

# CONSTRUCTION PLANS

## FOR

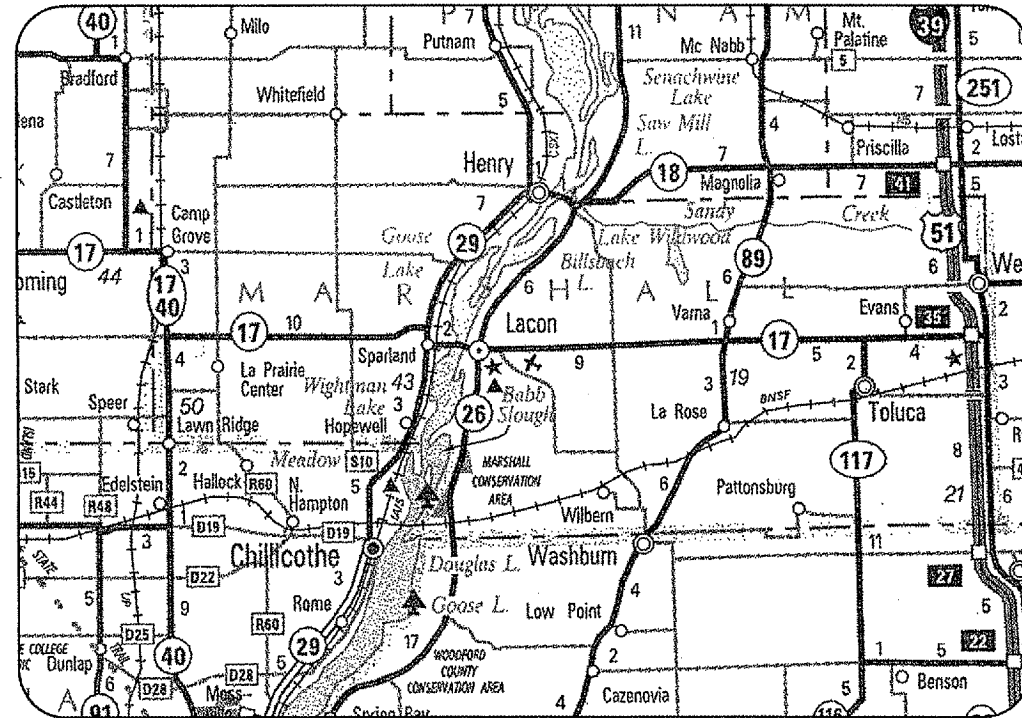
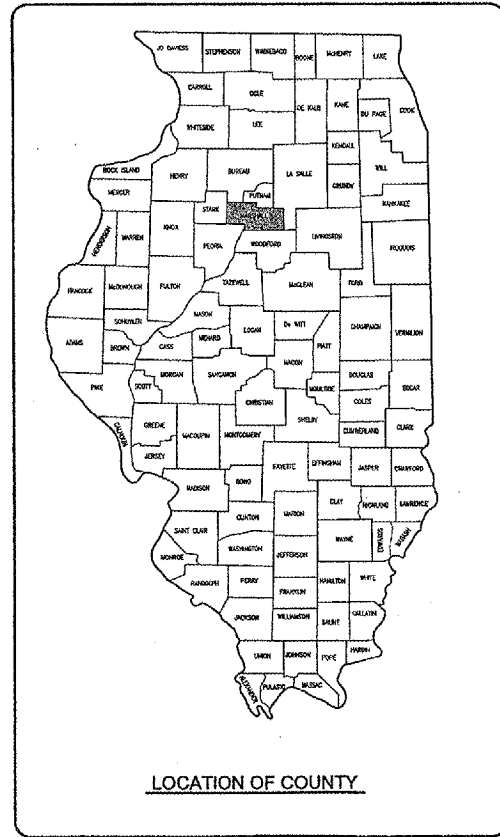
# MARSHALL COUNTY AIRPORT

## LACON, MARSHALL COUNTY, ILLINOIS

# CONSTRUCT T-HANGAR ACCESS TAXIWAYS

**SCOPE OF WORK**

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF ACCESS TAXIWAYS FOR A NEW 10 PLACE T-HANGAR. PROJECT INCLUDES GRADING, DRAINAGE, AGGREGATE BASE COURSE, BITUMINOUS BASE COURSE, BITUMINOUS SURFACE COURSE, PAVEMENT MARKING, SEEDING AND MULCHING.



### LOCATION

ILL. PROJ.: C75-3542  
 A.I.P. PROJ.: 3-17-0059-B8  
 LATITUDE: 41° 01' 05"  
 LONGITUDE: 89° 23' 08"  
 ELEVATION: 569.0' M.S.L.  
 DATE: DEC 16, 2005



**HANSON**  
 Hanson Professional Services Inc.

Submitted by: *Charles A. Ragloch* ENG'R  
 Date Submitted: JANUARY 13, 2006  
 Lics. Exp. Date: NOVEMBER 30, 2007

MARSHALL COUNTY AIRPORT

Approved: *Charles L. Allen* CHAIRMAN  
 Date: 12/20/05  
 Approved: *Robert Jesse* SECRETARY  
 Date: 12/21/05

DATE	REVISION	BY	

MARSHALL COUNTY AIRPORT LACON, ILLINOIS			
ILL. PROJ. NO. 811-0816CD-0800	FILE NAME R-001CVR.DWG	SCALE N/A	DATE 10/10/05
LAYOUT	B.A.K.	10/10/05	
DRAWN	B.A.K.	10/10/05	
REVIEWED	C.A.H.	xx/xx/xx	

PROPOSED T-HANGAR ACCESS TAXIWAY	COVER SHEET
1	1

A.I.P. PROJ.: 3-17-0059-B8  
 ILL. PROJ.: C75-3542

JAN 12, 2006 2:24 PM CAH  
 I:\AIRPORTS\MARSHALL\811-0816CD\AIRPORT\811-0816CD\CVR.DWG - COVER

DATE	REVISION	BY

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL		AS BUILT		TOTAL		AS BUILT	
			FEDERAL/LOCAL QUANTITIES	FEDERAL/LOCAL QUANTITIES	FED/STATE/LOCAL QUANTITIES	FED/STATE/LOCAL QUANTITIES	PROJECT QUANTITIES	PROJECT QUANTITIES		
AR108965	RELOCATE CABLE	L.S.			1			1		
AR125100	ELEVATED RETROREFLECTIVE MARKER	EACH			4			4		
AR150510	ENGINEER'S FIELD OFFICE	L.S.			1			1		
AR150540	HAUL ROUTE	L.S.			1			1		
AR152410	UNCLASSIFIED EXCAVATION	C.Y.			1,997			1,997		
AR156511	DITCH CHECK	EACH			3			3		
AR156513	SEPARATION FABRIC	S.Y.	690		4,153			4,843		
AR156521	HEADWALL PROTECTION	EACH			3			3		
AR201610	BITUMINOUS BASE COURSE	TON	102		613			715		
AR208540	OVERSIZED AGGREGATE	TON	319		1,919			2,238		
AR209510	CRUSHED AGGREGATE BASE COURSE	TON	278		1,674			1,952		
AR401610	BITUMINOUS SURFACE COURSE	TON	61		365			426		
AR401665	BITUMINOUS PAVEMENT SAWING	L.F.			270			270		
AR602510	BITUMINOUS PRIME COAT	GAL.	240		1,442			1,682		
AR603510	BITUMINOUS TACK COAT	GAL.	102		613			715		
AR620520	PAVEMENT MARKING - WATERBORNE	S.F.			817			817		
AR701515	15" RCP, CLASS IV	L.F.			63			63		
AR751940	ADJUST INLET	EACH			2			2		
AR752615	CONCRETE HEADWALL 15"	EACH			1			1		
AR752903	REMOVE HEADWALL	EACH			1			1		
AR901510	SEEDING	ACRE			1.8			1.8		
AR908510	MULCHING	ACRE			1.8			1.8		

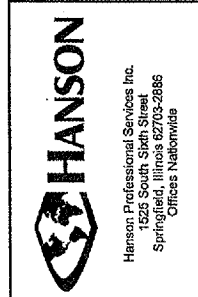
INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QUANTITIES AND INDEX TO SHEETS
3	PROPOSED SAFETY PLAN
4	PROPOSED STORMWATER POLLUTION PREVENTION PLAN
5	PROPOSED EROSION CONTROL DETAILS
6	PROPOSED CONSTRUCTION PLAN
7	PROPOSED PARTICIPATION PLAN
8	PROPOSED DRAINAGE PLAN
9	PROPOSED PIPE PLAN AND PROFILE
10	PROPOSED STAKING PLAN
11	PROPOSED MARKING PLAN
12	PROPOSED CROSS-SECTIONS FOR ACCESS TAXIWAY STA. 348+50 TO STA. 348+75
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14	PROPOSED CROSS-SECTIONS FOR ACCESS TAXIWAY STA. 349+44.59 TO STA. 349+50
15	PROPOSED CROSS-SECTIONS FOR ACCESS TAXIWAY STA. 349+59.59 TO STA. 349+69.59
16	PROPOSED CROSS-SECTIONS FOR ACCESS TAXIWAY STA. 349+75 TO STA. 350+00
17	PROPOSED CROSS-SECTIONS FOR ACCESS TAXIWAY STA. 350+24.09 TO STA. 350+75.09
18	PROPOSED CROSS-SECTIONS FOR ACCESS TAXIWAY STA. 351+00 TO STA. 351+34.97
19	PROPOSED CROSS-SECTIONS FOR ACCESS TAXIWAY STA. 351+50 TO STA. 352+00
20	PROPOSED CROSS-SECTIONS FOR ACCESS TAXIWAY STA. 352+00 TO STA. 352+75

**MARSHALL COUNTY AIRPORT  
LACON, ILLINOIS**

A.I.P. PROJ.: 3-17-0059-88  
I.L. PROJ.: C75-3542

REF. Project No. 811-06THCD_0800	Plan No. R-002FLP.DWG	Scale N/A	Date 10/10/05
LAYOUT	B.A.K.	10/10/05	
DRAWN	B.A.K.	10/10/05	
REVIEWED	C.A.H.	xx/xx/xx	



**PROPOSED T-HANGAR  
ACCESS TAXIWAY**

SUMMARY OF QUANTITIES  
AND  
INDEX TO SHEETS

**SCOPE OF WORK**

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF ACCESS TAXIWAYS FOR A NEW B PLACE T-HANGAR INCLUDING A CORPORATE HANGAR. PROJECT INCLUDES GRADING, DRAINAGE, AGGREGATE BASE COURSE, BITUMINOUS BASE COURSE, BITUMINOUS SURFACE COURSE, 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.

**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 SEMI-TRAILER TRUCK W/EXTENDED BED.

**HAUL ROUTE AND VEHICLE PARKING**

THE CONTRACTOR WILL USE THE DESIGNATED HAUL ROUTE AND PARKING AREA AS SHOWN ON THIS SHEET. THE PROPOSED PARKING AREA WILL BE 100' X 100'. 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 HAUL ROUTE AND PARKING AREA AS NEEDED TO RESTORE IT TO ITS ORIGINAL STATE. RESTORATION OF THE HAUL ROUTE AND PARKING AREA 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 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 MAINTAIN CONTINUOUS TAXIWAY ACCESS TO ALL HANGARS AND ADMINISTRATIVE AREAS.

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

NO TRENCHES OR HOLES WILL REMAIN OPEN OVERNIGHT.

**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 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.

**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 STEADY BURN OR FLASHING 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.

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.

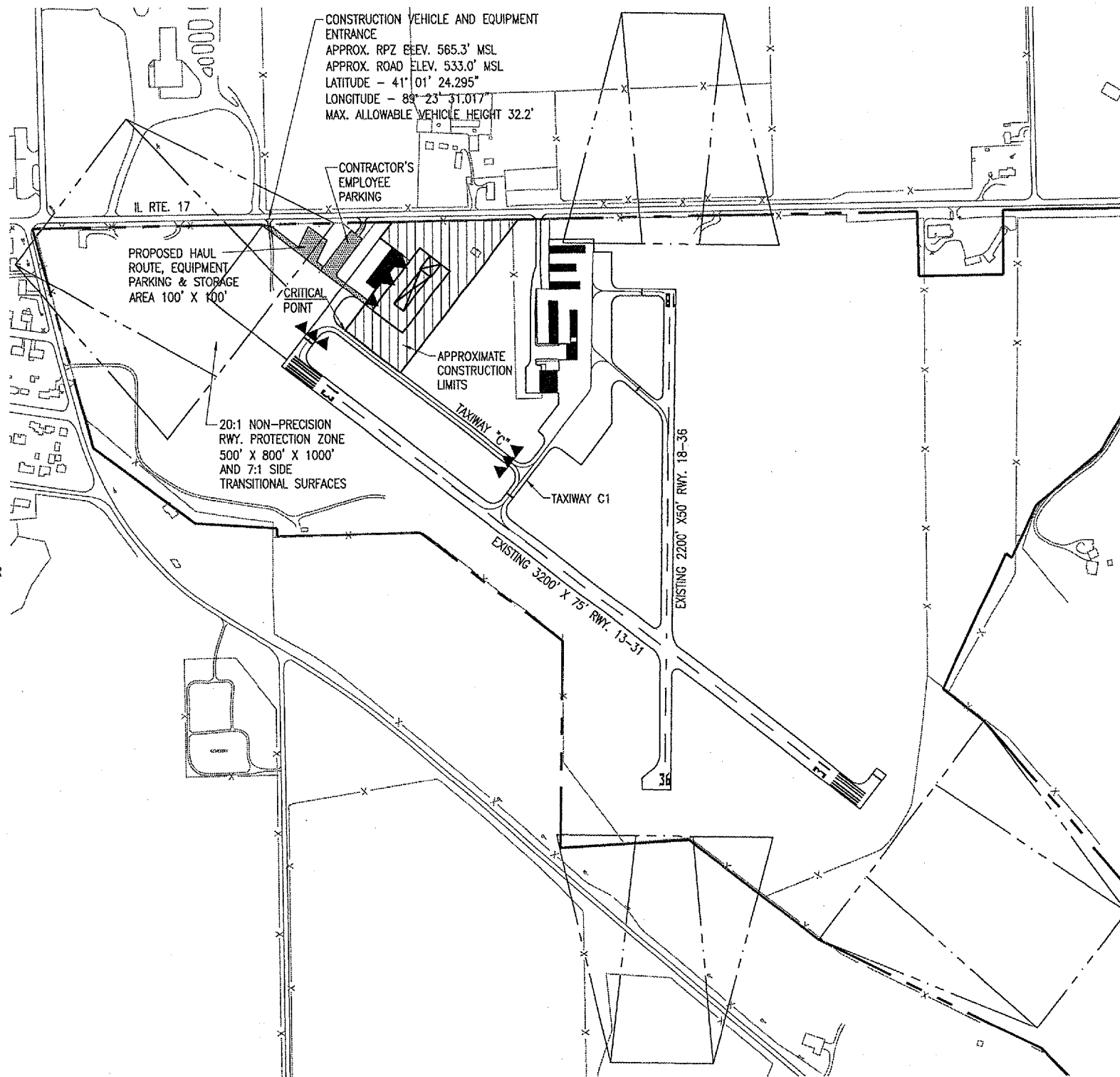
BENCHMARK DATA				
NO.	DESCRIPTION	NORTHING	EASTING	ELEV.
1	LACPORT NGS MONUMENT	1,585,214.690	2,512,981.969	N/A
2	LACPORT AZ MONUMENT	1,587,067.557	2,510,579.083	N/A
3	5/8" IRON PIN W/ HELI METAL CAP	1,586,449.457	2,511,380.665	549.16

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

COUNTY: MARSHALL  
CITY: LACON  
TOWNSHIP: HOPEWELL  
SECTION NO.: 31  
ADDRESS: MARSHALL COUNTY AIRPORT  
LACON, ILLINOIS 61540

**CRITICAL POINT DATA**

LATITUDE: 41° 01' 19.256"N  
LONGITUDE: 89° 23' 24.361"W  
ELEVATION: 533.50 M.S.L.



