

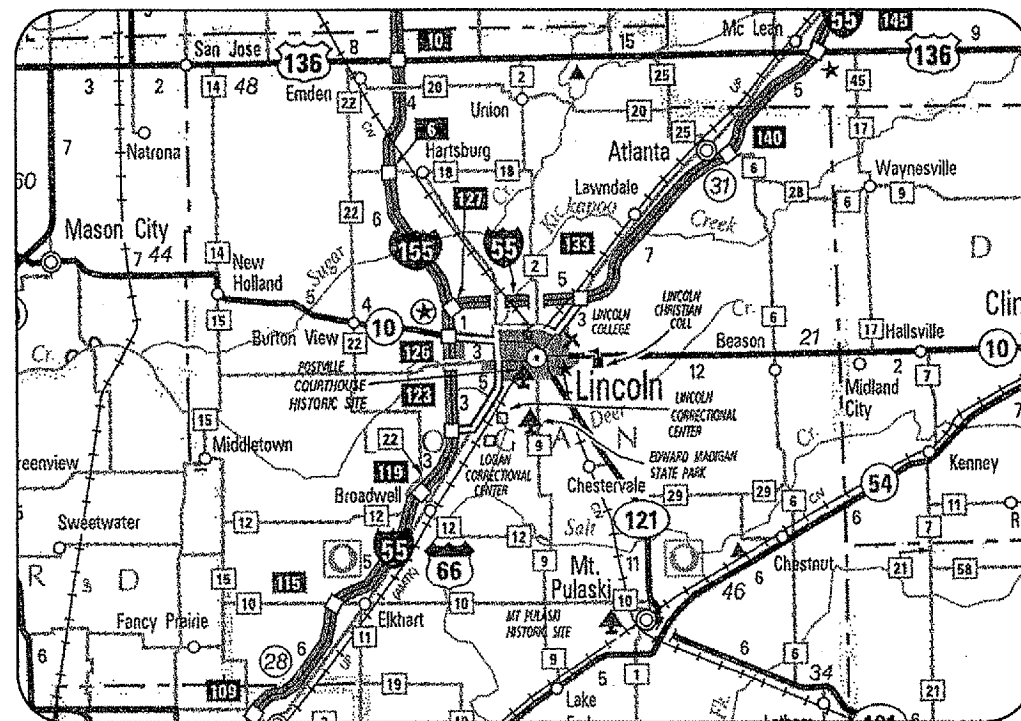
CONSTRUCTION PLANS FOR LOGAN COUNTY AIRPORT LINCOLN, LOGAN COUNTY, ILLINOIS INSTALL STORM SEWER PIPE IN SOUTHEAST QUADRANT

SCOPE OF WORK

THIS PROJECT SHALL CONSISTS OF:

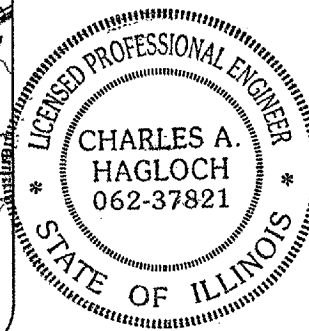
BASE BID - INSTALLING A 54" PIPE IN SOUTHEAST QUADRANT.
ASSOCIATED WORK SHALL CONSIST OF INSTALLING INLETS, FILLING
EXISTING DITCH, REGRADING EXISTING DITCH, SEEDING AND
MULCHING.

ADD. ALT. NO. 1 - INSTALLING UNDERDRAINS IN NORTHWEST
QUADRANT AND GRADING SELECT AREAS.



LOCATION

ILL. PROJ.: AAA-3545
A.I.P. PROJ.: 3-17-0062-B13
LATITUDE: 40° 09' 31"
LONGITUDE: 89° 20' 06"
ELEVATION: 597.0' M.S.L.
DATE: NOV. 3, 2006



REVISED 12/22/06



Submitted by: *Charles A. Hagloch* ENG'R
Date Submitted: DECEMBER 22, 2006
Lic. Exp. Date: NOVEMBER 30, 2007

LOGAN COUNTY BOARD

Approved: _____ CHAIRMAN
Date: _____
Approved: _____ SECRETARY
Date: _____

REVISION	DATE

LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS

ILL. PROJ.: AAA-3545
A.I.P. PROJ.: 3-17-0062-B13

FILE	DATE	BY
813-06DEND.0800	07/13/06	CAH
R-0010V.DWG	07/13/06	BAK
NOT TO SCALE	07/13/06	CAH

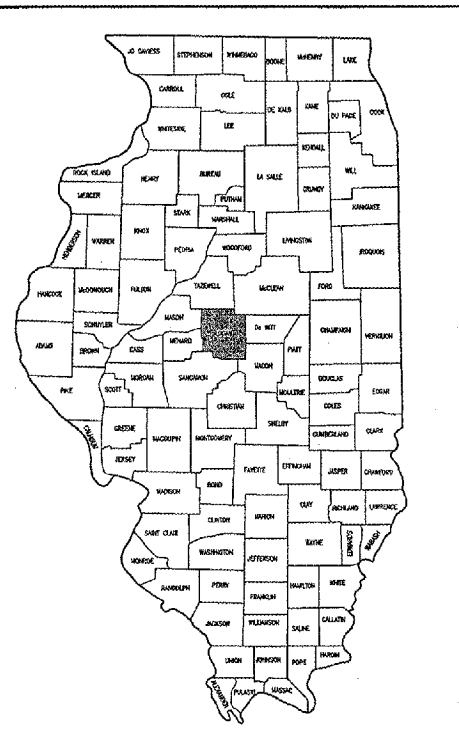


Hanson Professional Services Inc.
1025 South State Street
Springfield, Illinois 62703-2886
Offices Nationwide

DRAINAGE
IMPROVEMENTS

COVER SHEET

DEC 22, 2006 4:19 PM CAH
I:\AIRPORTS\LOGAN\813-06DEND\AIRPORT\SHEETS\R-0010V.DWG - COVER



LOCATION OF COUNTY

DATE	REVISION	BY
12/22/06	REVISED AS PER IDA REVIEW	CAH

SUMMARY OF QUANTITIES (BASE BID)

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITIES	AS BUILT QUANTITIES
AR150150	ENGINEER'S FIELD OFFICE	L.S.	1	
AR150540	HAUL ROUTE	L.S.	1	
AR151410	CLEARING	AC.	4.2	
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	18,288	
AR152442	OFFSITE BORROW EXCAVATION	C.Y.	3,471	
AR156510	SILT FENCE	L.F.	1,050	
AR156511	DITCH CHECK	EA.	2	
AR156520	INLET PROTECTION	EA.	4	
AR156530	TEMPORARY SEEDING	AC.	5.9	
AR156540	RIP RAP	S.Y.	200	
AR701554	54" RCP, CLASS IV	L.F.	1,470	
AR751415	INLET - SPECIAL	EA.	3	
AR751568	MANHOLE 8"	EA.	1	
AR752854	CONCRETE HEADWALL 54"	EA.	1	
AR752903	REMOVE HEADWALL	EA.	1	
AR800415	FIELD TILE CONNECTION	EA.	1	
AR800417	EROSION PROTECTION BLANKET	S.Y.	1,206	
AR901510	SEEDING	AC.	5.9	
AR908510	MULCHING	AC.	5.2	
AR908520	EXCELSIOR BLANKET	S.Y.	1,865	

SUMMARY OF QUANTITIES (ADD. ALT. NO. 1)

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITIES	AS BUILT QUANTITIES
AS150540	HAUL ROUTE	L.S.	1	
AS705411	POROUS BACKFILL NO. 1	C.Y.	443	
AS705524	4" PERFORATED UNDERDRAIN W/SOCK	L.F.	9,850	
AS705530	10" PERFORATED UNDERDRAIN W/SOCK	L.F.	1,626	
AS800416	SPECIAL GRADING	AC.	0.9	

INDEX TO SHEETS

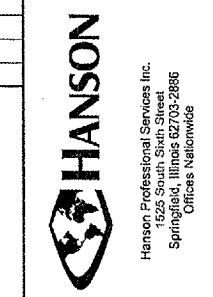
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QUANTITIES AND INDEX TO SHEETS
3	PROPOSED SAFETY PLAN
4	BASE BID SOUTHEAST QUADRANT
5	PROPOSED DRAINAGE PLAN
6	PROPOSED STORM WATER POLLUTION PREVENTION PLAN
7	PROPOSED STORM WATER POLLUTION PREVENTION DETAILS
8	PROPOSED PIPE PLAN AND PROFILE STA. 0+00 TO STA. 13+00
9	PROPOSED PIPE PLAN AND PROFILE STA. 13+00 TO STA. 21+60
10	PROPOSED DRAINAGE DETAILS
11	PROPOSED STAKING PLAN STA. 0+00 TO STA. 7+00
12	PROPOSED STAKING PLAN STA. 7+00 TO STA. 15+00
13	PROPOSED STAKING PLAN STA. 15+00 TO STA. 21+60
14	PROPOSED CROSS-SECTIONS FOR SOUTHEAST QUADRANT STA. 0+00 TO STA. 1+50
15	PROPOSED CROSS-SECTIONS FOR SOUTHEAST QUADRANT STA. 2+00 TO STA. 4+50
16	PROPOSED CROSS-SECTIONS FOR SOUTHEAST QUADRANT STA. 5+00 TO STA. 7+50
17	PROPOSED CROSS-SECTIONS FOR SOUTHEAST QUADRANT STA. 8+00 TO STA. 10+50
18	PROPOSED CROSS-SECTIONS FOR SOUTHEAST QUADRANT STA. 11+00 TO STA. 12+00
19	PROPOSED CROSS-SECTIONS FOR SOUTHEAST QUADRANT STA. 12+50 TO STA. 13+50
20	PROPOSED CROSS-SECTIONS FOR SOUTHEAST QUADRANT STA. 14+00 TO STA. 15+00
21	PROPOSED CROSS-SECTIONS FOR SOUTHEAST QUADRANT STA. 15+50 TO STA. 16+50
22	PROPOSED CROSS-SECTIONS FOR SOUTHEAST QUADRANT STA. 17+00 TO STA. 19+50
23	PROPOSED CROSS-SECTIONS FOR SOUTHEAST QUADRANT STA. 20+00 TO STA. 21+60.00
24	ADD. ALT. NO. 1 NORTHWEST QUADRANT
25	PROPOSED DRAINAGE PLAN
26	PROPOSED GEOMETRICS PLAN
27	PROPOSED PIPE PROFILES LINE A, LINE 1A & LINE 2A
28	PROPOSED PIPE PROFILES LINE 3A, LINE 4A, LINE 5A, LINE 6A & LINE 7A
29	PROPOSED PIPE PROFILES LINE B, LINE 1B & LINE 2B
30	PROPOSED PIPE PROFILES LINE 3B, LINE 4B, LINE 5B & LINE 6B
31	PROPOSED PIPE PROFILES LINE 7B & LINE 8B
32	PROPOSED PIPE PROFILES LINE 9B & LINE 10B
33	SPECIAL GRADING AREAS

LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS

A.I.P. PROJ.: 3-17-0062-B13

IL PROJ.: AAA-3545

FILED PROJECT NO. 813-0600ND_0800	DATE 07/13/06
DRAWN BY CAH	DATE 07/13/06
SCALE NOT TO SCALE	DATE 07/13/06
REVIEWED BY CAH	DATE 10/31/06



DRAINAGE IMPROVEMENTS

SUMMARY OF QUANTITIES AND INDEX TO SHEETS

SCOPE OF WORK

THIS PROJECT SHALL CONSIST OF:

BASE BID - INSTALLING A 54" PIPE IN SOUTHEAST QUADRANT. ASSOCIATED WORK SHALL CONSIST OF INSTALLING INLETS, FILLING EXISTING DITCH, REGRADING EXISTING DITCH, SEEDING AND MULCHING.

ADD. ALT. NO. 1 - INSTALLING UNDERDRAINS IN NORTHWEST QUADRANT AND GRADING SELECT AREAS.

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 30 FEET. THE TALLEST EQUIPMENT IS EXPECTED TO BE A TRACK BACKHOE.

HAUL ROUTE AND VEHICLE PARKING

THE CONTRACTOR WILL USE THE DESIGNATED HAUL ROUTES AND PARKING AREAS AS SHOWN ON THIS SHEET. THE PROPOSED PARKING AREAS WILL BE 200' X 200'. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE PROPOSED HAUL ROUTES AND PARKING AREAS THROUGHOUT THE COURSE OF THE PROJECT. ANY AREAS DAMAGED OUTSIDE OF THESE AREAS WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE. AT THE CONCLUSION OF THE PROJECT THE CONTRACTOR WILL PLOW, GRADE, FERTILIZE, SEED AND MULCH THE HAUL ROUTES AND PARKING AREAS AS NEEDED TO RESTORE IT TO ITS' ORIGINAL STATE.

CONTRACTOR RESPONSIBILITIES

THE CONTRACTOR'S EQUIPMENT PARKING AND STORAGE AREAS WILL BE AS SHOWN ON THIS SHEET. THE CONTRACTOR'S EMPLOYEES WILL PARK THEIR VEHICLES IN THESE AREAS. ONLY CONTRACTOR VEHICLES WILL BE ALLOWED OUTSIDE OF THESE AREAS.

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

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

NO TRENCHES OR HOLES WILL REMAIN OPEN OVERNIGHT.

RUNWAY 3-21 SHALL NOT BE CLOSED OVERNIGHT.

BARRICADES AND TRAFFIC CONES

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

LEGEND

- EXISTING IMPROVEMENTS
- EXISTING DITCH
- PROPOSED RCC PIPE (BASE BID)
- PROPOSED UNDERDRAINS INSTALLATION (ADD. ALT. NO. 1)
- EXISTING BUILDINGS
- PROPOSED HAUL ROUTE AND EQUIPMENT PARKING AREA
- PROPOSED BENCHMARK
- PROPOSED BARRICADES OR TRAFFIC CONES

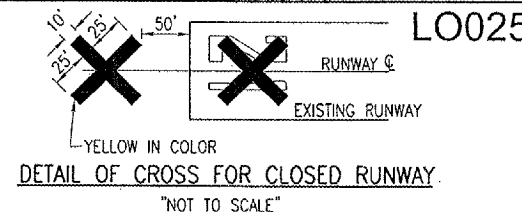
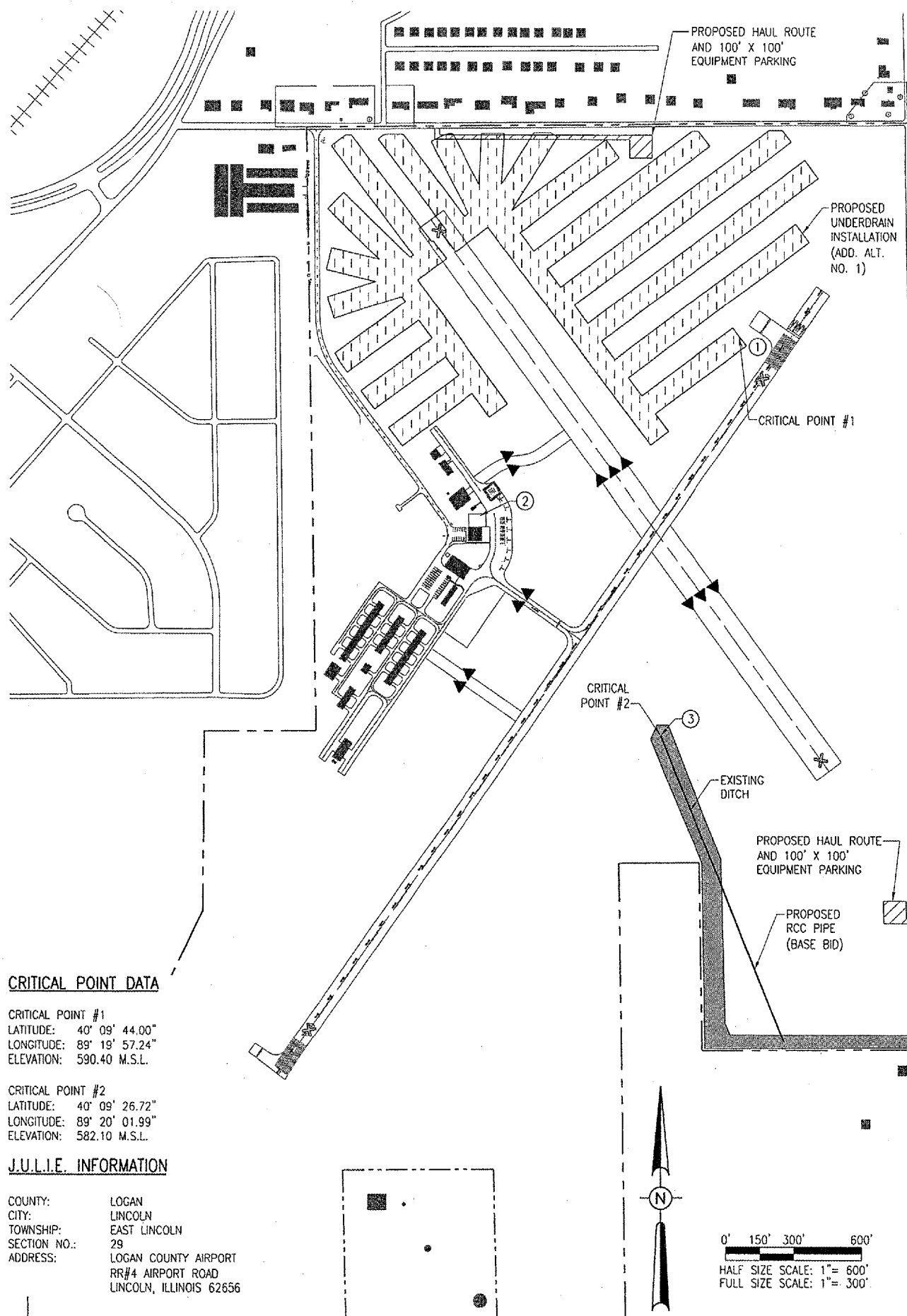
CRITICAL POINT DATA

CRITICAL POINT #1
 LATITUDE: 40° 09' 44.00"
 LONGITUDE: 89° 19' 57.24"
 ELEVATION: 590.40 M.S.L.

CRITICAL POINT #2
 LATITUDE: 40° 09' 26.72"
 LONGITUDE: 89° 20' 01.99"
 ELEVATION: 582.10 M.S.L.

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



NOTE:

COST OF CONSTRUCTING, PLACING, MAINTAINING AND REMOVING CROSSES WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THE CROSSES WILL BE YELLOW IN COLOR AND SHALL BE MADE OF A SUITABLE MATERIAL AS APPROVED BY THE AIRPORT MANAGER. THE CROSSES WILL BE PLACED OVER THE NUMERALS AND SECURED IN A MANNER APPROVED BY THE MANAGER. THE PROPOSED CROSSES WILL BE PLACED EACH DAY THE RUNWAY IS CLOSED AND REMOVED WHEN THE RUNWAY IS RE-OPENED. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PLACEMENT AND REMOVAL OF THE CROSSES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

PROPOSED SAFETY PLAN

GENERAL - THE LOGAN COUNTY AIRPORT IS COMPRISED OF TWO RUNWAYS. THE PROPOSED CONSTRUCTION WILL NECESSITATE CLOSING BOTH RUNWAYS. THE SOD STRIP WILL BE CLOSED AT THE START OF THE PROJECT AND WILL BE CLOSED FOR THE DURATION OF THE PROJECT. ANY TIME THE CONTRACTOR IS WORKING WITHIN 200' OF RUNWAY 3-21'S CENTERLINE THE RUNWAY WILL BE CLOSED. THE RUNWAY WILL BE CLOSED ONLY DURING THE CONSTRUCTION DAY. AT THE END OF EACH CONSTRUCTION DAY THE CONTRACTOR WILL SMOOTH GRADE ALL AREAS WITHIN THE SAFETY AREA TO THE SATISFACTION OF THE RESIDENT ENGINEER AND RE-OPEN THE RUNWAY. ALL WORK INCLUDED IN OPENING AND CLOSING THE RUNWAY WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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 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.

EROSION CONTROL

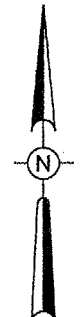
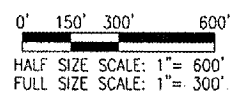
THIS PROJECT WILL DISTURB MORE THAN 1 ACRE OF LAND, THEREFORE A N.P.D.E.S. PERMIT WILL BE REQUIRED. THE CONTRACTOR MUST NOTIFY THE ENGINEER A MINIMUM OF 35 DAYS PRIOR TO STARTING WORK SO THE NPDES PERMIT CAN BE APPLIED FOR.

