

# CONSTRUCTION PLANS

## FOR

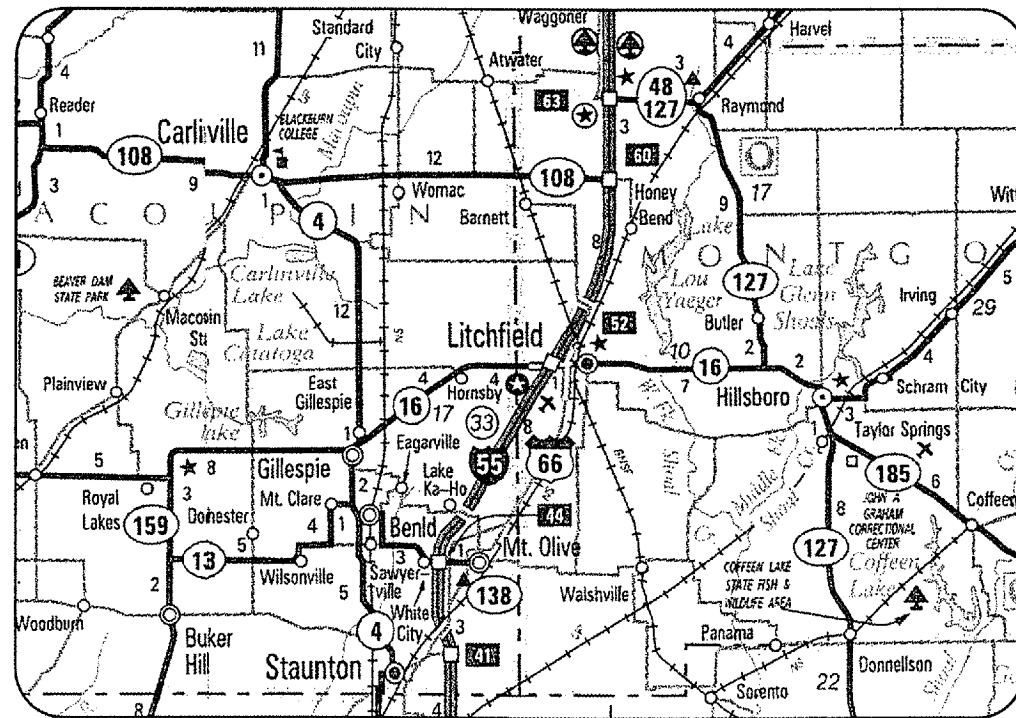
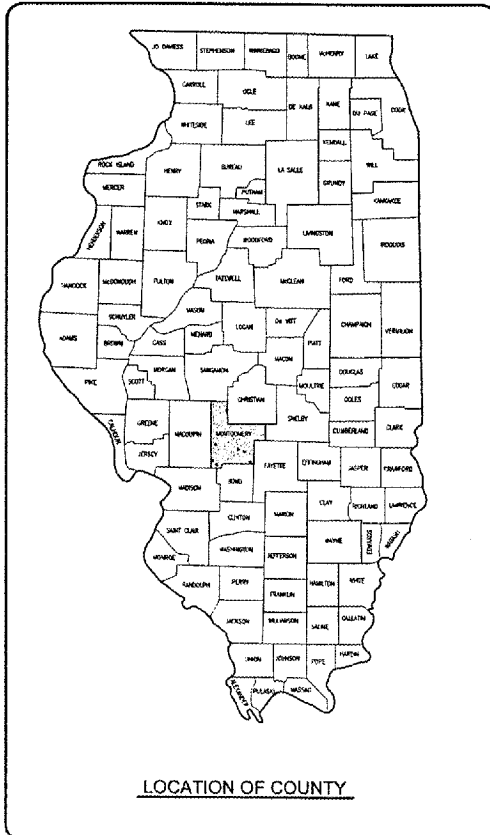
# LITCHFIELD MUNICIPAL AIRPORT

## LITCHFIELD, MONTGOMERY COUNTY, ILLINOIS

### P.F.C. OVERLAY OF AIRCRAFT APRON

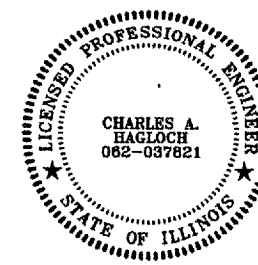
#### SCOPE OF WORK

THIS PROJECT CONSISTS OF CRACK CLEANING AND SEALING, REMOVE & REPLACE BITUMINOUS PAVEMENT, APPLICATION OF A 0.10' POROUS FRICTION COURSE AND MARKING



### LOCATION

ILL. PROJ.: 3LF-3645  
 A.I.P. PROJ.: 3-17-0063-B14  
 LATITUDE: 39° 09' 59"  
 LONGITUDE: 89° 40' 29"  
 ELEVATION: 690.0' M.S.L.  
 DATE: MAY 11, 2007



REVISED 06/08/07



Submitted by: *Charles A. Hagloch* ENG'R  
 Date Submitted: June 14, 2007  
 Lic. Exp. Date: November 30, 2007

#### LITCHFIELD AIRPORT AUTHORITY

Approved: *Willie D. [Signature]* CHAIRMAN  
 Date: 6/12/2007  
 Approved: *Janet Wright* SECRETARY  
 Date: 6/12/2007

REVISION	DATE	BY

LITCHFIELD MUNICIPAL AIRPORT  
LITCHFIELD, ILLINOIS

ILL. PROJ.: 3LF-3645 A.I.P. PROJ.: 3-17-0063-B14

FILE Project No. 814-07APND	LAYOUT 02/01/07
Revision R-001CVR.DWG	DRAWN Z.S.H. 02/01/07
Scale NOT TO SCALE	REVIEWED C.A.H. 05/09/07
Date 02/01/07	



P.F.C. OVERLAY  
AIRCRAFT APRON

COVER SHEET

LI030

REVISION	DATE	BY

**SUMMARY OF QUANTITIES**

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITIES	AS BUILT QUANTITIES
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1	
AR201661	CLEAN & SEAL BITUMINOUS CRACKS	L.F.	1,414	
AR401650	BITUMINOUS PAVEMENT MILLING	S.Y.	17,846	
AR401910	REMOVE & REPLACE BIT. PAVEMENT	S.Y.	308	
AR402622	POROUS FRICTION COURSE, 0.10'	S.Y.	17,846	
AR510510	TIE DOWN	EA	14	
AR510900	REMOVE TIE DOWN	EA	29	
AR510905	REMOVE GROUND ROD	EA	6	
AR603510	BITUMINOUS TACK COAT	GAL.	5,355	
AR620520	PAVEMENT MARKING - WATERBORNE	S.F.	824	
AR620525	PAVEMENT MARKING - BLACK BORDER	S.F.	202	
AR751940	ADJUST INLET	EA.	2	

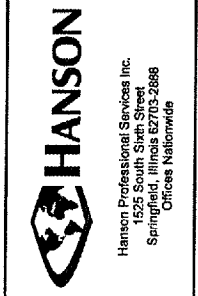
**INDEX TO SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QUANTITIES AND INDEX TO SHEETS
3	PROPOSED SAFETY PLAN
4	PROPOSED STAGING PLAN STA. 8+00 TO STA. 13+25
5	PROPOSED STAGING PLAN STA. 13+25 TO STA. 17+00
6	PROPOSED CONSTRUCTION PLAN STA. 8+00 TO STA. 13+25
7	PROPOSED CONSTRUCTION PLAN STA. 13+25 TO STA. 18+00
8	PAVEMENT PREPARATION AND CONSTRUCTION PLAN NOTES
9	EXISTING TIE DOWN LAYOUT PLAN STA. 8+00 TO STA. 13+25
10	EXISTING TIE DOWN LAYOUT PLAN STA. 13+25 TO STA. 18+00
11	PROPOSED TIE DOWN LAYOUT PLAN STA. 8+00 TO STA. 13+25
12	PROPOSED TIE DOWN LAYOUT PLAN STA. 13+25 TO STA. 18+00
13	PROPOSED APRON MARKING PLAN STA. 8+00 TO STA. 13+25
14	PROPOSED APRON MARKING PLAN STA. 13+25 TO STA. 18+00

LITCHFIELD MUNICIPAL AIRPORT  
LITCHFIELD, ILLINOIS

IL. PROJ.: 3LF-3645 A.I.P. PROJ.: 3-17-0063-B14

LEG. Project No. 814-07/APND	Drawn 02/01/07
Revision R-002ELP.DWG	Checked Z.S.H. 02/01/07
Scale NOT TO SCALE	Drawn Z.S.H. 02/01/07
Date 02/01/07	Reviewed C.A.H. 05/09/07



P.F.C. OVERLAY  
AIRCRAFT APRON  
SUMMARY OF QUANTITIES  
AND  
INDEX TO SHEETS

**SCOPE OF WORK**

THIS PROJECT CONSISTS OF CRACK CLEANING AND SEALING, REMOVE AND REPLACE BITUMINOUS PAVEMENT, APPLICATION OF A 0.10' POROUS FRICTION COURSE AND MARKING OF THE AIRPORT APRON.

**AIRPORT SECURITY NOTE**

AIRPORT SECURITY WILL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR WILL CLOSE AND LOCK THE EXISTING GATE IN THE HAUL ROUTE AT THE END OF EACH WORKING DAY.

**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 EXCAVATION BEGINS. THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) TO ACCOMPLISH THE ABOVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL UNDERGROUND NON-JULIE UTILITIES LOCATED WITHIN THE PROPOSED CONSTRUCTION LIMITS. THESE UNDERGROUND IMPROVEMENTS WILL BE LOCATED AT THE CONTRACTOR'S OWN EXPENSE PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

**HEIGHT OF CONSTRUCTION EQUIPMENT**

THE MAXIMUM ANTICIPATED HEIGHT OF THE CONSTRUCTION EQUIPMENT WILL BE 25 FEET. THE TALLEST EQUIPMENT IS EXPECTED TO BE A TRACTOR-TRAILER TRUCK.

**HAUL ROUTE AND VEHICLE PARKING**

THE CONTRACTOR WILL USE THE DESIGNATED HAUL ROUTE AND PARKING AREA AS SHOWN ON THIS SHEET. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE PROPOSED HAUL ROUTE AND PARKING AREA THROUGHOUT THE COURSE OF THE PROJECT. ANY AREAS DAMAGED OUTSIDE OF THESE AREAS WILL BE REPAIRED BY THE CONTRACTOR AND AT THE CONTRACTOR'S OWN EXPENSE. AT THE CONCLUSION OF THE PROJECT THE CONTRACTOR WILL GRADE, FERTILIZE, SEED AND MULCH THE PARKING AREA AS NEEDED TO RESTORE IT TO ITS ORIGINAL STATE. RESTORATION OF THE PARKING AREA WILL BE PAID FOR UNDER ITEM:

AR150540 "HAUL ROUTE" \_\_\_\_\_ 1 L.S.

**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.

THE CONTRACTOR SHALL KEEP ONE RUNWAY OPEN AT ALL TIMES AND MAINTAIN CONTINUOUS ACCESS TO THE FUEL FACILITY.






ALL WORK PERFORMED SHALL BE DONE IN A ORDERLY AND EFFECTIVE MANNER TO MINIMIZE RUNWAY CLOSURE.

