAL INSTRUCTIONS FROM THE RESIDENT ENGINEER REGARDING ANY CHANGES FROM THE PLANS AND SPECIFICATIONS.
7. A MINIMUM OF THREE COPIES OF THE INSTRUCTION BOOK SHALL BE SUPPLIED WITH EACH DIFFERENT TYPE OF EQUIPMENT. THE BOOKS DESCRIBING A MORE SOPHISTICATED TYPE OF EQUIPMENT, SUCH AS REGULATORS, PAPI, REIL, ETC. AS A MINIMUM SHALL CONTAIN THE FOLLOWING:
  - A. A DETAILED DESCRIPTION OF THE OVERALL EQUIPMENT AND ITS INDIVIDUAL COMPONENTS.
  - B. THEORY OF OPERATION INCLUDING THE FUNCTION OF EACH COMPONENT.
  - C. INSTALLATION INSTRUCTIONS.
  - D. START-UP INSTRUCTIONS.
  - E. PREVENTATIVE MAINTENANCE REQUIREMENTS.
  - F. CHART FOR TROUBLE-SHOOTING.
  - G. COMPLETE POWER AND CONTROL DETAILED WIRING DIAGRAM(S), SHOWING EACH CONDUCTOR/CONNECTION/COMPONENT - "BLACK" BOXES ARE NOT ACCEPTABLE. THE DIAGRAM OF THE NARRATIVE SHALL SHOW VOLTAGE/CURRENTS/WAVE SHAPES AT STRATEGIC LOCATIONS TO BE USED WHEN CHECKING AND/OR TROUBLE-SHOOTING THE EQUIPMENT. WHEN THE EQUIPMENT HAS SEVERAL MODES OF OPERATION, SUCH AS SEVERAL BRIGHTNESS STEPS, THESE PARAMETERS SHALL BE INDICATED FOR ALL DIFFERENT MODES.
  - H. PARTS LIST WHICH WILL INCLUDE ALL MAJOR AND MINOR COMPONENTS SUCH AS RESISTORS, DIODES, ETC. IT SHALL INCLUDE A COMPLETE NOMENCLATURE OF EACH COMPONENT AND, IF APPLICABLE, THE NAME OF ITS MANUFACTURER AND THE CATALOG NUMBER.
  - I. SAFETY INSTRUCTIONS.

POWER AND CONTROL

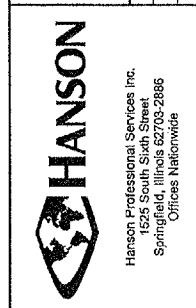
1. STENCIL ALL ELECTRICAL EQUIPMENT TO IDENTIFY FUNCTION, CIRCUIT VOLTAGE AND PHASE. WHERE THE EQUIPMENT CONTAINS FUSES, ALSO STENCIL THE FUSE OR FUSE LINK AMPERE RATING. WHERE THE EQUIPMENT DOES NOT HAVE SUFFICIENT STENCILING AREA, THE STENCILING SHALL BE DONE ON THE WALL NEXT TO THE UNIT. THE LETTERS SHALL BE ONE INCH HIGH AND PAINTED IN WHITE OR BLACK TO PROVIDE THE HIGHEST CONTRAST WITH THE BACKGROUND.
2. COLOR CODE ALL PHASE WIRING BY THE USE OF COLORED WIRE INSULATION AND/OR COLORED TAPE. WHERE TAPE IS USED, THE WIRE INSULATION SHALL BE BLACK, BLACK AND RED SHALL BE USED FOR SINGLE-PHASE, THREE WIRE SYSTEMS AND BLACK, RED AND BLUE SHALL BE USED FOR THREE-PHASE SYSTEMS. NEUTRAL CONDUCTORS, SIZE NO. 6 AWG OR SMALLER, SHALL BE IDENTIFIED BY A CONTINUOUS WHITE OR NATURAL GRAY OUTER FINISH ALONG ITS ENTIRE LENGTH. NEUTRAL CONDUCTORS LARGER THAN NO. 6 AWG SHALL BE IDENTIFIED EITHER BY A CONTINUOUS WHITE OR NATURAL GRAY OUTER FINISH ALONG ITS ENTIRE LENGTH OR BY THE USE OF WHITE TAPE AT ITS TERMINATIONS AND INSIDE ACCESSIBLE WIREWAYS.
3. ALL BRANCH CIRCUIT CONDUCTORS CONNECTED TO A PARTICULAR PHASE SHALL BE IDENTIFIED WITH THE SAME COLOR. THE COLOR CODING SHALL BE EXTENDED TO THE POINT OF UTILIZATION.
4. IN CONTROL WIRING THE SAME COLOR SHALL BE USED THROUGHOUT THE SYSTEM FOR THE SAME FUNCTION, SUCH AS 10%, 30%, 100% BRIGHTNESS CONTROL, ETC.
5. LOW VOLTAGE (600 V.) AND HIGH VOLTAGE (5000 V.) CONDUCTORS SHALL BE INSTALLED IN SEPARATE WIREWAYS.
6. NEATLY LACE WIRING IN DISTRIBUTION PANELS, WIREWAYS, SWITCHES AND JUNCTION/PULL BOXES.
7. THE MINIMUM SIZE OF PULL/JUNCTION BOXES, REGARDLESS OF THE QUANTITY AND SIZE OF THE CONDUCTORS SHOWN, SHALL BE AS FOLLOWS:
  - A. IN STRAIGHT PULLS THE LENGTH OF THE BOX SHALL NOT BE LESS THAN EIGHT TIMES THE TRADE DIAMETER OF THE LARGER CONDUIT. THE TOTAL AREA (INCLUDING THE CONDUIT CROSS-SECTIONAL AREA) OF A BOX END SHALL BE AT LEAST 3 TIMES GREATER THAN THE TOTAL TRADE CROSS-SECTIONAL AREA OF THE CONDUITS TERMINATING AT THE END.
  - B. IN ANGLE PULLS OR 'U' PULLS THE DISTANCE BETWEEN EACH CONDUIT ENTRY INSIDE THE BOX AND THE OPPOSITE WALL OF THE BOX SHALL NOT BE LESS THAN SIX (6) TIMES THE TRADE DIAMETER OF THE LARGEST CONDUIT. THIS DISTANCE SHALL BE INCREASED FOR ADDITIONAL ENTRIES BY THE AMOUNT OF THE SUM OF THE DIAMETERS OF ALL OTHER CONDUIT ENTRIES ON THE SAME WALL AS THE BOX. THE DISTANCE BETWEEN CONDUIT ENTRIES ENCLOSING THE SAME CONDUCTOR SHALL NOT BE LESS THAN SIX TIMES THE TRADE DIAMETER OF THE LARGEST CONDUIT.
8. A RUN OF CONDUIT BETWEEN TERMINATIONS AT EQUIPMENT ENCLOSURES, SQUARE DUCTS AND PULL/JUNCTION BOXES, SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL), INCLUDING THOSE BENDS LOCATED IMMEDIATELY AT THE TERMINATIONS, CAST, CONDUIT TYPE OUTLETS SHALL NOT BE TREATED AS PULL/JUNCTION BOXES.
9. EQUIPMENT CABINETS SHALL NOT BE USED AS PULL/JUNCTION BOXES. ONLY WIRING TERMINATING AT THE EQUIPMENT SHALL BE BROUGHT INTO THESE ENCLOSURES.
10. SPLICES AND JUNCTION POINTS SHALL BE PERMITTED ONLY IN JUNCTION BOXES, DUCTS EQUIPPED WITH REMOVABLE COVERS, AND AT EASILY ACCESSIBLE LOCATIONS.
11. CIRCUIT BREAKERS IN POWER DISTRIBUTION PANEL(S) SHALL BE THERMAL-MAGNETIC MOLDED CASE, PERMANENT TRIP WITH 100 AMPERE, MINIMUM FRAME.
12. DUAL LUGS SHALL BE USED WHERE TWO (2) WIRES, SIZE NO. 6 OR LARGER, ARE TO BE CONNECTED TO THE SAME TERMINAL.
13. ALL WALL MOUNTED EQUIPMENT ENCLOSURES SHALL BE MOUNTED ON WOODEN MOUNTING BOARDS.
14. WOODEN EQUIPMENT MOUNTING BOARDS SHALL BE PLYWOOD, EXTERIOR TYPE, 3/4 INCH, MINIMUM, THICKNESS, BOTH SIDES PAINTED WITH ONE COAT OF PRIMER AND TWO COATS OF GRAY OIL-BASED PAINT.
15. RIGID STEEL CONDUIT SHALL BE USED THROUGHOUT THE INSTALLATION UNLESS OTHERWISE SPECIFIED. THE MINIMUM TRADE SIZE SHALL BE 3/4 INCH.
16. ALL RIGID CONDUIT SHALL BE TERMINATED AT CONSTANT CURRENT REGULATORS WITH A SECTION (10" MINIMUM) OF FLEXIBLE CONDUIT.
17. UNLESS OTHERWISE SHOWN, ALL EXPOSED CONDUITS SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES WITH THE LINES OF THE STRUCTURE.
18. ALL STEEL CONDUITS, FITTINGS, NUTS, BOLTS, ETC. SHALL BE GALVANIZED.
19. USE CONDUIT BUSHINGS AT EACH CONDUIT TERMINATION. WHERE NO. 4 AWG OR LARGER UNDERGROUND WIRE IS INSTALLED, USE INSULATED BUSHINGS.
20. USE DOUBLE LOCK NUTS AT EACH CONDUIT TERMINATION.
21. WRAP ALL PRIMARY AND SECONDARY POWER TRANSFORMER CONNECTIONS WITH SUFFICIENT LAYERS OF INSULATING TAPE AND COVER WITH INSULATING VARNISH FOR FULL VALUE OF CABLE INSULATION VOLTAGE.
22. UNLESS OTHERWISE NOTED, ALL INDOOR SINGLE CONDUCTOR CONTROL WIRING SHALL BE NO. 12 AWG. MINIMUM.
23. THE FOLLOWING SHALL APPLY TO RELAY/CONTACTOR PANELS/ENCLOSURES:
  - A. ALL COMPONENTS SHALL BE MOUNTED IN DUST PROOF ENCLOSURE(S) WITH VERTICALLY HINGED COVERS.
  - B. THE ENCLOSURE(S) SHALL HAVE AMPLE SPACE FOR THE CIRCUIT COMPONENTS, TERMINAL BLOCKS AND INCOMING AND INTERNAL WIRING.
  - C. ALL CONTROL CONDUCTOR TERMINATIONS SHALL BE OF THE OPEN-EYE CONNECTOR/SCREW TYPE. SOLDERED CLOSED-EYE TERMINATIONS, OR TERMINATIONS WITHOUT CONNECTORS ARE NOT ACCEPTABLE.
  - D. WHEN THE ENCLOSURE COVER IS OPENED, ALL CIRCUIT COMPONENTS, WIRING AND TERMINALS SHALL BE EXPOSED AND ACCESSIBLE WITHOUT REMOVAL OF ANY PANELS, COVERS, ETC., EXCEPT THOSE COVERING HIGH VOLTAGE COMPONENTS.
  - E. ACCESS TO, OR REMOVAL OF A CIRCUIT COMPONENT OR TERMINAL BLOCK WILL NOT REQUIRE THE REMOVAL OF ANY OTHER CIRCUIT COMPONENT OR TERMINAL BLOCK.
  - F. EACH CIRCUIT COMPONENT SHALL BE CLEARLY IDENTIFIED INDICATING ITS CORRESPONDING NUMBER SHOWN ON THE DRAWINGS AND ITS FUNCTION.
  - G. A COMPLETE WIRING DIAGRAM (NOT A SCHEMATIC DIAGRAM) SHALL BE MOUNTED ON THE INSIDE OF THE COVER. THE DIAGRAM SHALL REPRESENT EACH CONDUCTOR BY A SEPARATE LINE.
  - H. THE DIAGRAM SHALL IDENTIFY EACH CIRCUIT COMPONENT AN NUMBERING AND COLOR OF EACH TERMINAL CONDUCTOR AND TERMINAL.
  - I. ALL WIRING SHALL BE NEATLY TRAINED AND LACED.
  - J. MINIMUM WIRE SIZE SHALL BE NO. 12 AWG.

DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

IL. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

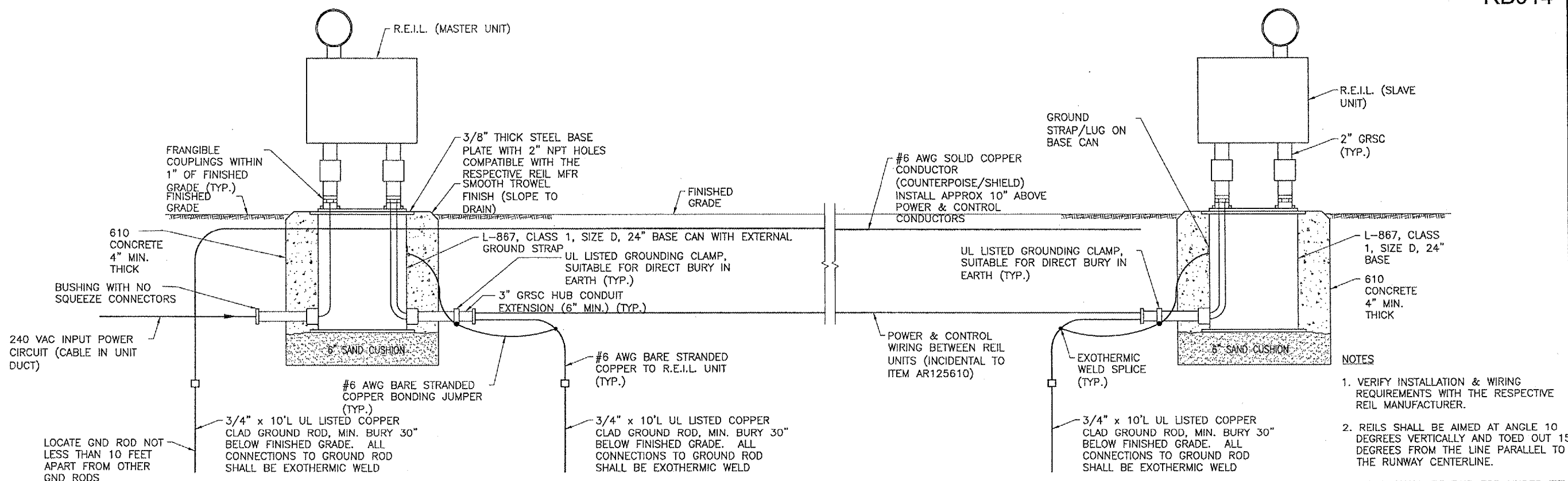
FILE PROJECT No. 838-04RWY	DATE 01/13/04
FILE No. R-541ELE.DWG	DATE 01/13/04
SCALE NONE	DATE 01/13/04
DATE 01/13/04	DATE 03/05/04
LAYOUT	CCC
DRAWN	CCC
REVIEWED	CAH



RUNWAY 9-27  
WIDENING

ELECTRICAL NOTES

JUN 29 2006 9:25 AM CAH  
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- NOTES**
1. VERIFY INSTALLATION & WIRING REQUIREMENTS WITH THE RESPECTIVE REIL MANUFACTURER.
  2. REILS SHALL BE AIMED AT ANGLE 10 DEGREES VERTICALLY AND TOED OUT 15 DEGREES FROM THE LINE PARALLEL TO THE RUNWAY CENTERLINE.
  3. REILS SHALL BE PAID FOR UNDER ITEM AR125610.

**FIELD LIGHTING NOTES**

1. UNLESS OTHERWISE NOTED, ALL UNDERGROUND FIELD POWER MULTIPLE AND SERIES CIRCUIT CONDUCTORS WHETHER DEB OR IN DUCT/CONDUIT SHALL BE FAA APPROVED L-824 TYPE. INSULATION VOLTAGE AND SIZE SHALL BE AS SPECIFIED.
2. NO COMPONENTS OF PRIMARY CIRCUIT SUCH AS CABLE, CONNECTORS AND TRANSFORMERS SHALL BE BROUGHT ABOVE GROUND AT EDGE LIGHTS, SIGNS, REIL, PAPI, ETC.
3. THERE SHALL BE NO EXPOSED POWER/CONTROL CABLES BETWEEN THE POINT WHERE THEY LEAVE THE UNDERGROUND (DEB OR L-867 BASES) AND WHERE THEY ENTER THE EQUIPMENT (SUCH AS TAXIWAY SIGNS, PAPI, REIL, ETC.) ENCLOSURES. THESE CABLES SHALL BE ENCLOSED IN RIGID CONDUIT OR IN FLEXIBLE, WATERTIGHT CONDUIT WITH BREAKABLE COUPLING(S) AT THE GRADE OR THE HOUSING COVER, AS SHOWN IN APPLICABLE DETAILS.
4. THE JOINTS OF THE L-823 PRIMARY CONNECTORS SHALL BE WRAPPED WITH AT LEAST ONE LAYER OF RUBBER OR SYNTHETIC RUBBER TAPE AND ONE LAYER OF PLASTIC TAPE, ONE-HALF LAPPED, EXTENDING AT LEAST 1-1/2 INCHES ON EACH SIDE OF THE JOINT.
5. THE CABLE ENTRANCE INTO THE FIELD-ATTACHED L-823 CONNECTORS SHALL BE ENCLOSED BY A HEAT-SHRINKABLE TUBING WITH CONTINUOUS INTERNAL ADHESIVE.
6. L-823 TYPE II, TWO-CONDUCTOR SECONDARY CONNECTORS SHALL BE CLASS 'A' (FACTORY MOLDED).
7. THERE SHALL BE NO SPLICES IN THE SECONDARY CABLE(S) WITHIN THE STEMS OF A RUNWAY/TAXIWAY EDGE/THRESHOLD LIGHTING FIXTURE AND THE WIREWAYS LEADING TO TAXIWAY SIGNS AND PAPI/REIL EQUIPMENT.
8. ELECTRICAL INSULATING GREASE SHALL BE APPLIED WITHIN THE L-823, SECONDARY, TWO CONDUCTOR CONNECTORS TO PREVENT WATER ENTRANCE. THESE CONNECTORS SHALL NOT BE TAPED.
9. DEB ISOLATION TRANSFORMERS SHALL BE BURIED AT A DEPTH OF TEN (10") INCHES ON A LINE CROSSING THE LIGHT AND PERPENDICULAR TO THE RUNWAY/TAXIWAY CENTERLINE AT A LOCATION TWELVE (12") INCHES FROM THE LIGHT OPPOSITE FROM THE RUNWAY/TAXIWAY.

10. A SLACK OF THREE (3') FEET, MINIMUM, SHALL BE PROVIDED IN THE PRIMARY CABLE AT EACH TRANSFORMER/CONNECTOR TERMINATION. AT STAKE-MOUNTED LIGHTS, THE SLACK SHALL BE LOOSELY COILED IMMEDIATELY BELOW THE ISOLATION TRANSFORMER.
11. DIRECTION OF PRIMARY CABLES SHALL BE IDENTIFIED BY COLOR CODING AS FOLLOWS: WHEN FACING LIGHT WITH BACK TO PAVEMENT, CABLE TO THE LEFT IS CODED RED AND CABLE TO RIGHT IS CODED BLUE. THIS APPLIES TO STAKE MOUNTED LIGHTS AND BASE MOUNTED LIGHTS WHERE THE BASE HAS ONLY ONE ENTRANCE.
12. L-867 BASES SHALL BE SIZE B, 24" DEEP, CLASS I, UNLESS OTHERWISE NOTED.
13. BASE MOUNTED BREAKABLE COUPLINGS SHALL NOT HAVE WEEP HOLES TO THE OUTSIDE. PLUGGED UP HOLES SHALL NOT BE ACCEPTABLE. IT SHALL BE A 1/4" DIAMETER, MINIMUM, OR EQUIVALENT OPENING FOR DRAINAGE FROM THE SPACE AROUND THE SECONDARY CONNECTOR INTO THE L-867 BASE.
14. THE ELEVATION OF THE BREAKABLE COUPLING GROOVE SHALL NOT EXCEED 1-1/2" ABOVE THE EDGE OF THE COVER IN CASE OF BASE MOUNTED COUPLINGS, OR THE TOP OF THE STAKE IN CASE OF STAKE MOUNTED COUPLINGS.
15. WHERE THE BREAKABLE COUPLING IS NOT AN INTEGRAL PART OF THE LIGHT FIXTURE STEM OR MOUNTING LEG, A BEAD OF SILICON SEAL SHALL BE APPLIED COMPLETELY AROUND LIGHT STEM OR WIREWAY AT BREAKABLE COUPLING TO PROVIDE A WATERTIGHT SEAL.
16. TOPS OF THE STAKES SUPPORTING LIGHT FIXTURES SHALL BE FLUSH WITH THE SURROUNDING GRADE.
17. PLASTIC LIGHTING FIXTURE COMPONENTS, SUCH AS LAMP HEADS, STEMS, BREAKABLE COUPLINGS, BASE COVERS, BRACKETS, STAKES, SHALL NOT BE ACCEPTABLE.

**REIL INSTALLATION DETAIL**  
NOT TO SCALE

18. THE TOLERANCE FOR THE HEIGHT OF RUNWAY/TAXIWAY EDGE LIGHTS SHALL BE: ONE (1) INCH. IN CASE OF STAKE MOUNTED LIGHTS, THE SPECIFIED LIGHTING FIXTURE HEIGHT SHALL BE MEASURED BETWEEN THE TOP OF THE STAKE AND THE TOP OF THE LENS. IN CASE OF BASE MOUNTED LIGHTS, THE SPECIFIED LIGHTING FIXTURE HEIGHT SHALL BE MEASURED BETWEEN THE TOP OF THE BASE FLANGE AND THE TOP OF THE LENS, THUS INCLUDING THE BASE COVER, THE FRANGIBLE COUPLING, THE STEM, THE LAMP HOUSING AND THE LENS.
19. THE TOLERANCE FOR THE LATERAL SPACING (LIGHT LANE TO RUNWAY/TAXIWAY CENTERLINE) OF RUNWAY/TAXIWAY EDGE LIGHTS SHALL BE ONE (1) INCH. THIS ALSO APPLIES AT INTERSECTIONS TO LATERAL SPACING BETWEEN LIGHTS OF A RUNWAY/TAXIWAY AND THE INTERSECTING RUNWAY/TAXIWAY.
20. ENTRANCES INTO L-867 BASES SHALL BE SEALED WITH HEAT SHRINK.
21. GALVANIZED/PAINTED EQUIPMENT/COMPONENT SURFACES SHALL NOT BE DAMAGED BY DRILLING, FILING, ETC. DRAIN HOLES IN METAL TRANSFORMER HOUSINGS SHALL BE MADE BEFORE GALVANIZING.
22. EDGE LIGHT NUMBERING TAGS SHALL BE FACING THE PAVEMENT.
23. CABLE/SPLICE/DUCT MARKERS SHALL BE PRECAST CONCRETE OF THE SIZE SHOWN. LETTERS/NUMBERS/ARROWS FOR THE LEGEND TO BE IMPRESSED INTO THE TOPS OF THE MARKERS SHALL BE PRE-ASSEMBLED AND SECURED IN THE MOLD BEFORE THE CONCRETE IS POURED. LEGEND INSCRIBED BY HAND IN WET CONCRETE SHALL NOT BE ACCEPTABLE.
24. ALL UNDERGROUND CABLE RUNS SHALL BE IDENTIFIED BY CABLE MARKERS AT 200 FEET MAXIMUM SPACING, WITH AN ADDITIONAL MARKER AT EACH CHANGE OF DIRECTION OF THE CABLE RUN. CABLE MARKERS SHALL BE INSTALLED IMMEDIATELY ABOVE THE CABLES.
25. THERE SHALL BE NO SPLICES BETWEEN THE ISOLATION TRANSFORMERS. L-823 CONNECTORS ARE ALLOWED AT TRANSFORMER CONNECTIONS ONLY, UNLESS OTHERWISE SHOWN.
26. APPLY AN OXIDE INHIBITING, ANTI-SEIZING COMPOUND TO ALL SCREWS, NUTS AND BREAKAGE COUPLING THREADS.

**GROUNDING NOTES**

1. ALL GROUND CONNECTIONS TO GROUND RODS, BUSES, PANELS, ETC. SHALL BE MADE WITH PRESSURE TYPE SOLDERLESS LUGS AND GROUND CLAMPS SOLDERED OR BOLT AND WASHER TYPE CONNECTIONS ARE NOT ACCEPTABLE. CLEAN ALL METAL SURFACES BEFORE MAKING GROUND CONNECTIONS. CONNECTIONS TO GROUND RODS SHALL BE EXOTHERMIC WELD WHERE SPECIFIED HEREIN.
2. TOP OF GROUND RODS SHALL BE TEN (10) INCHES BELOW GRADE UNLESS SPECIFIED OTHERWISE HEREIN, FOR RESPECTIVE APPLICATIONS.
3. THE RESISTANCE TO GROUND OF THE VAULT GROUNDING SYSTEM WITH THE COMMERCIAL POWER LINE NEUTRAL DISCONNECTED SHALL NOT EXCEED 10 OHMS.

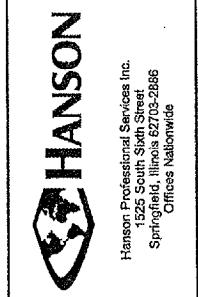
JUN 29, 2006 9:45 AM BAK I:\AIRPORTS\ROBINSON\838-04RWY\AIRPORT\SHEETS\R-541ELE.DWG - Elec. Notes 2

REVISION	DATE	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

IL PROJ.: RSV-3490 A.I.P. PROJ.: J-17-0086-B10

Project No.	838-04RWY	DATE	01/13/04
Filename	R-541ELE.DWG	CCC	01/13/04
Scale	NONE	CCC	01/13/04
		CAH	03/05/04



RUNWAY 9-27  
WIDENING

ELECTRICAL NOTES

**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

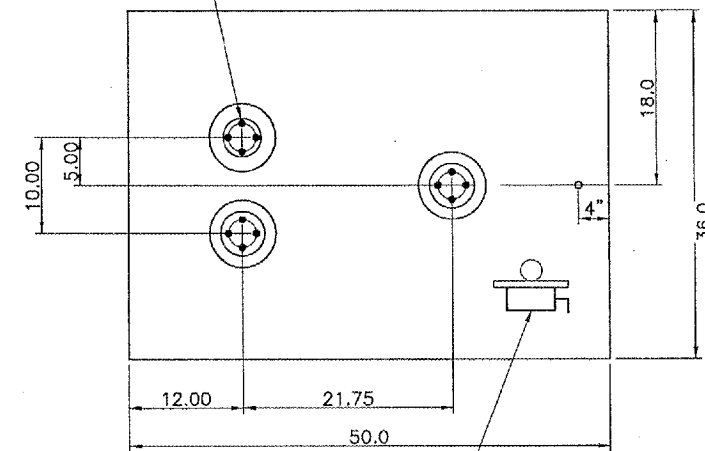
LEG ASSEMBLY

EXISTING FRANGIBLE COUPLING

PROPOSED 3/4" EXPANSION JOINT

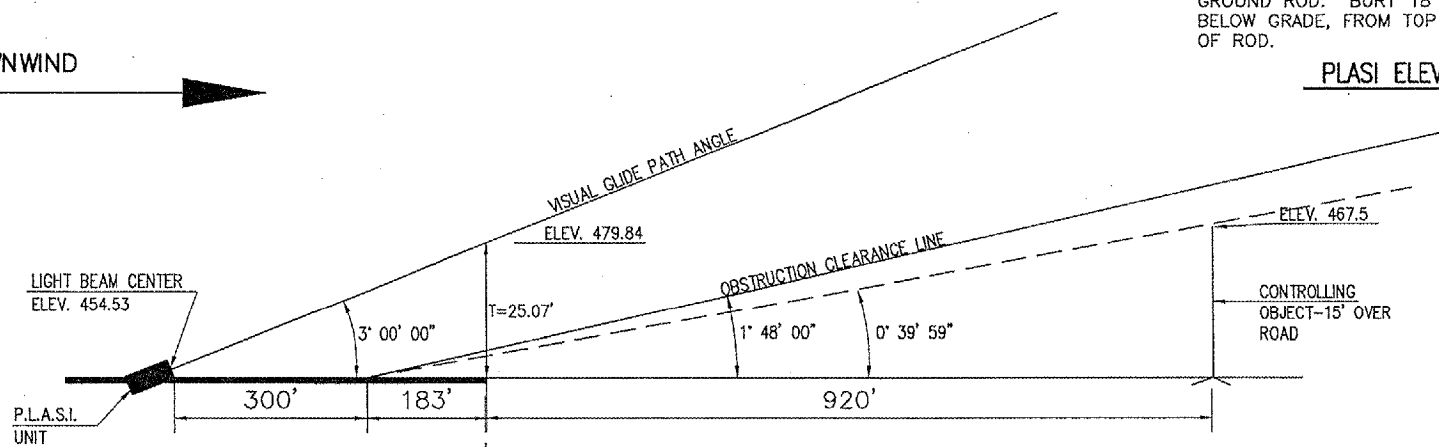
8" DIA. CONCRETE PEDESTALS

(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)



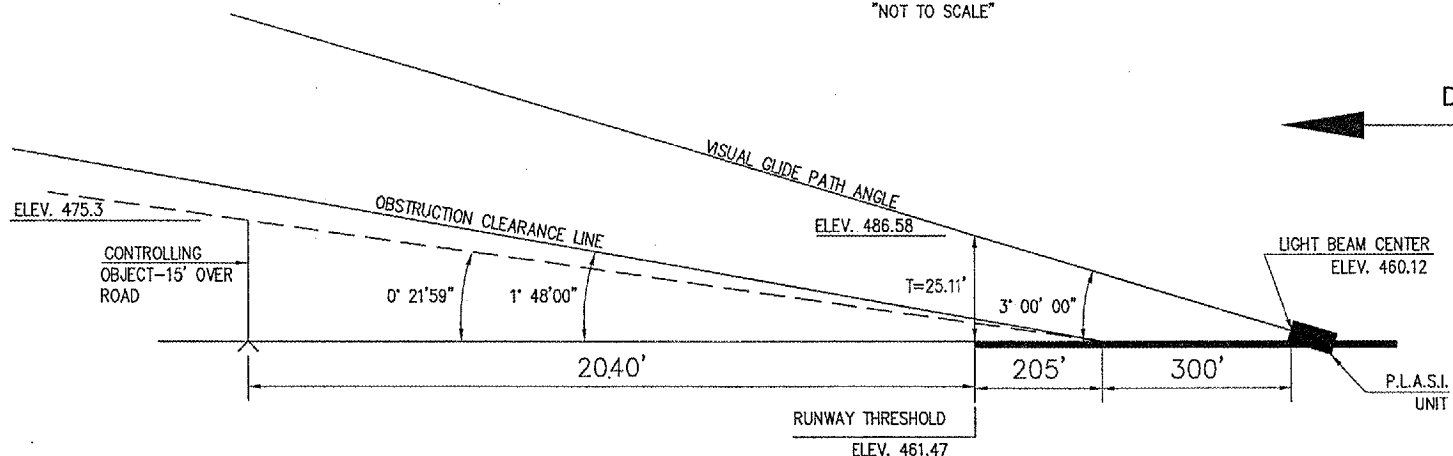
SAFETY SWITCH FOR PLASI WITH SUPPORT HARDWARE (APPROX. LOCATION). SEE ELEVATION DETAIL.