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	HEI #2 NGS STEEL ROD RWY. END 21 ±30' S. OF TURNAROUND	591.81
2	CB #4 CHISELED SQUARE IN COR. OF CONC. BASE OF LIGHT POLE	591.29
3	CB #6 CHISELED SQUARE IN TOP OF HEADWALL @ N. END OF DITCH	582.07




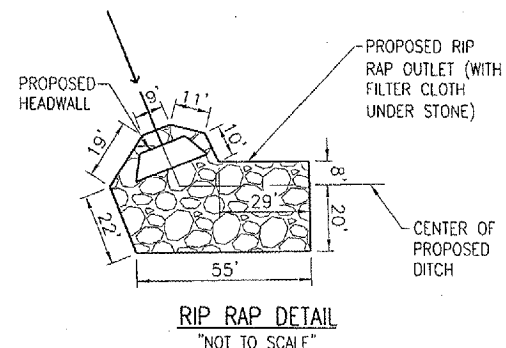
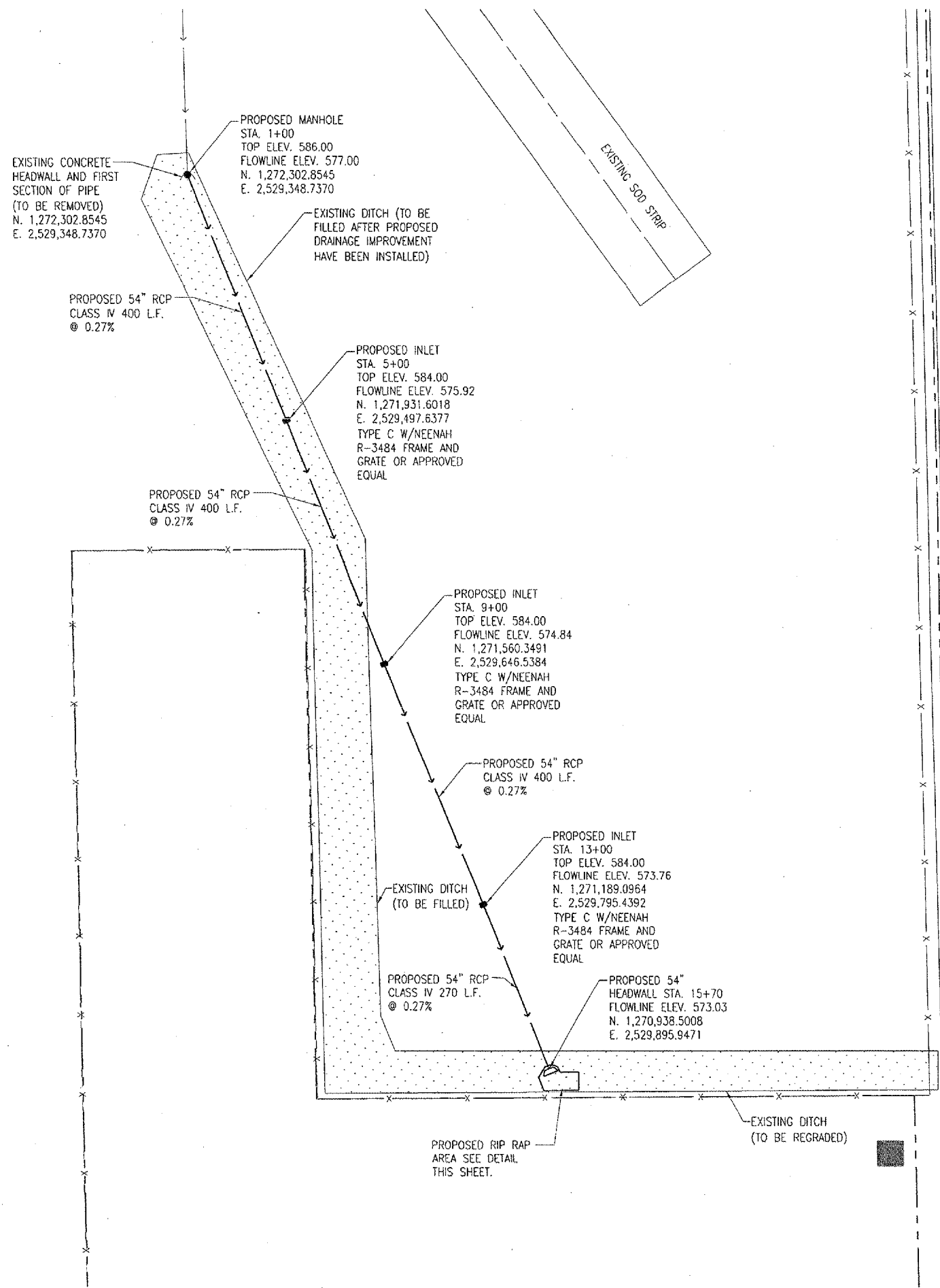
B13-06DCND-0800
 R-003SEY.DWG
 Scale: 1"= 300'
 Date: 07/13/06
 LAYOUT: CAH
 DRAWN: BAK
 REVIEWED: CAH
 10/31/06
 LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS
 A.I.P. PROJ.: 3-17-0082-813
 I.L. PROJ.: AA-3545
 HANSON PROFESSIONAL SERVICES INC.
 1526 South Sixth Street
 Springfield, Illinois 62703-2886
 Offices Nationwide
 DRAINAGE IMPROVEMENTS
 PROPOSED SAFETY PLAN
 3 of 33 sheets

BASE BID

SOUTHEAST QUADRANT DRAINAGE IMPROVEMENTS

AUG 21, 2006 4:53 PM CAH
C:\MYPORTS\LOGAN\813-06DCN\AIRPORT\1\SHEETS\R-003FLP.DWG - COVER

4 OF 33 SHEETS	DRAINAGE IMPROVEMENTS BASE BID SOUTHEAST QUADRANT	 Hanson Professional Services Inc. 1025 South State Street Springfield, Illinois 62703-2886 Offices Nationwide	REL. Project No. 813-06DCND.0800 Drawing: R-003FLP.DWG Scale: NOT TO SCALE Date: 07/13/06	LAYOUT CAH 07/13/06 DRAWN BAK 07/13/06 REVIEWED CAH 10/31/06	LOGAN COUNTY AIRPORT LINCOLN, ILLINOIS IL. PROJ.: AAA-3545 A.I.P. PROJ.: 3-17-0062-813	DATE REVISION BY



RIP RAP NOTES
THE PROPOSED RIP RAP WILL BE PLACED TO THE DIMENSIONS SHOWN ON THIS SHEET AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE PROPOSED RIP RAP WILL BE SIZE RR-4.

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

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

THE INSTALLATION OF THE RIP RAP WILL BE PAID FOR UNDER ITEM:
AR156540 RIP RAP _____ 200 S.Y.

NOTE:
THE FIRST SECTION OF PIPE ATTACHED TO THE EXISTING HEADWALL WILL BE REMOVED AS PART OF PAY ITEM AR752903 "REMOVE HEADWALL".

DRAINAGE QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR156540	RIP RAP	S.Y.	200
AR701554	54" RCP, CLASS IV	L.F.	1,470
AR751415	INLET - SPECIAL	EA.	3
AR751568	MANHOLE 8"	EA.	1
AR752654	CONCRETE HEADWALL 54"	EA.	1
AR752903	REMOVE HEADWALL	EA.	1

CLEARING NOTES
THE AREA DESIGNATED FOR CLEARING IS SHOWN ON THIS SHEET. THIS AREA HAS WEEDS, BRUSH AND SMALL TREES GROWING IN IT. THIS AREA IS LOCATED ON AIRPORT PROPERTY.

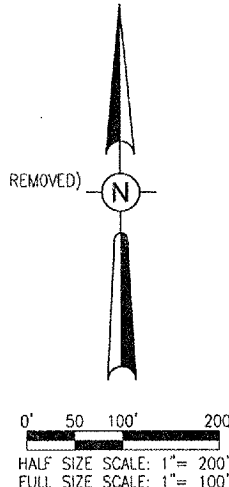
THE CONTRACTOR WILL MOW/CUT THE WEEDS, BRUSH AND TREES THAT ARE LOCATED WITHIN THIS AREA.

IF PERMITTED BY THE PERTINENT GOVERNING AUTHORITIES, THE CONTRACTOR MAY BURN AND BURY THE CLEARED MATERIAL ON AIRPORT PROPERTY. IF BURNING AND BURIAL IS NOT PERMITTED, THE CONTRACTOR MUST DISPOSE OF THE MATERIAL OFF THE AIRPORT PROPERTY. THE BURNING AND BURIAL LOCATION WILL BE APPROVED BY THE ENGINEER.

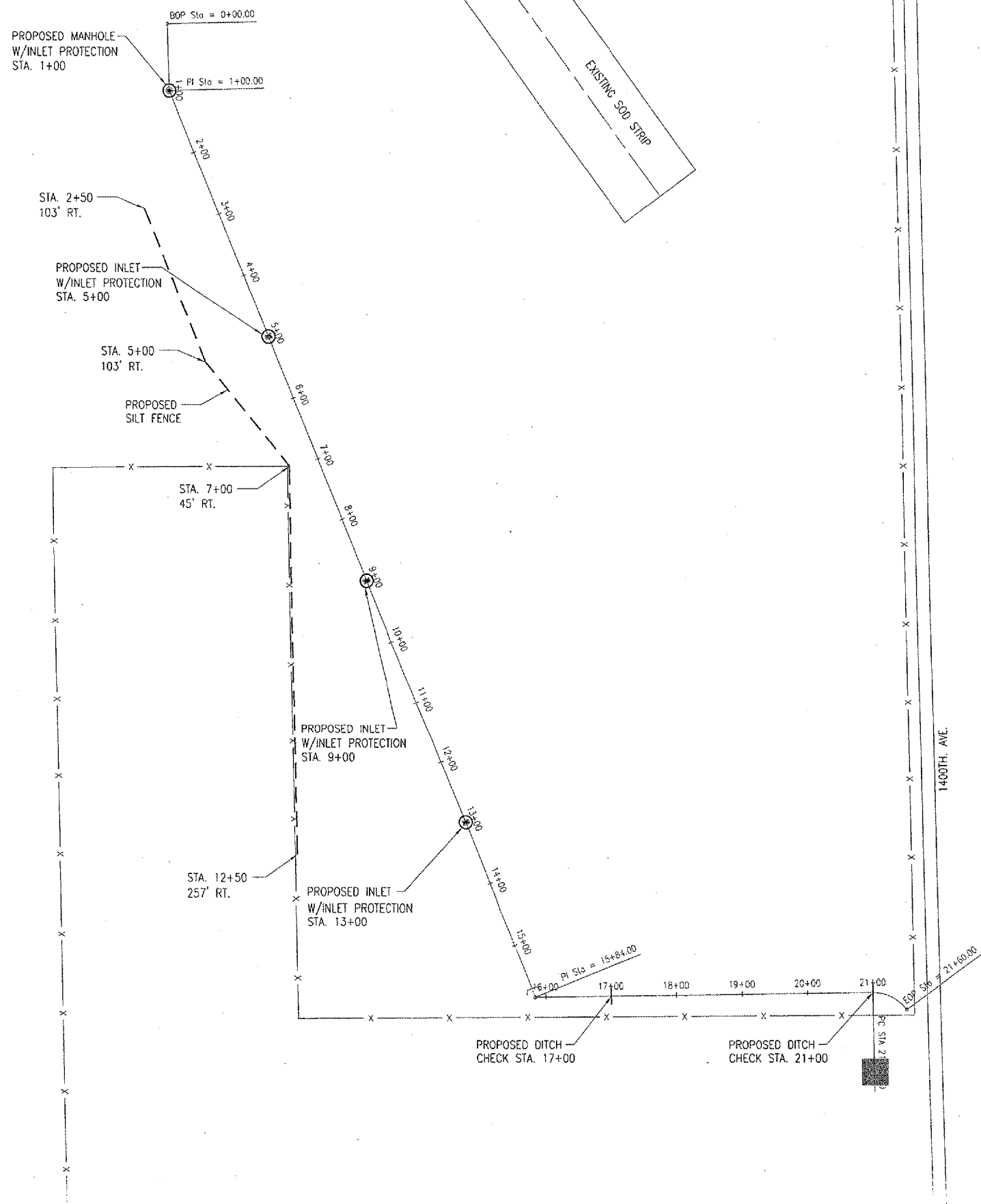
THERE WILL BE AT LEAST THREE FEET OF EARTH PLACED OVER THE BURIED MATERIAL. ALL BURIAL AREAS WILL BE GRADED.

CLEARING AND DISPOSAL OF THE DESIGNATED AREAS WILL BE PAID FOR UNDER ITEM:
AR151410 "CLEARING" _____ 4.2 ACRES

- LEGEND**
- EXISTING PROPERTY LINE
 - x- EXISTING FENCE LINE
 - >- EXISTING DRAINAGE PIPE
 - >- EXISTING HEADWALL (TO BE REMOVED)
 - [Stippled Area] PROPOSED CLEARING
 - >- PROPOSED DRAINAGE PIPE
 - PROPOSED MANHOLE
 - PROPOSED INLET
 - >- PROPOSED HEADWALL



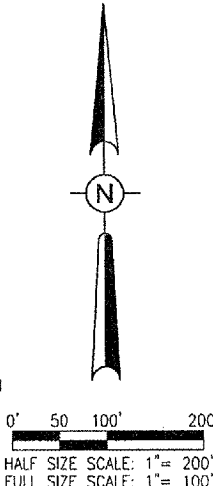
DATE	REVISION				
LOGAN COUNTY AIRPORT LINCOLN, ILLINOIS					
IL PROJ.: 44A-3545 A.I.P. PROJ.: 3-17-0062-B13					
LAYOUT	CAH	BAK	CAH	8/21/06	8/21/06
DRAWN	CAH	BAK	CAH	8/21/06	8/21/06
REVIEWED	CAH	BAK	CAH	8/21/06	10/31/06
 Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62705-2886 Offices Nationwide					
DRAINAGE IMPROVEMENTS					
PROPOSED DRAINAGE PLAN					
5					



EROSIONS CONTROL QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR156510	SILT FENCE	L.F.	1,050
AR156511	DITCH CHECK	EA.	2
AR156520	INLET PROTECTION	EA.	4

LEGEND

- x — EXISTING FENCE LINE
- PROPOSED MANHOLE
- * PROPOSED INLET
- (PROPOSED HEADWALL
- PROPOSED INLET PROTECTION
- PROPOSED DITCH CHECK
- - - PROPOSED SILT FENCE



DATE	REVISION	BY

LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS

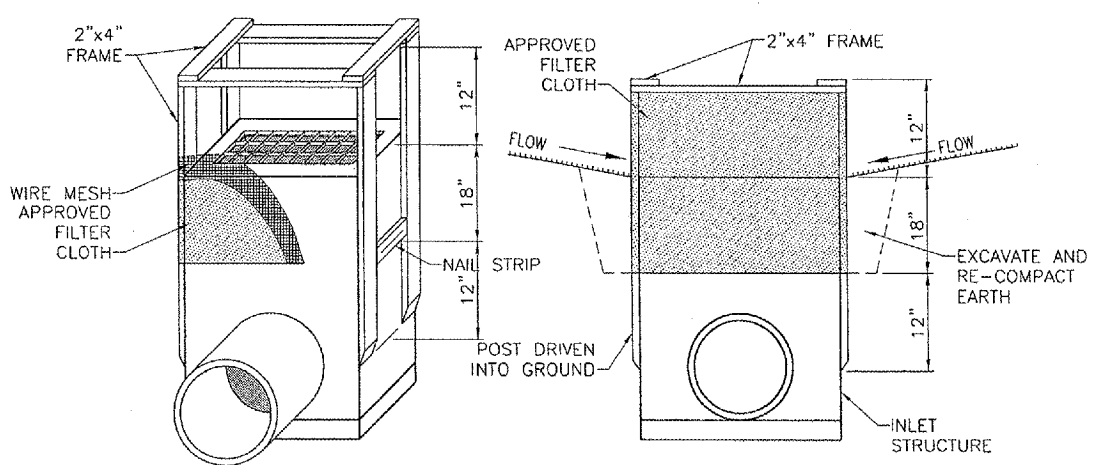
IL. PROJ.: AAA-3545 A.I.P. PROJ.: 3-17-0062-B13

I.E. Project No. 813-06060ND-0800 Filename: R-181 SWP.DWG Scale: 1" = 100' Date: 8/21/06		LAYOUT DRAWN: CAH REVIEWED: CAH	8/21/06 8/21/06 10/31/06
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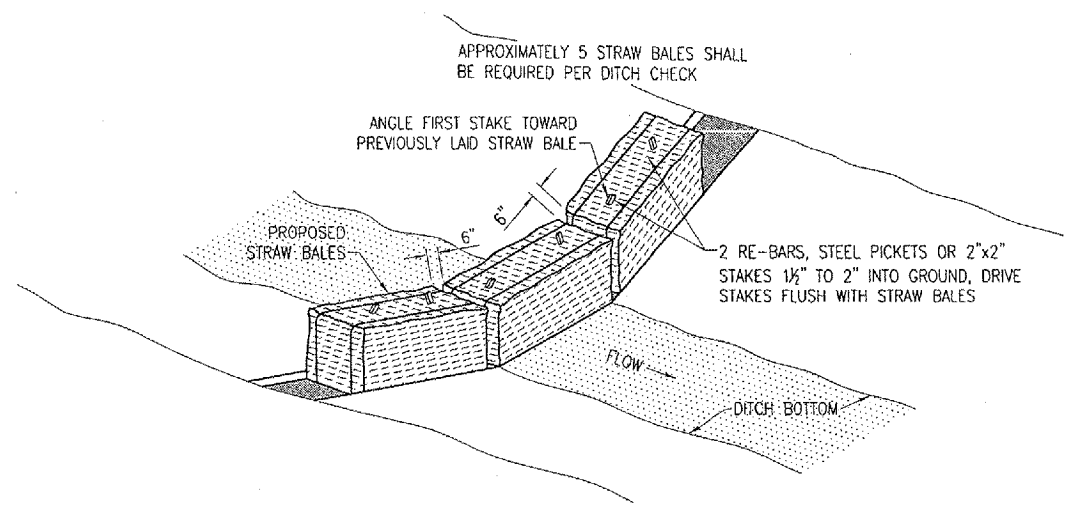
Hanson Professional Services Inc.
1528 South Sixth Street
Springfield, Illinois 62703-2886
Offices Nationwide

DRAINAGE IMPROVEMENTS

PROPOSED STORM WATER POLLUTION PREVENTION PLAN



INLET PROTECTION DETAIL
"NOT TO SCALE"



DITCH CHECK DETAIL
"NOT TO SCALE"

EROSION CONTROL NOTES

ALL PROPOSED EROSION CONTROL MEASURES SHALL BE COMPLETED AS DETAILED ON THE 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 WILL BE AS SHOWN ON THIS SHEET IN THE INLET PROTECTION DETAIL.

DITCH CHECKS WILL BE PLACED AT THE LOCATIONS SHOWN ON THE EROSION CONTROL PLAN AND IN ACCORDANCE WITH THE DETAIL ON THIS SHEET.

THE PROPOSED INLET PROTECTION WILL BE PLACED AT THE LOCATIONS SHOWN ON THE EROSION CONTROL PLAN.

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

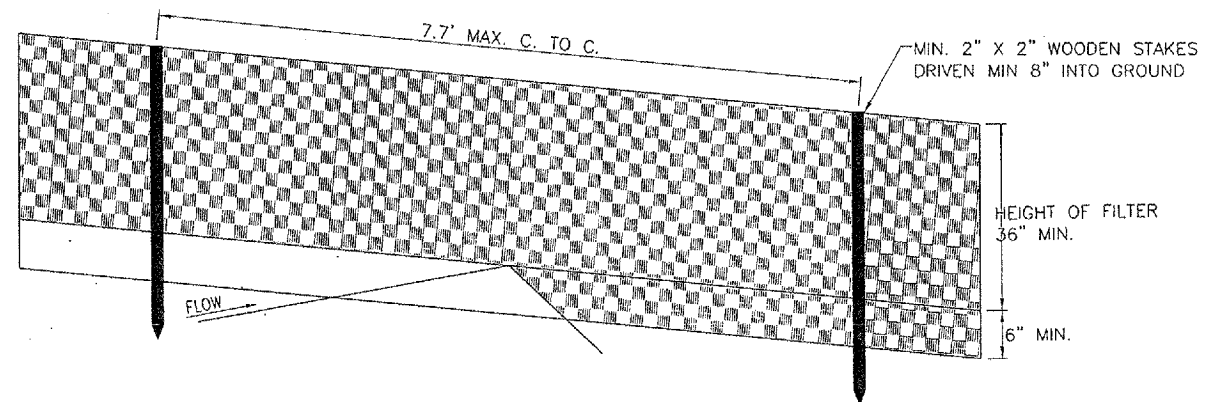
EROSION CONTROL FENCE SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM WATER DRAINAGE.

COST OF REMOVAL AND REPLACEMENT SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM AR156510 SILT FENCE.

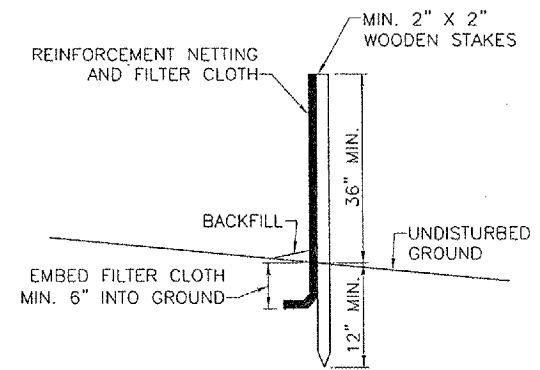
ALL ITEMS REQUIRED TO CONSTRUCT THE DITCH CHECKS WILL BE CONSIDERED INCIDENTAL TO THE DITCH CHECK. THESE ITEMS WILL BE PAID FOR UNDER ITEM AR156511 DITCH CHECK.

INLET PROTECTION IS TO INCLUDE ALL INCIDENTALS NECESSARY TO CONSTRUCT THESE ITEMS AND WILL BE PAID FOR UNDER ITEM: AR156520 INLET PROTECTION.

PROVIDE INLET PROTECTION FOR ALL PROPOSED INLETS SHOWN ON THE EROSION CONTROL PLAN.