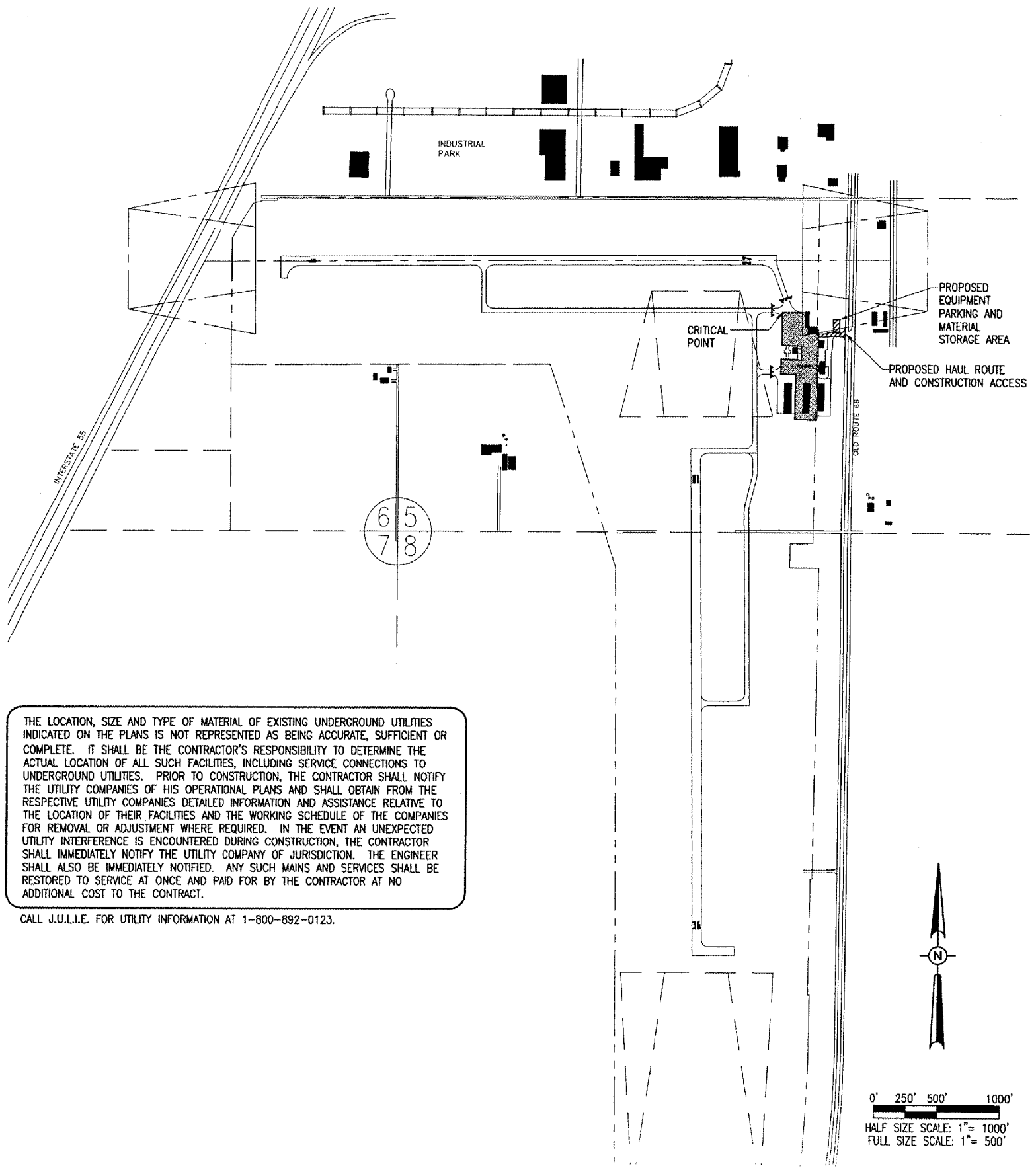
NO TRENCHES OR HOLES WILL REMAIN OPEN OVERNIGHT.

**BARRICADES AND TRAFFIC CONES**

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE AND MAINTAIN BARRICADES AND TRAFFIC CONES AS DIRECTED BY THE AIRPORT MANAGER. THE BARRICADES WILL BE EQUIPPED WITH RED FLASHING OR RED STEADY BURN LIGHTS AND 20" SQUARE ORANGE FLAGS. THE BARRICADES, THEIR MAINTENANCE, PLACEMENT AND REMOVAL WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**LEGEND**

-  EXISTING IMPROVEMENTS
-  PROPOSED IMPROVEMENTS
-  EXISTING BUILDINGS
-  PROPOSED HAUL ROUTE AND EQUIPMENT PARKING AREA
-  PROPOSED BARRICADES



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.

LI030

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

COUNTY \_\_\_\_\_ MONTGOMERY  
 CITY \_\_\_\_\_ LITCHFIELD  
 TOWNSHIP \_\_\_\_\_ SOUTH LITCHFIELD  
 SECTION NO. \_\_\_\_\_ 5 & 8  
 ADDRESS \_\_\_\_\_ LITCHFIELD MUNICIPAL AIRPORT  
 P.O. BOX 381  
 US ROUTE 66  
 LITCHFIELD, IL 62526

**CRITICAL POINT DATA**

LATITUDE: 39° 09' 58.38"  
 LONGITUDE: 89° 40' 11.91"  
 ELEVATION: 687.67 M.S.L.

**PROPOSED SAFETY PLAN**

GENERAL - THE LITCHFIELD MUNICIPAL AIRPORT IS COMPRISED OF A 3,900 FT BY 75 FT EAST-WEST (9-27) RUNWAY AND A 4,000 FT BY 75 FT NORTH-SOUTH (18-36) RUNWAY. THE PROPOSED CONSTRUCTION WILL NOT NECESSITATE CLOSING ANY OF THE RUNWAYS. THE CONTRACTOR WILL NOT BE WORKING WITHIN 200' OF THE RUNWAY CENTERLINE.

IDENTIFICATION - WHEN THE CONTRACTORS VEHICLES AND EQUIPMENT ARE ON THE AIRPORT THEY SHALL BE PROPERLY MARKED WITH THREE (3') FOOT SQUARE CHECKERED FLAGS (INTERNATIONAL ORANGE AND WHITE). THE CONTRACTOR WILL ALSO PROVIDE WORKERS WITH SOME TYPE OF TAG OR GARMENT TO IDENTIFY THE PERSON AS BEING PART OF THE CONSTRUCTION CREW.

RADIO CONTROL - THE CONTRACTOR WILL BE REQUIRED TO BE IN TWO-WAY RADIO CONTACT (122.8 MHz.) WITH THE AIRPORT UNICOM. THIS WILL KEEP THE CONTRACTOR IN CONSTANT CONTACT WITH THE LITCHFIELD MUNICIPAL AIRPORT AND ENABLE THE AIRPORT TO IMMEDIATELY CONTACT THE CONTRACTOR IN CASE OF AN AERONAUTIC EMERGENCY THAT WOULD REQUIRE ACTION BY THE CONTRACTOR AND/OR HIS PERSONNEL.

**150-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 CONFIRMED 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.

**EROSION CONTROL**

THIS PROJECT WILL DISTURB LESS THAN 1 ACRE OF LAND, THEREFORE NO N.P.D.E.S. PERMIT WILL BE REQUIRED.

DATE	REVISION

LITCHFIELD MUNICIPAL AIRPORT  
 LITCHFIELD, ILLINOIS  
 I.L. PROJ.: 3F-3645  
 A.I.P. PROJ.: 3-17-0063-814

I&L Project No. 814-07APND Filename: R-0035FY.DWG Scale: 1"= 500' Date: 02/01/07	LAYOUT DRAWN REVIEWED	Z.S.H. 02/01/07 Z.S.H. 02/01/07 C.A.H. 05/09/07
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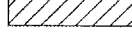

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 1525 South Sixth Street  
 Springfield, Illinois 62703-2886  
 Offices Nationwide

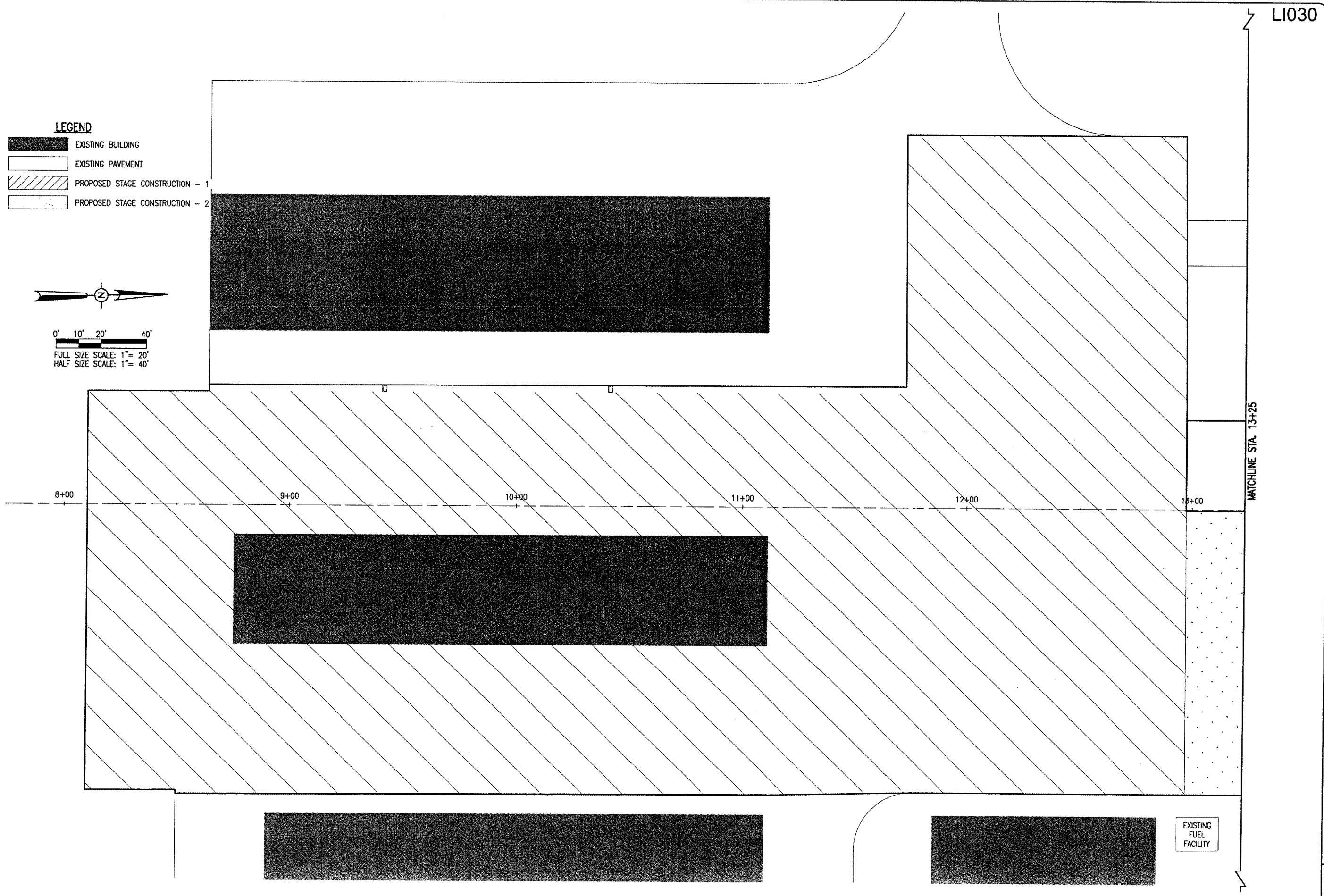
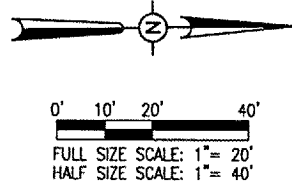
P.F.C. OVERLAY  
 AIRCRAFT APRON  
 PROPOSED  
 SAFETY  
 PLAN