**PROPOSED SAFETY PLAN**

**GENERAL** - THE MARSHALL COUNTY AIRPORT IS COMPRISED OF TWO RUNWAYS. THE PROPOSED CONSTRUCTION WILL NOT NECESSITATE THE CLOSING OF EITHER OF THESE RUNWAYS. THE PARTIAL PARALLEL TAXIWAY WILL BE CLOSED WHENEVER WORK IS DONE WITHIN 40' OF THE TAXIWAY CENTERLINE (79 FT WIDE SAFETY AREA). THE CONTRACTOR WILL MINIMIZE THE LENGTH OF TIME THE TAXIWAY WILL BE CLOSED. TEMPORARY TAXIWAY CLOSURE WILL BE COORDINATED WITH THE AIRPORT MANAGER. THE AIRPORT MANAGER WILL BE ADVISED IN ADVANCE OF THE CLOSURE OF THE TAXIWAY IN ORDER TO INSURE THE REQUIRED NOTAM IS ISSUED. ALL WORK INCLUDED IN OPENING AND CLOSING THE TAXIWAY WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**STAGING** - NO STAGING OF THE PROPOSED PROJECT WILL BE REQUIRED. THE CONTRACTOR WILL HAVE TO PROVIDE THE AIRPORT MANAGER WITH TWO WEEKS ADVANCE NOTICE PRIOR TO STARTING. THIS WILL PROVIDE THE AIRPORT MANAGER WITH SUFFICIENT TIME TO NOTIFY THE TENANTS OF THE EXISTING T-HANGAR TO MOVE THEIR PLANES IF THEY DON'T WANT RESTRICTIONS PLACED ON THEM BECAUSE OF THE PROPOSED CONSTRUCTION.

**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 MARSHALL 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.

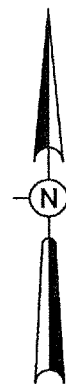
**EROSION CONTROL**

THIS PROJECT WILL DISTURB MORE THAN 1 ACRE OF LAND, THEREFORE A N.P.D.E.S. PERMIT WILL BE REQUIRED.

**LEGEND**

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

0' 150' 300' 600'  
HALF SIZE SCALE: 1" = 600'  
FULL SIZE SCALE: 1" = 300'



MA023

DATE	REVISION	BY
01/23/06	REVISED AS PER B.A. REVIEW	CAH

MARSHALL COUNTY AIRPORT  
LACON, ILLINOIS  
A.I.P. PROJ.: 3-17-0059-BB  
IL PROJ.: C75-3542

HEI Project No. 811-08TIGD-0800	10/10/05
Drawn R-003SFY.DWG	B.A.K.
Scale 1" = 300'	10/10/05
Date 10/10/05	xx/xx/xx
LAYOUT	C.A.H.
DRAWN	
REVIEWED	

Hanson Professional Services Inc.  
1525 South Shore Street  
Springfield, IL 62769-2886  
Chicago, Illinois

PROPOSED T-HANGAR  
ACCESS TAXIWAY  
PROPOSED  
SAFETY  
PLAN

JAN 23, 2006 12:44 PM CAH  
E:\AIRPORTS\MARSHALL\811-08TIGD\AIRPORT\_SHEETS\R-003SFY.DWG - SAFETY

**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 SPECIFICATION FOR SOIL EROSIONS AND SEDIMENT CONTROL.

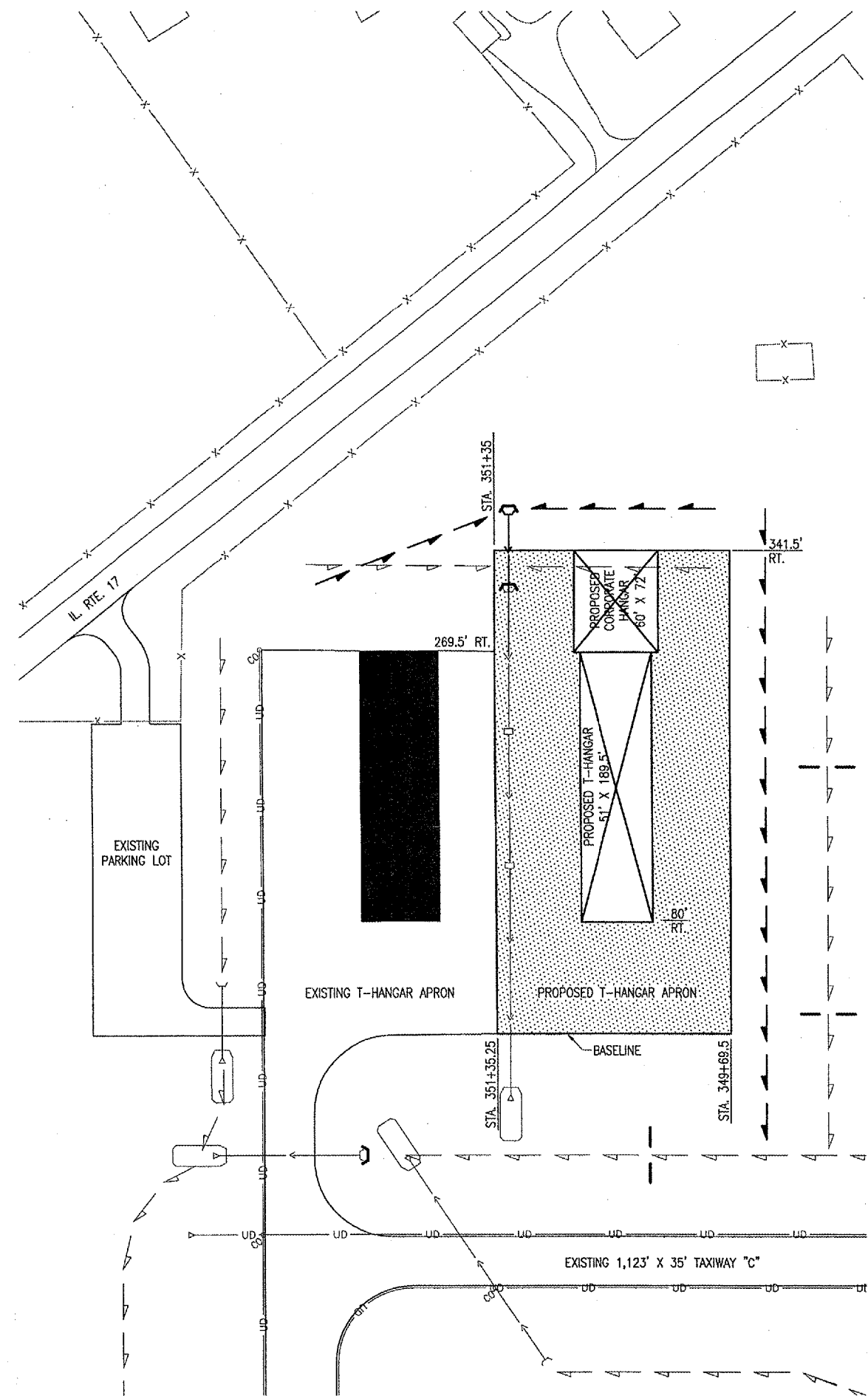
FILTER FENCE FOR STRUCTURE PROTECTION AS SHOWN ON SHEET NO. 5.

THE PROPOSED HEADWALL PROTECTION WILL BE PLACED AT THE LOCATIONS SHOWN ON THIS SHEET.

ONCE THE EXISTING HEADWALL HAS BEEN REMOVED AND THE PROPOSED HEADWALL IS CONSTRUCTED, THE PROPOSED HEADWALL PROTECTION WILL BE MOVED FROM THE EXISTING HEADWALL TO THE PROPOSED HEADWALL. ADDITIONAL HEADWALL PROTECTION MAY BE REQUIRED AND WOULD BE PAID FOR UNDER ITEM AR156521, "HEADWALL PROTECTION".

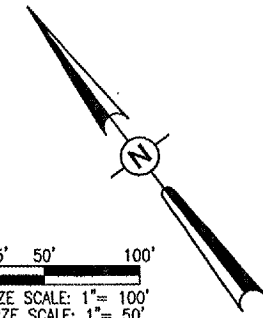
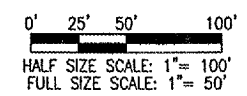
INSPECTION OF THE HEADWALL PROTECTION SHALL BE FREQUENT AND REPAIR/REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

HEADWALL PROTECTION IS TO INCLUDE ALL INCIDENTALS NECESSARY TO CONSTRUCT THESE ITEMS AND WILL BE PAID FOR UNDER ITEM: AR156521 HEADWALL PROTECTION.



EROSION CONTROL QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR156511	DITCH CHECK	EACH	3
AR156521	HEADWALL PROTECTION	EACH	3

- LEGEND**
- EXISTING IMPROVEMENTS
  - PROPOSED IMPROVEMENTS
  - EXISTING BUILDINGS
  - PROPOSED BUILDINGS
  - EXISTING FENCE
  - EXISTING R.C.C.P.
  - PROPOSED R.C.C.P.
  - EXISTING UNDERDRAIN
  - EXISTING DRAINAGE DITCH
  - PROPOSED DRAINAGE DITCH
  - EXISTING HEADWALL
  - PROPOSED HEADWALL
  - EXISTING END SECTION
  - EXISTING INLET
  - EXISTING INSPECTION HOLE
  - PROPOSED DITCH CHECK
  - PROPOSED HEADWALL PROTECTION



JAN 12, 2006 2:26 PM CAH I:\AIRPORTS\MARSHALL\811-06THG\AIRPORT SHEETS\R-181SWP.DWG - SWPPP

DATE	REVISION	BY	
MARSHALL COUNTY AIRPORT LACON, ILLINOIS			
A.I.P. PROJ.: 3-17-0059-88			
IL. PROJ.: C75-3542			
ILL. Project No. 811-06THGD_0800 Filename: R-181SWP.DWG Scale: 1" = 50' Date: 10/12/05		LAYOUT: B.A.K. 10/12/05 DRAWN: B.A.K. 10/12/05 REVIEWED: C.A.H. xx/xx/xx	
Hanson Professional Services Inc. 625 S. State Street Springfield, Illinois 62703-2886 Offices Nationwide			
PROPOSED T-HANGAR ACCESS TAXIWAY		PROPOSED STORMWATER POLLUTION PREVENTION PLAN	
4			
4 of 20 sheets			

DATE	REVISION	BY

MARSHALL COUNTY AIRPORT  
LACON, ILLINOIS

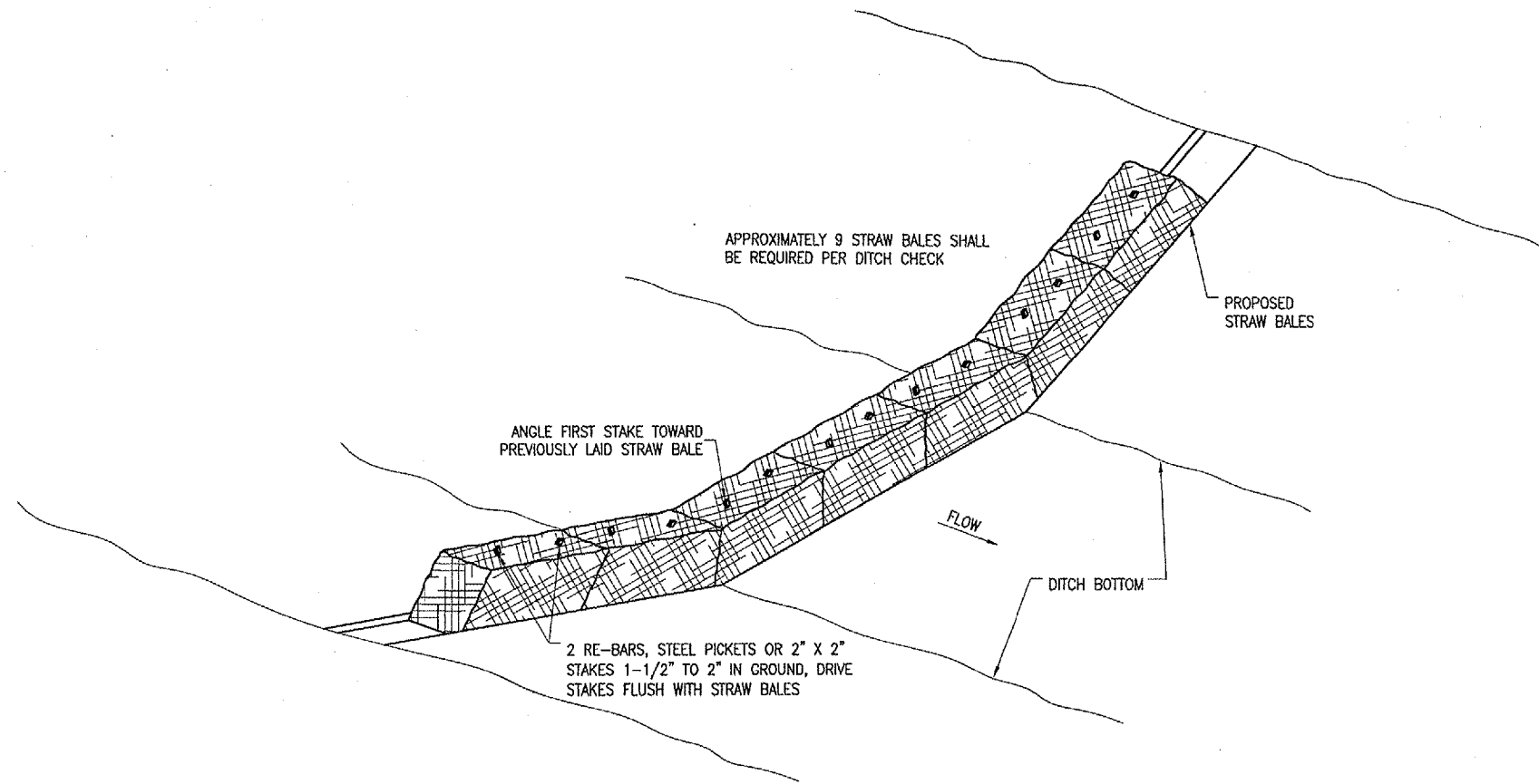
IL PROJ: C75-3542 A.I.P. PROJ: 3-17-0059-88

HL Project No. 811-08THCD_0800	DATE 10/13/05
Filename R-181SWP.DWG	BY B.A.K.
Scale N/A	DATE 10/13/05
DATE 10/13/05	REVIEWED C.A.H.
LAYOUT B.A.K.	xx/xx/xx
DRAWN B.A.K.	