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"

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-CHRWY	DATE 02/13/04	REVIEWED CAH
FILENAME R-541ELE.DWG	SCALE NONE	DATE 02/13/04
LAYOUT	CCC	02/13/04
DRAWN	CCC	02/13/04
REVIEWED	CAH	03/05/04



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Springfield, Illinois 62703-2886  
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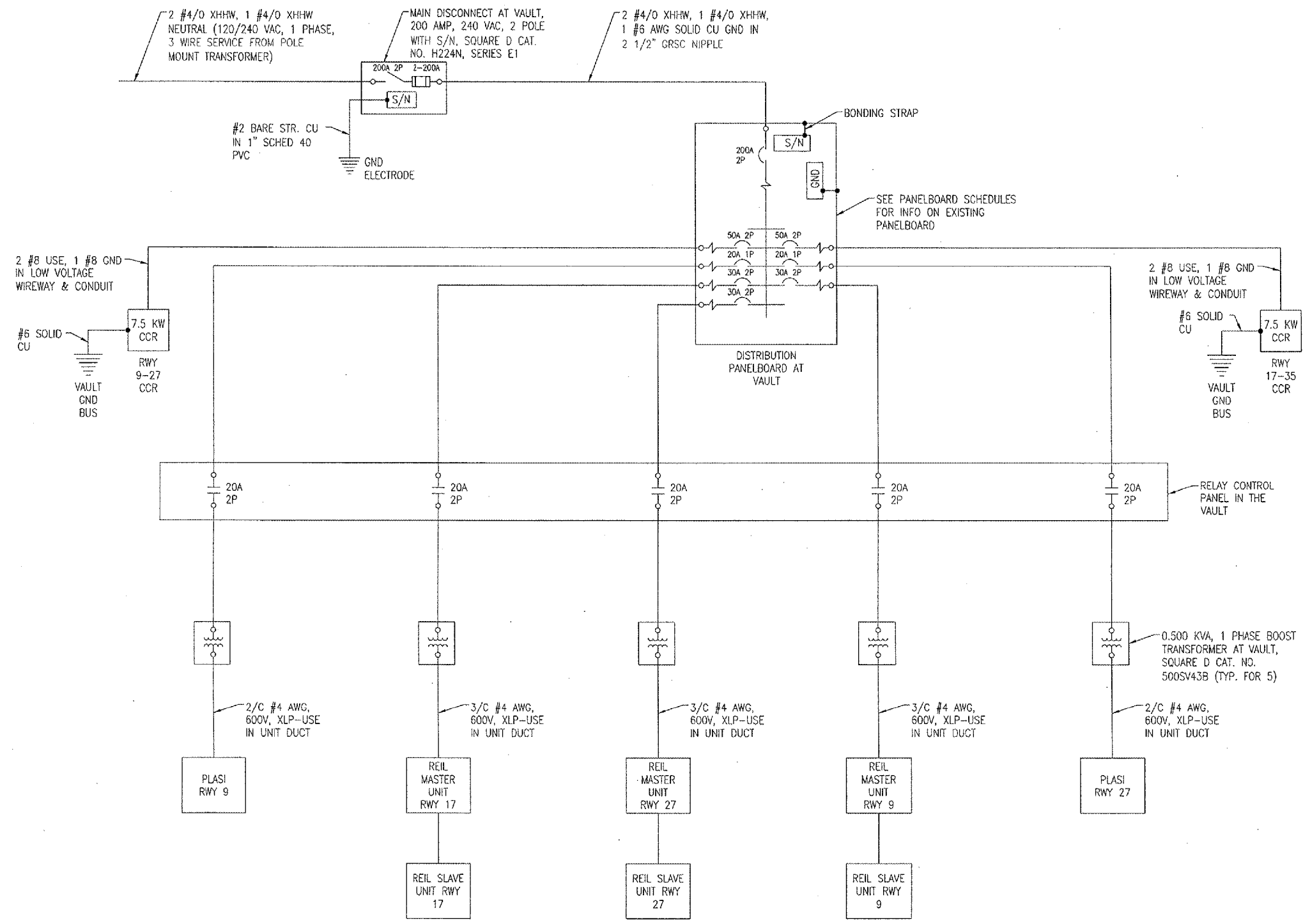
RUNWAY 9-27  
WIDENING

PROPOSED  
P.L.A.S.I. DETAILS



NOTES

1. ALL VAULT WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
3. CCR DENOTES CONSTANT CURRENT REGULATOR.



EXISTING ELECTRICAL ONE LINE DIAGRAM  
FOR VAULT, PLASI'S, & REIL'S

DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS  
A.I.P. PROJ.: 3-17-0088-B10  
IL. PROJ.: RSV-3490

Project No. 838-04RWY	File Name E-601.DWG	Scale NONE	Date 01/13/04
LAYOUT	KNL	03/04/04	03/05/04
DRAWN	MV	03/05/04	03/05/04
REVIEWED	CAH	03/05/04	



RUNWAY 9-27  
WIDENING  
EXISTING ELECTRICAL  
ONE LINE DIAGRAM FOR  
VAULT, PLASI'S & REIL'S

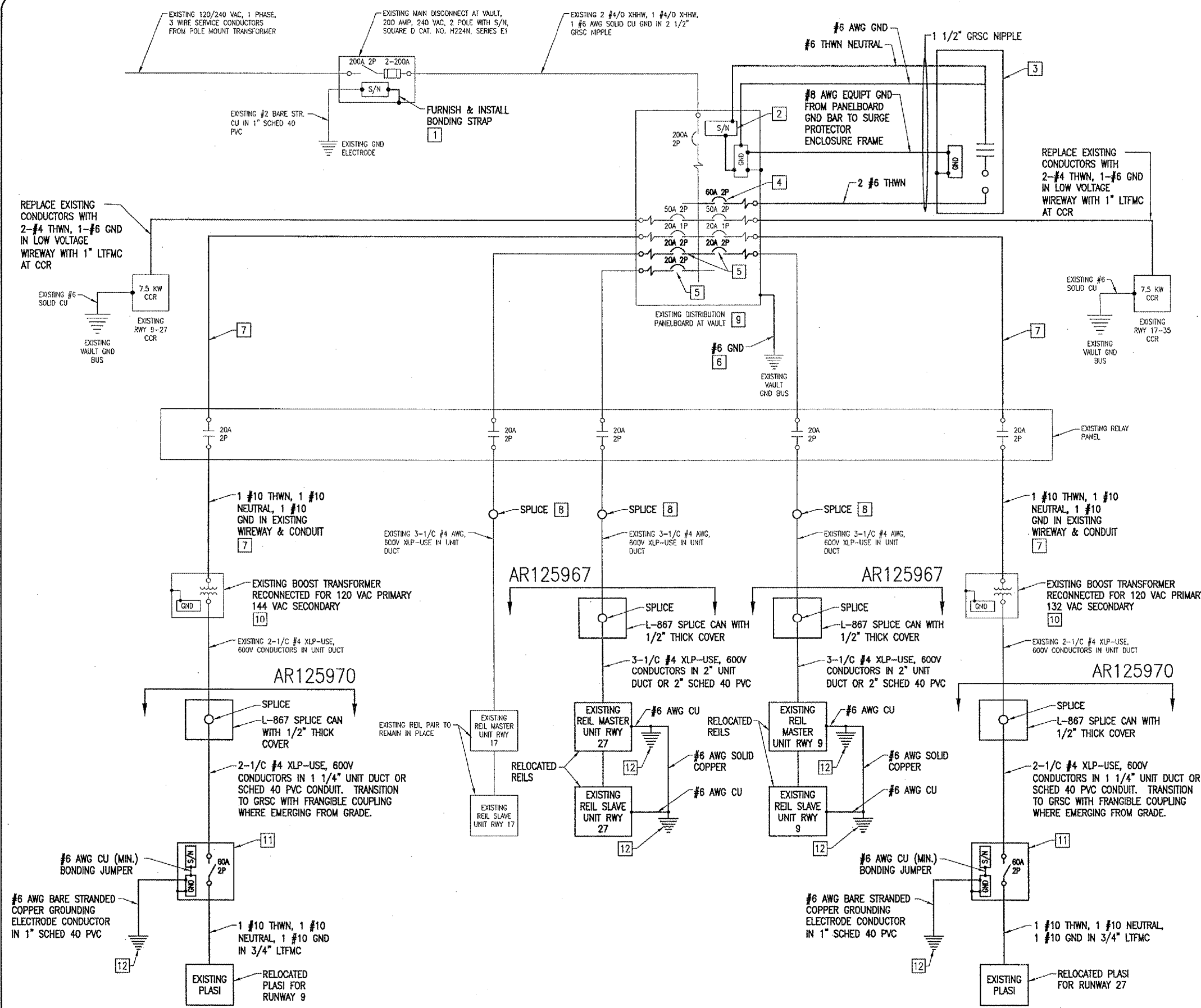
NOTES

1. ALL VAULT WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT AUTHORITY, AND THE RESIDENT ENGINEER.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS & REPORT ANY VARIATIONS TO RESIDENT ENGINEER.
3. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (NEC MOST CURRENT ISSUE IN FORCE), THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING, (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED. CONTRACTOR SHALL KEEP A COPY OF NEC (NATIONAL ELECTRICAL CODE) MOST CURRENT ISSUE IN FORCE, ON SITE FOR USE AS A REFERENCE.
4. ALL EQUIPMENT NOT LABELED AS EXISTING IS NEW.
5. 120/240 VAC, 1 PHASE, 3 WIRE CIRCUITS SHALL BE COLOR CODED PHASE A - BLACK, PHASE B - RED, & NEUTRAL - WHITE. INSULATED GROUND WIRES SHALL HAVE GREEN COLORED INSULATION FOR ALL CONDUCTOR AWG (SIZES). HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME RACEWAY. FIELD VERIFY CONDUIT & CABLE ROUTING.
6. GRSC DENOTES GALVANIZED RIGID STEEL CONDUIT. LTFMC DENOTES LIQUID TIGHT FLEXIBLE METAL CONDUIT UL LISTED SUITABLE FOR GROUNDING, AND SUNLIGHT RESISTANT.
7. VAULT WORK SHALL BE PAID FOR UNDER ITEM AR109210.

KEYED NOTES

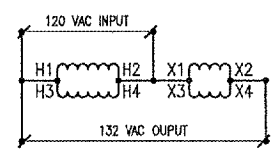
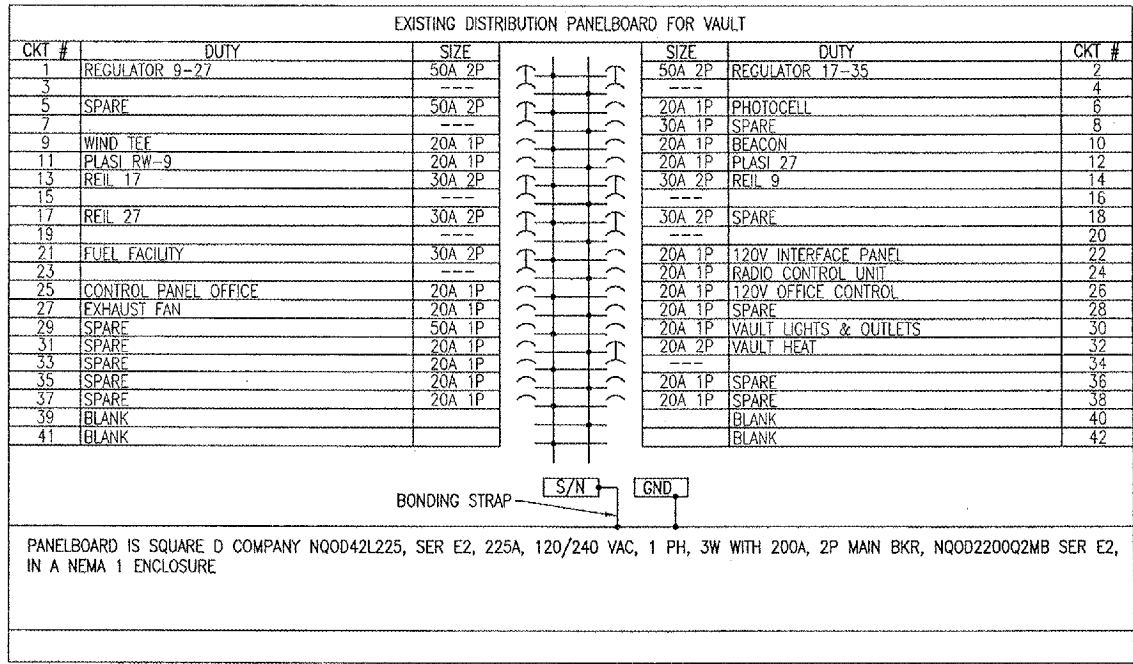
- 1 FURNISH & INSTALL A NEUTRAL BONDING STRAP FOR THE EXISTING MAIN DISCONNECT/ SAFETY SWITCH, BONDING STRAP SHALL BE SQUARE D CAT. NO. 40552-19450. CONFIRM CAT. NO. WITH SQUARE D FOR THE RESPECTIVE SAFETY SWITCH.
- 2 REMOVE EXISTING NEUTRAL BONDING STRAP IN THE DISTRIBUTION PANELBOARD.
- 3 AC SURGE PROTECTOR/TVSS, SUITABLE FOR 120/240 VAC, 1 PH, 3W PLUS GROUND SYSTEM WITH SURGE CURRENT RATING OF 240 KA, 8 x 20 MICROSECOND WAVE PER MODE & STATUS INDICATION LIGHTS IN A NEMA 12 ENCLOSURE, LIGHTNING PROTECTION CORP. MODEL LPC 2020-8U-G, OR APPROVED EQUAL. AC POWER SURGE ARRESTER/ TVSS SHALL BE UL 1449, 2ND EDITION LISTED. AC SURGE PROTECTOR/TVSS DEVICE SHALL BE INSTALLED ON THE RIGHT HAND SIDE OF THE VAULT PANELBOARD. MAINTAIN LEADS AS SHORT & AS STRAIGHT AS POSSIBLE FROM THE PANELBOARD TO THE AC SURGE PROTECTOR/TVSS DEVICE. PROVIDE DUCT SEAL AT CONDUIT TERMINATIONS. EXISTING BOOST TRANSFORMERS SHALL BE REMOVED AND/OR RELOCATED TO PROVIDE WALL MOUNTING SPACE FOR THE AC SURGE PROTECTOR/TVSS DEVICE.
- 4 FURNISH & INSTALL A NEW 60 AMP, 2 POLE BOLT-ON BREAKER WITH 10,000 AIC AT 120/240 VAC, SQUARE D CAT. NO. Q0B260 IN POSITIONS 40 & 42, FOR THE AC SURGE PROTECTOR/TVSS DEVICE.
- 5 REPLACE EXISTING 30A, 2P BREAKER WITH A 20 AMP, 2 POLE BREAKER, SQUARE D CAT. NO. Q0B220, FOR EACH REIL CIRCUIT.
- 6 FURNISH & INSTALL A #6 STRANDED COPPER GROUND CONDUCTOR FROM THE DISTRIBUTION PANELBOARD GROUND BAR OR FRAME TO THE VAULT GROUND BUS.
- 7 REPLACE EXISTING #12 THWN BRANCH CIRCUIT CONDUCTOR FOR PLASI'S WITH #10 THWN CONDUCTORS. INCLUDE #10 GND.
- 8 EXISTING BOOST TRANSFORMER IS NOT REQUIRED FOR THE RESPECTIVE REIL CIRCUIT. REMOVE THE EXISTING BOOST TRANSFORMER. FURNISH & INSTALL 2 #10 THWN CONDUCTORS FROM THE RESPECTIVE RELAY AND SPLICE TO THE EXISTING #4 AWG XLP-USE CONDUCTORS, IN EXISTING WIREWAY OR RELAY PANEL. EXISTING BOOST TRANSFORMERS SHALL REMAIN THE PROPERTY OF THE AIRPORT AUTHORITY.
- 9 SEE PANELBOARD SCHEDULES FOR DETAILS ON CIRCUIT BREAKER REPLACEMENTS & ADDITIONS.
- 10 SEE RESPECTIVE BOOST TRANSFORMER CONNECTION DIAGRAM FOR WIRING MODIFICATIONS.
- 11 HEAVY DUTY 60 AMP, 600 VAC, 2 POLE OR 3 POLE WITH S/N & GND, NOT FUSIBLE SAFETY SWITCH IN A NEMA 3R & 12 ENCLOSURE, SQUARE D CLASS 3110, CAT. NO. HU362AWK WITH SNO610 & GTK0610, OR APPROVED EQUAL. INSTALL AT PLASI. NOTE 60 AMP SAFETY SWITCH REQUIRED TO ACCOMMODATE #4 AWG CONDUCTORS FOR LUG TERMINATIONS & WIRE BENDING SPACE.
- 12 10'L x 3/4" DIA. UL LISTED COPPERCLAD GND ROD. MIN. BURY 30" BELOW GRADE. ALL CONNECTIONS TO GND ROD SHALL BE EXOTHERMIC WELD.

NEW ELECTRICAL ONE LINE DIAGRAM FOR VAULT, PLASI'S, & REIL'S



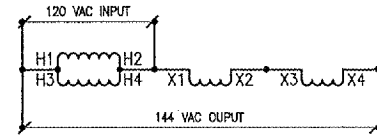
BY	
REVISION	
DATE	
ROBINSON MUNICIPAL AIRPORT ROBINSON CRAWFORD COUNTY, ILLINOIS	
FILED No. 838-04RWY	Scale NONE
DATE 01/13/04	Scale NONE
LAYOUT KNL	03/04/04
DRAWN MV	03/05/04
REVIEWED CAH	03/05/04
 Hanson Professional Services Inc. 6245 South Sixth Street Springfield, Illinois 62703-2886 Offices Nationwide	
PROJECT No. 9-27	NEW ELECTRICAL
WIDENING	ONE LINE DIAGRAM FOR
	VAULT, PLASI'S & REIL'S
34	
34 of 75 sheets	

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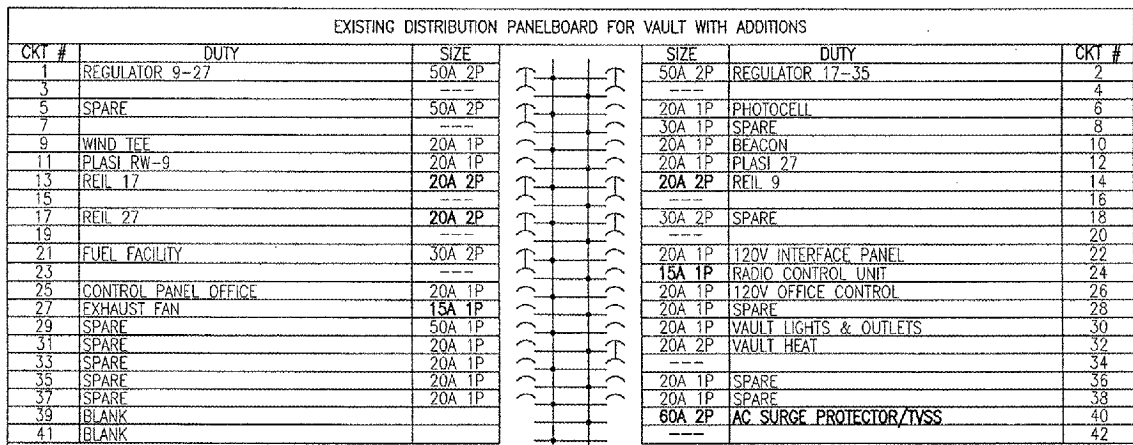
NOTE:  
CONFIRM WIRING WITH RESPECTIVE  
TRANSFORMER MFR.

120 VAC TO 132 VAC BOOST TRANSFORMER  
CONNECTION DIAGRAM FOR SQUARE D  
CAT. NO. 500SV43B TRANSFORMER



NOTE:  
CONFIRM WIRING WITH RESPECTIVE  
TRANSFORMER MFR.

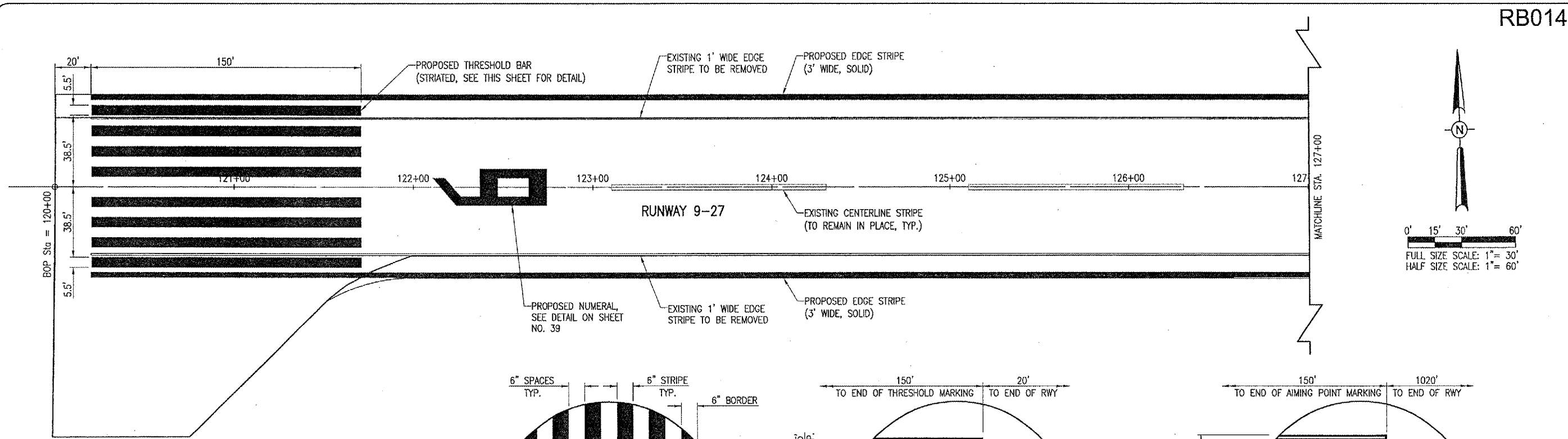
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CONNECTION DIAGRAM FOR SQUARE D  
CAT. NO. 500SV43B TRANSFORMER



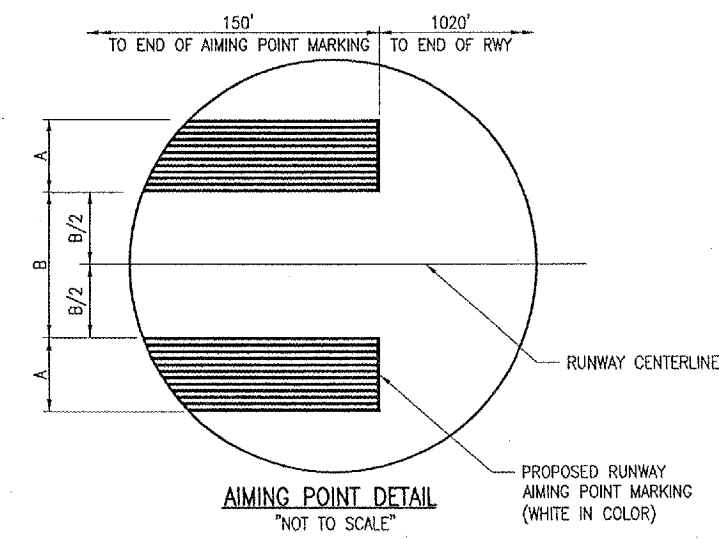
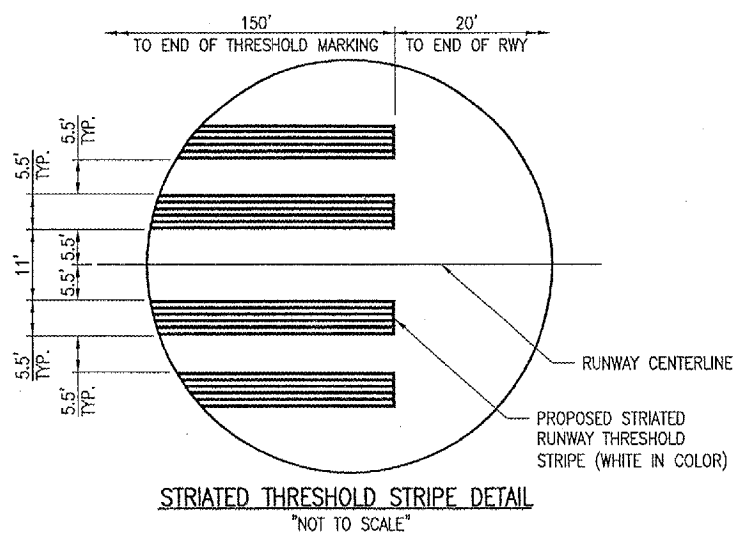
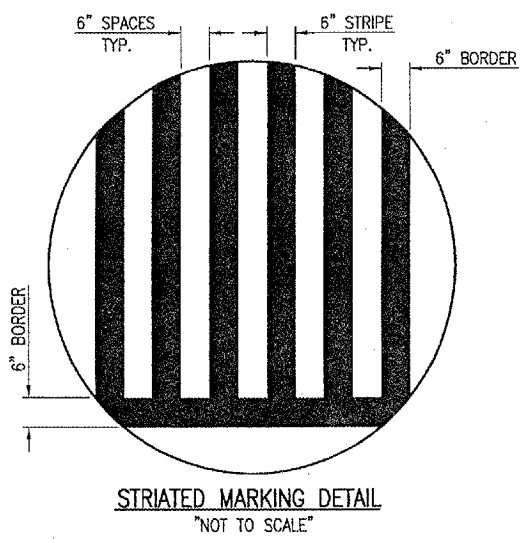
- NOTES
- REMOVE THE NEUTRAL BONDING STRAP BETWEEN THE NEUTRAL BUS AND THE ENCLOSURE FRAME.
  - BOND THE PANELBOARD EQUIPMENT GROUND BAR TO THE VAULT GROUND BUS WITH A #6 AWG STRANDED COPPER BONDING JUMPER.
  - REPLACE THE EXISTING 30 AMP, 2 POLE BREAKERS FOR REIL 17, REIL 9, & REIL 27 WITH NEW 20 AMP, 2 POLE, BOLT-ON BREAKERS WITH 10,000 AIC AT 120/240 VAC, SQUARE D CAT. NO. QOB220.
  - FURNISH & INSTALL A NEW 60 AMP, 2 POLE BOLT-ON BREAKER WITH 10,000 AIC AT 120/240 VAC, SQUARE D CAT. NO. QOB260 IN POSITIONS 40 & 42 FOR THE AC SURGE PROTECTOR/TVSS DEVICE. LEADS TO AC SURGE PROTECTOR SHALL BE AS SHORT & AS STRAIGHT AS POSSIBLE.
  - REPLACE THE 20 AMP, 1 POLE BREAKER FOR THE RADIO CONTROL UNIT WITH A NEW 15 AMP, 1 POLE, BOLT-ON BREAKER WITH 10,000 AIC AT 120/240 VAC, SQUARE D CAT. NO. QOB115.
  - REPLACE THE 20 AMP, 1 POLE BREAKER FOR THE EXHAUST FAN WITH A NEW 15 AMP, 1 POLE, BOLT-ON BREAKER WITH 10,000 AIC AT 120/240 VAC, SQUARE D CAT. NO. QOB115.
  - ALL EXISTING BREAKERS SCHEDULED FOR REPLACEMENT SHALL REMAIN AIRPORT AUTHORITY PROPERTY.
  - UPDATE CIRCUIT DIRECTORY TO REFLECT ALL ADDITIONS.

