

CONSTRUCTION PLANS

FOR

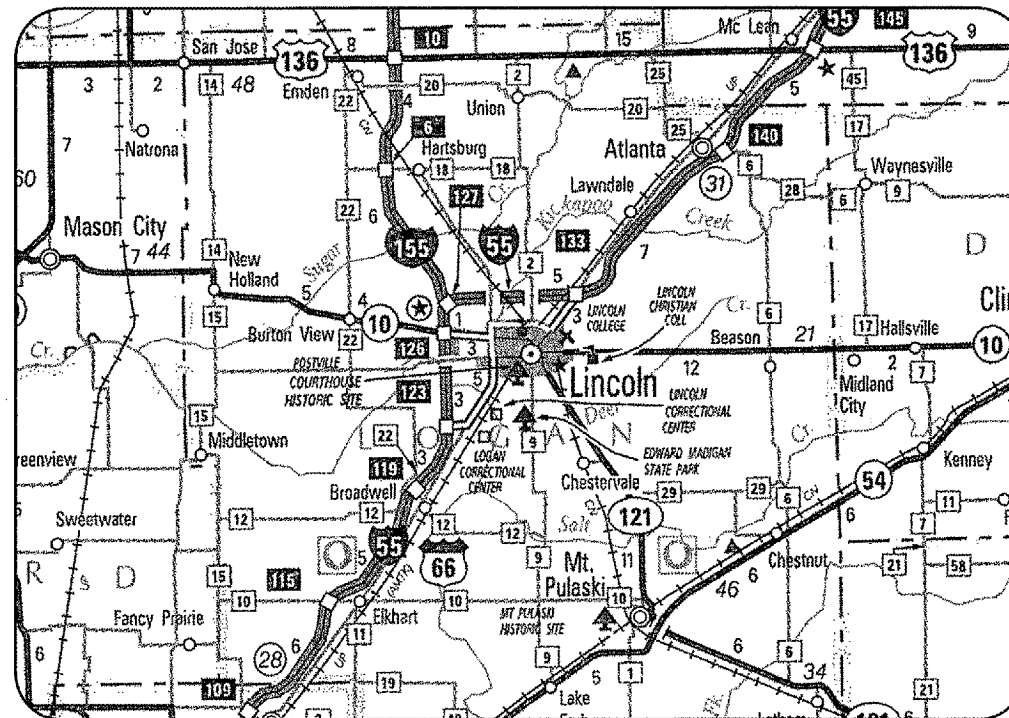
LOGAN COUNTY AIRPORT

LINCOLN, LOGAN COUNTY, ILLINOIS

REHABILITATE THE G.A. APRON

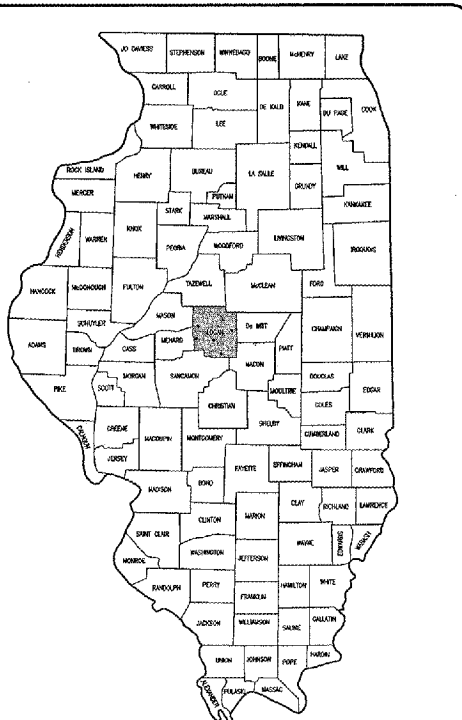
SCOPE OF WORK

THIS PROJECT CONSISTS OF REHABILITATING THE G.A. APRON. ASSOCIATED WORK INCLUDES MILLING, CRACK CLEANING AND SEALING, BITUMINOUS PAVING, MARKING, TIE-DOWN REMOVAL AND REPLACEMENT, EARTH SHOULDER ADJUSTMENT AND SODDING.

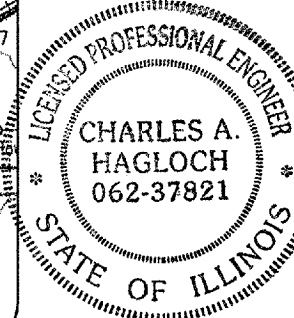


LOCATION

ILL. PROJ.: AAA-3430
A.I.P. PROJ.: 3-17-0062-B12
LATITUDE: 40° 09' 31"
LONGITUDE: 89° 20' 06"
ELEVATION: 597.0' M.S.L.
DATE: MARCH 18, 2005



LOCATION OF COUNTY



REVISED 5/29/05



Submitted by: *Charles A. Hagloch* ENG'R
Date Submitted: *05/27/05*
Lic. Exp. Date: *11/30/05*

LOGAN COUNTY BOARD

Approved: *Robert D. James* CHAIRMAN
Date: *5-2-05*
Approved: *Johnnie Martin* SECRETARY
Date: *5-2-05*

DATE	REVISION	BY

LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS
A.I.P. PROJ.: 3-17-0062-B12
ILL. PROJ.: AAA-3430

FILE PROJECT NO.	DATE
813-054PND_0800	01/04/05
R-001CVR.DWG	01/04/05
NOT TO SCALE	01/04/05
LAYOUT	BKB 01/04/05
DRAWN	BAK 01/04/05
REVIEWED	CAH 03/18/05



REHABILITATE THE
G.A. APRON
COVER SHEET

MAY 27, 2005 12:55 PM BAK
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DATE	REVISION	BY

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	LOCAL ONLY QUANTITIES	TOTAL QUANTITIES	AS BUILT QUANTITIES
AR108758	1/C #8 GROUND	L.F.		259	
AR110947	ADJUST ELECTRICAL MANHOLE	EA.		1	
AR150510	ENGINEER'S FIELD OFFICE	L.S.		1	
AR162724	ELECTRIC GATE 24'	EA.		1	
AR201661	CLEAN & SEAL BITUMINOUS CRACKS	L.F.		1,900	
AR401610	BITUMINOUS SURFACE COURSE	TON		1,265	
AR401650	BITUMINOUS PAVEMENT MILLING	S.Y.		710	
AR401910	REMOVE & REPLACE BIT. PAVEMENT	S.Y.		112	
AR402622	POROUS FRICTION COURSE, 0.10'	S.Y.		4,546	
AR510510	TIE DOWN	EACH		26	
AR510515	GROUND ROD	EACH		4	
AR510900	REMOVE TIE DOWN	EACH		29	
AR510905	REMOVE GROUND ROD	EACH		5	
AR603510	BITUMINOUS TACK COAT	GAL.		3,502	
AR620520	PAVEMENT MARKING-WATERBORNE	S.F.	921	2,465	
AR625510	TAR EMULSION SEAL COAT	S.Y.		100	
AR904510	SODDING	S.Y.		618	
AR905520	TOPSOILING (FROM OFF SITE)	C.Y.		40	

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QUANTITIES, INDEX TO SHEETS
3	PROPOSED SAFETY PLAN
4	PROPOSED PAVEMENT PREPARATION PLAN
5	PROPOSED CONSTRUCTION PLAN
6	PROPOSED STAKING PLAN
7	PROPOSED CONSTRUCTION DETAILS
8	PROPOSED MARKING PLAN
9	T-HANGAR ACCESS GATE ELECTRICAL PLAN
10	GATE & ELECTRIC OPERATOR DETAIL
11	ELECTRICAL DETAILS
12	ELECTRICAL ONE LINE T-HANGAR ACCESS
13	PROPOSED CROSS-SECTIONS FOR G.A. APRON STA. 0+00 TO STA. 0+25
14	PROPOSED CROSS-SECTIONS FOR G.A. APRON STA. 0+50 TO STA. 1+00
15	PROPOSED CROSS-SECTIONS FOR G.A. APRON STA. 1+05.49 TO STA. 1+25
16	PROPOSED CROSS-SECTIONS FOR G.A. APRON STA. 1+50 TO STA. 1+75
17	PROPOSED CROSS-SECTIONS FOR G.A. APRON STA. 2+00 TO STA. 2+28.97
18	PROPOSED CROSS-SECTIONS FOR G.A. APRON STA. 2+50 TO STA. 3+00
19	PROPOSED CROSS-SECTIONS FOR G.A. APRON STA. 3+25 TO STA. 3+26.57
20	PROPOSED CROSS-SECTIONS FOR G.A. APRON STA. 3+50 TO STA. 3+75
21	PROPOSED CROSS-SECTIONS FOR G.A. APRON STA. 4+00 TO STA. 4+25
22	PROPOSED CROSS-SECTIONS FOR G.A. APRON STA. 4+50 TO STA. 4+75
23	PROPOSED CROSS-SECTIONS FOR G.A. APRON STA. 5+00 TO STA. 5+25
24	PROPOSED CROSS-SECTIONS FOR G.A. APRON STA. 5+50 TO STA. 5+54.55
25	PROPOSED CROSS-SECTIONS FOR G.A. APRON STA. 5+75 TO STA. 6+00
26	PROPOSED CROSS-SECTIONS FOR G.A. APRON STA. 6+25 TO STA. 6+41.58

LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS

HEI Project No.	813-05APND_0800
Estimate	R-002FLP-DWG
Scale	NOT TO SCALE
Date	01/04/05
LAYOUT	BKB 01/04/05
DRAWN	BAK 01/04/05
REVIEWED	CAH 03/18/05



REHABILITATE THE
G.A. APRON
SUMMARY OF QUANTITIES
AND
INDEX TO SHEETS

SCOPE OF WORK

THIS PROJECT CONSISTS OF REHABILITATING THE G.A. APRON. ASSOCIATED WORK INCLUDES MILLING, CRACK CLEANING AND SEALING, BITUMINOUS PAVING, MARKING, TIE-DOWN REMOVAL AND REPLACEMENT, EARTH SHOULDER ADJUSTMENT AND SODDING.

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-TRUCK.

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 200' X 200'. 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, DISK, 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.

BARRICADES AND TRAFFIC CONES







IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE AND MAINTAIN BARRICADES AND TRAFFIC CONES AS DIRECTED BY THE RESIDENT ENGINEER. THE BARRICADES WILL BE EQUIPPED WITH RED FLASHING OR 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.

SCHEDULING OF OPERATIONS

THE CONTRACTOR WILL NOT LEAVE ANY OPEN HOLES IN THE PAVEMENT AREA OVER NIGHT.

DURING THE CONSTRUCTION DAY THE CONTRACTOR WILL SCHEDULE HIS OPERATIONS TO PROVIDE, AS MUCH AS POSSIBLE, AIRCRAFT ACCESS TO THE AIRCRAFT FUELING AREA. AT THE END OF THE CONSTRUCTION DAY SUFFICIENT AREA WILL BE BARRICADED FOR AIRCRAFT MOVEMENT ON THE APRON TO ALLOW ACCESS TO THE HANGAR AREA AND THE FUEL AREA. THE CONTRACTOR WILL PLACE THE BARRICADES AT THE DIRECTION OF THE RESIDENT ENGINEER.

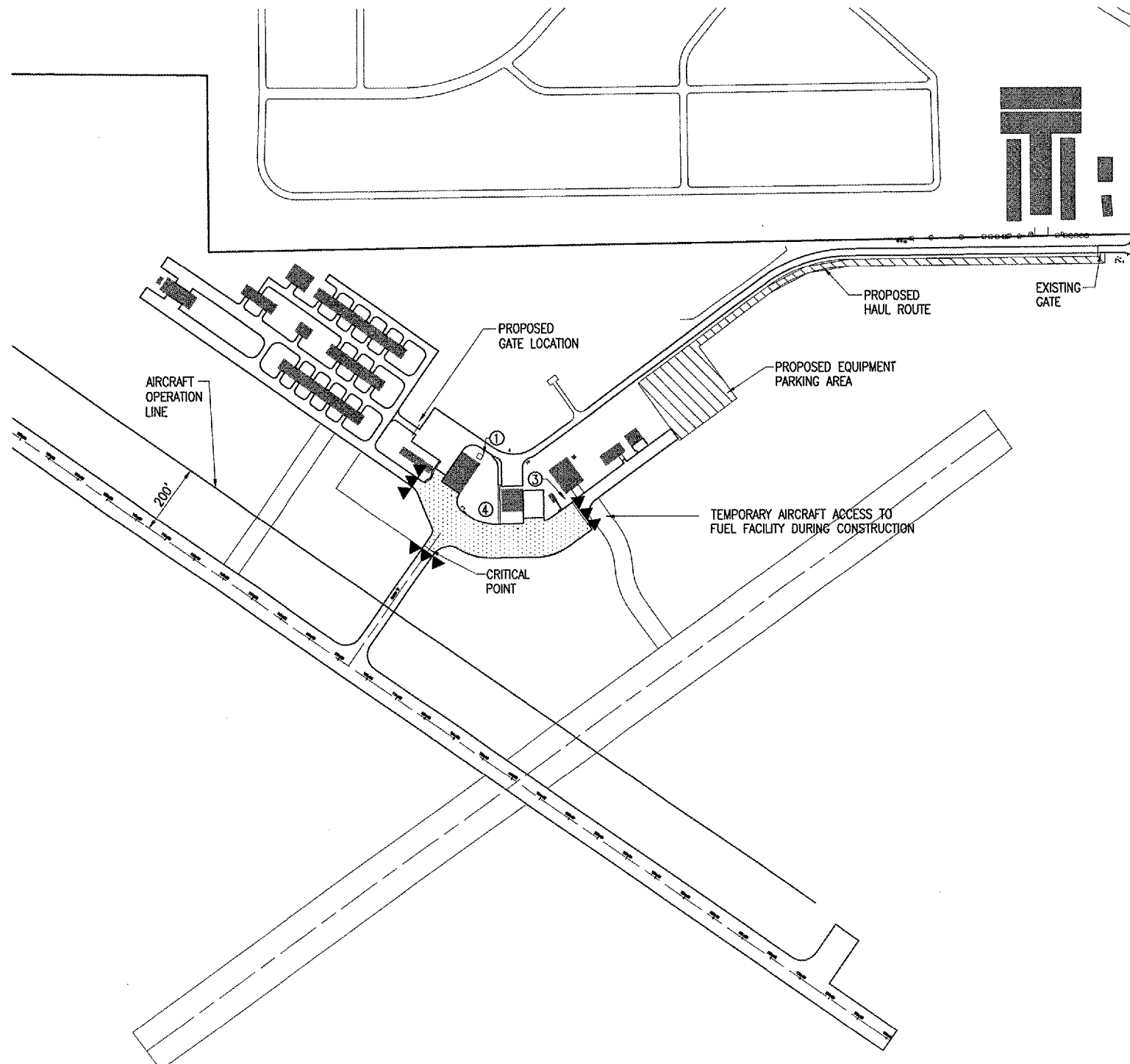
LEGEND

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

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	ELEV.
1	CB-1 CHISELED "D" NW COR. BEACON PAD	591.46
3	CB-3 CHISELED "D" SE COR. CONC. BASE LIGHT POLE	591.04
4	CB-4 CHISELED "D" SE COR. CONC. BASE LIGHT POLE	591.29



LO024

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' 33.14"
 LONGITUDE: 89° 20' 10.59"
 ELEVATION: 590.00 M.S.L.

PROPOSED SAFETY PLAN

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

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 16B 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.

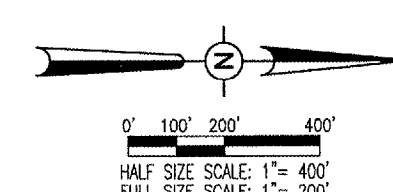
THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE PAID FOR UNDER ITEMS: AR150510 ENGINEER'S FIELD OFFICE _____ 1 L.S.

EROSION CONTROL

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

START OF CONSTRUCTION

THE ANNUAL LOGAN COUNTY BALLOON FEST IS SCHEDULED FOR AUGUST 26 THROUGH AUGUST 28, 2005. THE CONTRACTOR WILL NOT START ANY CONSTRUCTION ACTIVITIES UNTIL AFTER THE ANNUAL BALLOON FEST HAS BEEN COMPLETED.



DATE	REVISION	BY

LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS
 A.I.P. PROJ.: 3-17-0062-B12
 I.L. PROJ.: AAA-3430

HEL Project No. 813-05APND_0800	01/04/05
Revision R-003SFY.DWG	BKG
Scale 1" = 200'	BAK
Date 01/04/05	CAT
	03/18/05



REHABILITATE THE
 G.A. APRON
 PROPOSED
 SAFETY
 PLAN

PAVEMENT SAWING NOTES

THE MATCHING PAVEMENT EDGE OF THE EXISTING PAVEMENT WILL BE SAWED FULL DEPTH.
 THE PROPOSED SAWING WILL 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

SIDEWALK REMOVAL AND REPLACEMENT NOTES

THE FIRST SECTION (5' MAXIMUM) OF THE EXISTING CONCRETE SIDEWALK LEADING TO THE TERMINAL BUILDING WILL BE REMOVED AND REPLACED TO MATCH THE NEW APRON ELEVATION.
 THE REMOVED SIDEWALK MATERIAL WILL BE DISPOSED OF OFF THE AIRPORT PROPER.
 THE NEW SECTION OF SIDEWALK WILL BE PLACED IN ACCORDANCE WITH ITEM 610.
 THE REMOVAL AND REPLACEMENT OF THIS SECTION OF CONCRETE SIDEWALK WILL BE DONE AS AN INCIDENTAL ITEM TO ITEM AR401610.