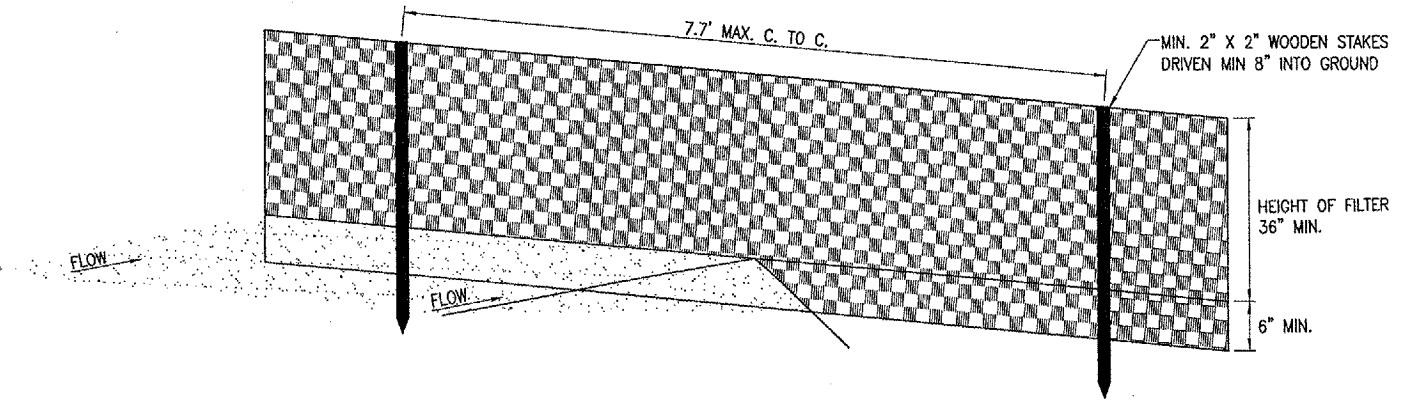
PROPOSED T-HANGAR  
ACCESS TAXIWAY

PROPOSED  
EROSION  
CONTROL DETAILS



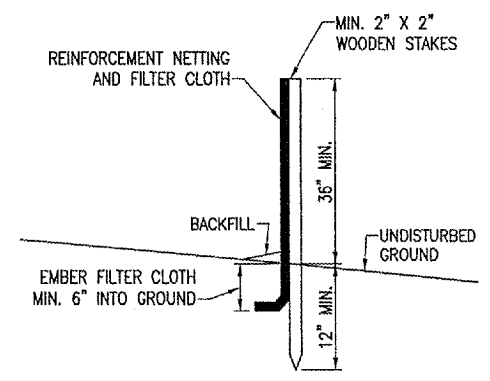
ANCHORING DETAIL

DITCH CHECK DETAIL  
"NOT TO SCALE"

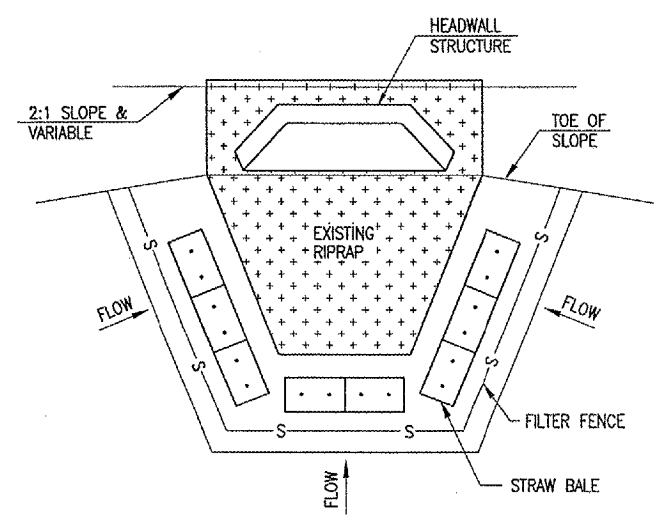


PERSPECTIVE VIEW

FILTER FENCE DETAIL  
"NOT TO SCALE"



SECTION



HEADWALL STRUCTURE PROTECTION  
"NOT TO SCALE"

**PAVEMENT SAWING NOTES**

THE EAST EDGE OF THE EXISTING T-HANGAR APRON AND ACCESS TAXWAY WILL BE SAWED FULL DEPTH AT A DISTANCE OF 3" FROM THE PAVEMENT EDGE.

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

THE CONTRACTOR WILL MARK THE PROPOSED SAW LINE IN THE FIELD.

THE BITUMINOUS PAVEMENT CUT FROM THE T-HANGAR APRON AND ACCESS TAXWAY WILL BE COLLECTED AND DISPOSED OF OFF THE AIRPORT SITE.

THE BITUMINOUS PAVEMENT SAWING AND ALL ASSOCIATED WORK WILL BE PAID FOR UNDER ITEM: AR401665 BITUMINOUS PAVEMENT SAWING \_\_\_\_\_ 270 L.F.

**209 - 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 45 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THE CRUSHED AGGREGATE BASE COURSE MATERIAL (CA-6) WILL BE USED TO CONSTRUCT A BASE COURSE FOR THE PROPOSED BITUMINOUS BASE COURSE (201). THE CRUSHED AGGREGATE BASE COURSE MATERIAL WILL BE 6-1/2" 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.

209-4.1. DELETE THE FIFTH SENTENCE AND REPLACE IT WITH THE FOLLOWING:

"IF AT THE TIME THE AGGREGATES ARE WEIGHED THEY CONTAIN MORE THAN SIX (6) PERCENT OF ABSORBED AND FREE MOISTURE BY WEIGHT, A DEDUCTION FOR THE MOISTURE IN EXCESS OF THIS AMOUNT SHALL BE MADE IN DETERMINING THE PAY QUANTITY."

THE PROPOSED CRUSHED AGGREGATE BASE COURSE WILL BE PAID FOR UNDER ITEM: AR209510 CRUSHED AGGREGATE BASE COURSE \_\_\_\_\_ 1,952 TONS.

**AR401611 BITUMINOUS SURFACE COURSE - METHOD 1**

THE BITUMINOUS SURFACE COURSE (401) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR401001 "BITUMINOUS SURFACE COURSE-METHOD 1" 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 1 LIFT OF BITUMINOUS SURFACE COURSE (1.5 INCH DEPTH) ON THE PROPOSED BITUMINOUS PAVEMENT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY CONTROL IN THE PRODUCTION AND CONSTRUCTION OF THE BITUMINOUS SURFACE COURSE.

PRIOR TO STARTING THE AGGREGATE BITUMINOUS SURFACE COURSE OPERATION, THE CONTRACTOR SHALL SUBMIT TO THE RESIDENT ENGINEER A DETAILED OUTLINE SHOWING AREAS AND ORDER OF PAVING WIDTHS OF PAVING LANES, AND REQUIRED OFFSETS FOR ELECTRONIC GRADE.

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

401-4.9 ADD THE FOLLOWING TO THIS SECTION:

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 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.

PAVING QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR156513	SEPARATION FABRIC	S.Y.	4,843
AR201610	BITUMINOUS BASE COURSE	TON	715
AR208540	OVERSIZED AGGREGATE	TON	2,238
AR209510	CRUSHED AGGREGATE BASE COURSE	TON	1,952
AR401610	BITUMINOUS SURFACE COURSE	TON	426
AR602510	BITUMINOUS PRIME COAT	GAL.	1,682
AR603510	BITUMINOUS TACK COAT	GAL.	715

**AR201-BITUMINOUS BASE COURSE NOTES**

THE BITUMINOUS BASE COURSE (201) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR201002 "BITUMINOUS BASE COURSE-METHOD 1" AS STATED ON PAGE 185 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM OF WORK SHALL CONSIST OF CONSTRUCTING ONE LIFT OF BITUMINOUS BASE COURSE (2-1/2 INCH DEPTH) ON THE PROPOSED CRUSHED AGGREGATE BASE COURSE FOR THE PROPOSED RUNWAY EXTENSION.

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

**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 SURFACE COURSE. FOR ESTIMATE PURPOSES, A RATE OF 0.35 GAL./S.Y. WAS USED. 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 \_\_\_\_\_ 1,682 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.

THE PROPOSED BITUMINOUS TACK COAT SHALL BE PLACED ON THE PROPOSED BITUMINOUS PAVEMENT PRIOR TO THE PLACEMENT OF THE NEXT LIFT OF PROPOSED BITUMINOUS SURFACE COURSE. FOR ESTIMATING PURPOSES A RATE OF 0.15 GAL./S.Y. WAS USED.

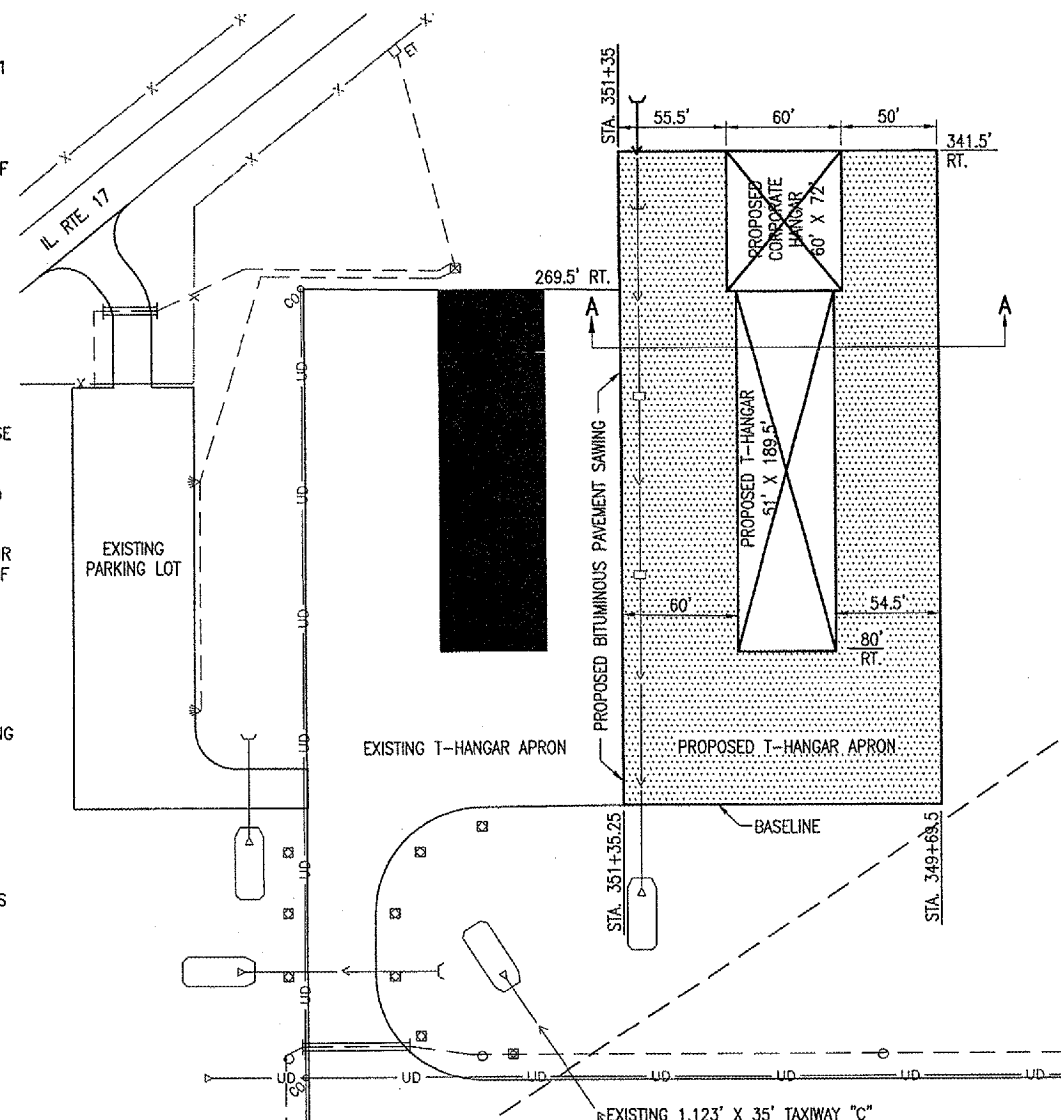
THE PROPOSED BITUMINOUS TACK COAT WILL BE PAID FOR UNDER ITEM: AR603510 BITUMINOUS TACK COAT \_\_\_\_\_ 715 GAL.

**156-SEPARATION FABRIC NOTES:**

THE SEPARATION FABRIC (156) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR156 "SEPARATION FABRIC" AS STATED ON PAGE 180 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

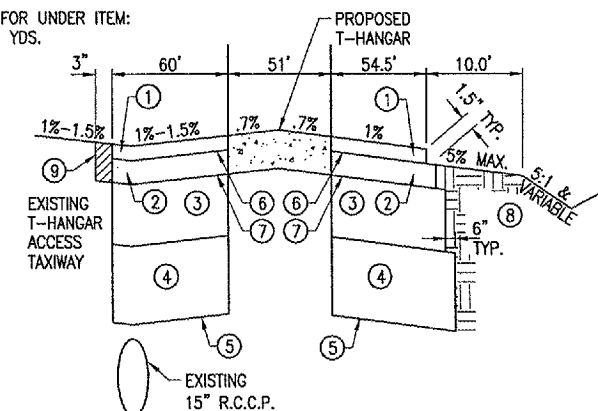
THE PROPOSED SEPARATION FABRIC SHALL BE PLACED ON THE SUBGRADE PRIOR TO THE PLACEMENT OF THE PROPOSED OVERSIZE AGGREGATE. THE SEPARATION FABRIC SHALL BE PLACED TO THE WIDTHS SHOWN ON THE PROPOSED PAVEMENT TYPICAL SECTION.

THE PROPOSED SEPARATION FABRIC WILL BE PAID FOR UNDER ITEM: AR156513 SEPARATION FABRIC \_\_\_\_\_ 4,843 SQ. YDS.



**LEGEND**

- [Pattern] EXISTING IMPROVEMENTS
- [Pattern] PROPOSED IMPROVEMENTS
- [Pattern] EXISTING BUILDINGS
- [Pattern] PROPOSED BUILDINGS
- [Symbol] EXISTING FENCE
- [Symbol] EXISTING R.C.C.P.
- [Symbol] PROPOSED R.C.C.P.
- [Symbol] EXISTING UNDERDRAIN
- [Symbol] EXISTING HEADWALL (TO BE REMOVED)
- [Symbol] PROPOSED HEADWALL
- [Symbol] EXISTING END SECTION
- [Symbol] EXISTING INLET (TO BE ADJUSTED)
- [Symbol] EXISTING INSPECTION HOLE
- [Symbol] EXISTING ELECTRICAL CABLE
- [Symbol] EXISTING ELECTRICAL DUCT
- [Symbol] EXISTING BASE MOUNTED TAXIWAY LIGHT
- [Symbol] EXISTING STAKE MOUNTED TAXIWAY LIGHT
- [Symbol] EXISTING ELEVATED TAXIWAY REFLECTOR
- [Symbol] EXISTING PARKING LOT LIGHT
- [Symbol] EXISTING DISTRIBUTION PANEL
- [Symbol] EXISTING ELECTRICAL TRANSFORMER
- [Symbol] EXISTING ELECTRICAL MANHOLE

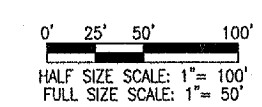


**TYPICAL SECTION "A-A"**

"NOT TO SCALE"

**LEGEND FOR TYPICAL SECTION "A-A"**

- ① 401 - BITUMINOUS SURFACE COURSE (1-1/2" DEPTH)
- ② 201 - BITUMINOUS BASE COURSE (2-1/2" DEPTH)
- ③ 209 - CRUSHED AGGREGATE BASE COURSE (6-1/2" DEPTH)
- ④ 208 - OVERSIZE STABILIZING AGGREGATE (8" DEPTH)
- ⑤ 156 - SEPARATION FABRIC
- ⑥ 603 - BITUMINOUS TACK COAT (0.15 GAL./S.Y.)
- ⑦ 602 - BITUMINOUS PRIME COAT (0.35 GAL./S.Y.)
- ⑧ EARTH SUBGRADE
- ⑨ PROPOSED BITUMINOUS PAVEMENT REMOVAL TO FORM A STRAIGHT EDGE

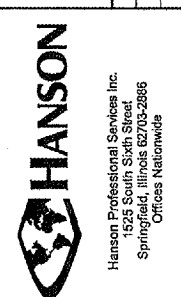


MA023

DATE	REVISION	BY

MARSHALL COUNTY AIRPORT  
LACON, ILLINOIS

Project No. B11-06THG-0800	Drawn R-121CON.DWG	Date 10/11/05
Scale 1" = 50'		
LAYOUT B.A.K.	10/11/05	
DRAWN B.A.K.	10/11/05	
REVIEWED C.A.H.	xx/xx/xx	