REVISION DATE			
ROBINSON MUNICIPAL AIRPORT ROBINSON CRAWFORD COUNTY, ILLINOIS A.I.P. PROJ.: 3-17-0086-B10			
I.E. Project No. 838-04RWY E-803.DWG Scale NONE Date 01/13/04	LAYOUT KNL DRAWN MW REVIEWED CAH	03/04/04 03/05/04	
Hanson Professional Services Inc. 1050 S. Oldfield Rd. Springfield, IL 62703-2886 Offices Nationwide			
RUNWAY 9-27 WIDENING		PANELBOARD SHCEDULES AND TRANSFORMER WIRING DIAGRAMS	
35 35 of 75 sheets			

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MARKING QUANTITIES			
DESCRIPTION	UNIT AREA	QUANTITY REQUIRED	TOTAL AREA (S.F.)
RUNWAY 9-27 AIMING POINT STRIPE (STRIATED, TYPICAL)	1,585.0	4	6,340
RUNWAY 9-27 THRESHOLD STRIPE (STRIATED, TYPICAL)	452.5	16	7,240
RUNWAY 9-27 EDGE STRIPE (SOLID)	15,207	2	30,414
NUMERAL 2 (STRIATED)	361	1	361
NUMERAL 7 (STRIATED)	258	1	258
NUMERAL 9 (STRIATED)	337	1	337
TOTAL WHITE:			44,950
TAXIWAY LEAD-IN STRIPE (1' WIDE)	41		41
TOTAL YELLOW:			41
TOTAL MARKING:			44,991



MARKING REMOVAL QUANTITIES			
DESCRIPTION	UNIT AREA	QUANTITY REQUIRED	TOTAL AREA (S.F.)
RUNWAY 9-27 AIMING POINT STRIPE (STRIATED, TYPICAL)	1,200	4	4,800
RUNWAY 9-27 EDGE STRIPE	5,069	2	10,138
TOTAL WHITE:			14,938

**620-PAVEMENT MARKING-WATERBORNE NOTES**

THE PAVEMENT MARKING-WATERBORNE (620) SHALL BE PLACED IN ACCORDANCE WITH ITEM 620 "PAVEMENT MARKING" AS STATED ON PAGE 77 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM SHALL CONSIST OF RUNWAY AND HOLDING LINE MARKING IN ACCORDANCE WITH THESE SPECIFICATIONS AND AT THE LOCATIONS SHOWN ON THE CONSTRUCTION PLANS. ALL RUNWAY MARKING WILL BE WHITE IN COLOR AND THE TAXIWAY MARKING WILL BE YELLOW IN COLOR. THE PROPOSED PAVEMENT MARKING WILL BE APPLIED IN TWO APPLICATIONS.

ANY MATERIAL DELIVERED THAT FAILS TO MEET THE SPECIFICATIONS SHALL BE DISPOSED OF BY THE VENDOR AND IMMEDIATELY REPLACED WITH ACCEPTABLE MATERIAL ENTIRELY AT THE VENDOR'S EXPENSE, INCLUDING HANDLING AND TRANSPORTATION CHARGES.

ALL PROPOSED MARKING WILL BE COMPLETED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION PLANS.

GLASS BEADS SHALL BE REQUIRED ONLY ON THE SECOND APPLICATION.

CUT-OFF SHEETS WILL BE REQUIRED TO INSURE STRAIGHT EDGES.

THE QUANTITY PROVIDED IS BASED ON THE ACTUAL AREA OF MARKING TO BE APPLIED.

THE PROPOSED MARKING WILL BE PAID FOR UNDER ITEM:  
AR620520 PAVEMENT MARKING-WATERBORNE 38,605 S.F.

**MARKING NOTES**

ALL RUNWAY MARKING WILL BE STRIATED AND WHITE IN COLOR. ALL STRIATIONS WILL BE 6 INCHES IN WIDTH, SPACED 6 INCHES FROM EDGE TO EDGE, AS SHOWN IN THE STRIATED MARKING DETAIL ON THIS SHEET.

THE TAXIWAY CENTERLINE STRIPE WILL BE SOLID AND YELLOW IN COLOR.

ALL PROPOSED MARKING WILL BE LOCATED AS SHOWN ON THE PROPOSED MARKING PLANS.

ALL PROPOSED WHITE AND YELLOW MARKING WILL BE APPLIED WITH A REFLECTIVE MEDIA IN ACCORDANCE WITH THE SPECIFICATIONS.

CUT-OFF SHEETS WILL BE REQUIRED TO INSURE STRAIGHT EDGES.

**620900-PAVEMENT MARKING REMOVAL NOTES**

THE EXISTING PAVEMENT MARKING SHALL BE REMOVED IN ACCORDANCE WITH ITEM 620 "PAVEMENT MARKING" AS STATED ON PAGE 77 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THE AREAS THAT ARE DESIGNATED FOR REMOVAL ARE SHOWN ON THE CONSTRUCTION PLANS.

ALL AREAS TO BE REMOVED ARE CALCULATED AREAS. ANY ADDITIONAL AREAS, DUE TO OVER SPRAY, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

RUNWAY AIMING POINTS TO BE REMOVED START AT 1,020 FEET FROM EXISTING RUNWAY END 9 & RUNWAY END 27.

THE PROPOSED MARKING REMOVAL WILL BE PAID FOR UNDER ITEM:  
AR620900 PAVEMENT MARKING REMOVAL 14,938 S.F.

STRIATED AIMING POINT MARKING CONFIGURATION		
RUNWAY WIDTH (FEET)	A (FEET)	B (FEET)
60	12.5	27.8
75	15.5	35
100	20.5	47
150 OR GREATER	30.5	71

THRESHOLD MARKING CONFIGURATION	
RUNWAY WIDTH	NUMBER OF STRIPES
60 FEET	4
75 FEET	6
100 FEET	8
150 FEET	12
200 FEET	16

DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

IL. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

LAYOUT	CCC	01/13/04
DRAWN	CCC	01/13/04
REVIEWED	CAH	03/05/04

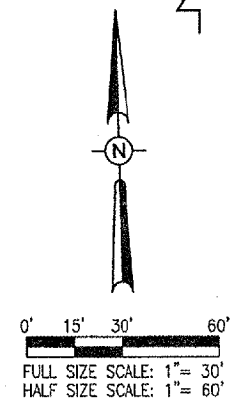
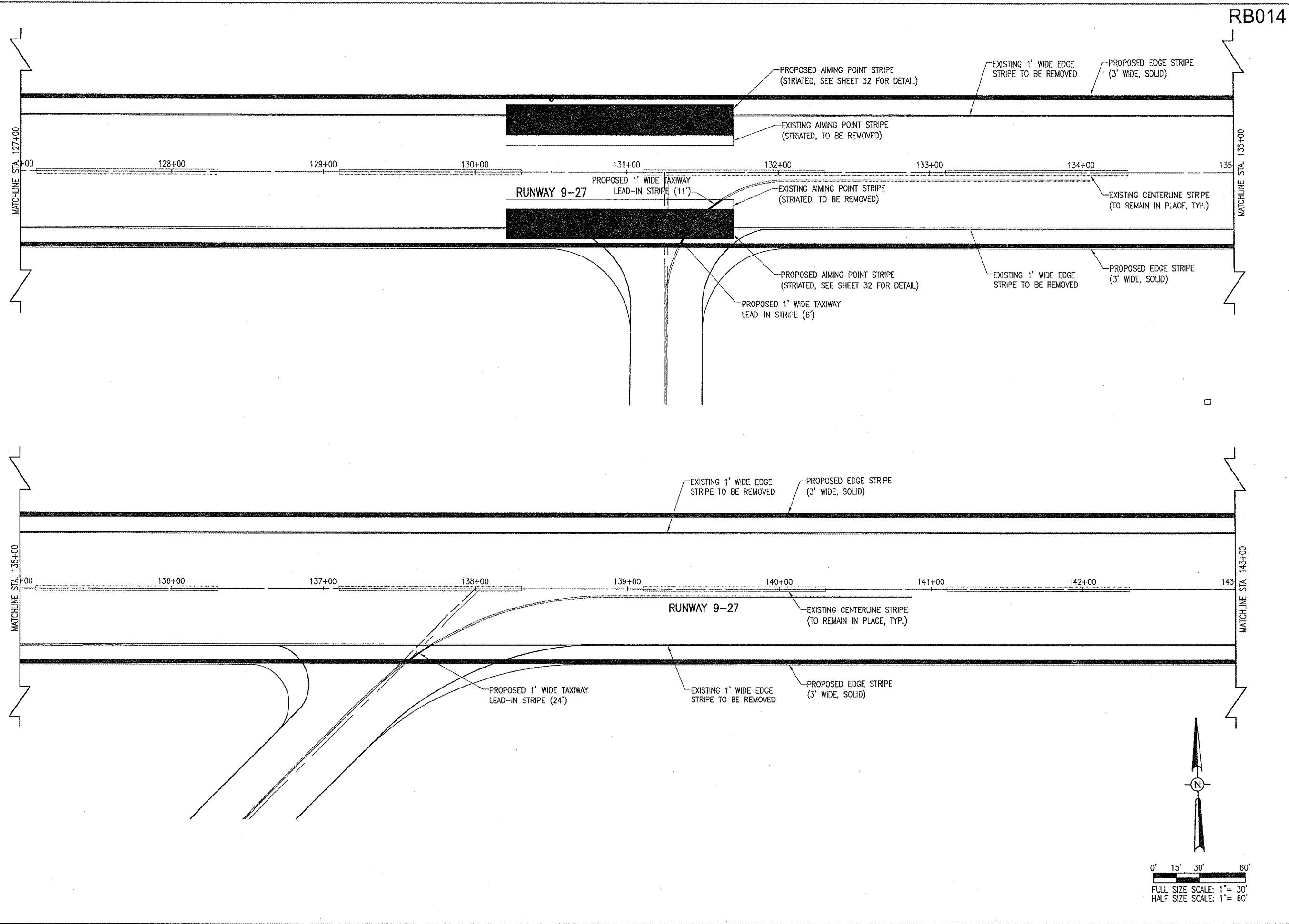
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Filename: R-151MRK.DWG  
Scale: 1" = 30'  
Date: 01/13/04

Hanson Professional Services Inc.  
1525 South Sixth Street  
Springfield, Illinois 62703-2888  
Offices Nationwide

RUNWAY 9-27  
WIDENING  
PROPOSED  
MARKING PLAN  
STA. 120+00 TO STA. 127+00

JUN 29, 2005 9:23 AM CAH  
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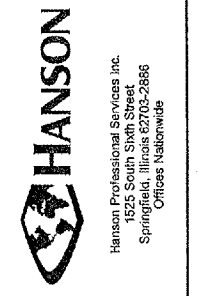


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DATE	REVISION	BY

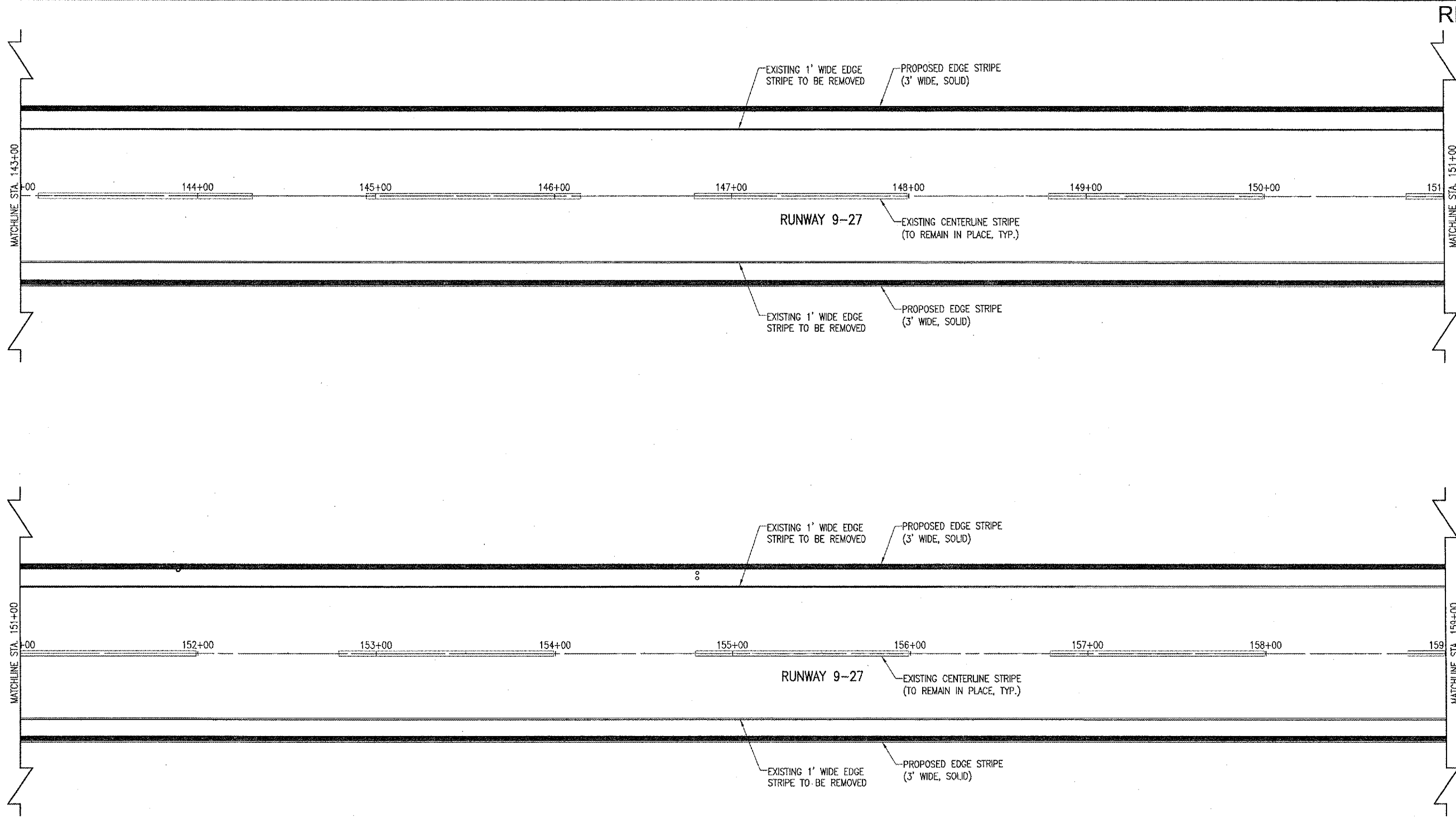
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 IL. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

REV. Project No. 838-DARBY	
Revision R-151MRK.DWG	
Scale: 1"=30'	Date: 01/13/04
LAYOUT	CCC 01/13/04
DRAWN	CCC 01/13/04
REVIEWED	CAH 03/05/04

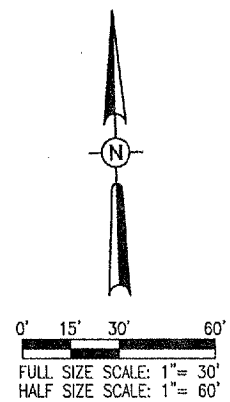


RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 MARKING PLAN  
 STA. 127+00 TO STA. 143+00

JUN 29, 2006 9:30 AM CAH  
 I:\AIRPORTS\ROBINSON\338-04RWY\AIRPORT\SHEETS\R-151MRK.DWG - 143+00 to 159+00



RB014



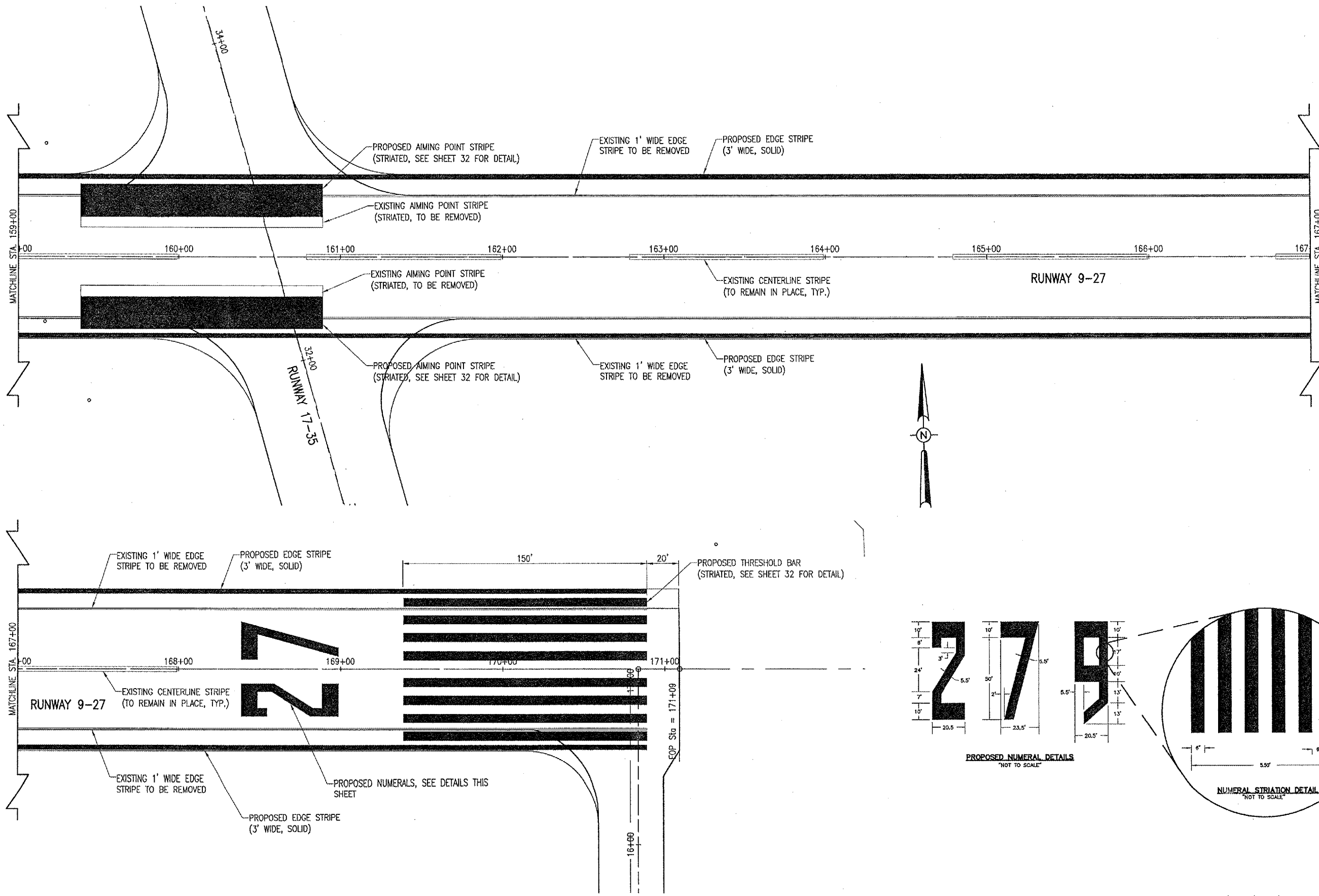
DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 ILL. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-810

ILL. Project No. 838-04RWY	CCC	01/13/04
Filename R-151MRK.DWG	CCC	01/13/04
Scale 1"=30'	CAH	03/05/04
Date 01/13/04		
LAYOUT		
DRAWN		
REVIEWED		

**HANSON**  
 Hanson Professional Services Inc.  
 1625 N. State St.  
 Springfield, Illinois 62702-2886  
 Offices Nationwide

**RUNWAY 9-27  
 WIDENING**  
 PROPOSED  
 MARKING PLAN  
 STA. 143+00 TO STA. 159+00



DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

REL. Project No.	838-04RWY	
Drawn	R-151MRK.DWG	
Scale	1" = 30'	
Date	01/13/04	
LAYOUT	CCC	01/13/04
DRAWN	CCC	01/13/04
REVIEWED	CAH	03/05/04

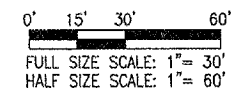
**HANSON**

Hanson Professional Services Inc.  
1625 South Sixth Street  
Springfield, Illinois 62763-2886  
Offices Nationwide

RUNWAY 9-27  
WIDENING

PROPOSED  
MARKING PLAN  
STA. 159+00 TO STA. 171+00

JUN 29, 2006 9:30 AM CAH  
I:\AIRPORTS\ROBINSON\838-04RWY\AIRPORT\SHEETS\R-151MRK.DWG - 159+00 to 171+00



**EROSION CONTROL NOTES:**

ALL PROPOSED EROSION CONTROL MEASURES SHALL BE COMPLETED AS DETAILED ON THIS EROSION CONTROL PLAN AND IN ACCORDANCE WITH THE SPECIFICATIONS.

EROSION CONTROL MEASURES ARE GOVERNED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S STANDARDS AND SPECIFICATIONS FOR SOIL EROSIONS AND SPECIFICATIONS FOR SOIL EROSIONS AND SEDIMENT CONTROL.

STRAW BALES WILL BE USED FOR INLET STRUCTURE PROTECTION AS SHOWN ON THIS SHEET.

ALL STRAW BALES SHALL BE ANCHORED IN PLACE BY EITHER TWO STAKES OR REBARS DRIVEN THROUGH THE STRAW BALE. THE FIRST STAKE IN EACH STRAW BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID STRAW BALES. STAKES SHALL BE DRIVEN FLUSH TO THE TOP OF THE STRAW BALE.

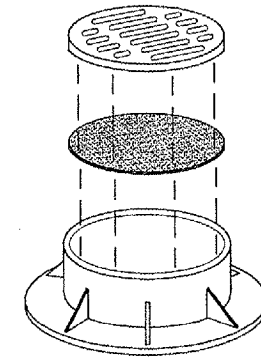
INSPECTION OF THE STRAW BALES SHALL BE FREQUENT AND REPAIR/REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED. STRAW BALES SHALL BE REPLACED EVERY 3 MONTHS AS A MINIMUM, OR WHEN DIRECTED BY THE RESIDENT ENGINEER.

STRAW BALES AND FILTER WRAP SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM WATER DRAINAGE.

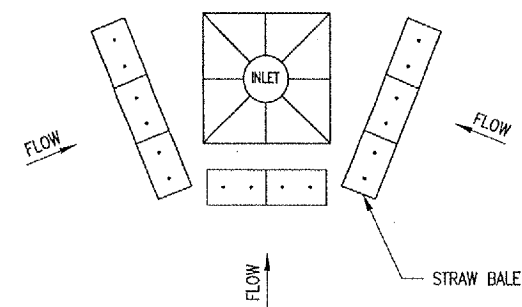
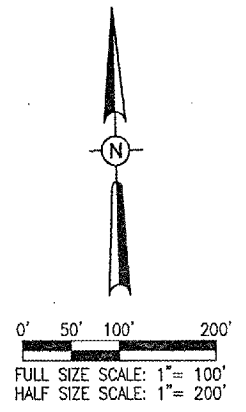
COST OF REMOVAL AND REPLACEMENT SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM AR156512 BALES, RESPECTIVELY.

STRAW BALES, TO INCLUDE ALL INCIDENTALS NECESSARY TO CONSTRUCT THESE ITEMS WILL BE PAID FOR UNDER ITEMS AR156512 BALES.

SUMMARY OF QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR156512	BALES	EACH	52
AR156520	INLET PROTECTION	EACH	13



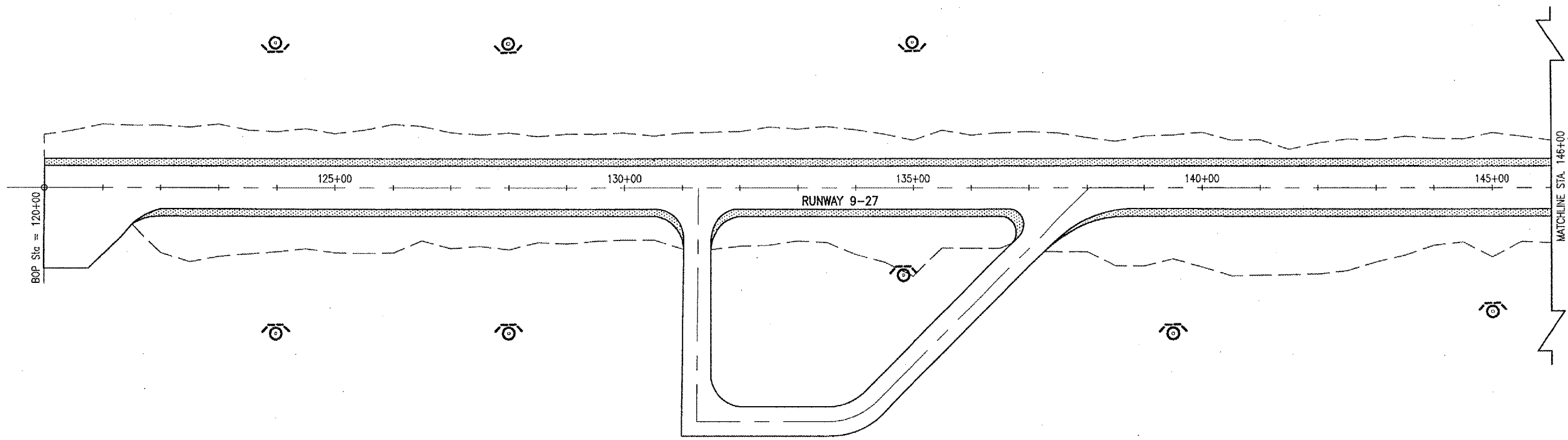
**INLET PROTECTION DETAIL**  
"NOT TO SCALE"



**INLET STRUCTURE PROTECTION**  
"NOT TO SCALE"

**NOTES**

- FILTER WRAP TO BE PLACED IN ALL PROPOSED AND EXISTING INLETS LOCATED IN PAVED AREAS.
- FABRIC SHALL BE IN CONFORMANCE WITH MATERIALS SPECIFIED FOR EROSION CONTROL FENCING.
- FABRIC SHALL OVERLAY FRAME BY 2" MIN.
- THE CONTRACTOR SHALL CLEAR DEBRIS AND SILT AS REQUIRED FROM FABRIC TO MAINTAIN DRAINAGE THROUGH THE STRUCTURE.
- FABRIC SHALL REMAIN IN PLACE UNTIL TURFED AREAS HAVE DEVELOPED A MIN. OF 80% COVERAGE.
- THE COST OF PLACING AND MAINTENANCE OF FILTER WRAP WILL BE INCIDENTAL TO ITEM: AR156512 - "INLET PROTECTION."