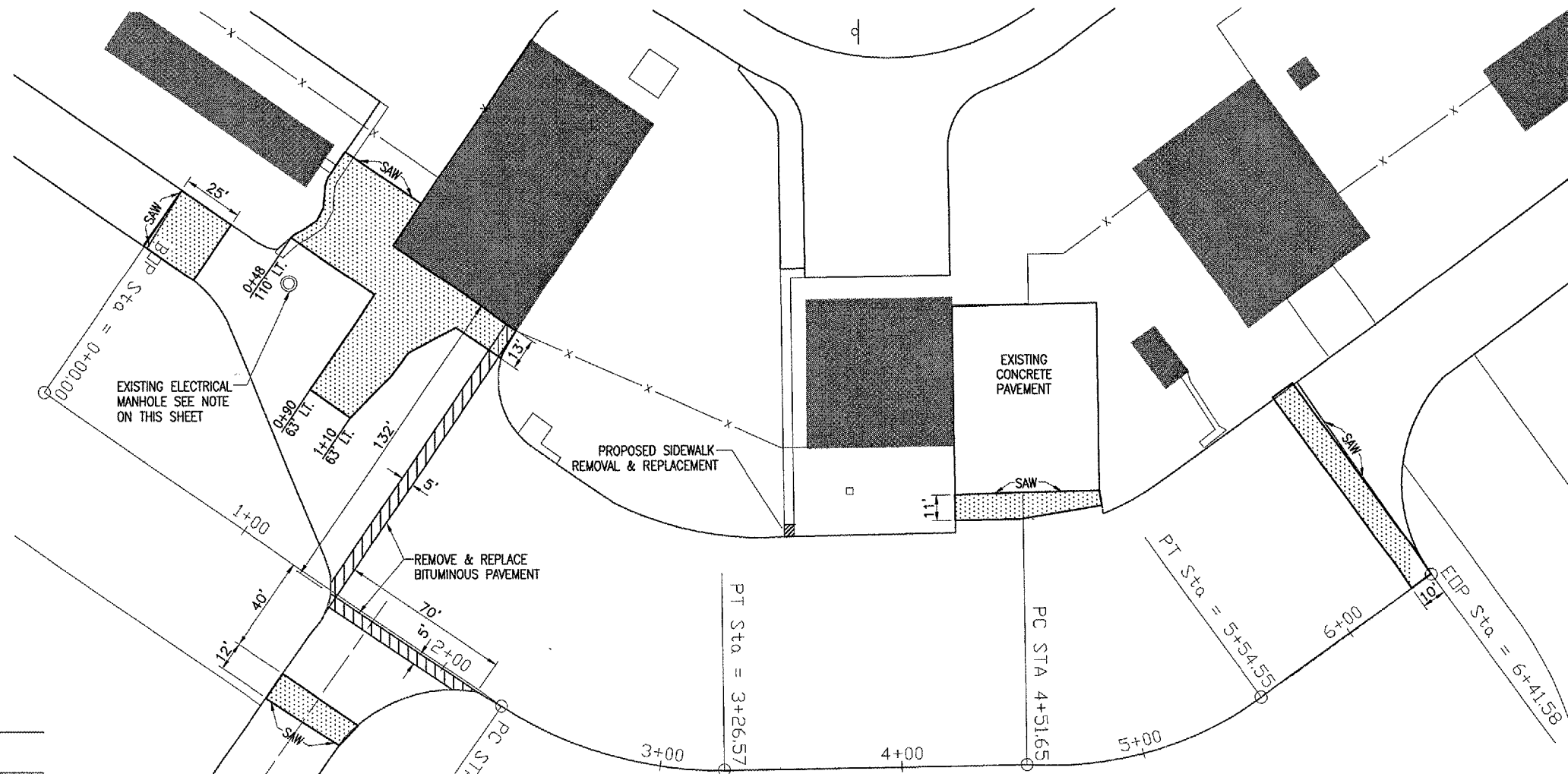
ELECTRICAL MANHOLE NOTES

THE EXISTING ELECTRICAL MANHOLE, AS SHOWN ON THIS SHEET SHALL BE ADJUSTED. THE CONTRACTOR SHALL REMOVE THE LID AND PLACE ADJUSTMENT RINGS AS REQUIRED TO ADJUST THE ELEVATION OF THE LID TO THE PROPOSED PAVEMENT ELEVATION.
 THE ADJUSTMENT OF THE ELECTRICAL MANHOLE WILL BE PAID FOR UNDER:
 AR110947 "ADJUST ELECTRICAL MANHOLE" _____ 1 EACH.

CLEANING AND SEALING BITUMINOUS CRACKS

THE PAVEMENT CONDITIONS AND CRACKS WERE IDENTIFIED DURING A SURVEY (JANUARY, 2005) OF THE EXISTING APRON AREA. 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.
 ALL CLEANING AND SEALING OF BITUMINOUS CRACKS SHALL BE PAID FOR UNDER ITEM:
 AR201661 "CLEAN & SEAL BITUMINOUS CRACKS" _____ 1,900 L.F.

LO024



EXISTING 4" BITUMINOUS	PROPOSED 6" BITUMINOUS SURFACE COURSE
EXISTING 7" P.C.C. PAVEMENT	PROPOSED 9" AGGREGATE BASE COURSE
EXISTING 4" AGGREGATE	

REMOVE AND REPLACE PAVEMENT DETAIL
 "NOT TO SCALE"

BUTT JOINT CONSTRUCTION NOTES

THE AREA DESIGNATED AS [diagonal hatching] ON THIS SHEET WILL BE CUT OR TRIMMED AS SHOWN ON THE CROSS-SECTIONS. THE CUTTING OR TRIMMING WILL BE DONE BY ROTO-MILLING. THE TOLERANCE OF THE MILLING WILL BE AS STATED IN THE STANDARD SPECIFICATIONS.
 THE EXISTING PAVEMENT WILL BE SAWED AS SHOWN ON THIS SHEET. SAWING WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE PROPOSED PAVEMENT MILLING AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
 ALL MILLED MATERIAL WILL BE DISPOSED OF OFF THE AIRPORT SITE.
 PRIOR TO APPLYING THE BITUMINOUS 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.
 THE BITUMINOUS PAVEMENT MILLING WILL BE PAID FOR UNDER ITEM:
 AR401655 "BUTT JOINT CONSTRUCTION" _____ 710 SQ. YDS.

REMOVE AND REPLACE PAVEMENT NOTES

THE AREA DESIGNATED AS [diagonal hatching] ON THIS SHEET WILL HAVE THE EXISTING BITUMINOUS AND CONCRETE PAVEMENT REMOVED (FULL DEPTH) AND REPLACED WITH BITUMINOUS MATERIAL TO THE EXISTING PAVEMENT ELEVATION. THE BITUMINOUS MATERIAL 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.
 THE BITUMINOUS PAVEMENT REMOVAL AND REPLACEMENT WILL BE PAID FOR UNDER ITEM:
 AR401910 "REMOVE & REPLACE BIT. PAVEMENT" _____ 112 SQ. YDS.

LEGEND

- [Solid line] EXISTING IMPROVEMENTS
- [Stippled area] EXISTING BUILDINGS
- [Dotted area] PROPOSED MILLING
- [Line with 'x'] EXISTING FENCE
- [Diagonal hatching] PROPOSED REMOVE & REPLACE BITUMINOUS PAVEMENT

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

MAY 27, 2005 1:19 PM BAK I:\AIRPORTS\LOGAN\813-05APN\AIRPORT SHEETS\R-111PRP.DWG - Layout1 Q. A. REVIEW - WJM 3/23/05

DATE	REVISION	BY	LOGAN COUNTY AIRPORT LINCOLN, ILLINOIS
ILL. PROJ.: 44A-3430 A.I.P. PROJ.: 3-17-0062-012			HANSON Hanson Professional Services Inc. 1625 South Sixth Street Springfield, Illinois 62703-2806 Chicago Nationwide
ILL. Project No. 813-05APND 0800 Name: R-111PRP.DWG Scale: 1" = 30' Date: 01/04/05			LAYOUT: BKB 01/04/05 DRAWN: BAK 01/04/05 REVIEWED: CAH 03/18/05
REHABILITATE THE G.A. APRON			PROPOSED PAVEMENT PREPARATION PLAN
4			4 of 28 sheets

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. THE PROPOSED BITUMINOUS PAVEMENT SHALL HAVE A TACK COAT OF BITUMINOUS MATERIAL APPLIED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.

THE PROPOSED BITUMINOUS TACK COAT WILL BE PAID FOR UNDER ITEM:
AR603510 BITUMINOUS TACK COAT _____ 3,502 GAL.

TAR EMULSION SEAL COAT

THIS ITEM OF WORK SHALL CONSIST OF THE APPLICATION OF TWO COATS OF TAR EMULSION SEAL COAT ON A PREPARED ASPHALT SURFACE. THE AREA TO RECEIVE THE SEAL COAT IS AS DETAILED ON THIS SHEET. THE CONTRACTOR WILL BE REQUIRED TO REMOVE ANY MATERIAL THAT IS SPLASHED OR SPRAYED ON ANY/OR ALL BUILDINGS OR CONCRETE.

THE SEAL COAT MIXTURE AND APPLICATION SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

THIS ITEM WILL BE PAID FOR UNDER ITEM:
AR625510 "TAR EMULSION SEAL COAT" _____ 100 S.Y.

POROUS FRICTION COURSE NOTES

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.

AR401-BITUMINOUS SURFACE COURSE NOTES

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 TWO LIFTS OF BITUMINOUS SURFACE COURSE (1-1/2 INCH DEPTH) ON THE EXISTING BITUMINOUS SURFACE COURSE FOR THE PROPOSED APRON RECONSTRUCTION.

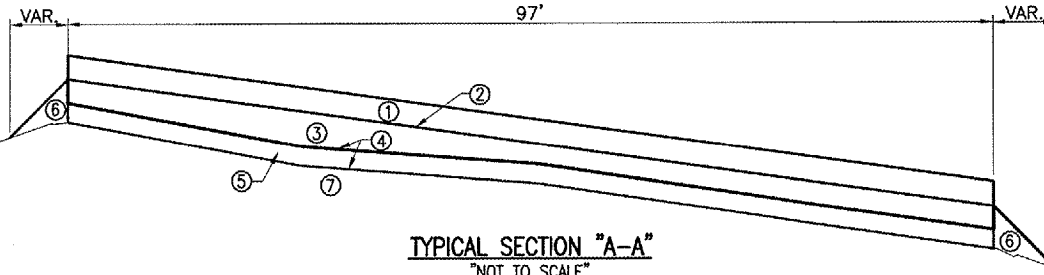
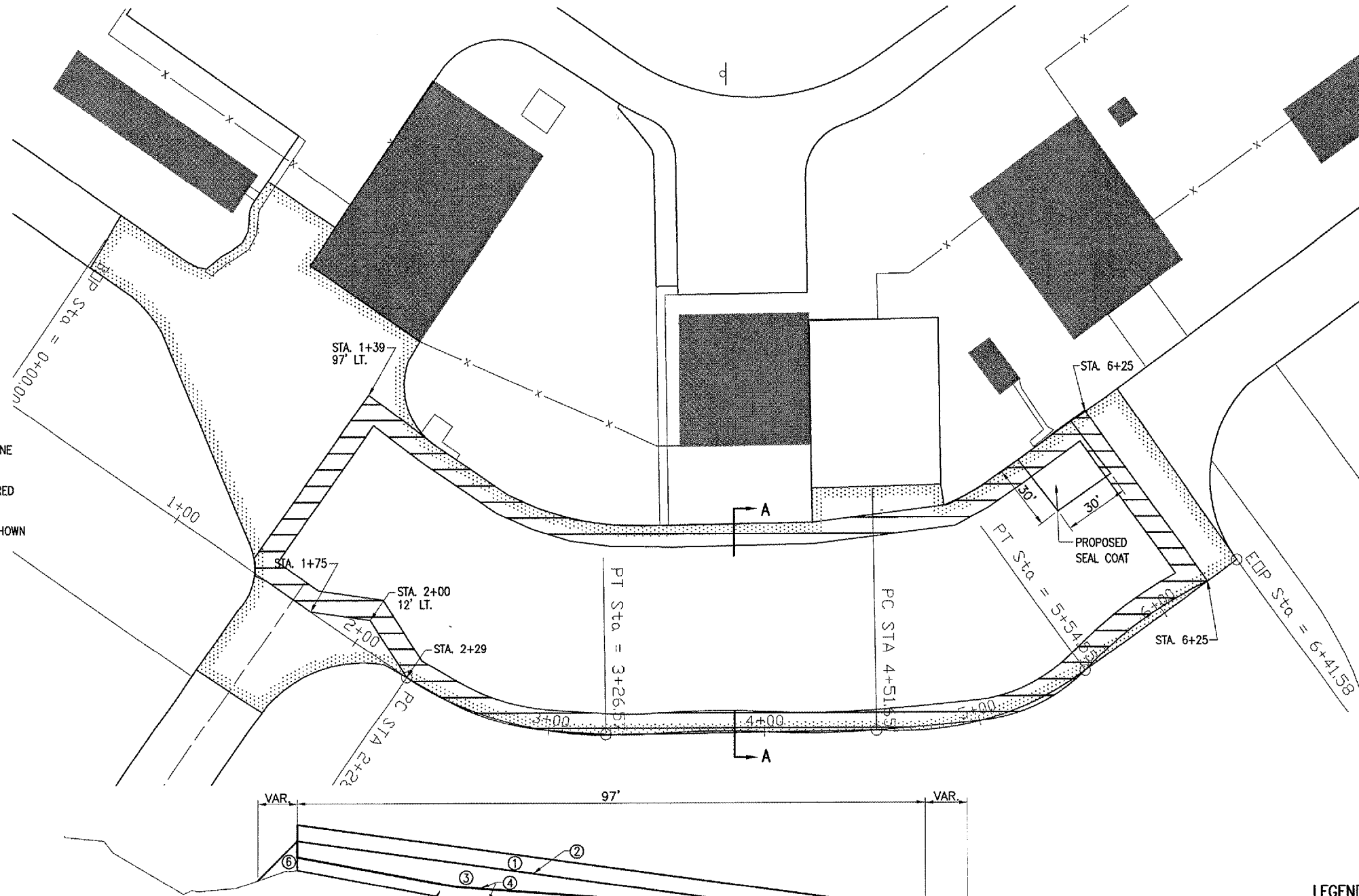
THE PROPOSED BITUMINOUS SURFACE COURSE WILL BE DESIGNED TO A MARSHALL DESIGN OF LESS THAN 60,000 POUNDS.

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 SHAPING EDGES. ADD THE FOLLOWING TO THIS PARAGRAPH:

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

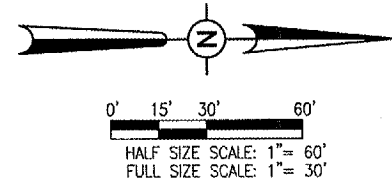


TYPICAL SECTION "A-A"
"NOT TO SCALE"

LEGEND FOR TYPICAL SECTION "A-A"

- ① 401 - BITUMINOUS SURFACE COURSE (1-1/2" DEPTH)
- ② 603 - BITUMINOUS TACK COAT (0.15 GAL./S.Y.)
- ③ 401 - BITUMINOUS LEVELING COURSE (VAR. DEPTH)
- ④ 603 - BITUMINOUS TACK COAT (0.25 GAL./S.Y.)
- ⑤ 402 - BITUMINOUS POROUS FRICTION COURSE (0.10')
- ⑥ TOPSOLLING (FROM OFF SITE)
- ⑦ EXISTING PAVEMENT

- LEGEND**
- [Hatched Box] EXISTING IMPROVEMENTS
 - [Solid Grey Box] EXISTING BUILDINGS
 - [Dotted Box] PROPOSED IMPROVEMENTS
 - [Line with X] EXISTING FENCE
 - [Hatched Box] PROPOSED PFC AREA



PAVING QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR401610	BITUMINOUS SURFACE COURSE	TON	1,146
AR402622	POROUS FRICTION COURSE, 0.10'	S.Y.	4,546
AR603510	BITUMINOUS TACK COAT	GAL.	3,502
AR625510	TAR EMULSION SEAL COAT	S.Y.	100

MAY 27, 2005 1:20 PM BAK I:\AIRPORTS\LOGAN\813-054P\AIRPORT\SHETS\R-121CON.DWG - Layout1 O.A. REVIEW - WJH - 3/23/05

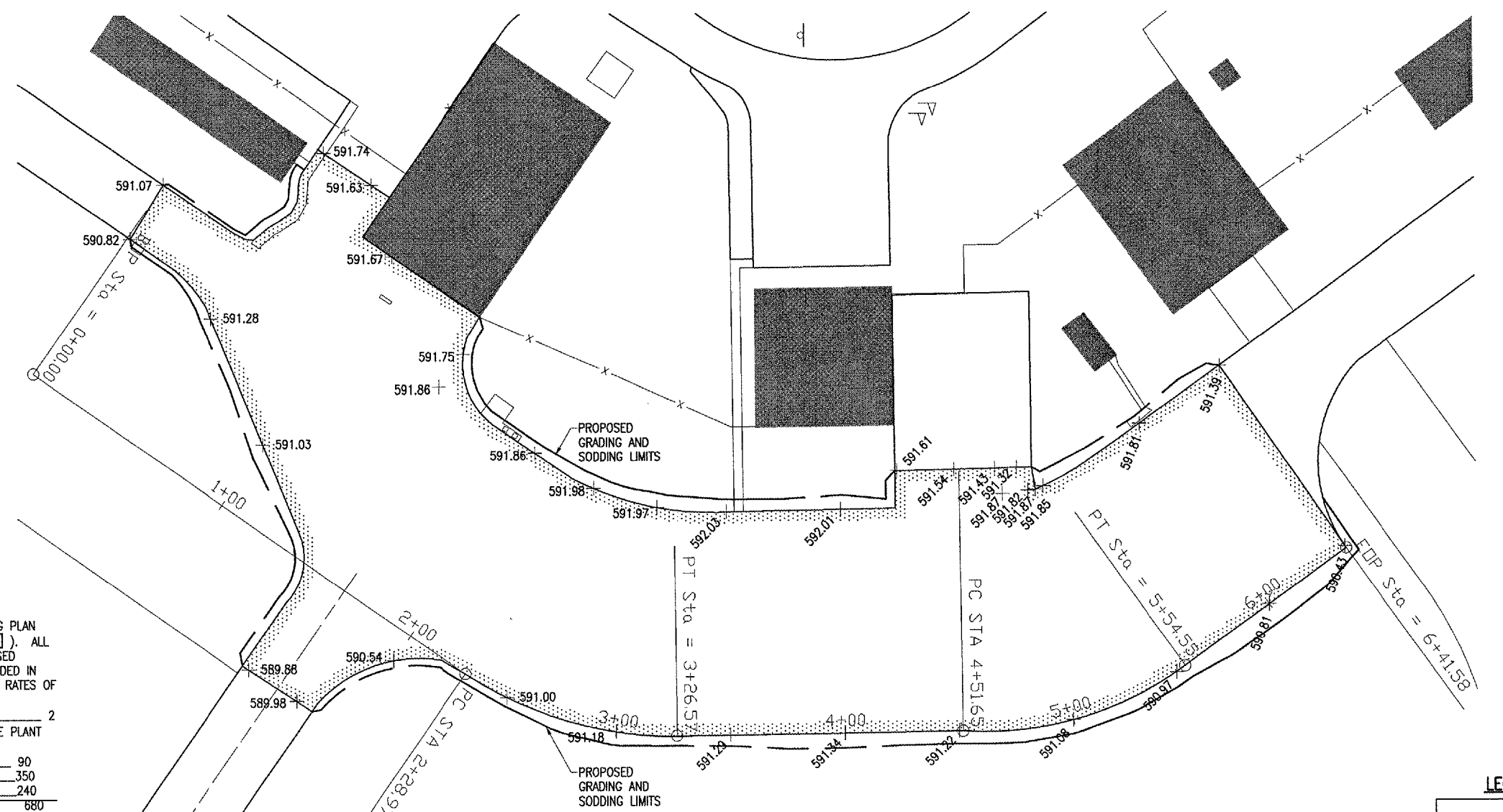
DATE	REVISION				
<p>LOGAN COUNTY AIRPORT LINCOLN, ILLINOIS</p>					
<p>IL PROJ.: AAA-3430 A.I.P. PROJ.: 3-17-0062-B12</p>					
<p>SEL. Project No. 813-054PND_0800 Elevation R-121CON.DWG Scale 1" = 30' Date 01/04/05</p>		<p>LAYOUT BKB 01/04/05 DRAWN BAK 01/04/05 REVIEWED CAH 03/18/05</p>	<p>Hanson Professional Services Inc. 1626 South Sixth Street Springfield, Illinois 62703-2888 Offices Nationwide</p>		
<p>REHABILITATE THE G.A. APRON</p>		<p>PROPOSED CONSTRUCTION PLAN</p>			
<p>5</p> <p>5 of 28 sheets</p>					

EARTH FILLETS

EARTH FILLETS WILL BE CONSTRUCTED ADJACENT TO ALL PAVEMENT OVERLAY AREAS. THE EARTH FILLETS ARE SHOWN ON THE CROSS-SECTIONS AND THE STAKING PLAN SHEETS AS THE PROPOSED GRADING, SODDING AND MULCHING LIMITS. A 1 INCH DROP SHALL BE MAINTAINED FROM THE PAVEMENT EDGE TO THE SODDED SHOULDER. THE EARTH FILLETS WILL NOT REQUIRE COMPACTING OR GRADING, OTHER THAN LIGHT ROLLING AND SHAPING. THE MATERIAL FOR THE PROPOSED EARTH FILLETS WILL BE OBTAINED FROM OFF-SITE.