PERSPECTIVE VIEW



SECTION

FILTER FENCE DETAIL
"NOT TO SCALE"

2/21/2006 4:46 PM CAH
 I:\REPORTS\LOGAN\813-08DGN\AIRPORT SHEETS\R-581SWP.DWG - SWPP DETAILS

DATE	REVISION	BY

LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS

ILL. PROJ.: AAA-3545 A.I.P. PROJ.: 3-17-0062-813

ILL. Project No. 813-060GND_0800	CAH	10/25/06
Electronic R-581SWP.DWG	BAK	10/25/06
Scale NOT TO SCALE	CAH	10/31/06
Date 10/25/06		
LAYOUT		
DRAWN		
REVIEWED		

HANSON

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1525 South South Street
Springfield, Illinois 62703-2866
Offices Nationwide

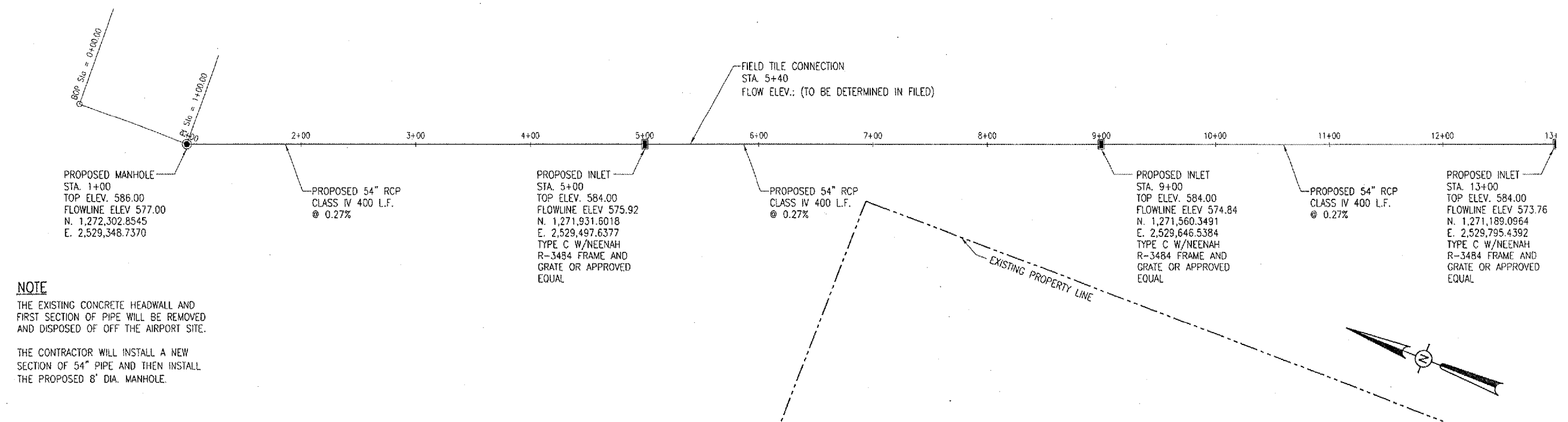
DRAINAGE IMPROVEMENTS

PROPOSED STORM WATER POLLUTION PREVENTION DETAILS

DATE	REVISION

LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS

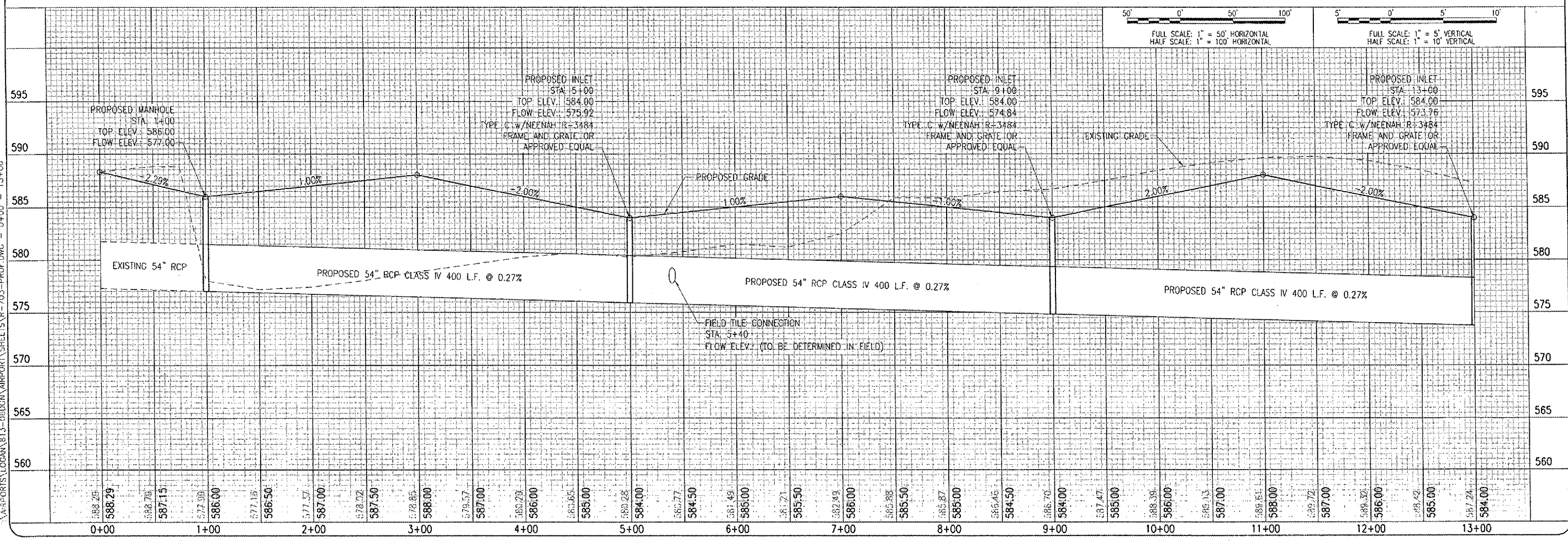
IL PROJ.: AA-3545 A.I.P. PROJ.: 3-17-0062-813



NOTE
THE EXISTING CONCRETE HEADWALL AND FIRST SECTION OF PIPE WILL BE REMOVED AND DISPOSED OF OFF THE AIRPORT SITE.

THE CONTRACTOR WILL INSTALL A NEW SECTION OF 54" PIPE AND THEN INSTALL THE PROPOSED 8' DIA. MANHOLE.

PLOT 22, 2006 7:43 AM CAH
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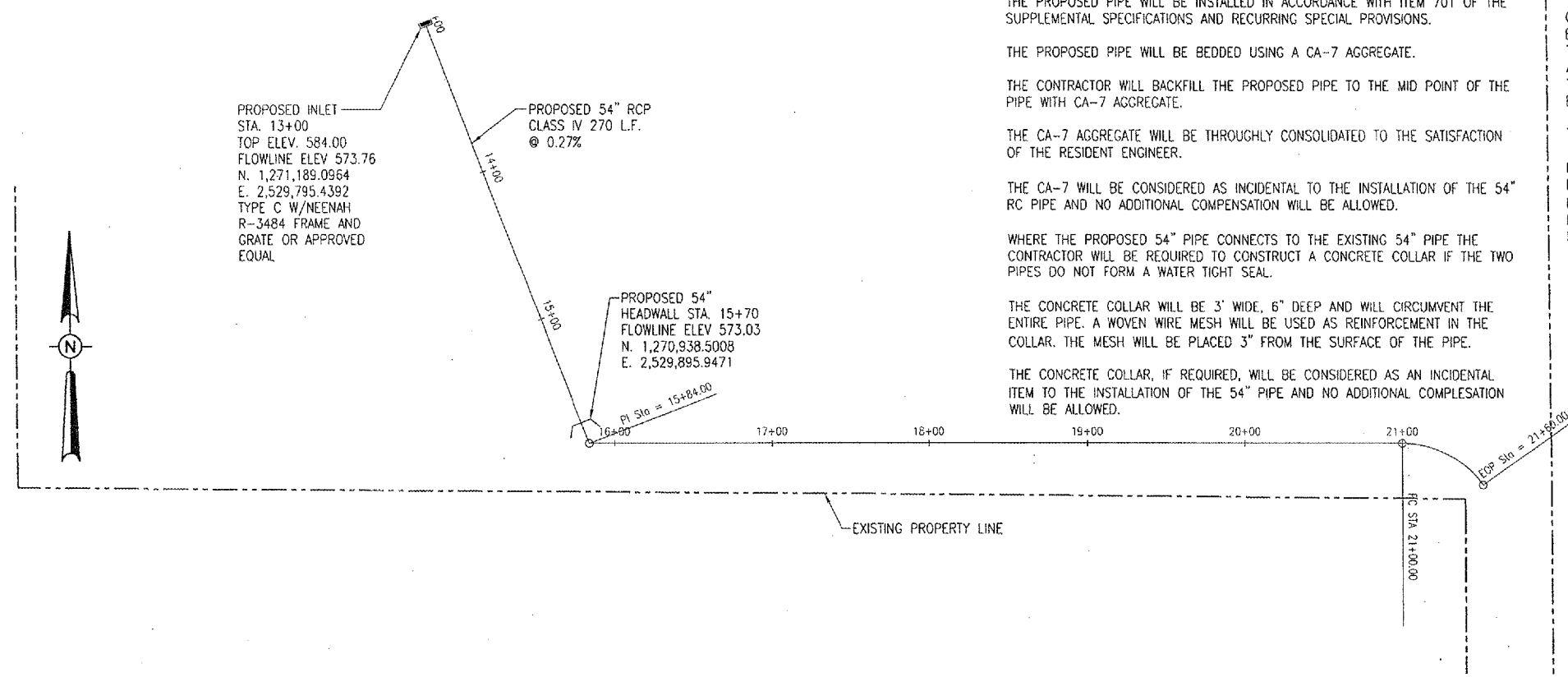


HEC Project No.	813-0600ND 0800
Drawn By	R-703-PROF.DWG
Scale	1" = 50' H./1" = 5' V.
Date	10/24/06
LAYOUT	JEO 10/24/06
DRAWN	JEO 10/24/06
REVIEWED	CAH 10/31/06



DRAINAGE IMPROVEMENTS
PROPOSED PIPE PLAN AND PROFILE
STA. 0+00 TO STA. 13+00

DEC 22, 2006 7:43 AM CAH
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54" RC PIPE NOTES

THE PROPOSED PIPE WILL BE 54" DIAMETER, CLASS IV REINFORCED CONCRETE CULVERT PIPE.

THE PROPOSED PIPE WILL BE INSTALLED IN ACCORDANCE WITH ITEM 701 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.

THE PROPOSED PIPE WILL BE BEDDED USING A CA-7 AGGREGATE.

THE CONTRACTOR WILL BACKFILL THE PROPOSED PIPE TO THE MID POINT OF THE PIPE WITH CA-7 AGGREGATE.

THE CA-7 AGGREGATE WILL BE THOROUGHLY CONSOLIDATED TO THE SATISFACTION OF THE RESIDENT ENGINEER.

THE CA-7 WILL BE CONSIDERED AS INCIDENTAL TO THE INSTALLATION OF THE 54" RC PIPE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

WHERE THE PROPOSED 54" PIPE CONNECTS TO THE EXISTING 54" PIPE THE CONTRACTOR WILL BE REQUIRED TO CONSTRUCT A CONCRETE COLLAR IF THE TWO PIPES DO NOT FORM A WATER TIGHT SEAL.

THE CONCRETE COLLAR WILL BE 3' WIDE, 6" DEEP AND WILL CIRCUMVENT THE ENTIRE PIPE. A WOVEN WIRE MESH WILL BE USED AS REINFORCEMENT IN THE COLLAR. THE MESH WILL BE PLACED 3" FROM THE SURFACE OF THE PIPE.

THE CONCRETE COLLAR, IF REQUIRED, WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE INSTALLATION OF THE 54" PIPE AND NO ADDITIONAL COMPLESATION WILL BE ALLOWED.

54" RC PIPE NOTES CONTINUED

RUBBER GASKET JOINT SEALS OR BITUMINOUS MASTIC COMPOUND IS PERMITTED. IF BITUMINOUS MASTIC COMPOUND IS USED, IT WILL MEET THE FOLLOWING REQUIREMENTS:

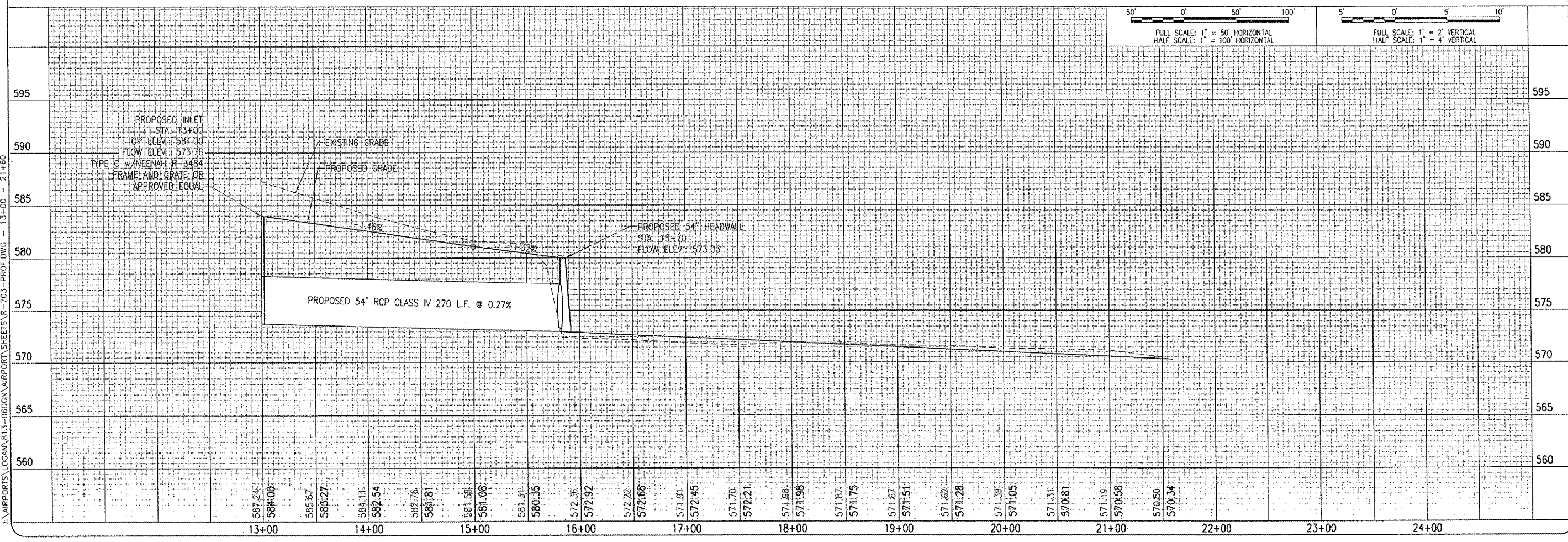
COLD-APPLIED BITUMINOUS SEALER FOR CULVERT AND SEWER PIPE JOINTS SHALL BE BITUMINOUS MATERIAL OF SUCH CONSISTENCY THAT IT CAN BE APPLIED TO THE JOINTS WITH A TROWEL WHEN THE TEMPERATURE OF THE AIR IS BETWEEN 20° AND 100°F. THE BITUMINOUS MATERIAL SHALL ADHERE TO THE CONCRETE SO AS TO MAKE A WATER-TIGHT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

THE BITUMINOUS SEALER SHALL MEET THE FOLLOWING SPECIFIC REQUIREMENTS:

PENETRATION, 77°F., 150 G., 5 SEC., WITH CONE _____ 175-300
 LOSS OF 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

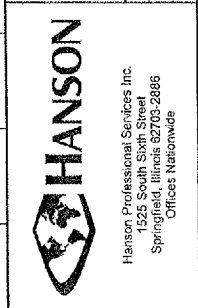
THE BITUMINOUS SEALER SHALL BE DELIVERED TO THE PROJECT IN SUITABLE CONTAINERS FOR HANDLING, AND SHALL BE SEALED OR OTHERWISE PROTECTED FROM CONTAMINATION. THE CONTAINER SHALL SHOW THE BRAND NAME, NET VOLUME, OR WEIGHT AND THE REQUIREMENTS FOR APPLICATION.

L0025



BY	
REVISION	
DATE	
LOGAN COUNTY AIRPORT LINCOLN, ILLINOIS	
A.L.P. PROJ.: 3-17-0062-813	
I.L. PROJ.: AAA-3545	

HEB Project No. 813-060GND.0800	
File Name R-703-PROF.DWG	
Scale 1" = 50' H./1" = 5' V.	
Date 10/24/06	
LAYOUT JEO 10/24/06	
DRAWN JEO 10/24/06	
REVIEWED CAH 10/31/06	



DRAINAGE IMPROVEMENTS

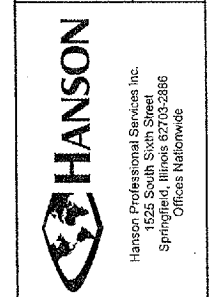
PROPOSED
 PIPE PLAN AND PROFILE
 STA. 13+00 TO STA. 21+60

BY	
REVISION	
DATE	

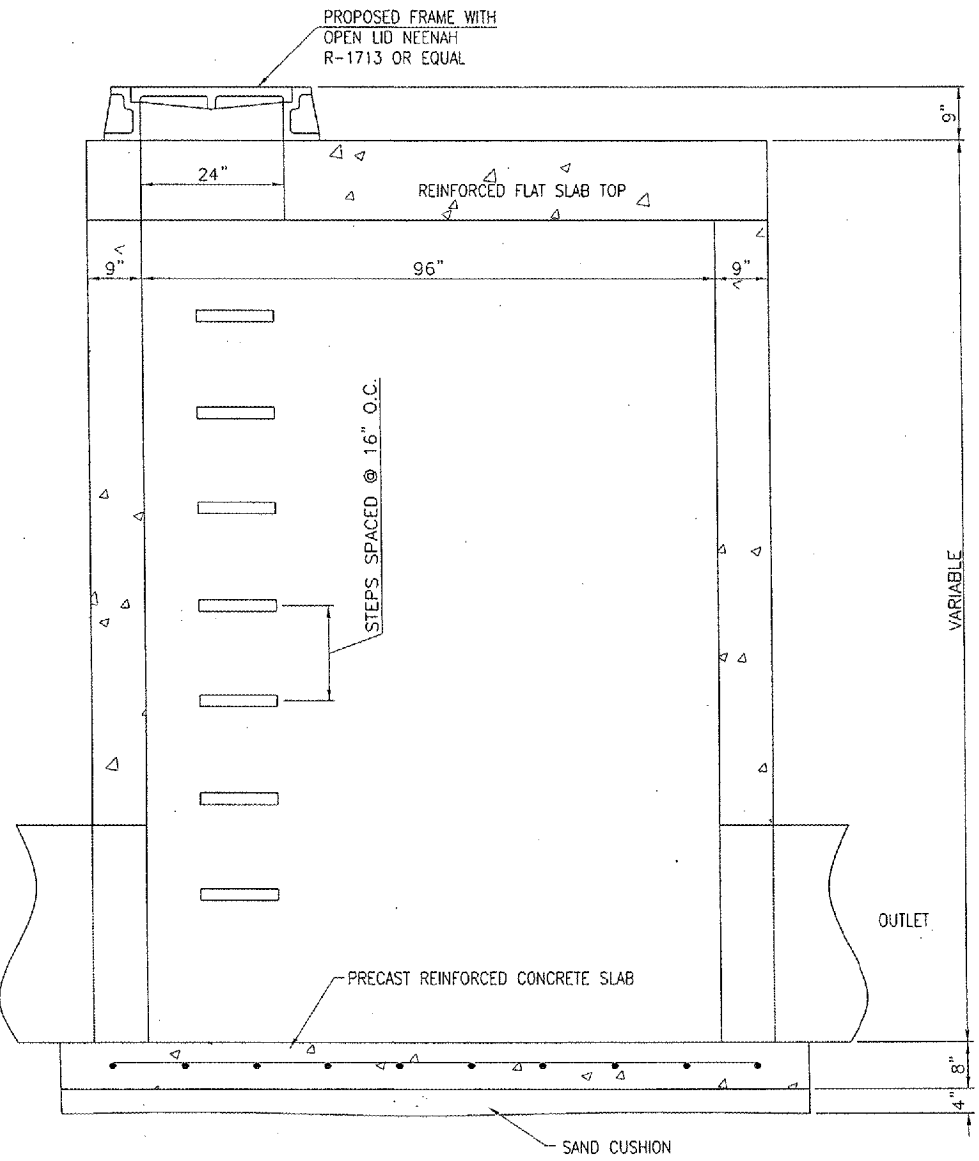
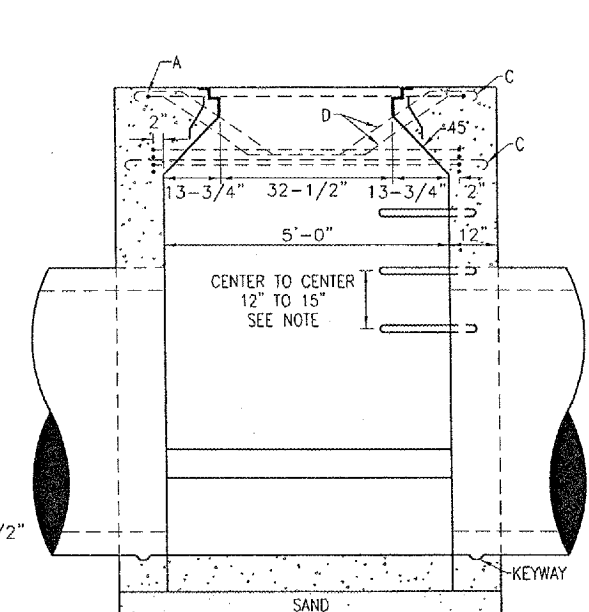
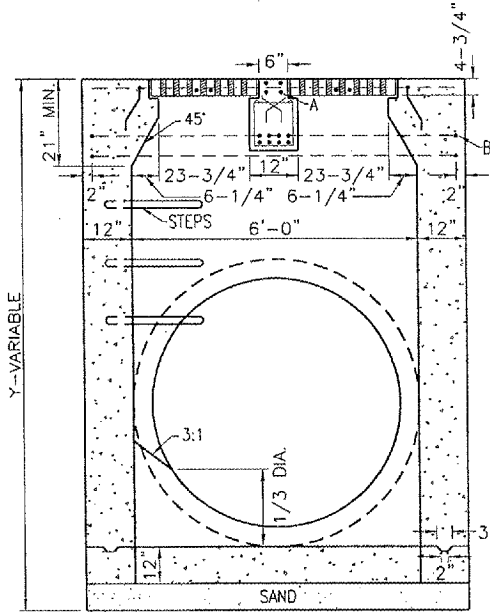
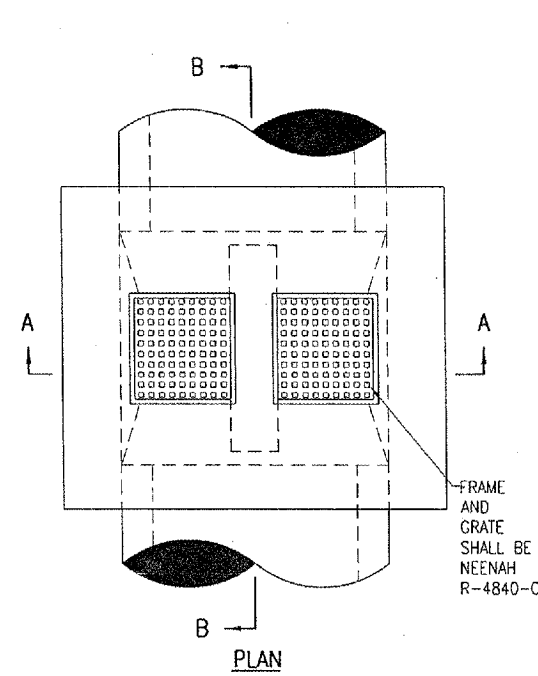
LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS

ILL. PROJ.: AAA-3545 A.I.P. PROJ.: 3-17-0062-813

PROJECT NO.	813-062QND-0800
DESIGNER	R-531DRN.DWG
SCALE	NOT TO SCALE
DATE	8/18/06
LAYOUT	CAH 8/18/06
DRAWN	BAK 8/18/06
REVIEWED	CAH 10/31/06

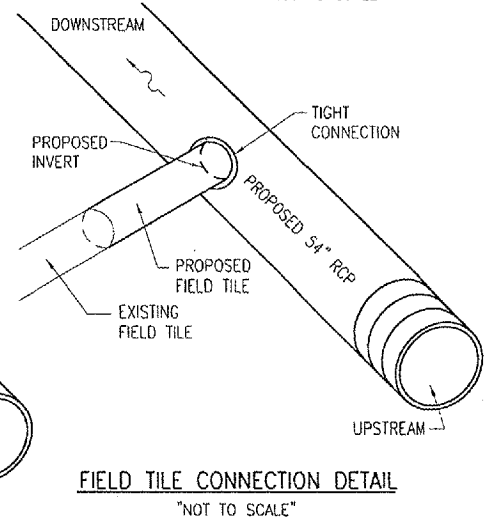
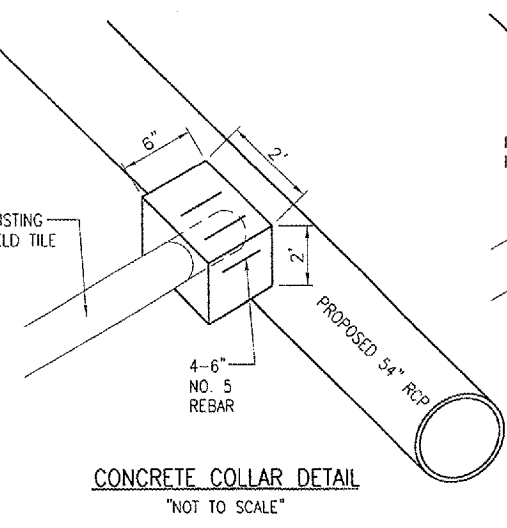
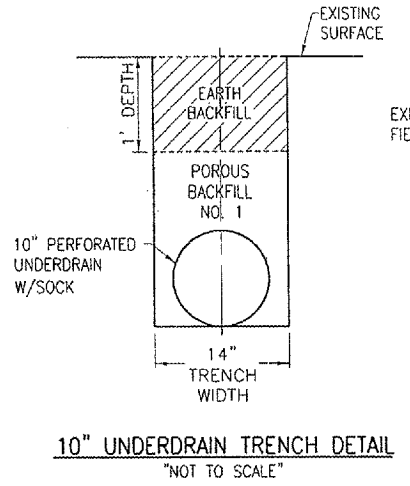
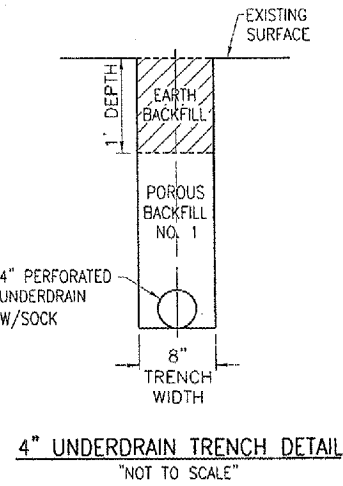
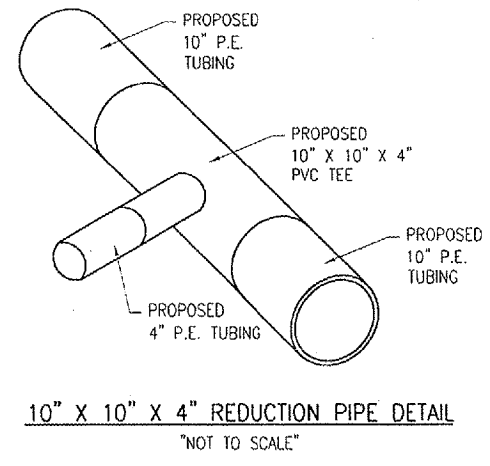
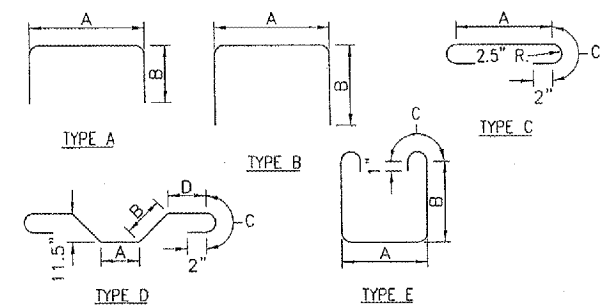


PROPOSED DRAINAGE IMPROVEMENTS DETAILS



TYPE	QUANTITY PER INLET	DIMENSIONS				SIZE	APPROX. WT. OF BARS IN INLET	TOTAL WEIGHT
		A	B	B	B			
A	2	5'-4"	3'-0"			#5	23.7	
B	4	5'-4"	4'-8"			#5	61.3	
C	4	6'-3"		10"		#5	33.1	
D	2	24"	16"	8"	13.5"	#4	11.0	
D	2	32"	16"	8"	9.5"	#4	11.0	
E	8	8"	11"	4"		#3	9.5	

D INSIDE DIA. OF PIPE	CU. YARDS TO SUBTRACT FOR 12" WALL	INVERT FORM CU. YDS.	BOTTOM SIDES AND TOP	
			Y	TOTAL CU. YDS.
12"	.054		5'	6.83
15"	.077		6'	7.79
18"	.108		7'	8.75
21"	.142		8'	9.72
24"	.182	1.1	9'	10.68
30"	.262	1.2	10'	11.64
36"	.391	1.25	11'	12.06
42"	.526	1.3	12'	13.57
48"	.656	1.34	13'	14.53
54"	.854	1.36	14'	15.49
60"	1.049	1.36	15'	16.46



FIELD TILE CONNECTION NOTE
THE CONNECTION OF THE EXISTING FIELD TILE INTO THE PROPOSED 54" PIPE (RCP) WILL BE CONSTRUCTED IN ACCORDANCE WITH ITEM 705 "PIPE UNDERDRAINS FOR AIRPORTS" INCLUDED IN THE SUPPLEMENTAL AND RECURRING SPECIAL PROVISIONS DATED JULY 1, 2004 AND THE DETAILS ON THIS SHEET.

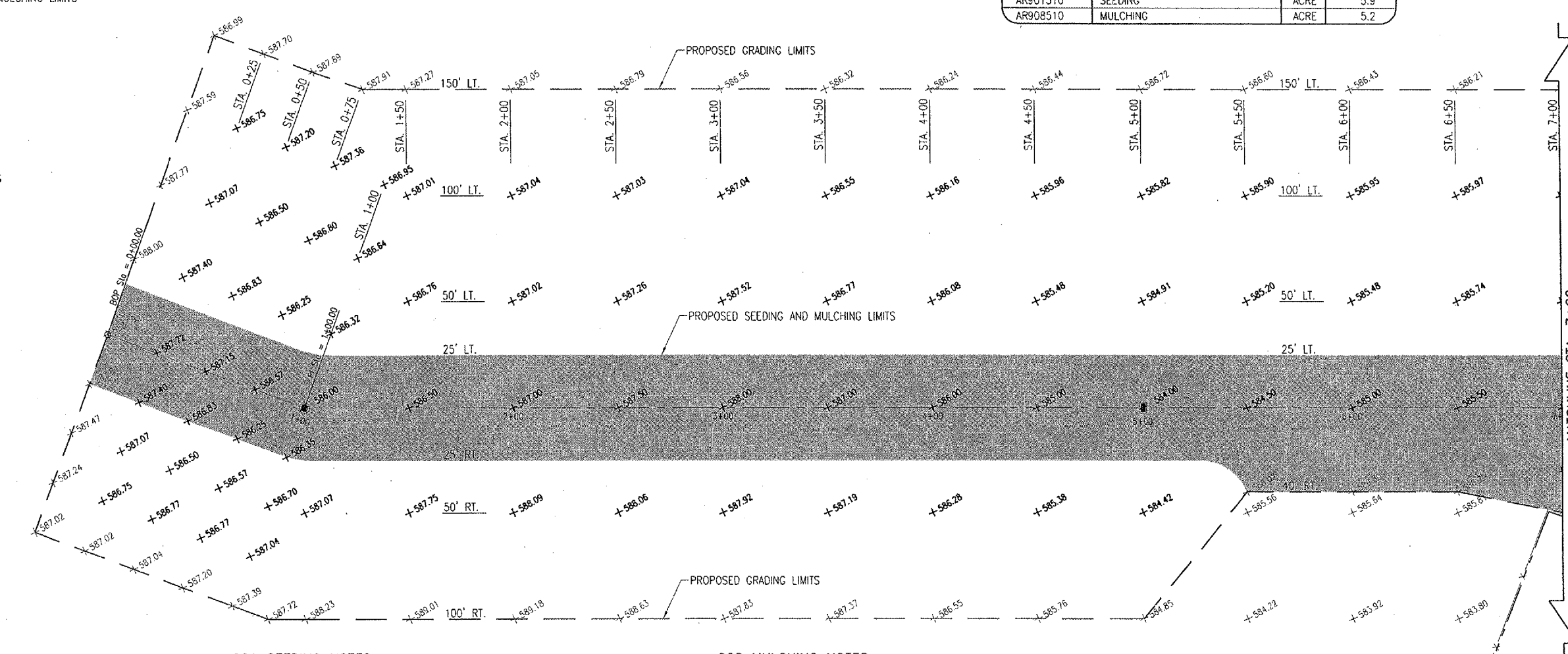
THE CONTRACTOR WILL PROVIDE SUFFICIENT PIPE, SIZED TO MATCH THE EXISTING FIELD TILE, TO EXTEND FROM THE END OF THE EXISTING FIELD TILE TO THE PROPOSED 54" PIPE. THE CONTRACTOR WILL MAKE A HOLE IN THE PROPOSED PIPE AND INSERT THE PROPOSED FIELD TILE PIPE INTO THE HOLE. THE CONTRACTOR WILL SEAL THE FIELD TILE INTO THE HOLE AND THEN POUR A CONCRETE COLLAR AROUND THE CONNECTION AS SHOWN ON THIS SHEET.

THE CONNECTION OF THE FIELD TILE TO THE PIPE WILL BE PAID FOR UNDER ITEM: AR800415 "FIELD TILE CONNECTION" PER EACH.

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SUMMARY OF QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR901510	SEEDING	ACRE	5.9
AR908510	MULCHING	ACRE	5.2

- LEGEND**
- PROPOSED SEEDING AND MULCHING LIMITS
 - EXISTING PROPERTY LINE
 - x- EXISTING FENCE LINE
 - x--- EXISTING GRADE
 - x--- PROPOSED GRADE
 - PROPOSED INLET
 - PROPOSED MANHOLE
 - PROPOSED GRADING LIMITS



152410 UNCLASSIFIED EXCAVATION

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

THE EARTH SUBGRADE WILL BE CUT TO THE SPECIFIED ELEVATIONS AS SHOWN ON THE STAKING PLAN.

THE COMPACTION CONTROL TESTS TO BE USED FOR ALL EMBANKMENTS AND EXCAVATION SHALL BE FAA COMPACTION CONTROL TEST T-611 FOR AIRCRAFT WEIGHING LESS THAN 60,000 POUNDS (90% STANDARD PROCTOR).

UNCLASSIFIED EXCAVATION. ALL MATERIAL EXCAVATED WITHIN THE PROPOSED GRADING LIMITS AS SHOWN ON THE PLANS SHALL BE DEFINED AS "UNCLASSIFIED EXCAVATION."

BORROW EXCAVATION. ALL MATERIAL OBTAINED FROM THE "OFF-SITE BORROW AREA" SHALL BE DEFINED AS "BORROW EXCAVATION."

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:
AR152410 "UNCLASSIFIED EXCAVATION" - 18,288 C.Y.

OFFSITE BORROW EXCAVATION

THE EXISTING DRAINAGE DITCH WILL BE REGRADED AND FILLED TO THE DISTANCES AND ELEVATIONS SHOWN ON THE STAKING PLANS AND THE CROSS-SECTIONS. THE MATERIAL USED TO REGRADE AND FILL THE EXISTING DRAINAGE WILL BE PAID FOR UNDER UNCLASSIFIED EXCAVATION. ANY EXTRA MATERIAL NEEDED WILL BE OBTAINED FROM OFF-SITE.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:
AR152442 "OFFSITE BORROW EXCAVATION" - 3,471 C.Y.

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 SEEDING AND MULCHING LIMITS WILL BE SEEDED IN ACCORDANCE WITH THE ABOVE NOTED SPECIFICATION. ALL AREAS OUTSIDE OF THE DESIGNATED SEEDING AND MULCHING LIMITS AND INSIDE THE PROPOSED GRADING LIMITS WILL BE LIMED AND FERTILIZED BUT NOT SEEDED.

ALL MATERIALS AND/OR DEBRIS RESULTING FROM THE SEEDING OPERATIONS WILL BE REMOVED FROM THE MISCELLANEOUS STRUCTURES.

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 ___/___/___.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:
AR901510 "SEEDING" - 5.9 ACRES

EXCELSIOR BLANKET NOTES

AN EROSION CONTROL MATERIAL (EXCELSIOR BLANKET) WILL BE INSTALLED AT THE LOCATIONS SHOWN ON THIS SHEET AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM
AR908520 "EXCELSIOR BLANKET" - 1,865 S.Y.

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 ___/___/___.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:
AR908510 "MULCHING" - 5.2 ACRES

EROSION PROTECTION BLANKET NOTES

AN EROSION PROTECTION BLANKET WILL BE INSTALLED AT THE LOCATIONS SHOWN ON THIS SHEET AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM
AR800417 "EROSION PROTECTION BLANKET" - 1,206 S.Y.

TEMPORARY SEEDING DATA

ALL AREAS INSIDE THE SEEDING AND MULCHING LIMITS THAT ARE LEFT UNTOUCHED FOR 21 DAYS WILL HAVE THOSE AREAS TEMPORARILY SEEDED. ALL AREAS WITHIN THESE LIMITS, SHALL BE LIMED, FERTILIZED AND SEEDED IN ACCORDANCE WITH THE FOLLOWING FORMULA AND RATES OF APPLICATION.

SEEDING (MINIMUM POUNDS OF PURE LIVE SEED PER ACRE)
 PERENNIAL RYEGRASS _____ 50
 SPRING OATS* _____ 64
 *OTHER SEEDS MAY BE USED IF APPROVED BY THE ENGINEER.
 AREA TO BE SEEDED _____ 5.9 ACRES
 DATE SEEDING COMPLETED _____

REVISION	DATE	BY

LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS

A.I.P. PROJ.: AAA-3545
I.L. PROJ.: 3-17-0062-813

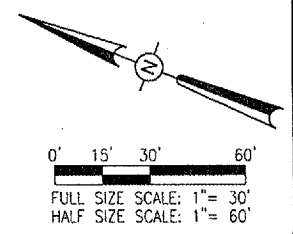
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Revision R-191 STK-SOUTH.DWG	8/21/06
Scale 1" = 30'	10/31/06
Date 8/21/06	
LAYOUT CAH	
DRAWN CCC	
REVIEWED CAH	

Hanson Professional Services Inc.
1625 South Sixth Street
Springfield, Illinois 62703-2888
Office Nationwide

DRAINAGE IMPROVEMENTS

PROPOSED STAKING PLAN

STA. 0+00 TO STA. 7+00

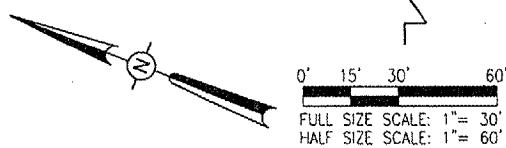
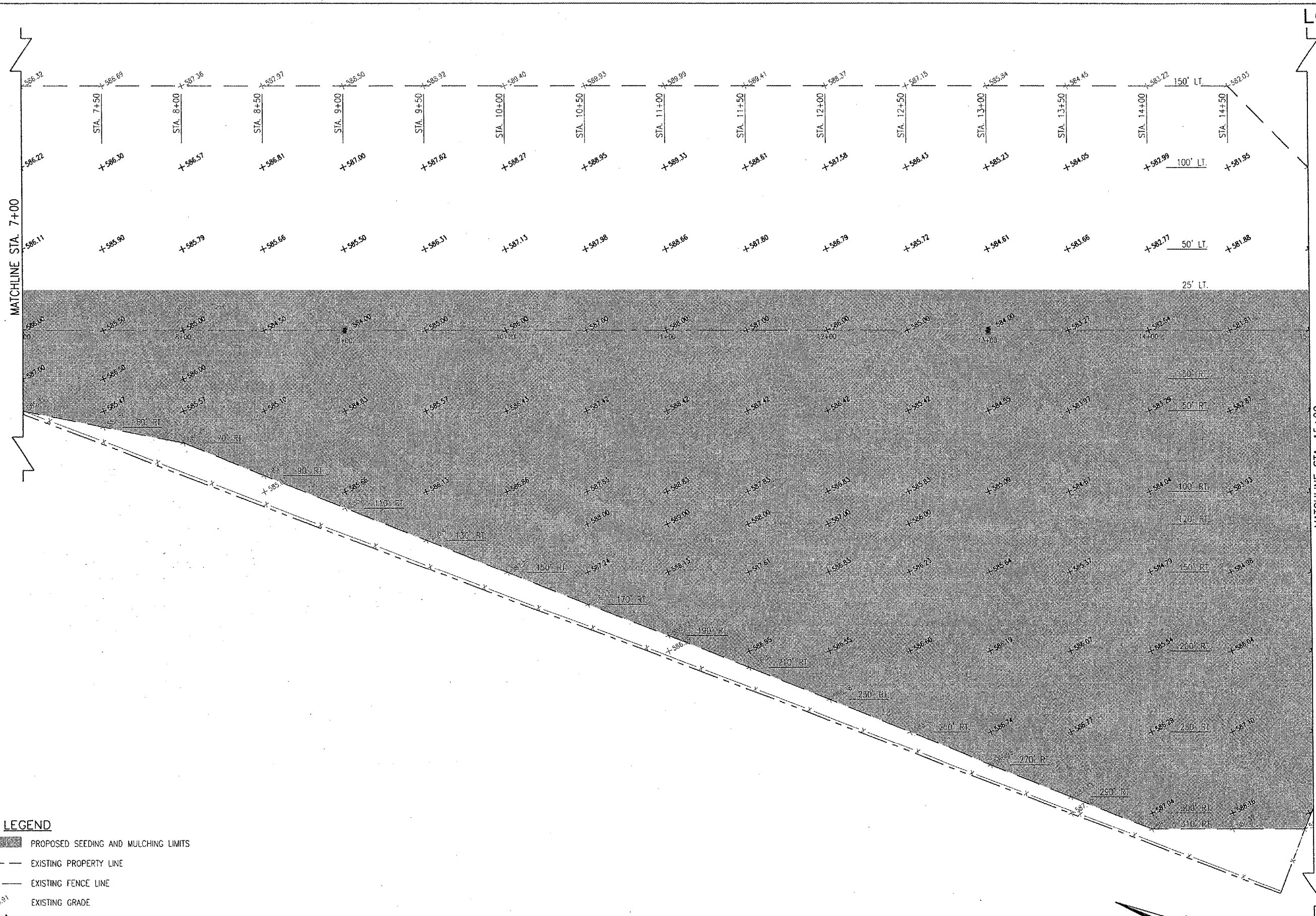


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 8/22/2006 7:48 AM CAH

LEGEND

- PROPOSED SEEDING AND MULCHING LIMITS
- EXISTING PROPERTY LINE
- EXISTING FENCE LINE
- EXISTING GRADE
- PROPOSED GRADE
- PROPOSED INLET
- PROPOSED GRADING LIMITS



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DATE	REVISION	BY

LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS

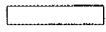

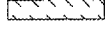
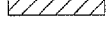

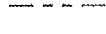
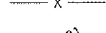
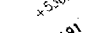




