

CONSTRUCTION PLANS FOR LOGAN COUNTY AIRPORT LINCOLN, LOGAN COUNTY, ILLINOIS CONSTRUCT T-HANGAR SITE

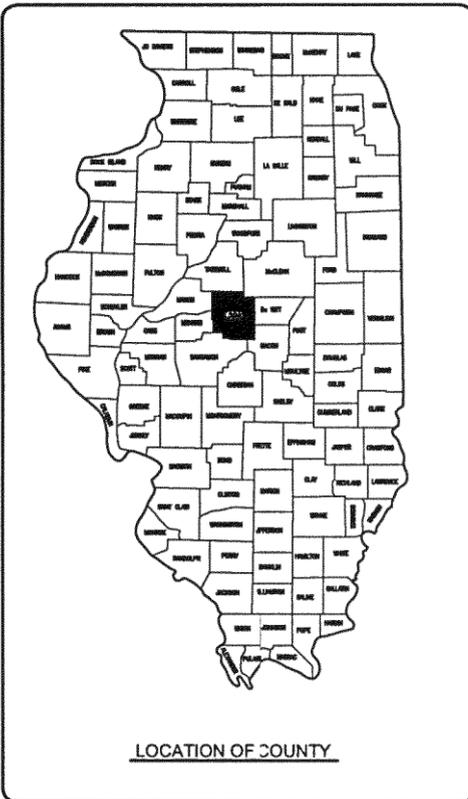
SCOPE OF WORK

THIS PROJECT CONSISTS OF CONSTRUCTING A T-HANGAR SITE FOR A NEW T-HANGAR. PROJECT INCLUDES HANGAR DEMOLITION, DRAINAGE, UNCLASSIFIED EXCAVATION, 6" PCC PAVEMENT, PAVEMENT MARKING, SEEDING AND MULCHING.



LOCATION

ILL. PROJ.: AAA-4033
A.I.P. PROJ.: 3-17-0062-B17
LATITUDE: 40° 09' 31"
LONGITUDE: 89° 20' 06"
ELEVATION: 597.0' M.S.L.
DATE: OCT. 29, 2010



LOCATION OF COUNTY



REVISED 01/25/11



Submitted by: *Charles A. Hagloch* ENG'R
Date Submitted: JANUARY 26, 2011
Lic. Exp. Date: NOVEMBER 30, 2011

LOGAN COUNTY BOARD

Approved: *Robert D. Fanner* CHAIRMAN
Date: 1-3-11
Approved: *Patricia Meigh* SECRETARY
Date: 1-3-11

DATE	REVISION	BY

LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS
ILL. PROJ.: AAA-4033
A.I.P. PROJ.: 3-17-0062-B17

LAYOUT	BAK	06/04/10



CONSTRUCT
T-HANGAR SITE
COVER SHEET

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DATE	REVISION	BY
01/25/11	Revised as per IDA review	CAH

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITIES	AS BUILT QUANTITIES
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1	
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	100	
AR152440	BORROW EXCAVATION	C.Y.	500	
AR209510	CRUSHED AGGREGATE BASE COURSE	TON	35	
AR501506	6" PCC PAVEMENT	S.Y.	124	
AR501900	REMOVE PCC PAVEMENT	S.Y.	51	
AR620520	PAVEMENT MARKING - WATERBORNE	S.F.	346	
AR620900	PAVEMENT MARKING REMOVAL	S.F.	50	
AR701008	8" PVC STORM SEWER	L.F.	251	
AR701012	12" PVC STORM SEWER	L.F.	100	
AR701015	15" PVC STORM SEWER	L.F.	39	
AR701900	REMOVE PIPE	L.F.	119	
AR751411	INLET - TYPE A	EACH	6	
AR751414	INLET - TYPE D	EACH	2	
AR751530	MANHOLE	EACH	1	
AR751900	REMOVE INLET	EACH	2	
AR901510	SEEDING	ACRE	0.4	
AR908510	MULCHING	ACRE	0.4	
AR800523	HANGAR DEMOLITION	L.S.	1	

INDEX TO SHEETS

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1	COVER SHEET
2	SUMMARY OF QUANTITIES AND INDEX TO SHEETS
3	PROPOSED SAFETY PLAN
4	EXISTING SITE PLAN
5	PROPOSED SITE PLAN
6	PROPOSED DRAINAGE PLAN
7	PROPOSED GRADING PLAN
8	PROPOSED CROSS SECTIONS STA. 5+60
9	PROPOSED CROSS SECTIONS STA. 5+76
10	PROPOSED CROSS SECTIONS STA. 5+93
11	PROPOSED CROSS SECTIONS STA. 6+14
12	PROPOSED CROSS SECTIONS STA. 6+35
13	PROPOSED CROSS SECTIONS STA. 6+56
14	PROPOSED CROSS SECTIONS STA. 6+77
15	PROPOSED CROSS SECTIONS STA. 6+98
16	PROPOSED CROSS SECTIONS STA. 7+19
17	PROPOSED CROSS SECTIONS STA. 7+34
18	PROPOSED CROSS SECTIONS STA. 7+48
19	MAHOLE TYPE A, IDOT STANDARD 602401-02

LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS

Hanson Project No. 10A0081D_0800	BAK	06/04/10
Filename R-002FLP.DWG	BAK	06/04/10
Scale NOT TO SCALE	CAH	10/22/10
Date xx/xx/xx		
LAYOUT		
DRAWN		
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CONSTRUCT
T-HANGAR SITE

SUMMARY OF QUANTITIES
AND INDEX TO SHEETS

UTILITY NOTE

THE LOCATION, SIZE, AND TYPE OF MATERIAL OF EXISTING UNDERGROUND AND/OR ABOVEGROUND UTILITIES INDICATED ON THE PLANS ARE NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION. 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 OWNER'S REPRESENTATIVE AND/OR THE RESIDENT ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY DAMAGE TO SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. ALL UTILITY CABLES AND LINES SHALL BE LOCATED BY THE RESPECTIVE UTILITY. **CONTACT JULIE (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS) FOR UTILITY INFORMATION, PHONE: 1-800-892-0123.** CONTACT THE FAA (FEDERAL AVIATION ADMINISTRATION) FOR ASSISTANCE IN LOCATING FAA CABLES AND UTILITIES. LOCATION OF FAA POWER, CONTROL, AND COMMUNICATION CABLES SHALL BE COORDINATED WITH AND/OR LOCATED BY THE FAA. ALSO CONTACT AIRPORT DIRECTOR/MANAGER AND AIRPORT PERSONNEL FOR ASSISTANCE IN LOCATING UNDERGROUND AIRPORT CABLES AND/OR UTILITIES. ALSO COORDINATE WORK WITH ALL ABOVEGROUND UTILITIES.

HAUL ROUTE AND VEHICLE PARKING

THE CONTRACTOR WILL USE THE DESIGNATED HAUL ROUTE AS SHOWN ON THIS SHEET. PRIOR TO THE START OF THIS PROJECT THE CONTRACTOR AND THE RESIDENT ENGINEER WILL WALK THE PROPOSED HAUL ROUTE AND NOTE ANY PAVEMENT DEFICIENCIES. THE PROPOSED PARKING AREA WILL BE LOCATED WITH IN THE LIMITS OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE PROPOSED HAUL ROUTE 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 REPAIR ANY PAVEMENT DEFICIENCIES THAT WERE NOT NOTED AT THE START OF THE PROPOSED CONSTRUCTION. RESTORATION OF THE HAUL ROUTE WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

CONTRACTOR RESPONSIBILITIES

THE CONTRACTOR'S EQUIPMENT PARKING AND STORAGE AREA WILL BE WITHIN THE LIMITS OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR'S EMPLOYEES WILL PARK THEIR VEHICLES IN THE EXISTING AIRPORT AUTO PARKING LOT. 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 MAINTAIN CONTINUOUS TAXIWAY ACCESS TO ALL HANGARS AND ADMINISTRATIVE AREAS.

ALL WORK PERFORMED SHALL BE DONE IN A ORDERLY AND EFFECTIVE MANNER.

NO TRENCHES OR HOLES WILL REMAIN OPEN OVERNIGHT WITHOUT BARRICADES.

LEGEND

-  EXISTING IMPROVEMENTS
-  PROPOSED IMPROVEMENTS
-  EXISTING BUILDINGS
-  PROPOSED HAUL ROUTE AND EQUIPMENT PARKING AREA
-  PROPOSED BENCHMARK
-  PROPOSED BARRICADES OR TRAFFIC CONES

SCOPE OF WORK

THIS PROJECT CONSISTS OF CONSTRUCTING A T-HANGAR SITE FOR A NEW T-HANGAR. PROJECT INCLUDES HANGAR DEMOLITION, UNCLASSIFIED EXCAVATION, 6" PCC PAVEMENT, PAVEMENT MARKING, SEEDING AND MULCHING.

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.

HEIGHT OF CONSTRUCTION EQUIPMENT

THE MAXIMUM ANTICIPATED HEIGHT OF THE CONSTRUCTION EQUIPMENT WILL BE 25 FEET. THE TALLEST EQUIPMENT IS EXPECTED TO BE A SEMI-TRUCK W/BED EXTENDED.