THE MATERIAL FOR THE PROPOSED EARTH FILLETS WILL BE PAID FOR UNDER: ITEM AR905520 "TOPSOILING" (FROM OFF SITE) 40 C.Y.

GRADING AND SODDING QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR904510	SODDING	S.Y.	618
AR905520	TOPSOILING (FROM OFF SITE)	C.Y.	40



SODDING DATA

THE GRADING LIMITS ARE SHOWN ON THE STAKING PLAN SHEETS BY A HEAVY DASHED LINE (---). ALL AREAS WITHIN THESE LIMITS, EXCEPT THE PROPOSED PAVEMENT, SHALL BE LIMED, FERTILIZED AND SODDED IN ACCORDANCE WITH THE FOLLOWING FORMULA AND RATES OF APPLICATION.

LIME (TONS PER ACRE)	2
FERTILIZER (MINIMUM POUNDS OF AVAILABLE PLANT PER ACRE)	
FOOD	
N	90
P ₂₀	350
K ₂₀	240
TOTAL	680

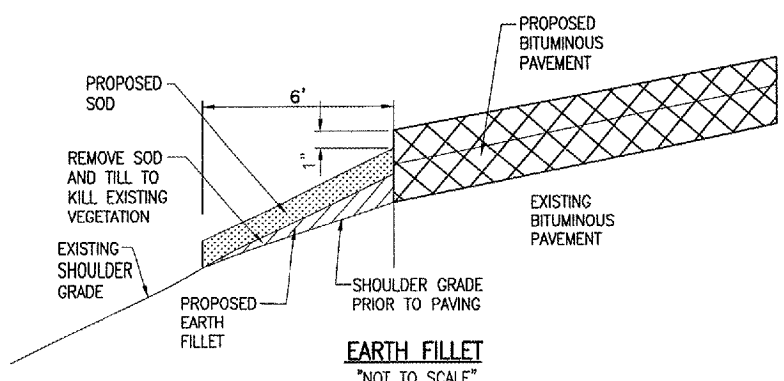
THIS WORK WILL BE PAID FOR UNDER THE FOLLOWING:
ITEM NO. AR904510 "SODDING".

ALL AREAS OUTSIDE THE GRADING AND SODDING LIMITS DISTURBED BY THE CONTRACTOR WILL BE LIMED, FERTILIZED AND SODDED IN ACCORDANCE WITH THE REQUIREMENTS OF ITEM AR904510, AT NO ADDITIONAL COST TO THE CONTRACT.

THE SOIL SHALL BE THOROUGHLY LOOSENEED TO A DEPTH NOT LESS THAN 5 INCHES.

THE SOD BED SHALL BE SMOOTH AND TO GRADE PRIOR TO THE SODDING OPERATIONS. THE CONTRACTOR WILL USE DRAG BARS, HARROWS OR OTHER EQUIPMENT NECESSARY TO OBTAIN A SMOOTH GRADE TO THE SATISFACTION OF THE ENGINEER.

ALL ROCK, ASPHALT OR CONCRETE DEBRIS LEFT FROM THE PAVING OPERATION WILL BE DISPOSED OF OFF THE AIRPORT SITE.



LEGEND

- [Solid Line] EXISTING IMPROVEMENTS
- [Shaded Area] EXISTING BUILDINGS
- [Dotted Area] PROPOSED IMPROVEMENTS
- [Line with 'x'] EXISTING FENCE
- [Heavy Dashed Line] PROPOSED GRADING AND SODDING LIMITS
- [Solid Line with Dots] EXISTING GRADE
- [Dashed Line with Dots] PROPOSED GRADE

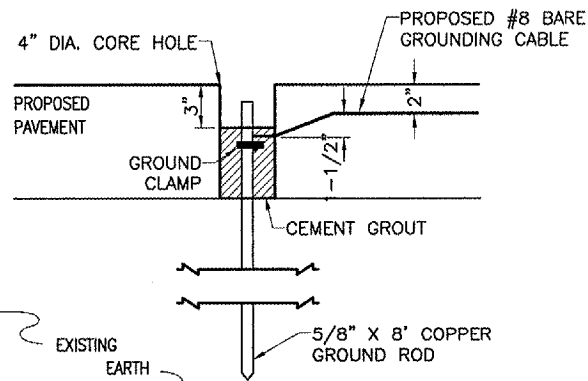
Scale: 0' 15' 30' 60'

HALF SIZE SCALE: 1" = 60'

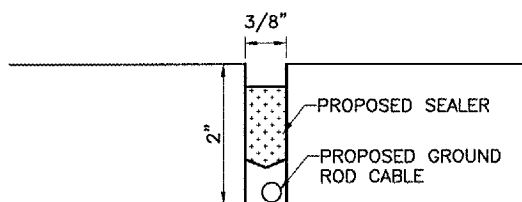
FULL SIZE SCALE: 1" = 30'

MAY 27, 2005 1:20 PM BAK \\AIRPORTS\LOGAN\813-05AP\H\AIRPORT\SHEETS\R-191STK.DWG -- Layout1 Q.A. REVIEW WJM -- 3/22/05

BY	
REVISION	
DATE	
LOGAN COUNTY AIRPORT LINCOLN, ILLINOIS	
IL. PROJ.: AAA-3430 A.I.P. PROJ.: 3-17-0062-B12	
HEL. Project No. 813-05APND_0800	
Filename R-191STK.DWG	
Scale 1" = 30'	
Date 01/04/05	
LAYOUT	BKB 01/04/05
DRAWN	BAK 01/04/05
REVIEWED	CAH 03/18/05
<p>Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62705-2886 Offices Nationwide</p>	
REHABILITATE THE G.A. APRON	
PROPOSED STAKING PLAN	
6	
6 of 26 sheets	



GROUND ROD DETAIL
"NOT TO SCALE"



GROUND ROD CABLE DETAIL
"NOT TO SCALE"

GROUND ROD NOTES

THE GROUND RODS WILL BE INSTALLED AT THE LOCATIONS SHOWN ON THIS SHEET AND IN ACCORDANCE WITH THE DETAIL SHOWN ON SHEET NO. 7.

THE GROUND ROD SHALL BE A #8 X 8 FT. COPPER OR COPPER-CLAD GROUND ROD.

THE CONTRACTOR SHALL INSTALL A #8 BARE COPPER WIRE IN THE PROPOSED SAWS CUT AS INDICATED ON THIS SHEET. THE SAW CUT WILL BE CUT 2" DEEP TO FACILITATE THE INSTALLATION OF THE PROPOSED GROUNDING CABLE. THE SAWING AND SEALING WILL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE PROPOSED GROUNDING CABLE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THE CONTRACTOR WILL SEAL THE SAW CUT WITH COLD POUR MATERIAL AFTER THE GROUNDING CABLE IS INSTALLED.

THE PROPOSED GROUNDING CABLE WILL BE CONNECTED TO THE PROPOSED GROUND ROD AS SHOWN ON SHEET NO. 7.

THE PROPOSED GROUND RODS AND GROUNDING CABLE WILL BE PAID FOR UNDER THE FOLLOWING ITEMS:

- AR510515 "GROUND ROD" _____ 4 EA.
- AR108758 "1/C #8 GROUND" _____ 259 L.F.

620-PAVEMENT MARKING-WATERBORNE NOTES

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

THIS ITEM SHALL CONSIST OF TAXIWAY CENTERLINE, TIE DOWNS AND HELIPAD MARKING IN ACCORDANCE WITH THESE SPECIFICATIONS AND AT THE LOCATIONS SHOWN ON THE CONSTRUCTION PLANS. THE PROPOSED PAVEMENT MARKING WILL BE APPLIED IN TWO APPLICATIONS.

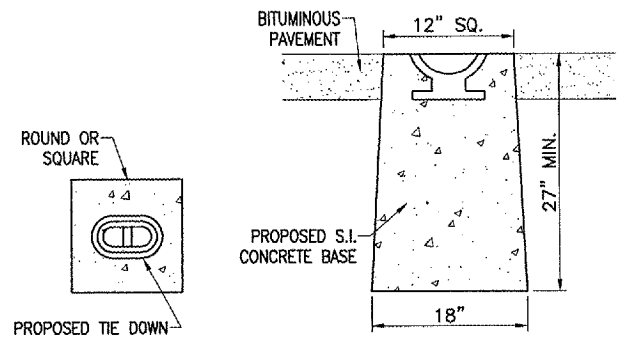
ANY MATERIAL DELIVERED THAT FAILS TO MEET THE SPECIFICATIONS SHALL BE DISPOSED OF BY THE VENDOR AND IMMEDIATELY REPLACED WITH ACCEPTABLE MATERIAL ENTIRELY AT THE VENDOR'S EXPENSE, INCLUDING HANDLING AND TRANSPORTATION CHARGES.

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

GLASS BEADS SHALL BE REQUIRED ONLY ON THE SECOND APPLICATION.

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

THE PROPOSED MARKING WILL BE PAID FOR UNDER ITEM: AR620520 PAVEMENT MARKING-WATERBORNE - 2,211 S.F.



TIE DOWN DETAIL "B"
"NOT TO SCALE"

TIE DOWN NOTES

NEW TIE DOWNS WILL BE INSTALLED IN ACCORDANCE WITH DETAIL "B" AT THE LOCATIONS SHOWN ON SHEET NO. 8.

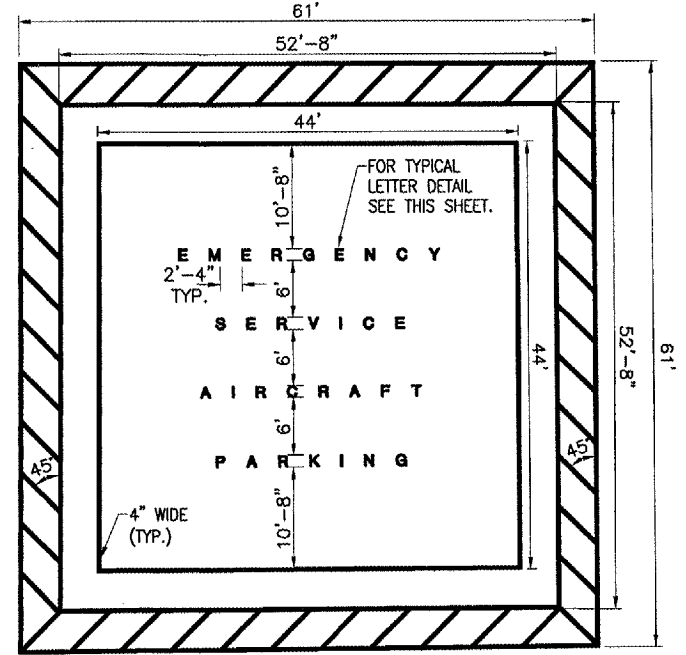
THE PERIMETER OF EACH PROPOSED TIE DOWN SHALL BE SAWS OR CORE DRILLED.

TIE DOWN CASTINGS SHALL BE NEENAH R-3490A OR EQUAL.

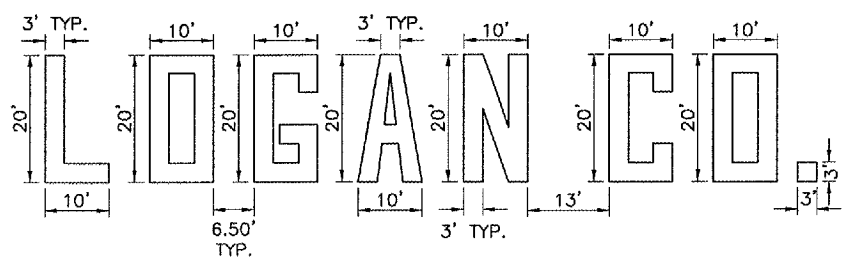
CONCRETE SHALL MEET THE REQUIREMENTS OF 610 - STRUCTURAL CONCRETE.

THE PROPOSED TIE DOWN MARKING WILL BE IN ACCORDANCE WITH DETAIL "A" ON THIS SHEET AND THE SPECIFICATIONS.

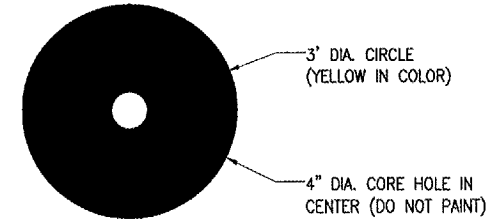
THE TIE DOWNS WILL BE PAID FOR UNDER ITEM: AR510510 "TIE DOWN" _____ 26 EA.



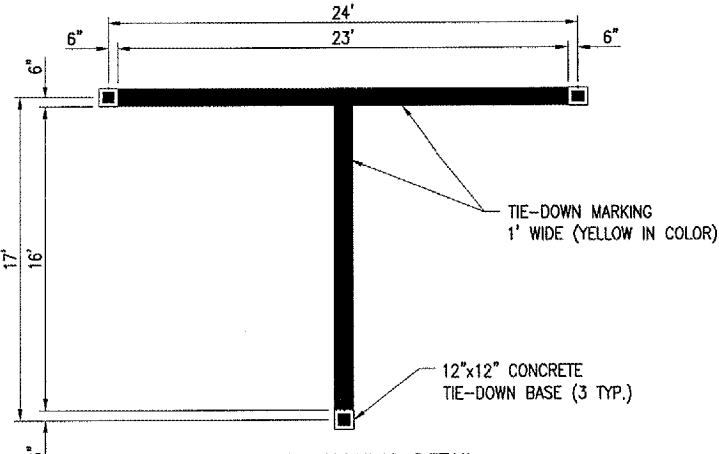
EMERGENCY SERVICE AIRCRAFT PARKING DETAIL
SCALE 1" = 10'



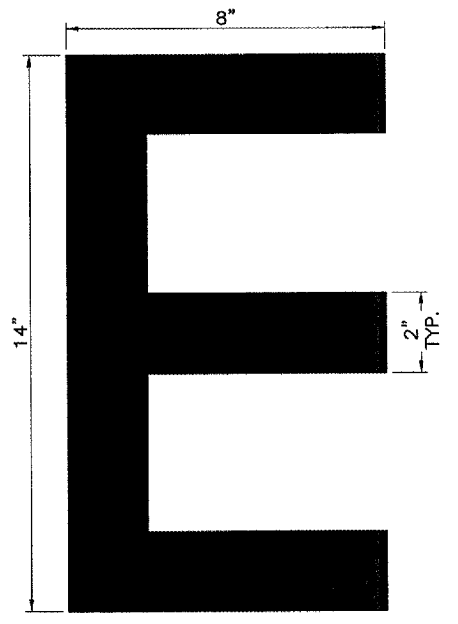
LOGAN COUNTY MARKING DETAIL



GROUND ROD MARKING DETAIL
"NOT TO SCALE"



TIE DOWN MARKING DETAIL
"NOT TO SCALE"



TYPICAL LETTER DETAIL
"NOT TO SCALE"

MAY 27, 2005 1:21 PM BAK I:\AIRPORTS\LOGAN\813-05APND\AIRPORT SHEETS\R-521CON.DWG - Layout1 C.A. REVIEW INM - 3/23/05

BY		REVISION		DATE	
LOGAN COUNTY AIRPORT LINCOLN, ILLINOIS					
A.I.P. PROJ.: 3-17-0062-812 IL PROJ.: AAA-3430					
I.D. Project No. 813-05APND_0800 Name R-521CON.DWG Size NOT TO SCALE Date 01/04/05	LAYOUT BKB 01/04/05 DRAWN BAK 01/04/05 REVIEWED CAH 03/18/05				
Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62705-2866 Offices Nationwide					
REHABILITATE THE G.A. APRON PROPOSED CONSTRUCTION DETAILS					
7					
7 of 26 sheets					

STATE-LOCAL MARKING QUANTITIES			
DESCRIPTION	UNIT AREA	NO. REQUIRED	TOTAL AREA
TAXIWAY CENTERLINE	686	1	686
TIE DOWN	40	8,925	357
GROUND ROD	7	4	28
HELIPAD	473	1	473
TOTAL MARKING			1,544

LOCAL ONLY MARKING QUANTITIES			
DESCRIPTION	UNIT AREA	NO. REQUIRED	TOTAL AREA
LOGAN CO.	921	-	921
TOTAL MARKING			921

TIE DOWN REMOVAL NOTES

THE EXISTING TIE DOWNS LOCATED IN THE AREAS TO BE OVERLAID WILL BE REMOVED AND DISPOSED OF OFF THE AIRPORT SITE. THE PROPOSED TIE DOWNS WILL BE INSTALLED IN THE EXACT SAME LOCATION EXCEPT FOR THE THREE TIE DOWNS LOCATED IN THE EMERGENCY SERVICE AREA. THESE THREE WILL NOT BE REPLACED.

THE CONTRACTOR WILL USE A CORE DRILL TO 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.

SINCE THE PROPOSED TIE DOWNS WILL GO BACK IN THE SAME LOCATION AS THE EXISTING TIE DOWNS, THE CONTRACTOR WILL FILL THE HOLE WITH SAND. THIS WILL MAKE LOCATING THESE HOLE EASIER.

THE THREE TIE DOWNS THAT WILL NOT BE REPLACED WILL HAVE THEIR HOLES FILLED WITH CRUSHED AGGREGATE BASE COURSE UP TO 8" FROM THE EXISTING SURFACE. THE REMAINING 8" WILL BE FILLED WITH BITUMINOUS SURFACE COURSE.

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

ALL MATERIAL USED IN BACKFILLING THE HOLES WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE TIE DOWN REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE REMOVAL AND DISPOSAL OF THE TIE DOWNS AND FILLING OF THE HOLES WITH SAND WILL BE PAID FOR UNDER ITEM:
AR510900 "REMOVE TIE DOWN"... 29 EA.

GROUND ROD REMOVAL NOTES

THE EXISTING GROUND RODS LOCATED IN THE AREAS TO BE OVERLAID WILL BE REMOVED AND DISPOSED OF OFF THE AIRPORT SITE. THE PROPOSED GROUND RODS WILL BE INSTALLED IN THE EXACT SAME LOCATION. ONLY THE GROUND ROD LOCATED IN THE EMERGENCY SERVICES AREA WILL NOT BE REPLACED.

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.