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 E:\REPORTS\LITCHFIELD\B14-07APN\AIRPORT\SHEETS\STAGING PLAN.DWG - STA. 8+00 TO STA. 13+25

**LEGEND**

-  EXISTING BUILDING
-  EXISTING PAVEMENT
-  PROPOSED STAGE CONSTRUCTION - 1
-  PROPOSED STAGE CONSTRUCTION - 2



DATE	REVISION	BY

**LITCHFIELD MUNICIPAL AIRPORT  
 LITCHFIELD, ILLINOIS**

A.I.P. PROJ.: 3-17-0063-B14

NSL Project No. 814-07APND		
Phase: STAGING PLAN.DWG		
Scale: 1" = 20'		
Date: 01/31/07		
LAYOUT	ZSH	01/31/07
DRAWN	ZSH	01/31/07
REVIEWED	CAH	05/09/07

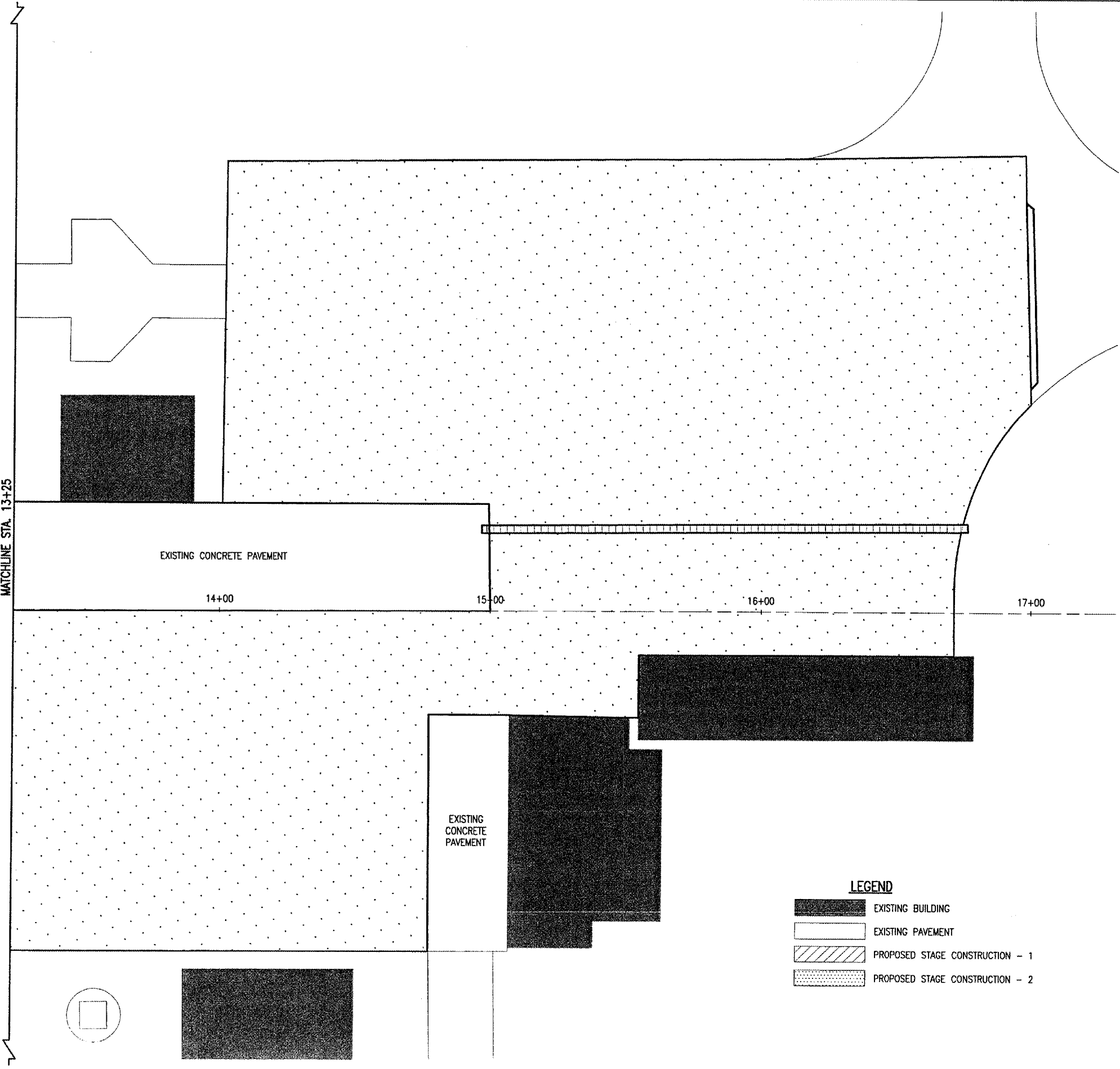


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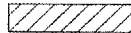
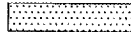
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 AIRCRAFT APRON**

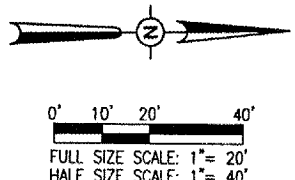
PROPOSED  
 STAGING PLAN  
 STA. 8+00 TO STA. 13+25

MATCHLINE STA. 13+25



LEGEND

-  EXISTING BUILDING
-  EXISTING PAVEMENT
-  PROPOSED STAGE CONSTRUCTION - 1
-  PROPOSED STAGE CONSTRUCTION - 2



STAGING NOTES

1. THE TWO PROPOSED STAGE CONSTRUCTION AREAS ARE SHOWN ON THIS SHEET AND SHEET NO. 4.
2. THE PURPOSE OF THE TWO STAGE CONSTRUCTION AREAS IS TO ALLOW AIRCRAFT ACCESS TO THE EXISTING FUEL FACILITY.
3. WHEN WORKING ON AN ITEM OF WORK THE CONTRACTOR WILL COMPLETE THAT ITEM OF WORK IN PROPOSED STAGE CONSTRUCTION AREA 1 BEFORE MOVING ONTO AREA 2.
4. THE CONTRACTOR WILL COMPLETE THE ITEMS OF WORK IN THE FOLLOWING ORDER:
  - a. REMOVE TIE DOWNS AND GROUND RODS
  - b. MILL THE DESIGNATED AREAS
  - c. CRACK CLEANING AND SEALING
  - d. REMOVE & REPLACE BITUMINOUS PAVEMENT
  - e. APPLICATION OF BITUMINOUS TACK COAT
  - f. APPLICATION OF POROUS FRICTION COURSE.
  - g. INSTALLATION OF TIE DOWNS
  - h. PAVEMENT MARKING
5. IN ORDER TO SPEED UP CONSTRUCTION, THE PROPOSED CRACK CLEANING AND SEALING AND REMOVE & REPLACE BITUMINOUS PAVEMENT IN CONSTRUCTION AREA 2 CAN BE DONE AT THE SAME TIME.

JUN 04, 2007 9:57 AM CAH  
C:\AIRPORTS\LITCHFIELD\B14-07APN\AIRPORT\SHEETS\STAGING\_PLAN.DWG - STA. 13+25 TO STA. 18+00

REVISION	DATE	BY

LITCHFIELD MUNICIPAL AIRPORT  
LITCHFIELD, ILLINOIS  
A.I.P. PROJ.: 3-17-0063-B14  
IL PROJ.: 3LF-3645

910 Project No. B14-07APND		01/31/07
Filename: STAGING_PLAN.DWG		01/31/07
Scale: 1"=20'		01/31/07
Date: 01/31/07		05/09/07
LAYOUT	ZSH	01/31/07
DRAWN	ZSH	01/31/07
REVIEWED	CAH	05/09/07


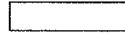
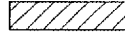
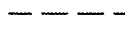
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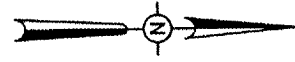
PFC OVERLAY  
AIRCRAFT APRON  
PROPOSED  
STAGING PLAN  
STA. 13+25 TO STA. 17+00

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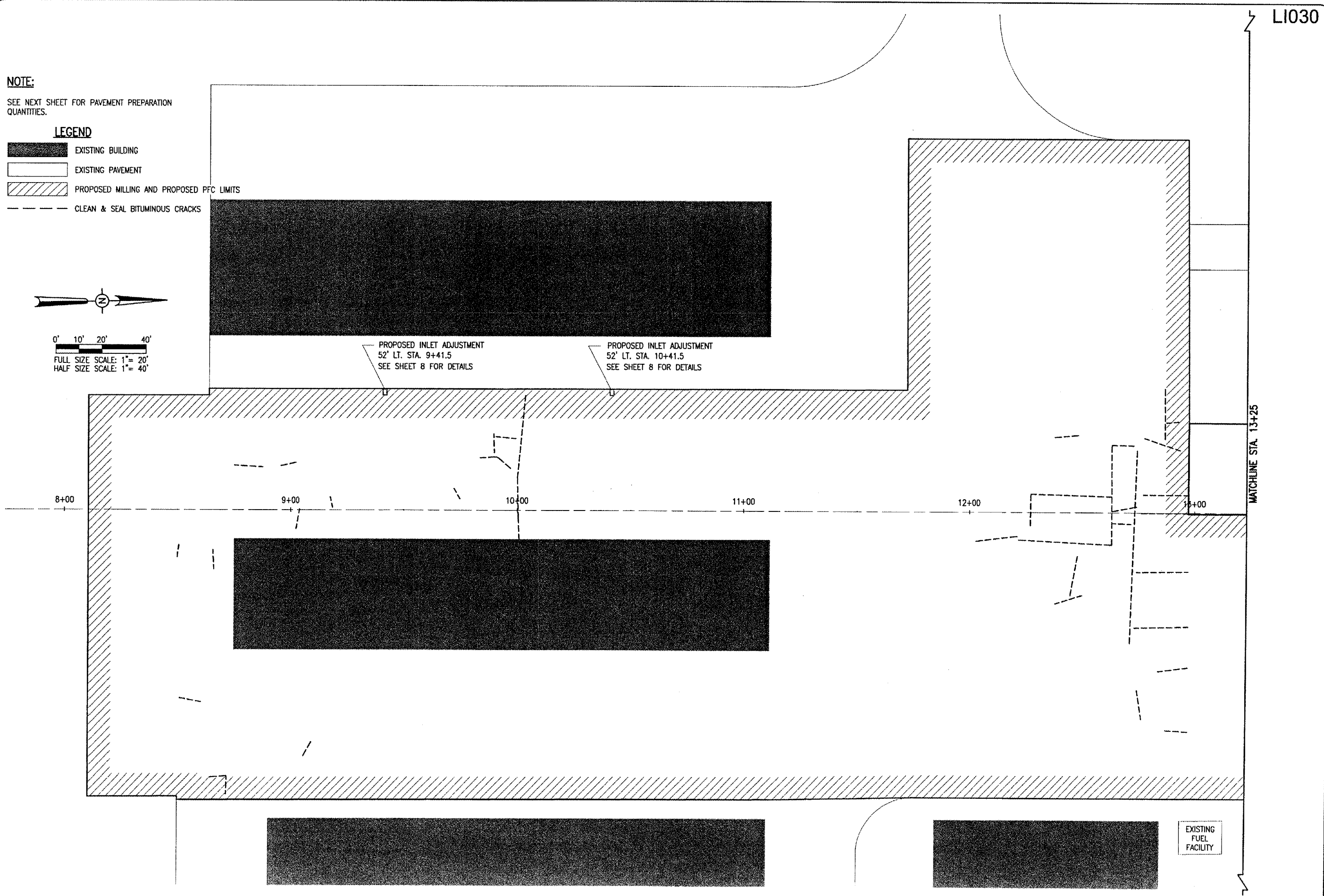
**NOTE:**  
 SEE NEXT SHEET FOR PAVEMENT PREPARATION QUANTITIES.