BENCHMARK DATA

NO.	DESCRIPTION	NORTHING	EASTING	ELEV.
1	NGS BRASS DISC "LINCPORT"	1272840.988	252895.244	587.91
2	NGS BRASS DISC "LINCPORT AZ MK"	1274032.357	2529777.821	591.81
3	CHISELED "X" ON EAST FLANGE BOLT, FIRE HYDRANT	1272954.055	2528188.973	592.57
4	CHISELED SQUARE ON NE CORNER OF LIGHT BASE	1272432.497	2528086.399	591.16

CERTIFIED PAYROLLS

THE RESIDENT ENGINEER CANNOT FORWARD CONSTRUCTION REPORTS TO THE ILLINOIS DIVISION OF AERONAUTICS FOR PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THE PERIOD HAVE BEEN RECEIVED.

MATERIAL CERTIFICATION

COMPLETED WORK CANNOT BE PLACED ON A CONSTRUCTION REPORT UNTIL ALL MATERIAL CERTIFICATIONS FOR THAT PAY ITEM HAVE BEEN RECEIVED, REVIEWED AND ACCEPTED BY THE RESIDENT ENGINEER.

J.U.L.I.E. INFORMATION

COUNTY: LOGAN
 CITY: LINCOLN
 TOWNSHIP: EAST LINCOLN
 SECTION NO.: 29
 ADDRESS: LOGAN COUNTY AIRPORT
 RR #4, AIRPORT ROAD
 LINCOLN, ILLINOIS 62656

CRITICAL POINT DATA

LATITUDE: 40° 09' 30.08"
 LONGITUDE: 89° 20' 17.52"
 ELEVATION: 590.14 M.S.L.

PROPOSED SAFETY PLAN

GENERAL - THE LOGAN COUNTY AIRPORT IS COMPRISED OF TWO RUNWAYS. THE PROPOSED CONSTRUCTION WILL NOT CLOSE ANY RUNWAY.

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 (122.80 MHz.) WITH THE AIRPORT UNICOM. THIS WILL KEEP THE CONTRACTOR IN CONSTANT CONTACT WITH THE LOGAN COUNTY 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 49 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS NOV. 2, 2009.

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 CONTRACTOR WILL FURNISH CELL PHONE TO THE RESIDENT ENGINEER FOR HIS EXCLUSIVE USE FOR THE DURATION OF THIS PROJECT. THE RESIDENT ENGINEER WILL USE THIS PHONE FOR PROJECT BUSINESS ONLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CHARGES ASSOCIATED WITH THIS CELL PHONE.

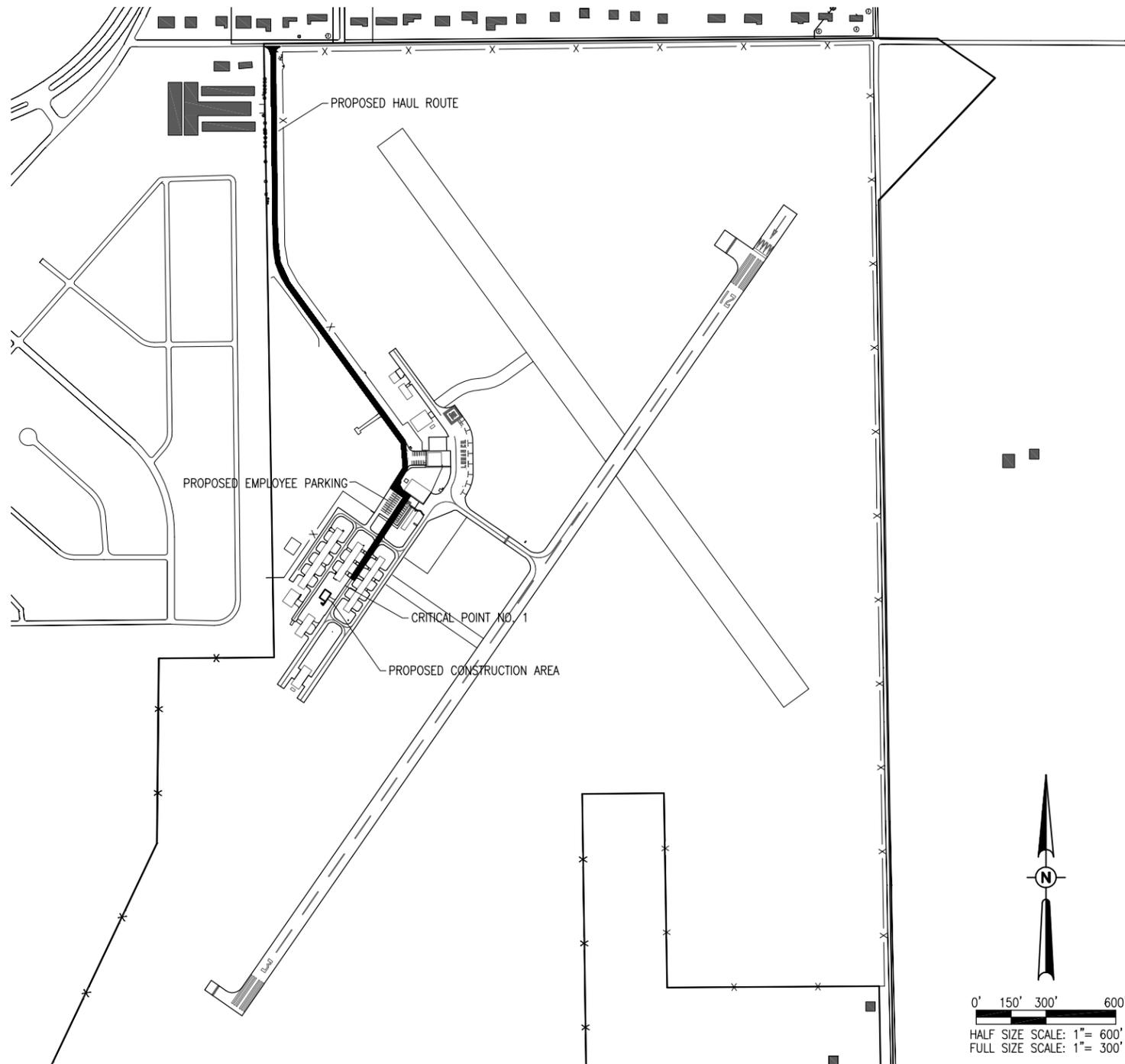
THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE PAID FOR UNDER ITEMS: AR150510 ENGINEER'S FIELD OFFICE ____ 1 L.S.

EROSION CONTROL

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

BARRICADES AND TRAFFIC CONES

BARRICADES SHALL BE PLACED AND MAINTAINED IN SUCH A WAY AS TO PREVENT AIRCRAFT ACCESS TO TAXIWAY SEGMENTS WHERE WORK IS BEING PERFORMED, WHILE MAINTAINING AIRCRAFT ACCESS TO ACTIVE AIRFIELD PAVEMENTS. AIRFIELD PAVEMENT CLOSURES SHALL BE SCHEDULED THROUGH AND WILL REQUIRE THE APPROVAL OF 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.



DATE	REVISION	BY

LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS

Hanson Project No. 10A0081D_0800	06/04/10
Filename R-0035FY.DWG	BAK
Scale 1" = 300'	BAK
Date xx/xx/xx	CAH
LAYOUT	06/04/10
DRAWN	06/04/10
REVIEWED	10/22/10