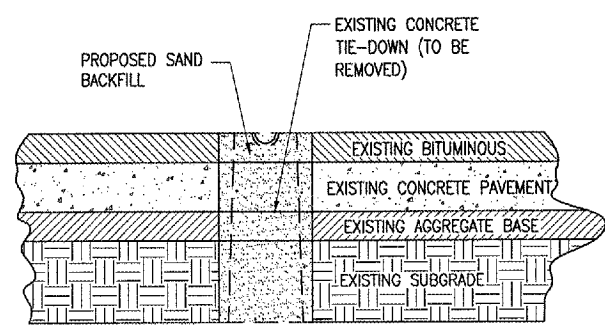
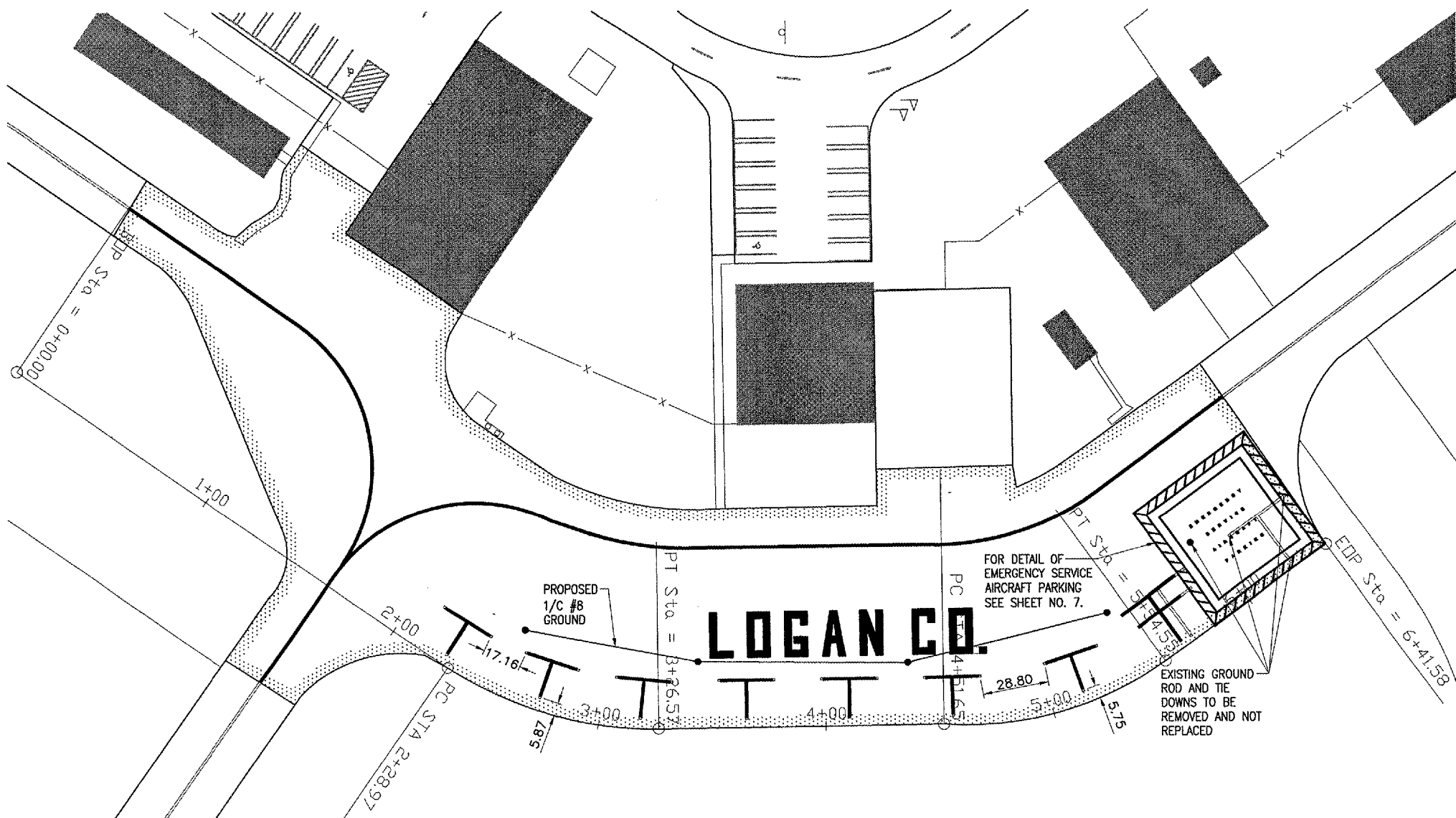
IF A 4" CORE DRILL IS USED IN REMOVING THE GROUND RODS, THEN THE HOLES WILL BE BACKFILLED WITH SAND. IF A LARGER DIAMETER CORE DRILL IS USED, THEN THE HOLES WILL BE FILLED WITH SAND TO A DEPTH OF 8" FROM THE EXISTING FINISHED GRADE AND THE REMAINING DEPTH FILLED WITH BITUMINOUS SURFACE COURSE.

THE GROUND ROD IN THE EMERGENCY SERVICES AREA WILL BE FILLED WITH CRUSHED AGGREGATE BASE COURSE AND BITUMINOUS SURFACE COURSE SIMILAR TO THE FILLING OF THE TIE DOWNS LOCATED IN THIS AREA.

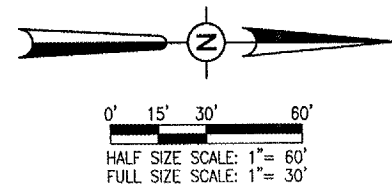
ALL REMOVED MATERIAL WILL BE DISPOSED OF OFF THE AIRPORT SITE.

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 WILL BE PAID FOR UNDER ITEM:
AR510905 "REMOVE GROUND ROD"... 5 EA.

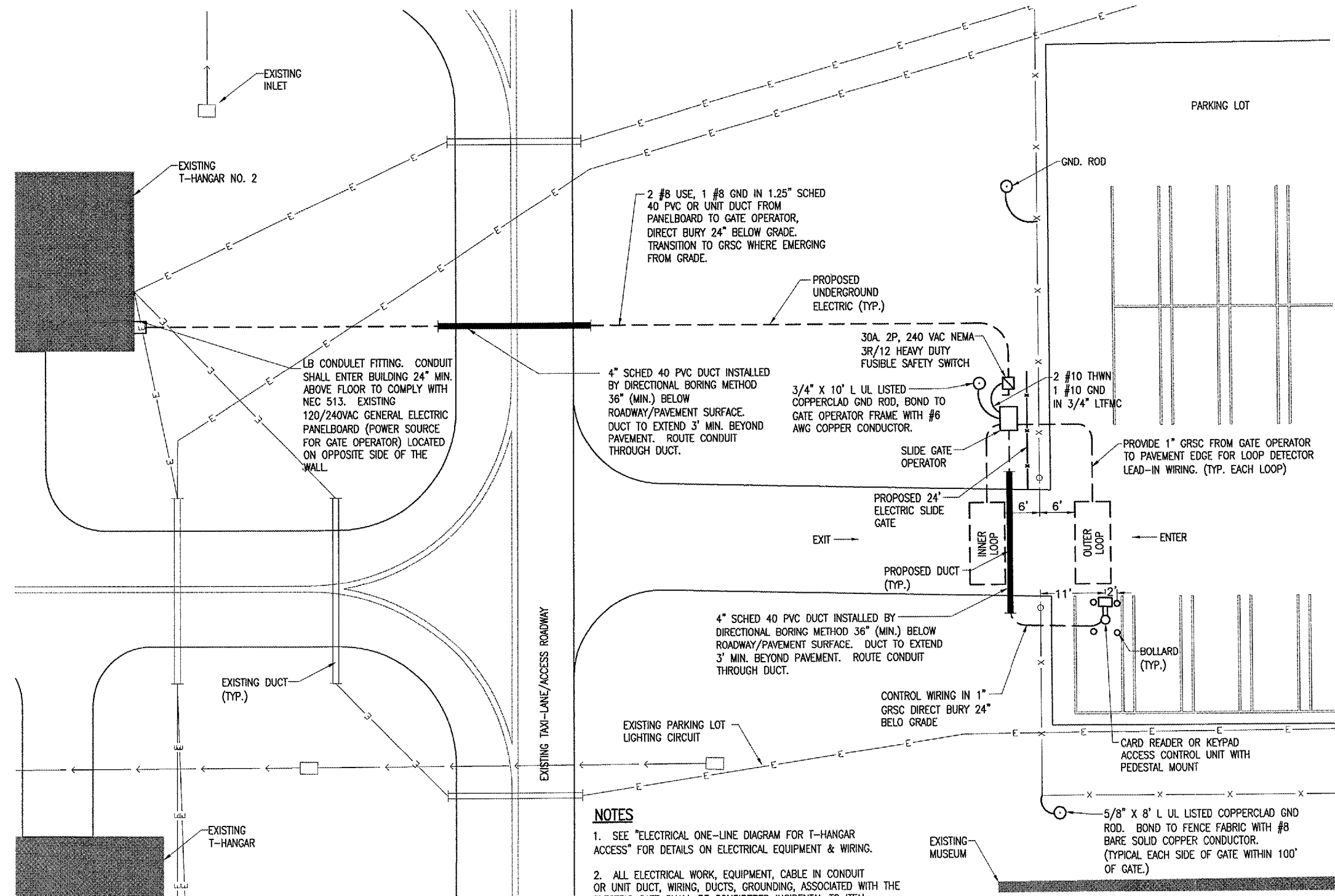


- LEGEND**
- EXISTING IMPROVEMENTS
 - EXISTING BUILDINGS
 - PROPOSED IMPROVEMENTS
 - EXISTING FENCE
 - EXISTING MARKING
 - EXISTING TIE DOWN
 - EXISTING GROUND ROD
 - PROPOSED MARKING



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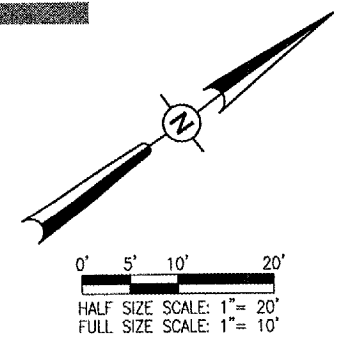
DATE	REVISION	BY			
<p>LOGAN COUNTY AIRPORT LINCOLN, ILLINOIS</p>					
<p>IL. PROJ.: AAA-3430 A.I.P. PROJ.: 3-17-0062-812</p>					
<p>HEL. Project No.: 813-05APND_0800 Drawn: R-151MRK.DWG Scale: 1" = 30' Date: 01/04/05</p>		<p>LAYOUT: BKB 01/04/05 DRAWN: BAK 01/04/05 REVIEWED: CAH 03/18/05</p>		<p>Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62769-2886 Chicago Nationwide</p>	
<p>REHABILITATE THE G.A. APRON</p>			<p>PROPOSED MARKING PLAN</p>		
<p>8</p> <p>8 of 26 sheets</p>					



- NOTES**
- SEE "ELECTRICAL ONE-LINE DIAGRAM FOR T-HANGAR ACCESS" FOR DETAILS ON ELECTRICAL EQUIPMENT & WIRING.
 - ALL ELECTRICAL WORK, EQUIPMENT, CABLE IN CONDUIT OR UNIT DUCT, WIRING, DUCTS, GROUNDING, ASSOCIATED WITH THE ELECTRIC GATE SHALL BE CONSIDERED INCIDENTAL TO ITEM AR162724 ELECTRIC GATE - 24'.
 - LTFMC DENOTES UL LISTED LIQUID TIGHT FLEXIBLE METAL CONDUIT, SUNLIGHT RESISTANT & SUITABLE FOR USE AS EQUIPMENT GROUNDING CONDUCTOR.
 - THE CONTRACTOR SHALL CONTACT THE RESPECTIVE AIRPORT PERSONNEL FOR ASSISTANCE IN LOCATING EXISTING UNDERGROUND CABLES AND/OR UTILITIES.
 - ALL ITEMS OF WORK AND MATERIALS REQUIRED TO ACHIEVE THE INSTALLATION OF THE PROPOSED ELECTRIC SLIDE GATE, AS SHOWN ON SHEETS 9 THRU 12, WILL BE PAID FOR UNDER ITEM AR162724.

LEGEND

- EXISTING IMPROVEMENTS
- EXISTING BUILDINGS
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING UNDERGROUND ELECTRIC

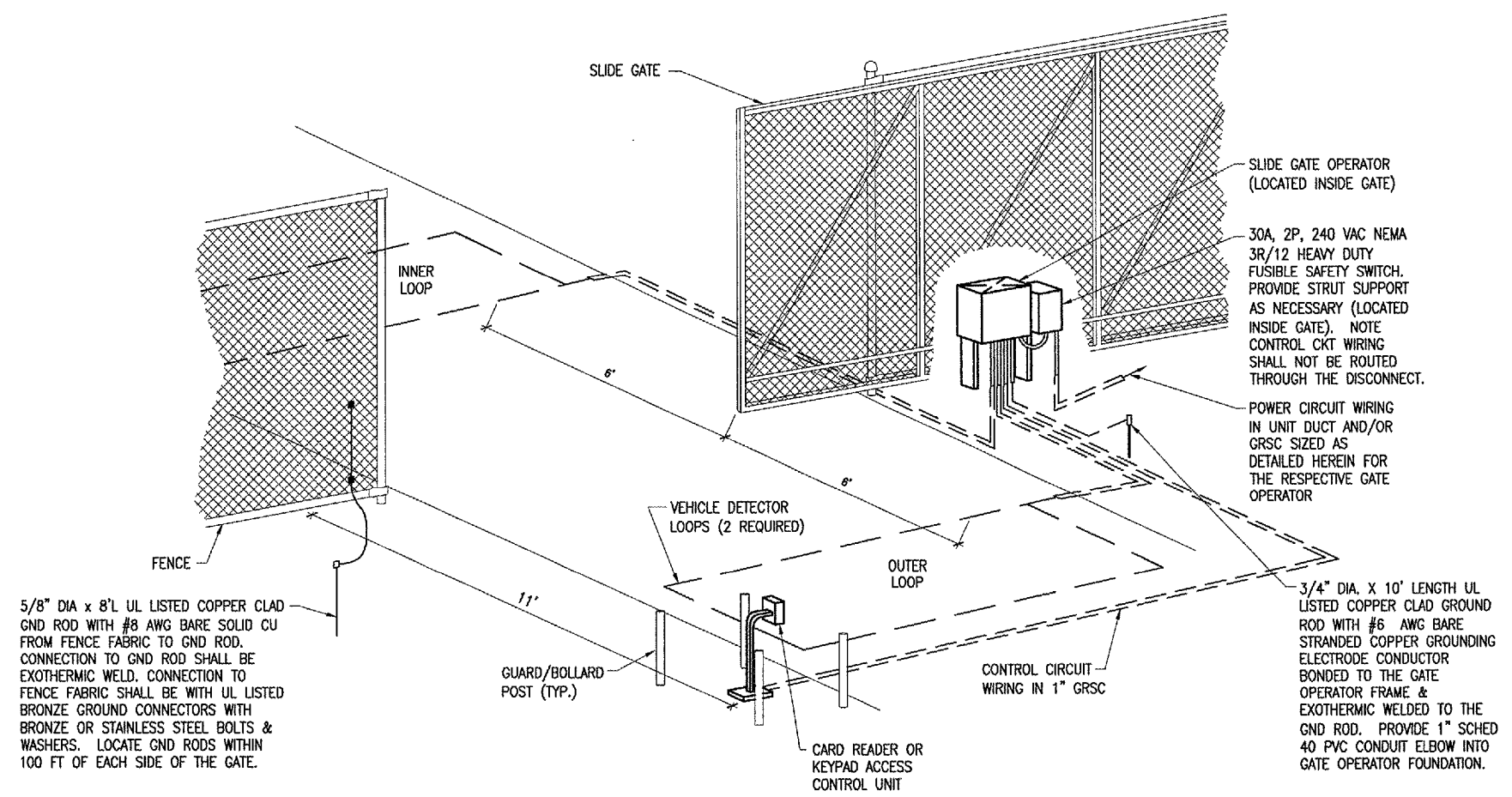


THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND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

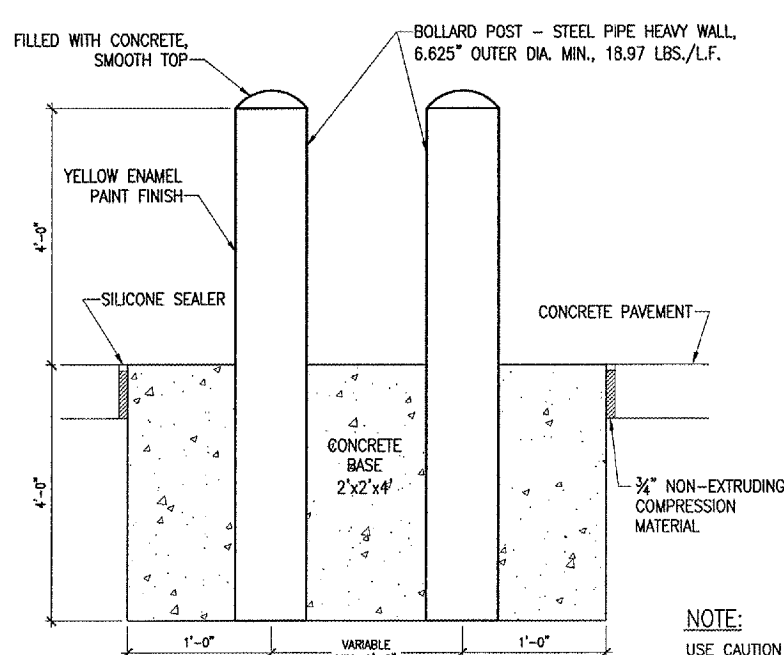
CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.

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DATE	REVISION	BY		
LOGAN COUNTY AIRPORT LINCOLN, ILLINOIS				
A.I.P. PROJ.: 3-17-0062-B12				
IL. PROJ.: AAA-3430				
H&L Project No. 813-05APND_0800 Filename R-171FEN.DWG Scale 1" = 10' Date 01/04/05				
LAYOUT	BAK	01/04/05		
DRAWN	BAK	01/04/05		
REVIEWED	CAH	03/18/05		
HANSON				
Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62705-2886 Offices Nationwide				
REHABILITATE THE G.A. APRON		T-HANGAR ACCESS GATE ELECTRICAL PLAN		
9				
9 of 26 sheets				

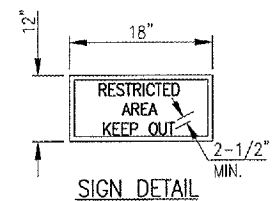


ELECTRIC SLIDE GATE DETAIL
"NOT TO SCALE"



BOLLARD DETAIL
"NOT TO SCALE"

NOTE:
USE CAUTION WHEN DIGGING FOR BOLLARD. REVIEW FOR UNDERGROUND UTILITIES BEFORE DIGGING.



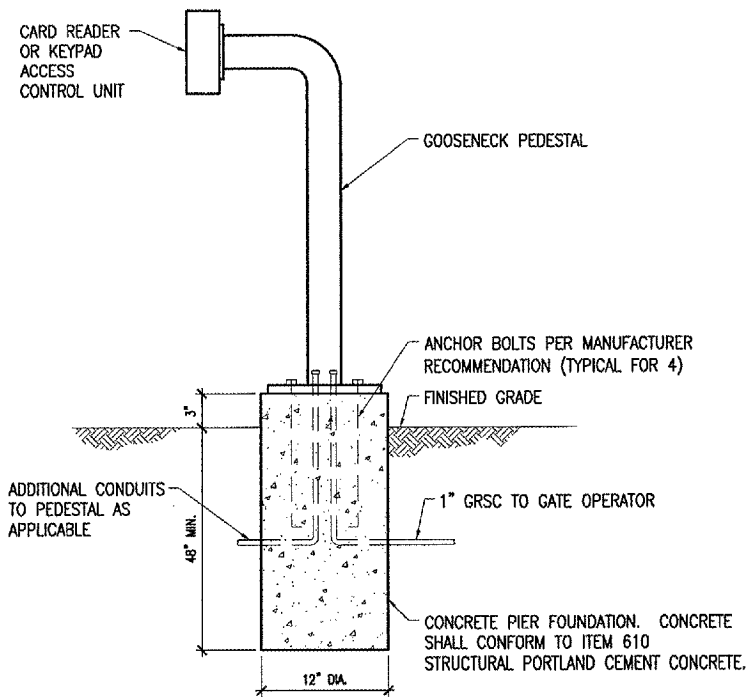
NOTE:
0.08 GA. ALUMINUM ALLOY SHEET LETTERING COLOR SHALL BE RED. EACH GATE SHALL REQUIRE ONE SIGN. EVERY 100' OF FENCE SHALL REQUIRE ONE SIGN.