**LEGEND**

-  EXISTING BUILDING
-  EXISTING PAVEMENT
-  PROPOSED MILLING AND PROPOSED PFC LIMITS
-  CLEAN & SEAL BITUMINOUS CRACKS



0' 10' 20' 40'  
 FULL SIZE SCALE: 1" = 20'  
 HALF SIZE SCALE: 1" = 40'



L1030

MATCHLINE STA. 13+25

REVISION	DATE	BY

**LITCHFIELD MUNICIPAL AIRPORT  
 LITCHFIELD, ILLINOIS**

A.I.P. PROJ.: 3-17-0063-B14  
 I.L. PROJ.: 3LF-3645

H&I Project No. B14-07APND		Date: 01/31/07	
Drawing: R-121CON.DWG		Scale: 1"=20'	
LAYOUT	ZSH	01/31/07	01/31/07
DRAWN	ZSH	01/31/07	01/31/07
REVIEWED	CAH	05/09/07	05/09/07

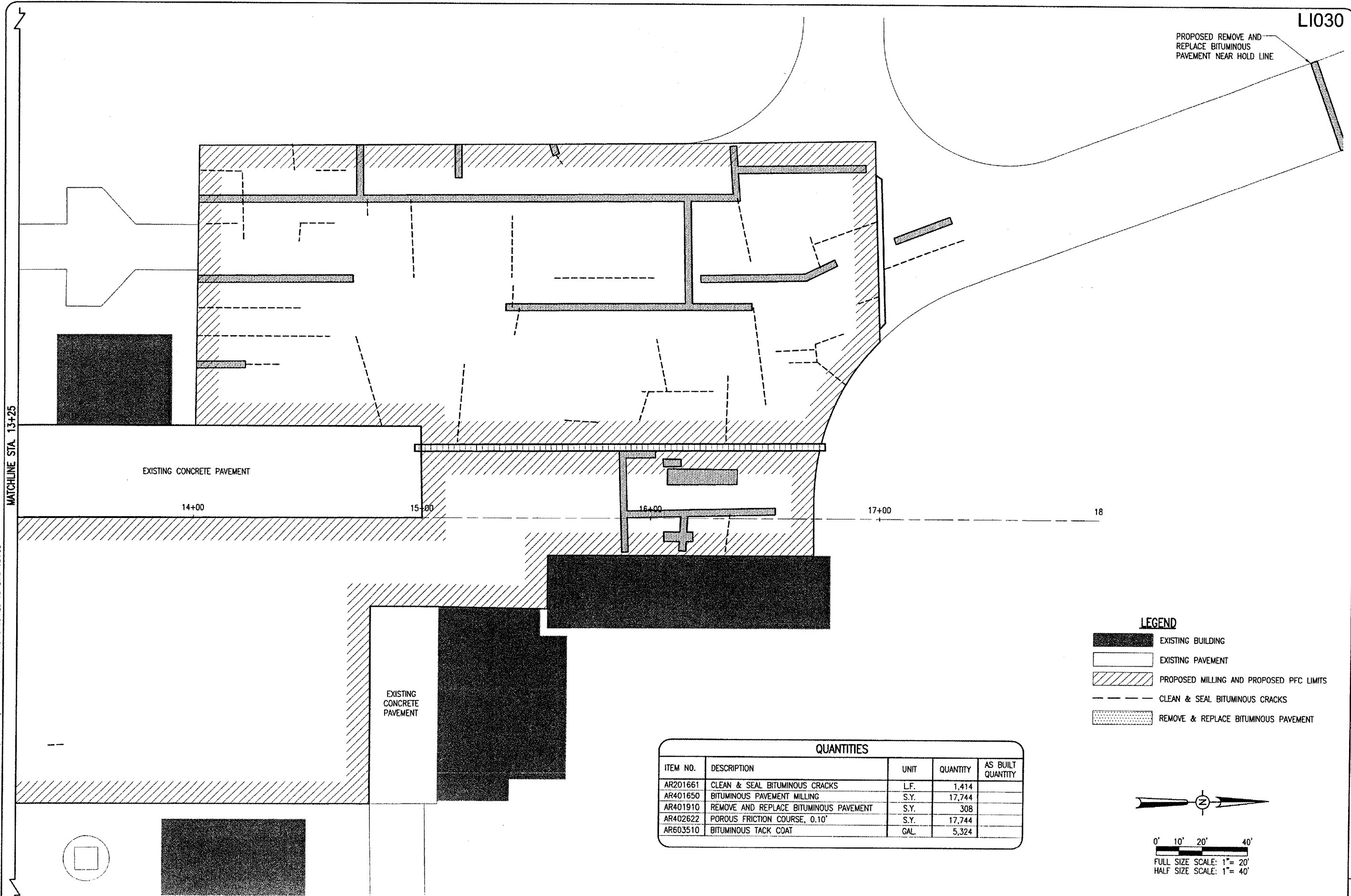
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 Springfield, Illinois 62702-2886  
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**PFC OVERLAY  
 AIRCRAFT APRON**

PROPOSED  
 CONSTRUCTION PLAN  
 STA. 8+00 TO STA. 13+25

JUN 08, 2007 9:57 AM CAH  
 \\AIRPORTS\LITCHFIELD\814-07APN\AIRPORT\SHEETS\R-121CON.DWG - STA. 13+25 TO STA. 18+00



MATCHLINE STA. 13+25

L1030

PROPOSED REMOVE AND REPLACE BITUMINOUS PAVEMENT NEAR HOLD LINE

EXISTING CONCRETE PAVEMENT

14+00

15+00

16+00

17+00

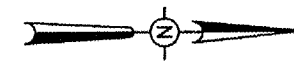
18

EXISTING CONCRETE PAVEMENT

**LEGEND**

- EXISTING BUILDING
- EXISTING PAVEMENT
- PROPOSED MILLING AND PROPOSED PFC LIMITS
- CLEAN & SEAL BITUMINOUS CRACKS
- REMOVE & REPLACE BITUMINOUS PAVEMENT

QUANTITIES				
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	AS BUILT QUANTITY
AR201661	CLEAN & SEAL BITUMINOUS CRACKS	L.F.	1,414	
AR401650	BITUMINOUS PAVEMENT MILLING	S.Y.	17,744	
AR401910	REMOVE AND REPLACE BITUMINOUS PAVEMENT	S.Y.	308	
AR402622	POROUS FRICTION COURSE, 0.10'	S.Y.	17,744	
AR603510	BITUMINOUS TACK COAT	GAL.	5,324	



0' 10' 20' 40'  
 FULL SIZE SCALE: 1" = 20'  
 HALF SIZE SCALE: 1" = 40'

DATE	REVISION	BY

LITCHFIELD MUNICIPAL AIRPORT  
 LITCHFIELD, ILLINOIS

IL PROJ.: 3LF-3645 A.I.P. PROJ.: 3-17-0063-B14

HD Project No. 814-07APND  
 Estimate R-121CON.DWG  
 Scale 1"=20'  
 Date 01/31/07

LAYOUT	ZSH	01/31/07
DRAWN	ZSH	01/31/07
REVIEWED	CAH	05/09/07

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 Springfield, Illinois 62703-2886  
 Offices Nationwide

PFC OVERLAY  
 AIRCRAFT APRON  
 PROPOSED  
 CONSTRUCTION PLAN  
 STA. 13+25 TO STA. 18+00

**GENERAL PAVEMENT PREPARATION**

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE FOLLOWING WORK ITEMS BEFORE A TACK COAT CAN BE APPLIED:

- BLADE THE EARTH AND SOD BACK FROM EDGE OF THE PAVEMENT.
- USE A PESTICIDE TO KILL ALL WEEDS ON THE EXISTING PAVEMENT SURFACE.
- ONCE THE WEEDS HAVE DIED USE A TORCH TO BURN OFF WEEDS.
- POWER BROOM THE LOOSE UNWANTED MATERIAL OFF THE PAVEMENT.
- THE ABOVE WORK WILL BE CONSIDERED INCIDENTAL TO PAY ITEM AR603510 "BITUMINOUS TACK COAT" AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**CLEANING AND SEALING BITUMINOUS CRACKS**

THE PAVEMENT CONDITIONS AND CRACKS WERE IDENTIFIED DURING A SURVEY OF THE EXISTING APRON AREA PERFORMED ON 01/05/07. THE EXACT AMOUNT OF CRACKS TO BE CLEANED AND SEALED WILL BE THE NUMBER OF LINEAR FEET OF CRACKS MARKED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

ALL CRACKS DESIGNATED BY THE RESIDENT ENGINEER FOR CLEANING AND SEALING WILL BE DONE SO AS STATED IN THE SPECIAL PROVISIONS.

THE PROPOSED PAVEMENT MILLING WILL BE ACCOMPLISHED BEFORE THE CRACKS ARE CLEANED AND SEALED. THE RESIDENT ENGINEER WILL DETERMINE IF THE CRACKS LOCATED IN A MILLED AREA ARE LARGE ENOUGH TO WARRANT CLEANING AND SEALING.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:  
AR201661 "CLEANING & SEALING BITUMINOUS CRACKS" - PER LF.

**REMOVE AND REPLACE BITUMINOUS PAVEMENT**

THE AREA(S) DESIGNATED AS [diagonal hatching] ON SHEET 7 WILL HAVE THE EXISTING BITUMINOUS PAVEMENT REMOVED (FULL DEPTH) AND REPLACED WITH BITUMINOUS SURFACE COURSE. THE BITUMINOUS SURFACE COURSE USED IN THE REPLACEMENT WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE PROPOSED REMOVAL AND REPLACEMENT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. ALL REMOVED MATERIAL WILL BE DISPOSED OF OFF THE AIRPORT SITE.

WHERE THE PROPOSED REMOVAL AND REPLACEMENT AREA ABUTS THE EXISTING PAVEMENT, THE PAVEMENT WILL BE SAWED. THE SAWING WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE PROPOSED PAVEMENT REMOVAL AND REPLACEMENT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:  
AR401910 "REMOVE AND REPLACE BITUMINOUS PAVEMENT" - PER S.Y.