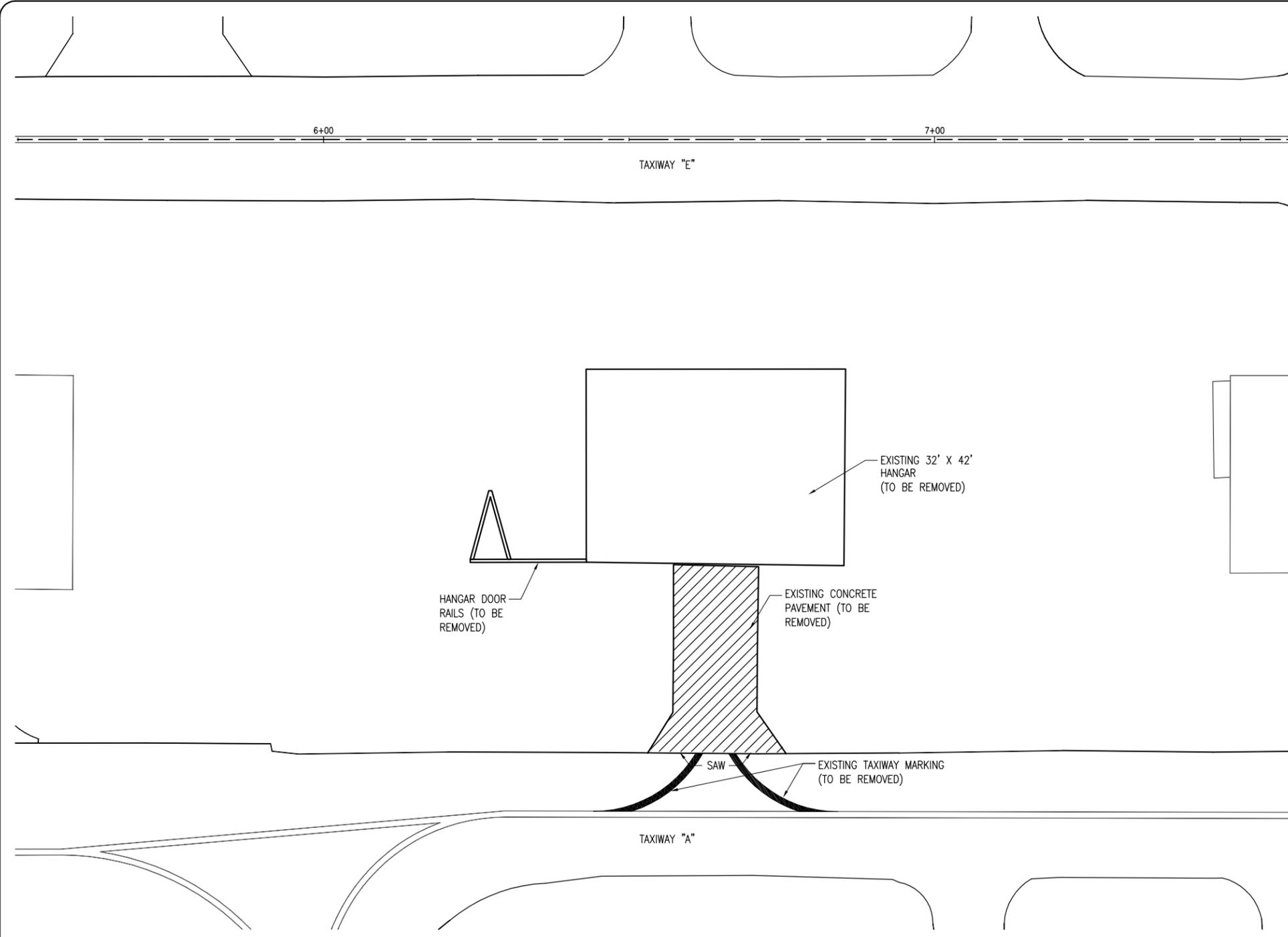


CONSTRUCT T-HANGAR SITE

PROPOSED SAFETY PLAN

3

3 of 19 sheets



P.C.C. PAVEMENT REMOVAL

THE AREA(S) DESIGNATED AS [Hatched Box] ON THIS SHEET WILL HAVE THE EXISTING P.C.C. PAVEMENT REMOVED (FULL DEPTH) TO A SUITABLE SUBGRADE. ALL REMOVED MATERIAL WILL BE DISPOSED OF OFF THE AIRPORT SITE.

WHERE THE PROPOSED REMOVAL AREA ABUTTS THE EXISTING PAVEMENT, THE P.C.C. PAVEMENT WILL BE SAWED AS SHOWN ON THIS SHEET. THE SAWING WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE PROPOSED P.C.C. PAVEMENT REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:
AR501900 "REMOVE PCC PAVEMENT" - PER S.Y.

PAVEMENT SAWING NOTES

THE EDGE OF THE EXISTING PAVEMENT WILL BE SAWED FULL DEPTH AS SHOWN SHEET NO. 5.

THE PROPOSED SAWING WILL REMOVE THE ROLLED DOWN EDGE AND PROVIDE A STRAIGHT PAVEMENT EDGE TO BUTT AGAINST.

THE RESIDENT ENGINEER WILL MARK THE PROPOSED SAW LINE IN THE FIELD.

ANY BITUMINOUS PAVEMENT CUT FROM THE SAWING OPERATIONS WILL BE COLLECTED AND DISPOSED OF OFF THE AIRPORT SITE.

THE SAWING AND DISPOSAL OF ANY WASTE MATERIAL WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED

620900-PAVEMENT MARKING REMOVAL NOTES

THE EXISTING PAVEMENT MARKING SHALL BE REMOVED IN ACCORDANCE WITH ITEM 620 "PAVEMENT MARKING" AS STATED ON PAGE 277 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED NOVEMBER 2, 2009.

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.

THE PROPOSED MARKING REMOVAL WILL BE PAID FOR UNDER ITEM:
AR620900 PAVEMENT MARKING REMOVAL ___ PER S.F.

HANGAR DEMOLITION NOTES

THE EXISTING HANGAR DESIGNATED TO BE REMOVED WILL BE DEMOLISHED AND DISPOSED OF IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMIT FOR THE REMOVAL OR DISPOSAL OF THE STRUCTURE.

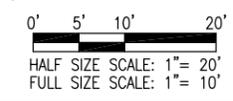
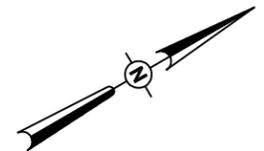
ALL MATERIAL FROM THE REMOVAL OF THIS BUILDING WILL BE DISPOSED OF IN A LEGAL MANNER OFF THE AIRPORT PROPER.

ANY CONCRETE FLOOR OR FOUNDATION WILL BE REMOVED AND DISPOSED OF OFF THE AIRPORT PROPER.

THE PROPOSED HANGAR REMOVAL WILL BE PAID FOR UNDER ITEM:
AR800523 HANGAR DEMOLITION ___ PER L.S.

LEGEND

- [White Box] EXISTING IMPROVEMENTS
- [Light Gray Box] EXISTING BUILDINGS
- [Dark Gray Box] EXISTING BUILDING (TO BE REMOVED)
- [Hatched Box] EXISTING CONCRETE PAVEMENT (TO BE REMOVED)
- [Dashed Line] EXISTING MARKING (TO REMAIN IN PLACE)
- [Solid Line] EXISTING MARKING (TO BE REMOVED)



DATE	REVISION	BY

LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS

IL PROJ.: AAA-4033 A.I.P. PROJ.: 3-17-0062-B17

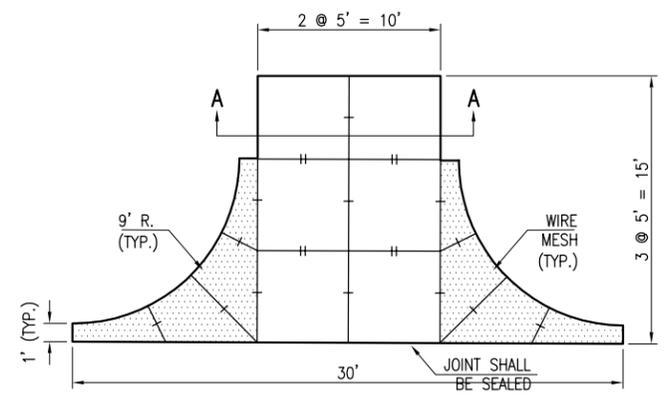
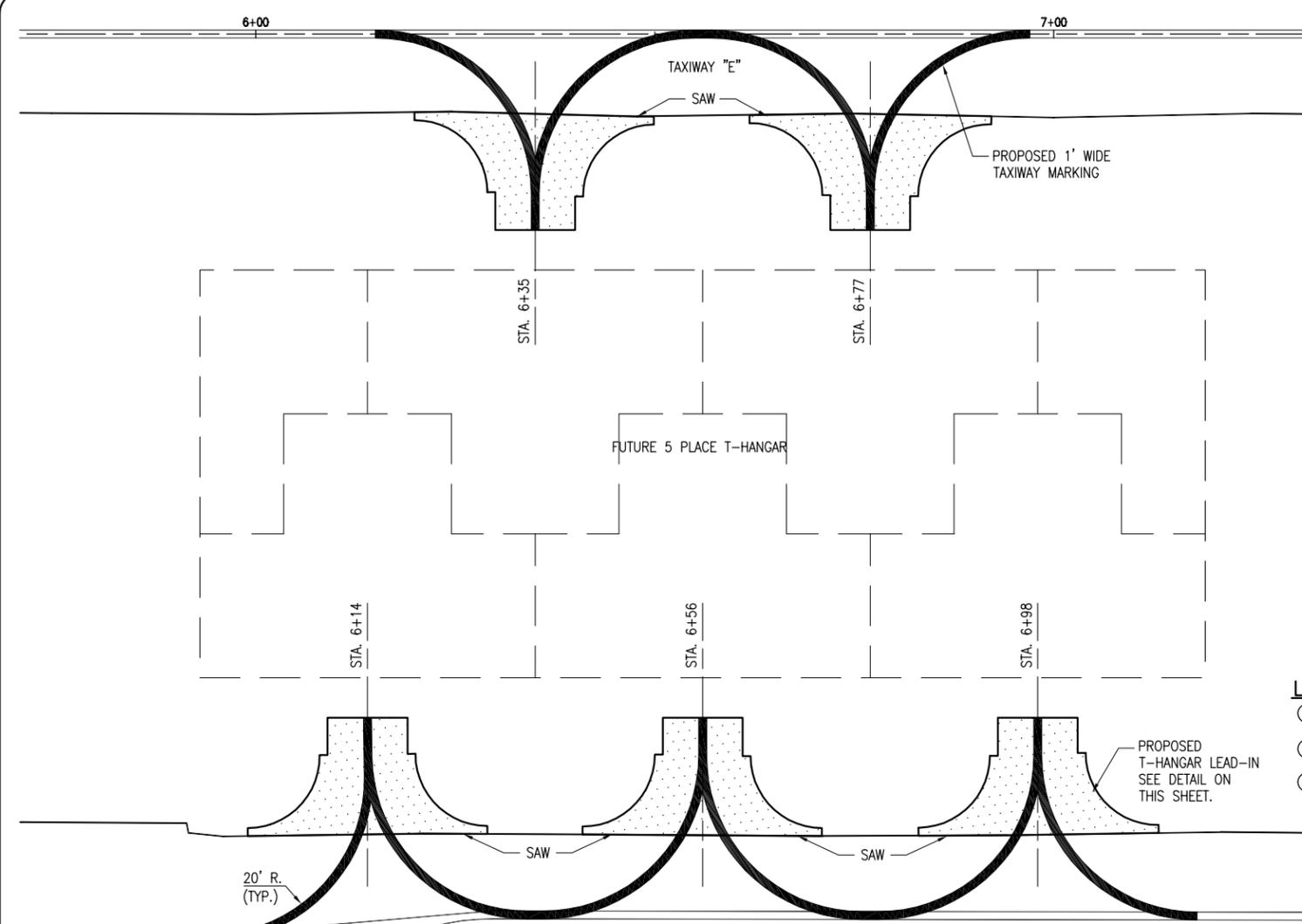
Hanson Project No. 10A0081D_0800	06/04/10
Filename R-101SIT.DWG	BAK
Scale 1" = 300'	BAK
Date xx/xx/xx	CAH
LAYOUT	06/04/10
DRAWN	06/04/10
REVIEWED	10/22/10