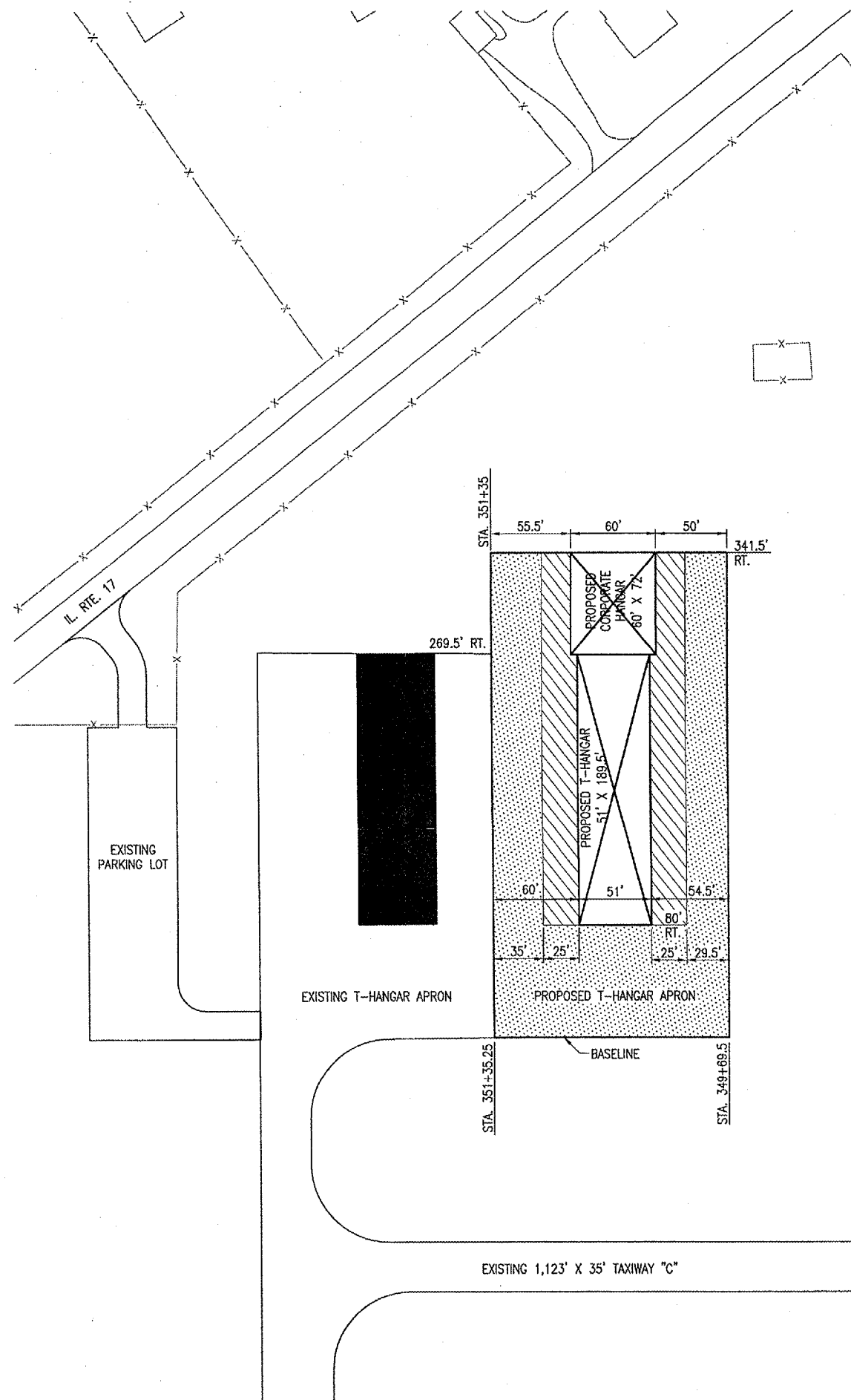


PROPOSED T-HANGAR  
ACCESS TAXWAY  
PROPOSED  
CONSTRUCTION  
PLAN

6

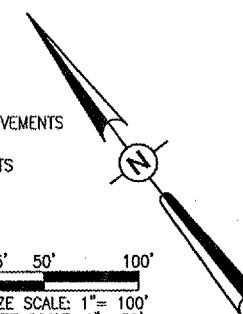
6 of 20 sheets

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PROPOSED PARTICIPATION QUANTITIES		
ITEM	FEDERAL/STATE/LOCAL	FEDERAL/LOCAL
SEPARATION FABRIC	4,153 S.Y.	690 S.Y.
OVERSIZED AGGREGATE	1,919 TON	319 TON
CRUSHED AGG. BASE CSE.	1,674 TON	278 TON
BITUMINOUS PRIME COAT	1,442 GAL	240 GAL
BITUMINOUS TACK COAT	613 GAL	102 GAL
BITUMINOUS BASE COURSE	613 TON	102 TON
BITUMINOUS SURFACE COURSE	365 TON	61 TON

- LEGEND**
- EXISTING IMPROVEMENTS
  - PROPOSED IMPROVEMENTS
  - EXISTING BUILDINGS
  - PROPOSED BUILDINGS
  - PROPOSED FEDERAL/STATE/LOCAL PAVEMENT IMPROVEMENTS
  - PROPOSED FEDERAL/LOCAL PAVEMENT IMPROVEMENTS



DATE	REVISION	BY

**MARSHALL COUNTY AIRPORT  
LACON, ILLINOIS**

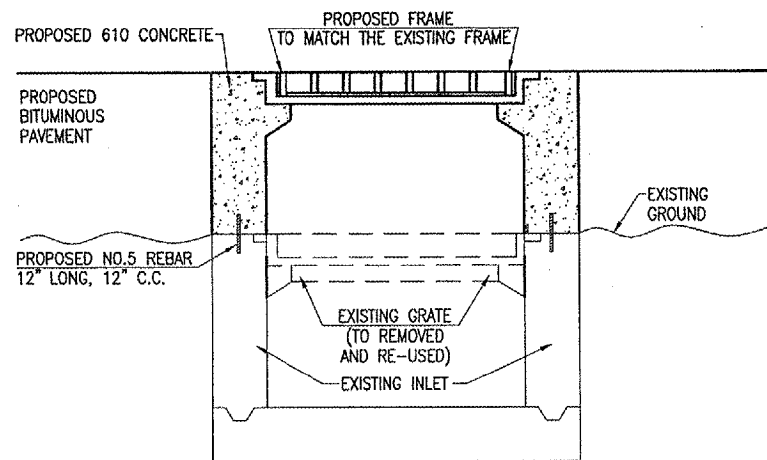
IL. PROJ.: C75-3542 A.I.P. PROJ.: 3-17-0059-B8

HB. Project No. 811-06THGD.0800 Drawing: R-101SIT.DWG Scale: 1"=50' Date: 10/11/05	LAYOUT: B.A.K. 10/11/05 DRAWN: B.A.K. 10/11/05 REVIEWED: C.A.H. xx/xx/xx
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**PROPOSED T-HANGAR  
ACCESS TAXIWAY**

PROPOSED PARTICIPATION PLAN



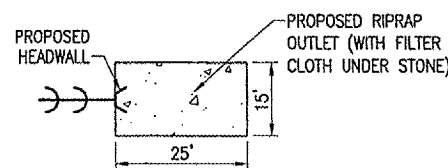
**PROPOSED INLET ADJUSTMENT DETAIL**  
"NOT TO SCALE"

**RIPRAP NOTES**

THE PROPOSED RIPRAP WILL BE PLACED TO THE DIMENSIONS AS SHOWN ON THIS SHEET AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE PROPOSED RIPRAP WILL BE SIZE RR-4 AND WILL BE CONSIDERED PART OF THE HEADWALL INSTALLATION.

THE BED OF THE RIPRAP WILL BE 12" IN DEPTH AND SHALL BE TRIMMED AND SHAPED TO CONFORM WITH THE FINISHED GRADES.

INSTALLATION OF FILTER FABRIC WILL BE REQUIRED UNDER THE RIPRAP. THE FILTER FABRIC MATERIAL WILL BE INCLUDED AS PART OF THE HEADWALL INSTALLATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



**RIPRAP DETAIL**  
"NOT TO SCALE"

- LEGEND**
- [Symbol] EXISTING IMPROVEMENTS
  - [Symbol] PROPOSED IMPROVEMENTS
  - [Symbol] EXISTING BUILDINGS
  - [Symbol] PROPOSED BUILDINGS
  - [Symbol] EXISTING FENCE
  - [Symbol] EXISTING R.C.C.P.
  - [Symbol] PROPOSED R.C.C.P.
  - [Symbol] EXISTING UNDERDRAIN
  - [Symbol] EXISTING DRAINAGE DITCH
  - [Symbol] PROPOSED DRAINAGE DITCH
  - [Symbol] EXISTING HEADWALL
  - [Symbol] PROPOSED HEADWALL
  - [Symbol] EXISTING END SECTION
  - [Symbol] EXISTING INLET
  - [Symbol] EXISTING INSPECTION HOLE
  - [Symbol] EXISTING ELECTRICAL CABLE
  - [Symbol] EXISTING ELECTRICAL DUCT
  - [Symbol] EXISTING BASE MOUNTED TAXIWAY LIGHT
  - [Symbol] EXISTING STAKE MOUNTED TAXIWAY LIGHT
  - [Symbol] EXISTING ELEVATED TAXIWAY REFLECTOR
  - [Symbol] EXISTING PARKING LOT LIGHT
  - [Symbol] EXISTING DISTRIBUTION PANEL
  - [Symbol] EXISTING ELECTRICAL TRANSFORMER
  - [Symbol] EXISTING ELECTRICAL MANHOLE

**NOTES**

THE EXISTING INLET NO. 1 & 2 WILL BE ADJUSTED AS SHOWN ON THE DETAIL ON THIS SHEET AND IN ACCORDANCE TO THE SPECIAL PROVISIONS.

THE EXISTING GRATE WILL BE REMOVED AND STORED UNTIL THE PROPOSED FRAME AND CONCRETE ADJUSTMENT IS INSTALLED. UPON COMPLETION OF THE CONCRETE CURE TIME THE GRATE WILL BE REPLACED UPON THE COMPLETED INLET ADJUSTMENT.

THE PROPOSED INLET ADJUSTMENT WILL BE PAID FOR UNDER THE FOLLOWING:  
AR751940 "ADJUST INLET" \_\_\_\_\_ 2 EACH.

INLET ADJUSTMENT TABLE		
INLET NO.	EXISTING TOP ELEVATION	PROPOSED TOP ELEVATION
1	536.23	537.00
2	536.26	537.00

**RCC PIPE NOTES**

ITEM 701-2.5 ADD THE FOLLOWING:

BITUMINOUS MASTIC COMPOUND IS PERMITTED FOR USE ON THE PIPE INSTALLATION AND WILL MEET THE FOLLOWING SPECIFICATIONS:

**MASTIC JOINT SEALER FOR PIPE.** COLD-APPLIED BITUMINOUS SEALER FOR CULVERT AND SEWER PIPE JOINTS SHALL BE A BITUMINOUS MATERIAL OF SUCH CONSISTENCY THAT IT CAN BE APPLIED TO THE JOINTS VIA TROWEL WHEN THE TEMPERATURE OF THE AIR IS BETWEEN 20° AND 100°F. THE BITUMINOUS MATERIAL SHALL ADHERE TO THE CONCRETE SO AS TO MAKE A WATER-TIGHT SEAL AND SHALL NOT FLOW, CRACK OR BECOME BRITTLE WHEN EXPOSED TO THE ATMOSPHERE.

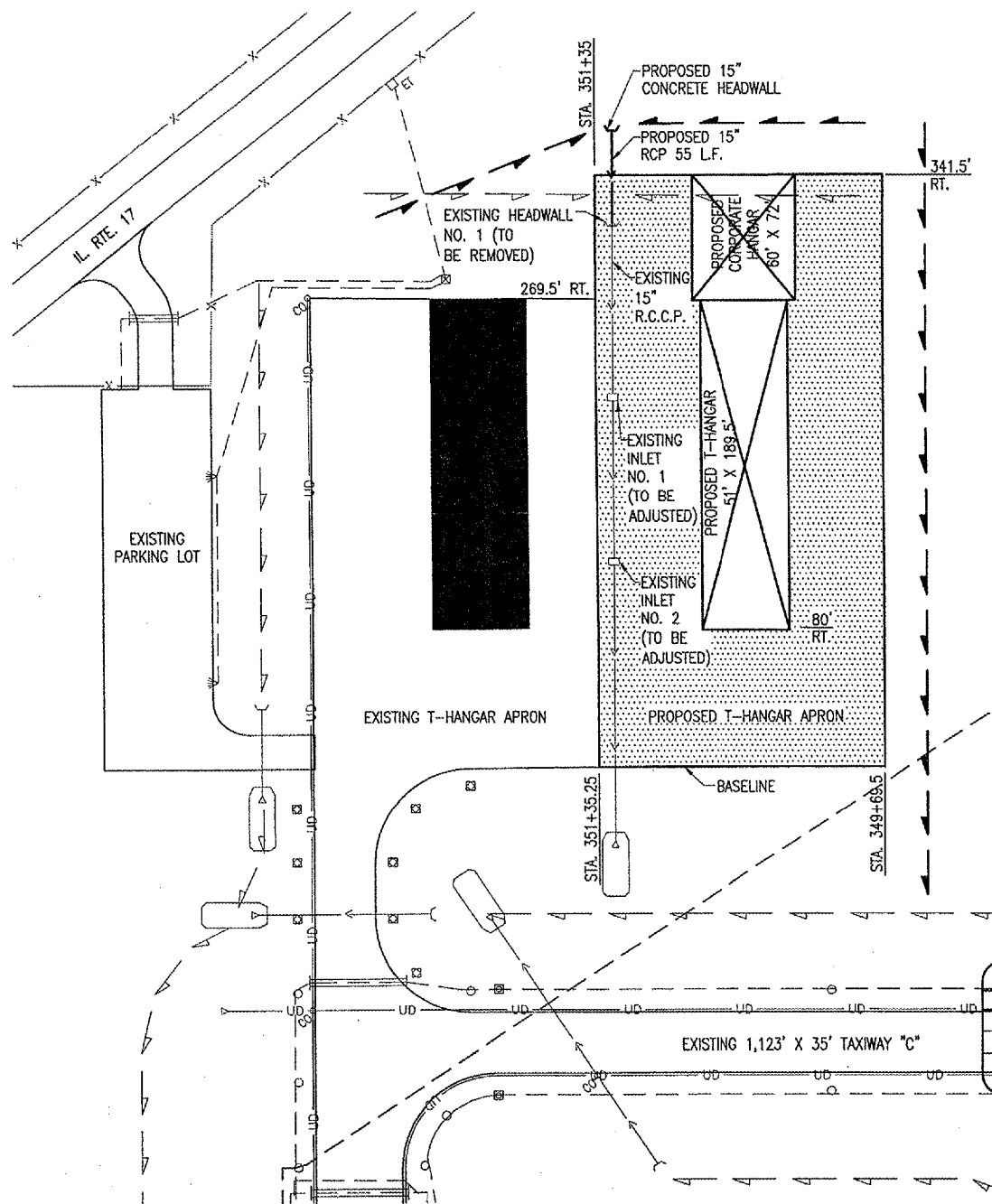
THE BITUMINOUS SEALER SHALL MEET THE FOLLOWING SPECIFIC REQUIREMENTS:

PENETRATION, 77F, 150G., 5 SEC., WITH CONE	175-300
LOSS O HEATING, 325°F, 5 HR., 50 G., PERCENT	20 MAX.
INORGANIC CONTENT (COMPLETE BURN 1200° TO 1400°F) PERCENT	15-20
FLOW AT 140°F, CENTIMETERS	0
PLIABLE AT 0°F	YES

THE BITUMINOUS SEALER SHALL BE DELIVERED TO THE PROJECT IN SUITABLE CONTAINERS FOR HANDLING AND SHALL BE SEALED OR OTHERWISE PROTECTED FROM CONTAMINATION. THE CONTAINER SHALL SHOW THE BRAND NAME, NET VOLUME, OR WEIGHT AND THE REQUIREMENTS FOR APPLICATION."

ITEM 701-3.7 ADD THE FOLLOWING

THE CONTRACTOR MAY USE THE IDOT CA-7 DESCRIBED UNDER SECTION 701-3.3 TO BACKFILL THE PIPE FROM BEDDING TO EARTH SUBGRADE ELEVATION. THE CONTRACTOR WILL BE REQUIRED TO MAKE A MINIMUM OF THREE PASSES WITH VIBRATORY EQUIPMENT TO ENSURE CONSOLIDATION OF THE BACKFILL MATERIAL TO THE SATISFACTION OF THE RESIDENT ENGINEER. IF CA-7 IS USED, THERE WILL BE NO REQUIREMENT FOR COMPACTION ACCEPTANCE TESTING.