VEHICLE DETECTOR LOOPS		
GATE SIZE	LOOP SIZE	NO. OF TURNS
8' TO 12'	4' X 6'	3 TURNS
12' TO 16'	4' X 10'	2 TURNS
16' TO 20'	4' X 14'	2 TURNS
20' TO 24'	4' X 18'	2 TURNS
24' TO 30'	6' X 22'	2 TURNS
30' TO 34'	6' X 26'	2 TURNS

- NOTES:**
- SEE SPECIAL PROVISION SPECIFICATIONS FOR REQUIREMENTS ON GATE & GATE OPERATOR SYSTEM.
 - ALL DIMENSIONS AND LAYOUT INFORMATION SHOWN SHOULD BE ADJUSTED AS RECOMMENDED BY THE MANUFACTURER.
 - CONCRETE FOUNDATIONS SHALL BE PROVIDED FOR THE SLIDE GATE OPERATOR AND THE CARD READER OR KEYPAD ACCESS CONTROL UNIT. FOUNDATION FOR THE GATE OPERATOR SHALL BE 48" (MIN.) IN DEPTH AND OF THE SIZE RECOMMENDED BY THE MANUFACTURER. FOUNDATION FOR THE CARD READER/KEYPAD ACCESS CONTROL UNIT SHALL BE 48" (MIN.) IN DEPTH, AS DETAILED HEREIN.
 - 1" GRS CONDUIT WILL BE REQUIRED BETWEEN THE SLIDE GATE OPERATOR AND THE CARD READER OR KEYPAD ACCESS CONTROL UNIT AND BETWEEN THE SLIDE GATE OPERATOR AND THE DETECTOR LOOPS. THE MINIMUM BURYING DEPTH IS 24". ALL METAL CONDUITS ENTERING THE GATE OPERATOR SHALL BE BONDED TO THE GATE OPERATOR FRAME WITH A #8 AWG (MIN.) COPPER BONDING JUMPER.
 - THE GUARD/BOLLARD POSTS SHALL BE 6" DIA. STEEL (HEAVY WALL) PIPE, CONCRETE FILLED, AND SHALL EXTEND FROM THE TOP OF THE CARD CONTROL UNIT TO A DEPTH OF 48" BELOW THE GROUND LINE. THE CONCRETE FOOTER DIMENSION SHALL BE 2' X 2' X 4'. GUARD/BOLLARD POSTS SHALL BE PAINTED WITH YELLOW COLORED ENAMEL FINISH.
 - THE SLIDING GATE SHALL BE CANTILEVER TYPE OF THE SIZE CALLED FOR ON THE PLANS WITH AN ENCLOSED ROLLER ASSEMBLY WHICH IS PROTECTED FROM FREEZING RAIN AND SNOW, AND SHALL BE AS MANUFACTURED BY TYMETAL CORPORATION, ANCHOR FENCE INC., EDKO, OR APPROVED EQUAL.
 - THE SLIDE GATE OPERATOR IS TO BE MOUNTED ON A STEEL PLATFORM LOCATED APPROXIMATELY 1'-6" ABOVE THE GROUND. WHERE STEEL PLATFORM IS NOT A STANDARD OPTION EXTEND THE FOOTING/FOUNDATION PAD APPROXIMATELY 8" ABOVE GRADE. SHOP DRAWINGS APPROVAL IS REQUIRED.
 - CONTRACTOR SHALL PROVIDE VERIFICATION THAT THE PROPOSED GATE OPERATOR IS SUITABLE FOR USE WITH & PROPERLY SIZED FOR THE RESPECTIVE SLIDE GATE.
 - PAYMENT FOR THE ELECTRIC SLIDE GATE SHALL BE ON A LUMP SUM BASIS AND SHALL BE FULL COMPENSATION FOR ALL MATERIALS, EQUIPMENT, CABLE IN CONDUIT, DUCT, OR UNIT DUCT, GROUNDING, LABOR AND INCIDENTALS REQUIRED TO INSTALL THE RESPECTIVE GATE COMPLETE AND IN OPERATING CONDITION.
 - CONTRACTOR SHALL COORDINATE ANY POWER OUTAGES TO EXISTING EQUIPMENT WITH THE RESPECTIVE OWNER'S REPRESENTATIVE AND THE AIRPORT MANAGER.
 - INCLUDE LOW VOLTAGE LINE PROTECTOR FOR THE CARD READER OR KEYPAD ACCESS CONTROL UNIT SUITABLE FOR USE ON THE RESPECTIVE CONTROL VOLTAGE SYSTEM, WITH SURGE CURRENT MAXIMUM RATING OF 3000 AMPS, LIFETIME PRODUCT REPLACEMENT WARRANTY AND AS RECOMMENDED BY THE KEYPAD ACCESS CONTROL UNIT MANUFACTURER'S REPRESENTATIVE.
 - INCLUDE UL LISTED SECONDARY SURGE ARRESTER FOR THE GATE OPERATOR SUITABLE FOR USE ON 240 VAC, 1 PHASE, 2 WIRE PLUS GROUND SYSTEM, WITH SURGE CURRENT RATING OF 100 KA PER MODE, LIFETIME PRODUCT REPLACEMENT WARRANTY, AND AS RECOMMENDED BY THE GATE OPERATOR MANUFACTURER'S REPRESENTATIVE.
 - INCLUDE LIGHTNING PROTECTION/SURGE ARRESTERS FOR THE DETECTOR AMPLIFIERS, AS RECOMMENDED BY THE MANUFACTURER.
 - CONCRETE USED FOR INSTALLING THE GATE OPERATOR, CARD READER/KEYPAD STATION, & FENCE SHALL MEET THE REQUIREMENTS OF STRUCTURAL PORTLAND CEMENT CONCRETE ITEM AR610.
 - CONTRACTOR SHALL VERIFY WITH THE AIRPORT MANAGER THE ACCESS CONTROLLER TYPE (CARD READER OR KEYPAD STATION) PRIOR TO ORDERING. INCLUDE 250 CARDS WITH CARD READER WHERE APPLICABLE.
 - CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT THE ELECTRIC GATE OPERATOR, SLIDE GATE, & ALL ASSOCIATED POWER & CONTROL DEVICES ARE COMPATIBLE WITH EACH OTHER & SUITABLE FOR THE RESPECTIVE APPLICATION TO PROVIDE A COMPLETE AND PROPERLY OPERATIONAL ELECTRIC SLIDE GATE INSTALLATION.

MAY 27, 2005 1:23 PM BAK
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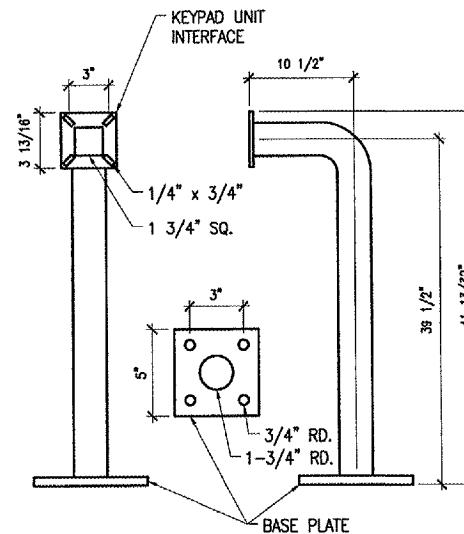
DATE	REVISION	BY								
LOGAN COUNTY AIRPORT LINCOLN, ILLINOIS										
A.I.P. PROJ.: 3-17-0062-B12 IL PROJ.: AAA-3430										
H&L Project No. 813-05A.PND.0800- Filename: E-502.DWG Scale: NONE Date:		LAYOUT DRAWN: KNL DPE REVIEWED: KNL	6/23/04 6/24/04 03/18/05							HANSON <small>Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62705-2886 Offices Nationwide</small>
INSTALL PERIMETER SECURITY FENCE		GATE & ELECTRIC OPERATOR DETAIL								
10										
10 of 26 sheets										



**CARD READER/KEYPAD ACCESS CONTROL
UNIT PEDESTAL ELEVATION DETAIL**

SCALE: NONE

NOTE:
SEE SPECIAL PROVISION SPECS FOR REQUIREMENTS ON
CARD READER OR KEYPAD ACCESS CONTROL UNIT.



GOOSENECK PEDESTAL DETAIL

SCALE: NONE

NOTE:
GOOSENECK PEDESTAL SHALL BE AMERICAN ACCESS SYSTEMS,
INC. (7079 SOUTH JORDAN RD., UNIT 6, ENGLEWOOD, CO
80112, PHONE: 800-541-5677, FAX 303-799-9756) MODEL
18-001 OR APPROVED EQUAL.

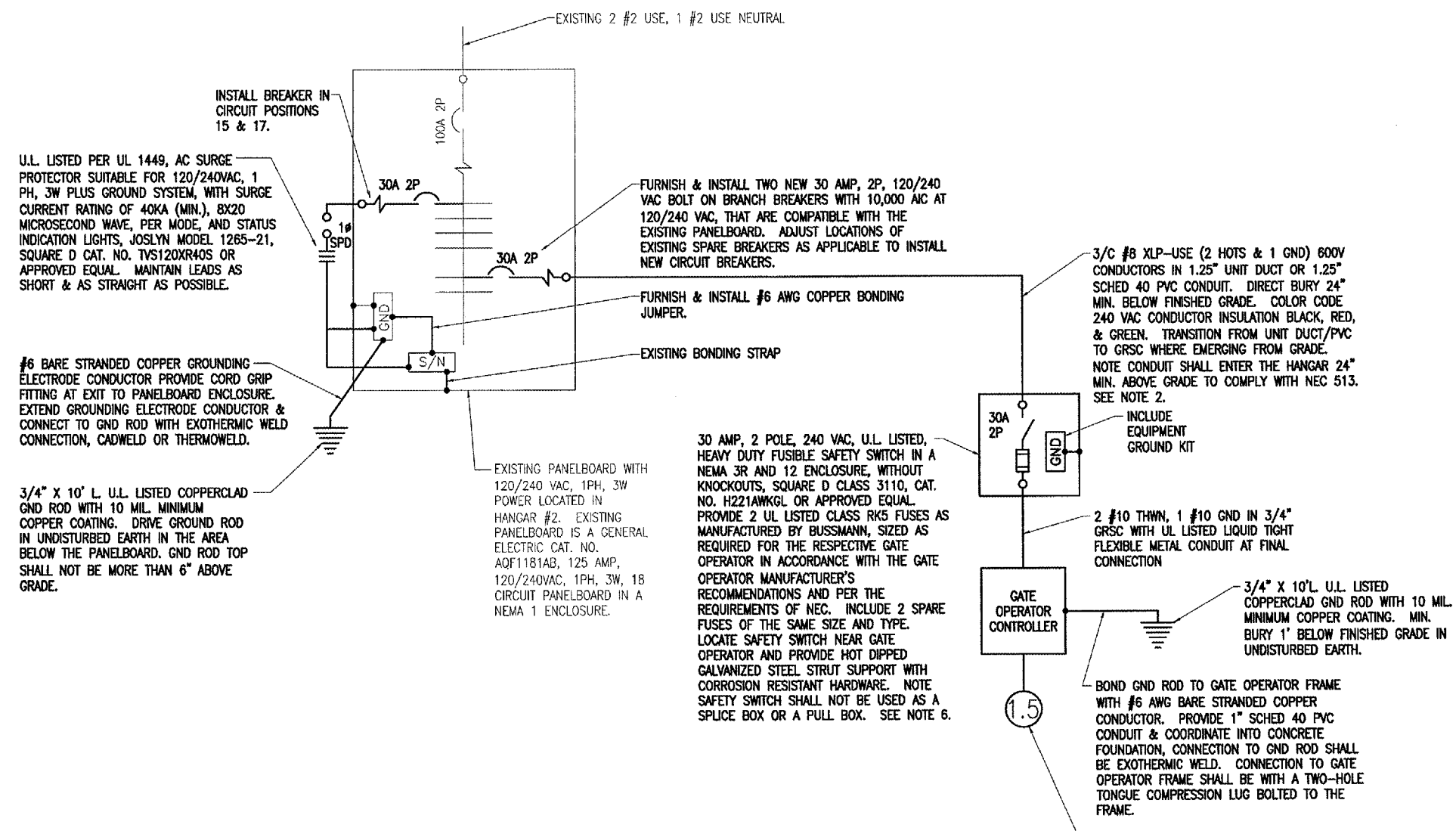
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REHABILITATE THE G.A. APRON	ELECTRICAL DETAILS	LOGAN COUNTY AIRPORT LINCOLN, ILLINOIS		DATE	REVISION	BY
		ILL. PROJ.: AAA-3430 A.I.P. PROJ.: 3-17-0062-B12				
		ILL. Project No. 813-05APRD_0800 Filename E-501.DWG Scale NONE Date 02/10/05		LAYOUT	KNL	02/10/05
		DRAWN	BAK	02/10/05		
		REVIEWED	KNL	03/18/05		
				Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62705-2886 Offices Nationwide		
11		11 of 26 sheets				

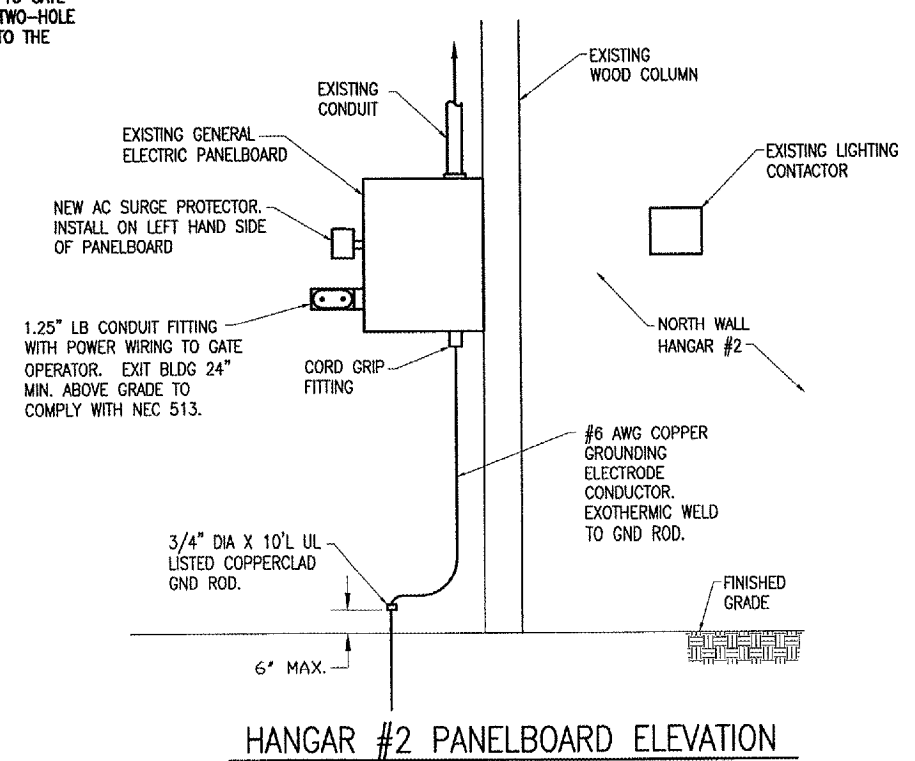
ELECTRICAL NOTES

1. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (MOST CURRENT ISSUE IN FORCE), THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES, AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
2. PER NEC 513 THE ENTIRE AREA OF THE HANGAR INCLUDING ANY ADJACENT AND COMMUNICATING AREAS NOT SUITABLE CUT OFF FROM THE HANGAR, SHALL BE CLASSIFIED AS A CLASS 1, DIVISION 2 HAZARDOUS LOCATION UP TO A LEVEL 18 INCHES ABOVE THE FLOOR. AREAS IN THE VICINITY OF AIRCRAFT ARE ALSO CLASSIFIED AS HAZARDOUS AS DEFINED BY NEC 513. ALL ELECTRICAL INSTALLATIONS IN CLASSIFIED HAZARDOUS LOCATIONS SHALL BE AVOIDED UNLESS SPECIFICALLY APPROVED FOR SUCH LOCATIONS AND INSTALLED IN CONFORMANCE WITH NEC 500, 501, AND 513 AS WELL AS ANY OTHER APPLICABLE CODES AND REQUIREMENTS.
3. CONTRACTOR SHALL COORDINATE NEW WORK AND ANY POWER OUTAGES TO EXISTING EQUIPMENT WITH THE RESPECTIVE OWNER & THE AIRPORT MANAGER.
4. ALL EQUIPMENT NOT LABELED AS EXISTING IS NEW.
5. GRSC DENOTES GALVANIZED RIGID STEEL CONDUIT (HEAVY WALL).
6. PROVIDE A WEATHERPROOF ENGRAVED PHENOLIC OR PLASTIC LEGEND PLATE FOR THE SAFETY SWITCH AT THE RESPECTIVE GATE OPERATOR NOTING THE GATE SERVED, VOLTAGE, & THE RESPECTIVE POWER SOURCE CIRCUIT AND LOCATION.
7. FURNISH & INSTALL ALL REQUIRED CONTROL CIRCUIT WIRING IN GALVANIZED RIGID STEEL CONDUIT FOR EACH RESPECTIVE GATE OPERATOR. CONFIRM CONTROL WIRING REQUIREMENTS WITH THE RESPECTIVE GATE OPERATOR SYSTEM SALES REPRESENTATIVE. CONFORM CARD READER OR KEYPAD ACCESS CONTROL UNIT LOCATION WITH THE RESPECTIVE SITE PERSONNEL AND AIRPORT MANAGER.
8. INSULATED EQUIPMENT GROUND CONDUCTORS SHALL HAVE GREEN COLORED INSULATION FOR ALL CONDUCTORS AWG. COLOR CODING GROUND CONDUCTORS WITH GREEN TAPE SHALL NOT MEET THIS REQUIREMENT.
9. FIELD VERIFY CONDUIT & CABLE ROUTING.