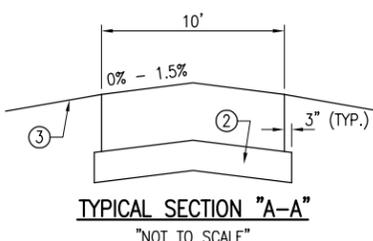
CONSTRUCT T-HANGAR SITE

EXISTING SITE PLAN

JAN 25, 2011 11:52 AM HAGL000382 I:\AIRPORTS\LOGAN\10A0081\CADD\AIRPORT\101SIT.DWG - Layout1



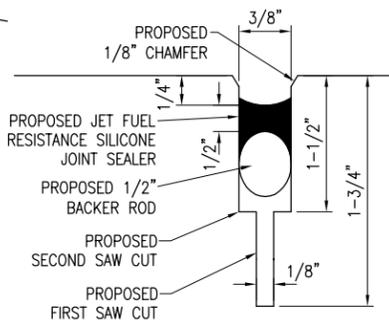
PAVEMENT LEAD-IN DETAIL
SCALE 1" = 5'



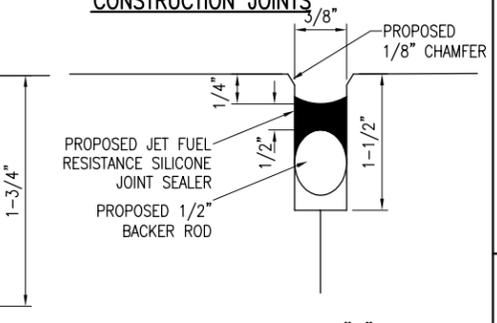
TYPICAL SECTION "A-A"
"NOT TO SCALE"

LEGEND FOR TYPICAL SECTION "A-A"

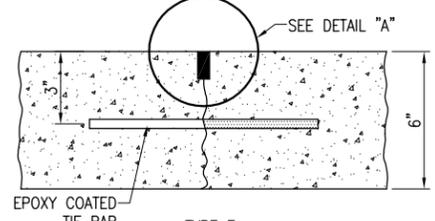
- ① PROPOSED 6" PCC PAVEMENT
- ② PROPOSED 4" AGG. BASE COURSE
- ③ PROPOSED EARTH FILLETS



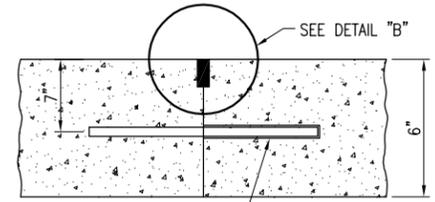
DETAIL "A"
"NOT TO SCALE"



DETAIL "B"
"NOT TO SCALE"



CONTRACTION JOINTS
TYPE F



CONSTRUCTION JOINTS
TYPE D

JOINTING NOTES

ALL EXPOSED JOINT EDGES SHALL BE EDGED WITH AN APPROVED TOOL HAVING A RADIUS OF 1/4" OR STONED TO PRODUCE THE 1/8" CHAMFER.

ALL LONGITUDINAL AND TRANSVERSE CONTRACTION AND CONSTRUCTION JOINTS SHALL BE SAWED.

ALL DOWEL BARS SHALL BE SECURELY HELD IN PLACE BY MEANS OF A DOWEL BAR ASSEMBLY WHICH WILL INSURE THAT THEY WILL REMAIN PARALLEL TO THE SURFACE OF THE PAVEMENT AND TO THE CENTERLINES OF THE PAVEMENT LANES. THE DOWEL BAR ASSEMBLIES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. DOWELS FOR THE 6" PAVEMENT SHALL BE 3/4" DIA., 18" LENGTH AND 12" SPACING.

ALL TIE-BARS SHALL BE SECURELY HELD IN PLACE BY SUPPORT PINS OR OTHER METHODS TO PREVENT SHIFTING DURING AND AFTER CONCRETE PLACEMENT. SUPPORT PINS SHALL BE OF SUFFICIENT LENGTH TO PENETRATE AT LEAST 6" INTO THE SUBGRADE.

ALL TIE-BARS SHALL BE PLACED AT A POINT NOT EXCEEDING 15" OR CLOSER THAN 6" FROM A TRANSVERSE, CONTRACTION, EXPANSION, OR CONSTRUCTION JOINT AND SPACED 30" ON CENTERS AND SHALL BE NO. 5 DEFORMED BARS, 30" IN LENGTH. TIE-BARS DRILLED AND EPOXIED INTO THE EXISTING CONCRETE SHALL BE 18" IN LENGTH.

DOWELS IN TRANSVERSE, CONTRACTION, AND CONSTRUCTION JOINTS SHALL BE EPOXY COATED AND HALF THE LENGTH GREASED WITH A HEAVY GREASE.

ALLOWABLE TOLERANCES FOR GROOVE DEPTH WILL BE +1/8" FOR CONSTRUCTION JOINTS AND +1/4" FOR CONTRACTION JOINTS.

DOWELS AND TIE-BARS LOCATED IN THE CONSTRUCTION JOINTS WILL BE DRILLED AND EPOXY IN PLACE. THE EPOXY MATERIAL MUST BE APPROVED BY THE ILLINOIS DIVISION OF AERONAUTICS.

DOWELS, TIE-BARS AND WIRE MESH WILL BE IN ACCORDANCE WITH ITEM 501 OF THE STANDARD SPECIFICATIONS.

THE COST OF ALL DOWEL BARS, TIE-BARS, SAWING AND SEALING SHALL BE INCLUDED IN THE COST OF THE P.C.C. PAVEMENT.

PRIOR TO PLACING ADJACENT PAVEMENT SECTIONS, THE VERTICAL EDGE SHALL BE CHECKED FOR TRUENESS IF THE FACE IS BURRED OR IRREGULAR, THE CONTRACTOR SHALL GRIND, STONE OR SAW THE FACE A MINIMUM OF 2" IN DEPTH TO PRODUCE A SMOOTH AND STRAIGHT EDGE.

JOINT SEALANT SHALL BE AS SPECIFIED IN THE STANDARD SPECIFICATIONS ITEM 501-2.5.

CURING COMPOUND WILL BE AS SPECIFIED IN THE STANDARD SPECIFICATIONS, ITEM 501-3.17 AND SHALL BE APPROVED PRIOR TO THE PAVING OPERATION BY THE ENGINEER.

ALL NON-ALIGNED EDGES WILL BE SAWED FULL DEPTH.

AR209-CRUSHED AGGREGATE BASE COURSE NOTES

THE CRUSHED AGGREGATE BASE COURSE (209) SHALL BE PLACED IN ACCORDANCE WITH ITEM 209 "CRUSHED AGGREGATE BASE COURSE" AS STATED ON PAGE 93 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED NOVEMBER 2, 2009.

THE CRUSHED AGGREGATE BASE COURSE MATERIAL (CA-6) WILL BE USED TO CONSTRUCT A BASE COURSE FOR THE PROPOSED PCC PAVEMENT (501). THE CRUSHED AGGREGATE BASE COURSE MATERIAL WILL BE 4" IN DEPTH AND COMPACTED TO NOT LESS THAN 95 PERCENT DENSITY.

THE PROPOSED AGGREGATE FOR THE BASE COURSE MATERIAL SHALL MEET THE REQUIREMENTS OF GRADATION "B" IN TABLE 1 OF THE SUPPLEMENTAL SPECIFICATIONS.