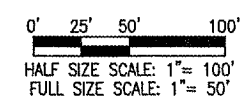


THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND 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.

HEADWALL TABLE				
HEADWALL NO.	EXISTING FLOWLINE	EXISTING STA./OFFSET	PROPOSED FLOWLINE	PROPOSED STA./OFFSET
1	534.53	151+25.86/311.60' RT.	534.67	151+25.86/366.60' RT.

DRAINAGE QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR701515	15" RCP, CLASS IV	L.F.	63
AR751940	ADJUST INLET	EACH	2
AR752615	CONCRETE HEADWALL 15"	EACH	1
AR752903	REMOVE HEADWALL	EACH	1



BY \_\_\_\_\_

REVISION \_\_\_\_\_

DATE \_\_\_\_\_

**MARSHALL COUNTY AIRPORT  
LACON, ILLINOIS**

IL PROJ.: C75-3542 A.I.P. PROJ.: 3-17-0059-BB

FILE PROJECT NO. 811-06THGD 0800  
 DRAWING NO. R-131DRN.DWG  
 SCALE 1"=50'  
 DATE 10/17/05

LAYOUT	BAK.	10/17/05
DRAWN	BAK.	10/17/05
REVIEWED	CAH.	xx/xx/xx

**HANSON**  
 Hanson Professional Services Inc.  
 1000 S. State Street  
 Springfield, Illinois 62703-2886  
 Offices Nationwide

**PROPOSED T-HANGAR  
ACCESS TAXIWAY**

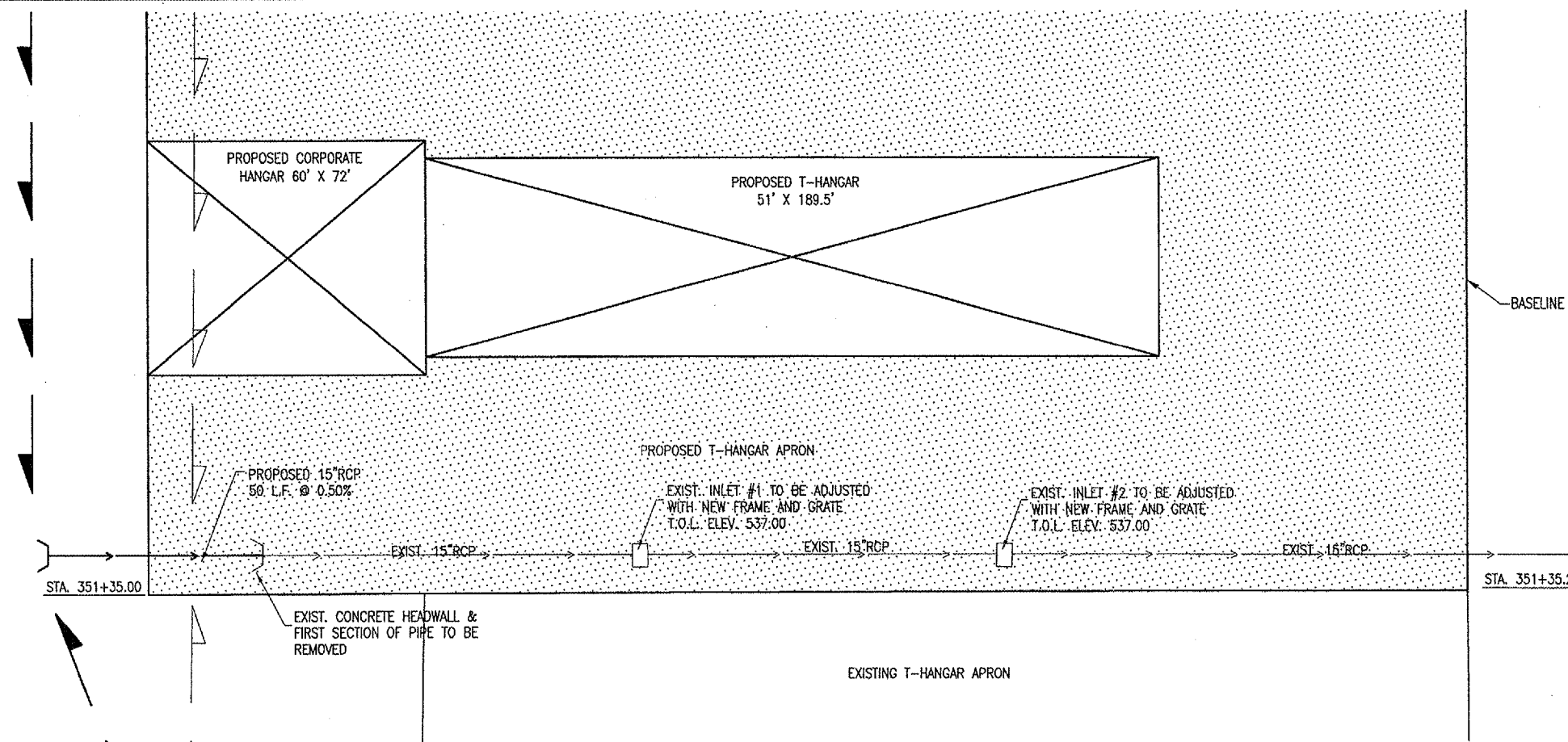
PROPOSED  
DRAINAGE  
PLAN

8 of 20 sheets

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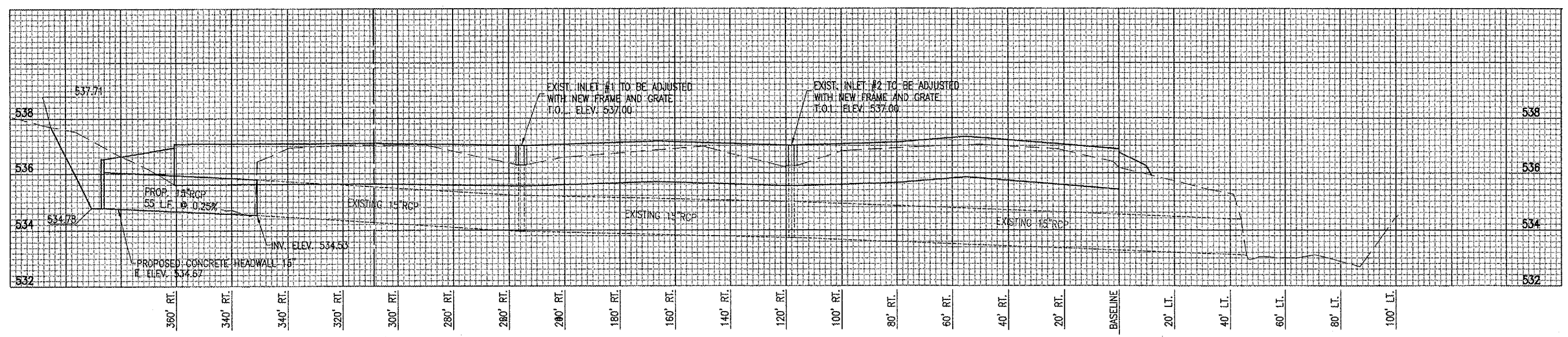


**LEGEND MA023**

- EXISTING IMPROVEMENTS
- PROPOSED IMPROVEMENTS
- EXISTING BUILDINGS
- PROPOSED BUILDINGS
- EXISTING R.C.C.P.
- PROPOSED R.C.C.P.
- EXISTING DRAINAGE DITCH
- PROPOSED DRAINAGE DITCH
- EXISTING HEADWALL
- PROPOSED HEADWALL
- EXISTING END SECTION
- EXISTING INLET

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

NOTE: THE FIRST SECTION OF PIPE ATTACHED TO THE EXISTING HEADWALL WILL BE REMOVED AS PART OF THE PAY ITEM AR752903...HEADWALL REMOVAL. FOR DESIGN PURPOSES 8 L.F. OF PIPE WAS CONSIDERED FOR THE SECTION OF PIPE REMOVED ALONG WITH HEADWALL. THE QUANTITY TO BE PAID SHALL BE THE MEASURED DISTANCE FROM 366.6' RT. TO THE END OF THE FIRST WHOLE PIPE SECTION BEYOND THE EXISTING HEADWALL.



BY	REVISION	DATE

MARSHALL COUNTY AIRPORT  
 LAGON, ILLINOIS

A.I.P. PROJ.: 3-17-0059-88  
 I.L. PROJ.: C75-3542

Project No. 811-06THG.0800	DATE: 10/13/05
Element: R-701PNP.DWG	SCALE: 1" = 20'
Scale: 1" = 20'	DATE: 10/13/05
DATE: 10/13/05	LAYOUT: B.A.K. 10/13/05
LAYOUT: B.A.K. 10/13/05	DRAWN: B.A.K. 10/13/05
DRAWN: B.A.K. 10/13/05	REVIEWED: C.A.H. xx/xx/xx
REVIEWED: C.A.H. xx/xx/xx	



PROPOSED T-HANGAR  
 ACCESS TAXIWAY

PROPOSED  
 PIPE  
 PLAND AND PROFILE

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 PAVEMENT FOR USE.

901-3.4 MAINTENANCE OF SEEDED 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 \_\_\_\_ 1.8 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 SEEDED AREA. DISTURBED AREAS OUTSIDE THE GRADING LIMITS SHALL ALSO BE MULCHED AND PARTICIPATION WILL BE THE SAME AS FOR SEEDED 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.

908-3.1 MULCHING: THE HYDRAULIC MULCH SHALL BE APPLIED AS A SLURRY OF 2,500 POUNDS OF MULCH AND NOT LESS THAN 2,500 GALLONS OF WATER PER ACRE.

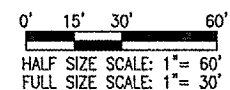
908-3.4 STRUCTURE CLEANING: AFTER THE PROPOSED MULCH HAS BEEN APPLIED, THE CONTRACTOR WILL CLEAN THE MULCH OFF ALL STRUCTURES (DRAINAGE, ELECTRICAL, LIGHTS, ETC.).

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

THE PROPOSED MULCHING WILL BE PAID FOR UNDER ITEMS: AR908510 MULCHING \_\_\_\_ 1.8 ACRES

LEGEND

- EXISTING IMPROVEMENTS
- PROPOSED IMPROVEMENTS
- EXISTING BUILDINGS
- PROPOSED BUILDINGS
- PROPOSED GRADING AREA
- EXISTING FENCE
- EXISTING R.C.C.P.
- PROPOSED R.C.C.P.
- EXISTING DRAINAGE DITCH
- PROPOSED DRAINAGE DITCH
- EXISTING HEADWALL
- PROPOSED HEADWALL
- EXISTING END SECTION
- EXISTING INLET
- EXISTING GRADE
- PROPOSED GRADE
- PROPOSED GRADING AND SEEDING LIMITS



DATE	REVISION	BY

**MARSHALL COUNTY AIRPORT**  
LACON, ILLINOIS

IL PROJ.: C75-3542 A.I.P. PROJ.: 3-17-0059-BB

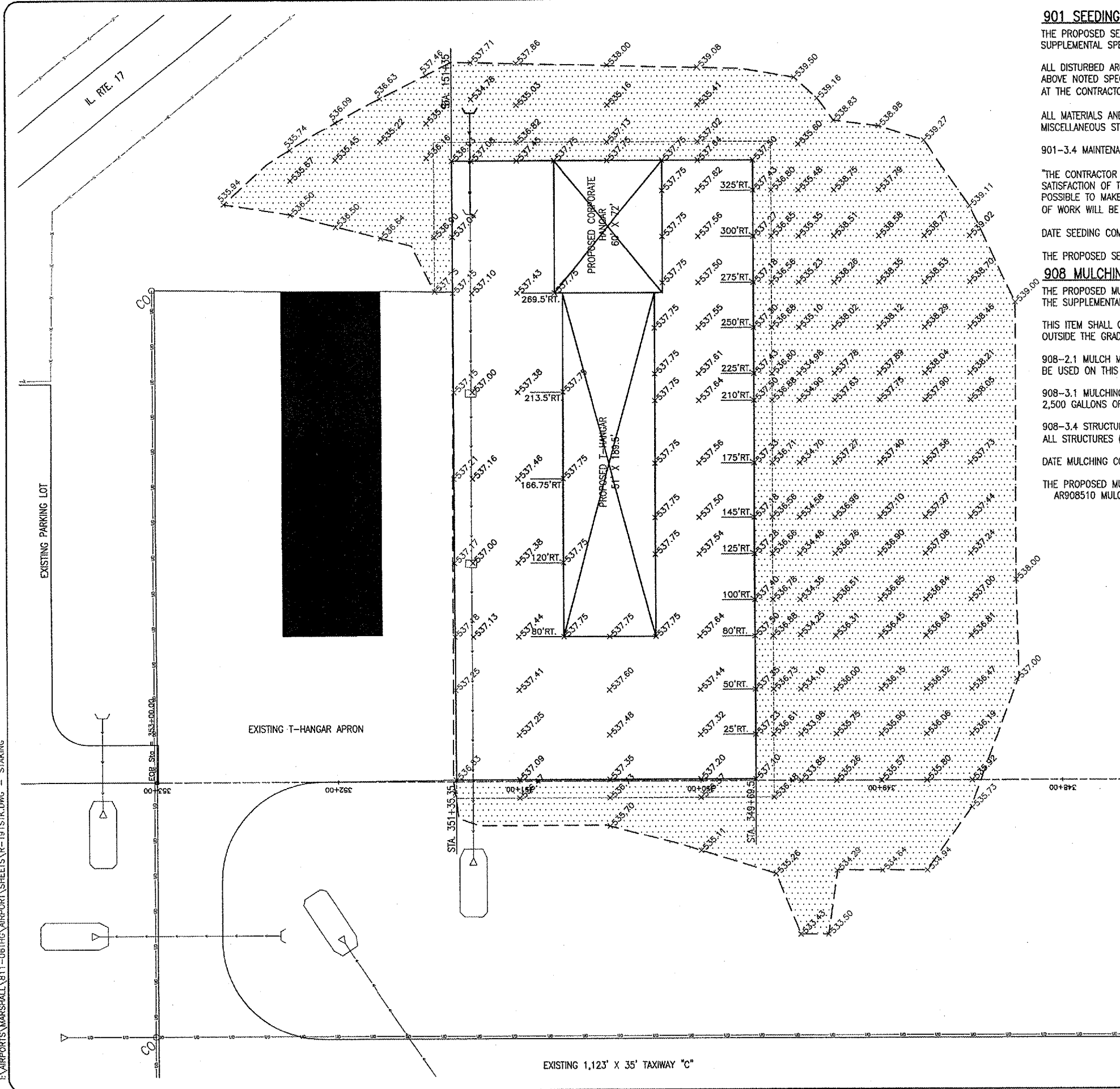
HEL Project No. 811-06THGD 0800	10/18/05
Elevation R-191STK.DWG	B.A.K. 10/18/05
Scale 1" = 30'	B.A.K. 10/18/05
Date 10/18/05	C.A.H. xx/xx/xx
LAYOUT	
DRAWN	
REVIEWED	

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

**PROPOSED T-HANGAR ACCESS TAXIWAY**

PROPOSED STAKING PLAN

JAN 12, 2006 2:29 PM CAH  
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DATE	REVISION	BY

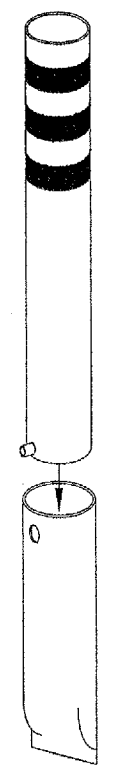
**MARSHALL COUNTY AIRPORT  
LACON, ILLINOIS**