**BITUMINOUS PAVEMENT MILLING**

THE AREA(S) DESIGNATED AS [diagonal hatching] ON SHEETS 7 AND 8 WILL BE CUT OR TRIMMED TO A DEPTH OF 0.10'. THE CUTTING OR TRIMMING WILL BE DONE BY ROTO-MILLING. THE TOLERANCE OF THE MILLING WILL BE AS STATED IN THE STANDARD SPECIFICATIONS.

ALL MILLED MATERIAL WILL BE DISPOSED OF ON THE AIRPORT SITE.

PRIOR TO APPLYING THE PFC OVERLAY ALL MILLED MATERIAL WILL BE BROOMED AND BLOWN CLEAN AND A BITUMINOUS TACK COAT APPLIED. THE VERTICAL FACE OF ALL SAW CUTS WILL BE PAINTED WITH A LIQUID ASPHALT.

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

ALL BITUMINOUS PAVEMENT MILLING AREAS WILL BE LOCATED AND MARKED BY THE RESIDENT ENGINEER.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:  
AR401650 "BITUMINOUS PAVEMENT MILLING" - PER S.Y.

**BITUMINOUS TACK COAT NOTES**

PRIOR TO THE PLACEMENT OF THE PROPOSED 402 "POROUS FRICTION COURSE", THE AREA TO BE OVERLAID WITH THE POROUS FRICTION COURSE WILL BE SPRAYED WITH AN APPLICATION OF A BITUMINOUS TACK COAT. AN APPLICATION RATE OF 0.3 GALLONS PER SQUARE YARD WAS USED FOR CALCULATING THE QUANTITY OF TACK COAT FOR THIS APPLICATION. THE EXACT AMOUNT OF BITUMINOUS TACK COAT TO BE USED SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:  
AR603510 "BITUMINOUS TACK COAT" - PER GAL.

**POROUS FRICTION COURSE**

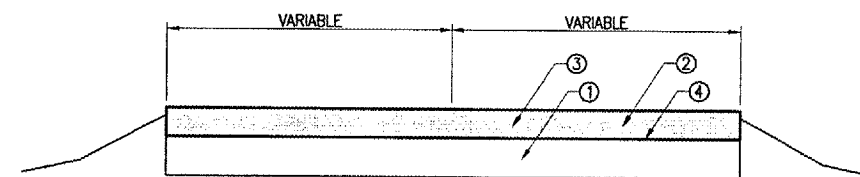
THE PROPOSED POROUS FRICTION COURSE WILL BE CONSTRUCTED IN ONE LAYER, HAVING A COMPACTED NOMINAL THICKNESS OF 0.10 FOOT.

POROUS FRICTION COURSE SHALL BE PLACED ON A CLEAN AND PREPARED SURFACE ONLY AFTER THE APPROVAL OF THE RESIDENT ENGINEER.

POROUS FRICTION COURSE WILL BE CONSTRUCTED IN THE LOCATIONS SHOWN ON THE CONSTRUCTION PLANS AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

**LEGEND - (TYPICAL SECTIONS)**

- ① EXISTING PAVEMENT
- ② PROPOSED (401650) BITUMINOUS PAVEMENT MILLING - 0.10' NOMINAL DEPTH
- ③ PROPOSED (402622) POROUS FRICTION COURSE - 0.10' NOMINAL DEPTH
- ④ PROPOSED (603510) BITUMINOUS TACK COAT



**PROPOSED TYPICAL SECTION**

"NOT TO SCALE"

**INLET ADJUSTMENT NOTES**

THE TWO INLETS DESIGNATED FOR ADJUSTMENT ARE SHOWN ON SHEET 8. THEY WILL BE ADJUSTED IN FOLLOWING MANNER.

AFTER THE PAVEMENT AROUND THE INLET HAS BEEN MILLED, THE CONTRACTOR WILL SAWCUT COMPLETELY AROUND THE INLETS AT A DISTANCE OF TWO FEET (2') AWAY FROM THE INLETS. THE SAWCUTS WILL BE FULL DEPTH. THE PAVEMENT WILL BE REMOVED AND DISPOSED OF OFF THE AIRPORT SITE.

THE CONTRACTOR WILL ADJUST THE INLET TOPS TO CONFORM TO THE EXISTING PAVEMENT SLOPES AND THEN PLACE BRICKS OR BLOCKS UNDER THE INLET TOPS TO HOLD THEM IN PLACE. CONCRETE WILL BE PLACED IN THE VOIDS BETWEEN THE BRICKS AND/OR BLOCKS TO SEAL THE VOIDS AND MAKE THE STRUCTURE WATER TIGHT.

THE SUBGRADE AROUND THE INLETS WILL BE LEVELED AND COMPACTED TO THE SATISFACTION OF THE RESIDENT ENGINEER. BITUMINOUS SURFACE COURSE WILL BE PLACED BACK INTO THE HOLE IN LIFTS NOT TO EXCEED 3". EACH LIFT WILL BE COMPACTED BY USE OF A VIBRATORY PLATE. COMPACTON WILL BE TO THE SATISFACTION OF THE RESIDENT ENGINEER. THE FINAL LIFT WILL BE COMPACTED BY USING A VIBRATORY ROLLER.

THE SAWING, PAVEMENT REMOVAL, ADJUSTMENT OF THE INLETS, BRICKING/BLOCKING, CEMENTING, LEVELING AND COMPACTING OF THE SUBGRADE AND REPLACEMENT OF THE BITUMINOUS PAVEMENT WILL ALL BE CONSIDERED AS PART OF THE PROPOSED INLET ADJUSTMENT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

PAYMENT WILL MADE UNDER:

AR751940 ASDJUST INLET \_\_\_\_ EACH.

DATE	REVISION	BY

**LITCHFIELD MUNICIPAL AIRPORT  
LITCHFIELD, ILLINOIS**

IL PROJ.: 3-17-0063-B14  
A.I.P. PROJ.: 3F-3645

HANSON Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62703-2885 Offices Nationwide	HANSON Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62703-2885 Offices Nationwide
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HANSON Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62703-2885 Offices Nationwide	HANSON Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62703-2885 Offices Nationwide
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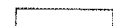
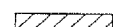


**PFC OVERLAY  
AIRCRAFT APRON**  
  
**PAVEMENT PREPARATION  
AND CONSTRUCTION  
PLAN NOTES**

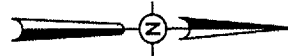
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**LEGEND**

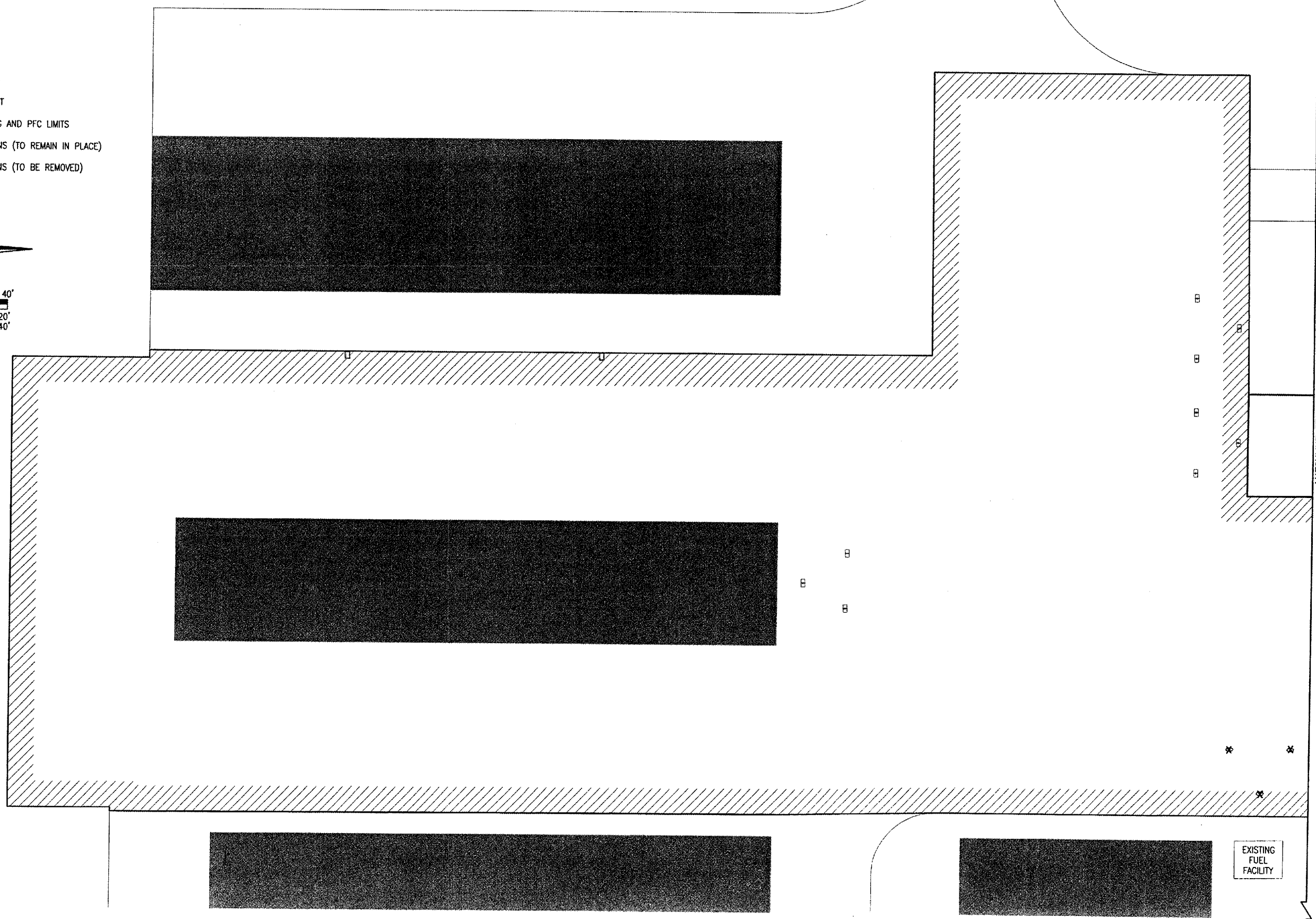
-  EXISTING BUILDING
-  EXISTING PAVEMENT
-  PROPOSED MILLING AND PFC LIMITS
-  EXISTING TIE DOWNS (TO REMAIN IN PLACE)
-  EXISTING TIE DOWNS (TO BE REMOVED)



0' 10' 20' 40'  
 FULL SIZE SCALE: 1" = 20'  
 HALF SIZE SCALE: 1" = 40'