209-3.2 EQUIPMENT. ADD THE FOLLOWING PARAGRAPHS TO THIS SECTION:

"PROVISIONS SHALL BE MADE BY THE CONTRACTOR FOR FURNISHING WATER AT THE PLANT AND AT THE SITE OF THE WORK BY EQUIPMENT OF AMPLE CAPACITY AND OF SUCH DESIGN AS TO ASSURE UNIFORM MIXING AND APPLICATION."

THE CONTRACTOR WILL PROVIDE THE RESIDENT ENGINEER A PROCTOR CURVE SHOWING OPTIMUM DENSITY AND MOISTURE FOR THE SUPPLIED BASE COURSE MATERIAL.

THE COMPACTION CONTROL TEST TO BE USED SHALL BE FAA COMPACTION CONTROL TEST T-611 FOR AIRCRAFT WEIGHING LESS THAN 60,000 LBS.

THE PROPOSED AGGREGATE BASE COURSE WILL BE PAID FOR UNDER ITEM: AR209510 CRUSHED AGGREGATED BASE COURSE ___ PER TON.

620-PAVEMENT MARKING-WATERBORNE NOTES

THE PAVEMENT MARKING-WATERBORNE (620) SHALL BE PLACED IN ACCORDANCE WITH ITEM 620 "PAVEMENT MARKING" AS STATED ON PAGE 277 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED NOV. 2, 2009.

THIS ITEM SHALL CONSIST OF TAXIWAY CENTERLINE MARKING IN ACCORDANCE WITH THESE SPECIFICATIONS AND AT THE LOCATIONS SHOWN ON THE CONSTRUCTION PLANS. ALL 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 CURING COMPOUND WILL BE CLEANED FROM CONCRETE PAVEMENT PRIOR TO APPLYING PAINT. NO EXCEPTIONS.

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

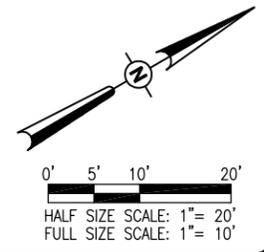
GLASS BEADS SHALL BE REQUIRED ONLY ON THE SECOND APPLICATION OF YELLOW MARKING.

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

THE PROPOSED MARKING WILL BE PAID FOR UNDER ITEM: AR620520 PAVEMENT MARKING-WATERBORNE ___ PER S.F.

LEGEND

- EXISTING IMPROVEMENTS
- PROPOSED PAVEMENT
- FUTURE BUILDING
- EXISTING MARKING
- PROPOSED MARKING
- PROPOSED TYPE F CONTRACTION JOINT
- PROPOSED TYPE D CONSTRUCTION JOINT



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LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS

IL PROJ.: AAA-4033 A.I.P. PROJ.: 3-17-0062-B17

Hanson Project No. 10A0081D_0800	BAK	06/04/10
File Name: R-102ST.DWG	BAK	06/04/10
Scale: 1" = 300'	CAH	10/22/10
Date: xx/xx/xx		

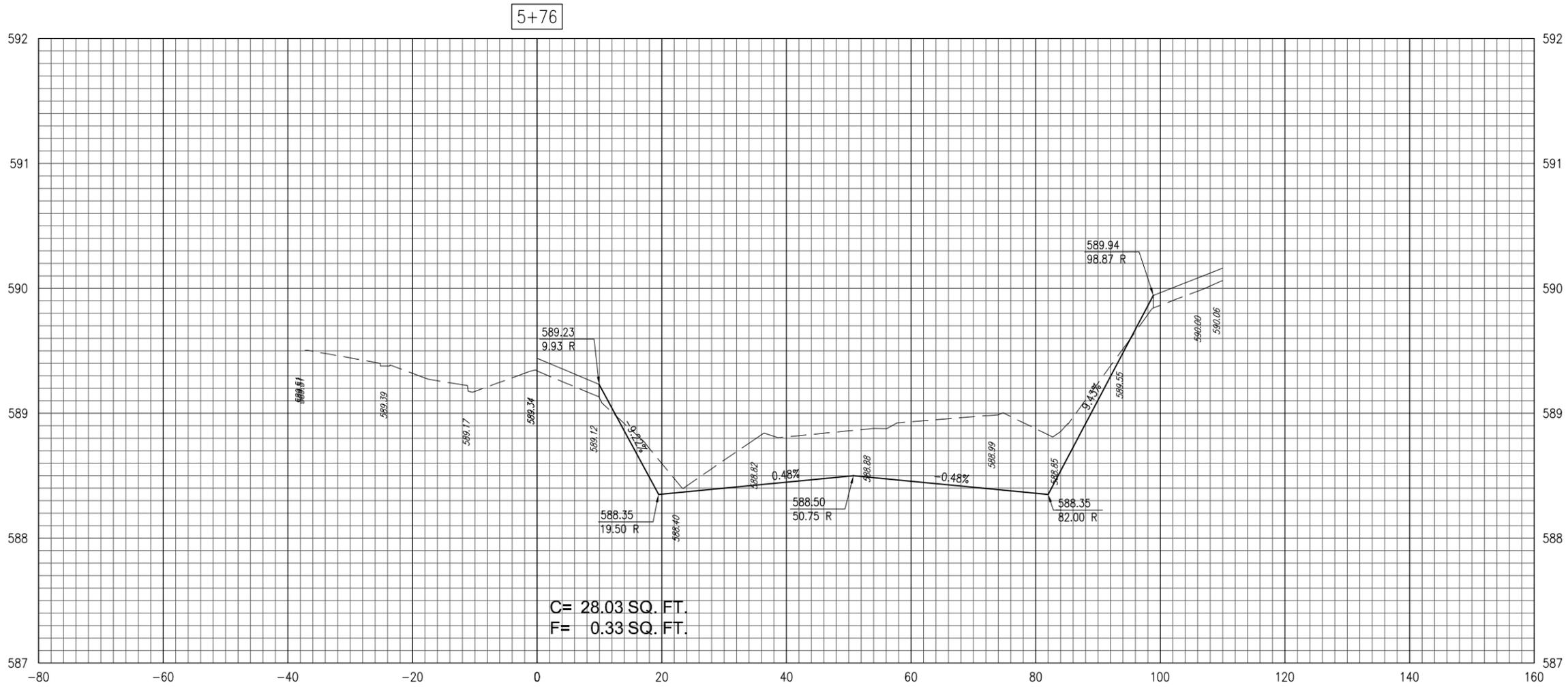


CONSTRUCT T-HANGAR SITE

PROPOSED SITE PLAN

JAN 25, 2011 11:56 AM HAGL000382 I:\AIRPORTS\LOGAN\10A0081\CAD\AIRPORT\102ST.DWG - Layout

JAN 25, 2011 12:24 PM HAGL000382
 I:\AIRPORTS\LOGAN\1040081\CADD\AIRPORT\1040081\PROJECTS\CROSS SECTIONS STA. 5+76



5+76

C= 28.03 SQ. FT.
 F= 0.33 SQ. FT.

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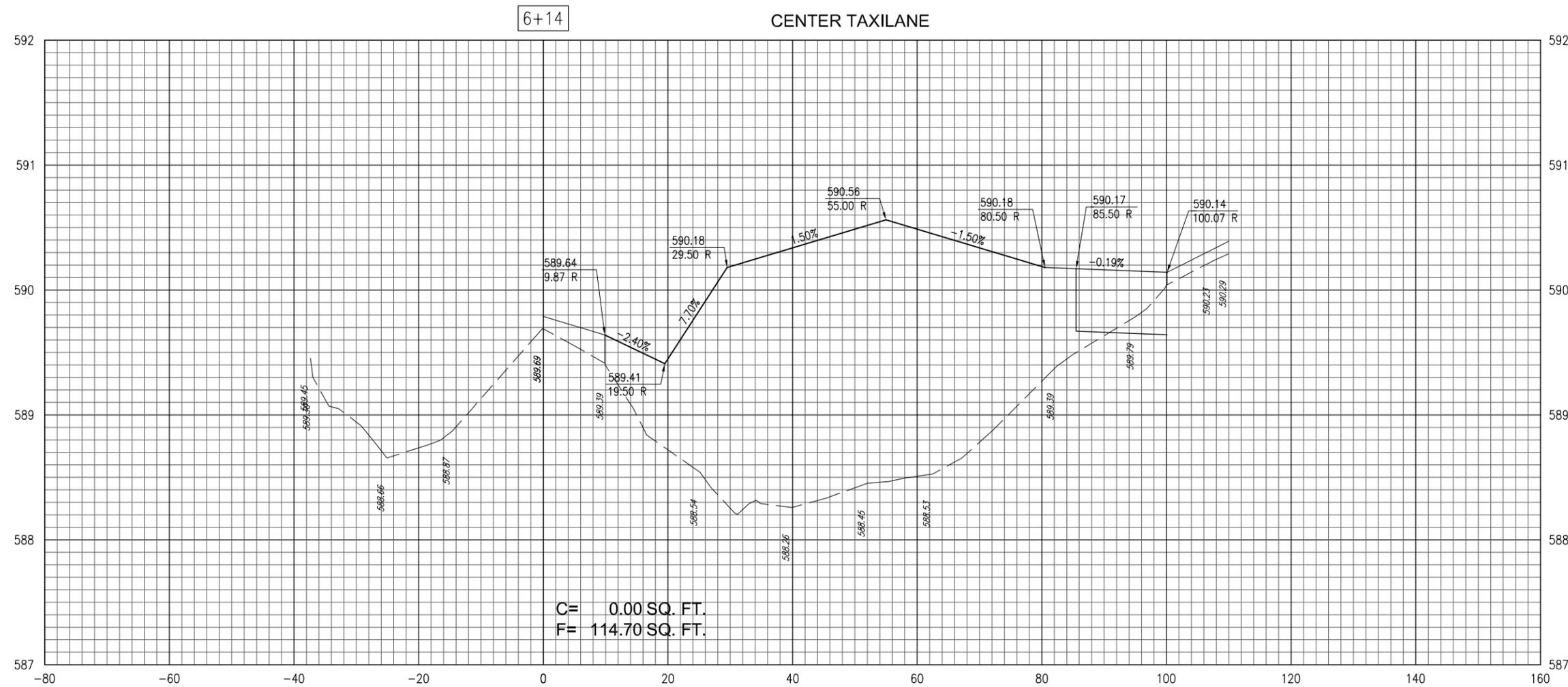
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Filename	R-301XS.DWG
Scale	NOT TO SCALE
Date	xx/xx/xx
LAYOUT	JEO 06/04/10
DRAWN	JEO 06/04/10
REVIEWED	CAH 10/22/10