EXISTING 120/240 VAC, 1 PH, 3W POWER FROM 100 AMP, 2 POLE FEEDER BREAKER IN AIRPORT VAULT PANELBOARD



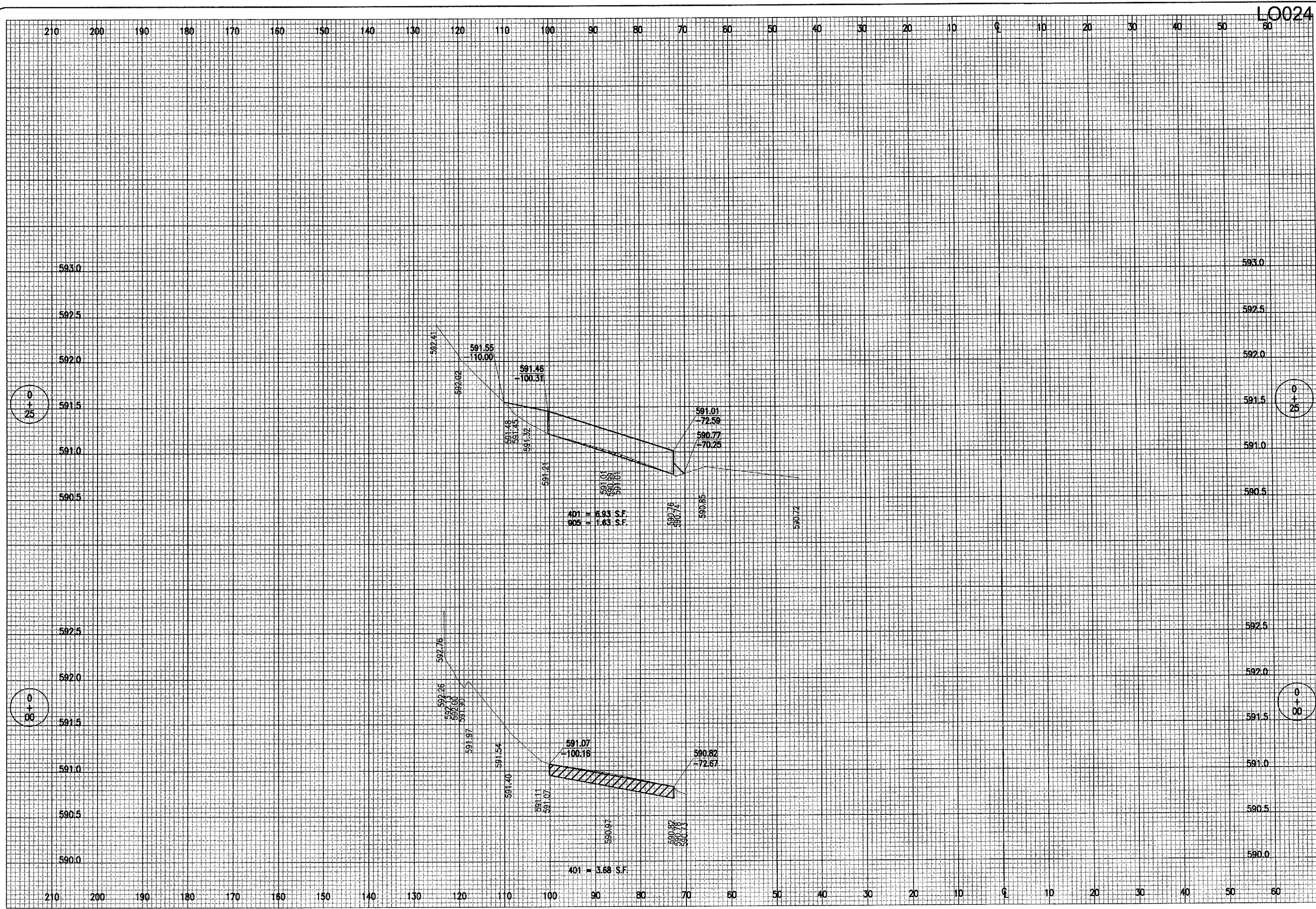
ELECTRICAL ONE-LINE DIAGRAM FOR T-HANGAR ACCESS GATE OPERATOR



HANGAR #2 PANELBOARD ELEVATION

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BY	
REVISION	
DATE	
LOGAN COUNTY AIRPORT LINCOLN, ILLINOIS	
HEL Project No.	813-05APND 0800
Electronic	E-603.DWG
Scale	NONE
Notes	
LAYOUT	KNL 02/07/05
DRAWN	BAK 02/07/05
REVIEWED	KNL 03/18/05
 Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62703-2888 Offices Nationwide	
REHABILITATE THE G.A. APRON ELECTRICAL ONE LINE T-HANGAR ACCESS	
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12 of 28 sheets	



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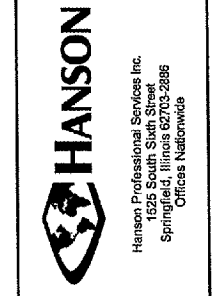
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 LINCOLN, ILLINOIS**

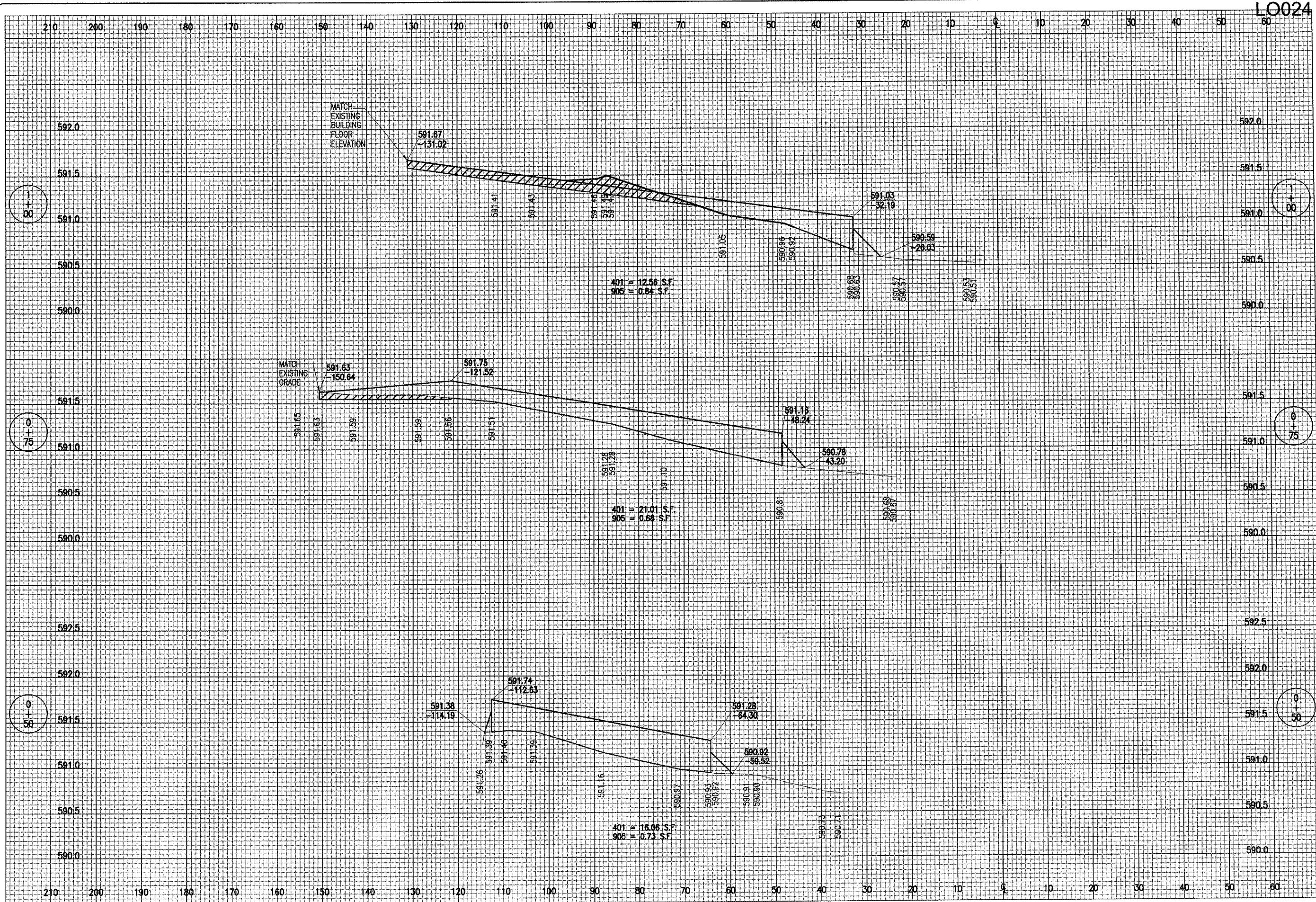
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Date 01/21/05	
LAYOUT BKB 01/21/05	
DRAWN BAK 01/21/05	
REVIEWED CAH 03/18/05	



**REHABILITATE THE
 G.A. APRON**

PROPOSED CROSS-SECTIONS
 FOR G.A. APRON
 STA. 0+00 TO STA. 0+25



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IL PROJ.: AA-3430 A.I.P. PROJ.: 3-17-0062-B12

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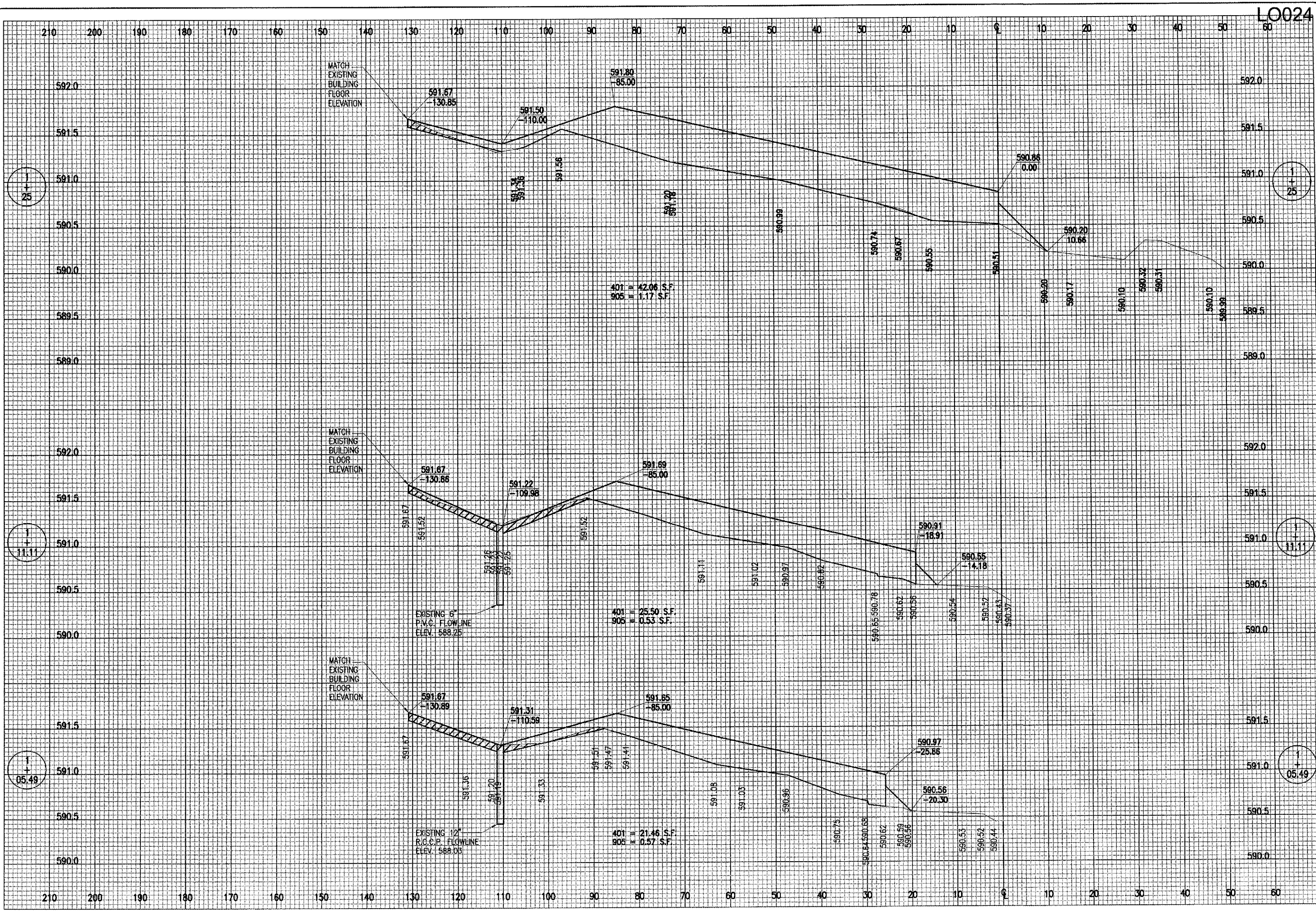
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DRAWN	BAK	01/21/05
REVIEWED	CAH	03/18/05



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REHABILITATE THE
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 PROPOSED CROSS-SECTIONS
 FOR G.A. APRON
 STA. 0+50 TO STA. 1+00

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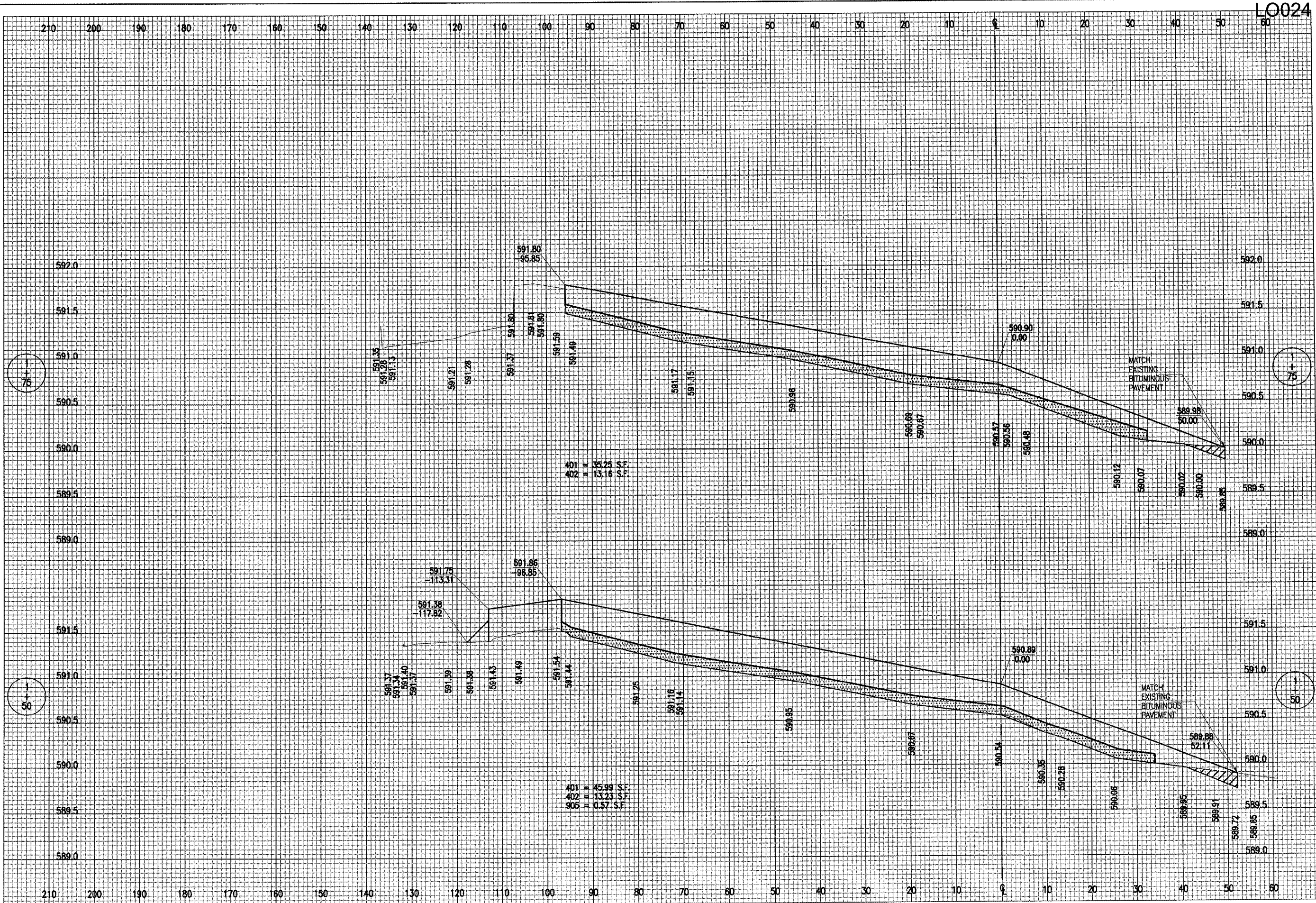
LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS

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REHABILITATE THE
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 PROPOSED CROSS-SECTIONS
 FOR G.A. APRON
 STA. 1+05.49 TO STA. 1+25



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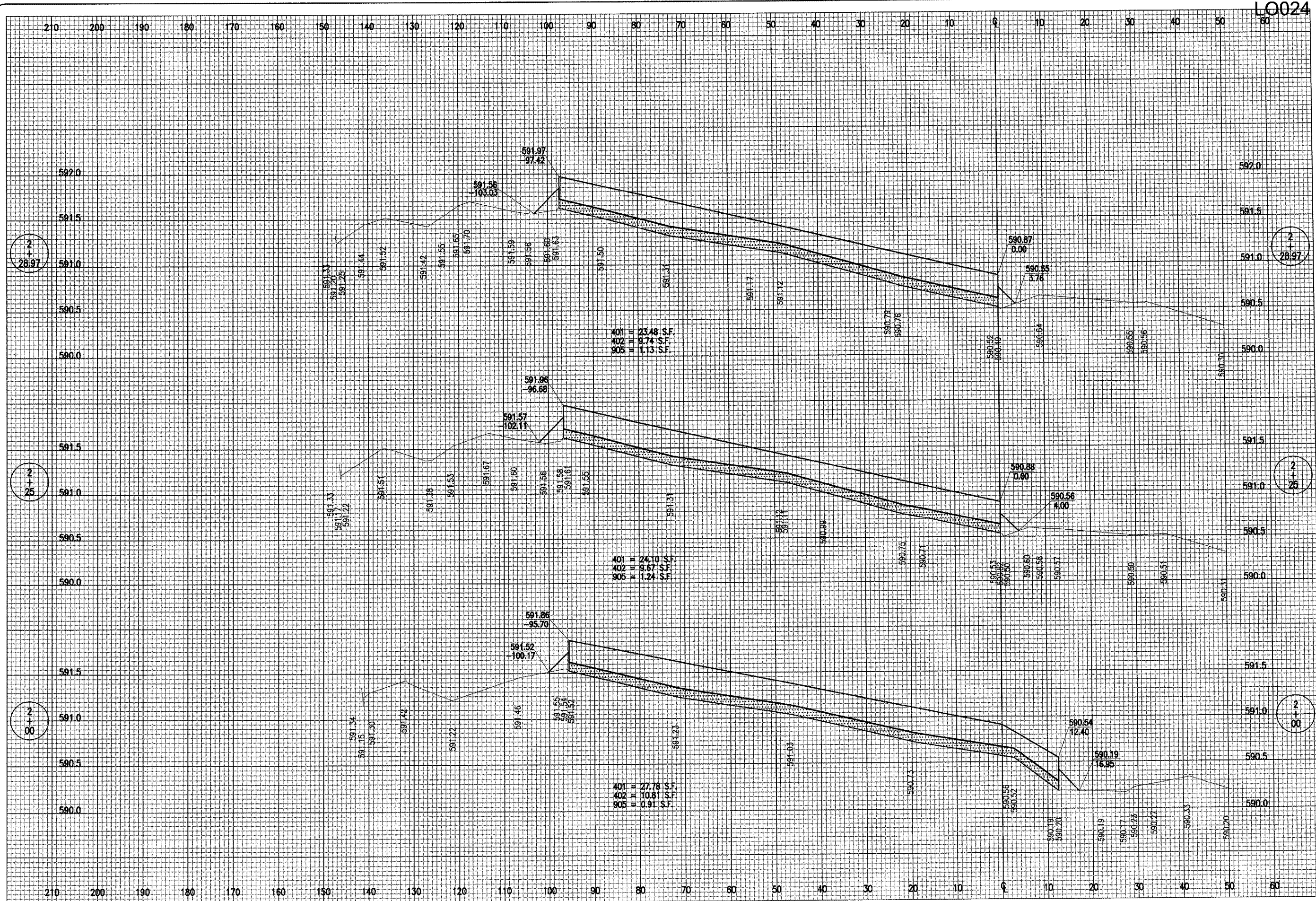
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DRAWN	MDR	01/25/05
REVIEWED	CAH	03/18/05