**LEGEND**

	EXISTING PAVEMENT
	PROPOSED PAVEMENT WIDENING
	PROPOSED INLET PROTECTION

DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

IL. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

REV.	DATE	BY	REVISION

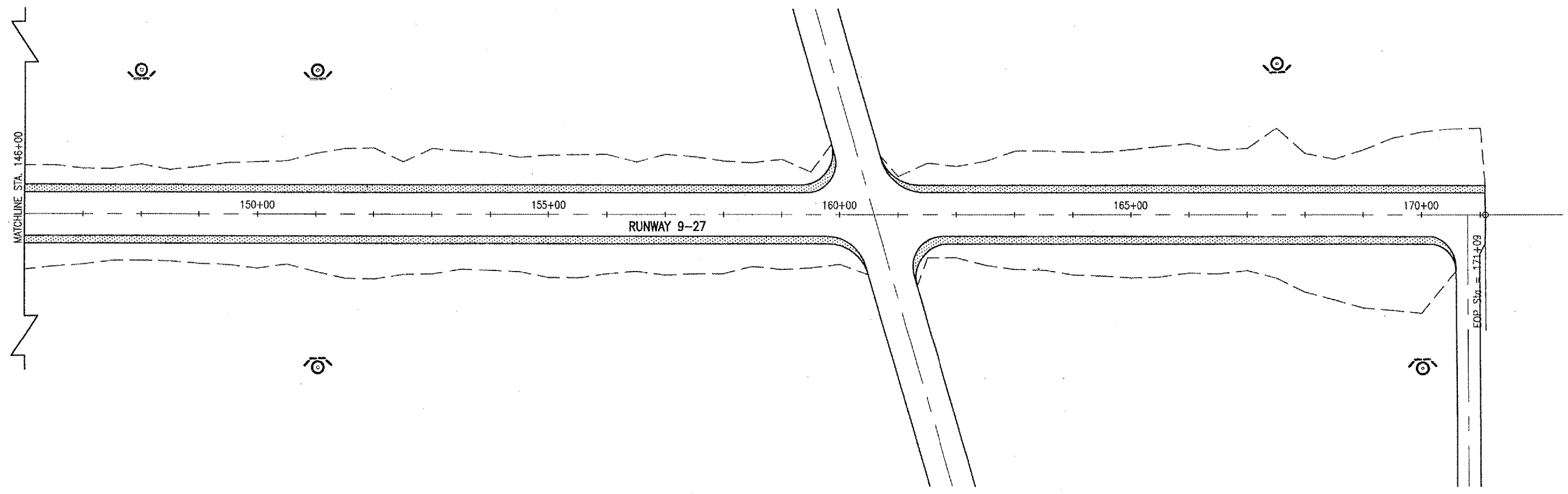
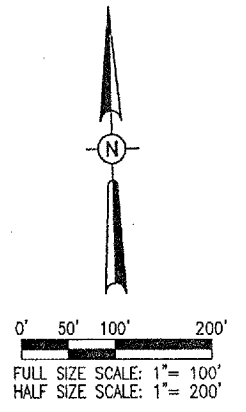
**HANSON**  
Hanson Professional Services Inc.  
1525 South Sixth Street  
Springfield, Illinois 62705-2886  
Chicago Nationwide

**RUNWAY 9-27  
WIDENING**  
PROPOSED STORM WATER  
POLLUTION PREVENTION PLAN  
STA. 120+00 TO STA. 146+00






JUN 29, 2006 9:31 AM CAH  
 I:\AIRPORTS\ROBINSON\838-04RWY\AIRPORT\SHEETS\R-181SNP.DWG - 146+00 to 171+09

RB014



**LEGEND**

	EXISTING PAVEMENT
	PROPOSED PAVEMENT WIDENING
	PROPOSED INLET PROTECTION

DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS

IL. PROJ.: RSV-3480 A.I.P. PROJ.: 3-17-0086-810

HL Project No. 838-04RWY	FILENAME R-181SNP.DWG	SCALE 1"=100'	DATE 01/28/04
LAYOUT	TLW	01/28/04	
DRAWN	TLW	01/28/04	
REVIEWED	CAH	03/05/04	

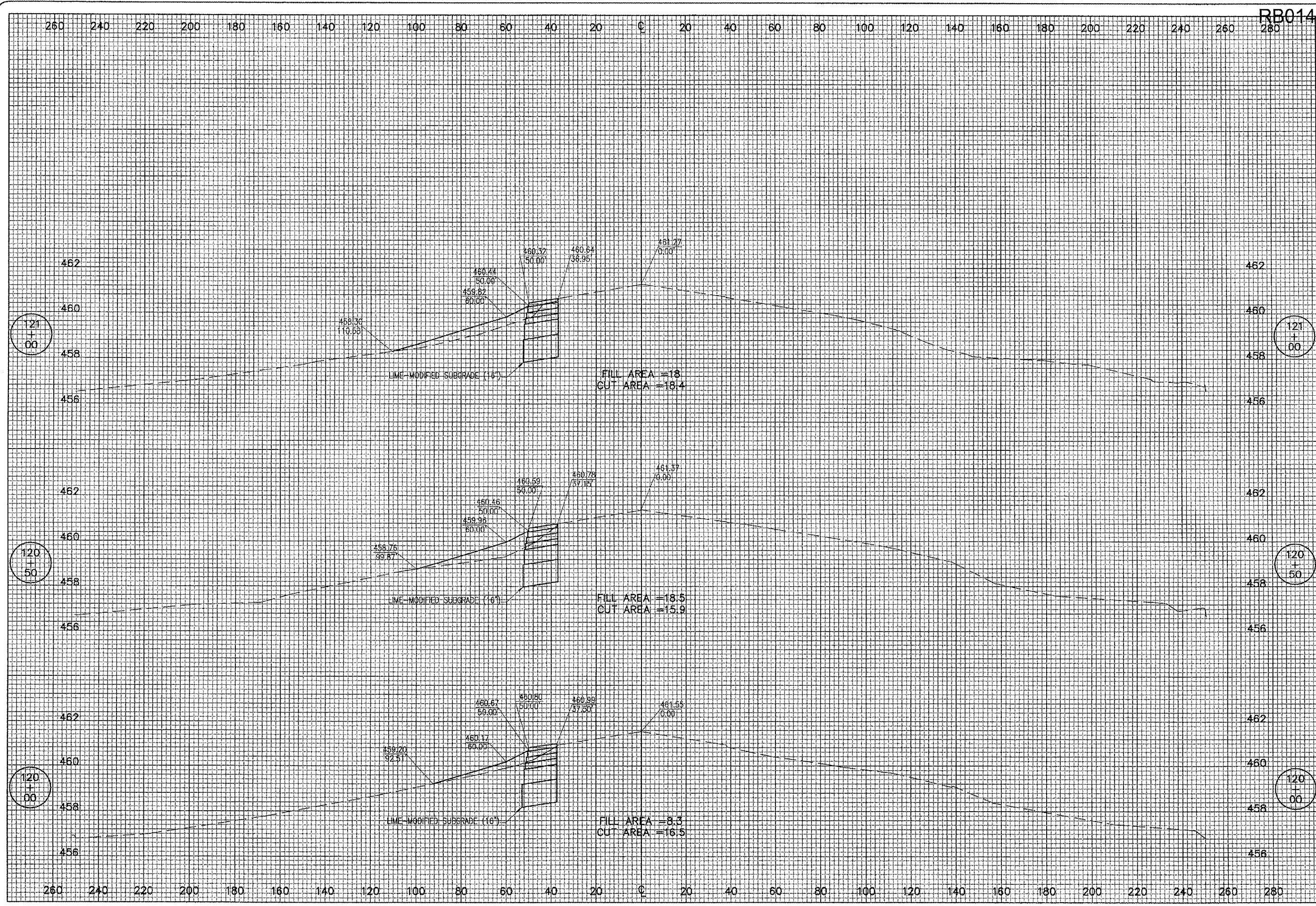


Hanson Professional Services Inc.  
 1525 South State Street  
 Springfield, Illinois 62703-2886  
 Offices Nationwide

**RUNWAY 9-27  
 WIDENING**

PROPOSED STORM WATER  
 POLLUTION PREVENTION PLAN  
 STA. 146+00 TO STA. 171+09

JUN 29, 2006 9:56 AM CAH  
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RB014

DATE	REVISION	BY

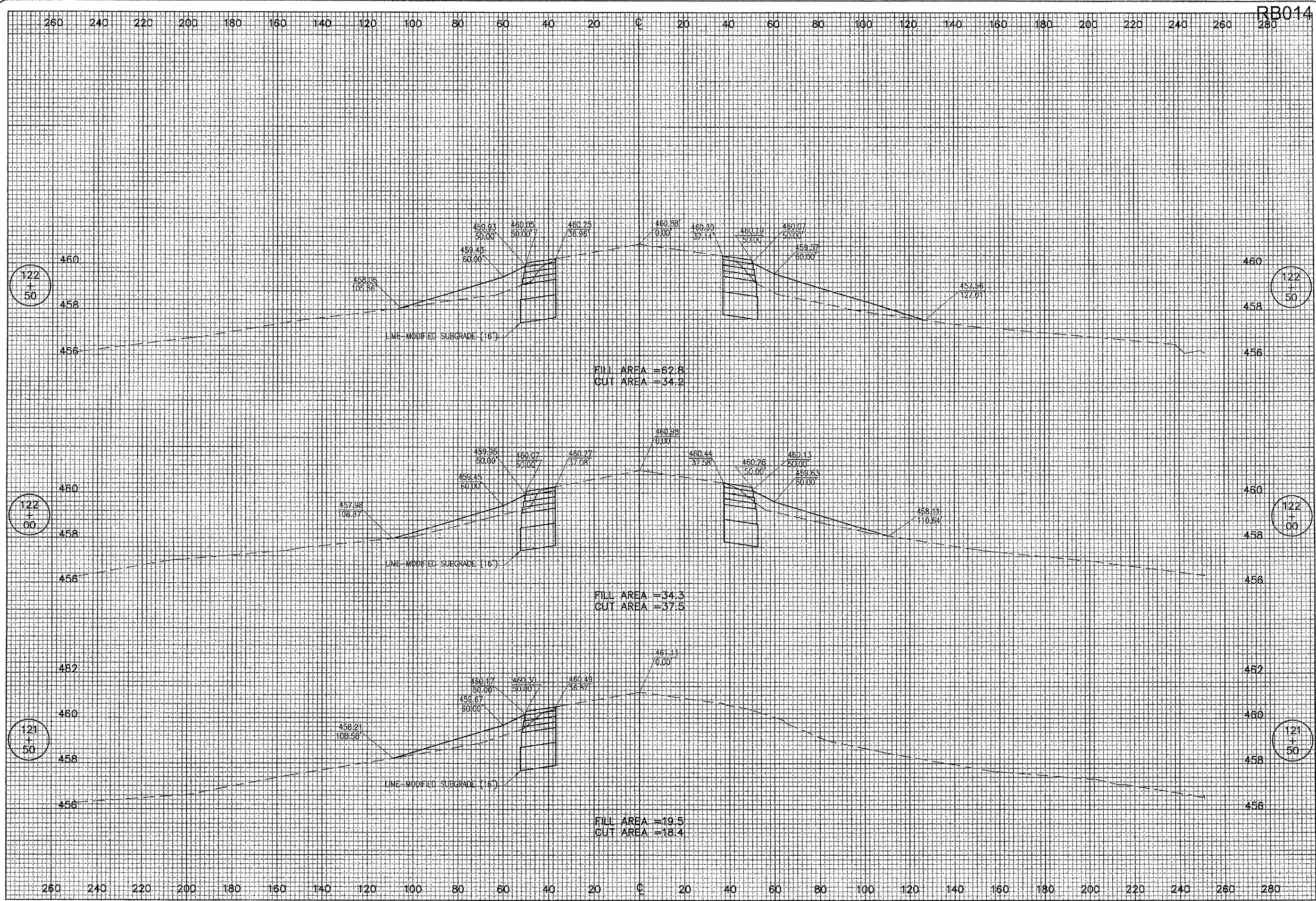
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 I.L. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

Project No. 838-04RWY	
Filename R-301XS.DWG	
Scale 1"=20'H 1"=2'V	
Date 01/13/04	
LAYOUT TLW 01/20/04	
DRAWN TLW 01/20/04	
REVIEWED CAH 03/05/04	



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 120+00 TO STA. 121+00

JUN 29, 2006 9:57 AM CAH  
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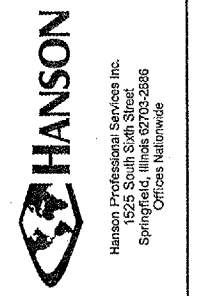


RB014

DATE	REVISION	BY

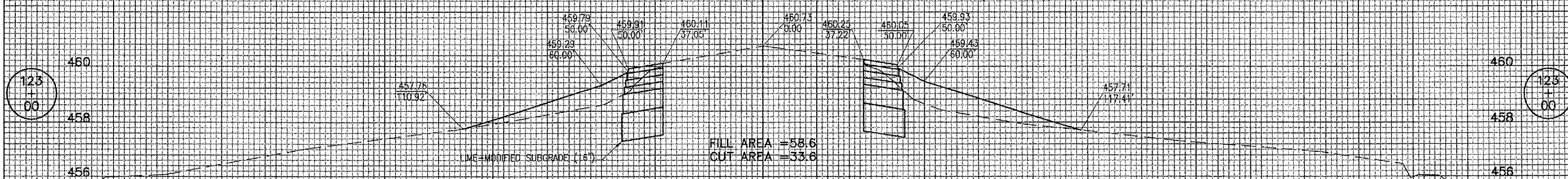
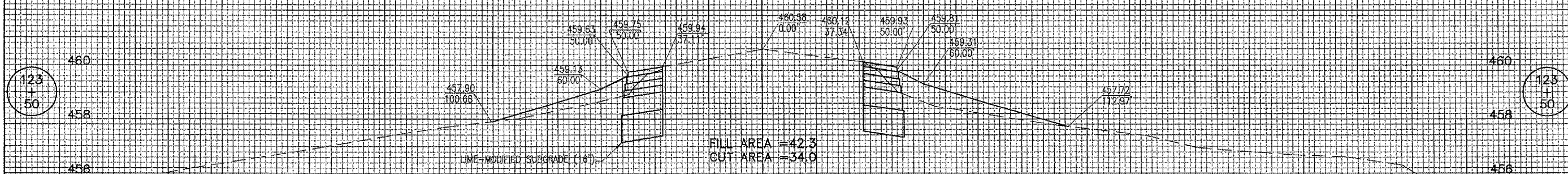
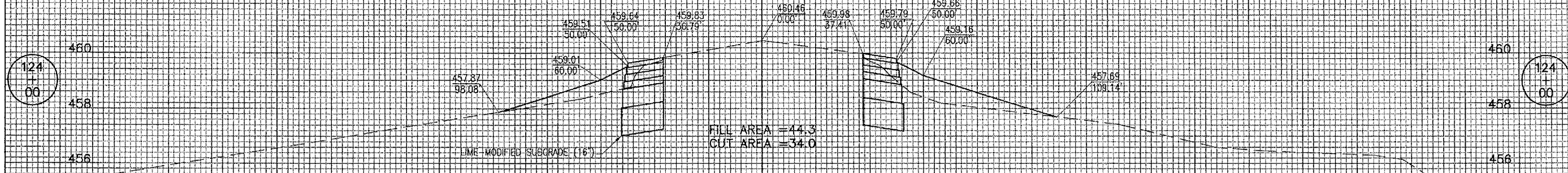
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 ILL. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

Project No. 838-04RWY	TLW	01/20/04
Filename R-302XS.DWG	TLW	01/20/04
Scale 1"=20'H, 1"=2'V	CAH	03/05/04
Date 01/13/04		
LAYOUT		
DRAWN		
REVIEWED		



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 121+50 TO STA. 122+50

260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280



260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

JUN 29, 2006 9:57 AM CAH  
I:\AIRPORTS\ROBINSON\838-CARRY\AIRPORT\SHEETS\R-303XS.DWG - STA. 123+00 TO STA. 124+00

REVISION	DATE	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

IL PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

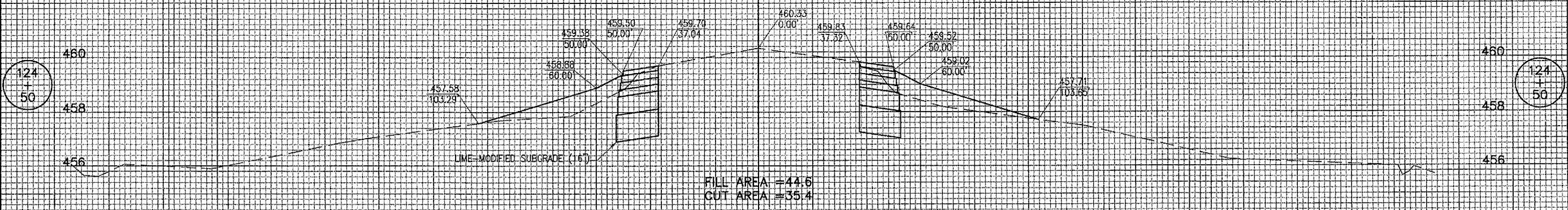
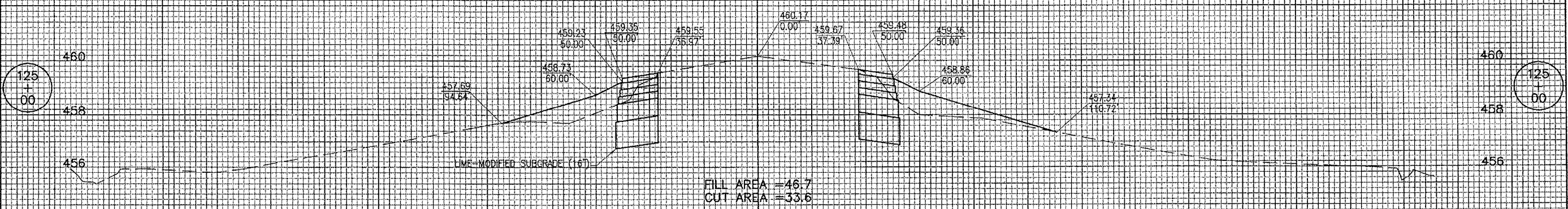
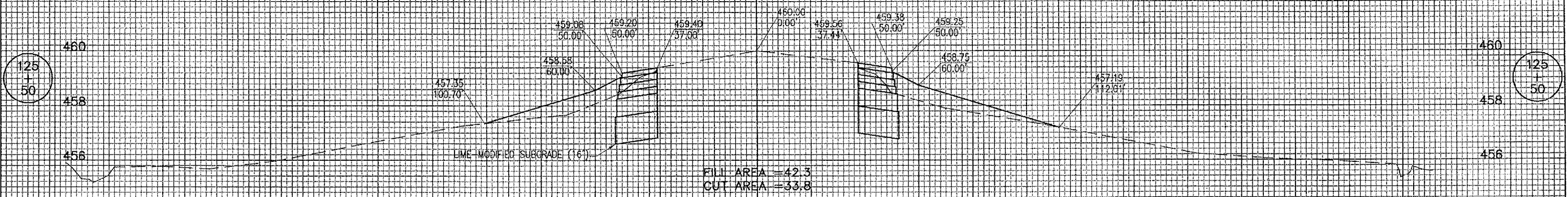
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Offices Nationwide

RUNWAY 9-27  
WIDENING  
PROPOSED  
CROSS-SECTIONS  
STA. 123+00 TO STA. 124+00

260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280



260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

JUN 29, 2006 9:58 AM CAH  
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DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

IL PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

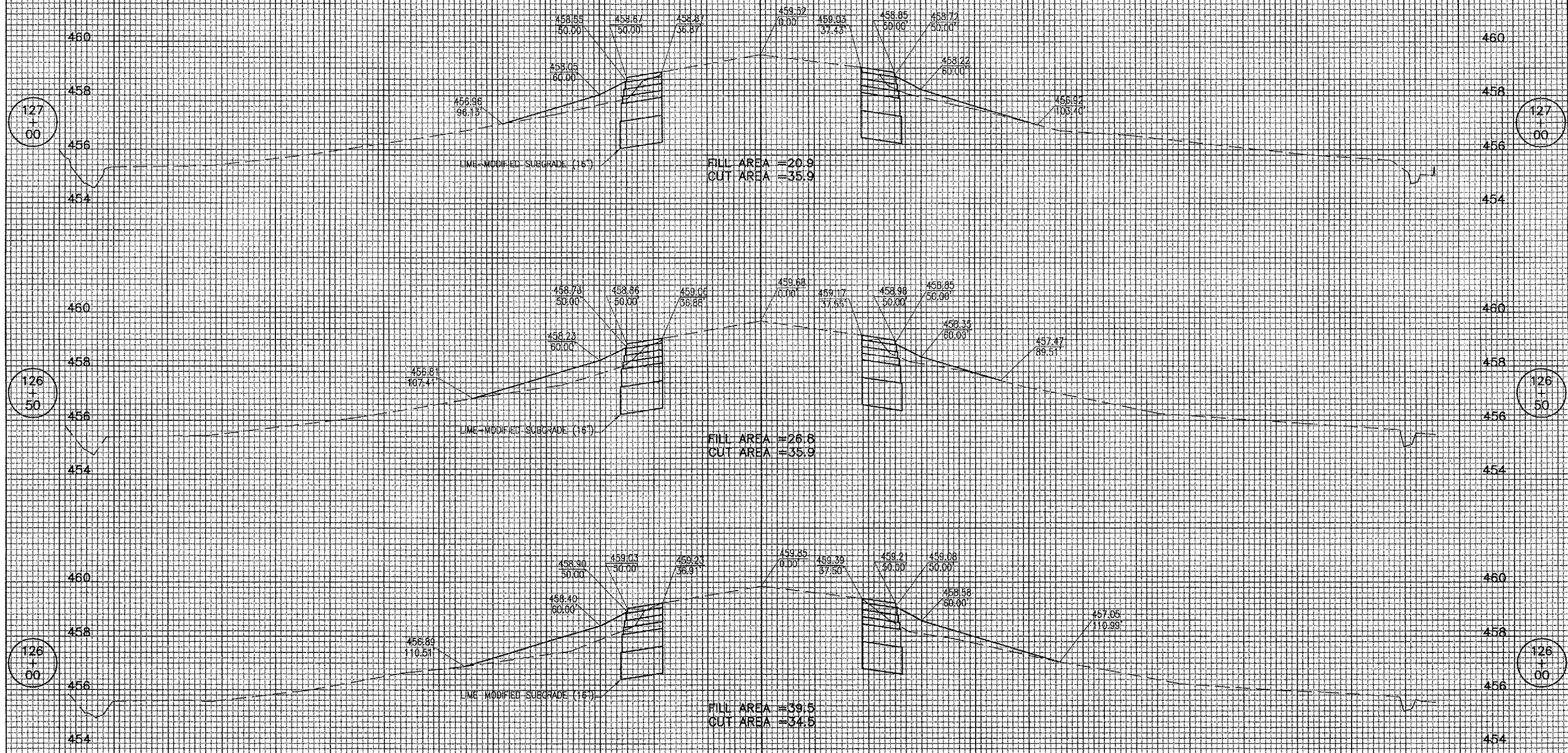
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Drawings R-304XS.DWG	DATE	01/20/04
Scale 1"=20'H, 1"=2'V	DRAWN	CAH
Date 01/13/04	REVIEWED	CAH



RUNWAY 9-27  
WIDENING

PROPOSED  
CROSS-SECTIONS  
STA. 124+50 TO STA. 125+50

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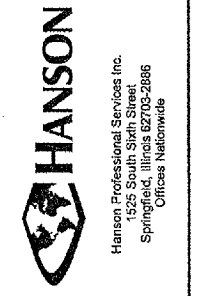
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DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

IL PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

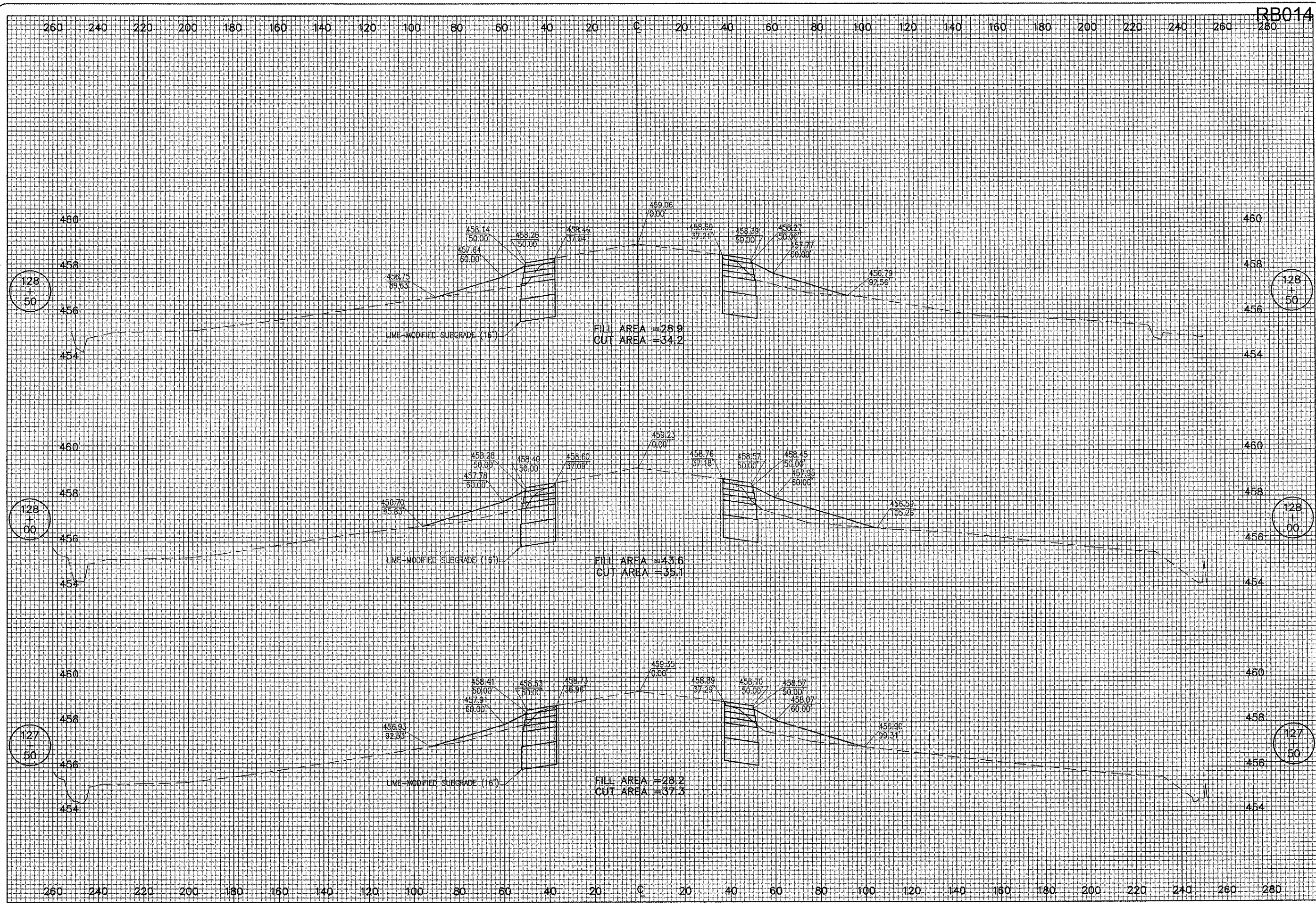
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RUNWAY 9-27  
WIDENING

PROPOSED  
CROSS-SECTIONS  
STA. 126+00 TO STA. 127+00

JUN 29, 2006 9:59 AM CAH  
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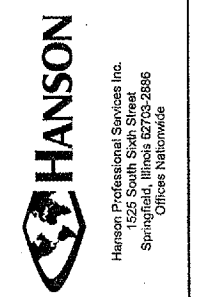


RB014

DATE	REVISION	BY

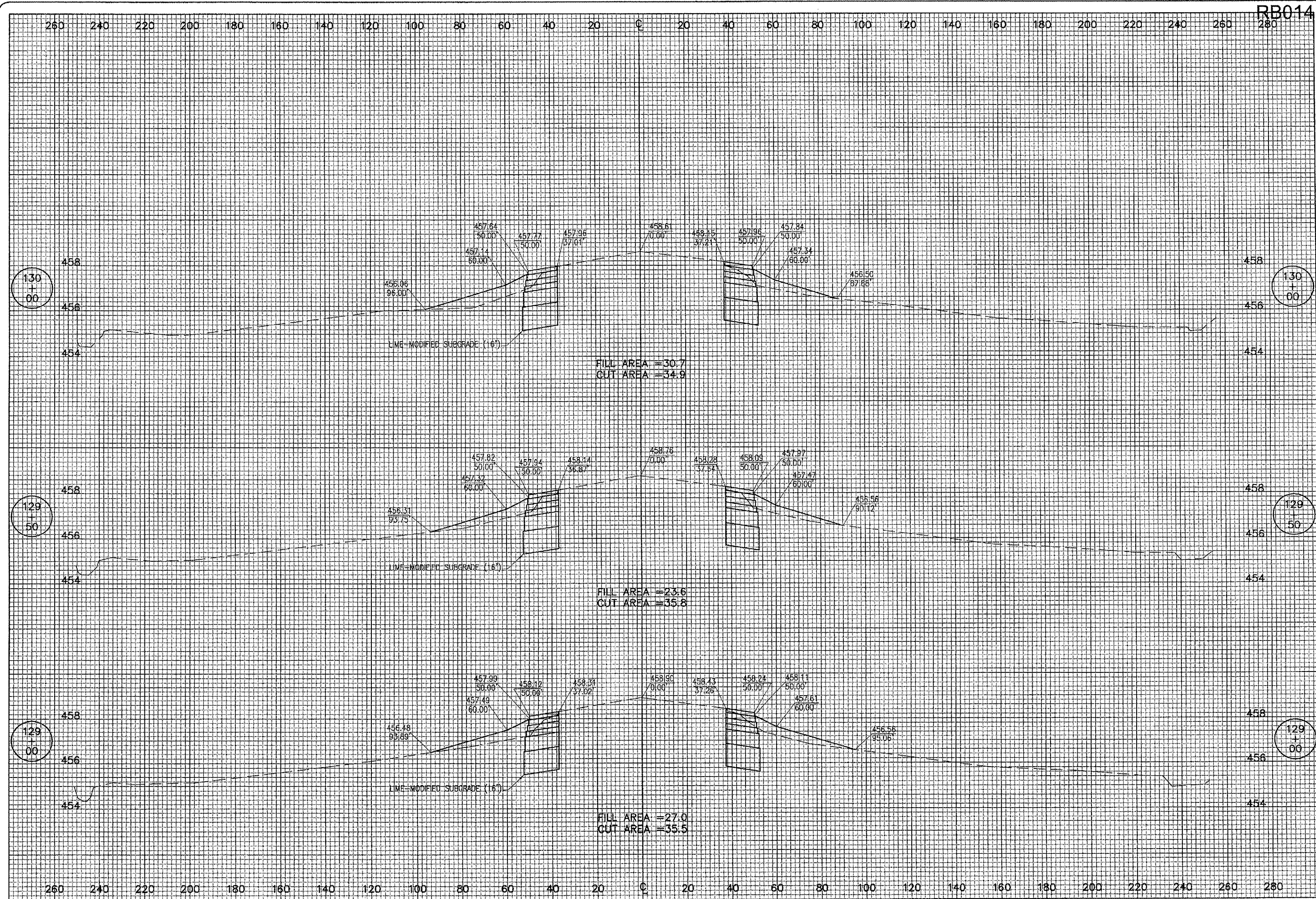
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 I.L. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