I.L. PROJ.: AA-3545 A.I.P. PROJ.: 3-17-0062-B13

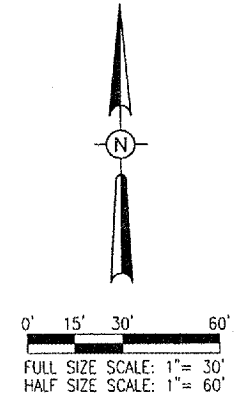
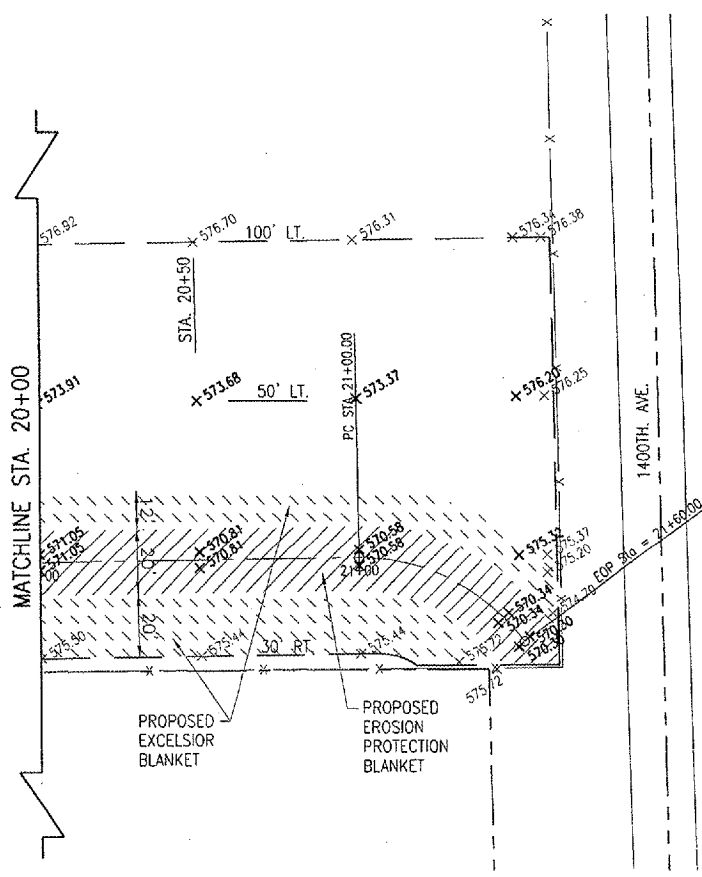
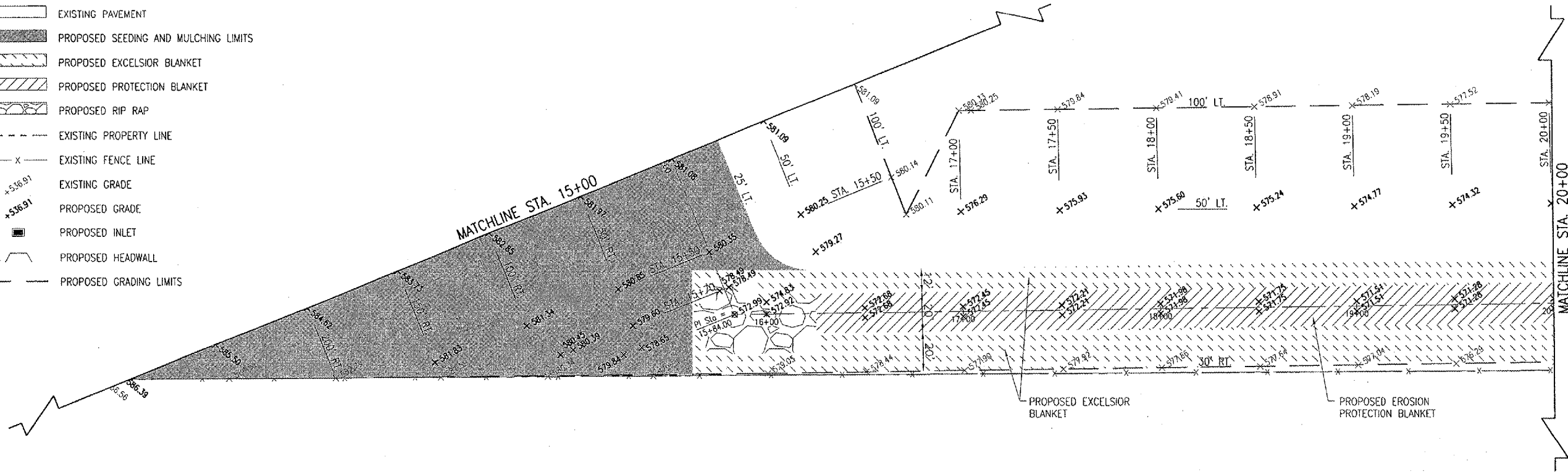
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LAYOUT	CAH 8/21/06
DRAWN	CCC 8/21/06
REVIEWED	CAH 10/31/06

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

DRAINAGE IMPROVEMENTS
PROPOSED STAKING PLAN
 STA. 7+00 TO STA. 15+00

LEGEND

-  EXISTING PAVEMENT
-  PROPOSED SEEDING AND MULCHING LIMITS
-  PROPOSED EXCELSIOR BLANKET
-  PROPOSED PROTECTION BLANKET
-  PROPOSED RIP RAP
-  EXISTING PROPERTY LINE
-  EXISTING FENCE LINE
-  EXISTING GRADE
-  PROPOSED GRADE
-  PROPOSED INLET
-  PROPOSED HEADWALL
-  PROPOSED GRADING LIMITS



DATE	REVISION	BY

LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS

IL PROJ.: AAA-3545 A.I.P. PROJ.: 3-17-0062-B13

I.E. Project No. 813-06DGDND_0800 Drawing R-191 STK-SOUTH.DWG Scale 1" = 30' Date 8/21/06	
LAYOUT	CAH 8/21/06
DRAWN	CCC 8/21/06
REVIEWED	CAH 10/31/06

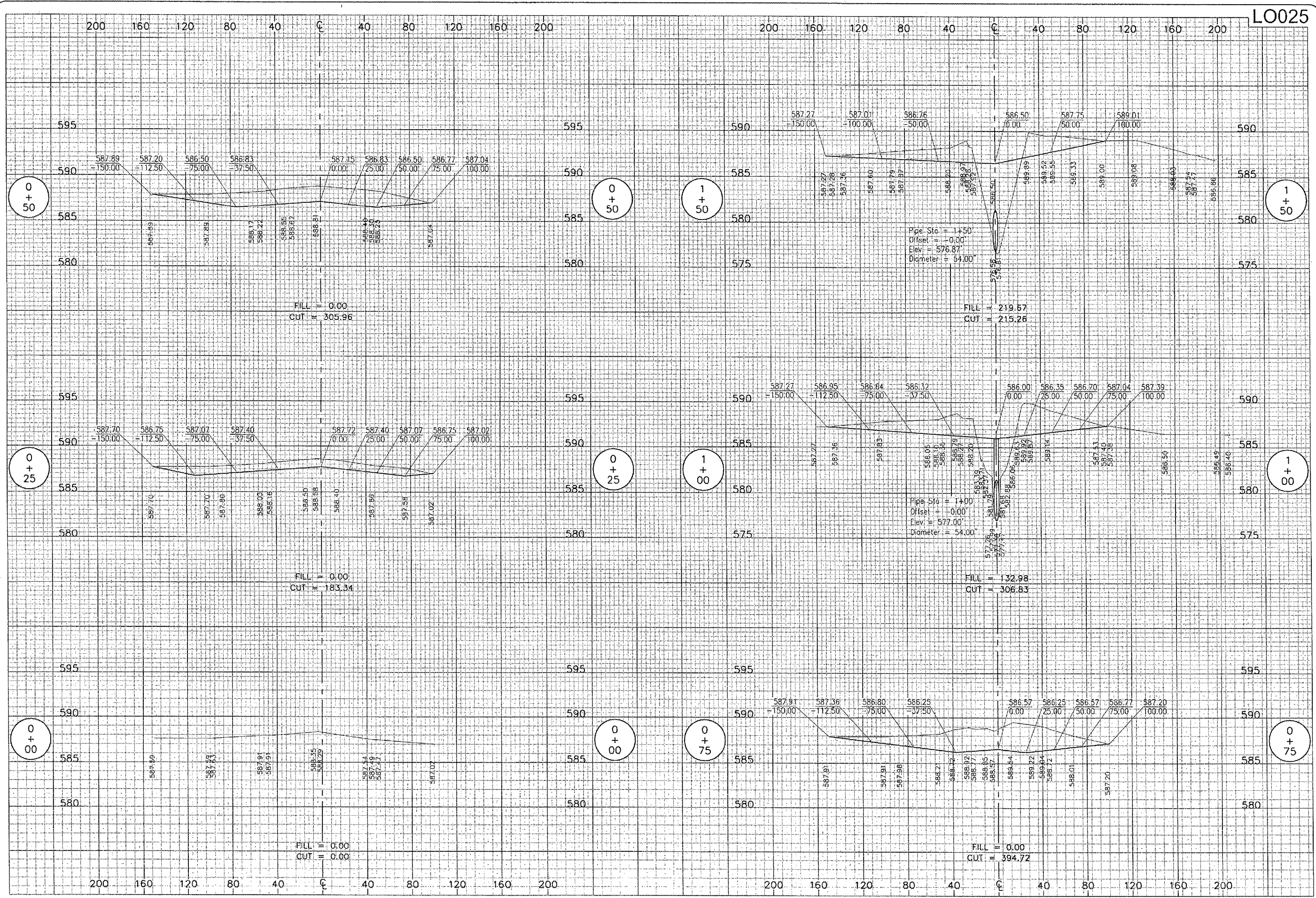


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DRAINAGE IMPROVEMENTS

PROPOSED STAKING PLAN

STA. 15+00 TO STA. 21+60

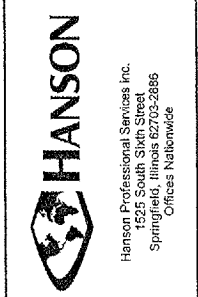


DATE	REVISION

LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS

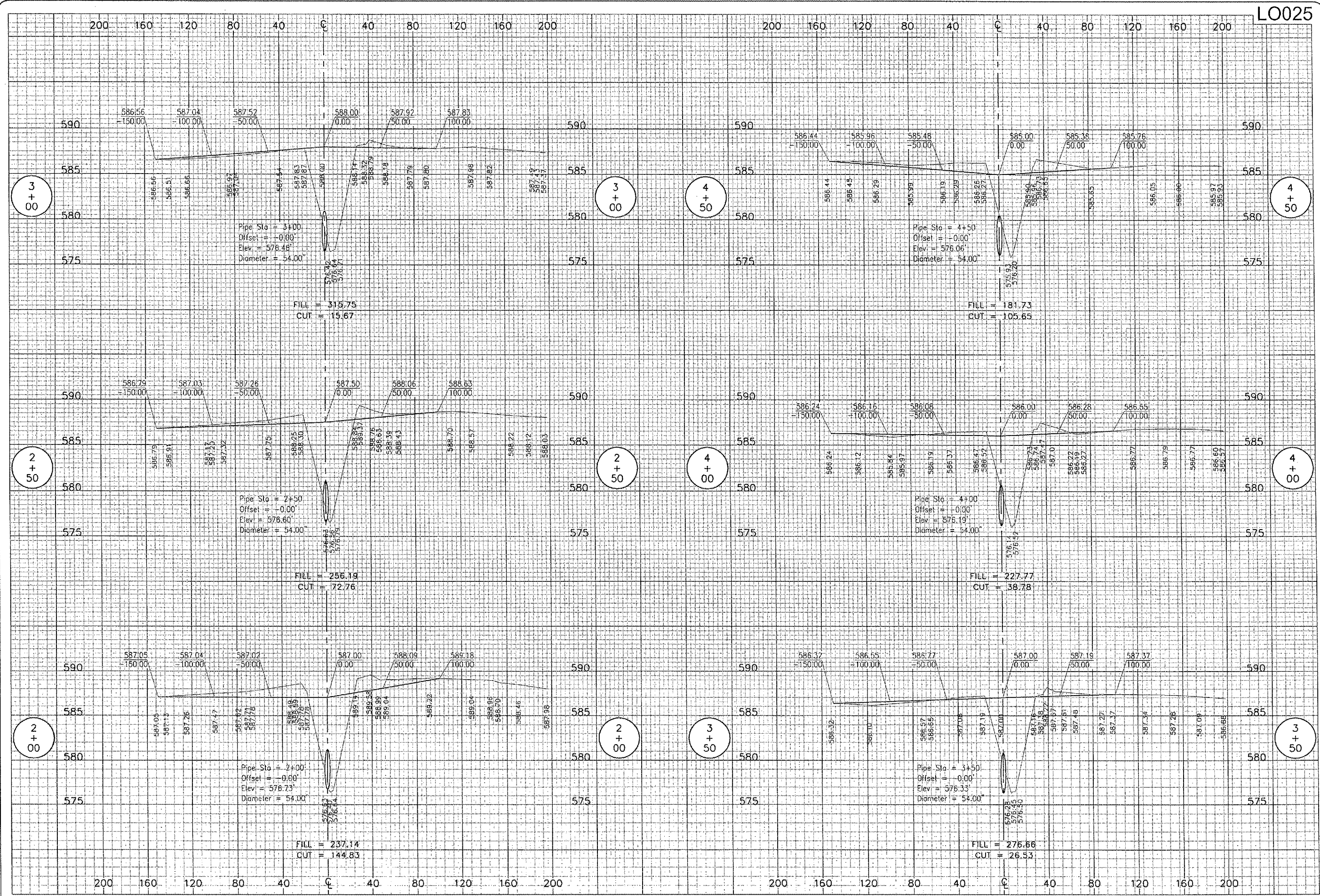
IL PROJ.: AAA-3545
 A.I.P. PROJ.: 3-17-0062-B13

HE Project No. 813-06DCND.0800	File Name: R-301XS.DWG
Scale: 1" = 40' H. / 5' V.	Date: 10/13/06
LAYOUT	CCC
DRAWN	CCC
REVIEWED	CAH
	10/13/06



DRAINAGE IMPROVEMENTS

PROPOSED CROSS-SECTIONS
 FOR SOUTHEAST QUADRANT
 STA. 0+00 TO STA. 1+50



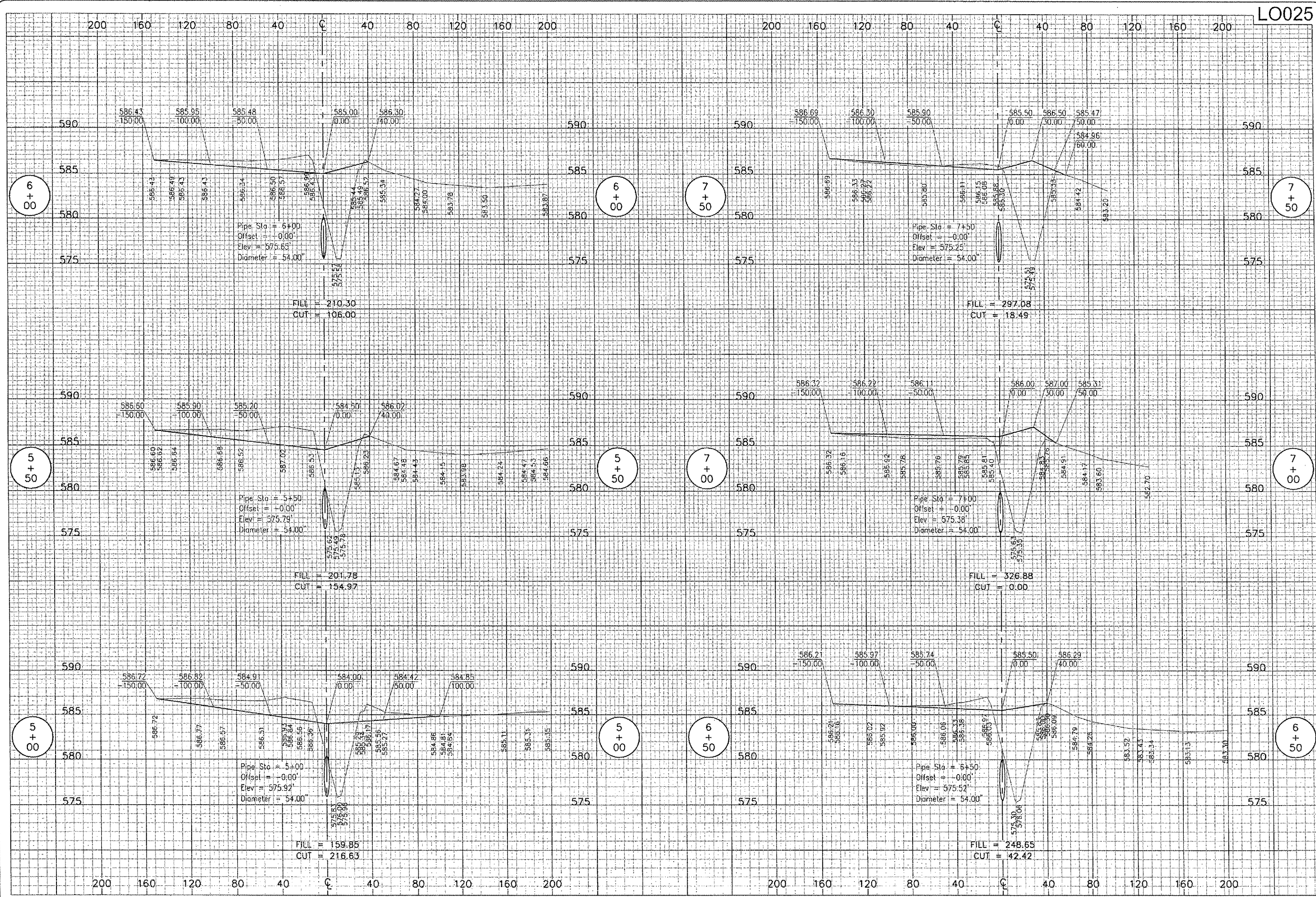
DATE	REVISION	BY

LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS
 A.I.P. PROJ.: 3-17-0062-813
 I.L. PROJ.: AAA-3545

FILE PROJECT No. 813-0600ND 0800	DATE	10/13/06
FILENAME R-302XS.DWG	SCALE	1" = 40' H. / 5" V.
DRAWN	REVIEWED	CAH
DATE	DATE	DATE
10/13/06	10/13/06	10/13/06



DRAINAGE IMPROVEMENTS
 PROPOSED CROSS-SECTIONS
 FOR SOUTHEAST QUADRANT
 STA. 2+00 TO STA. 4+50



LO025

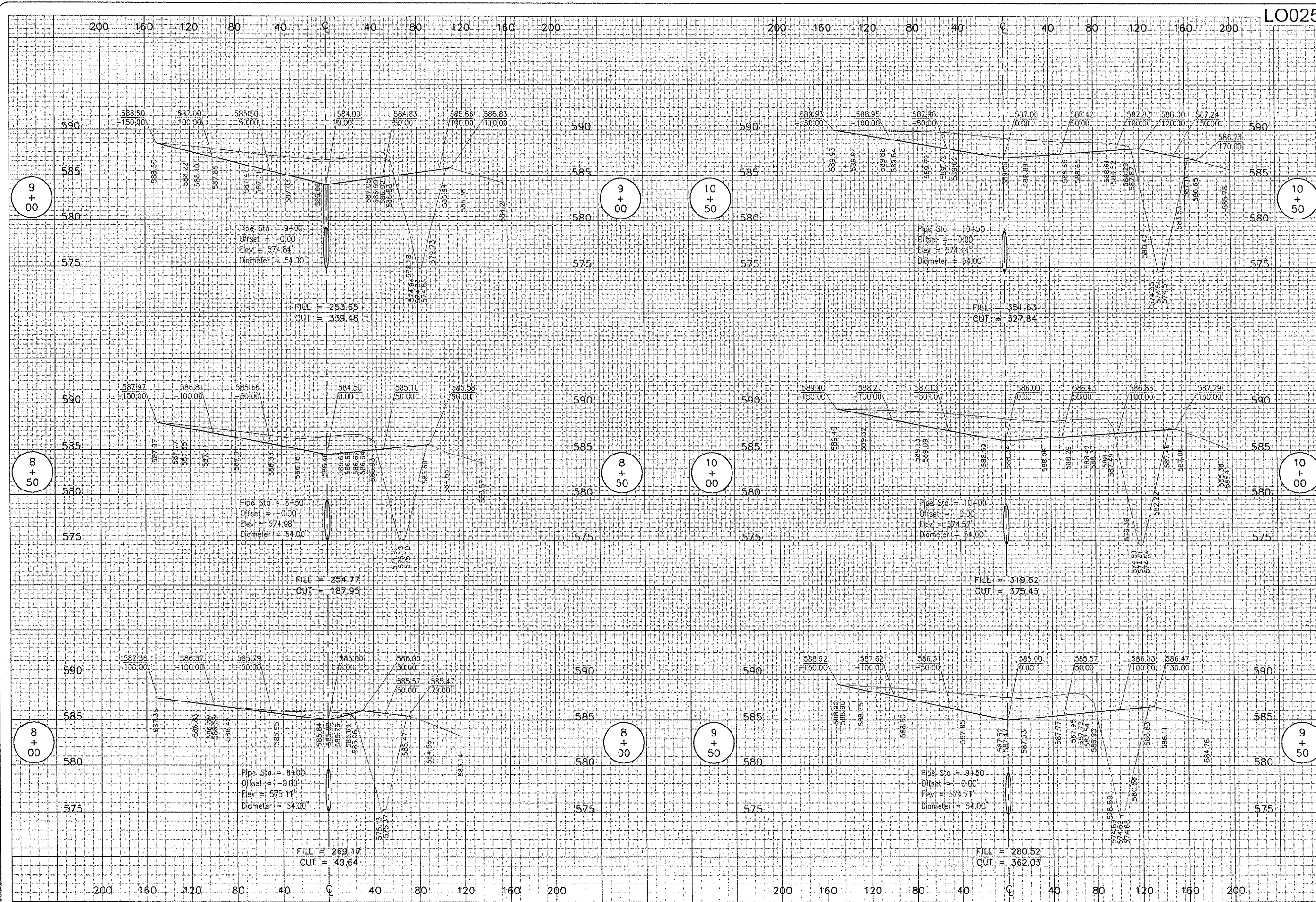
DATE	REVISION

LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS

PROJECT NO.	DATE
813-060GND 0800	10/13/06
R-303XS.DWG	10/13/06
Scale: 1" = 40' H. / 5' V.	10/13/06
Date: 10/13/06	10/31/06