IL PROJ.: C75-3542 A.I.P. PROJ.: 3-17-0059-B8

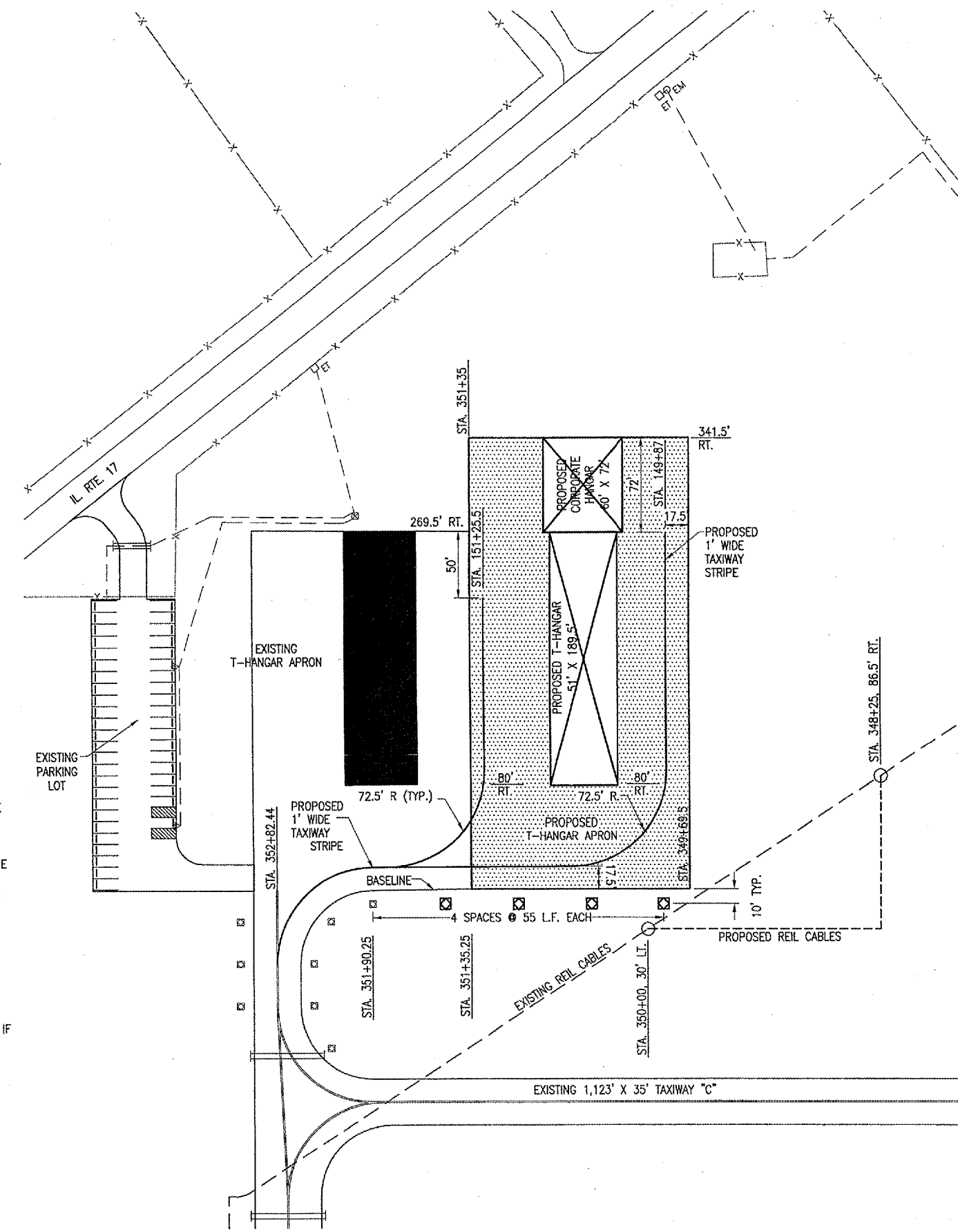
Project No. 811-08THGD-0800 Drawing No. R-151MRK.DWG Scale 1" = 50' Date 10/17/05	LAYOUT B.A.K. 10/17/05 DRAWN B.A.K. 10/17/05 REVIEWED C.A.H. xx/xx/xx
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**HANSON**  
 Hanson Professional Services Inc.  
 1025 South Main Street  
 Springfield, Illinois 62703-2686  
 Offices Nationwide

**PROPOSED T-HANGAR  
ACCESS TAXIWAY  
MARKING  
PLAN**



**PROPOSED RETROREFLECTIVE MARKER DETAIL  
(SOIL MOUNT)  
"NOT TO SCALE"**



**MARKING 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.

ALL PROPOSED TAXIWAY MARKING WILL BE 1' WIDE, SOLID AND YELLOW IN COLOR.

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.

ALL PROPOSED MARKING SHALL BE APPLIED WITH A REFLECTIVE MEDIA DURING THE SECOND APPLICATION AS SPECIFIED IN THE SPECIAL PROVISIONS.

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

THE PROPOSED PAVEMENT MARKING SHALL BE PAID FOR UNDER ITEM: AR620520 "PAVEMENT MARKING-WATERBORNE" \_\_\_\_\_ 817 S.F.

**LEGEND**

- EXISTING IMPROVEMENTS
- PROPOSED IMPROVEMENTS
- EXISTING BUILDINGS
- PROPOSED BUILDINGS
- EXISTING FENCE
- EXISTING MARKING
- PROPOSED MARKING
- EXISTING REIL CABLE
- PROPOSED REIL CABLE
- PROPOSED SPLICE CAN
- EXISTING RETROREFLECTIVE MARKER
- PROPOSED RETROREFLECTIVE MARKER

**RELOCATE CABLE**

THE APPROXIMATE LOCATION OF THE EXISTING POWER CABLES TO THE RUNWAY END IDENTIFICATION LIGHTS (REILS) ON RUNWAY END 13 ARE SHOWN ON THIS SHEET. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THESE CABLE PRIOR TO BEGINNING ANY CONSTRUCTION THAT MAY DAMAGE THEM.

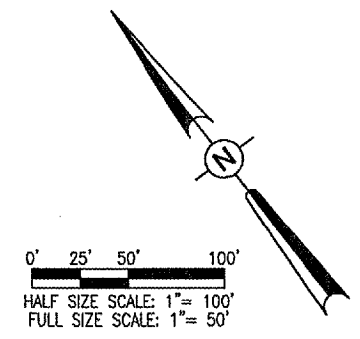
THE LOCATION OF THE TWO PROPOSED SPLICE CANS MAY BE ADJUSTED TO LINE UP WITH THE EXACT LOCATION OF THE EXISTING REIL POWER CABLE. THE CONTRACTOR WILL INSTALL THE PROPOSED POWER CABLE OUTSIDE THE PROPOSED GRADING LIMITS AS SHOWN ON SHEET NO. 10.

THE PROPOSED POWER CABLE WILL BE NO. 4, 600 VOLT, 3 CONDUCTOR, UNDERGROUND CABLE.

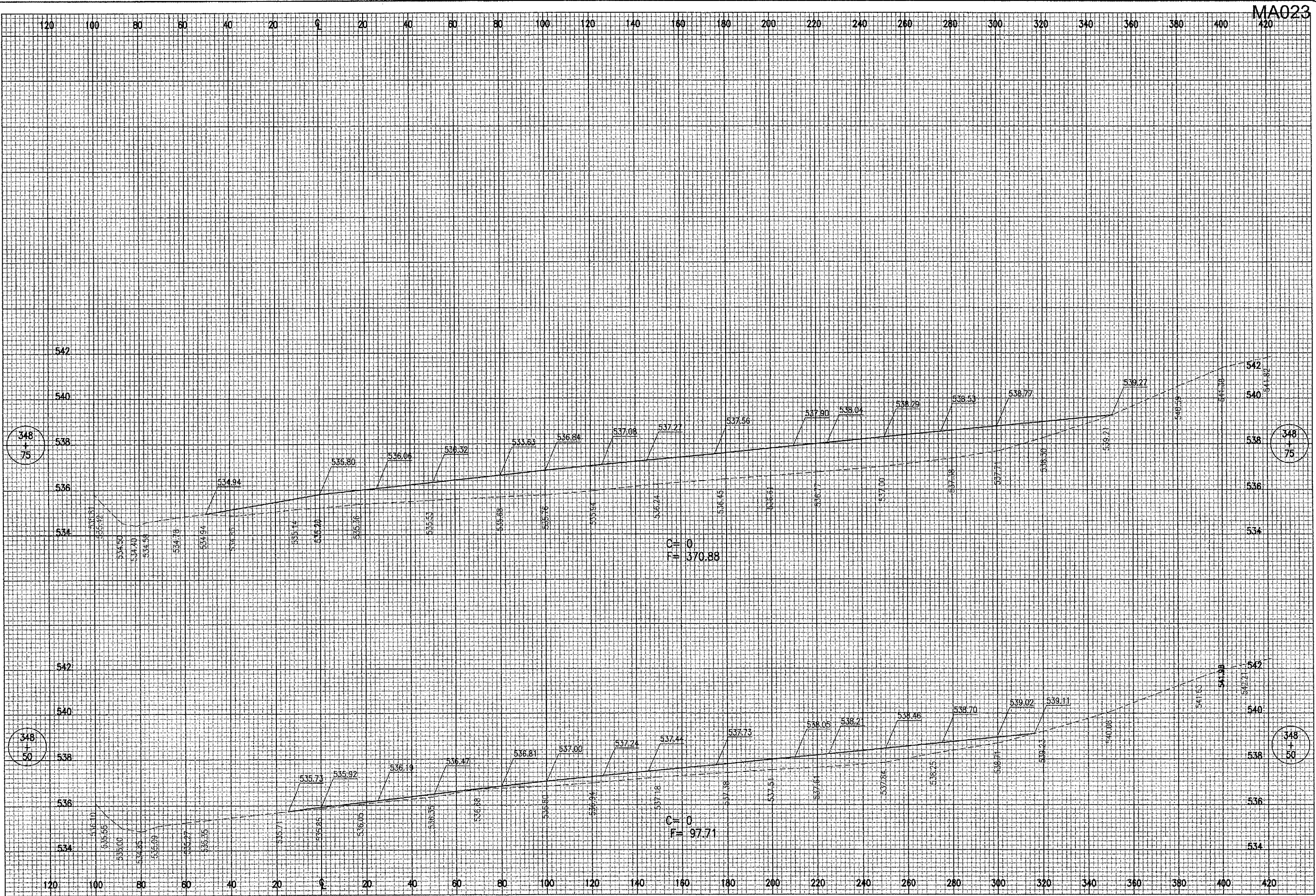
THE PROPOSED POWER CABLE WILL BE SPliced TO THE EXISTING POWER CABLE INSIDE THE TWO SPLICE CANS USING APPROVED SPLICE KITS.

FOR BIDDING PURPOSES ONLY--THE CONTRACTOR WILL CALCULATE HIS BID USING 300 LINEAL FEET OF CABLE BETWEEN THE TWO CANS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED IF DURING CONSTRUCTION THIS LENGTH IS GREATER THAN 300 L.F.

THE TWO SPLICE CANS AND THE PROPOSED POWER CABLE REROUTING WILL BE PAID FOR UNDER ITEM AR108966 "RELOCATE CABLE" \_\_\_\_\_ PER LUMP SUM.



JAN 12, 2006 2:30 PM CAH  
 I:\AIRPORTS\MARSHALL\B1-08THS\AIRPORT\SHEETS\R-300XS.DWG - 348+50 - 348+75



MA023

DATE	REVISION	BY

**MARSHALL COUNTY AIRPORT  
 LACON, ILLINOIS**

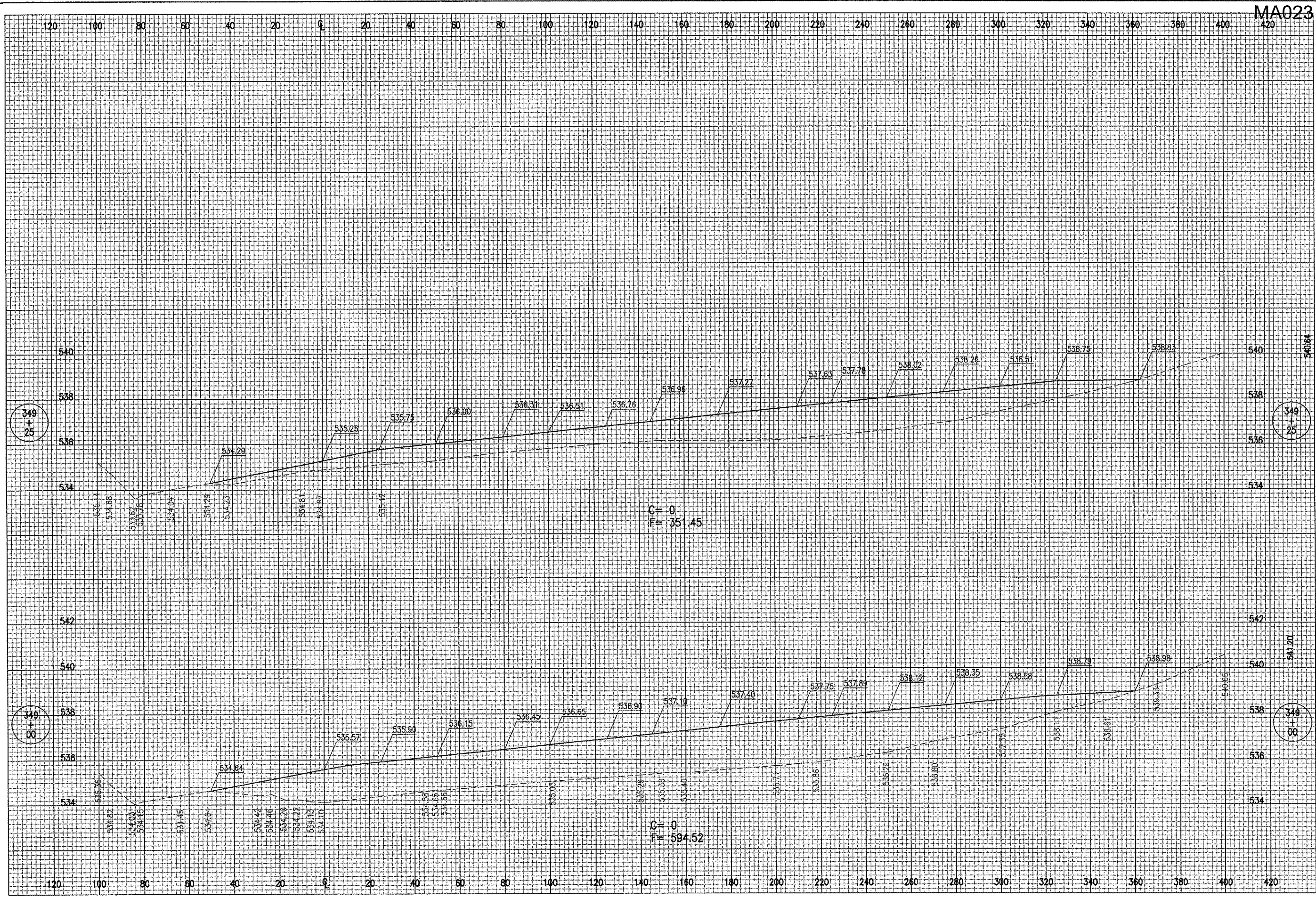
IL PROJ.: C75-3542 A.I.P. PROJ.: 3-17-0059-88

H&I Project No. 811-08THGD-0800 Drawing R-300XS-DMG Scale H. 1" = 20' V. 1" = 2' Date 12/08/05	LAYOUT J.E.O. 12/08/05 DRAWN J.E.O. 12/08/05 REVIEWED C.A.H. xx/xx/xx
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**HANSON**  
 Hanson Professional Services Inc.  
 1525 South Sixth Street  
 Springfield, Illinois 62703-2886  
 Offices Nationwide

**PROPOSED T-HANGAR  
 ACCESS TAXIWAY**  
**PROPOSED CROSS-SECTIONS  
 FOR ACCESS TAXIWAY**  
 STA. 348+50 TO STA. 348+75