FILE PROJECT No. B38-04RWY	DATE 01/13/04
FILENAME R-306XS.DWG	LAYOUT TLW 01/20/04
SCALE 1"=20'H 1"=2'V	DRAWN TLW 01/20/04
DATE 01/13/04	REVIEWED CAH 03/05/04



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 127+50 TO STA. 128+50

JUN 29, 2006 10:00 AM CAH  
 I:\AIRPORTS\ROBINSON\338-04RWY\AIRPORT\SHEETS\R-307XS.DWG -- STA. 129+00 TO STA. 130+00



RB014

DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 I.L. PROJ.: RSV-3490 A.L.P. PROJ.: 3-17-0086-B10

HEI Project No. 838-04RWY	FILENAME R-307XS.DWG	DATE 01/13/04
Scale 1"=20'H 1"=2'V		
LAYOUT TLW 01/20/04	DRAWN TLW 01/20/04	REVIEWED CAH 03/05/04

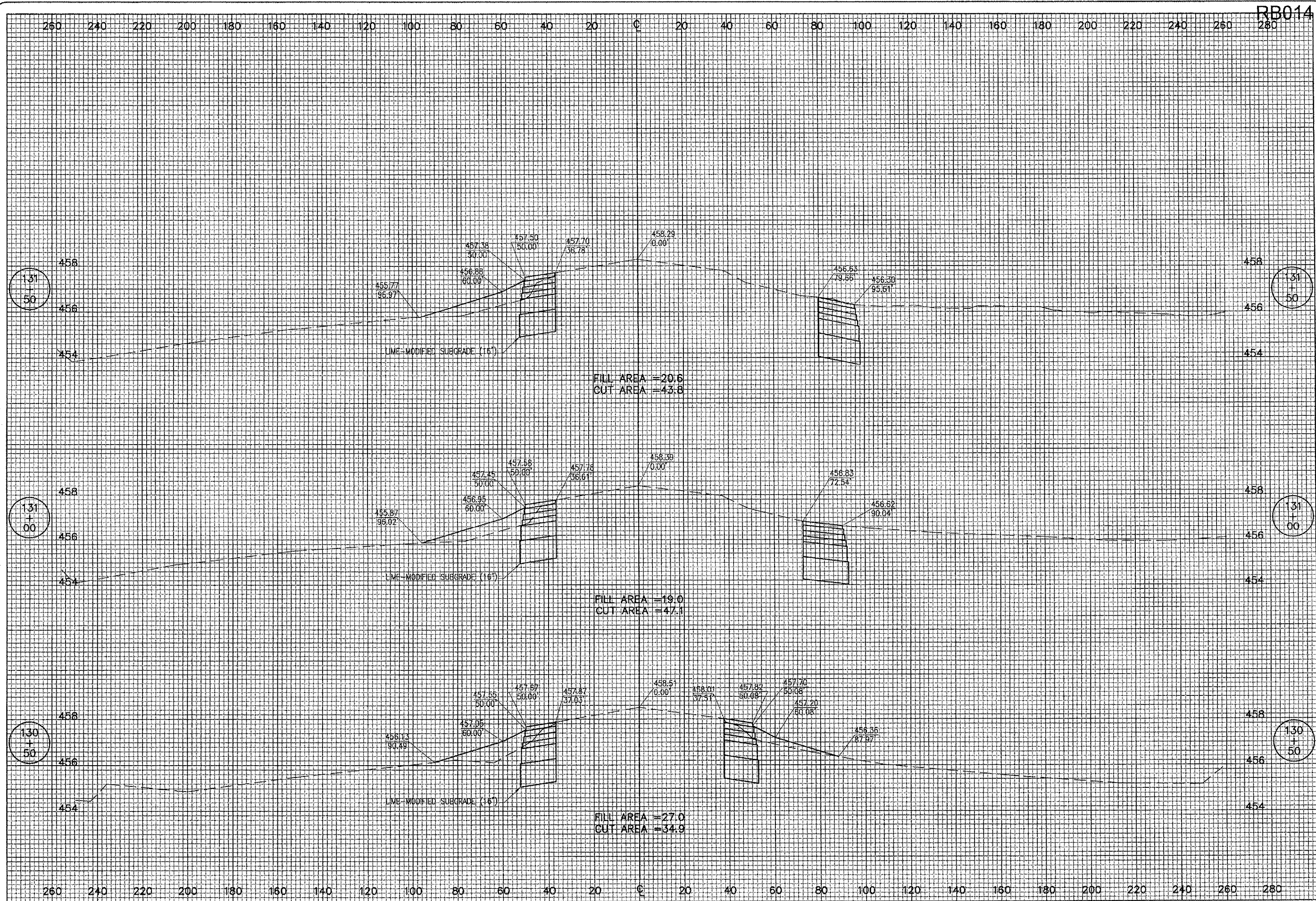


RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 129+00 TO STA. 130+00



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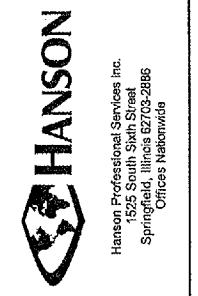
RB014



DATE	REVISION	BY

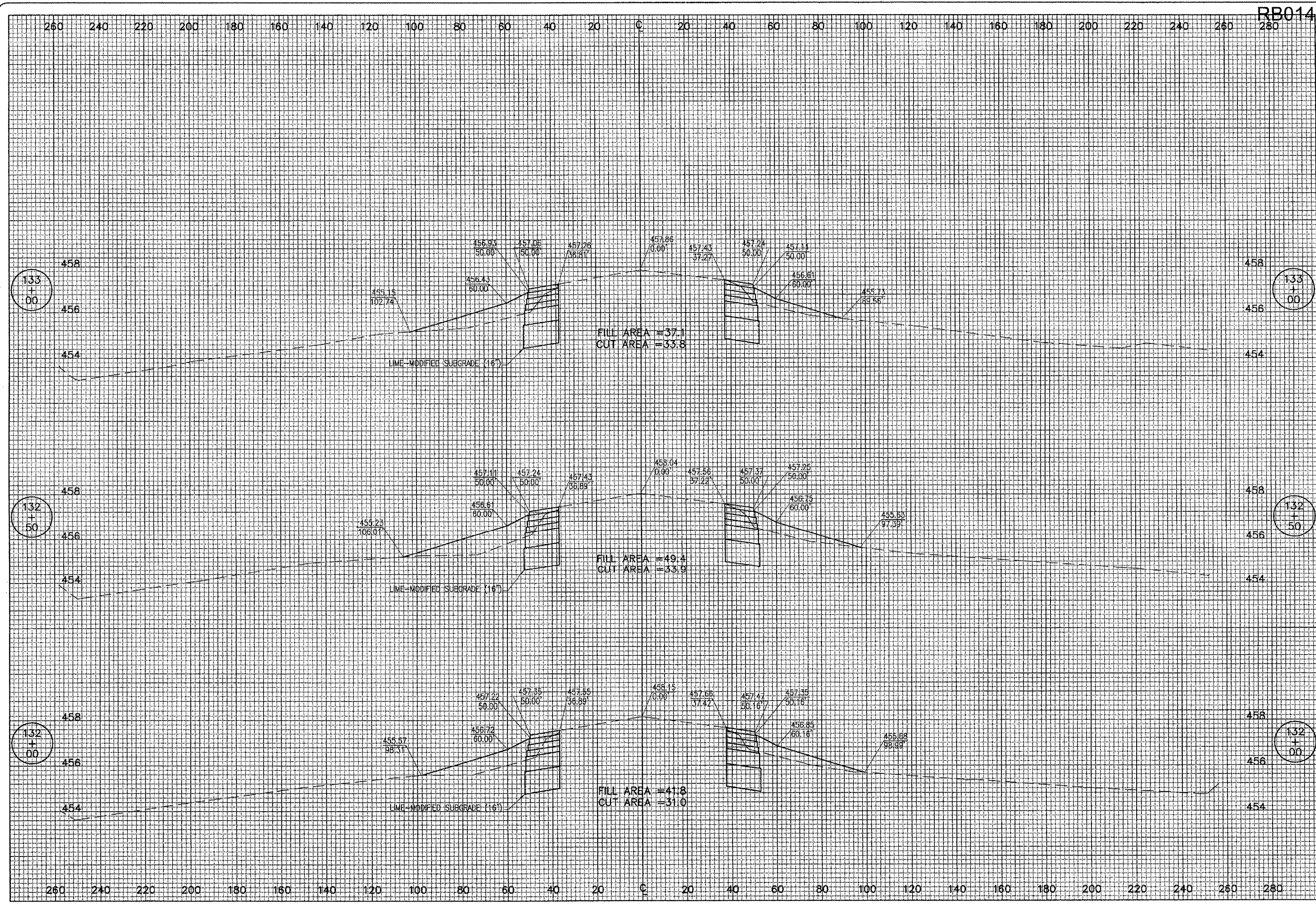
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 IL PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

FILE	DATE	BY
FILE: Project No. 838-04RWY	01/20/04	CAH
FILE: R-308XS.DWG	01/20/04	TLW
Scale: 1"=20'H, 1"=2'V	01/20/04	TLW
Date: 01/13/04	03/05/04	CAH



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 130+50 TO STA. 131+50

JUN 29, 2006 10:02 AM CAH  
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RB014

DATE	REVISION

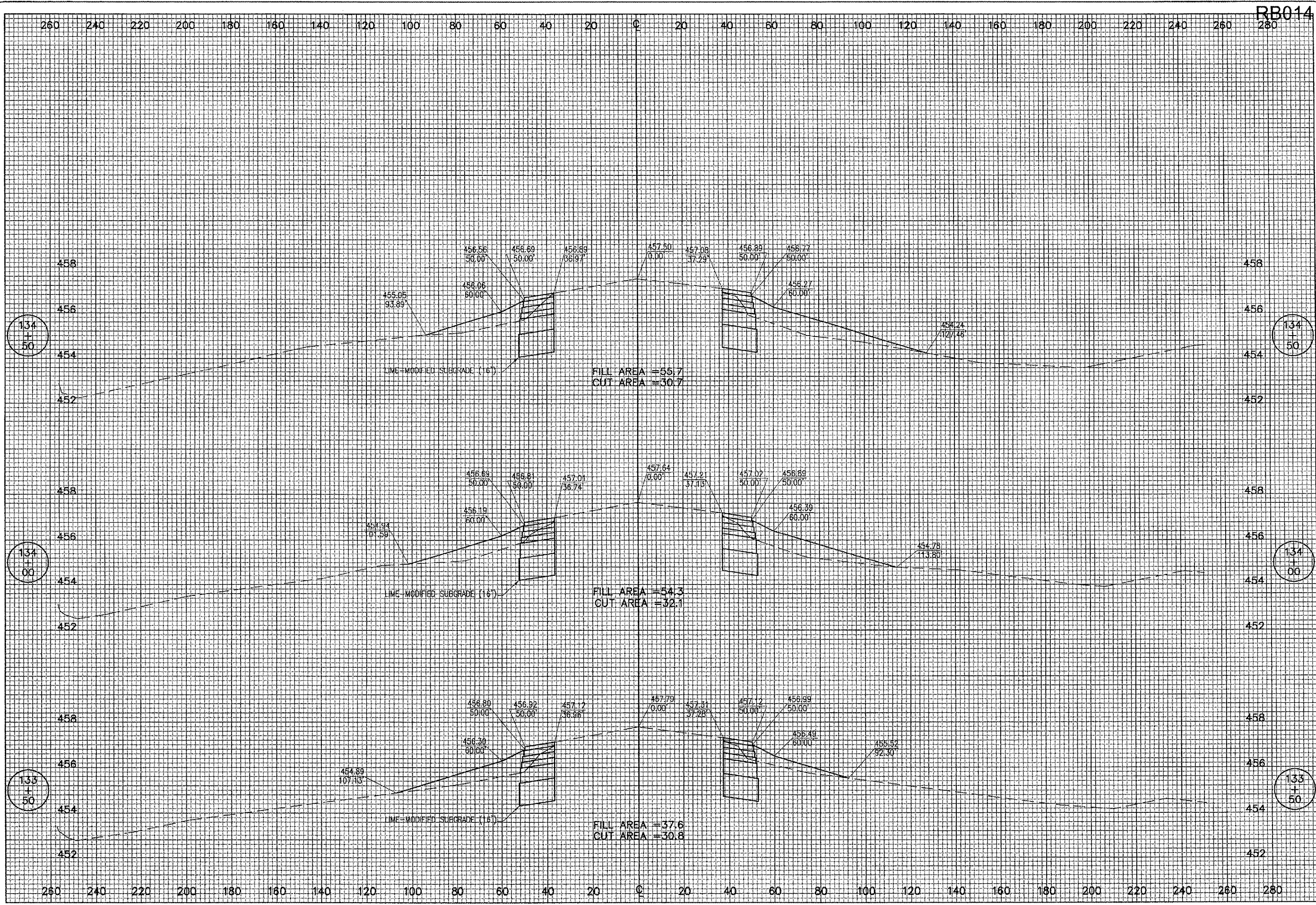
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 I.L. PROJ.: RSY-3480 A.I.P. PROJ.: 3-17-0086-B10

ILL. Project No. 836-04RWY Drawing: R-309XS.DWG Scale: 1"=20'H, 1"=2'V Date: 01/13/04	LAYOUT TLW 01/20/04 DRAWN TLW 01/20/04 REVIEWED CAH 03/05/04
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RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 132+00 TO STA. 133+00

JUN 29, 2006 10:03 AM CAH  
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RB014

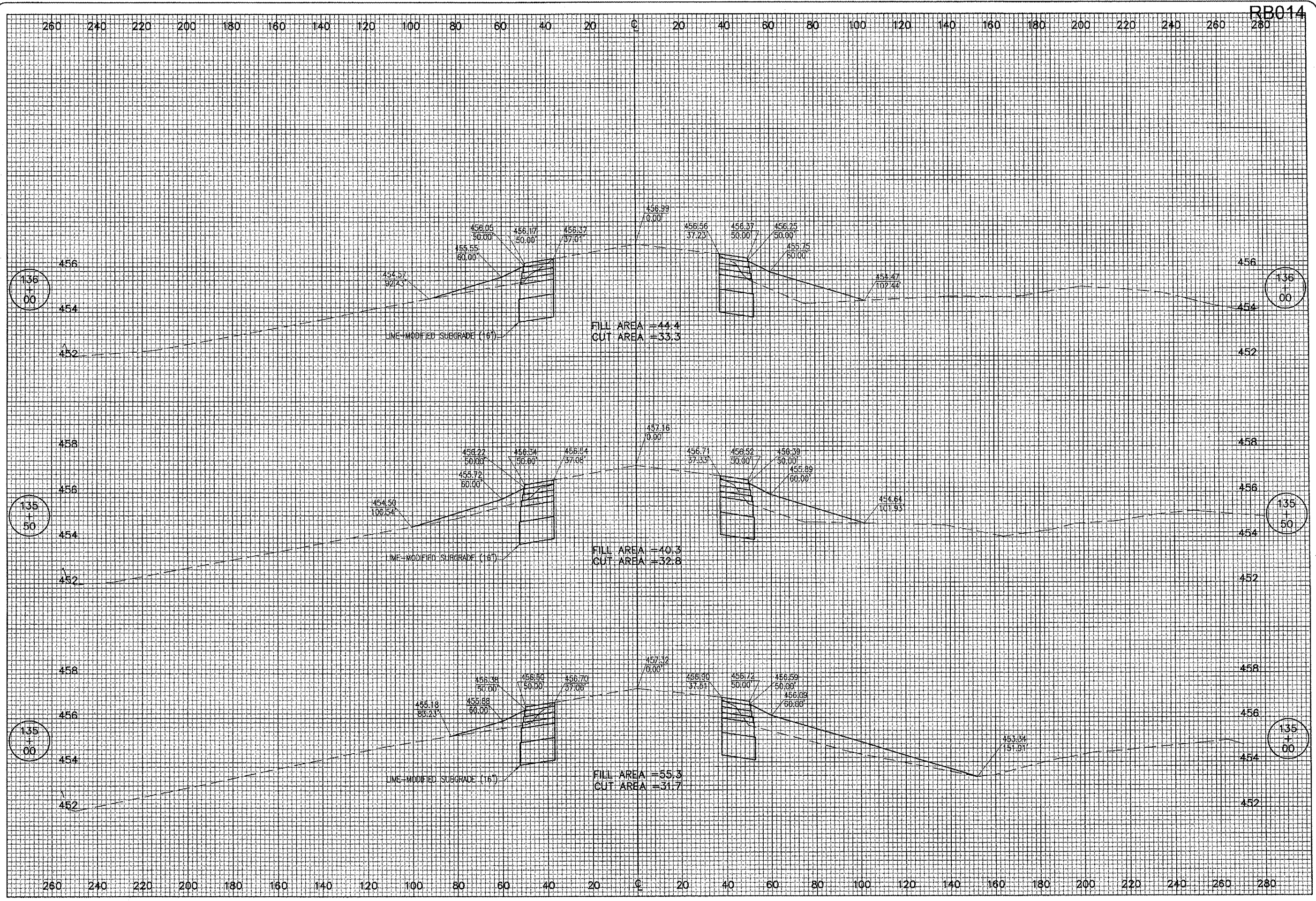
DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 A.I.P. PROJ.: 3-17-0086-B10  
 I.L. PROJ.: RSI-3490

Project No. 838-CARRYWAY	Drawn 01/20/04	Reviewed 03/05/04
Filename R-310XS.DWG	TLW	CAH
Scale 1"=20'H 1"=2'V	TLW	CAH
Date 01/13/04		



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 133+50 TO STA. 134+50



RB014

DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS

IL PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

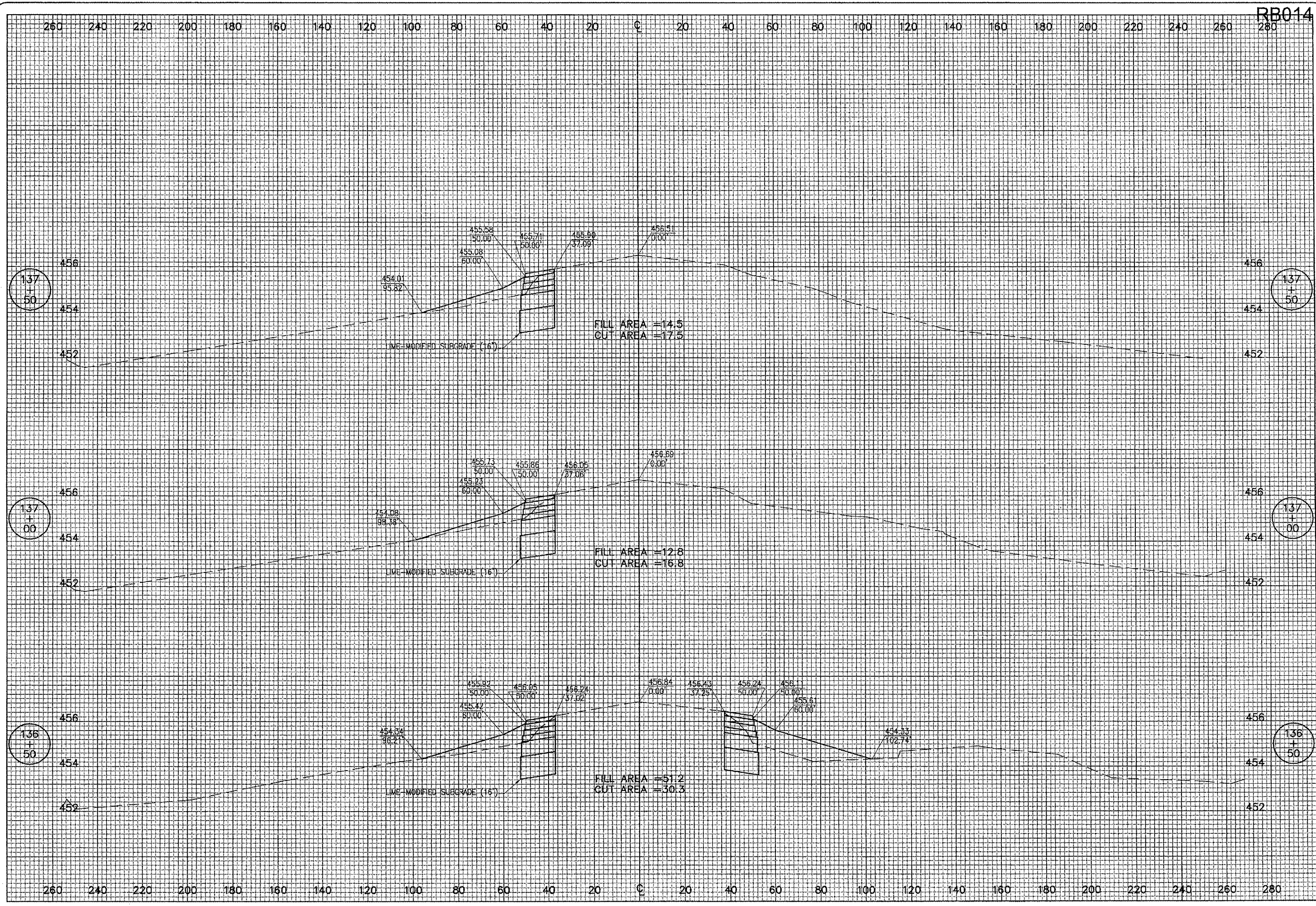
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**HANSON**  
 Hanson Professional Services Inc.  
 1525 South Sixth Street  
 Springfield, Illinois 62703-2896  
 Offices Nationwide

**RUNWAY 9-27  
 WIDENING**

PROPOSED  
 CROSS-SECTIONS  
 STA. 135+00 TO STA. 136+00

JUN 28, 2006 10:07 AM CAH  
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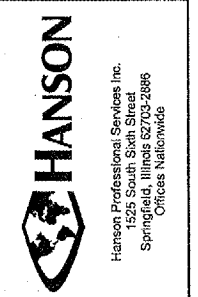


RB014

DATE	REVISION	BY

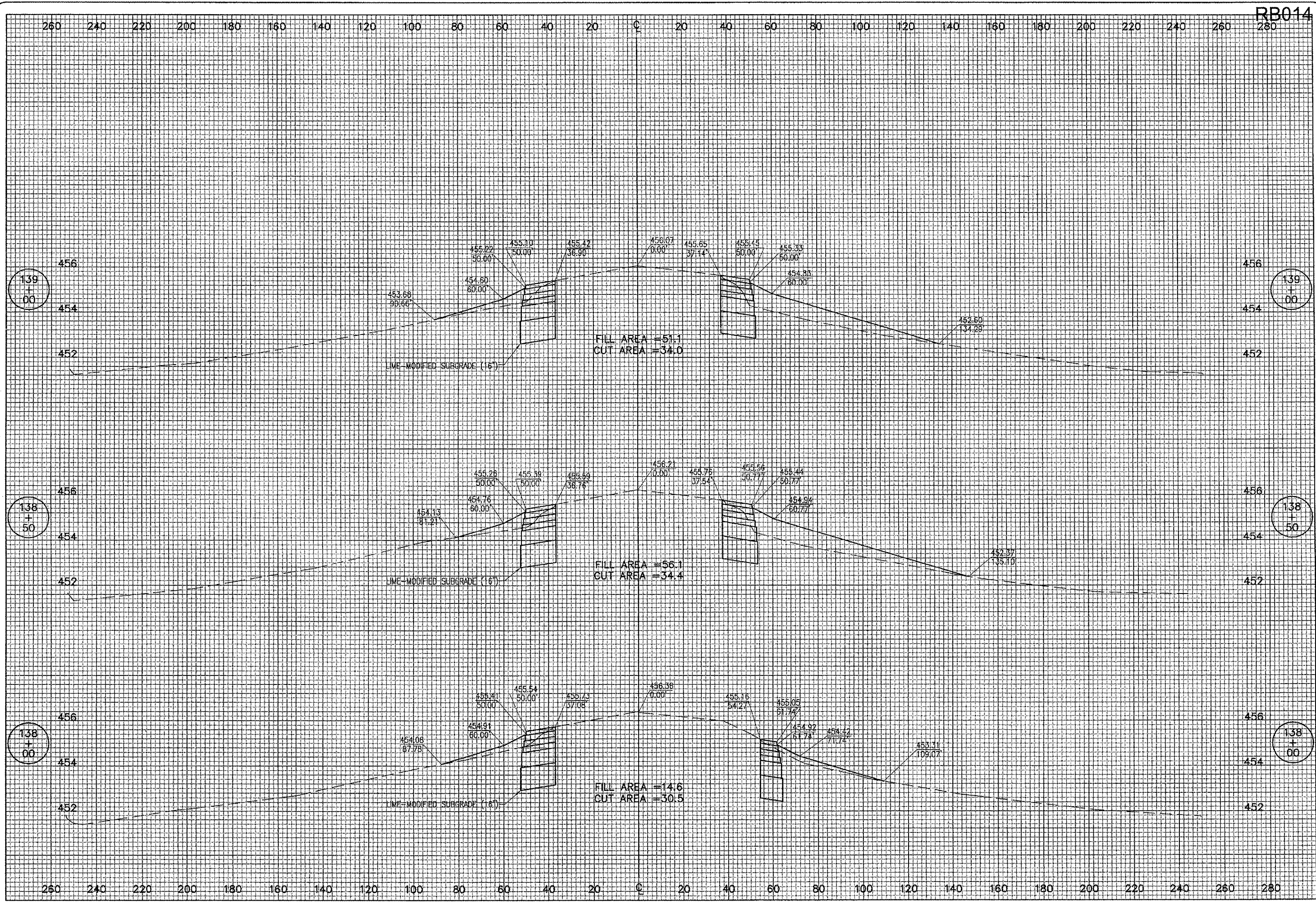
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 IL PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

IE Project No. 838-04RWY	
Plateno: R-312XS.DWG	
Scale: 1"=20'H 1"=2'V	
Date: 01/13/04	
LAYOUT	01/20/04
DRAWN	01/20/04
REVIEWED	03/05/04



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 136+50 TO STA. 137+50

JUN 29, 2006 10:07 AM CAH  
 I:\AIRPORTS\ROBINSON\B38-04RWY\AIRPORT\SHEETS\138-04RWY\AIRPORT\SHEETS\138+00 TO STA. 139+00



RB014

DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS

IL PROJ.: RSV-3490 A.L.P. PROJ.: 3-17-0086-810

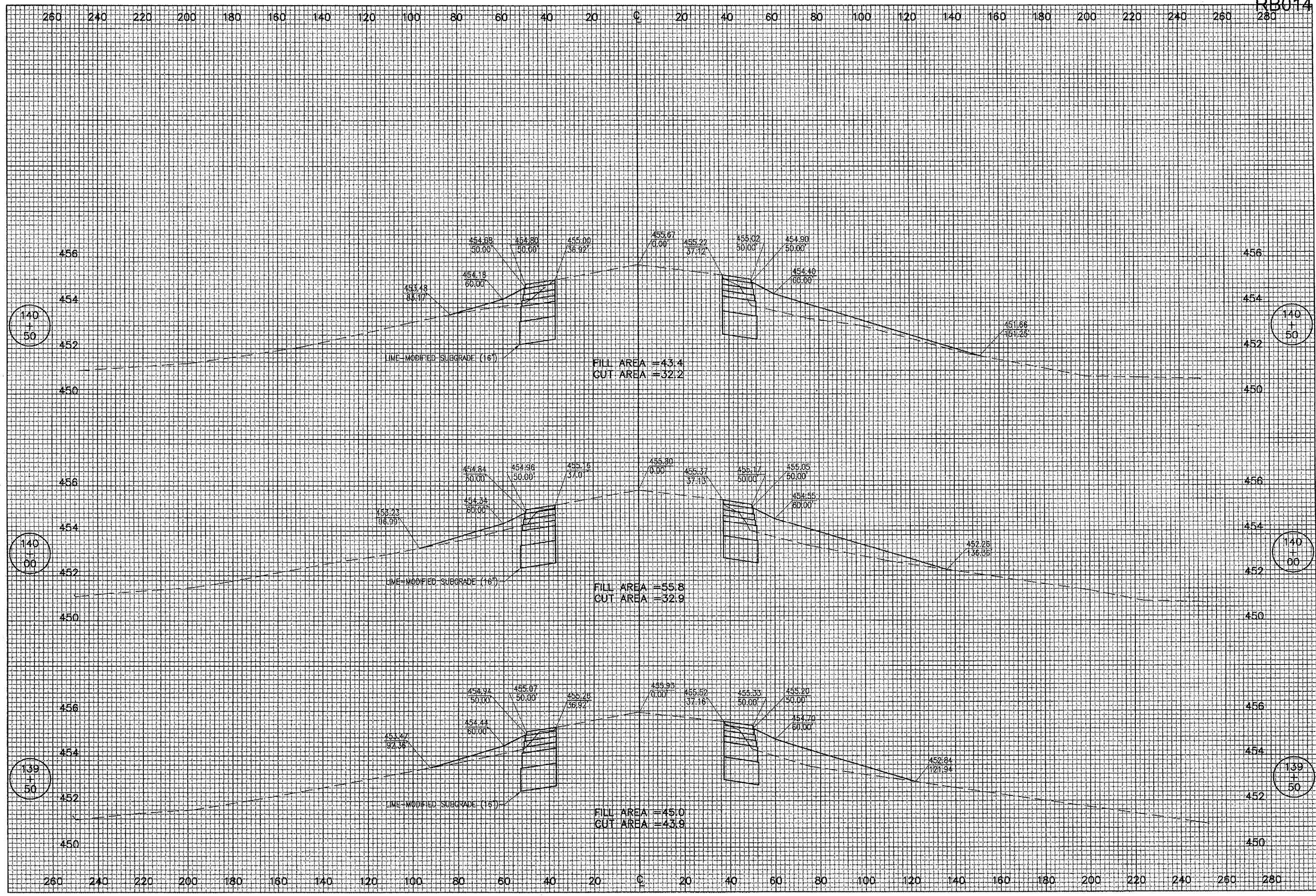
FILE: Project No. 838-04RWY	DATE: 01/13/04
FILE: R-313XS.DWG	LAYOUT: TLW 01/20/04
SCALE: 1"=20'H 1"=2'V	DRAWN: TLW 01/20/04
DATE: 01/13/04	REVIEWED: CAH 03/05/04