8+00 9+00 10+00 11+00 12+00 13+00

LI030



MATCHLINE STA. 13+25

DATE	REVISION	BY

LITCHFIELD MUNICIPAL AIRPORT  
 LITCHFIELD, ILLINOIS

IL PROJ.: 3JF-3645 A.I.P. PROJ.: 3-17-0063-B14

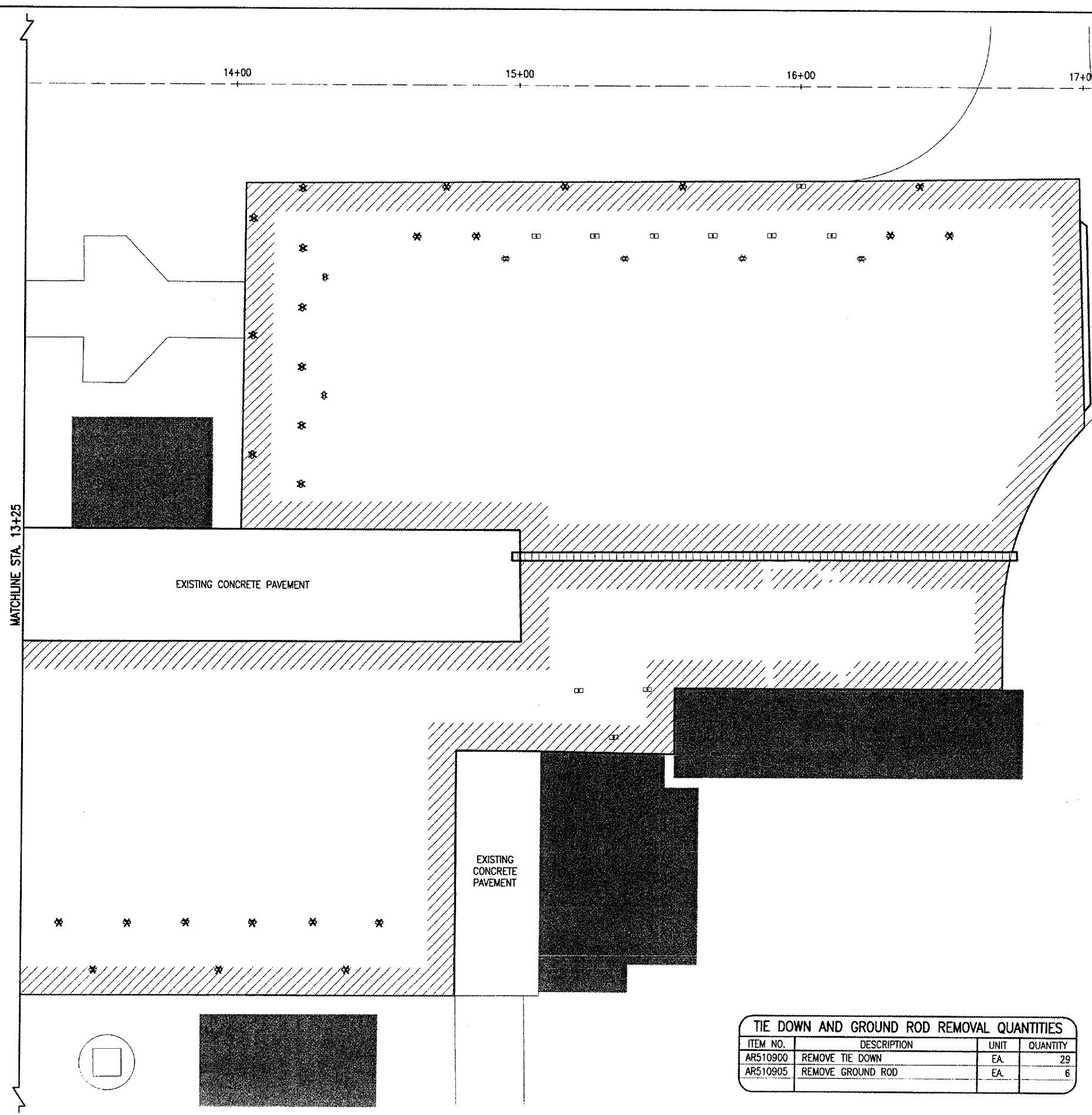
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Estimate R-122CON.DWG		
Scale 1"=20'		
Date 01/31/07		
LAYOUT	ZSH	01/31/07
DRAWN	ZSH	01/31/07
REVIEWED	CAH	05/09/07

**HANSON**

Hanson Professional Services Inc.  
 1125 South Sixth Street  
 Springfield, IL 62761-2886  
 Office: 618-286-2886

PFC OVERLAY  
 AIRCRAFT APRON

EXISTING  
 TIE DOWN LAYOUT PLAN  
 STA. 8+00 TO STA. 13+25



**GROUND ROD REMOVAL NOTES**

LI030

THE EXISTING GROUND RODS DESIGNATED TO BE REMOVED WILL BE REMOVED AND DISPOSED OF OFF THE AIRPORT SITE.

IF THE CONTRACTOR CAN NOT PULL THE GROUND RODS OUT THEN HE WILL USE A 4" CORE DRILL TO REMOVE THE PAVEMENT AROUND THE GROUND RODS THUS MAKING IT EASIER TO REMOVE THE GROUND RODS. REMOVAL OF THE GROUND RODS WILL NOT CAUSE ANY DISPLACEMENT OF THE SURROUNDING PAVEMENT. ANY DISPLACEMENT WILL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE RESIDENT ENGINEER.

IF A 4" CORE DRILL IS USED IN REMOVING THE GROUND RODS, THEN THE HOLES WILL BE BACKFILLED WITH SAND. IF A LARGER DIAMETER CORE DRILL IS USED, THEN THE HOLES WILL BE FILLED WITH SAND TO A DEPTH OF 8" FROM THE EXISTING FINISHED GRADE AND THE REMAINING DEPTH FILLED WITH BITUMINOUS SURFACE COURSE.

ALL REMOVED MATERIAL WILL BE DISPOSED OF OFF THE AIRPORT SITE.

ALL MATERIAL IN BACKFILLING THE HOLE WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE REMOVAL OF THE GROUND ROD AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE REMOVAL AND DISPOSAL OF THE GROUND RODS AND FILLING OF THE HOLES WITH SAND AND BITUMINOUS WILL BE PAID FOR UNDER ITEM:  
 AR510905 "REMOVE GROUND ROD" PER EA.

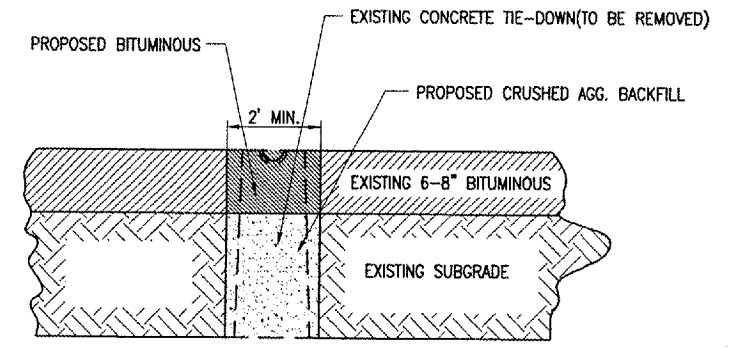
**TIE DOWN REMOVAL NOTES**

THE EXISTING TIE DOWNS DESIGNATED TO BE REMOVED WILL BE REMOVED AND DISPOSED OF OFF THE AIRPORT SITE.

THE CONTRACTOR WILL SEPARATE THE TIE DOWNS TO BE REMOVED FROM THE SURROUNDING PAVEMENT PRIOR TO PULLING THE TIE DOWN OUT. REMOVAL OF THE TIE DOWN WILL NOT CAUSE ANY DISPLACEMENT OF THE SURROUNDING PAVEMENT. ANY DISPLACEMENT WILL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE RESIDENT ENGINEER.

THE CONTRACTOR WILL FILL THE HOLE WITH CA-16 TO A DEPTH OF 8" FROM THE EXISTING FINISHED GRADE. THE REMAINING DEPTH WILL BE FILLED WITH BITUMINOUS SURFACE COURSE.

THE REMOVAL AND DISPOSAL OF THE TIE DOWNS AND FILLING OF THE HOLES WITH CA-16 AND BITUMINOUS WILL BE PAID FOR UNDER ITEM:  
 AR510900 "REMOVE TIE DOWN" PER EA.

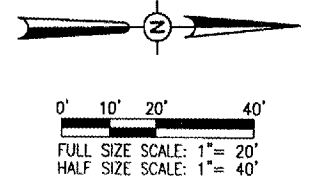


**TIE DOWN REMOVAL DETAIL**

TIE DOWN AND GROUND ROD REMOVAL QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR510900	REMOVE TIE DOWN	EA.	29
AR510905	REMOVE GROUND ROD	EA.	6

**LEGEND**

- EXISTING BUILDING
- EXISTING PAVEMENT
- PROPOSED MILLING AND PFC LIMITS
- EXISTING TIE DOWNS (TO REMAIN IN PLACE)
- EXISTING TIE DOWNS (TO BE REMOVED)
- EXISTING GROUND ROD (TO BE REMOVED)



BY		REVISION		DATE	
<p><b>LITCHFIELD MUNICIPAL AIRPORT</b>                  LITCHFIELD, ILLINOIS</p> <p style="font-size: small;">IL PROJ.: 31F-3645 A.I.P. PROJ.: 3-17-0063-B14</p>					
I.E. Project No. 814-07APND Elevation R-122CON.DWG Scale 1" = 20' Date 01/31/07	LAYOUT ZSH 01/31/07 DRAWN ZSH 01/31/07 REVIEWED CAH 05/09/07	<p style="font-size: x-small;">Hanson Professional Services Inc.                  1525 South Sixth Street                  Springfield, Illinois 62703-2888                  Offices Nationwide</p>			
<p><b>PFC OVERLAY</b>                  AIRCRAFT APRON</p>		<p><b>EXISTING</b>                  TIE DOWN LAYOUT PLAN                  STA. 13+25 TO STA. 18+00</p>			
10					
10 of 14 sheets					

JUN 08, 2007 9:58 AM CAH  
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8+00

9+00

10+00


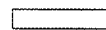


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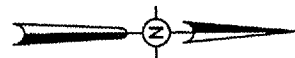
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13+00