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 I:\AIRPORTS\MARSHALL\B11-06THC\AIRPORT\SHEETS\R-301XS.DWG - 349+25



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**MARSHALL COUNTY AIRPORT**  
**LACON, ILLINOIS**

A.I.P. PROJ.: 3-17-0059-B8  
 I.L. PROJ.: C75-3542

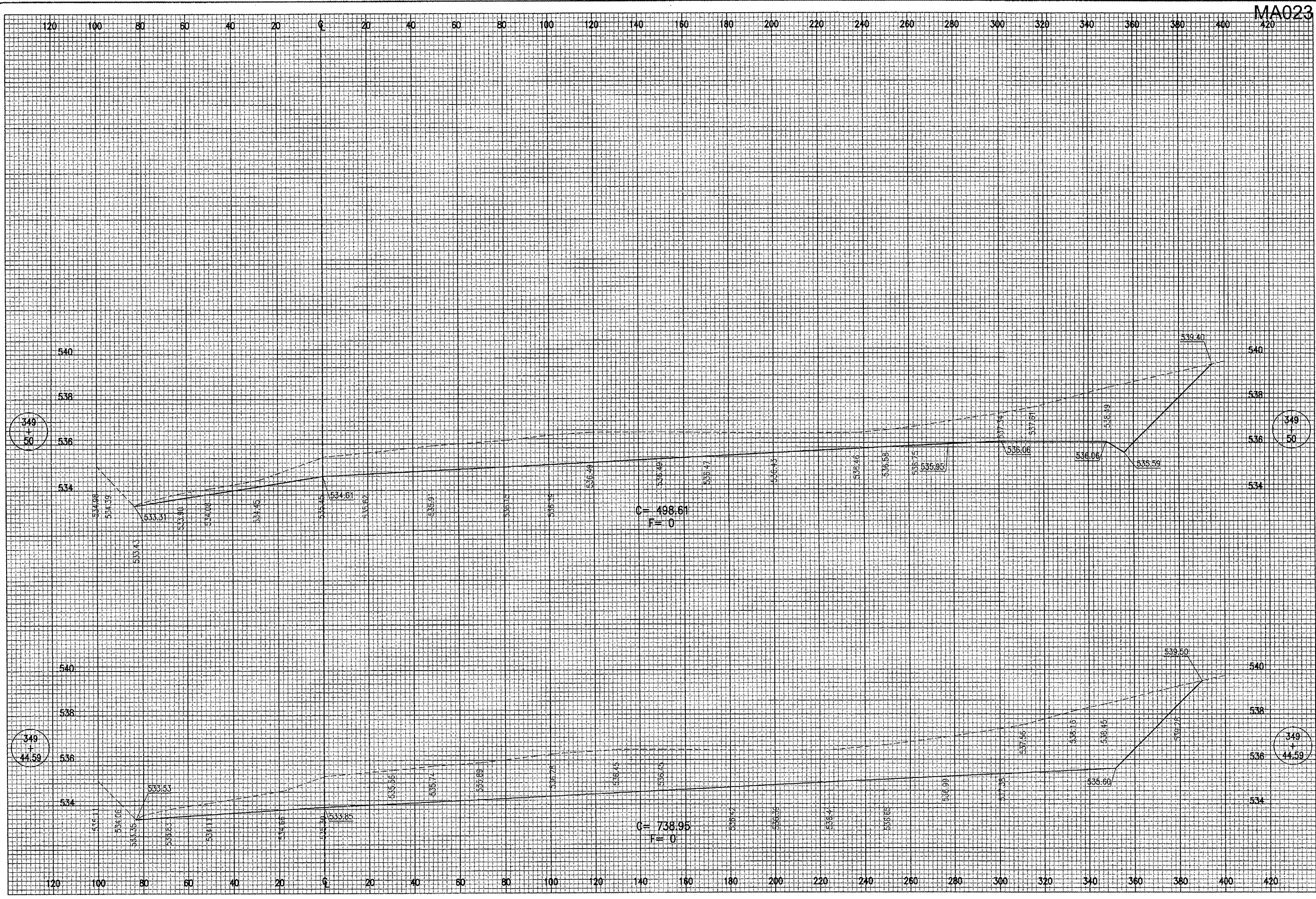
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LAYOUT	J.E.C.	12/08/05	
DRAWN	J.E.C.	12/08/05	
REVIEWED	C.A.H.	xx/xx/xx	



**PROPOSED T-HANGAR ACCESS TAXIWAY**

**PROPOSED CROSS-SECTIONS FOR ACCESS TAXIWAY**

STA. 349+00 TO STA. 349+25



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DATE	REVISION	BY

**MARSHALL COUNTY AIRPORT  
 LACON, ILLINOIS**

IL PROJ.: C75-3542      A.I.P. PROJ.: 3-17-0059-88

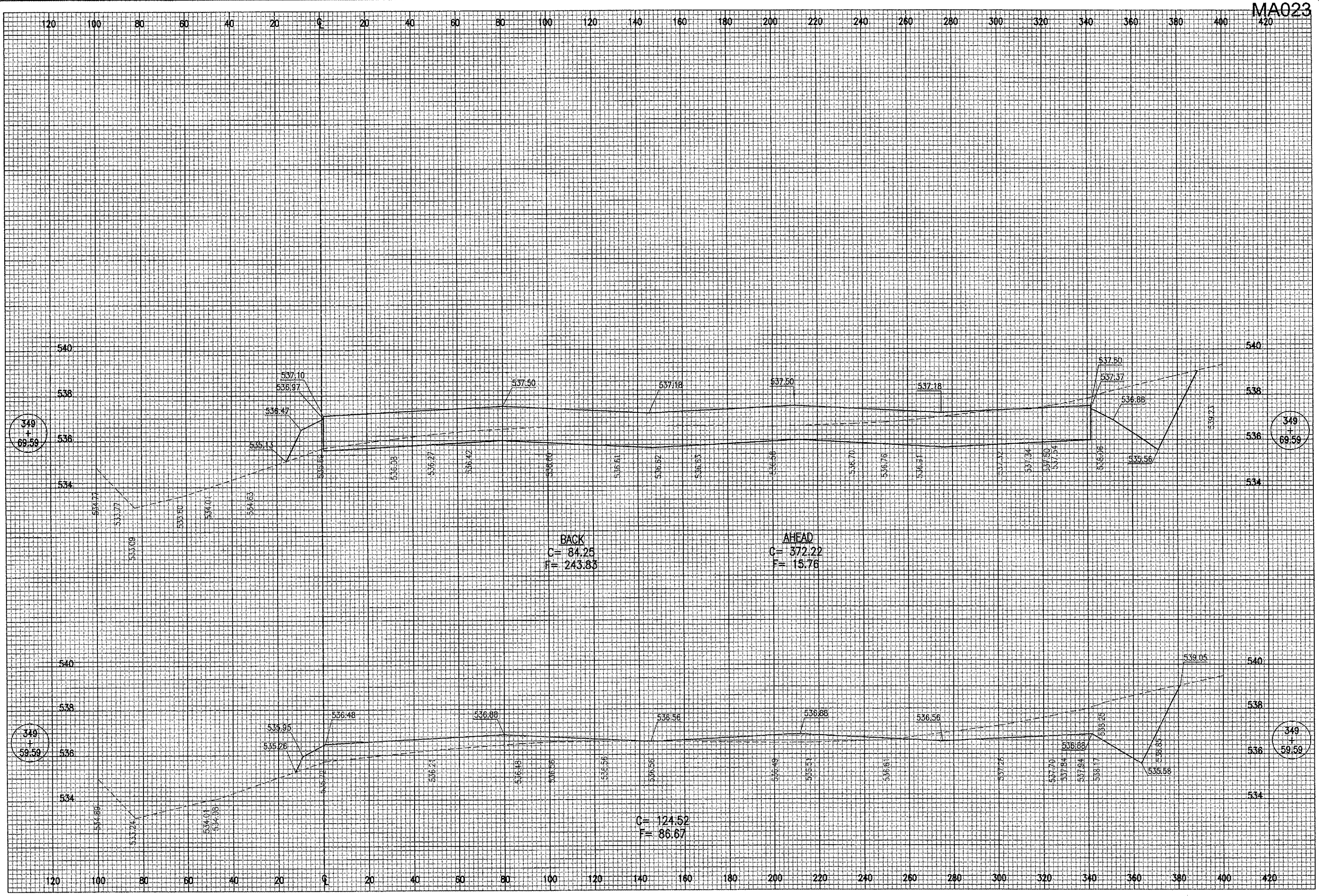
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**PROPOSED T-HANGAR  
 ACCESS TAXIWAY**

**PROPOSED CROSS-SECTIONS  
 FOR ACCESS TAXIWAY**

STA. 349+44.59 TO STA. 349+50



DATE	REVISION	BY

**MARSHALL COUNTY AIRPORT  
 LAGON, ILLINOIS**

IL PROJ.: C75-3542      A.I.P. PROJ.: 3-17-0059-B8

HE Project No. B11-06THCV.0800  
 Filename: R-303XS.DWG  
 Scale: H: 1" = 20', V: 1" = 2'  
 Date: 12/08/05

LAYOUT	J.E.O.	12/08/05
DRAWN	J.E.O.	12/08/05
REVIEWED	C.A.H.	xx/xx/xx



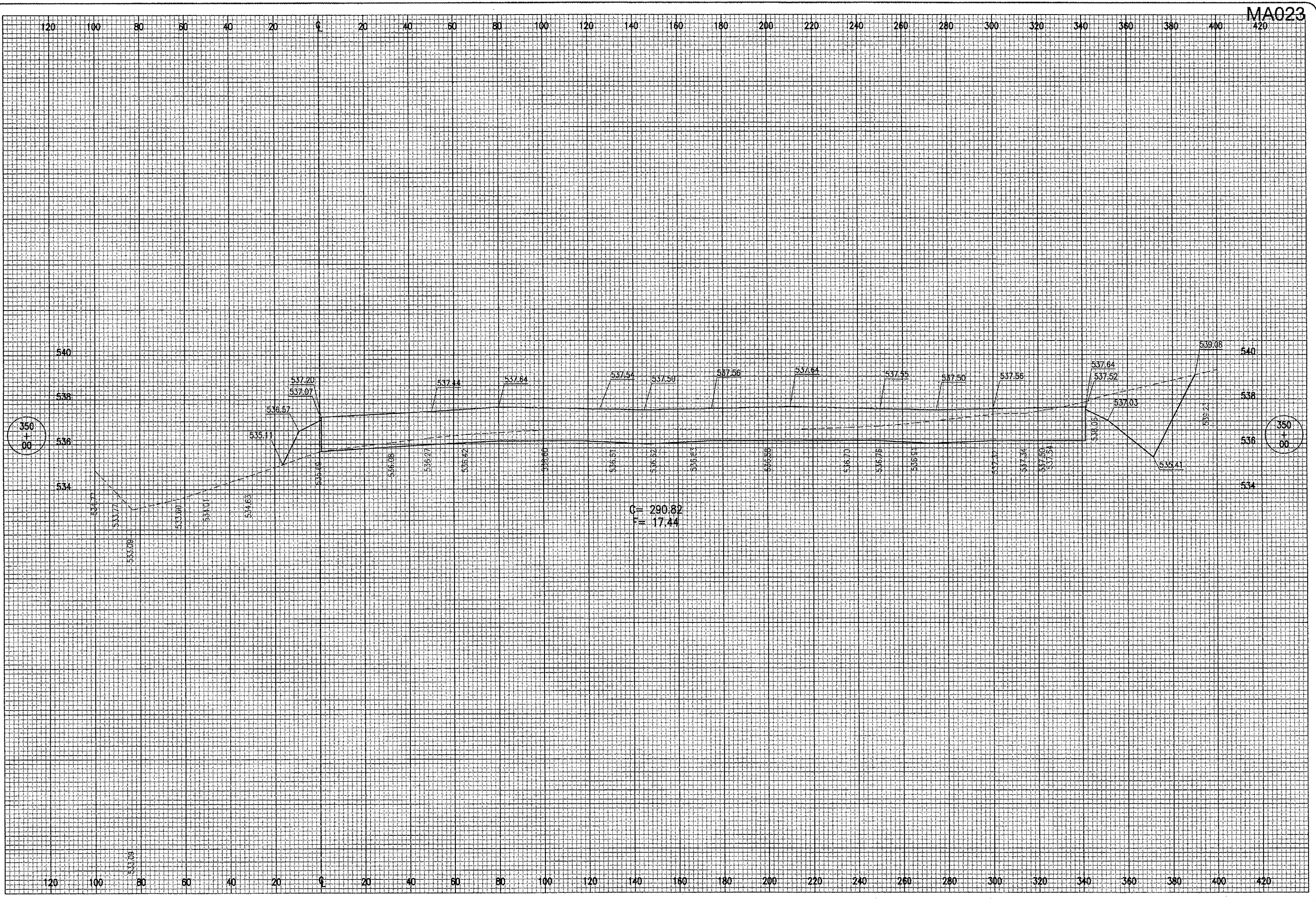
**HANSON**  
 Hanson Professional Services Inc.  
 654 S. 17th Street  
 Springfield, Illinois 62703-2886  
 Offices Nationwide

**PROPOSED T-HANGAR  
 ACCESS TAXIWAY**

**PROPOSED CROSS-SECTIONS  
 FOR ACCESS TAXIWAY**

STA. 349+59.59 TO STA. 349+69.59

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**MARSHALL COUNTY AIRPORT  
 LACON, ILLINOIS**

ILL. PROJ.: C75-3542 A.I.P. PROJ.: 3-17-0059-B8

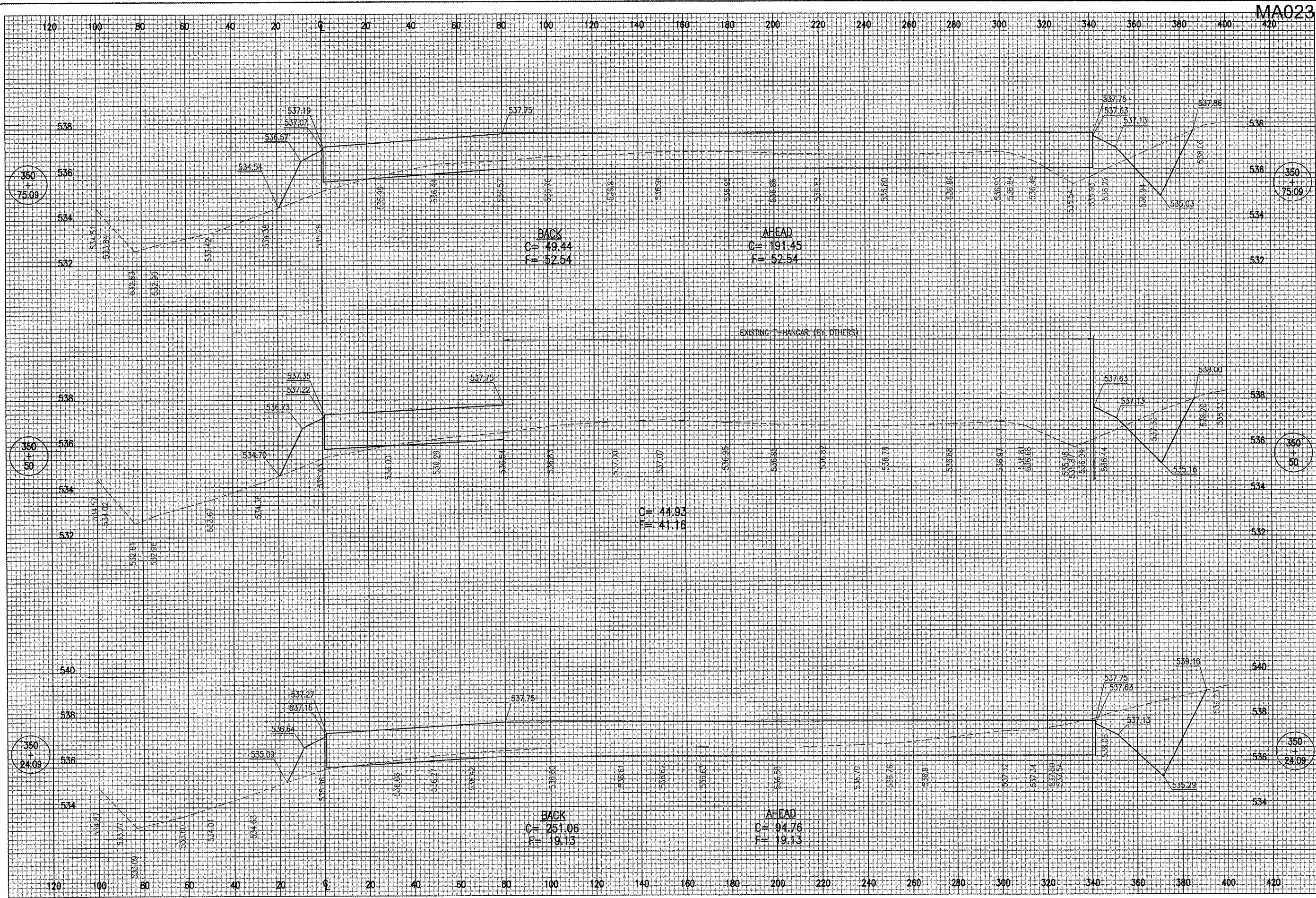
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Revision	R-304XS.DWG
Scale	H. 1" = 20' V. 1" = 2'
Date	12/08/05
LAYOUT	J.E.O. 12/08/05
DRAWN	J.E.O. 12/08/05
REVIEWED	C.A.H. xx/xx/xx