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 138+00 TO STA. 139+00

JUN 29, 2005 10:08 AM CAH  
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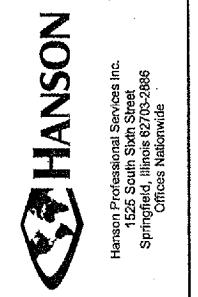
RB014



DATE	REVISION	BY

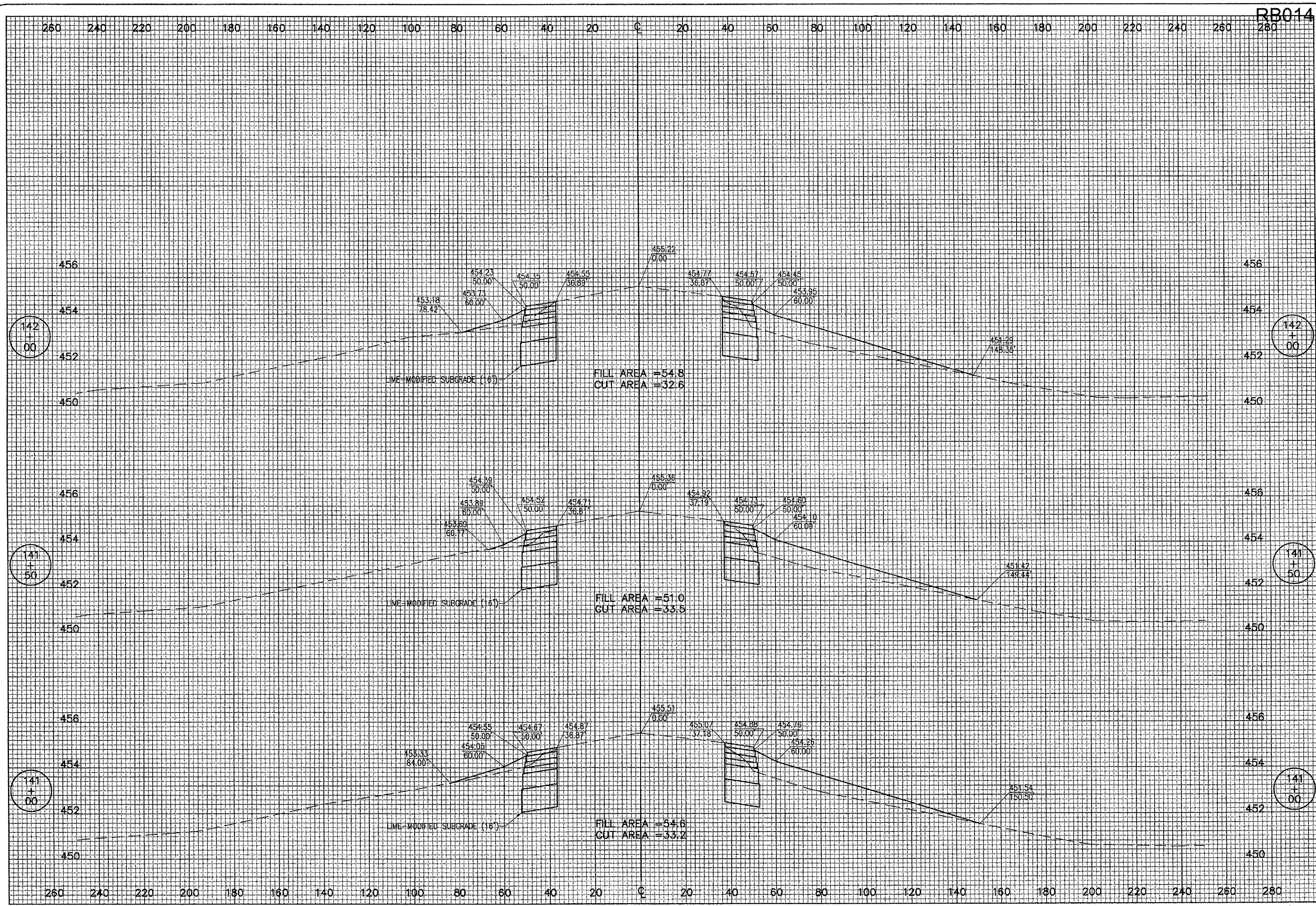
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 IL PROJ.: RSY-3490 A.I.P. PROJ.: 3-17-0086-B10

BB Project No. 838-04RWY	
Flare No. R-314XS.DWG	
Scale 1"=20'H, 1"=2'V	
Date 01/13/04	
LAYOUT	01/20/04
DRAWN	01/20/04
REVIEWED	03/05/04



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 139+50 TO STA. 140+50

JUN 29, 2006 10:08 AM CAH  
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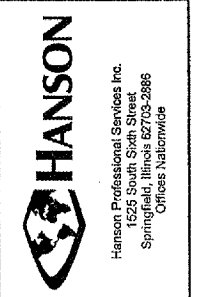


RB014

DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 I.L. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-810

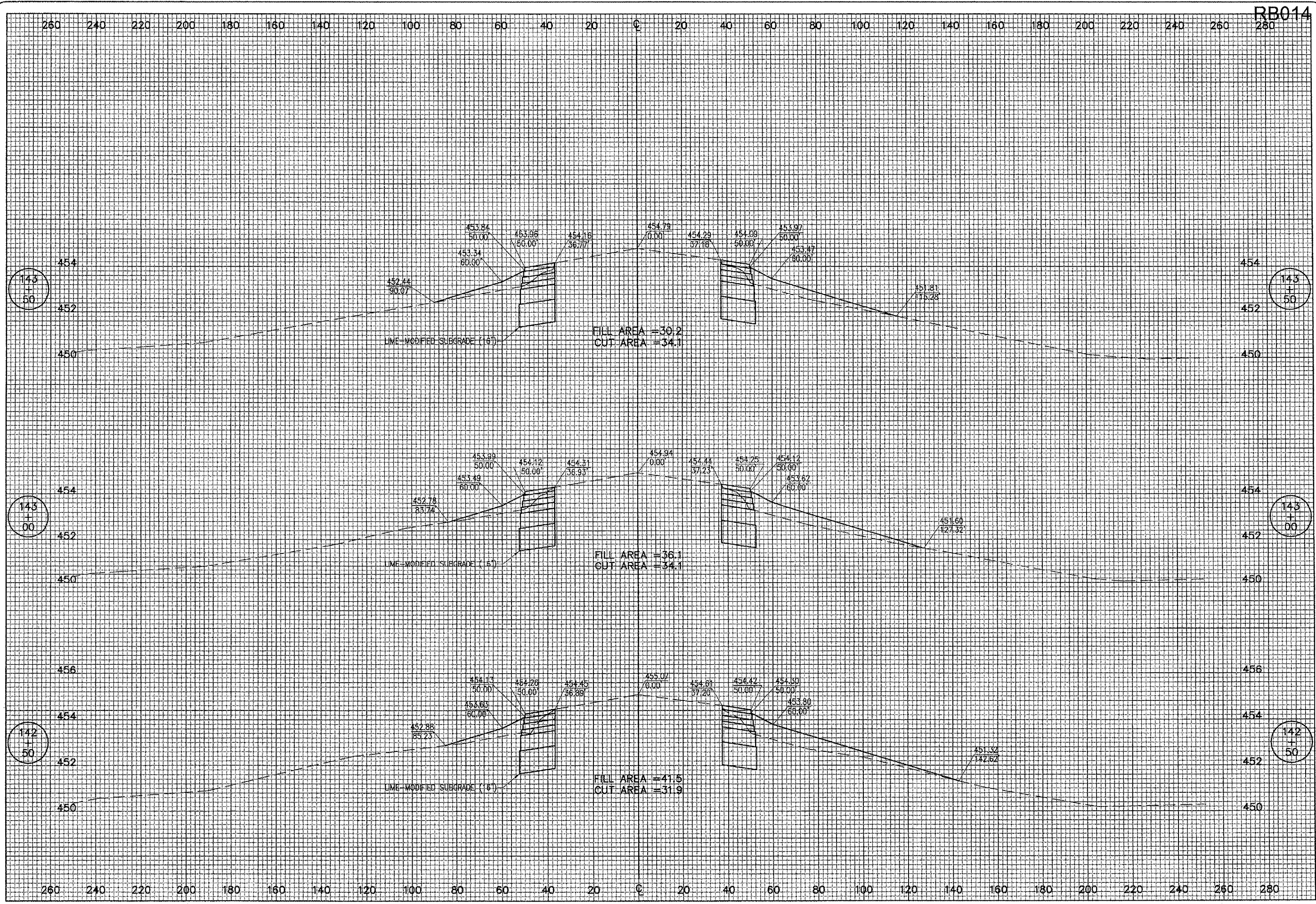
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Drawn R-315XS.DWG	
Scale 1"=20'H 1"=2'V	
Date 01/13/04	
LAYOUT TLW 01/20/04	
DRAWN TLW 01/20/04	
REVIEWED CAH 03/05/04	



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 141+00 TO STA. 142+00



JUN 29, 2006 10:09 AM CAH  
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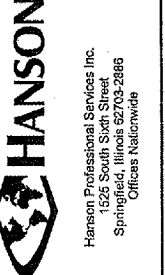
RB014

DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS

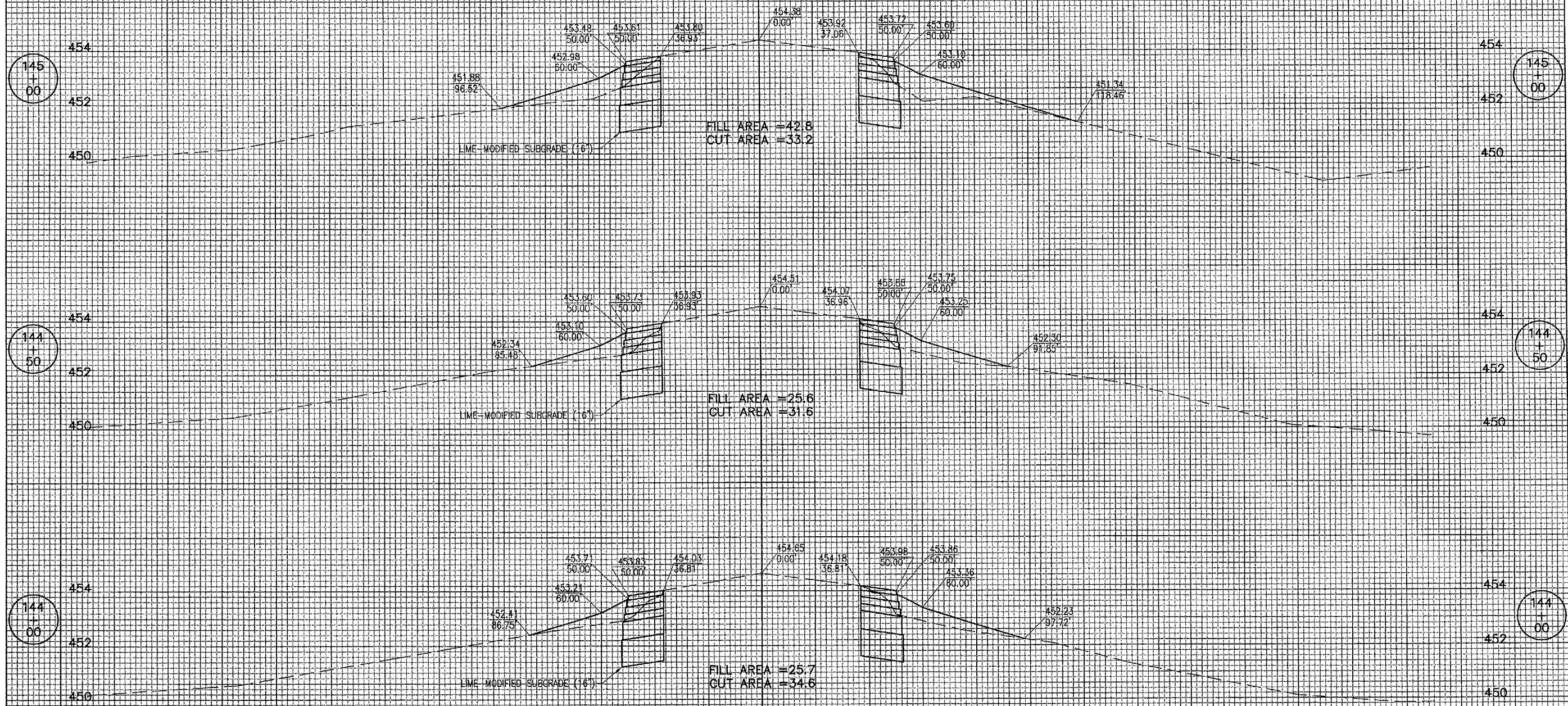
IL PROJ.: RSV-3480 A.I.P. PROJ.: 3-17-0086-810

H&E Project No. 838-04RWY Filename R-316XS.DWG Scale 1"=20'H 1"=2'V Date 01/13/04	LAYOUT TLW 01/20/04 DRAWN TLW 01/20/04 REVIEWED CAH 03/05/04
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RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 142+50 TO STA. 143+50

260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280



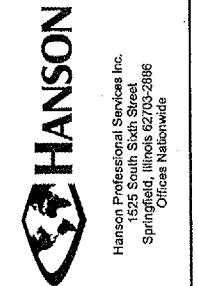
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DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

IL PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

HEI Project No. 538-04RWY	
Filename R-317XS.DWG	
Scale 1"=20'H 1"=2'V	
Date 01/13/04	
LAYOUT TLW	01/20/04
DRAWN TLW	01/20/04
REVIEWED CAH	03/05/04

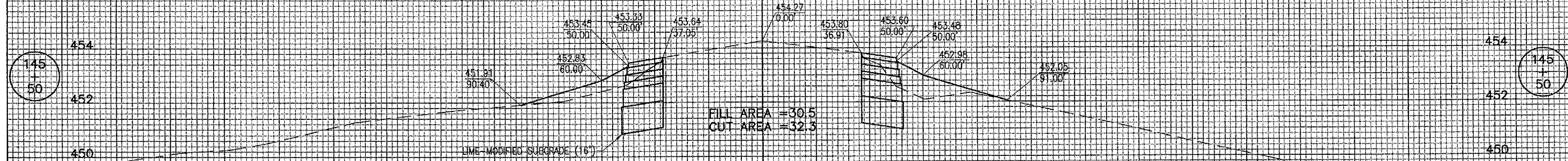
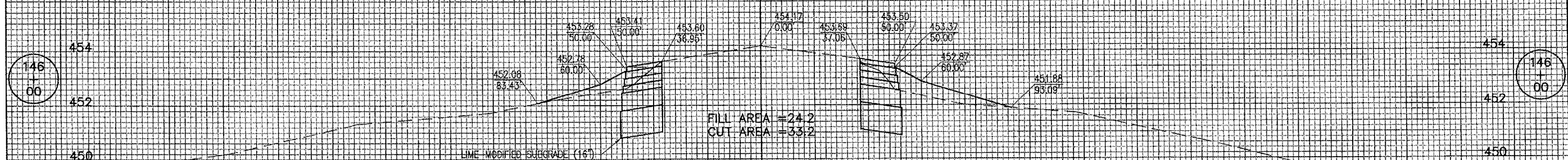
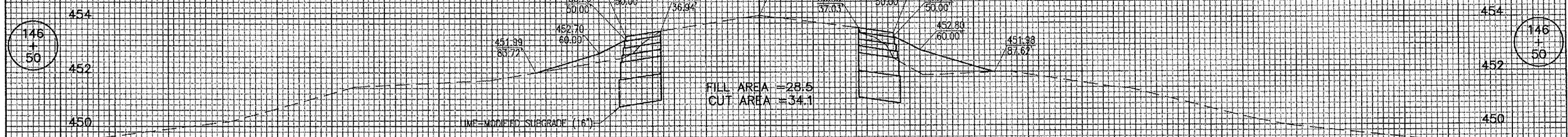


RUNWAY 9-27  
WIDENING

PROPOSED  
CROSS-SECTIONS  
STA. 144+00 TO STA. 145+00

RB014

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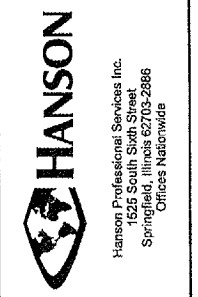
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DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

IL PROJ.: RSY-3490 A.I.P. PROJ.: 3-17-0086-B10

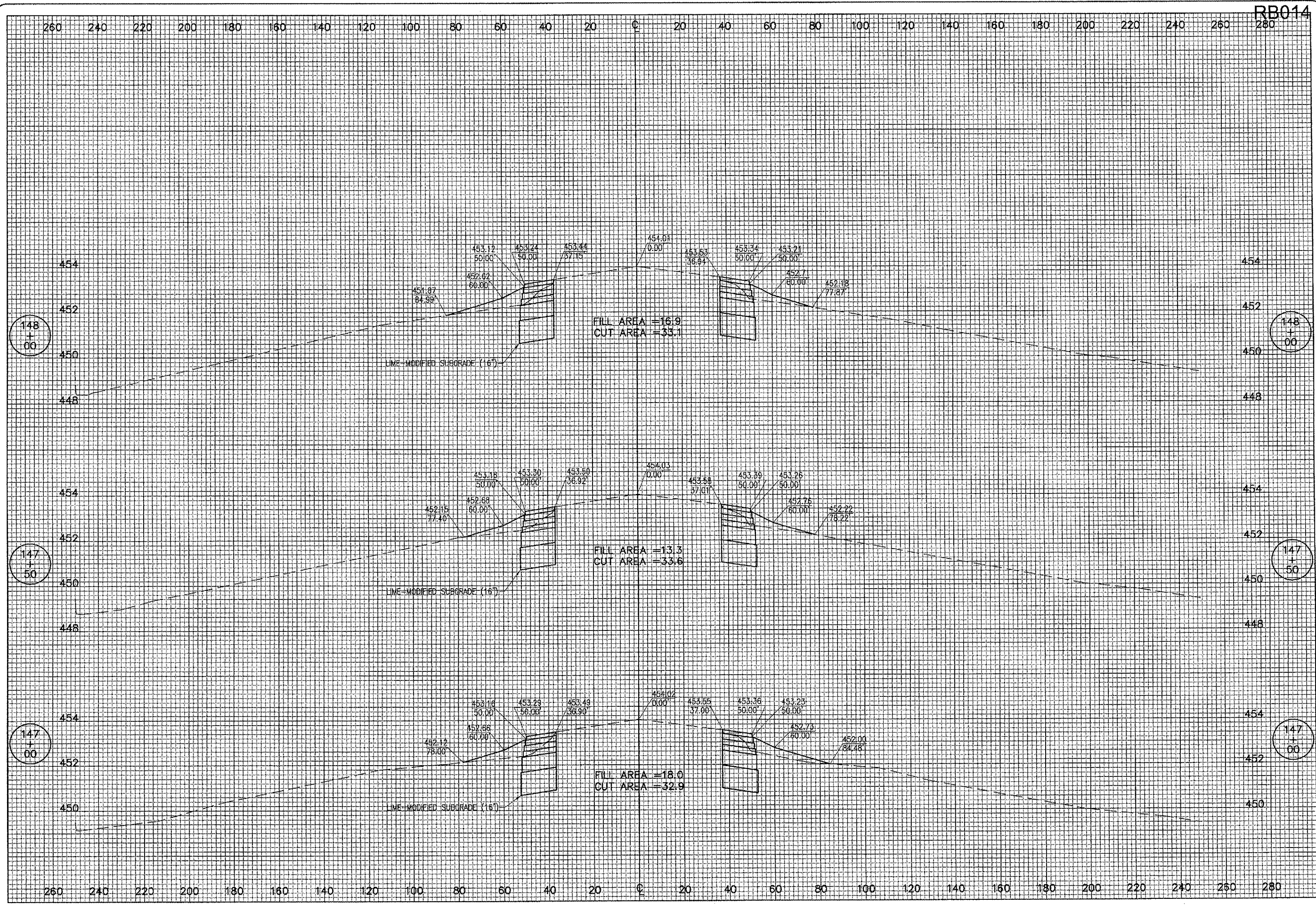
Project No. 838-04RWY	Date 01/13/04
Filename R-318XS.DWG	LAYOUT TLW 01/20/04
Scale 1"=20'H 1"=2'V	DRAWN TLW 01/20/04
	REVIEWED CAH 03/05/04



RUNWAY 9-27  
WIDENING

PROPOSED  
CROSS-SECTIONS  
STA. 145+50 TO STA. 146+50

JUN 29, 2006 10:11 AM CAH  
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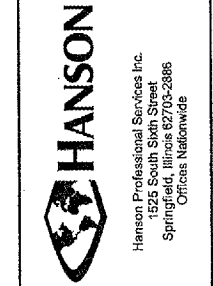


RB014

DATE	REVISION

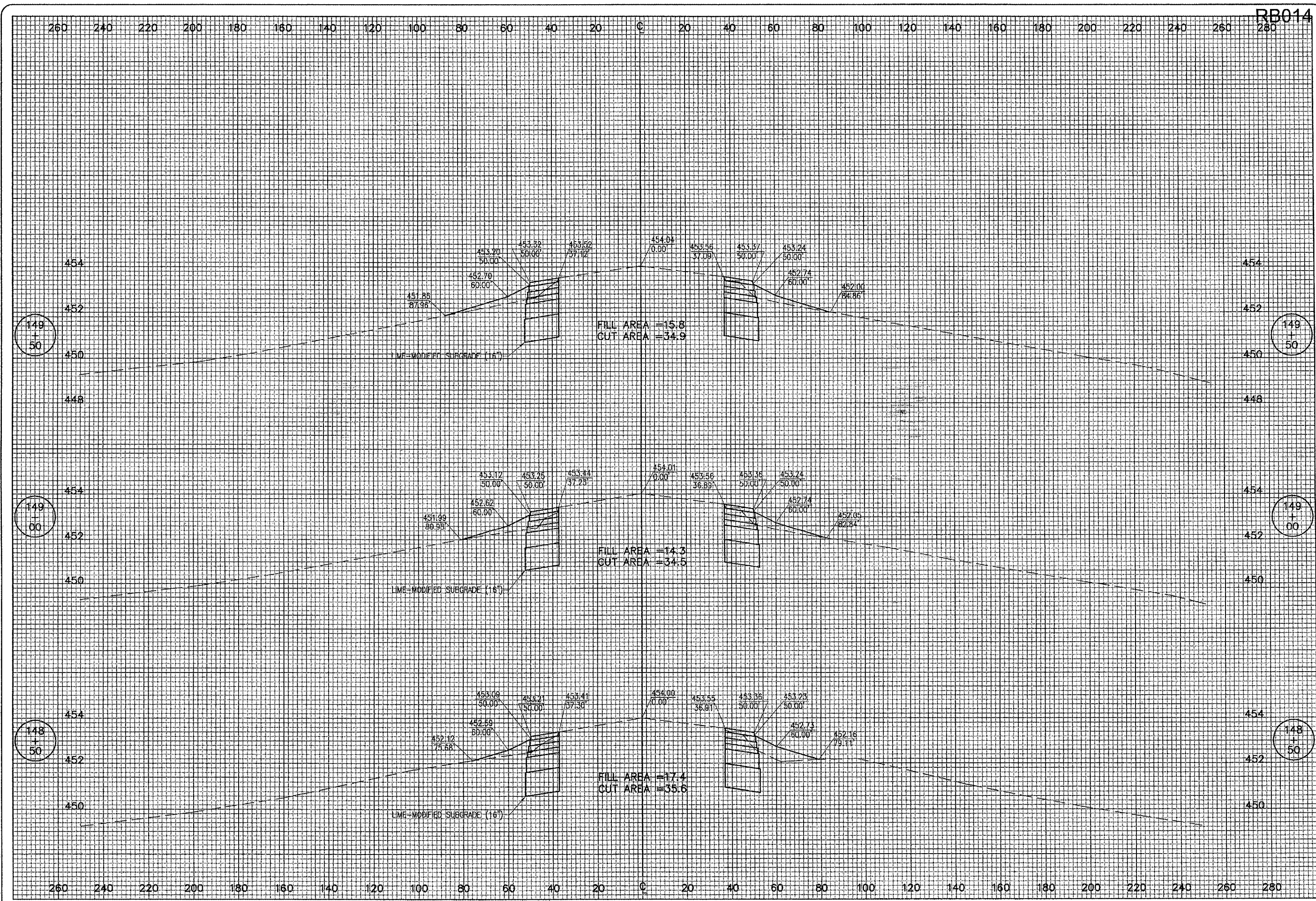
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 I.L. PROJ.: RSV-3480 A.L.P. PROJ.: 3-17-0086-B10

Proj. No. 838-04RWY	
Filename R-319XS.DWG	
Scale 1"=20H, 1"=2V	
Date 01/13/04	
LAYOUT TLW 01/20/04	
DRAWN TLW 01/20/04	
REVIEWED CAH 03/05/04	



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 147+00 TO STA. 148+00

JUN 29 2006 10:11 AM CAH  
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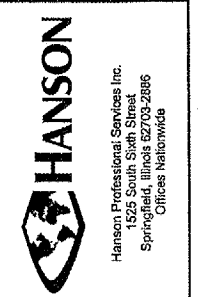


RB014

DATE	REVISION	BY

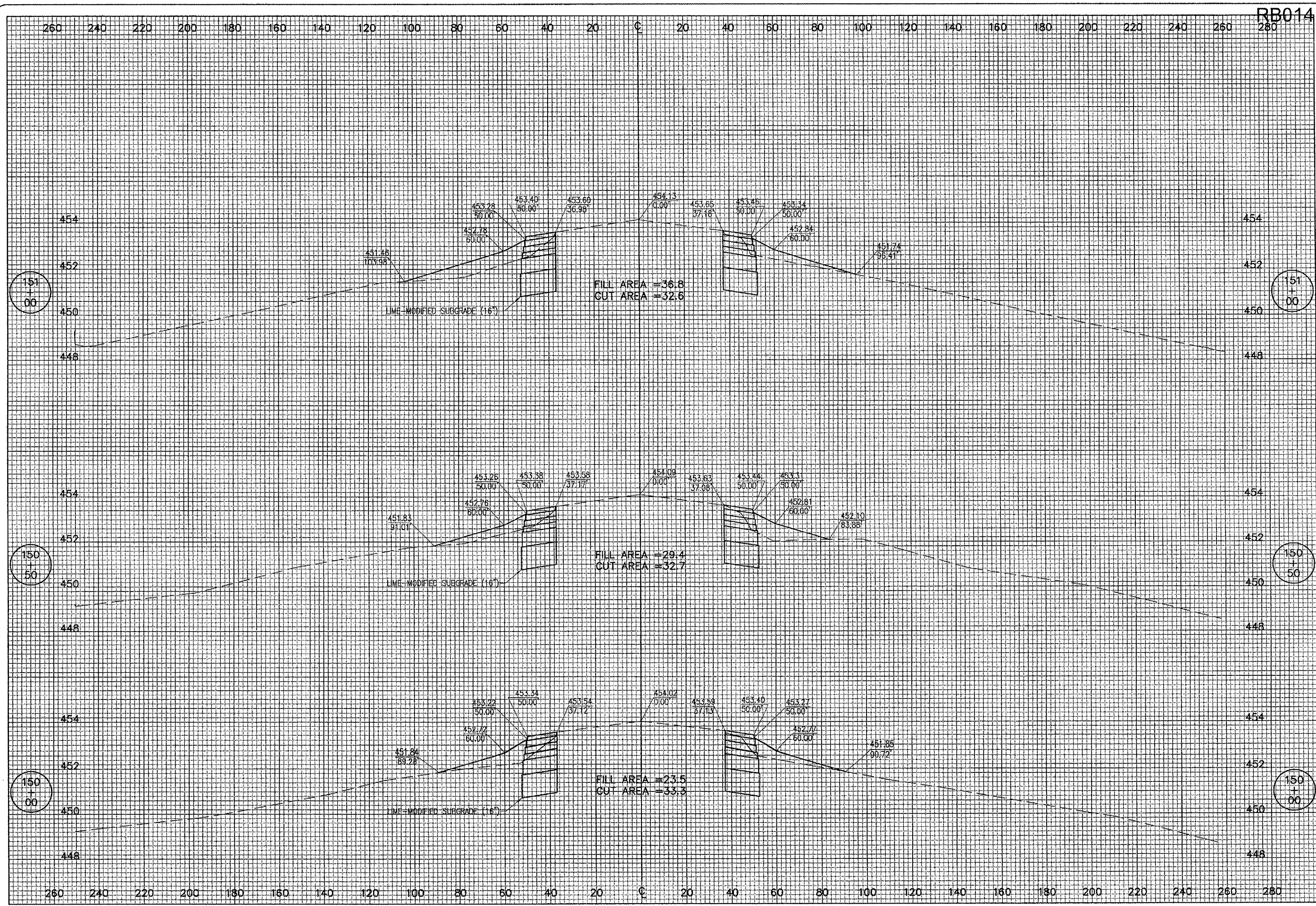
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 I.L. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0066-B10