DRAINAGE IMPROVEMENTS
 PROPOSED CROSS-SECTIONS
 FOR SOUTHEAST QUADRANT
 STA. 5+00 TO STA. 7+50



LO025

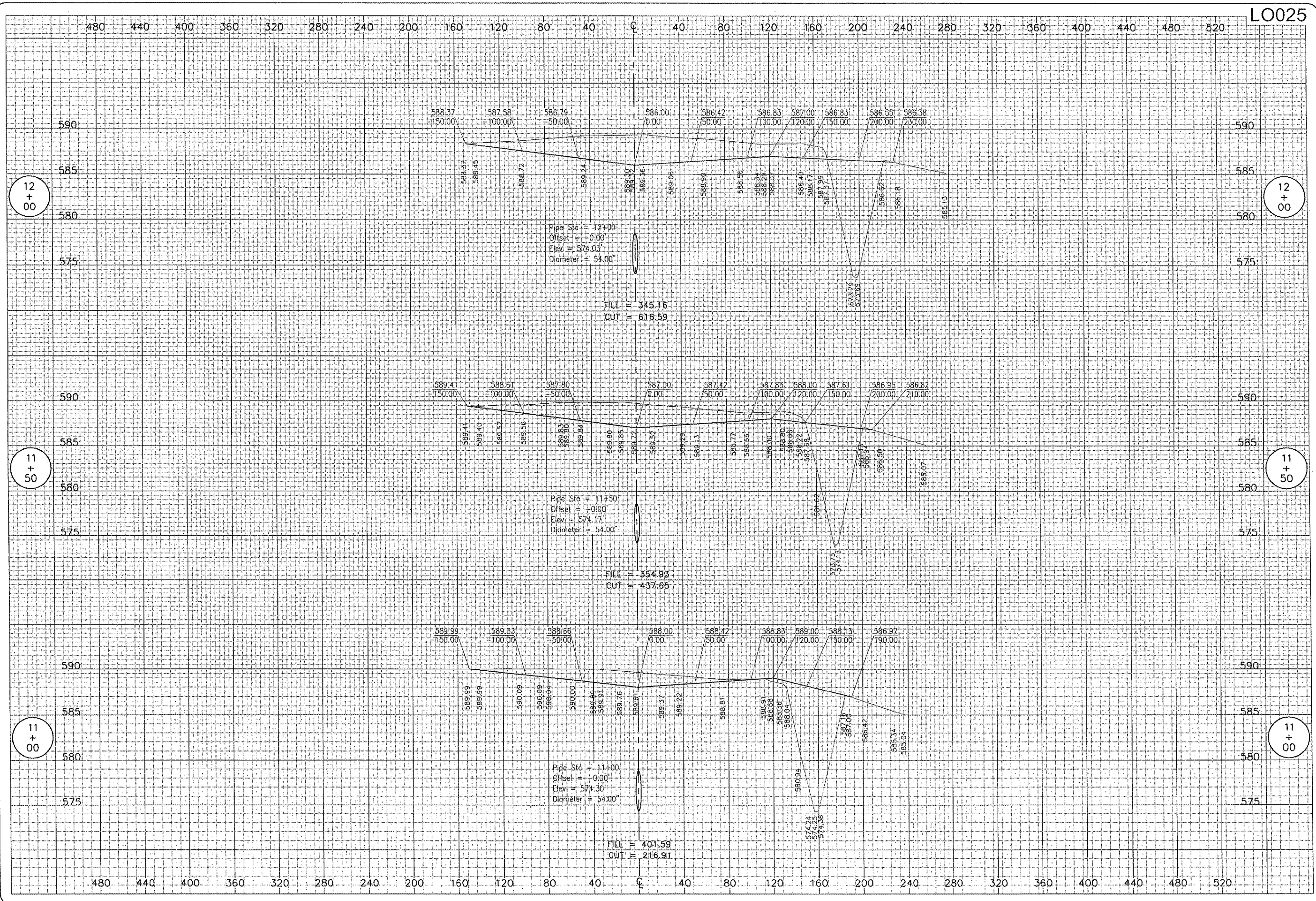
DATE	REVISION	BY

LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS

FILE Project No. 813-060GND-0800	LAYOUT	CCC	10/13/06
Drawn R-304XS.DWG	DRAWN	CCC	10/13/06
Scale 1" = 40' H. / 5' V	REVIEWED	CAH	10/31/06
Date 10/13/06			



DRAINAGE IMPROVEMENTS
 PROPOSED CROSS-SECTIONS
 FOR SOUTHEAST QUADRANT
 STA. 8+00 TO STA. 10+50



DATE	REVISION	BY

LOGAN COUNTY AIRPORT
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 I.L. PROJ.: 444-3545 A.I.P. PROJ.: 3-17-0062-813

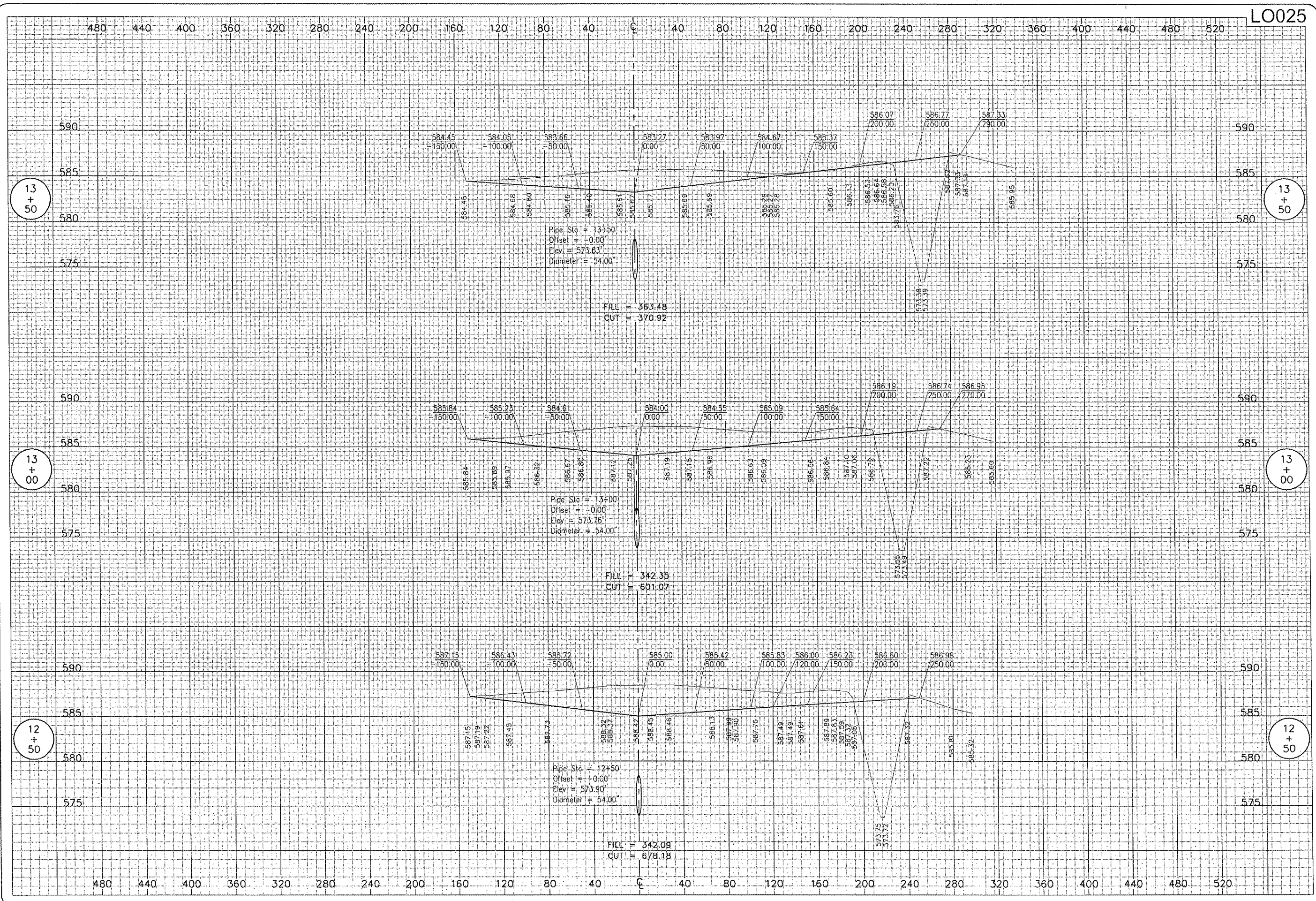
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LAYOUT	CCC	10/13/06
DRAWN	CCC	10/13/06
REVIEWED	CAH	10/31/06



DRAINAGE IMPROVEMENTS
 PROPOSED CROSS-SECTIONS
 FOR SOUTHEAST QUADRANT
 STA. 11+00 TO STA. 12+00

C:\C 22 2006 7:56 AM CAH
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DATE	REVISION	BY

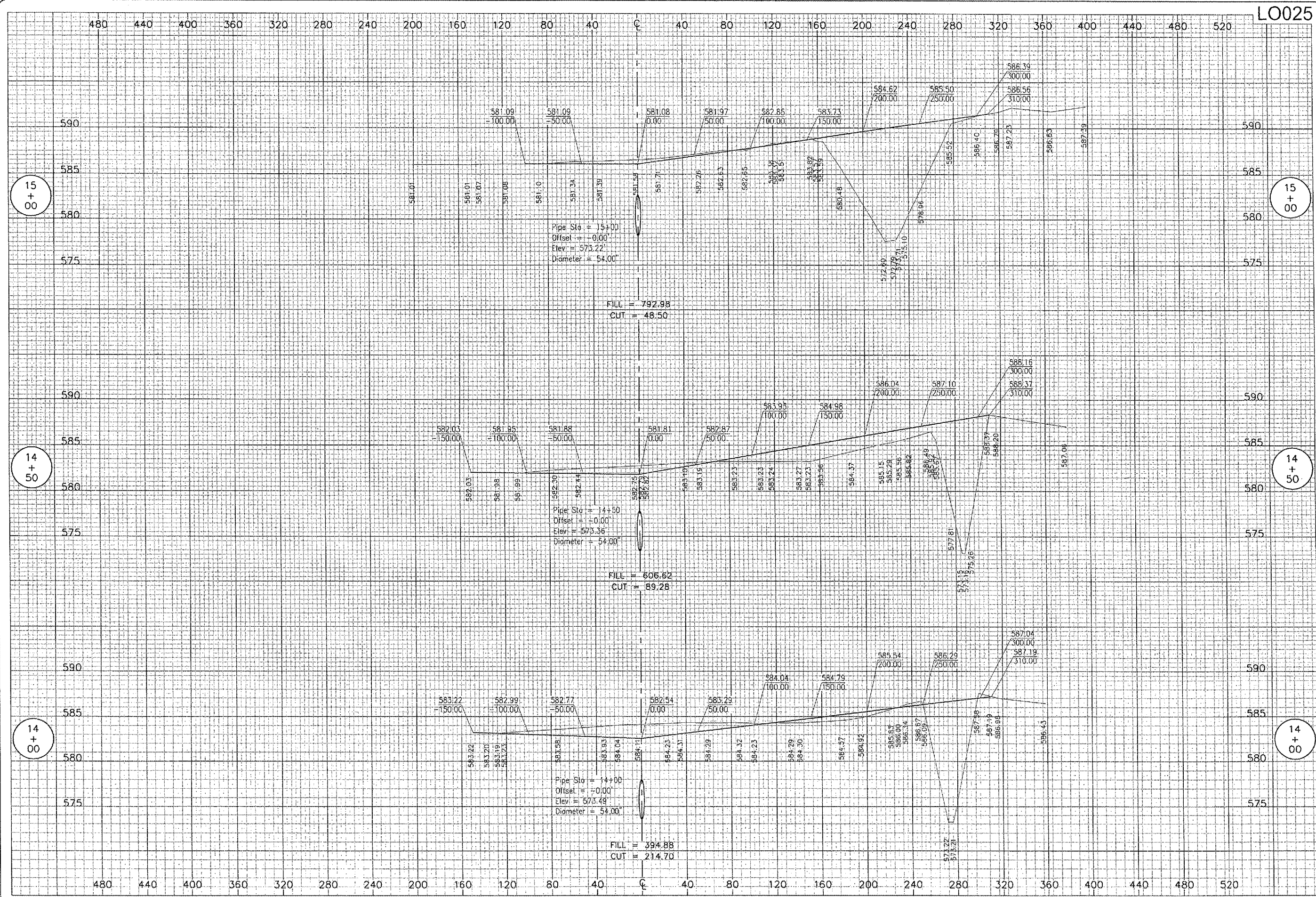
LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS
 I.L. PROJ.: AA-3545
 A.I.P. PROJ.: 3-17-0062-B13

NET Project No. 813-060GN-0800	
Drawings R-306XS.DWG	
Scale 1" = 40' H / 5' V	
Date 10/13/06	
LAYOUT	ECC 10/13/06
DRAWN	CCC 10/13/06
REVIEWED	CAH 10/31/06



DRAINAGE IMPROVEMENTS
 PROPOSED CROSS-SECTIONS
 FOR SOUTHEAST QUADRANT
 STA. 12+50 TO STA. 13+50

D:\C 22, 2006 7:57 AM CAH
 I:\AIRPORTS\LOGAN\813-060GN\AIRPORT SHEETS\R-307AS.DWG - 14+00 - 15+00



LO025

DATE	REVISION

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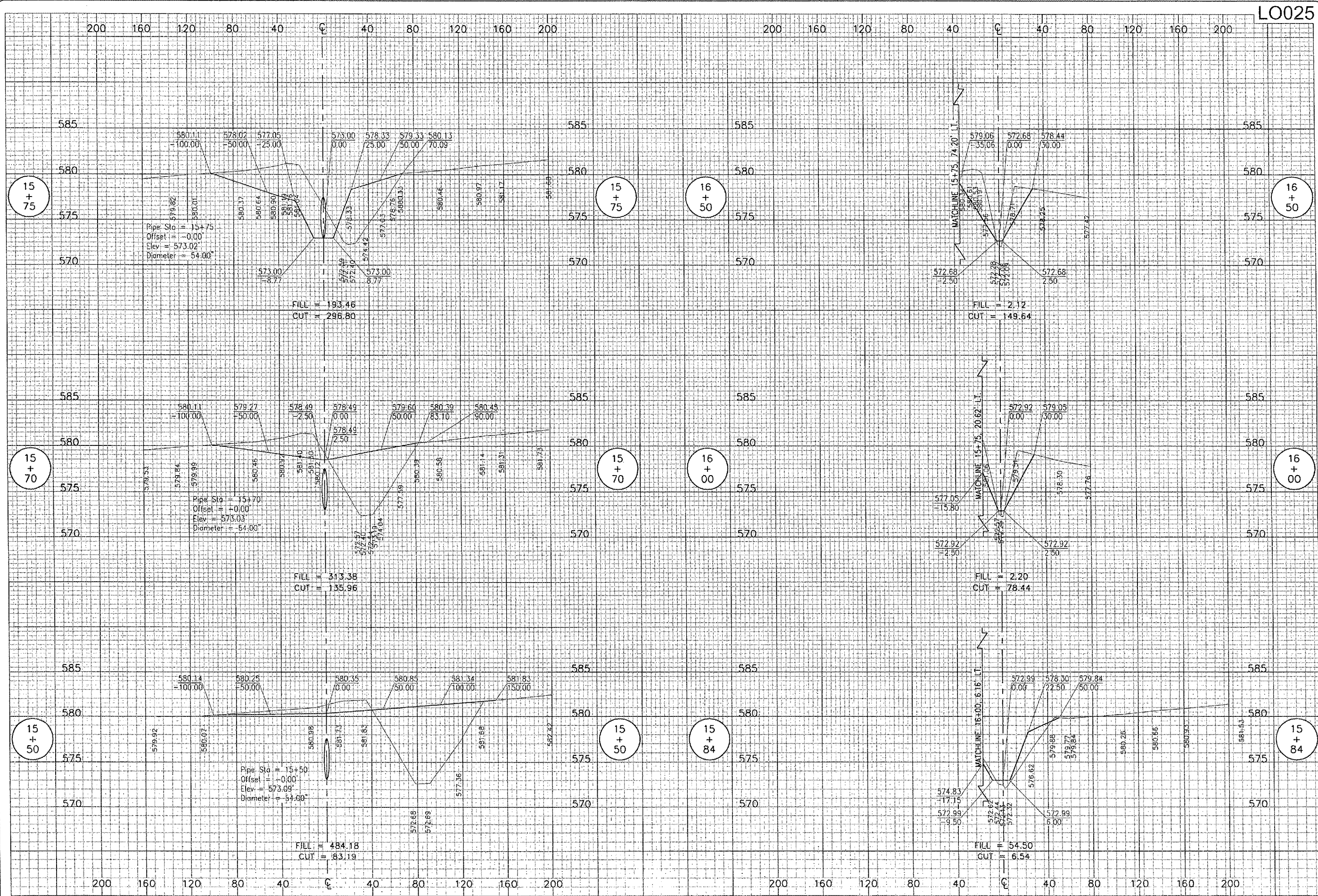
ILL. PROJ.: AAA-3545 A.I.P. PROJ.: 3-17-0062-B13

REL. PROJECT No. 813-060GND 0800	
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Scale: 1" = 40' H. / 5' V.	
Date: 10/13/06	
LAYOUT	CCC 10/13/06
DRAWN	CCC 10/13/06
REVIEWED	CAH 10/31/06



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DRAINAGE
 IMPROVEMENTS
 PROPOSED CROSS-SECTIONS
 FOR SOUTHEAST QUADRANT
 STA. 14+00 TO STA. 15+00



DATE	REVISION	BY

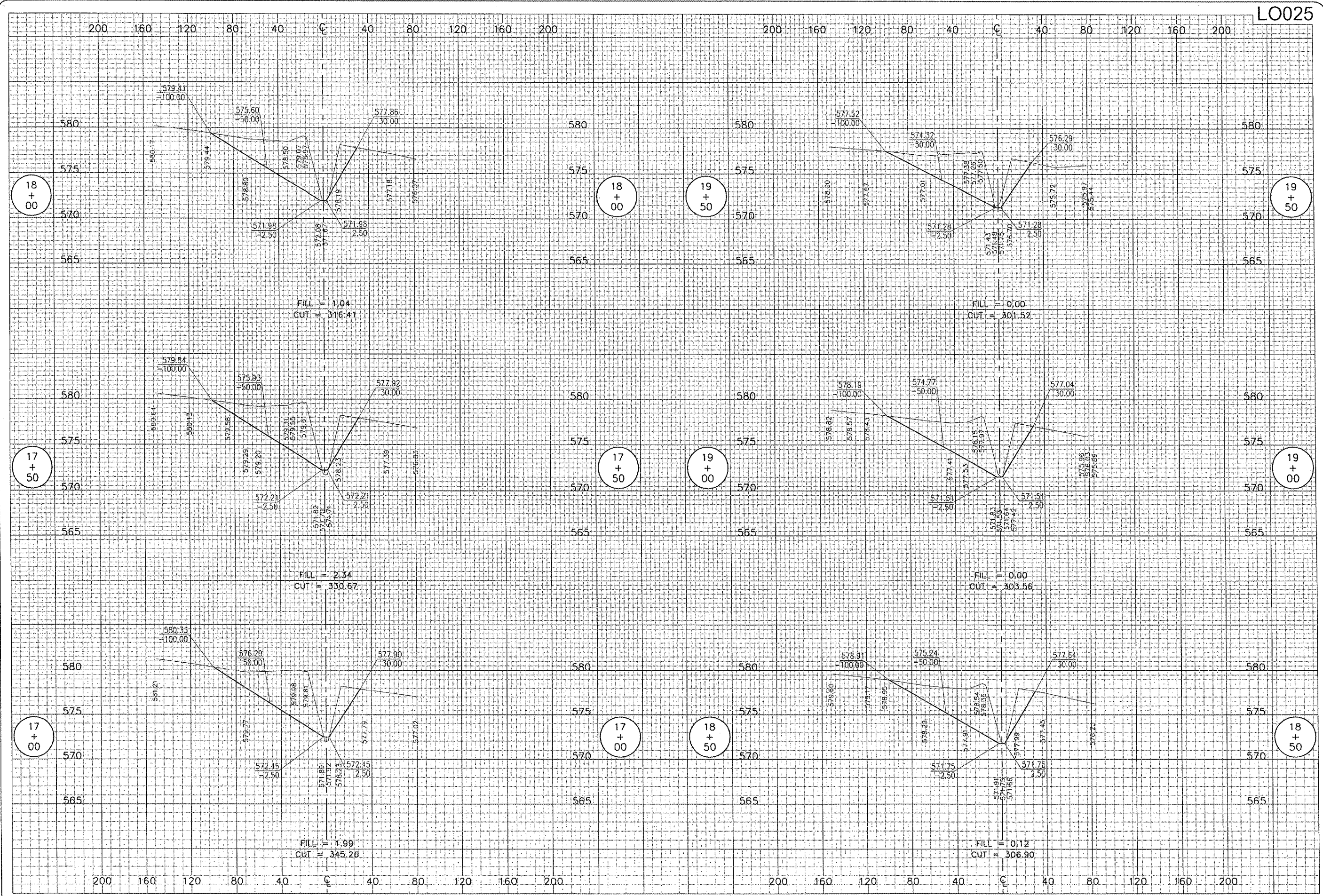
LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS
 I.L. PROJ.: 444-3545
 A.L.P. PROJ.: J-17-0062-B13

H&E Project No. 813-0600ND-0800 Drawing R-308XS.DWG Scale 1" = 40' H. / 5' V. Date 10/18/06	LAYOUT CCC 10/18/06 DRAWN CCC 10/18/06 REVIEWED CAH 10/31/06
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DRAINAGE IMPROVEMENTS
 PROPOSED CROSS-SECTIONS
 FOR SOUTHEAST QUADRANT
 STA. 15+50 TO STA. 16+50

11:22, 2006 7:59 AM CAH
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LO025