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 FOR G.A. APRON
 STA. 1+50 TO STA. 1+75



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 LINCOLN, ILLINOIS**

ILL. PROJ.: AAA-3430 A.I.P. PROJ.: 3-17-0062-B12

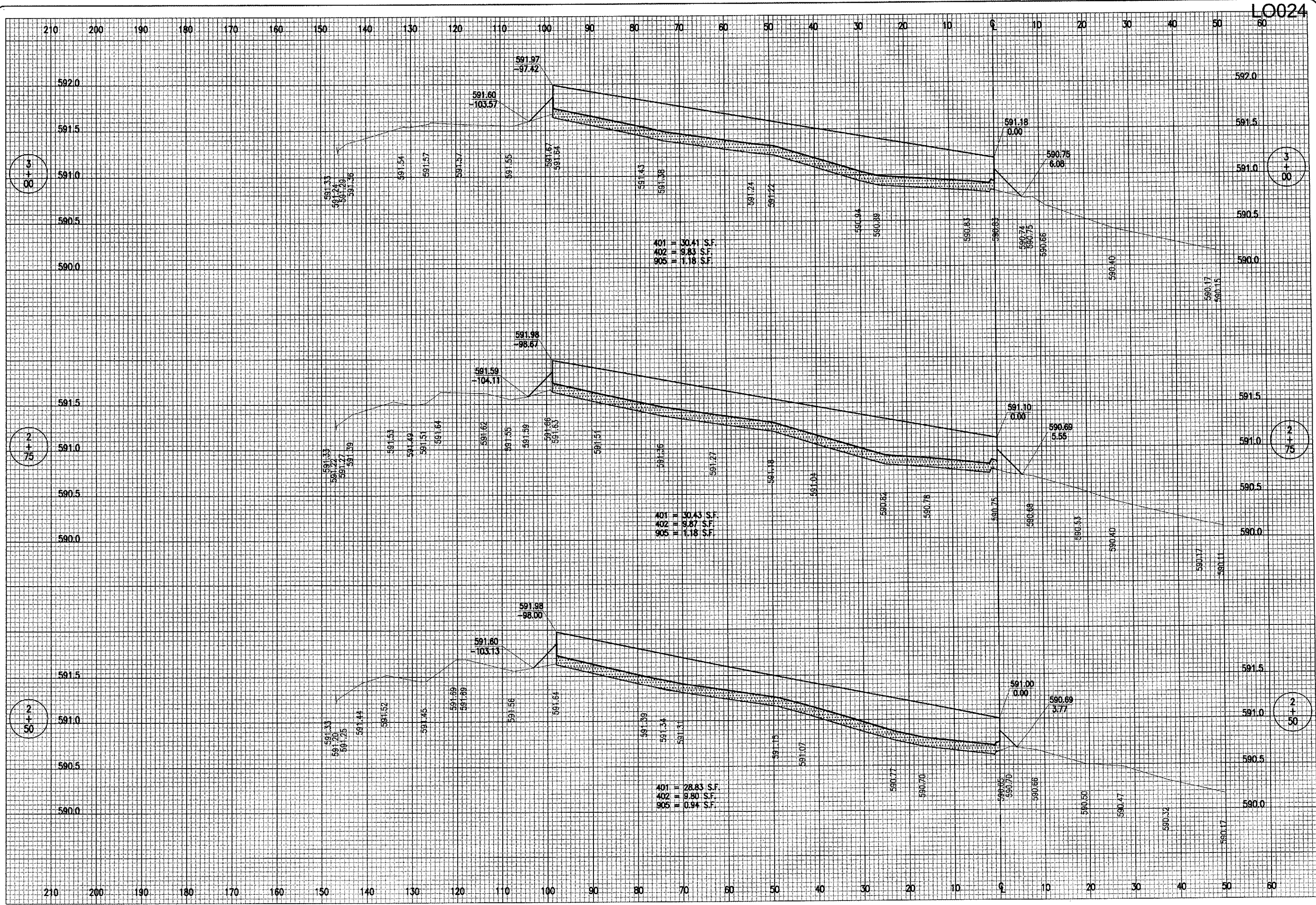
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DRAWN	MDR	01/24/05
REVIEWED	CAH	03/18/05



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 PROPOSED CROSS-SECTIONS
 FOR G.A. APRON
 STA. 2+00 TO STA. 2+28.97



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 LINCOLN, ILLINOIS**

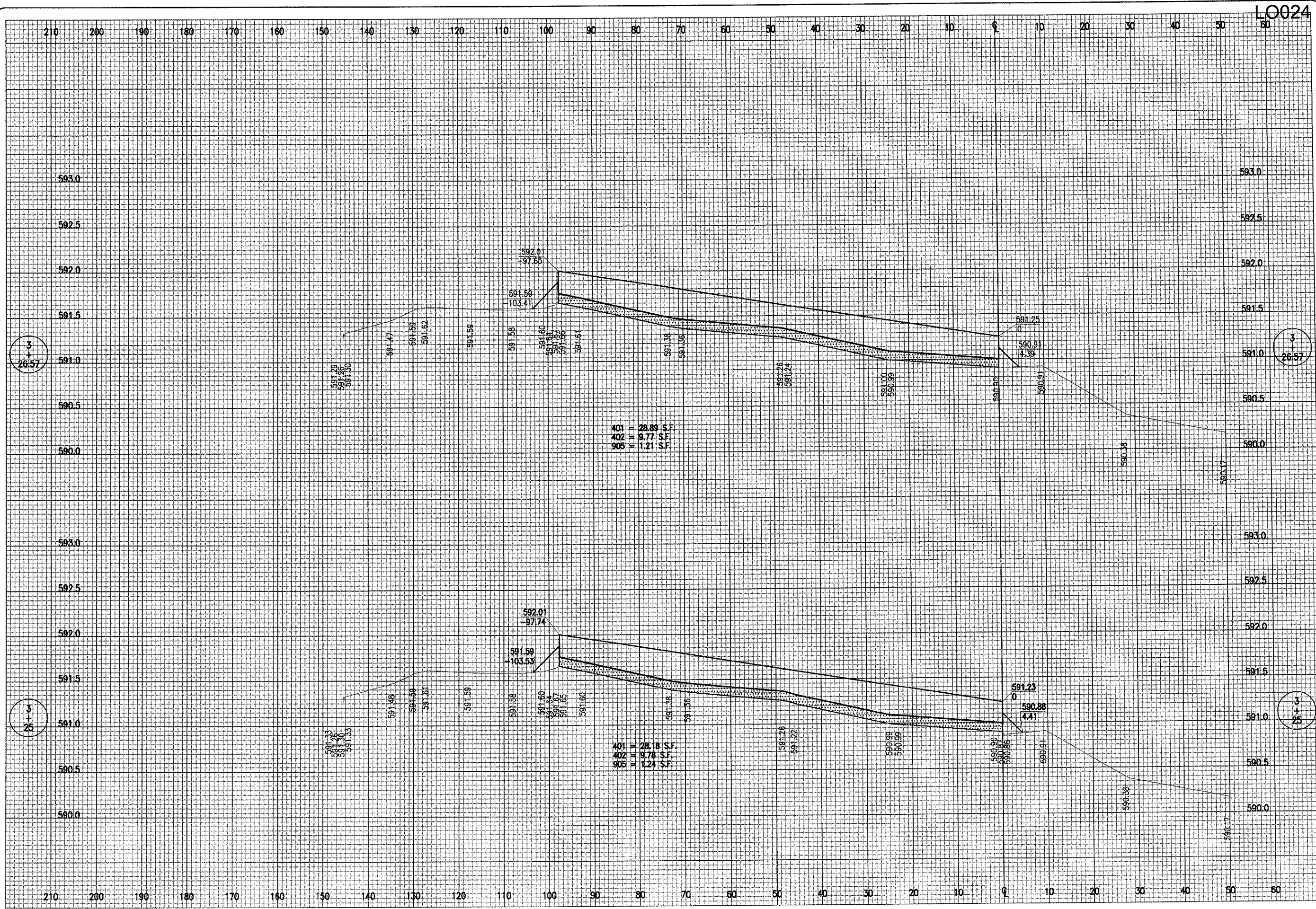
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Date	1/21/05
LAYOUT	BKB 1/21/05
DRAWN	MDR 01/24/05
REVIEWED	CAH 03/18/05



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**REHABILITATE THE
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 FOR G.A. APRON
 STA. 2+50 TO STA 3+00



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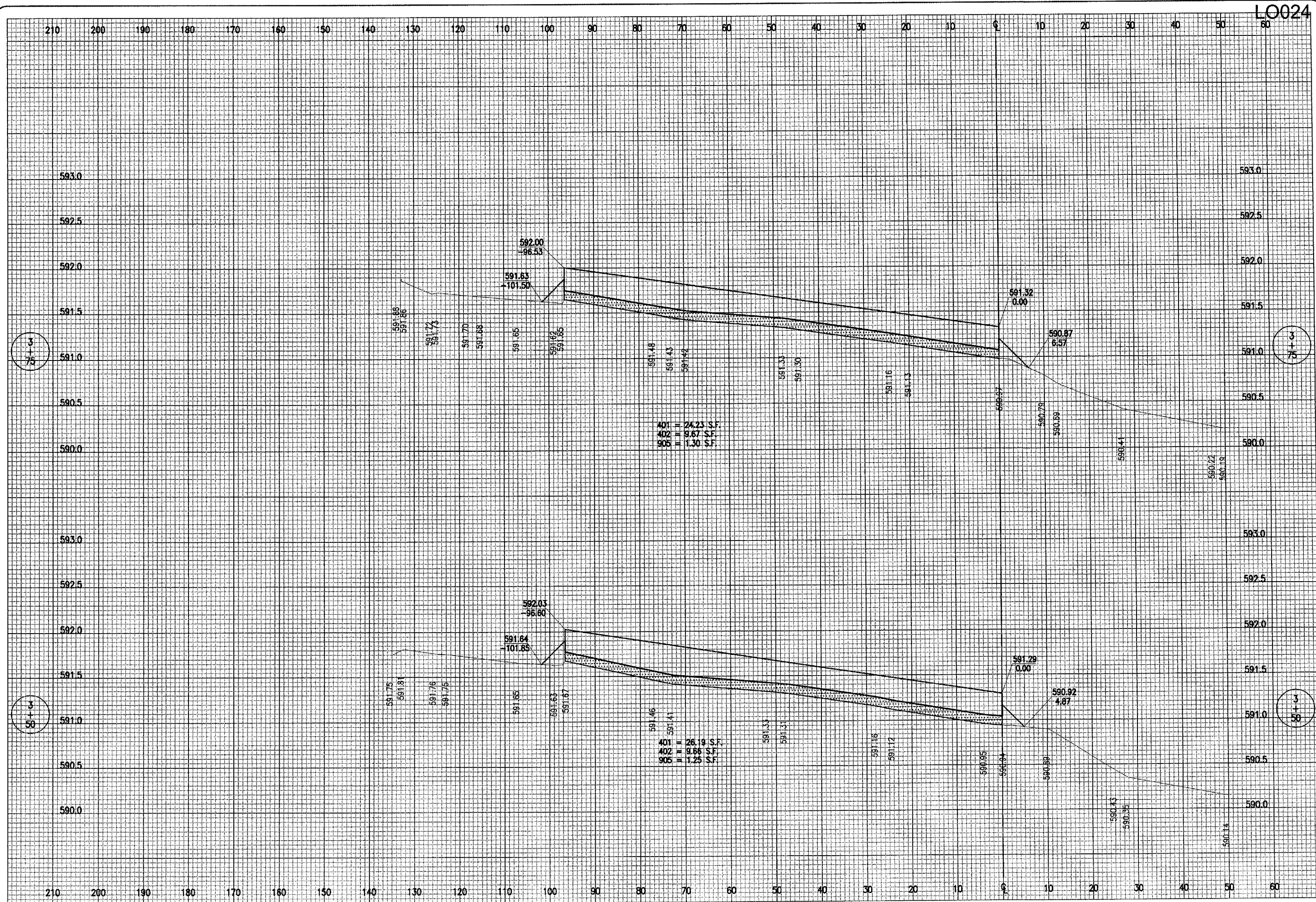
**LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS**

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 Date 01/21/05

LAYOUT	DATE
DRAWN	01/21/05
REVIEWED	03/18/05



**REHABILITATE THE
 G.A. APRON**
 PROPOSED CROSS-SECTIONS
 FOR G.A. APRON
 STA. 3+25 TO STA. 3+26.57

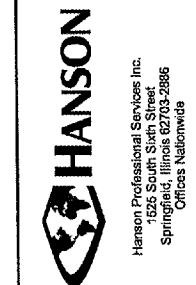


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DATE	REVISION	BY

LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS
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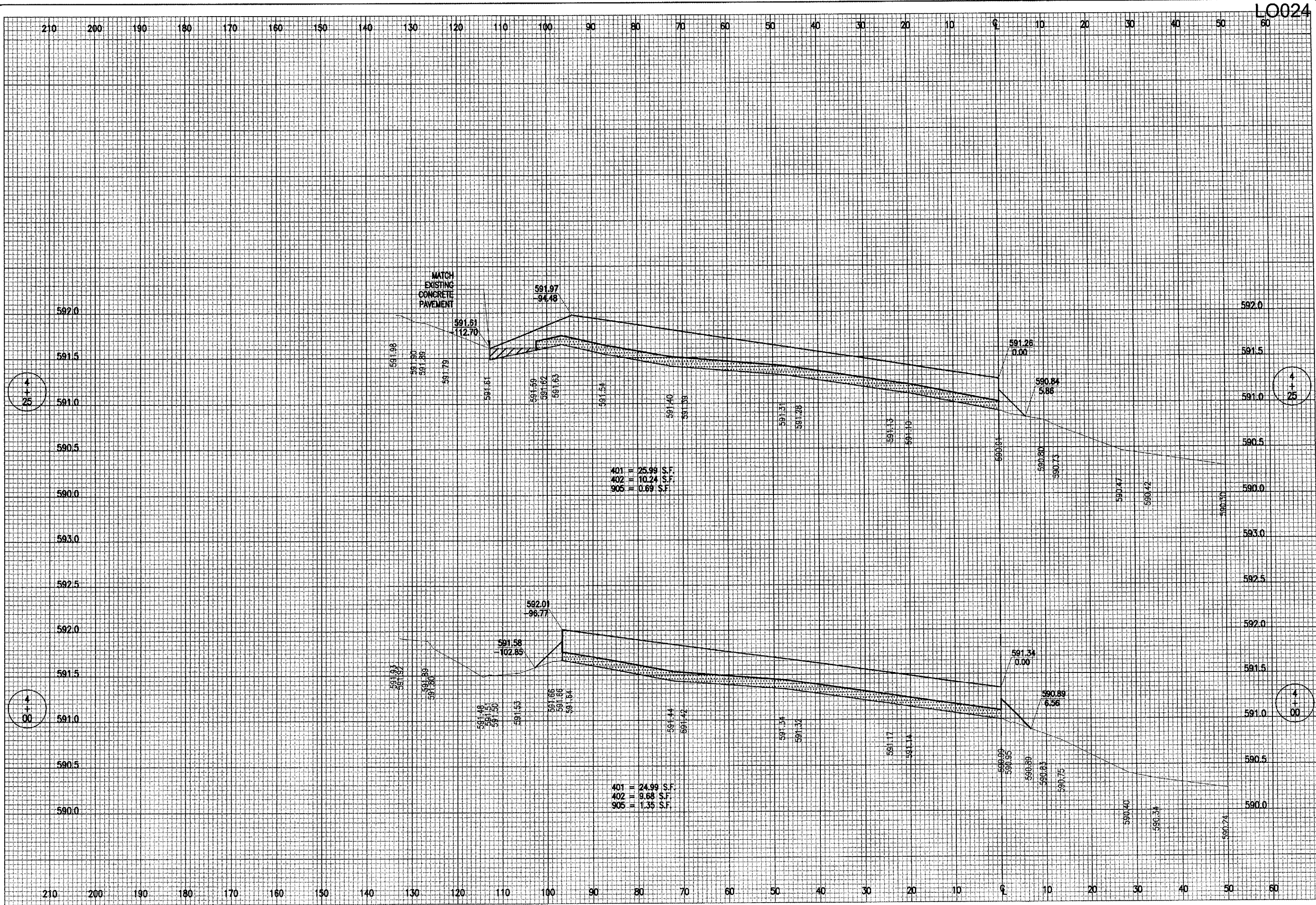
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R-30BXS.DWG	01/21/05	MDR	01/24/05
LAYOUT	01/21/05	BKB	01/21/05



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 G.A. APRON
 PROPOSED CROSS-SECTIONS
 FOR G.A. APRON
 STA. 3+50 TO STA. 3+75

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LOGAN COUNTY AIRPORT LINCOLN, ILLINOIS