FILE PROJECT NO.	DATE	REVIEWED	CAH
838-04RWY	01/13/04		
R-320XS.DWG			
Scale: 1"=20'H 1"=2'V			



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 148+50 TO STA. 149+50

JUN 29, 2006 10:12 AM CAH  
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RB014

DATE	REVISION	BY

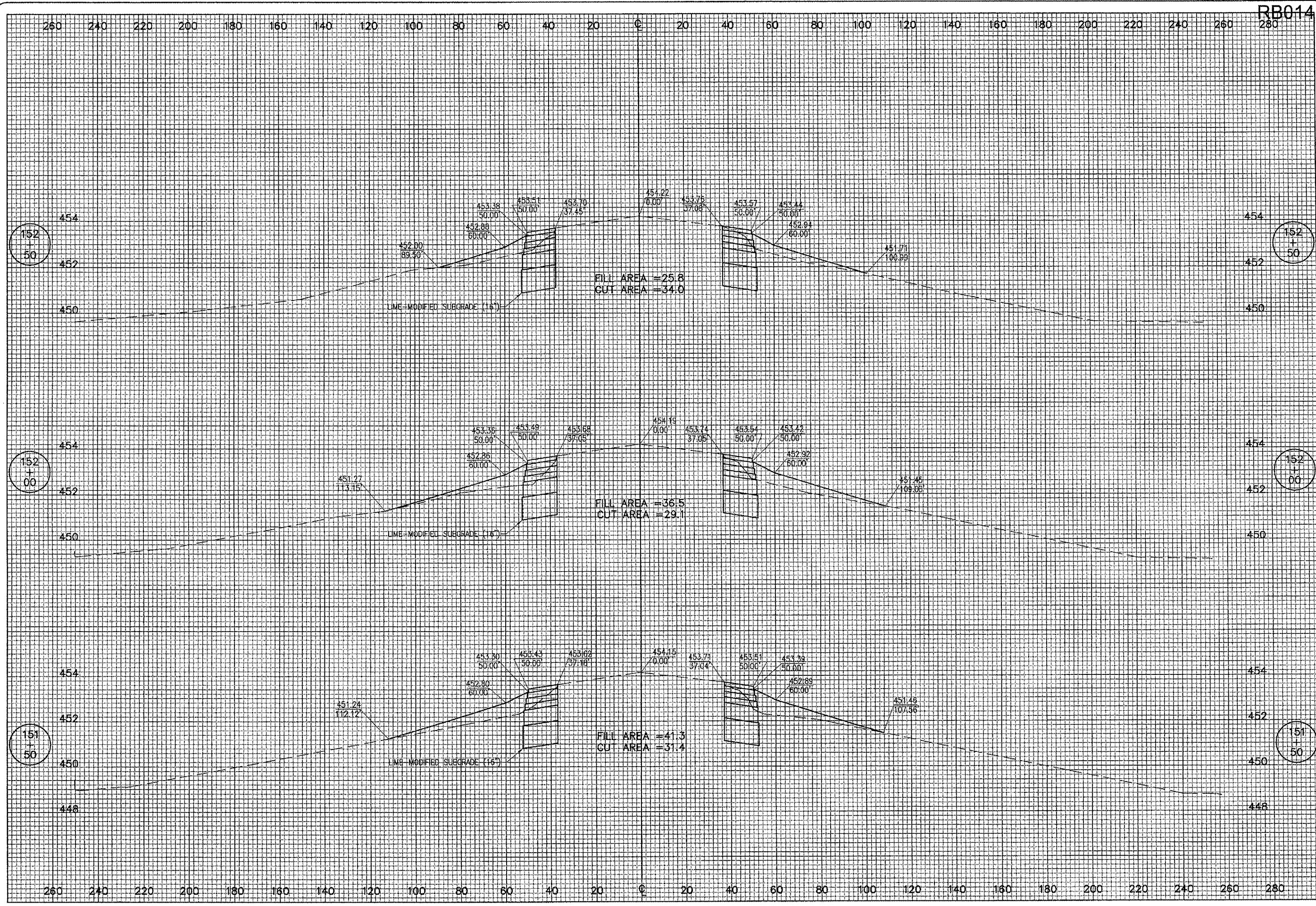
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 I.L. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

REVISION	DATE	BY
LAYOUT	01/20/04	CAH
DRAWN	01/20/04	CAH
REVIEWED	03/05/04	CAH



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 150+00 TO STA. 151+00

JUN 29, 2006 10:12 AM CAH  
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RB014

DATE	REVISION	BY

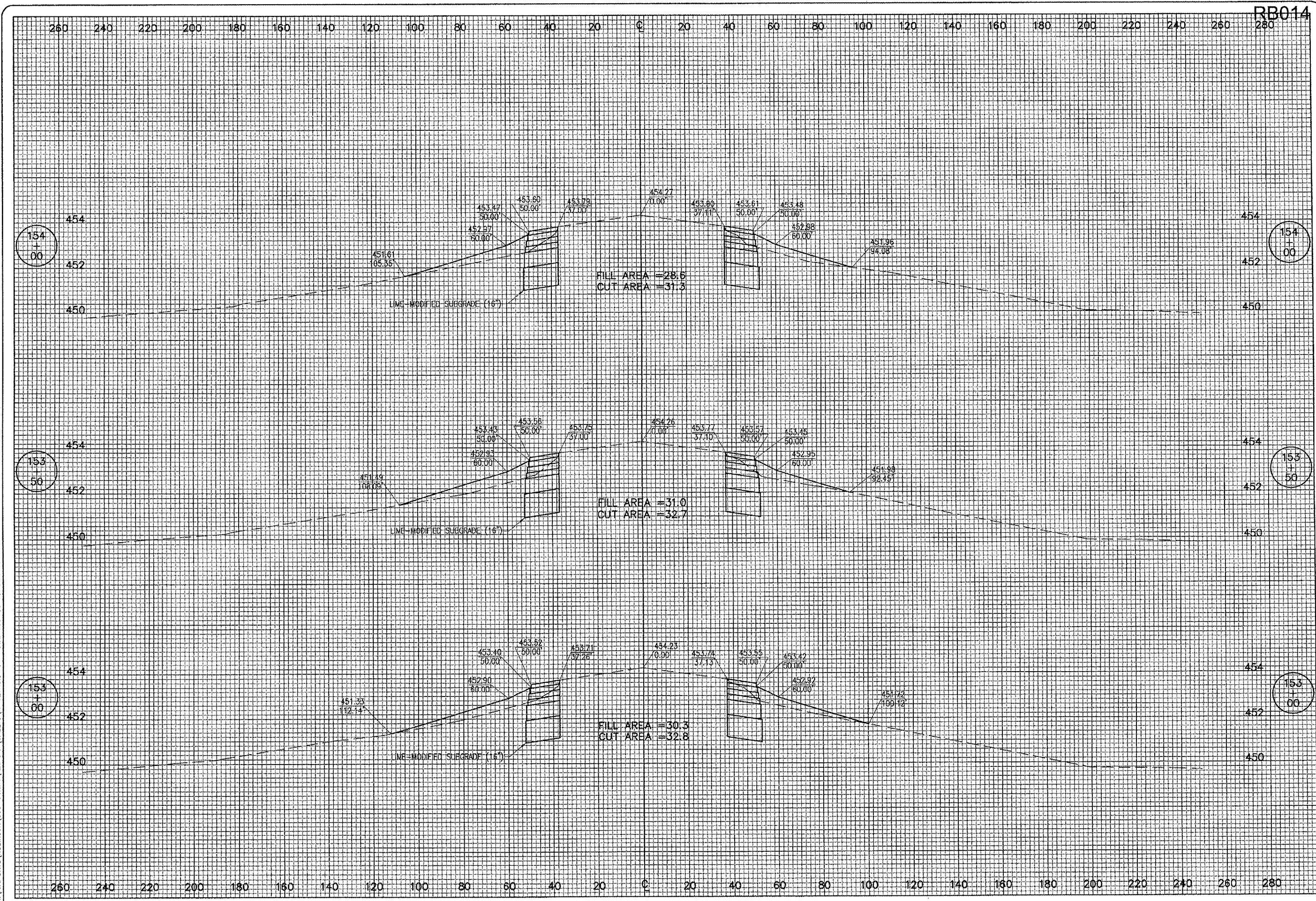
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 I.L. PROJ.: RSY-3490 A.I.P. PROJ.: J-17-0086-B10

REV. Project No. 836-04RWY	01/20/04
Drawings R-322XS.DWG	TLW
Scale 1"=20'H 1"=2'V	TLW
Date 01/13/04	CAH
LAYOUT	01/20/04
DRAWN	01/20/04
REVIEWED	03/05/04



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 151+50 TO STA. 152+50

JUN 29, 2006 10:13 AM CAH  
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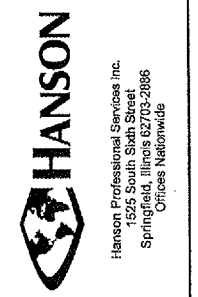


RB014

REVISION	DATE	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 I.L. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

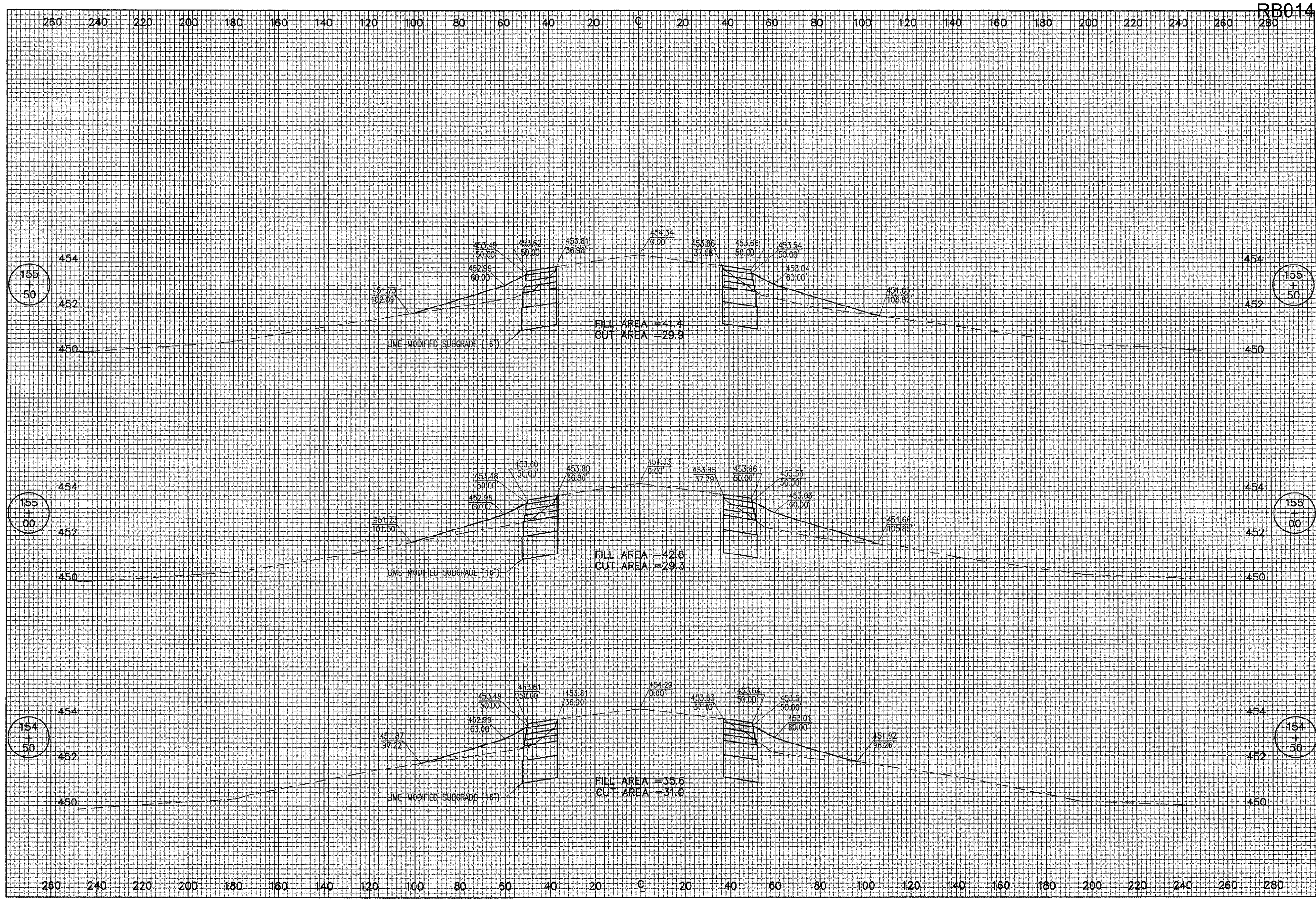
REL. PROJECT No. 838-04RWY	DATE 01/13/04
Revision R-323XS.DWG	LAYOUT TLW 01/20/04
Scale 1"=20'H, 1"=2'V	DRAWN TLW 01/20/04
	REVIEWED CAH 03/05/04



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 153+00 TO STA. 154+00



JUN 29, 2006 10:13 AM CAH  
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DATE	REVISION	BY

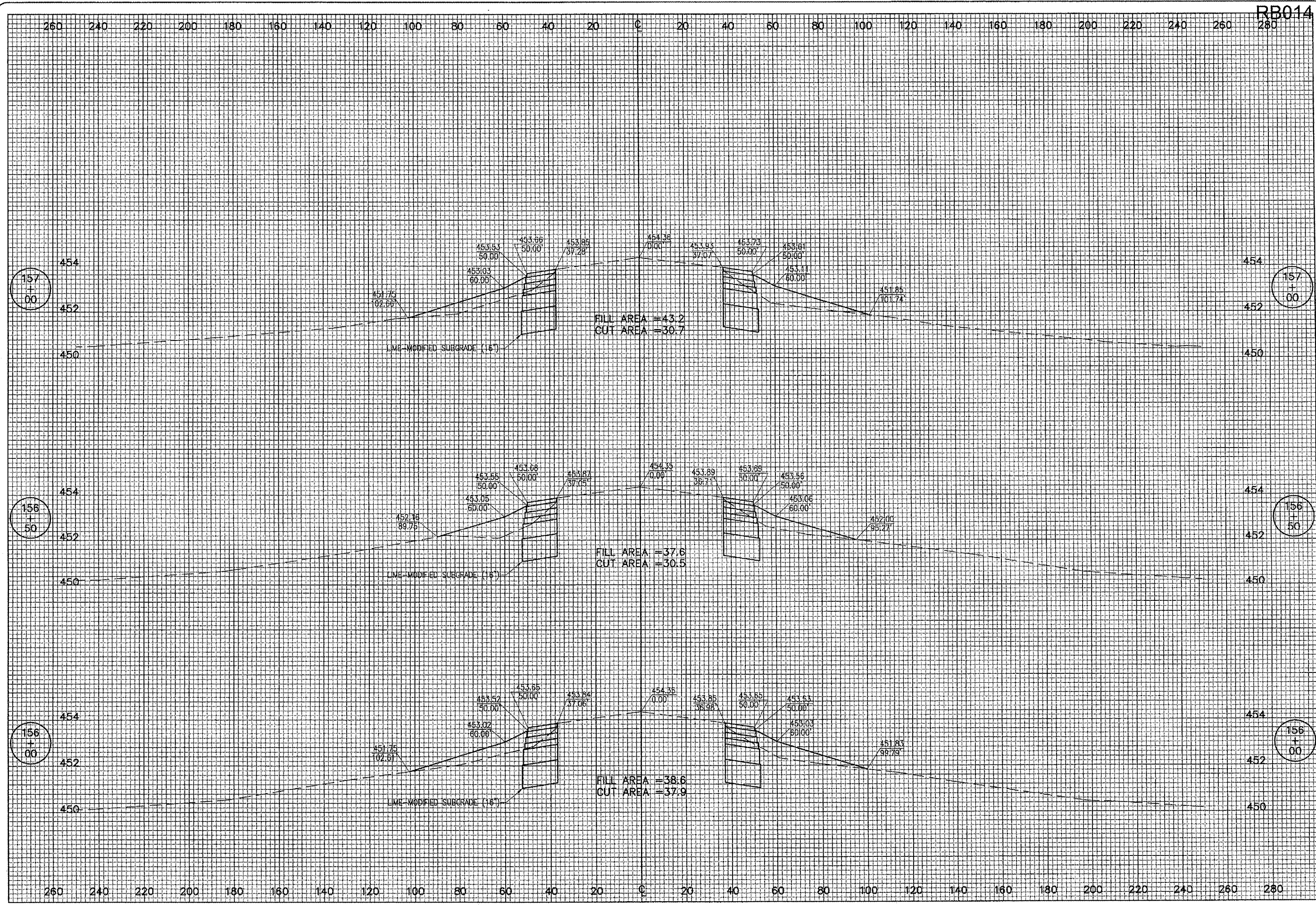
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 ILL. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

ILL. Project No. 838-04RWY Drawing R-324XS.DWG Scale 1"=20'H 1"=2'V Date 01/13/04	LAYOUT TLW 01/20/04 DRAWN TLW 01/20/04 REVIEWED CAH 03/05/04
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RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 154+50 TO STA. 155+50

JUN 29, 2006 10:14 AM CAH  
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RB014

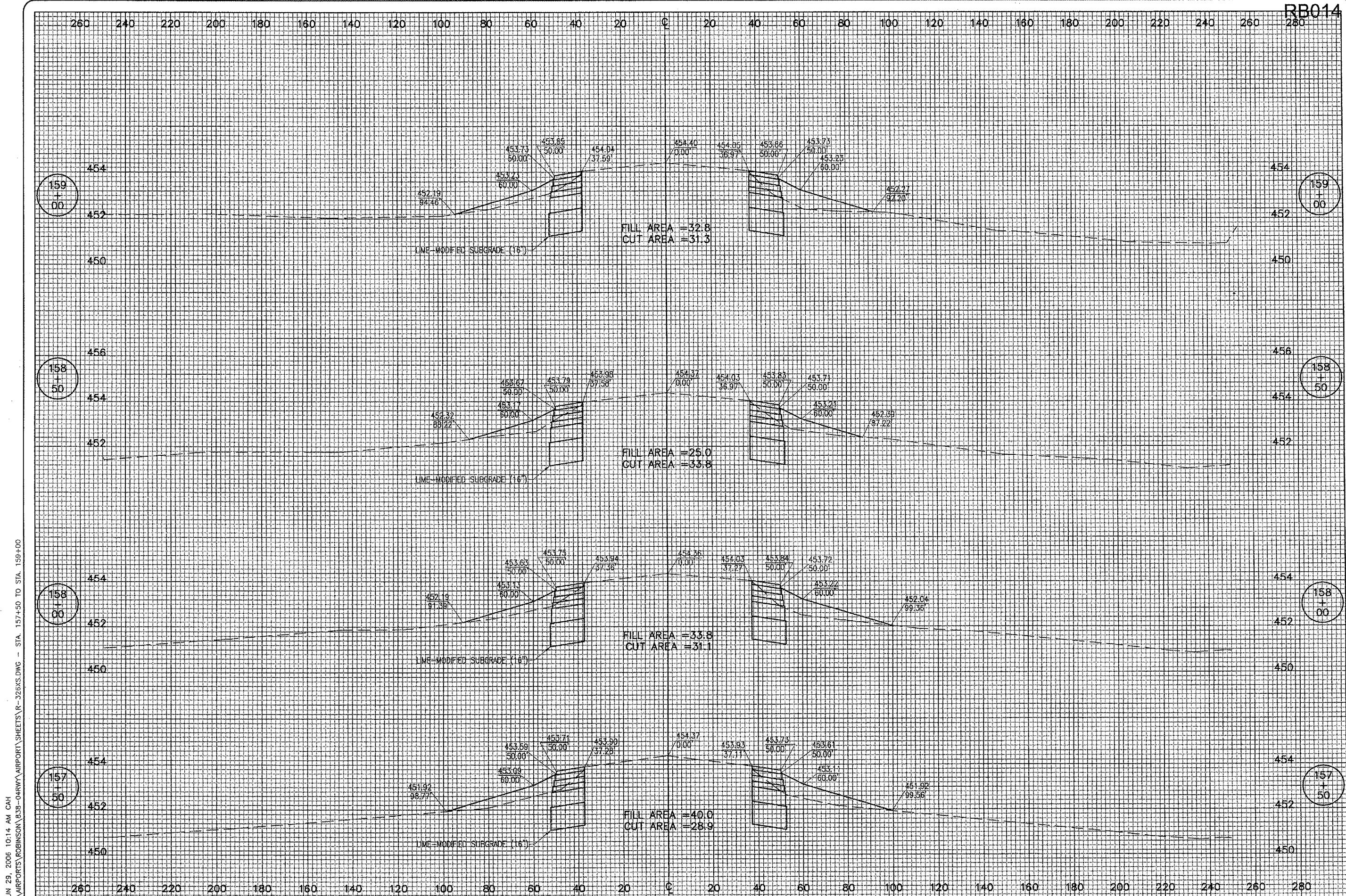
DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 ILL. PROJ.: RSV-3480 A.I.P. PROJ.: 3-17-0086-B10

HE Project No. 838-04RWY	
Element R-325XS DWG	
Scale 1" = 20'H 1" = 2'V	
Date 01/13/04	
LAYOUT TLW 01/20/04	
DRAWN TLW 01/20/04	
REVIEWED CAH 03/05/04	

**HANSON**  
 Hanson Professional Services Inc.  
 1225 South Sixth Street  
 Springfield, Illinois 62705-2886  
 Offices Nationwide

RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 156+00 TO STA. 157+00



JUN 23 2006 10:14 AM CAH  
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DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
ROBINSON  
CRAWFORD COUNTY, ILLINOIS

IL PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

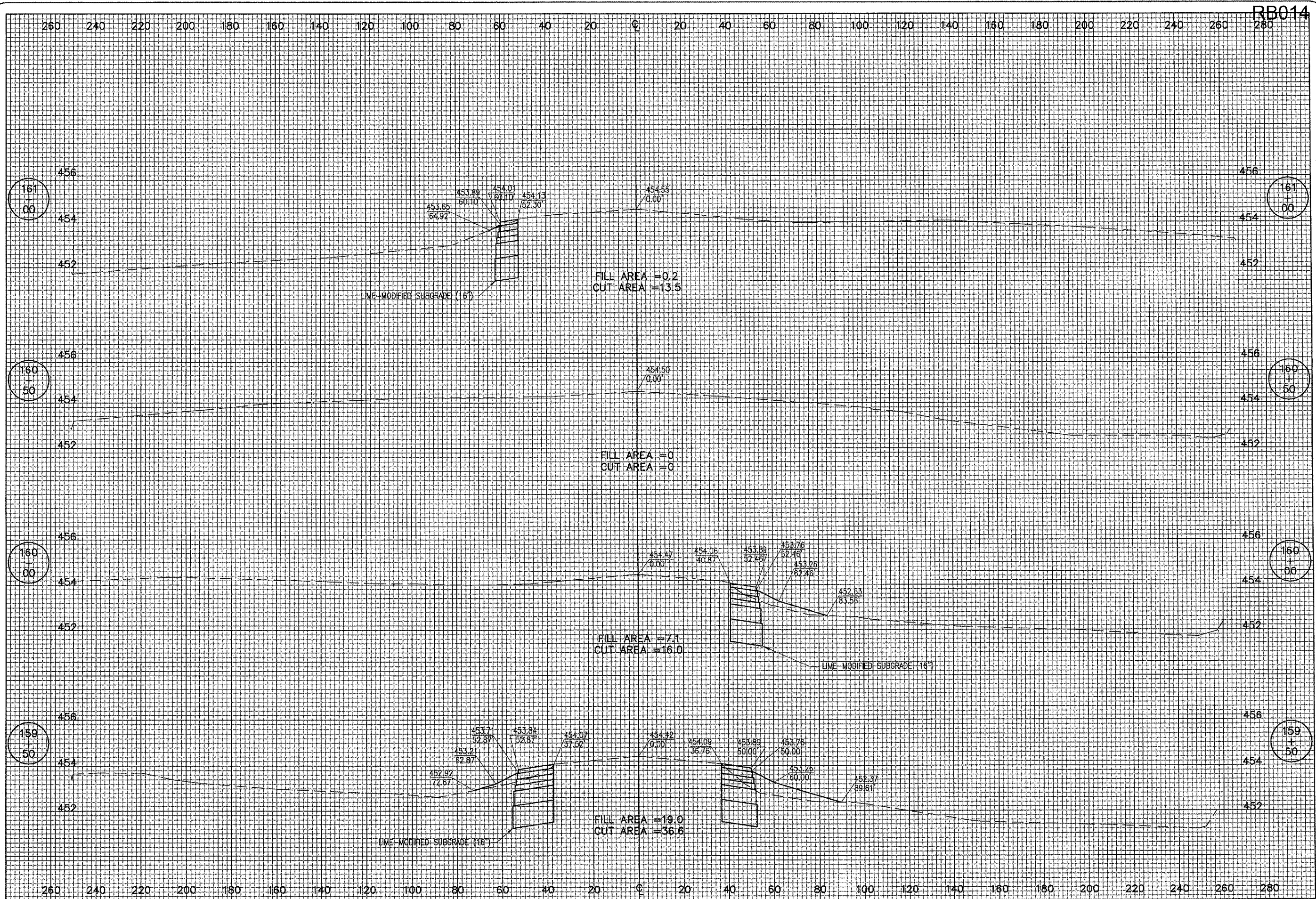
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LAYOUT	TLW	01/20/04	
DRAWN	TLW	01/20/04	
REVIEWED	CAH	03/05/04	



RUNWAY 9-27  
WIDENING

PROPOSED  
CROSS-SECTIONS  
STA. 157+50 TO STA. 159+00

JUN 29, 2006 10:15 AM CAH  
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RB014