DATE	REVISION	BY

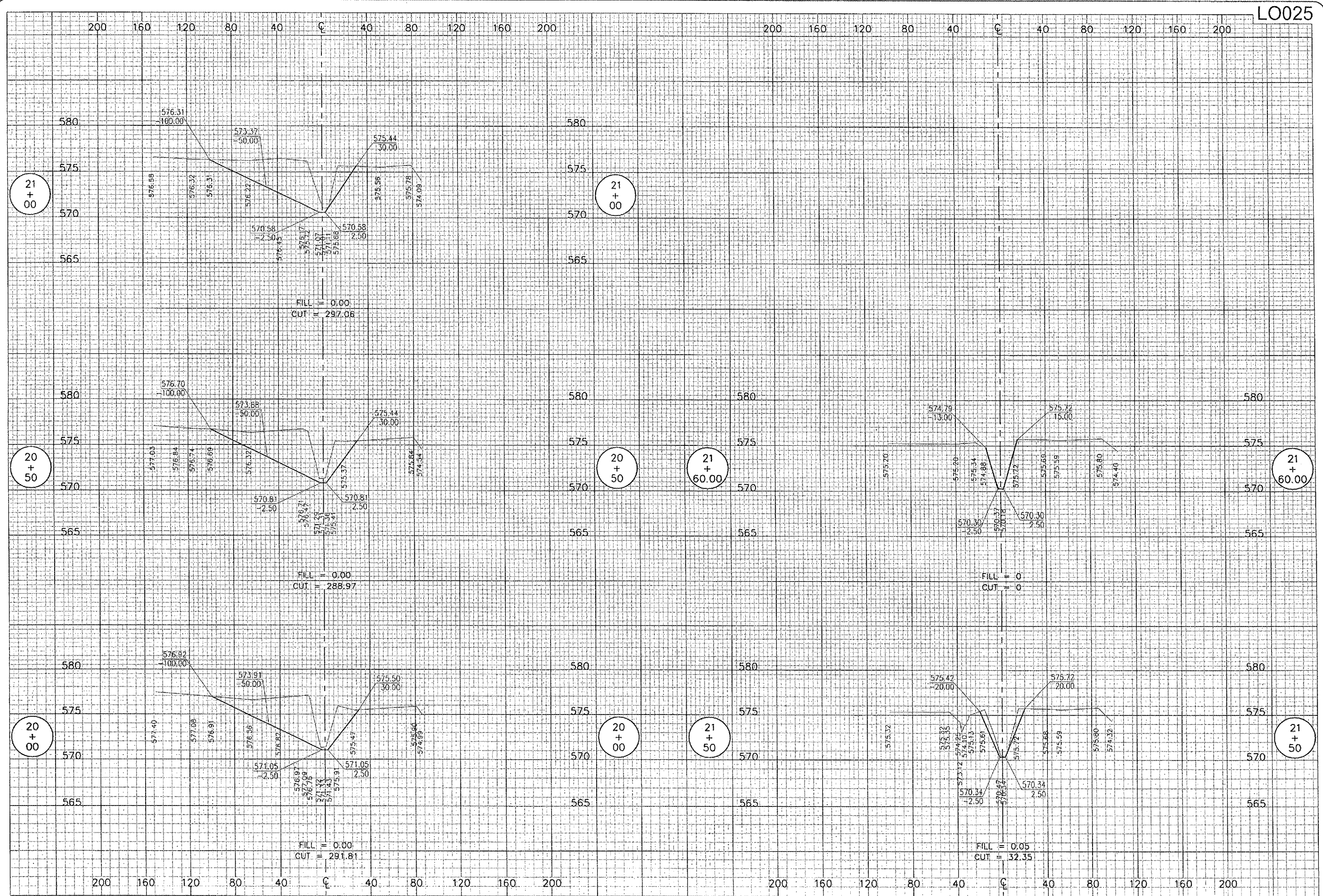
LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS
 I.L. PROJ.: AA-3545 A.I.P. PROJ.: 3-17-0062-B13

NET Project No. 813-0600ND_0800	CCC	10/16/06
Planets R-309XS.DWG	CCC	10/16/06
Scale 1" = 40' H. / 5' V.	CAH	10/31/06
Date 10/16/06		
LAYOUT		
DRAWN		
REVIEWED		



DRAINAGE IMPROVEMENTS
 PROPOSED CROSS-SECTIONS
 FOR SOUTHEAST QUADRANT
 STA. 17+00 TO STA. 19+50

2006 8:00 AM CAH
 \AIRPORTS\LOGAN\813-060GN_AIRPORT\SHEETS\813-060GN_AIRPORT - 20+00 - 21+60.00



L0025

DATE	REVISION	BY

LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS

IL PROJ.: AAA-3545 A.I.P. PROJ.: 3-17-0062-B13

HD Project No. 813-060GN.DWG Filename R-310X.S.DWG Scale 1" = 40' H. / 5' V. Date 10/13/06	LAYOUT CCC 10/13/06 DRAWN CCC 10/13/06 REVIEWED CAH 10/31/06
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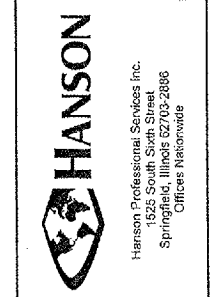
DRAINAGE IMPROVEMENTS
 PROPOSED CROSS-SECTIONS
 FOR SOUTHEAST QUADRANT
 STA. 20+00 TO STA. 21+60.00

ADDITIVE ALTERNATE NO. 1

NORTHWEST QUADRANT DRAINAGE IMPROVEMENTS

11/13/06 8:02 AM CAH
\\AIRPORTS\LOGAN\813-06DGN\AIRPORT_SHEETS\R-004FLP.DWG - COVER

HEL Project No.	813-06DGN.D_0800	
Client	R-004FLP.DWG	
Scale	NOT TO SCALE	
Date	07/13/06	
LAYOUT	CAH	07/13/06
DRAWN	BAK	07/13/06
REVIEWED	CAH	10/31/06



DRAINAGE IMPROVEMENTS

ADD. ALT. NO. 1
NORTHWEST
QUADRANT

DATE	REVISION	BY

LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS

IL PROJ.: AAA-3545 A.I.P. PROJ.: 3-17-0062-813

LEGEND

- EXISTING PAVEMENT
- EXISTING BUILDINGS
- EXISTING STORM SEWER
- PROPOSED UNDERDRAIN
- EXISTING INLET

DRAINAGE QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
ASR70541	POROUS BACKFILL NO. 1	C.Y.	443
AS705524	4" PERFORATED UNDERDRAIN W/SOCK	L.F.	9,850
AS705530	10" PERFORATED UNDERDRAIN W/SOCK	L.F.	1,626

705-UNDERDRAIN NOTES:

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

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING 4" & 10" P.E. TUBING (WRAPPED) AT THE LOCATIONS AND TO THE GRADES SHOWN ON THE CONSTRUCTION PLANS.

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

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

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

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

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

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

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

THE TRENCH SHALL BE BACKFILLED WITH SELECT MATERIAL, MEETING THE APPROVAL OF THE ENGINEER, PLACED IN 8 IN. LAYERS, LOOSE MEASUREMENT, AND COMPACTED TO THE ENGINEER'S SATISFACTION. THE PIPE UNDER PROPOSED PAVEMENT, PLUS 10 FT ON EITHER SIDE, WILL BE BACKFILLED WITH POROUS BACKFILL TO THE ORIGINAL GROUND ELEVATIONS OR TO THE SUBGRADE ELEVATION IF THE FILL HAS BEEN CONSTRUCTED PRIOR TO THE INSTALLATION."

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

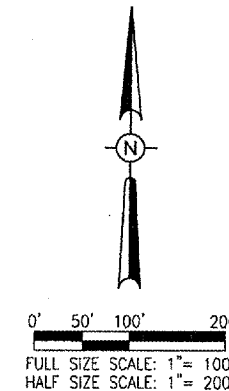
"THE EDGE DRAIN TRENCH WILL BE BACKFILLED WITH POROUS BACKFILL NO. 1 IN ACCORDANCE WITH THE DETAIL ON THE CONSTRUCTION PLANS. THE POROUS BACKFILL WILL BE COMPACTED IN ACCORDANCE WITH THE SPECIFICATION SET FORTH FOR GRANULAR MATERIAL BACKFILL."

POROUS BACKFILL NO. 1 MATERIAL SHALL CONFORM TO THE REQUIREMENTS FOR IDOT CA-14 OR CA-16.

ALL EXCESS EARTH MATERIAL LEFT AFTER THE UNDERDRAIN PIPES HAVE BEEN COMPLETELY BACKFILLED WILL BE DISPOSED OF ON THE AIRPORT AT LOCATIONS DESIGNATED BY THE AIRPORT MANAGER. DISPOSAL OF THE MATERIAL WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE UNDERDRAIN PIPE INSTALLATION AND NO ADDITIONAL PAYMENT WILL BE ALLOWED.

THE 10" P.E. TUBING WILL BE INSTALLED 2' FROM THE EXISTING 6" P.E. TUBING. THE CONTRACTOR WILL HAND DIG THE CONNECTION INTO THE EXISTING INLETS TO AVOID DAMAGE TO THE EXISTING 6" P.E. TUBING. THE CONTRACTOR MAY HAVE TO MOVE THE EXISTING 6" P.E. TUBING CONNECTION IN THE EXISTING INLETS TO MAKE ROOM FOR THE PROPOSED 10" P.E. TUBING. THIS WILL BE DONE AS AN INCIDENTAL ITEM TO THE INSTALLATION OF THE THE 10" P.E. TUBING AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

NOTE:
THERE IS AN EXISTING 6" P.E. TUBING IN CLOSE PROXIMITY TO THE PROPOSED 10" P.E. TUBING. THE PROPOSED 10" P.E. TUBING WILL BE INSTALLED 2' TO THE DEVELOPMENT SIDE OF THE EXISTING 6" P.E. TUBING. THE CONTRACTOR WILL USE EXTREME CARE NOT TO DAMAGE THIS PIPE. ANY DAMAGE TO THIS PIPE WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.



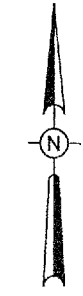
DATE	REVISION	BY
12/22/06	REVISED AS PER IGA REVIEW	CAH

LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS
A.I.P. PROJ.: 3-17-0062-813
IL PROJ.: AAA-3545

DATE	BY	REVIEWED
08/21/06	CCC	CCC
09/11/06	CAH	CAH

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Offices Nationwide

DRAINAGE IMPROVEMENTS
PROPOSED DRAINAGE PLAN



0' 50' 100' 200'
 FULL SIZE SCALE: 1" = 100'
 HALF SIZE SCALE: 1" = 200'

LEGEND

- EXISTING PAVEMENT
- EXISTING BUILDINGS
- EXISTING INLET

COORDINATE DATA (LINE A)

ID.	STATION	OFFSET	NORTHING	EASTING
1	0+00.00	EQ	1274407.7810	2528348.7587
2	0+00.00	600' RT.	1274892.3633	2527994.9509
3	1+22.48	EQ	1274336.8088	2528251.5547
4	1+22.48	450' RT.	1274664.9459	2527943.6166
5	1+61.75	EQ	1274302.9721	2528231.0386
6	1+61.75	300' RT.	1274349.2078	2527934.6230
7	1+22.48	50' LT.	1274294.9579	2528282.4174
8	2+01.02	EQ	1274264.6534	2528240.1605
9	2+01.02	325' RT.	1274134.3634	2527942.4220
10	3+00.00	EQ	1274184.3539	2528298.7873
11	3+00.00	300' RT.	1273948.4819	2527975.7324
12	5+00.00	EQ	1274022.8264	2528416.7233
13	5+00.00	300' RT.	1273786.9545	2528093.6684
14	7+00.00	EQ	1273861.2990	2528534.6592
15	7+00.00	300' RT.	1273625.4271	2528211.6043
16	8+16.23	EQ	1273768.6080	2528604.8120

COORDINATE DATA (LINE B)

ID.	STATION	OFFSET	NORTHING	EASTING
17	0+00.00	EQ	1274499.8058	2528474.7977
18	0+00.00	500' LT.	1274903.6244	2528179.9578
19	1+26.37	EQ	1274572.4007	2528574.2281
20	1+26.37	375' LT.	1274915.1067	2528421.9872
21	1+65.64	EQ	1274581.5293	2528612.5562
22	1+65.64	350' LT.	1274927.3476	2528666.4979
23	1+26.37	50' RT.	1274530.1506	2528604.5420
24	2+04.91	EQ	1274561.3370	2528646.1522
25	2+04.91	400' LT.	1274885.7171	2528880.1956
26	3+00.00	EQ	1274484.0148	2528702.6125
27	3+00.00	650' LT.	1274867.3066	2529227.5766
28	5+00.00	EQ	1274322.4873	2528820.5484
29	5+00.00	900' LT.	1274853.1991	2529547.4219
30	7+00.00	EQ	1274160.9599	2528938.4844
31	7+00.00	1,100' LT.	1274809.6076	2529826.8853
32	8+09.55	EQ	1274071.3060	2529001.4670
33	9+00.00	EQ	1273998.9477	2529055.7436
34	9+00.00	1,200' LT.	1274706.5634	2530024.9082
35	11+00.00	EQ	1273838.9560	2529175.7547
36	11+00.00	1,000' LT.	1274428.6358	2529983.3918
37	12+50.00	EQ	1273718.9623	2529265.7630
38	12+50.00	500' LT.	1274013.8021	2529669.5816
39	13+42.70	EQ	1273644.8050	2529321.3890

DATE	REVISION	BY

**LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS**

IL. PROJ.: AAA-3545 A.I.P. PROJ.: 3-17-0062-813

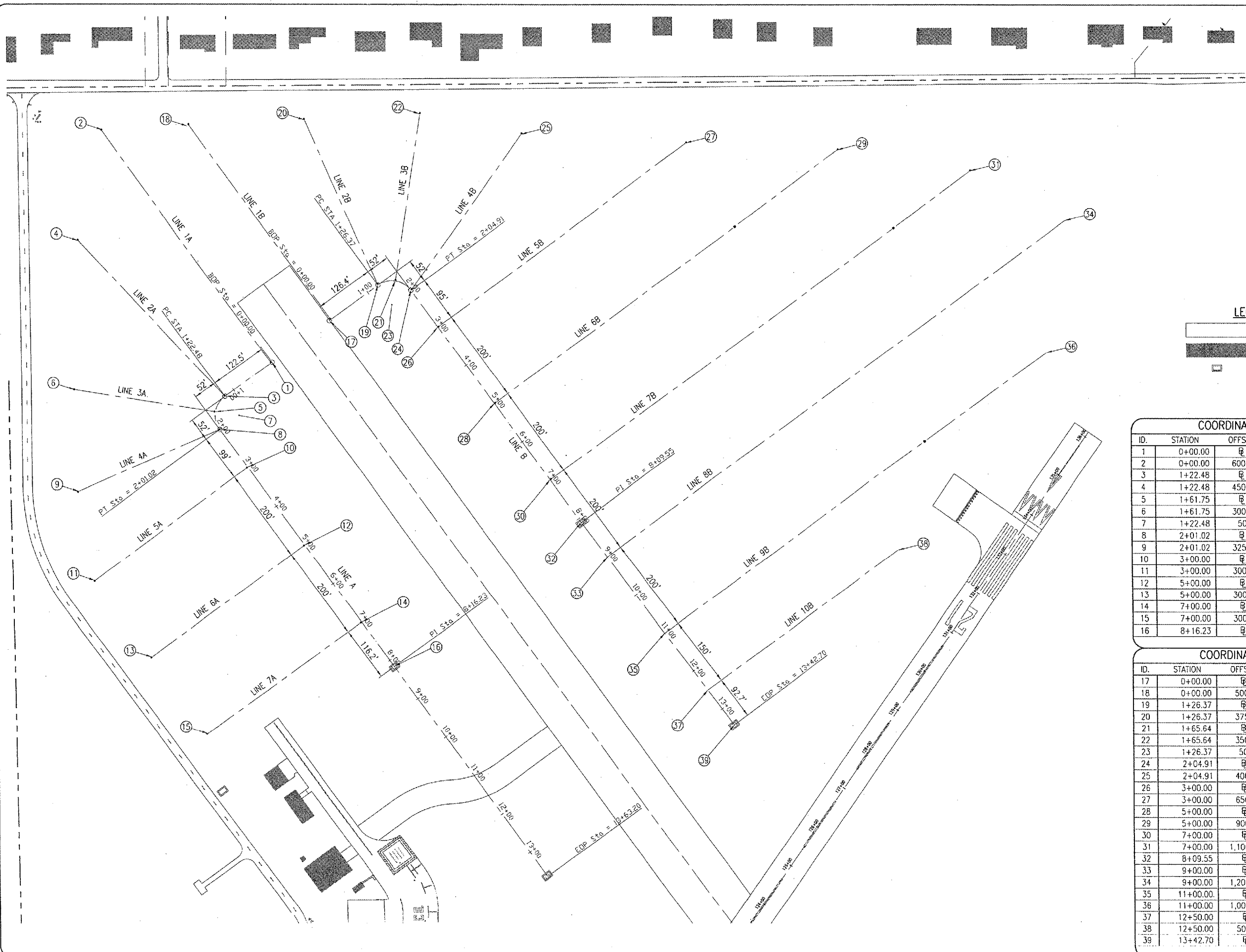
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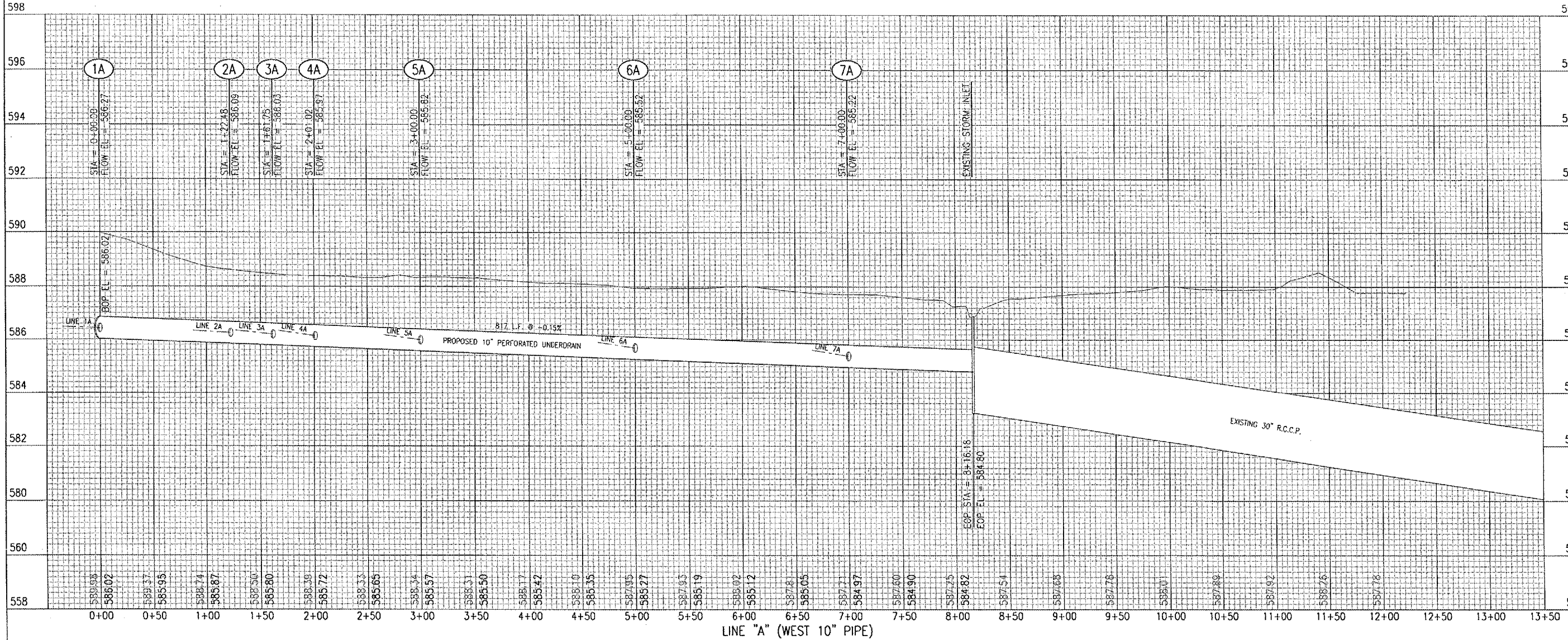
LAYOUT	CCC	08/21/06
DRAWN	CCC	09/11/06
REVIEWED	CAH	10/31/06

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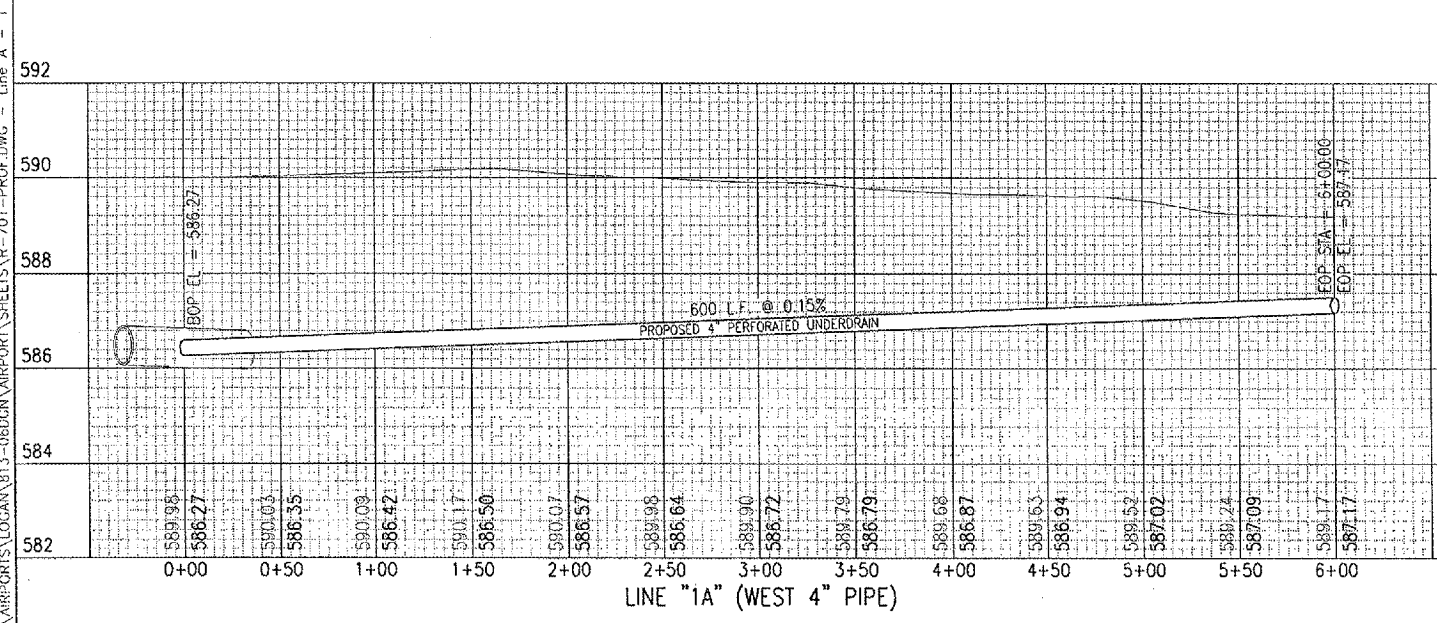
**DRAINAGE
 IMPROVEMENTS**