**CONSTRUCT
 T-HANGAR SITE**

**PROPOSED CROSS SECTIONS
 STA. 5+76**

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 I:\AIRPORTS\LOGAN\10A0081\CADD\AIRPORT\10A0081\PROJECT\PROPOSED CROSS SECTIONS STA. 6+14



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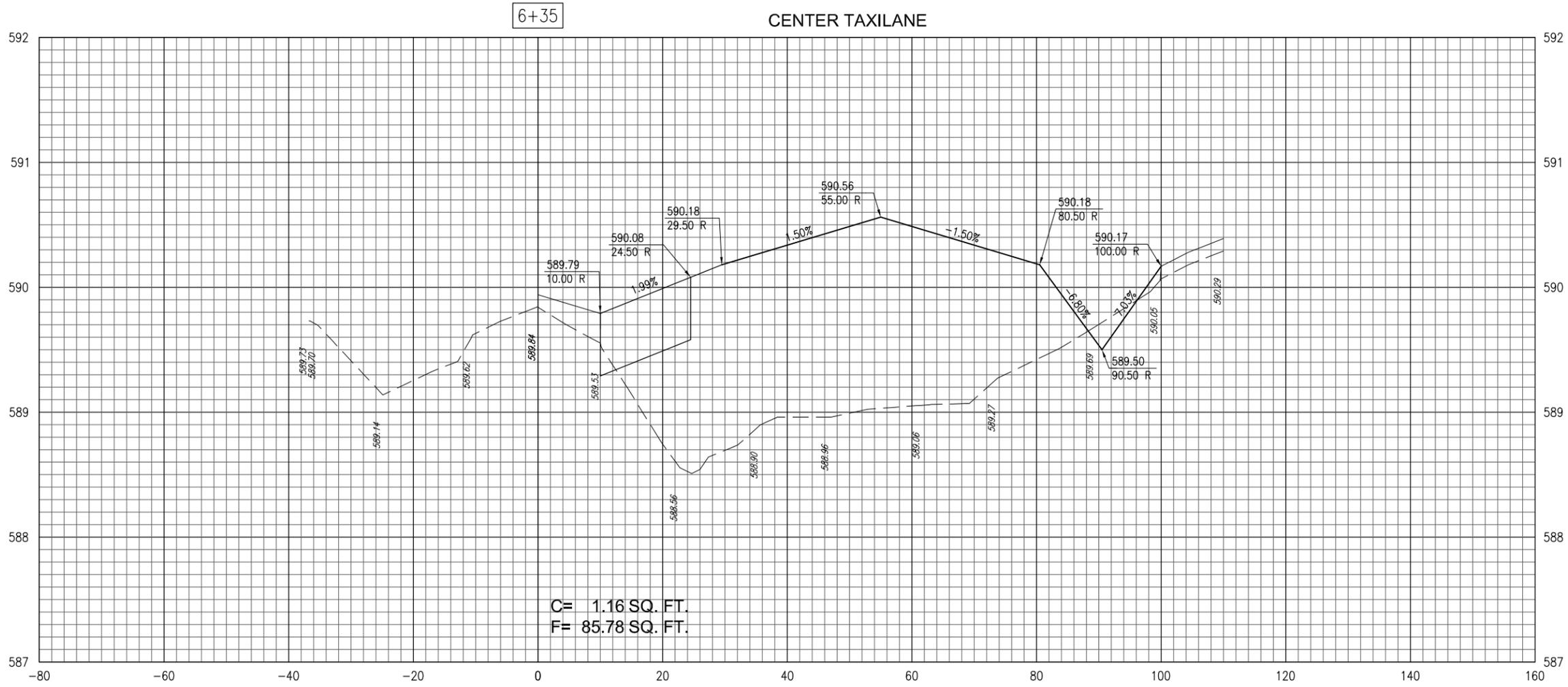
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Filename R-301XS.DWG	DRAWN	JEO	06/04/10
Scale NOT TO SCALE	REVIEWED	CAH	10/22/10
Date xx/xx/xx			



Hanson Professional Services Inc.
 1525 South Sixth Street
 Springfield, Illinois 62703-2866
 Offices Nationwide

**CONSTRUCT
 T-HANGAR SITE**
 PROPOSED CROSS SECTIONS
 STA. 6+14

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 LINCOLN, ILLINOIS**

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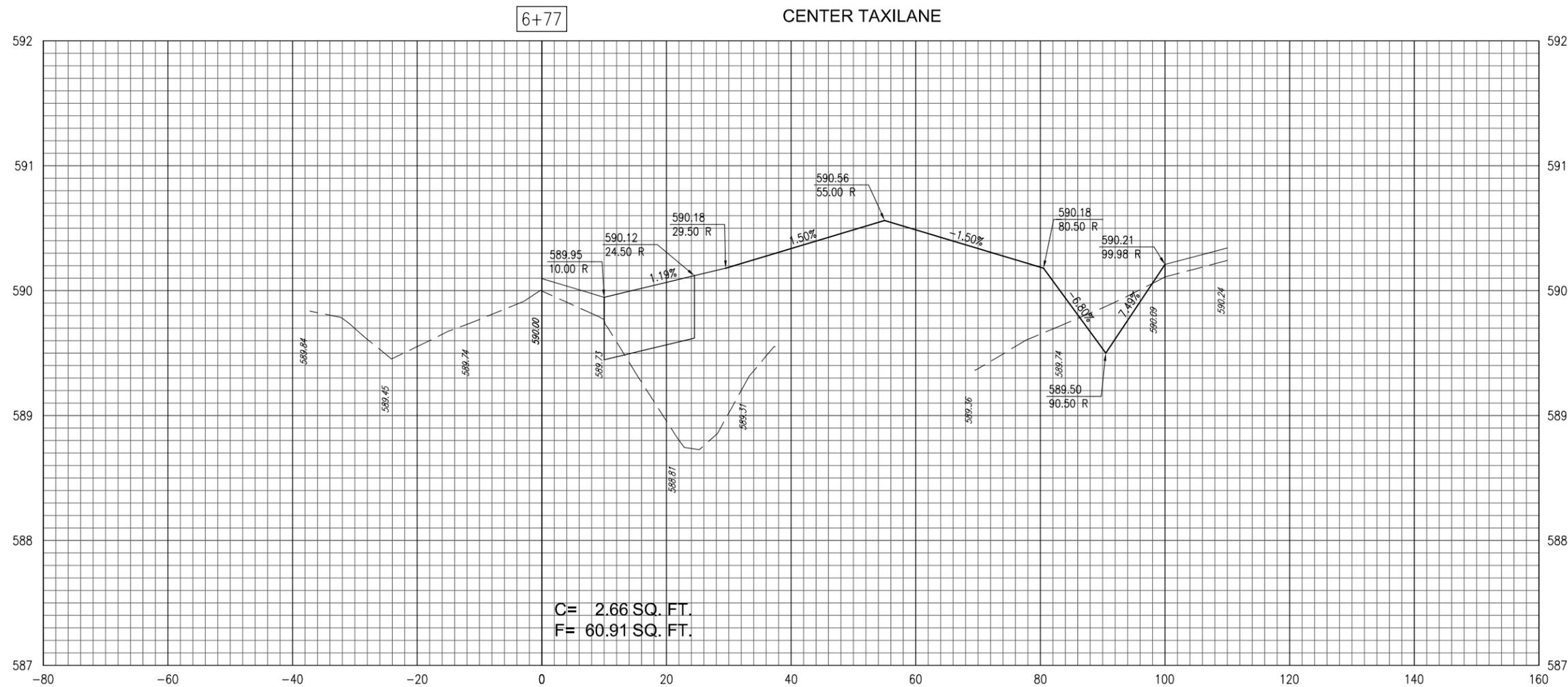
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Filename R-301XS.DWG	DRAWN	JEO	06/04/10
Scale NOT TO SCALE	REVIEWED	CAH	10/22/10
Date xx/xx/xx			