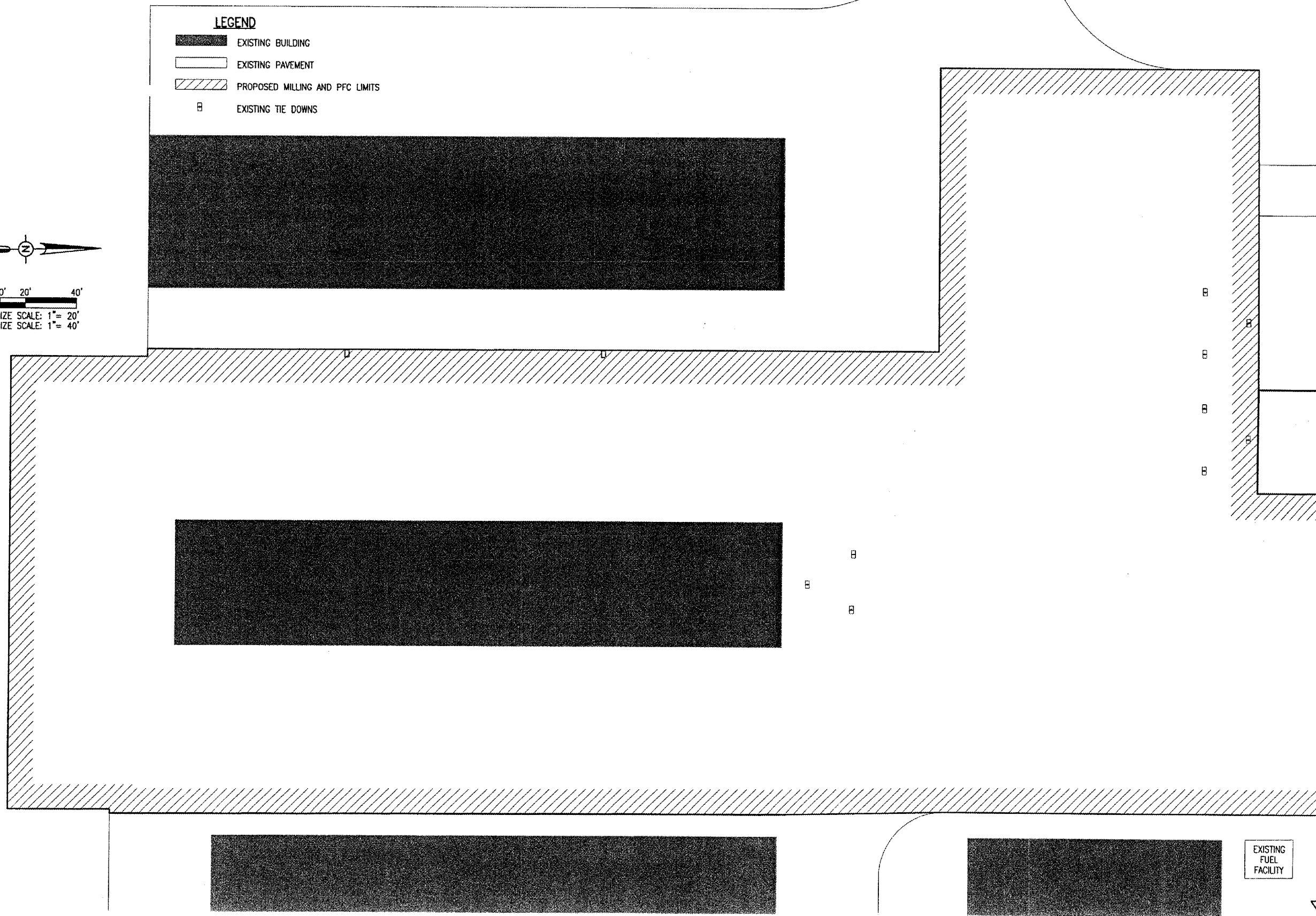
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**LEGEND**

-  EXISTING BUILDING
-  EXISTING PAVEMENT
-  PROPOSED MILLING AND PFC LIMITS
-  EXISTING TIE DOWNS



0' 10' 20' 40'  
 FULL SIZE SCALE: 1" = 20'  
 HALF SIZE SCALE: 1" = 40'



MATCHLINE STA. 13+25

EXISTING FUEL FACILITY

DATE	REVISION	BY

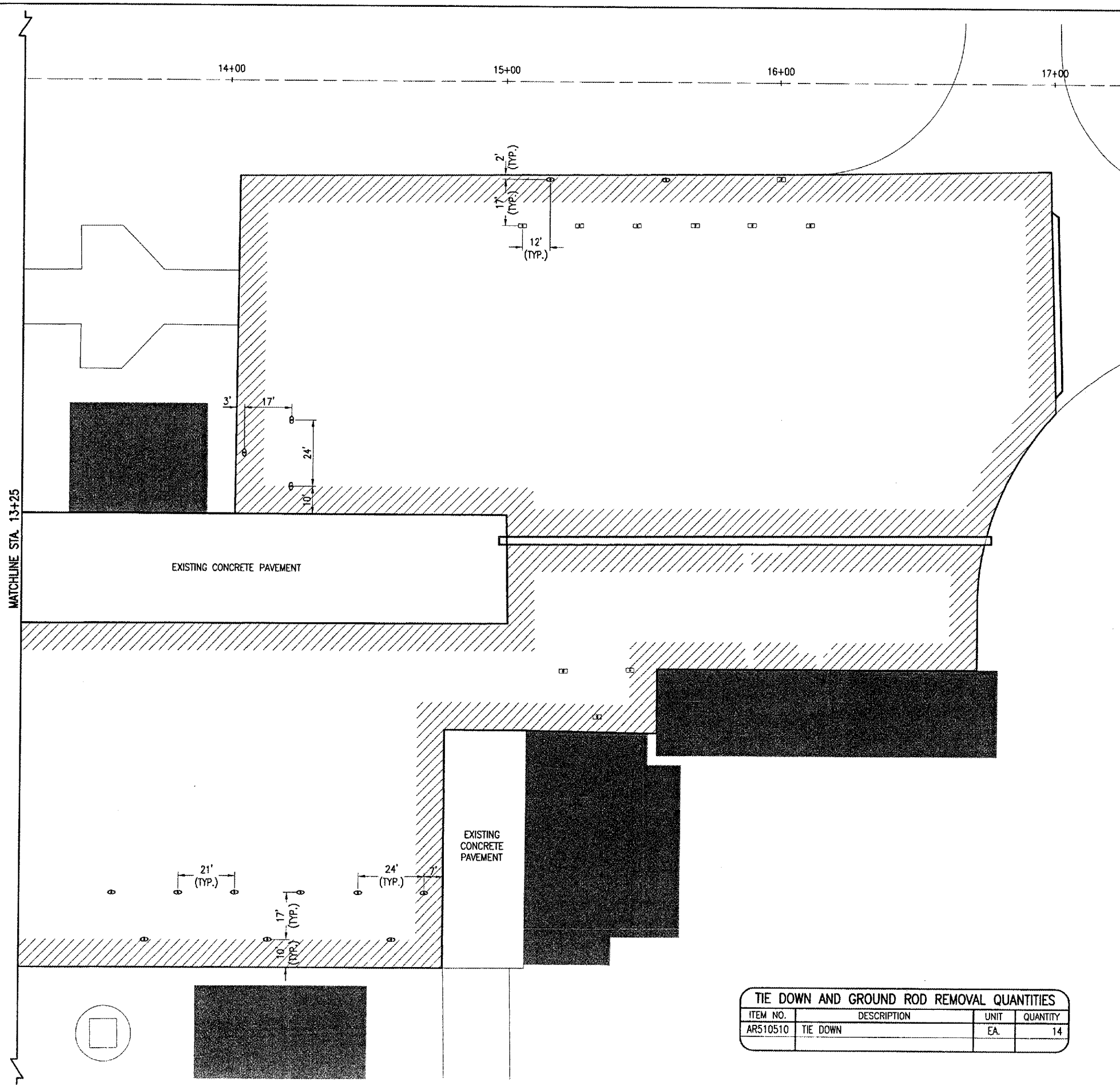
LITCHFIELD MUNICIPAL AIRPORT  
 LITCHFIELD, ILLINOIS  
 I.L. PROJ.: 3LF-3645 A.I.P. PROJ.: 3-17-0083-B14

H.L. Project No. B14-07APND		
Filename: R-123CON.DWG		
Scale: 1" = 20'	Date: 01/31/07	
LAYOUT	ZSH	01/31/07
DRAWN	ZSH	01/31/07
REVIEWED	CAH	05/09/07

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

PFC OVERLAY  
 AIRCRAFT APRON  
 PROPOSED  
 TIE DOWN LAYOUT PLAN  
 STA. 8+00 TO STA. 13+25

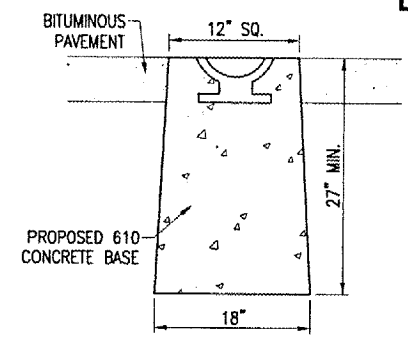
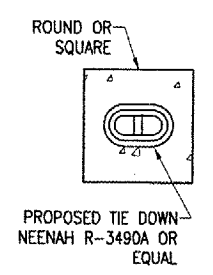
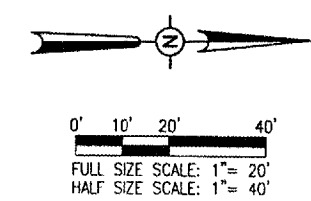
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MATCHLINE STA. 13+25

TIE DOWN AND GROUND ROD REMOVAL QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR510510	TIE DOWN	EA.	14

- LEGEND**
- EXISTING BUILDING
  - EXISTING PAVEMENT
  - PROPOSED MILLING AND PFC LIMITS
  - EXISTING TIE DOWNS
  - PROPOSED TIE DOWNS



**TIE DOWN DETAIL**  
 "NOT TO SCALE"

**TIE DOWN NOTES**

- NEW TIE DOWNS WILL BE INSTALLED IN ACCORDANCE WITH THE TIE DOWN DETAIL AT THE LOCATIONS SHOWN ON THIS SHEET.
- THE PERIMETER OF EACH PROPOSED TIE DOWN SHALL BE SAWED.
- TIE DOWN CASTINGS SHALL BE NEENAH R-3490A OR EQUAL.
- CONCRETE SHALL MEET THE REQUIREMENTS OF 610 - STRUCTURAL CONCRETE.
- THE TIE DOWNS WILL BE PAID FOR UNDER ITEM:  
 AR510510 "TIE DOWN" \_\_\_\_\_ PER EA.

LI030

DATE	REVISION	BY

LITCHFIELD MUNICIPAL AIRPORT  
 LITCHFIELD, ILLINOIS  
 A.I.P. PROJ.: 3-17-0063-B14  
 IL PROJ.: 3F-3645

REV. PROJECT NO. B14-07APND		
DESIGNER R-123CON.DWG		
SCALE 1"=20'		
DATE 01/31/07		
LAYOUT ZSH	01/31/07	
DRAWN ZSH	01/31/07	
REVIEWED CAH	05/09/07	

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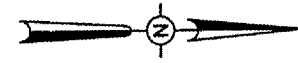
PFC OVERLAY  
 AIRCRAFT APRON  
 PROPOSED  
 TIE DOWN LAYOUT PLAN  
 STA. 13+25 TO STA. 18+00

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**NOTE:**  
SEE NEXT SHEET FOR MARKING QUANTITIES.