DATE	REVISION	BY

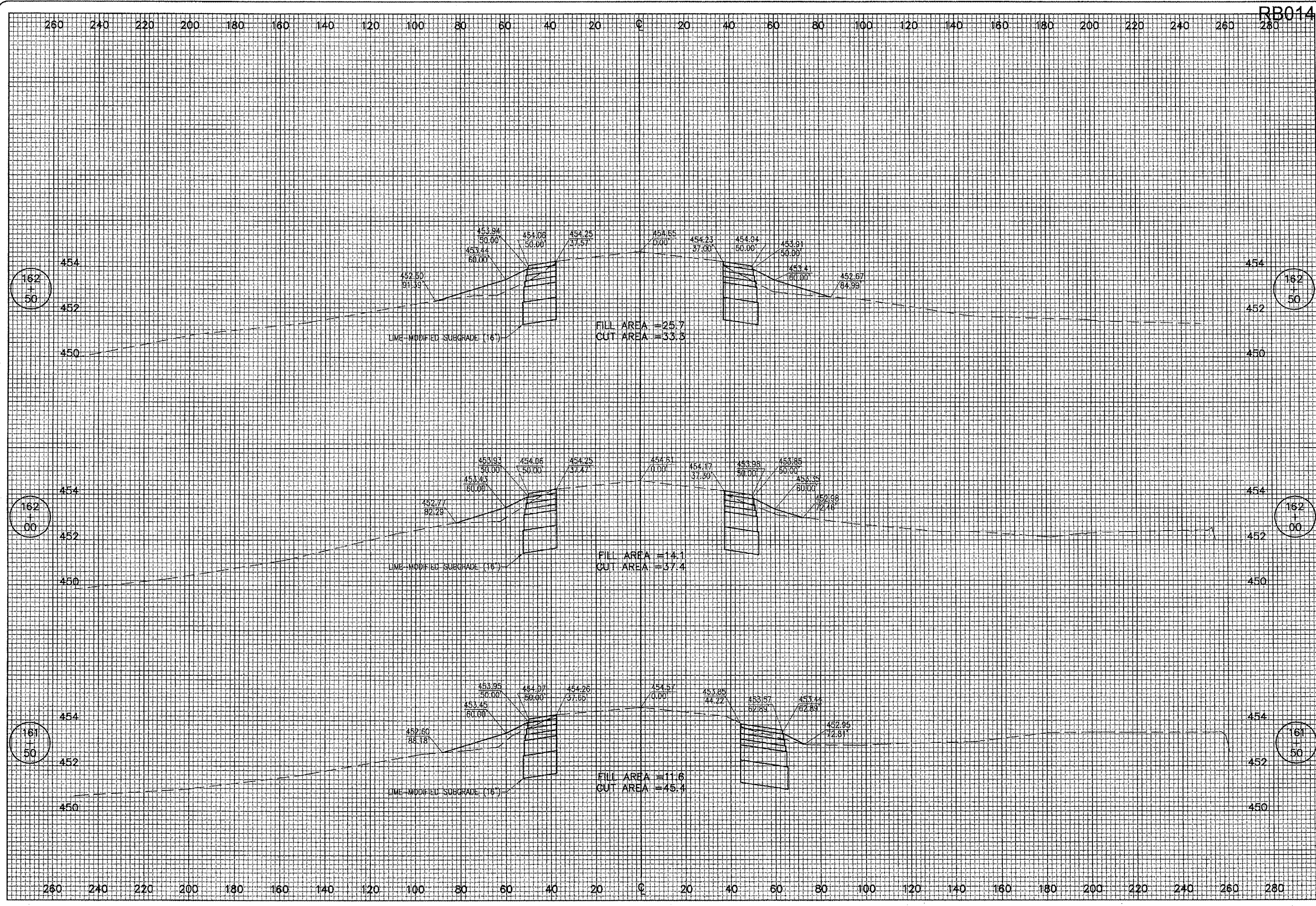
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 I.L. PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-B10

FILE	PROJECT NO.	DATE	BY	REVIEWED	DATE
R-327XS.DWG	B38-04RWY	01/13/04	CAH	CAH	03/05/04
1"=20'H 1"=2'V					



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 159+50 TO STA. 161+00

JUN 29, 2006 10:15 AM CMH  
 I:\AIRPORTS\ROBINSON\838-04RWY\AIRPORT\SHEETS\R-328XS.DWG - STA. 161+50 TO STA. 162+50



RB014

DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 I.L. PROJ.: RSY-3490 A.I.P. PROJ.: J-17-0086-B10

DATE	BY	REVIEWED
01/20/04	TLW	CAH
01/20/04	TLW	
03/05/04	CAH	

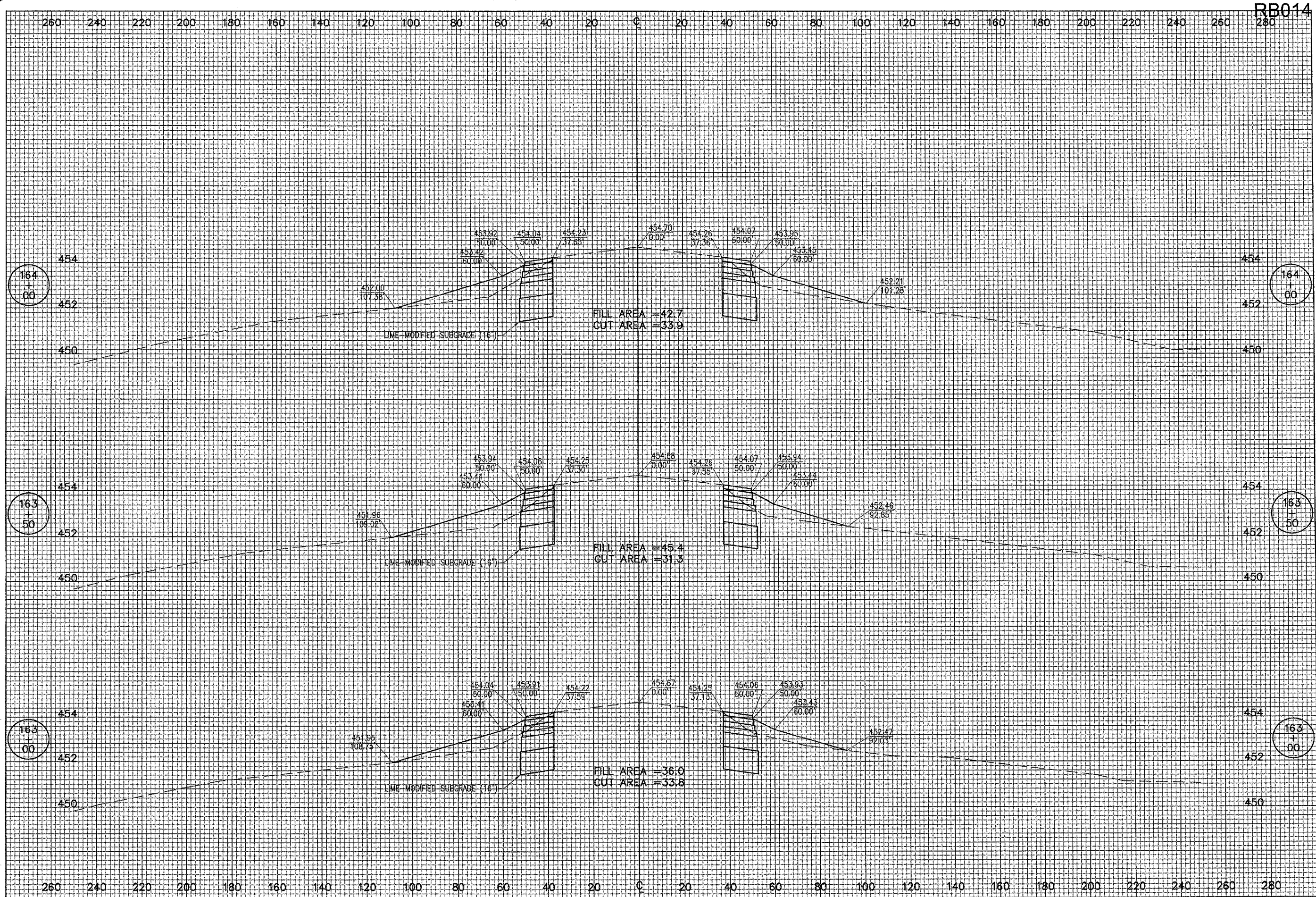
H.E. Project No. 838-04RWY  
 Drawing: R-328XS.DWG  
 Scale: 1"=20'H 1"=2'V  
 Date: 01/13/04



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 161+50 TO STA. 162+50

JUN 29, 2006 10:16 AM CAH  
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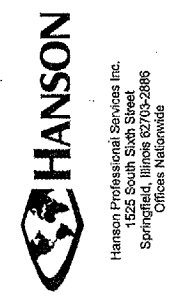
RB014



REVISION	DATE	BY

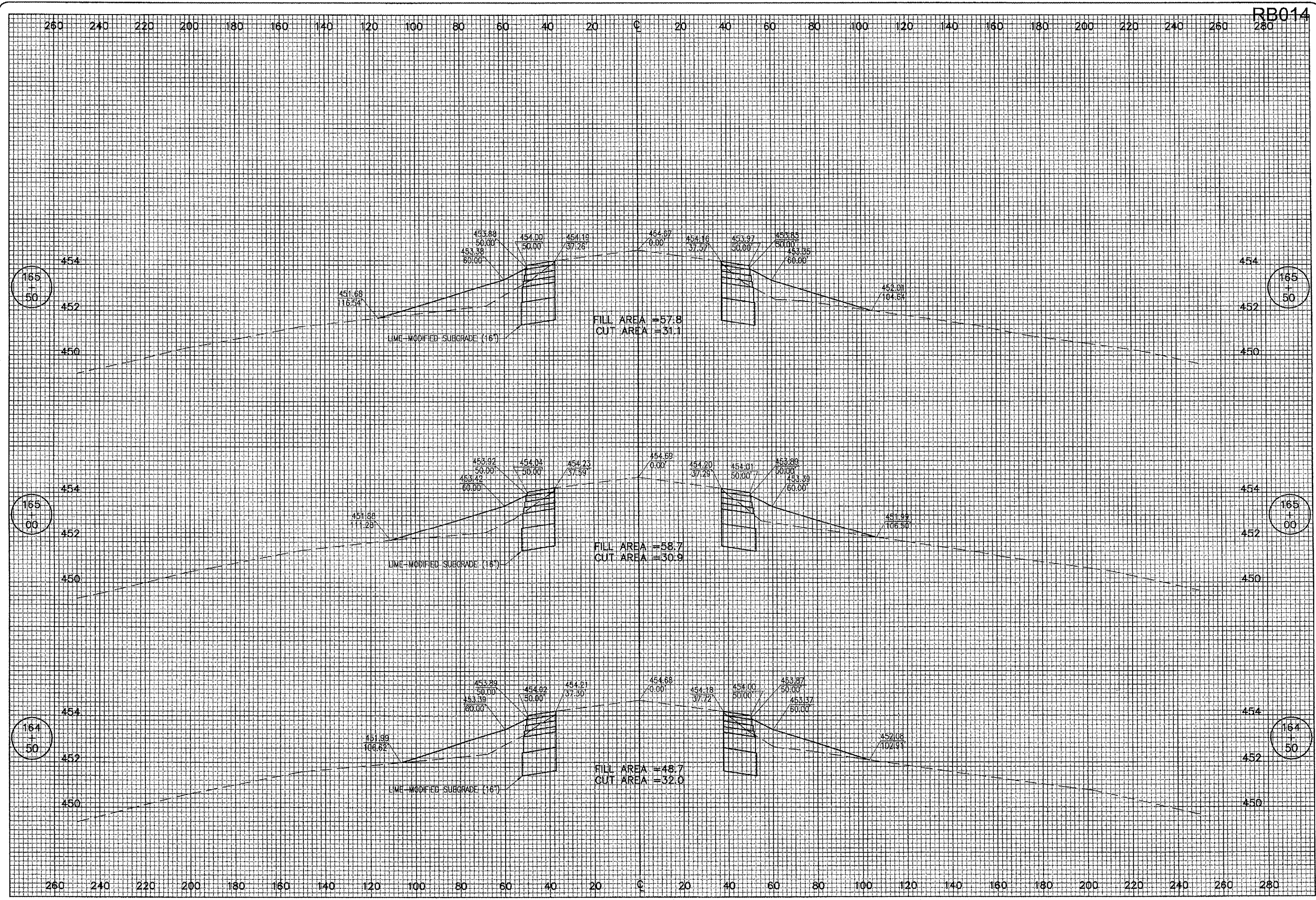
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 IL PROJ.: RSV-3490 A.I.P. PROJ.: 3-17-0086-810

HE Project No. 838-04RWY	
Filename: R-329XS.DWG	
Scale: 1"=20'H 1"=2'V	
Date: 01/13/04	
LAYOUT: TLW	01/20/04
DRAWN: TLW	01/20/04
REVIEWED: CAH	03/05/04



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 163+00 TO STA. 164+00

JUN 29, 2006 10:16 AM CAH  
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RB014

DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 I.L. PROJ.: RSV-3490 A.L.P. PROJ.: 3-17-0086-810

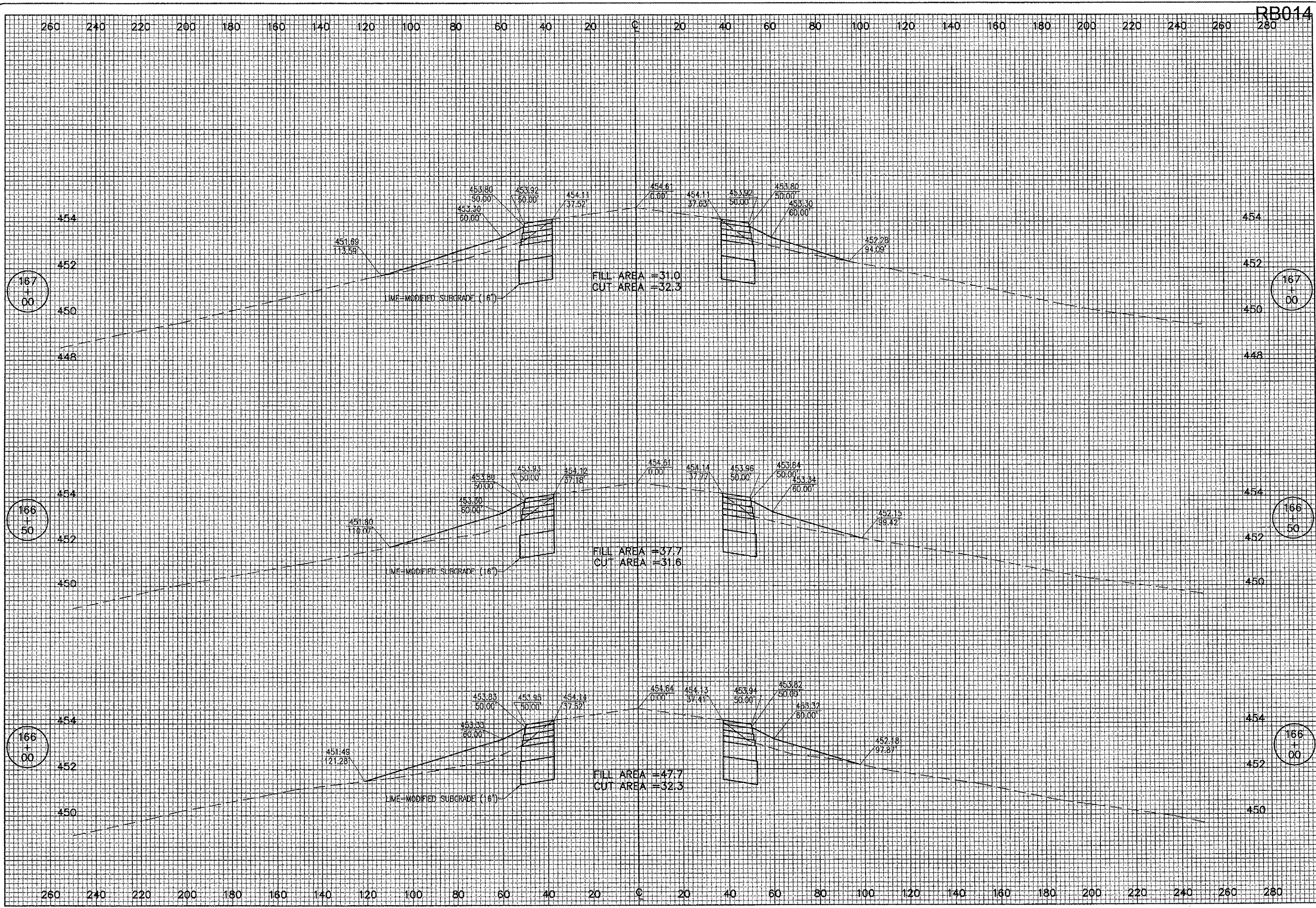
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838-04RWY	01/13/04		
FILENAME: R-330XS.DWG			
SCALE: 1"=20'H 1"=2'V			
DATE: 01/13/04			
LAYOUT	TLW	01/20/04	
DRAWN	TLW	01/20/04	
REVIEWED	CAH	03/05/04	



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 164+50 TO STA. 165+50

JUN 29, 2006 10:17 AM CAH  
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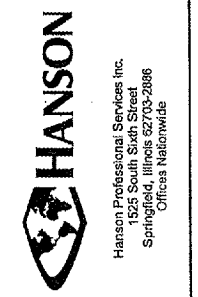
RB014



DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 A.I.P. PROJ.: 3-17-0086-B10  
 I.L. PROJ.: RSV-3490

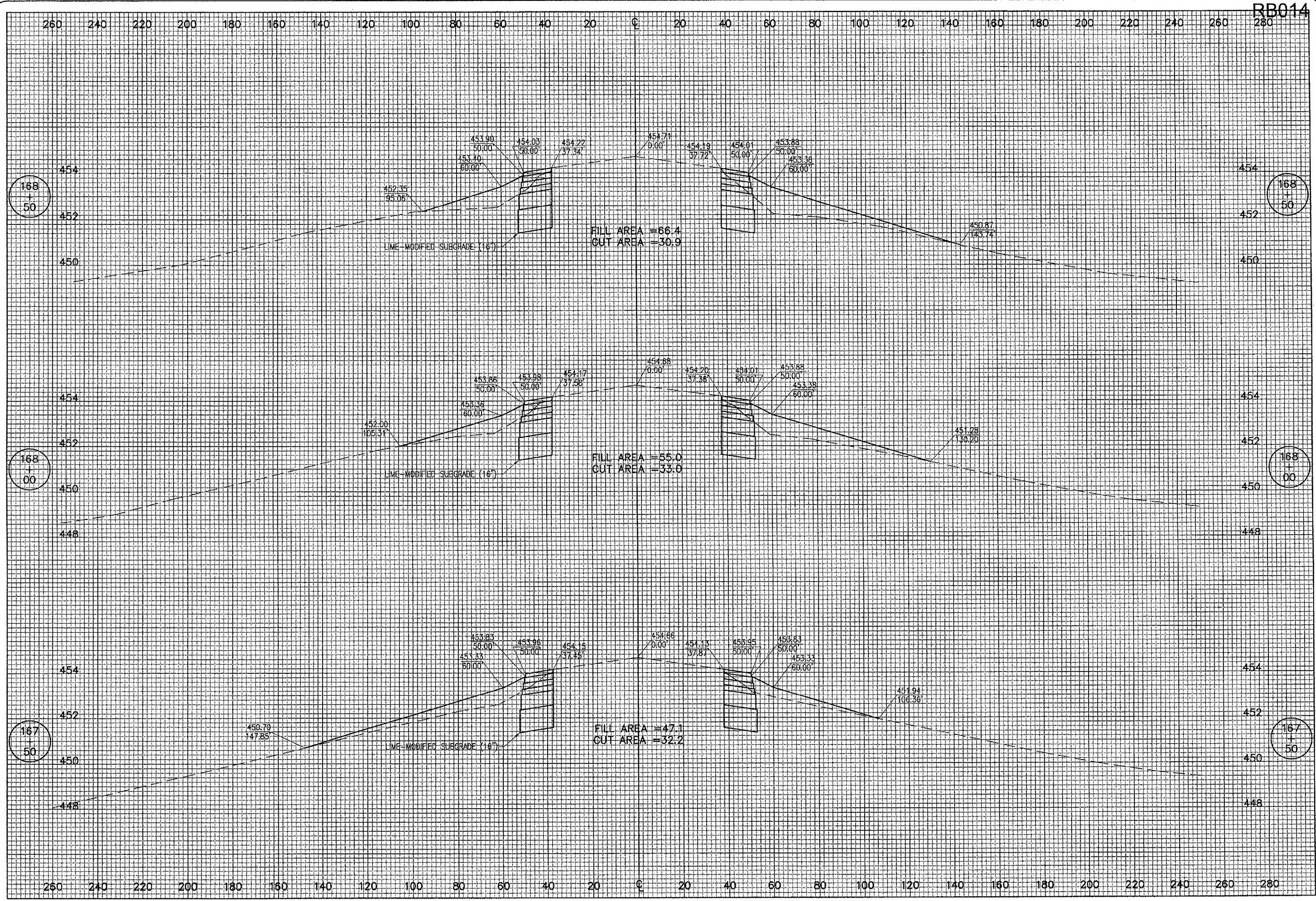
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Filename: R-331XS.DWG	Scale: 1"=20'H, 1"=2'V	
Date: 01/13/04		
LAYOUT	TLW	01/20/04
DRAWN	TLW	01/20/04
REVIEWED	CAH	03/05/04



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 166+00 TO STA. 167+00



JUN 29, 2006 10:18 AM CAH  
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RB014

DATE	REVISION	BY

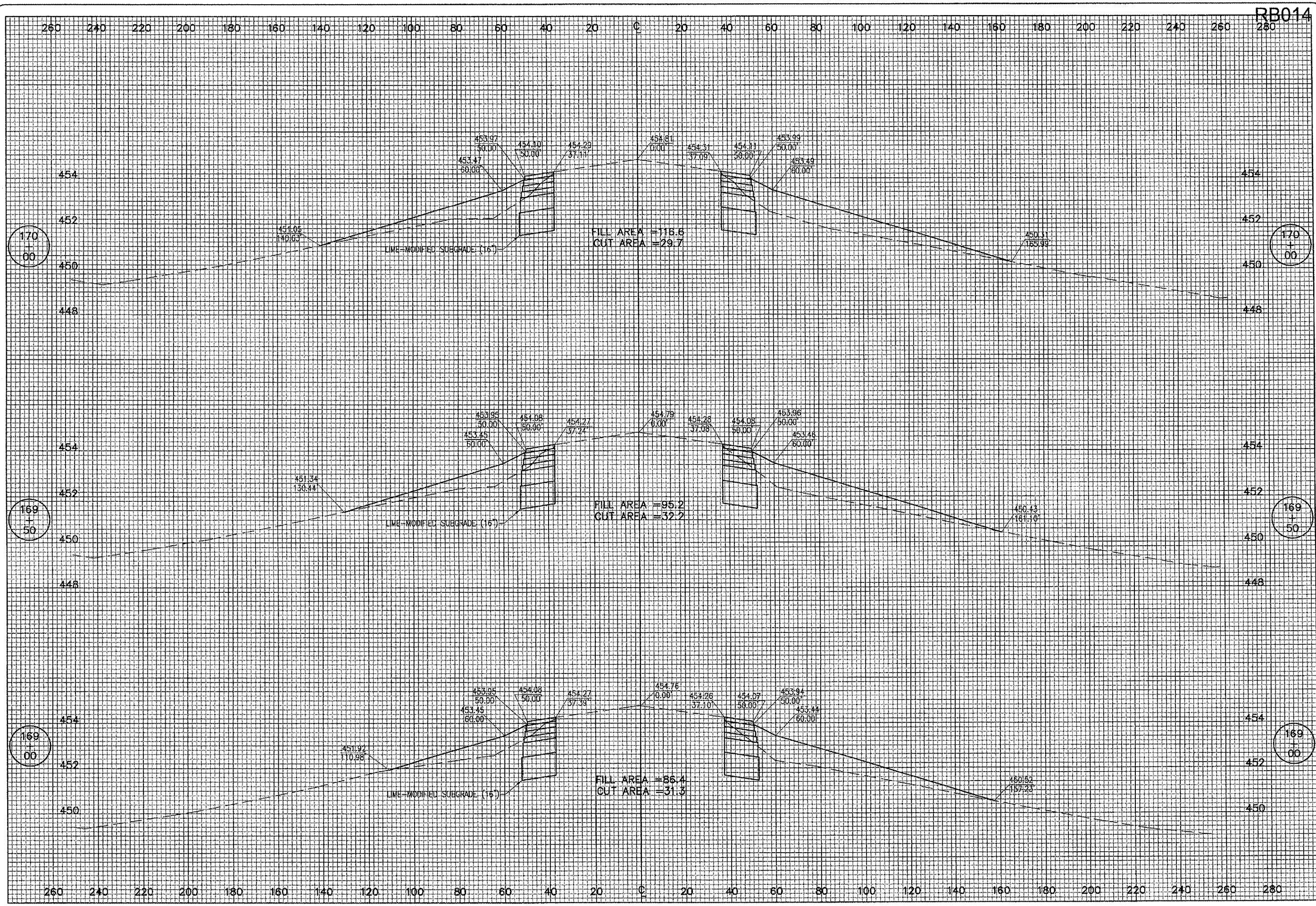
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 A.I.P. PROJ.: 3-17-0086-810  
 I.L. PROJ.: RSV-3490

LAYOUT	T.L.W.	01/20/04
DRAWN	T.L.W.	01/20/04
REVIEWED	CAH	03/05/04



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 167+50 TO STA. 168+50

RB014



BY	REVISION

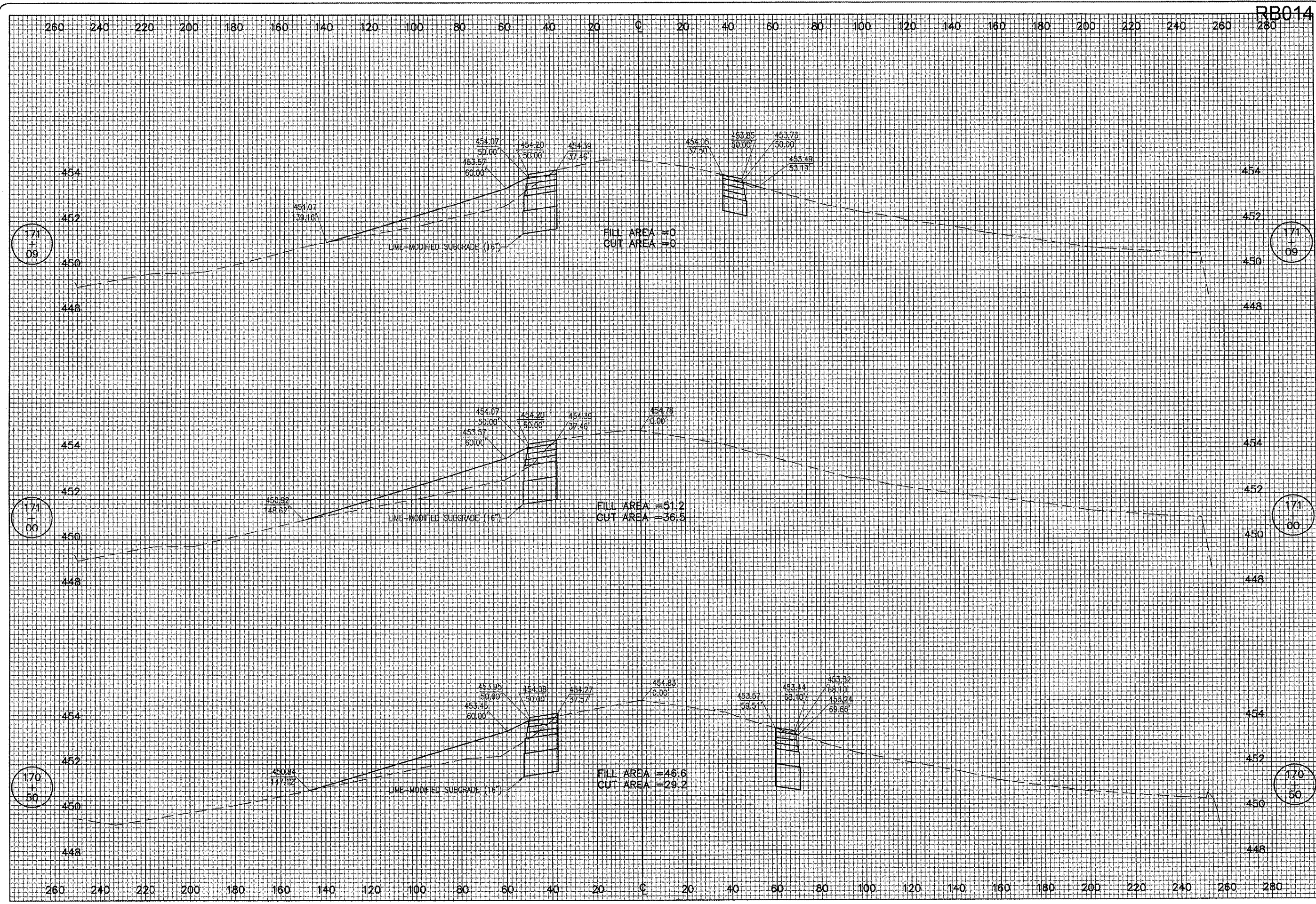
ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 I.L. PROJ.: RSV-3490 A.L.P. PROJ.: 3-17-0085-810

DATE	BY	REVIEWED
01/20/04	TLW	CAH
01/20/04	TLW	
03/05/04		

**HANSON**  
 Hanson Professional Services Inc.  
 1525 South Sixth Street  
 Springfield, Illinois 62763-2886  
 Chicago Nationwide

RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 169+00 TO STA. 170+00

JUN 29, 2006 10:19 AM CAH  
 I:\AIRPORTS\ROBINSON\538-04RWY\AIRPORT\SHEETS\R-334XS.DWG - STA. 170+50 TO STA. 171+50



RB014

DATE	REVISION	BY

ROBINSON MUNICIPAL AIRPORT  
 ROBINSON  
 CRAWFORD COUNTY, ILLINOIS  
 A.I.P. PROJ.: RSY-3490 I.L. PROJ.: 3-17-0086-B10

HEL Project No. 839-04RWY	01/20/04
Revision R-334XS.DWG	TLW
Scale 1"=20'H 1"=2'V	TLW
Date 01/13/04	CAH
LAYOUT	01/20/04
DRAWN	01/20/04
REVIEWED	03/05/04



RUNWAY 9-27  
 WIDENING  
 PROPOSED  
 CROSS-SECTIONS  
 STA. 170+50 TO STA. 171+50