**CONSTRUCT
 T-HANGAR SITE**

PROPOSED CROSS SECTIONS
 STA. 6+35

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DATE	REVISION	BY

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IL PROJ.: AAA-4033 A.I.P. PROJ.: 3-17-0062-B17

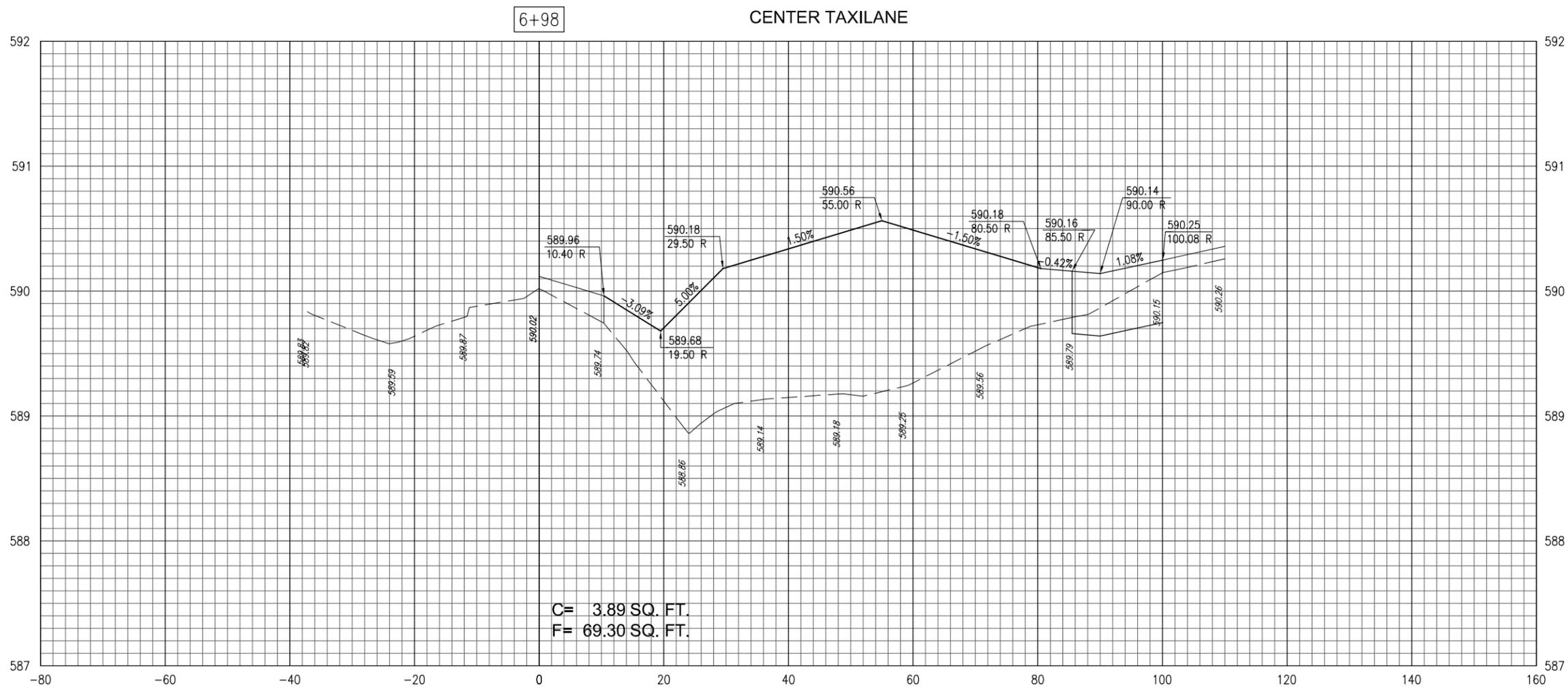
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Filename R-301XS.DWG	DRAWN	JEO	06/04/10
Scale NOT TO SCALE	REVIEWED	CAH	10/22/10
Date xx/xx/xx			



**CONSTRUCT
 T-HANGAR SITE**

**PROPOSED CROSS SECTIONS
 STA. 6+77**

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DATE	REVISION	BY

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 LINCOLN, ILLINOIS**

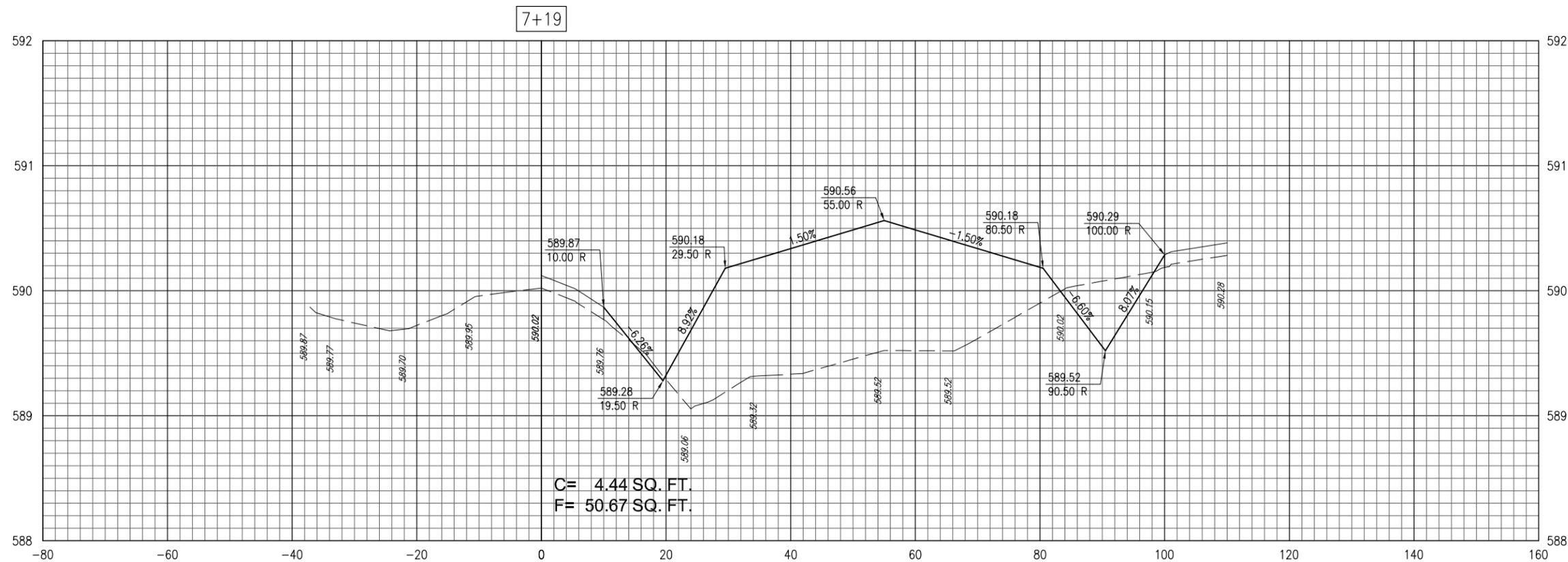
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Filename R-301XS.DWG	DRAWN	JEO	06/04/10
Scale NOT TO SCALE	REVIEWED	CAH	10/22/10
Date xx/xx/xx			



**CONSTRUCT
 T-HANGAR SITE**

PROPOSED CROSS SECTIONS
 STA. 6+98



DATE	REVISION	BY

**LOGAN COUNTY AIRPORT
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IL. PROJ.: AAA-4033 A.I.P. PROJ.: 3-17-0062-B17

Hanson Project No. 10A0081D_0800	LAYOUT	JEO	06/04/10
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Scale NOT TO SCALE	REVIEWED	CAH	10/22/10
Date xx/xx/xx			