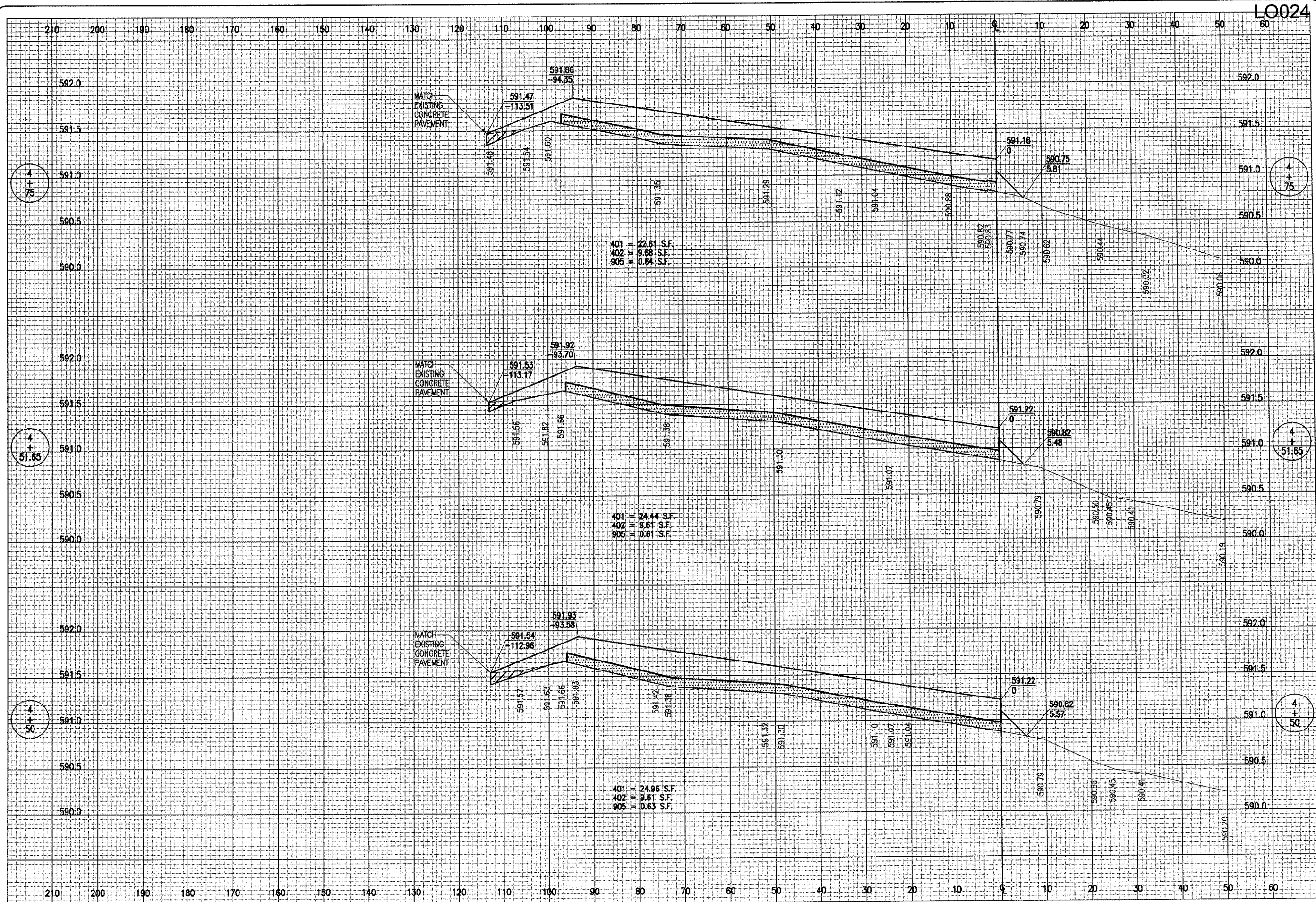
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FOR G.A. APRON
STA. 4+00 TO STA. 4+25



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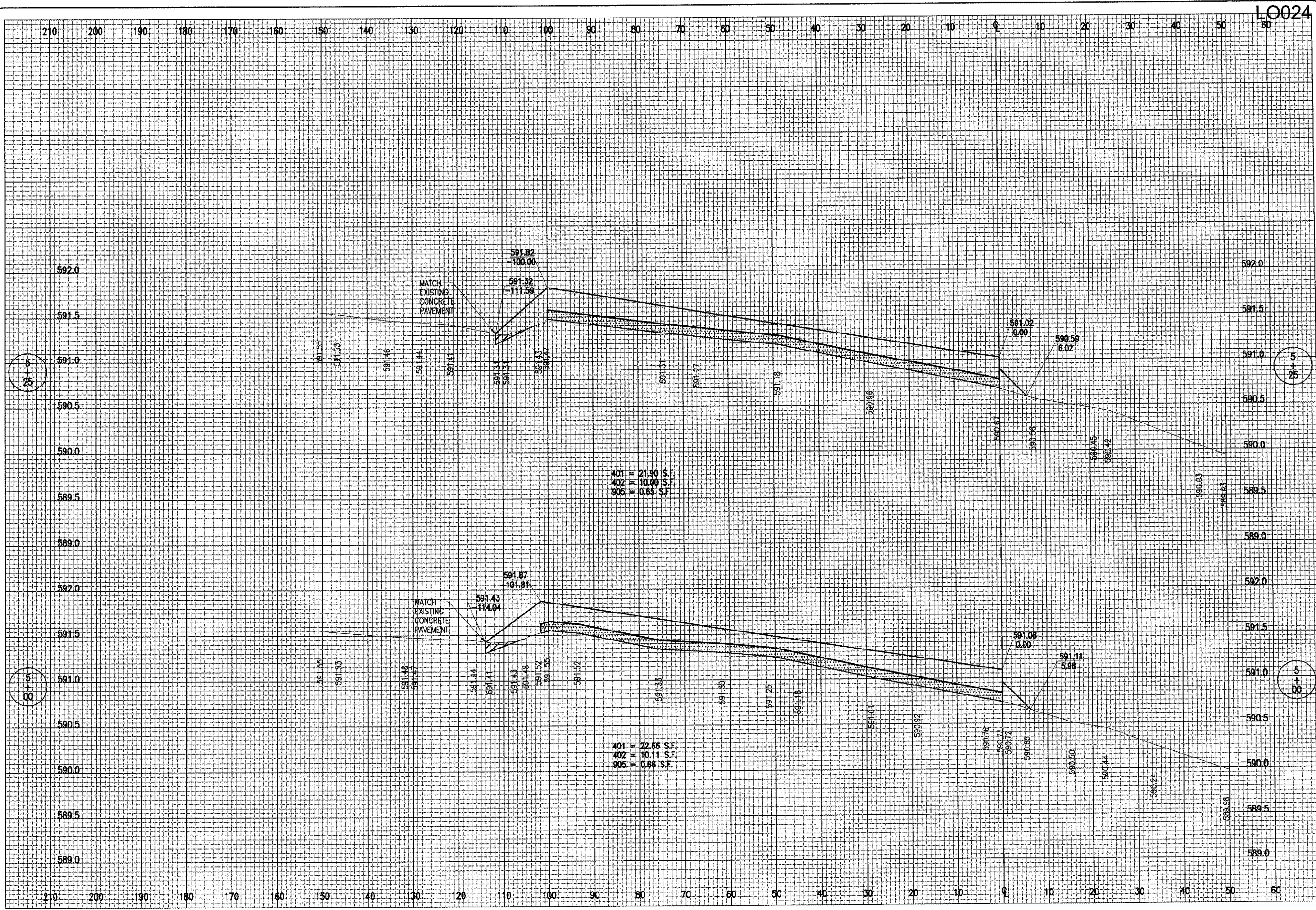
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 I.L. PROJ.: 3-17-0062-B12

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DATE	01/21/05
LAYOUT	BKB 01/21/05
DRAWN	BAK 01/21/05
REVIEWED	CAH 03/18/05



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 STA. 4+50 TO STA. 4+75



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DATE	REVISION	BY

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 LINCOLN, ILLINOIS

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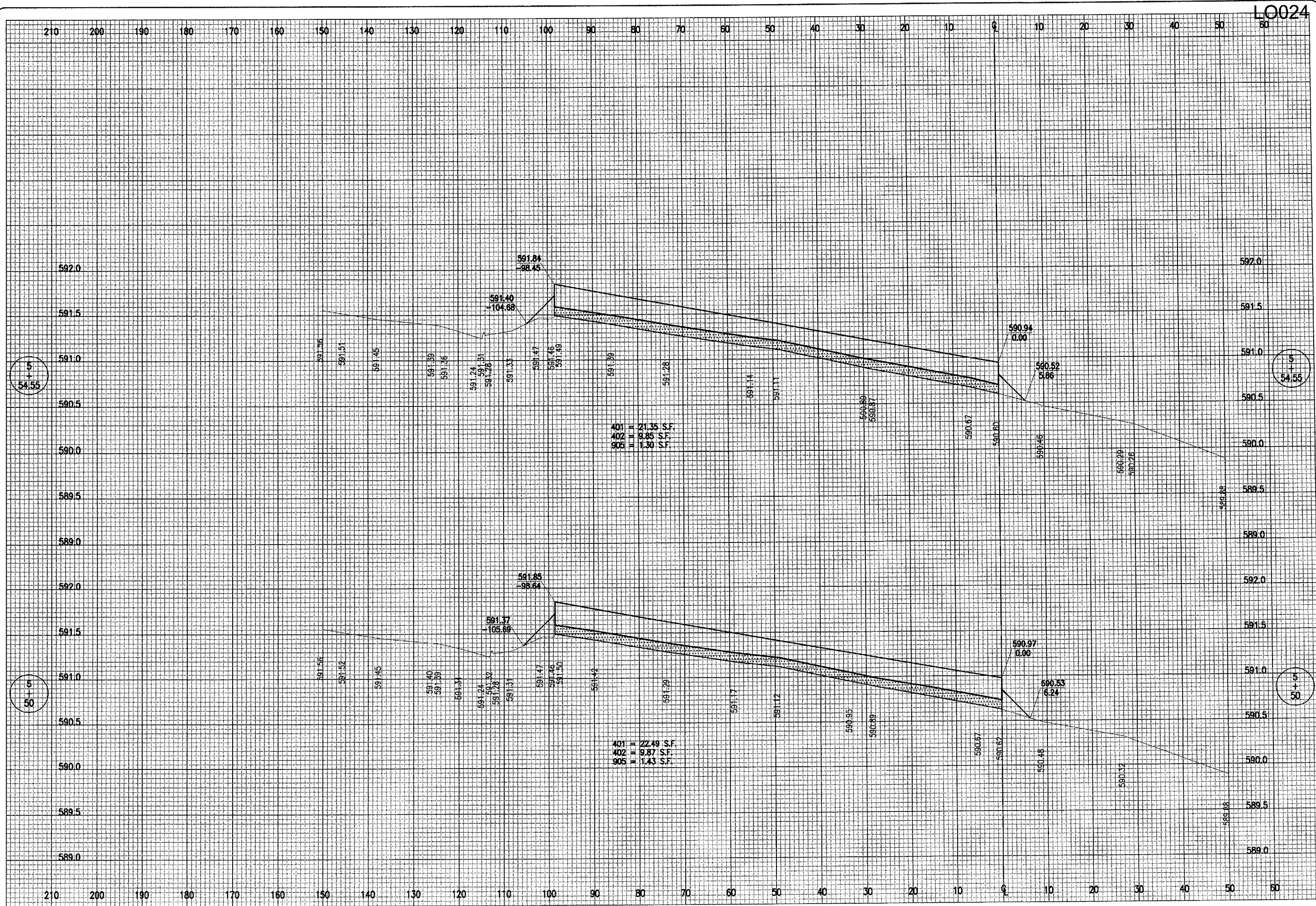
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Plotsheet R-311XS.DWG	DRAWN	MDR	01/24/05
Scale H, 1"=10' V, 1"=0.5'	REVIEWED	CAH	03/18/05
Date 01/21/05			



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 STA. 5+00 TO STA. 5+25

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LOGAN COUNTY AIRPORT
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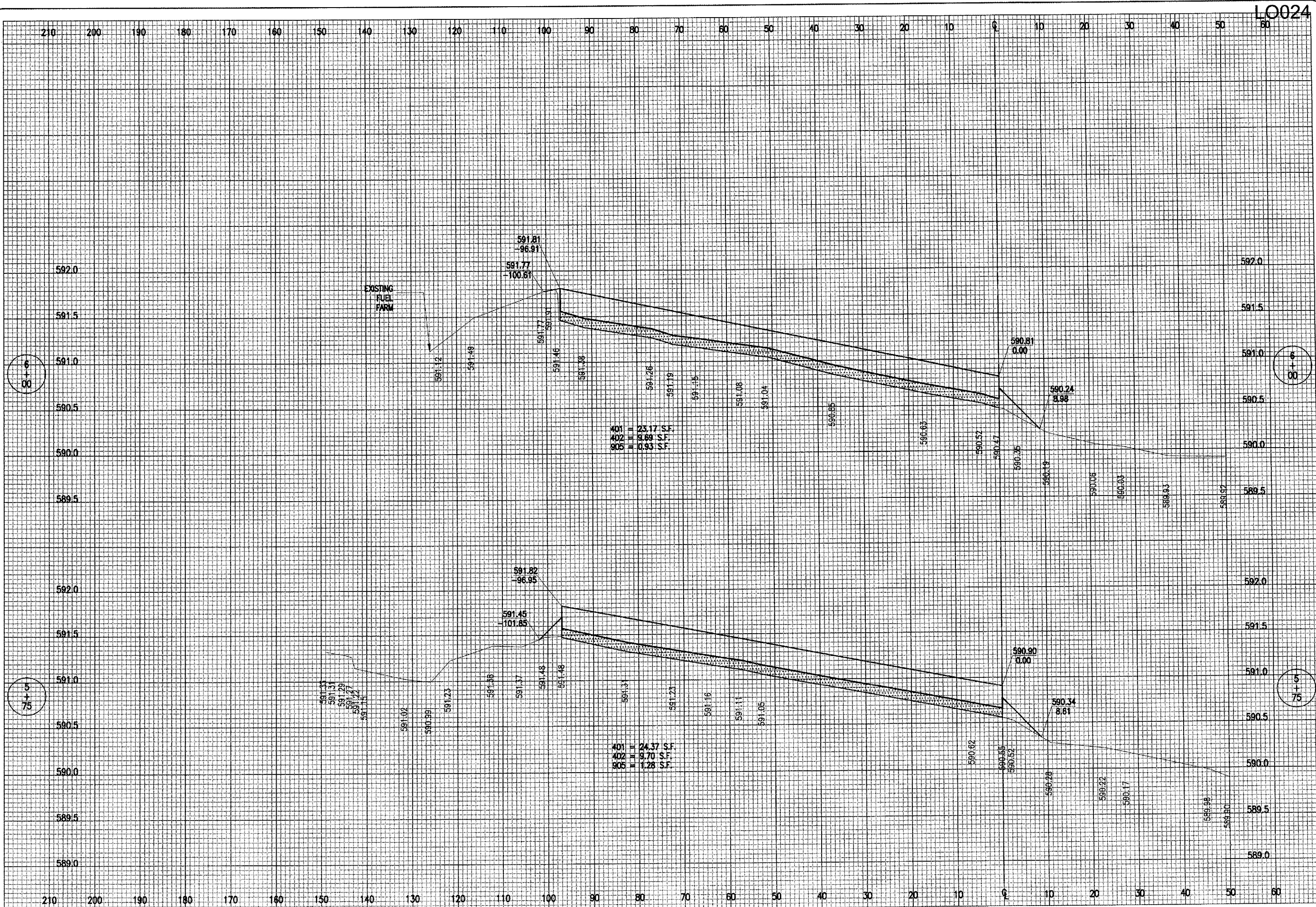
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DRAWN	MDR	01/25/05
REVIEWED	CAH	03/18/05



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 PROPOSED CROSS-SECTIONS
 FOR G.A. APRON
 STA. 5+50 TO STA. 5+54.55



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DATE	REVISION	BY

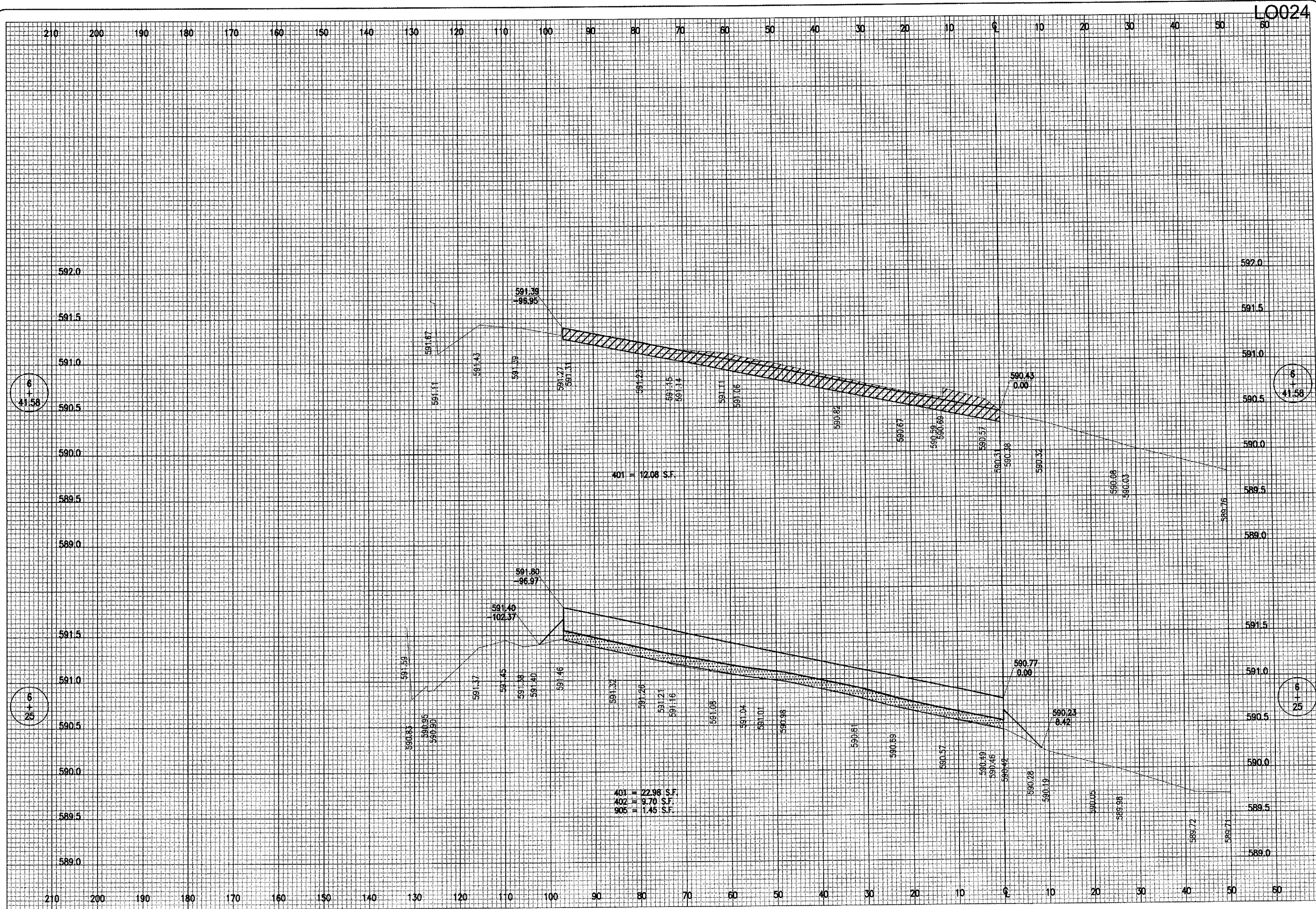
**LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS**

HEL Project No. 813-05APND 0800	Platform R-313XS.DWG	Date 01/25/05
Scale H. 1"=10' V. 1"=0.5'		
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DRAWN	MDR	01/24/05
REVIEWED	CAH	03/18/05



**REHABILITATE THE
 G.A. APRON**
 PROPOSED CROSS-SECTIONS
 FOR G.A. APRON
 STA. 5+75 TO STA. 6+00

ILL. PROJ.: AAA-3430 A.I.P. PROJ.: 3-17-0062-B12



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DATE	REVISION	BY

LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS

IL PROJ.: AAA-3430 A.I.P. PROJ.: 3-17-0062-B12

HEL Project No. 813-05APND 0800

Filename: R-314XS.DWG
 Scale: H. 1"=10' V. 1"=0.5'
 Date: 01/25/05

LAYOUT	BKG	01/21/05
DRAWN	MDR	01/25/05
REVIEWED	CAH	03/18/05



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REHABILITATE THE
 G.A. APRON

PROPOSED CROSS-SECTIONS
 FOR G.A. APRON
 STA. 6+25 TO STA. 6+41.58