**LEGEND**

- EXISTING BUILDING
- EXISTING PAVEMENT
- PROPOSED MARKING
- TIE DOWN



0' 10' 20' 40'  
 FULL SIZE SCALE: 1" = 20'  
 HALF SIZE SCALE: 1" = 40'

8+00

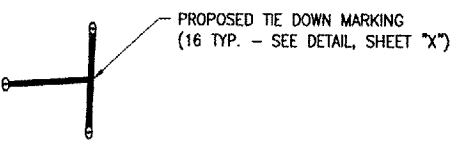
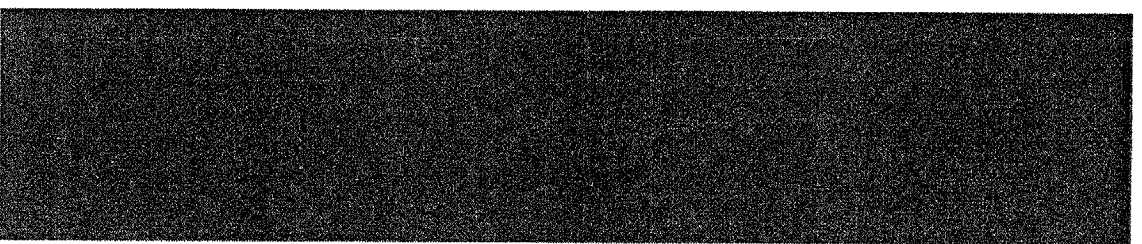
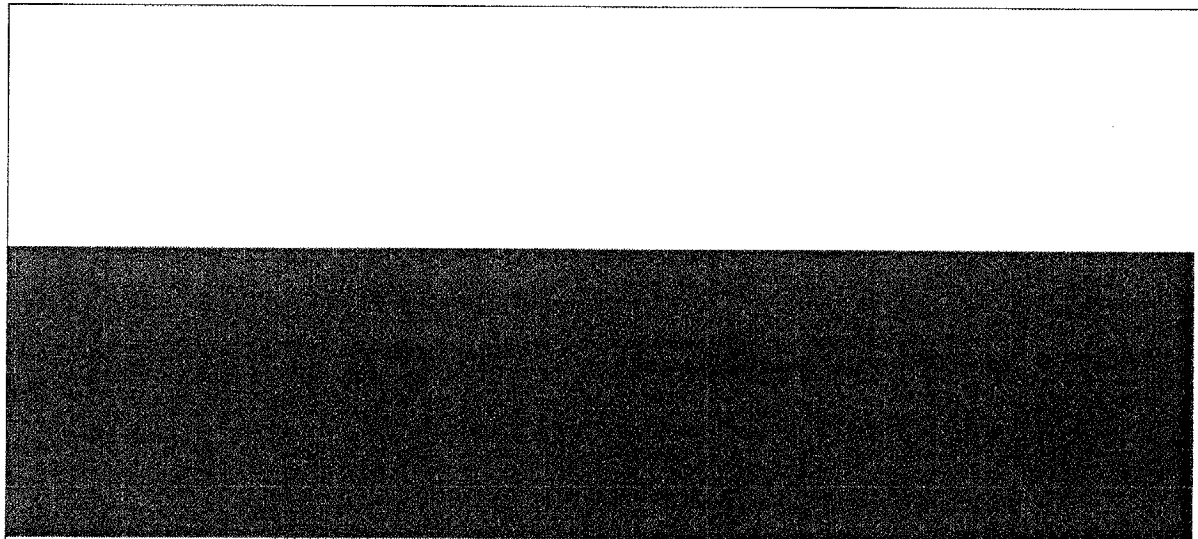
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13+00

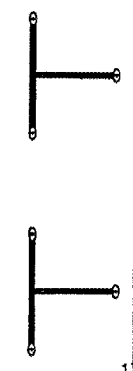


116 L.F. @ 72.5' R

PROPOSED  $\phi$  MARKING  
1" WIDTH (YELLOW) W/  
6" BLACK BORDER

25'

58'



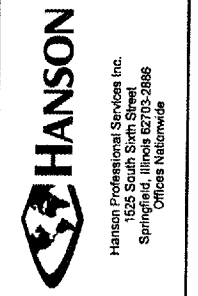
MATCHLINE STA. 13+25

L1030

DATE	REVISION	BY

**LITCHFIELD MUNICIPAL AIRPORT**  
**LITCHFIELD, ILLINOIS**  
 I.L. PROJ.: 3LF-3645      A.I.P. PROJ.: 3-17-0063-B14

IEL Project No. 814-07APND Drawing R-151MRK.DWG Scale 1"=20' Date 01/31/07	LAYOUT ZSH 01/31/07 DRAWN ZSH 01/31/07 REVIEWED CAH 05/09/07
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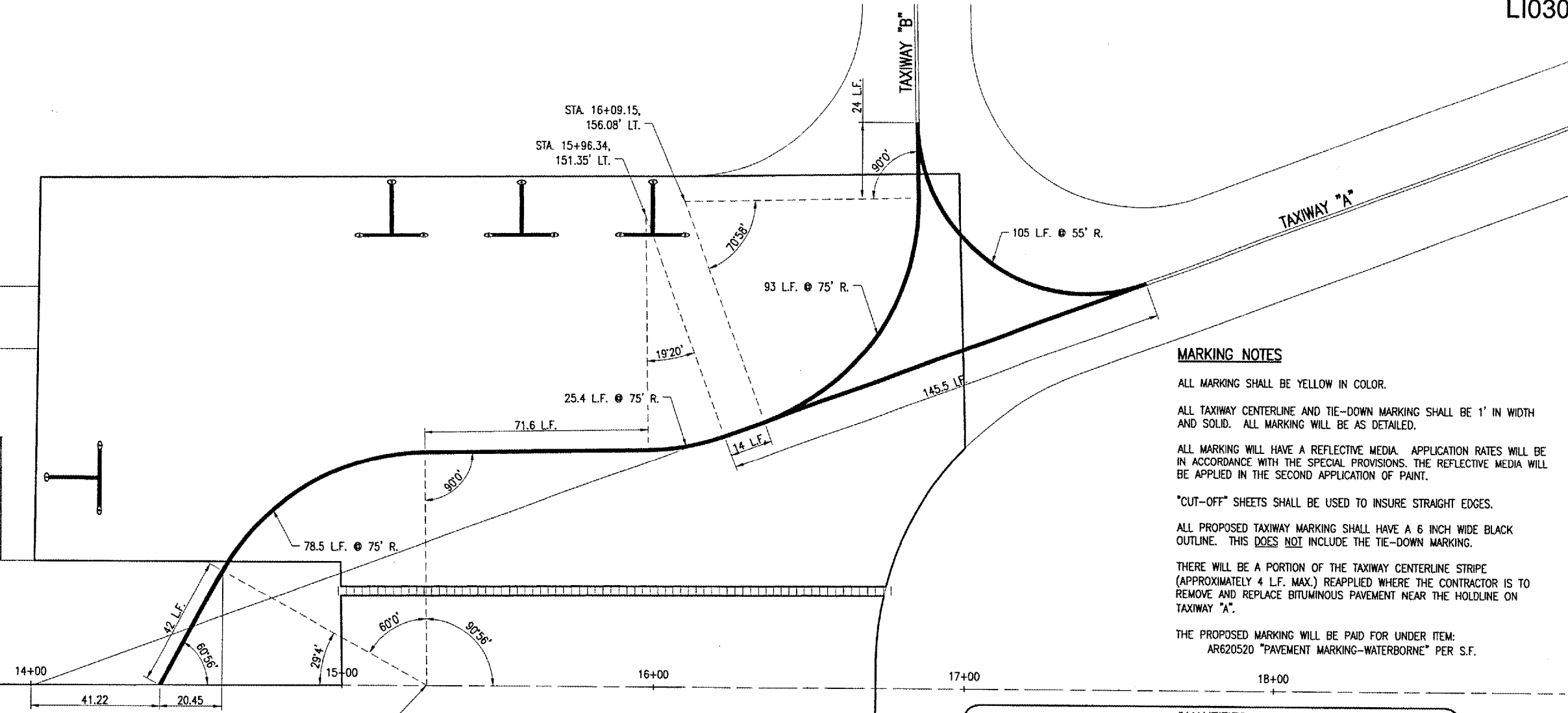


**PFC OVERLAY**  
**AIRCRAFT APRON**  
**PROPOSED APRON**  
**MARKING PLAN**  
 STA. 8+00 TO STA. 13+25

JAN 08, 2007 9:59 AM CAH  
 LITCHFIELD MUNICIPAL AIRPORT SHEETS\151MARK.DWG - STA. 13+25 TO STA. 18+00

MATCHLINE STA. 13+25

LI030



**MARKING NOTES**

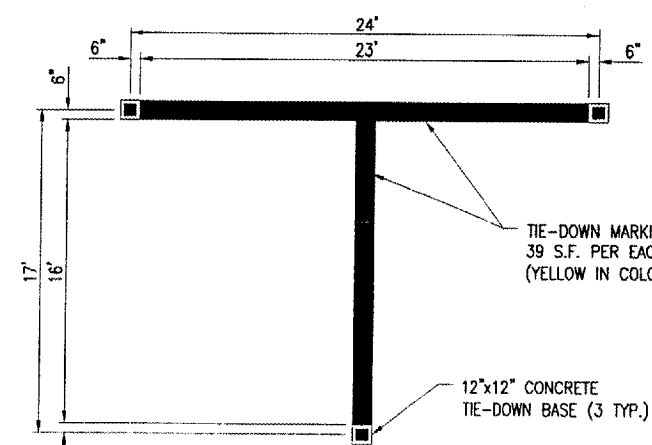
ALL MARKING SHALL BE YELLOW IN COLOR.  
 ALL TAXIWAY CENTERLINE AND TIE-DOWN MARKING SHALL BE 1' IN WIDTH AND SOLID. ALL MARKING WILL BE AS DETAILED.  
 ALL MARKING WILL HAVE A REFLECTIVE MEDIA. APPLICATION RATES WILL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE REFLECTIVE MEDIA WILL BE APPLIED IN THE SECOND APPLICATION OF PAINT.  
 \*CUT-OFF\* SHEETS SHALL BE USED TO INSURE STRAIGHT EDGES.  
 ALL PROPOSED TAXIWAY MARKING SHALL HAVE A 6 INCH WIDE BLACK OUTLINE. THIS DOES NOT INCLUDE THE TIE-DOWN MARKING.  
 THERE WILL BE A PORTION OF THE TAXIWAY CENTERLINE STRIPE (APPROXIMATELY 4 L.F. MAX.) REAPPLIED WHERE THE CONTRACTOR IS TO REMOVE AND REPLACE BITUMINOUS PAVEMENT NEAR THE HOLDLINE ON TAXIWAY "A".  
 THE PROPOSED MARKING WILL BE PAID FOR UNDER ITEM:  
 AR620520 "PAVEMENT MARKING-WATERBORNE" PER S.F.

**QUANTITIES**

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	AS BUILT QUANTITY
AR620520	PAVEMENT MARKING-WATERBORNE	S.F.	1,409	
AR620525	PAVEMENT MARKING-BLACK BORDER	S.F.	787	

**LEGEND**

- EXISTING BUILDING
- EXISTING PAVEMENT
- EXISTING MARKING
- PROPOSED MARKING
- TIE DOWN



**TIE DOWN MARKING DETAIL**  
"NOT TO SCALE"



0' 10' 20' 40'  
 FULL SIZE SCALE: 1" = 20'  
 HALF SIZE SCALE: 1" = 40'

REVISION	DATE	BY

LITCHFIELD MUNICIPAL AIRPORT  
 LITCHFIELD, ILLINOIS

I.L. PROJ.: 31F-3645 A.I.P. PROJ.: 3-17-0063-814

H.S. Project No. 814-07APND Drawn: R-151MRK.DWG Scale: 1"=20' Date: 01/31/07	LAYOUT ZSH 01/31/07 DRAWN ZSH 01/31/07 REVIEWED CAH 05/09/07
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PFC OVERLAY AIRCRAFT APRON  
 PROPOSED APRON MARKING PLAN  
 STA. 13+25 TO STA. 18+00