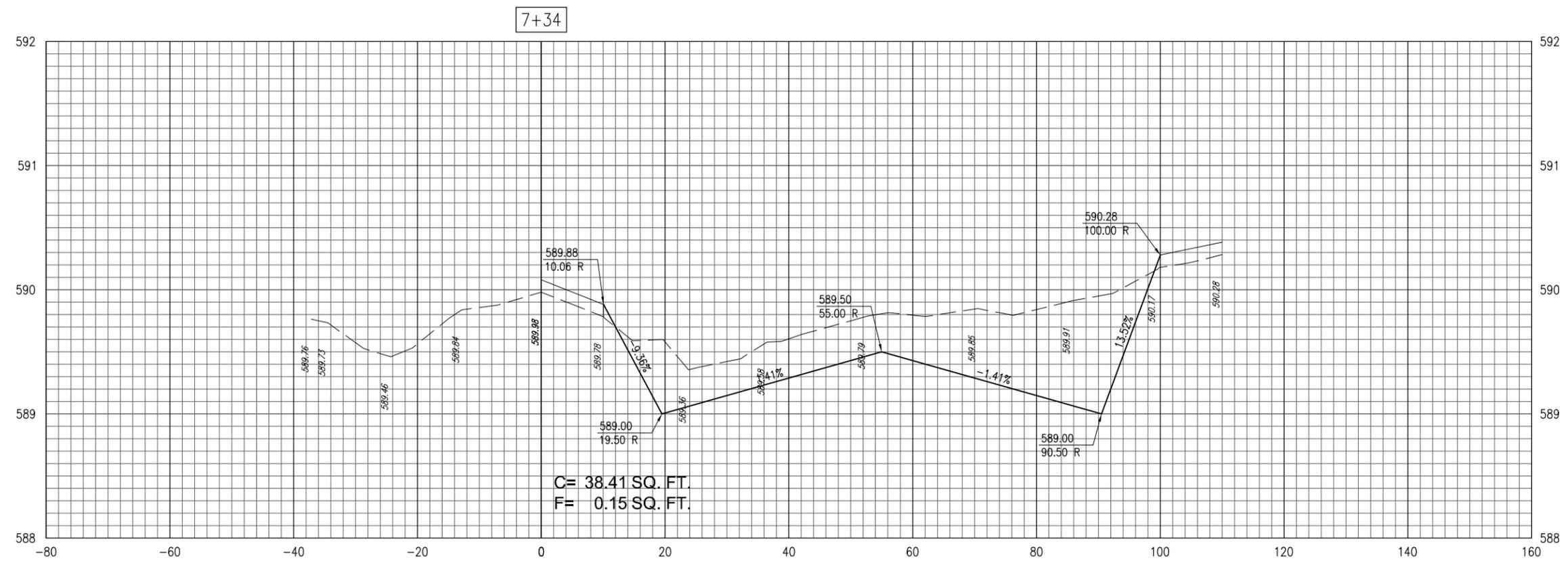


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**CONSTRUCT
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PROPOSED CROSS SECTIONS
 STA. 7+19

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DATE	REVISION	BY

**LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS**

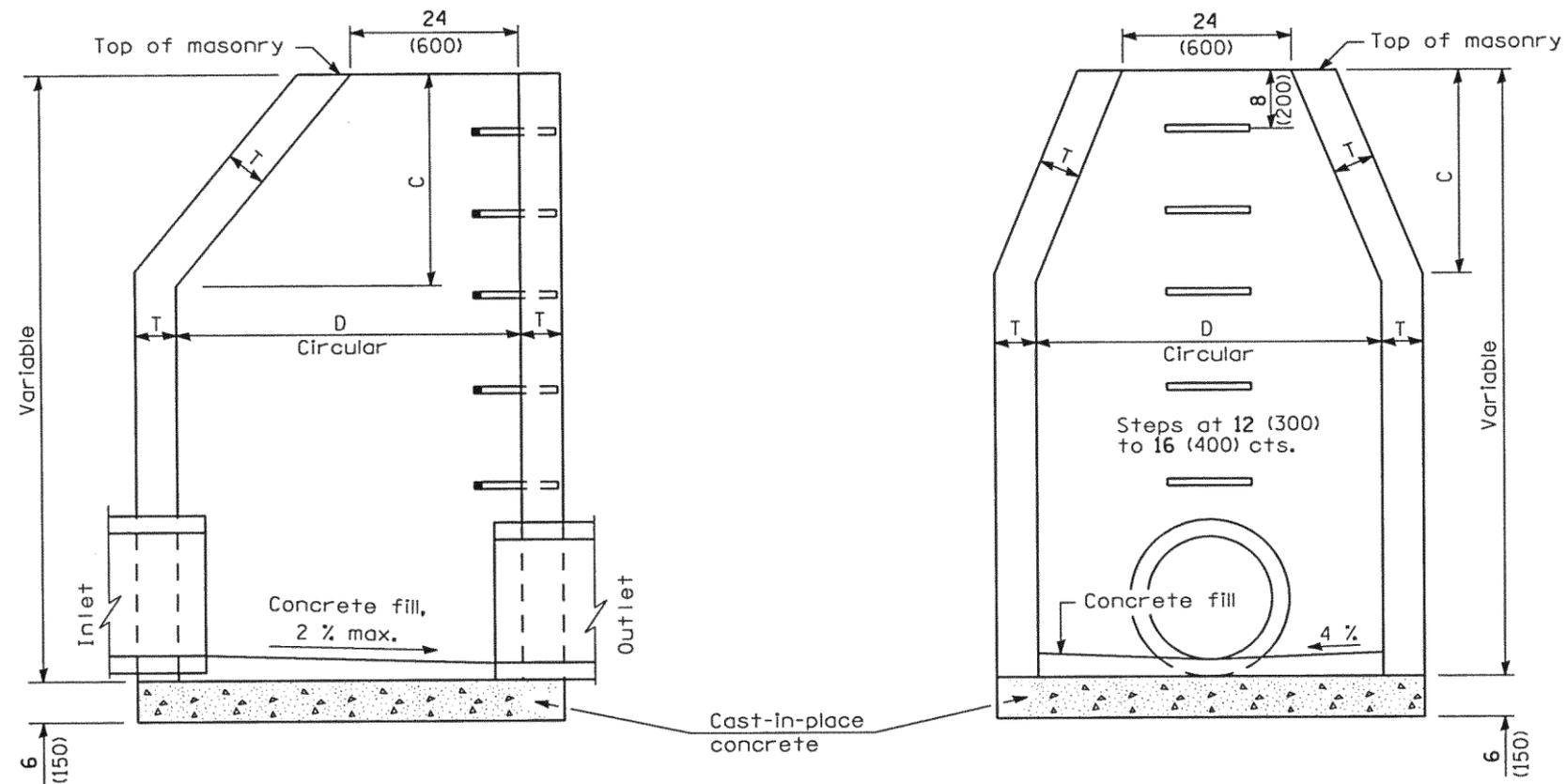
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Filename R-301XS.DWG	DRAWN	JEO	06/04/10
Scale NOT TO SCALE	REVIEWED	CAH	10/22/10
Date xx/xx/xx			



**CONSTRUCT
 T-HANGAR SITE**

PROPOSED CROSS SECTIONS
 STA. 7+34

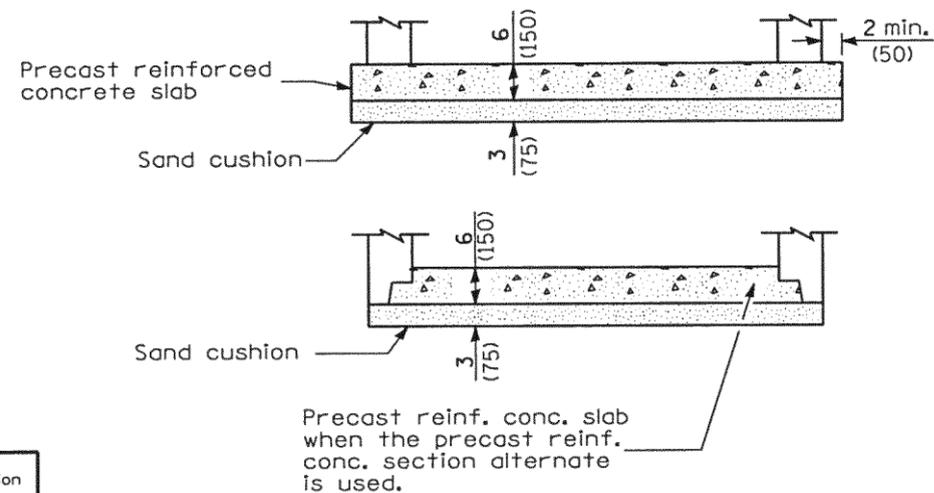


ELEVATION - ECCENTRIC

ELEVATION - CONCENTRIC

ALTERNATE MATERIALS FOR WALLS	D	C*	T (min.)
Concrete Masonry Unit	4'-0" (1.2 m)	30 (750)	5 (125)
	5'-0" (1.5 m)	3'-9" (1.15 m)	5 (125)
Brick Masonry	4'-0" (1.2 m)	30 (750)	8 (200)
	5'-0" (1.5 m)	3'-9" (1.15 m)	8 (200)
Precast Reinforced Concrete Section	4'-0" (1.2 m)	30 (750)	4 (100)
	5'-0" (1.5 m)	3'-9" (1.15 m)	5 (125)
Cast-in-place Concrete	4'-0" (1.2 m)	30 (750)	6 (150)
	5'-0" (1.5 m)	3'-9" (1.15 m)	6 (150)

* For precast reinforced concrete sections, dimension "C" may vary from the dimension given to plus 6 (150).



ALTERNATE BOTTOM SLAB

GENERAL NOTES

See Standard 602701 for details of steps.

See Standard 602601 for optional Precast Reinforced Concrete Flat Slab Top.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
4-1-06	Revised detail for concrete fill in elevation vews.

MANHOLE TYPE A

STANDARD 602401-02

Illinois Department of Transportation

PASSED January 1, 2009

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2009

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-09