Hanson Professional Services Inc.  
 1526 South Skyway  
 Springfield, Illinois 62709-2886  
 Offices Nationwide

**PROPOSED T-HANGAR  
 ACCESS TAXIWAY**  
 PROPOSED CROSS-SECTIONS  
 FOR ACCESS TAXIWAY  
 STA. 349+75 TO STA. 350+00





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DATE	REVISION	BY

**MARSHALL COUNTY AIRPORT  
 LACON, ILLINOIS**

ILL. PROJ.: C75-3542 A.I.P. PROJ.: 3-17-0059-B8

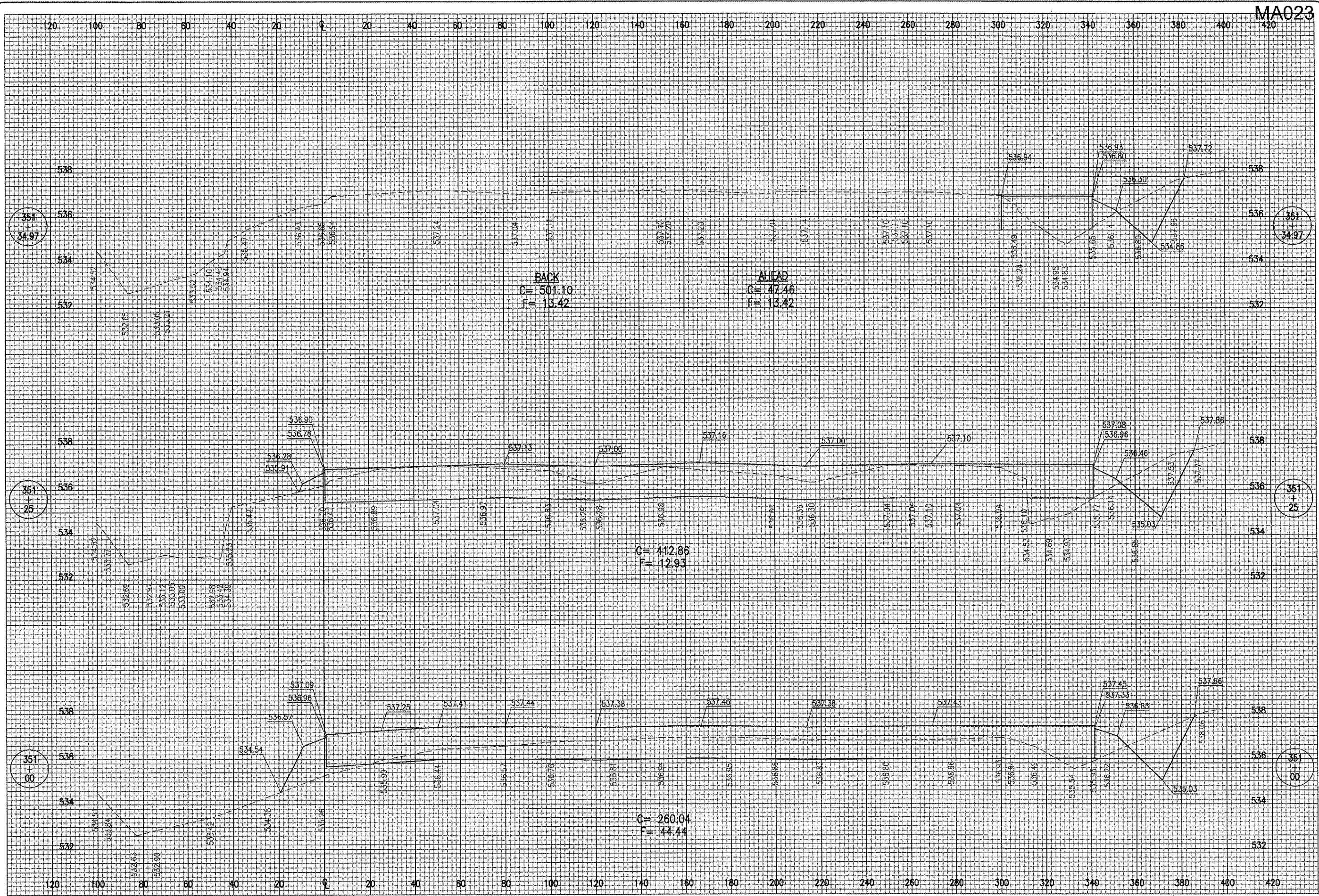
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Filename R-305XS.DWG	
Scale: H. 1"=20' V. 1"= 2'	
Date: 12/08/05	
LAYOUT	J.E.O. 12/08/05
DRAWN	J.E.O. 12/08/05
REVIEWED	C.A.H. xx/xx/xx



**PROPOSED T-HANGAR  
 ACCESS TAXIWAY**

PROPOSED CROSS-SECTIONS  
 FOR ACCESS TAXIWAY  
 STA. 350+24.09 TO STA. 350+75.09

JAN 12, 2006 2:32 PM CAH  
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DATE	REVISION	BY

**MARSHALL COUNTY AIRPORT**  
**LACON, ILLINOIS**

IL PROJ.: C75-3542 A.I.P. PROJ.: 3-17-0059-88

File Project No. 811-06THC.DWG	12/08/05
Filename R-306XS.DWG	J.E.O.
Scale H. 1" = 20' V. 1" = 2'	12/08/05
Date 12/08/05	C.A.H.
LAYOUT	xx/xx/xx
DRAWN	
REVIEWED	

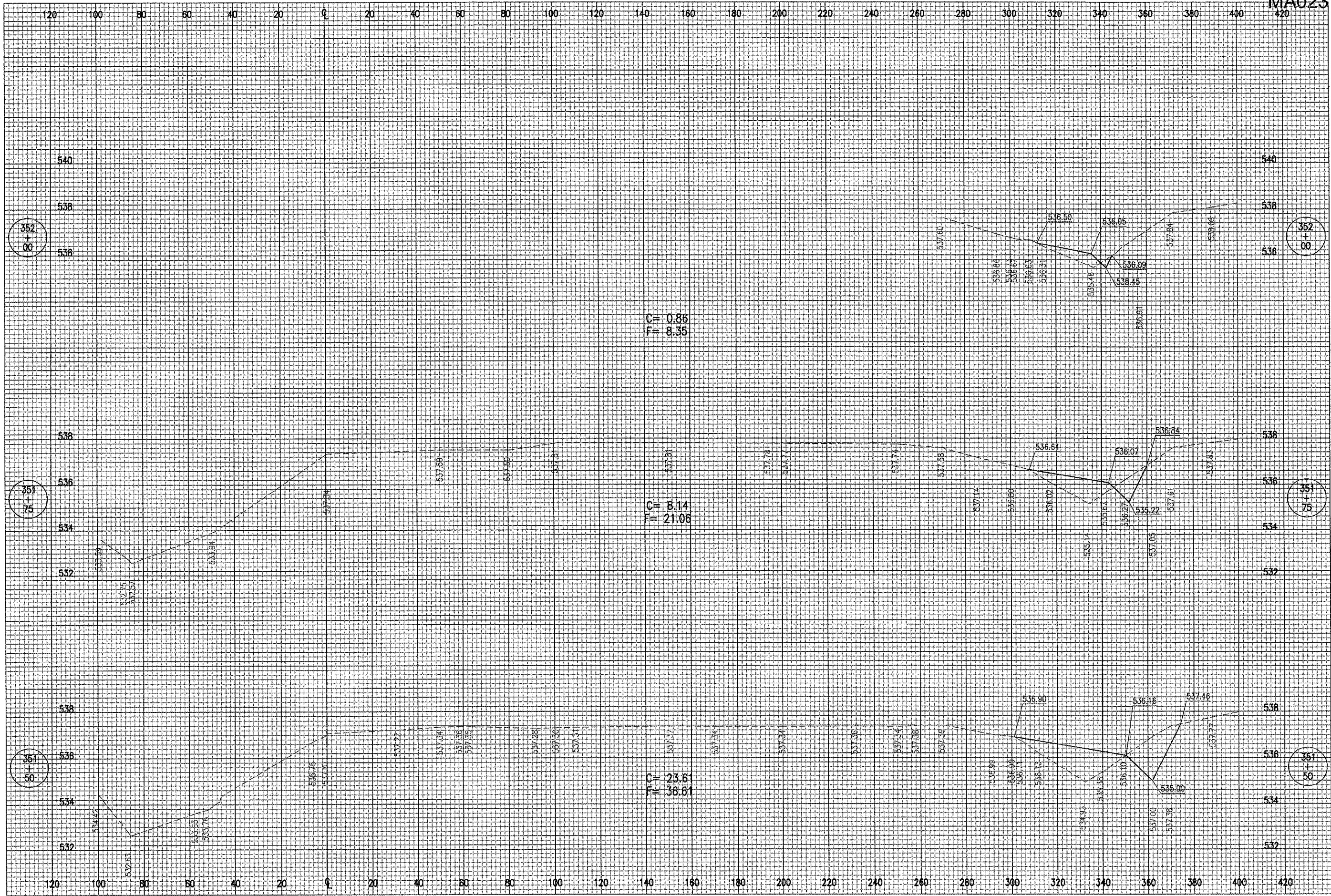


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**PROPOSED T-HANGAR**  
**ACCESS TAXIWAY**

**PROPOSED CROSS-SECTIONS**  
**FOR ACCESS TAXIWAY**  
**STA. 351+00 TO STA. 351+34.97**

MA023



DATE	REVISION	BY

**MARSHALL COUNTY AIRPORT  
 LACON, ILLINOIS**

IL PROJ.: C75-3542 A.I.P. PROJ.: 3-17-0059-08

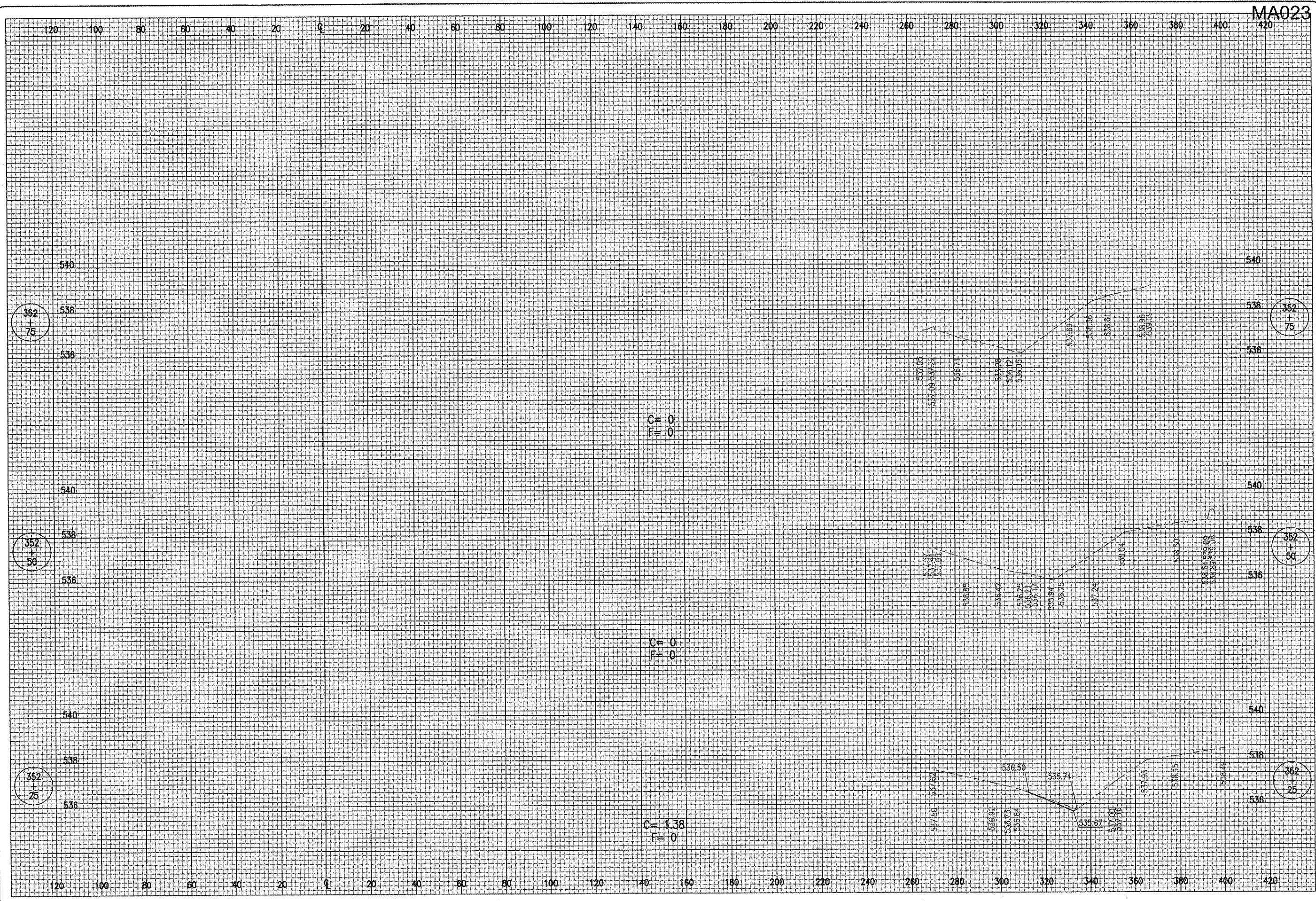
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 1305 S. State St. Ste. 62703-2886  
 Springfield, Illinois 62703-2886  
 Offices Nationwide

**PROPOSED T-HANGAR  
 ACCESS TAXIWAY**  
 PROPOSED CROSS-SECTIONS  
 FOR ACCESS TAXIWAY  
 STA. 351+50 TO STA. 352+00

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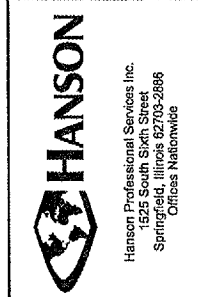


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**MARSHALL COUNTY AIRPORT  
 LACON, ILLINOIS**

IL PROJ.: C75-3542 A.I.P. PROJ.: 3-17-0059-06

ILL. Project No. 811-06THG0_0800 Filename: R-308XS.DWG Scale: H. 1" = 20' V. 1" = 2' Date: 12/08/05	LAYOUT J.E.O. 12/08/05 DRAWN J.E.O. 12/08/05 REVIEWED C.A.H. xx/xx/xx
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**PROPOSED T-HANGAR  
 ACCESS TAXIWAY**

**PROPOSED CROSS-SECTIONS  
 FOR ACCESS TAXIWAY**

STA. 352+00 TO STA. 352+75