PROPOSED GEOMETRICS PLAN

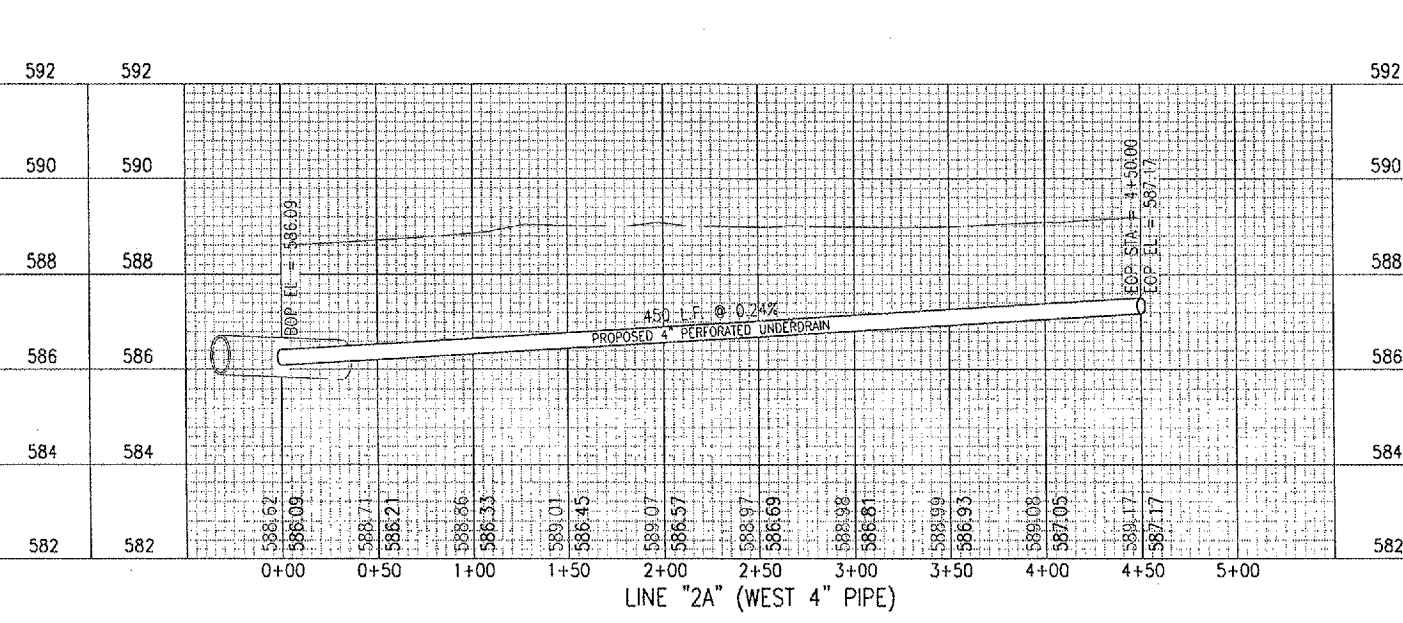




LINE "A" (WEST 10" PIPE)



LINE "1A" (WEST 4" PIPE)



LINE "2A" (WEST 4" PIPE)

PLOT 22, 2006 8:05 AM CAH
I:\PROJECTS\LOGAN\813-06DCM\AIRPORT_SHEETS\R-701-PROF.DWG - Line A - 1

DATE	REVISION	BY

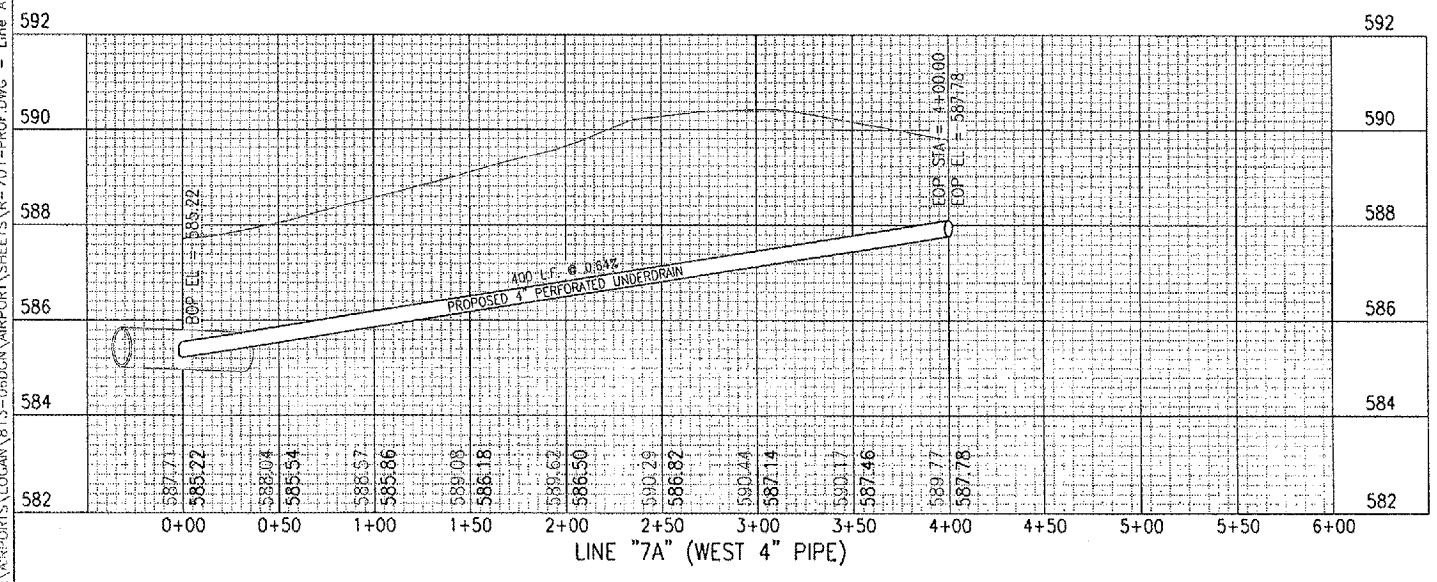
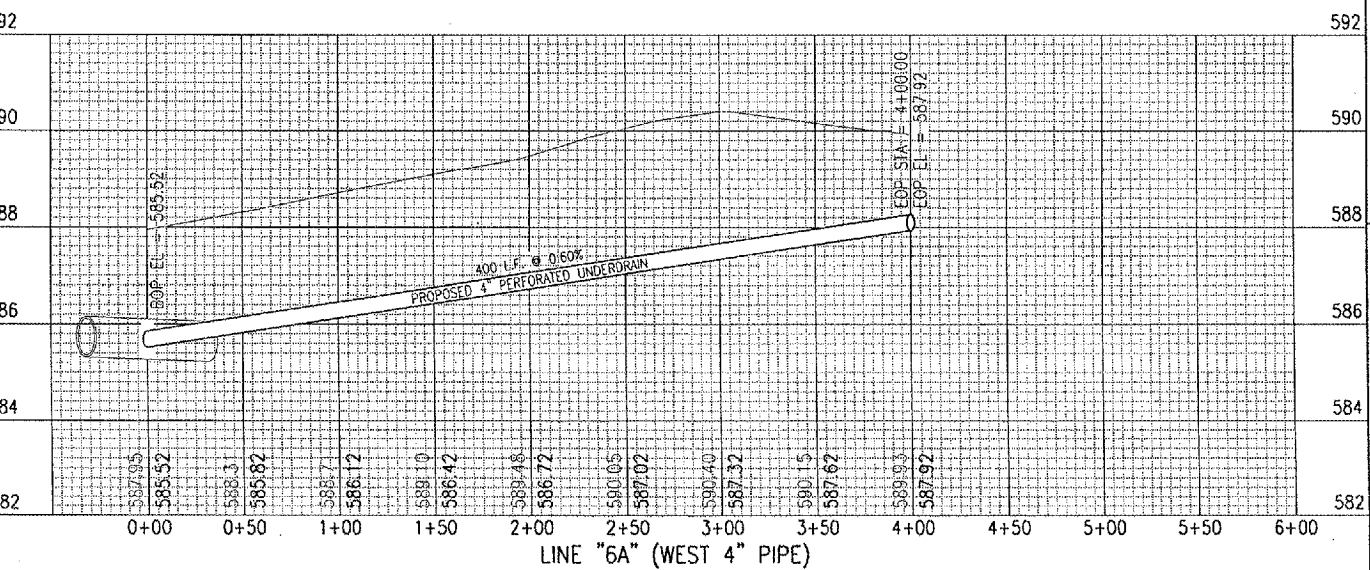
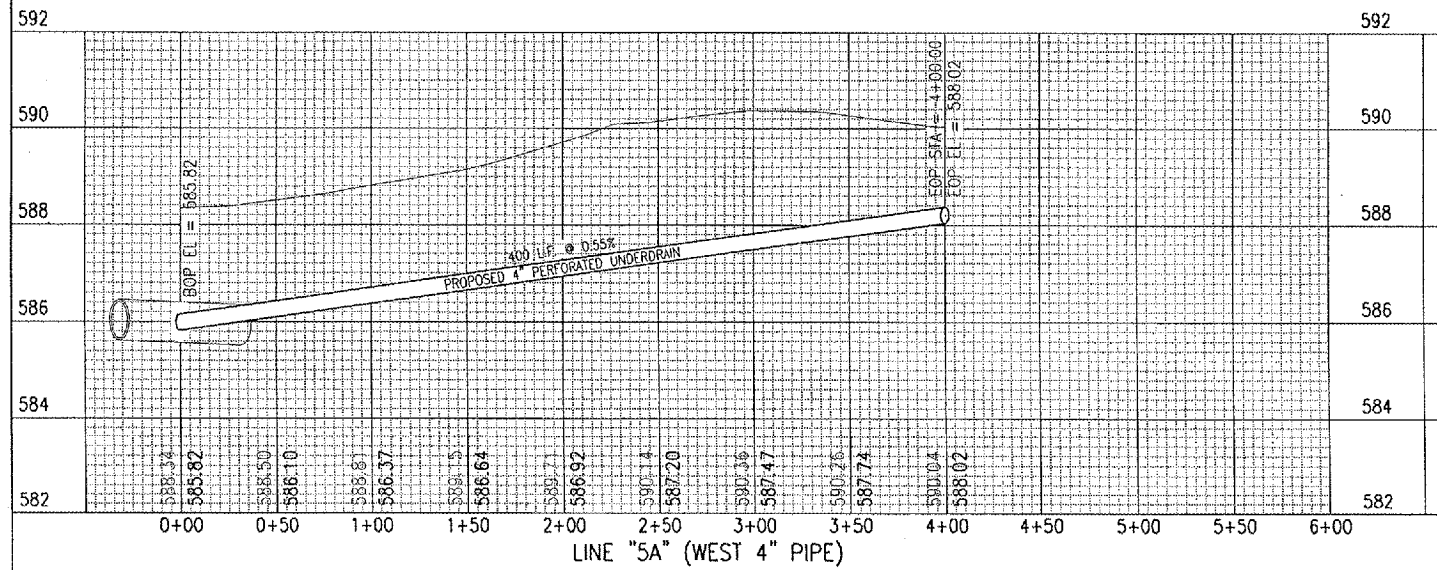
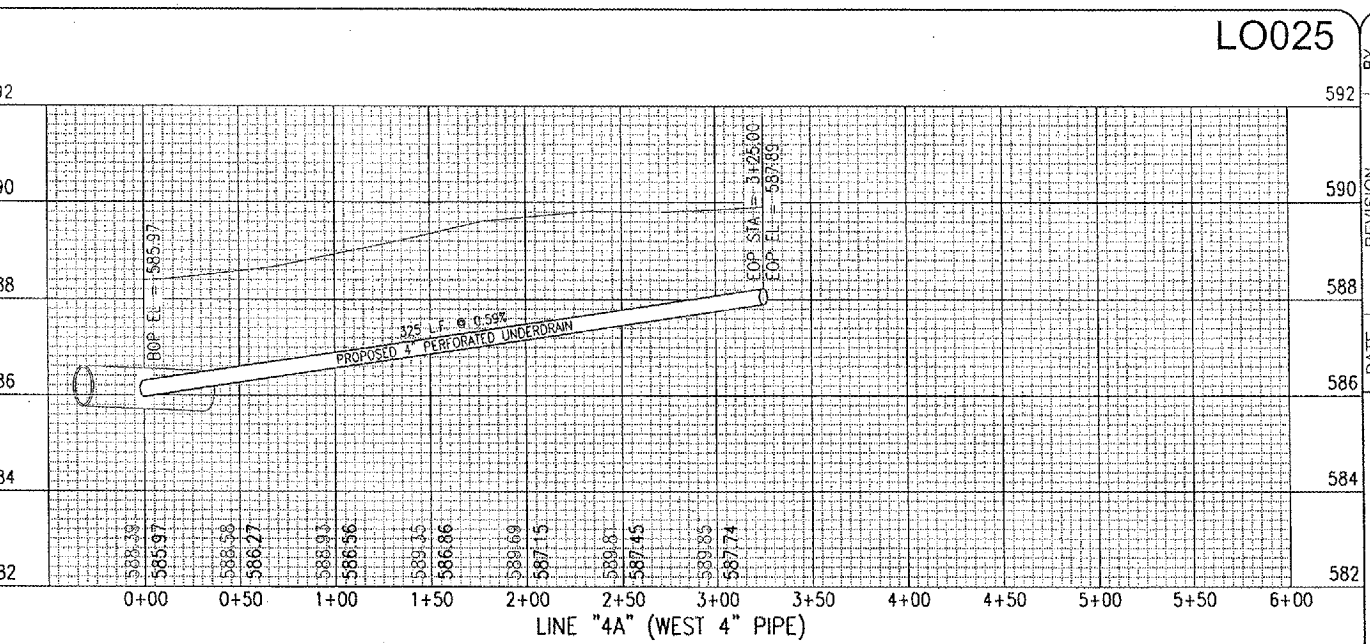
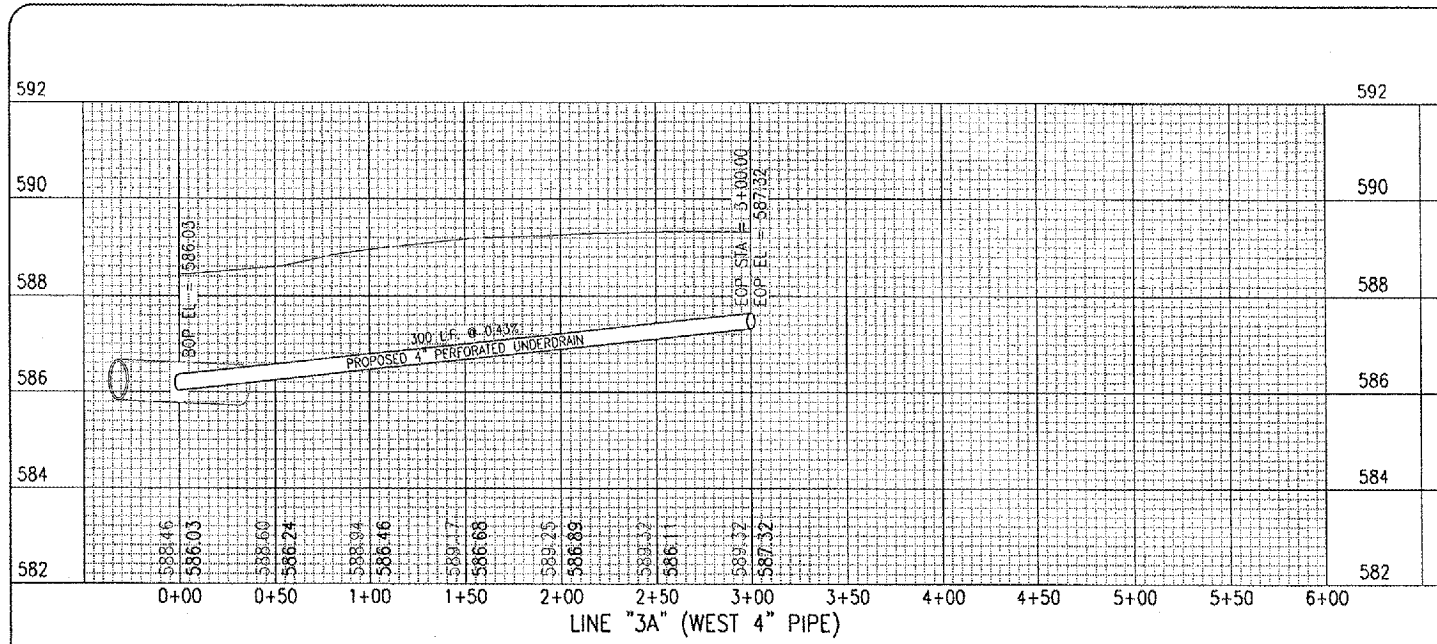
LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS

IL. PROJ.: AAA-3545 A.I.P. PROJ.: 3-17-0062-B13

FILENAME: R-701-PROF.DWG	DATE: 09/07/06
SCALE: 1" = 50'H./1" = 2'V.	LAYOUT: CCC 08/21/06
DATE: 09/07/06	DRAWN: CCC 09/07/06
	REVIEWED: CAH 10/31/06



DRAINAGE IMPROVEMENTS
PROPOSED PIPE PROFILES
LINE A, LINE 1A & LINE 2A



DATE	REVISION	BY

LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS

A.I.P. PROJ.: 3-17-0662-B13

IL. PROJ.: AA-3545

REVISION	DATE	BY
LAYOUT	08/21/06	CCC
DRAWN	09/07/06	CCC
REVIEWED	10/31/06	CAH

ILL. Project No. 813-0662-B13-0662-B13
 Drawings: R-701-PROF.DWG
 Scale: 1" = 50 H./1" = 2 V.
 Date: 09/07/06

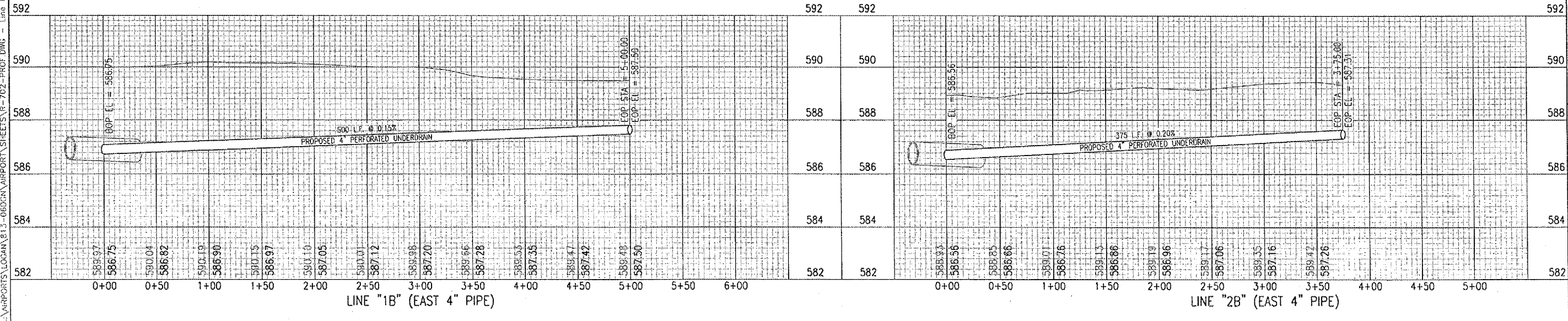
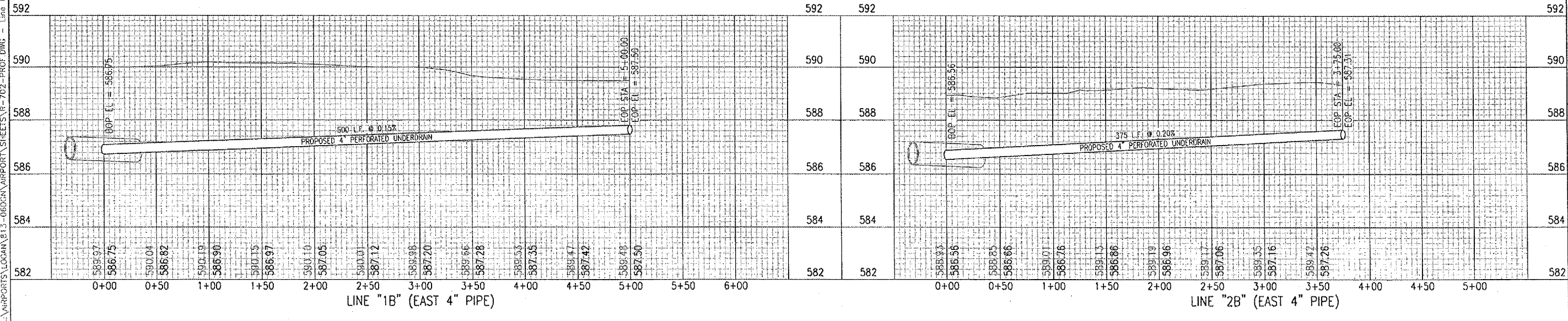
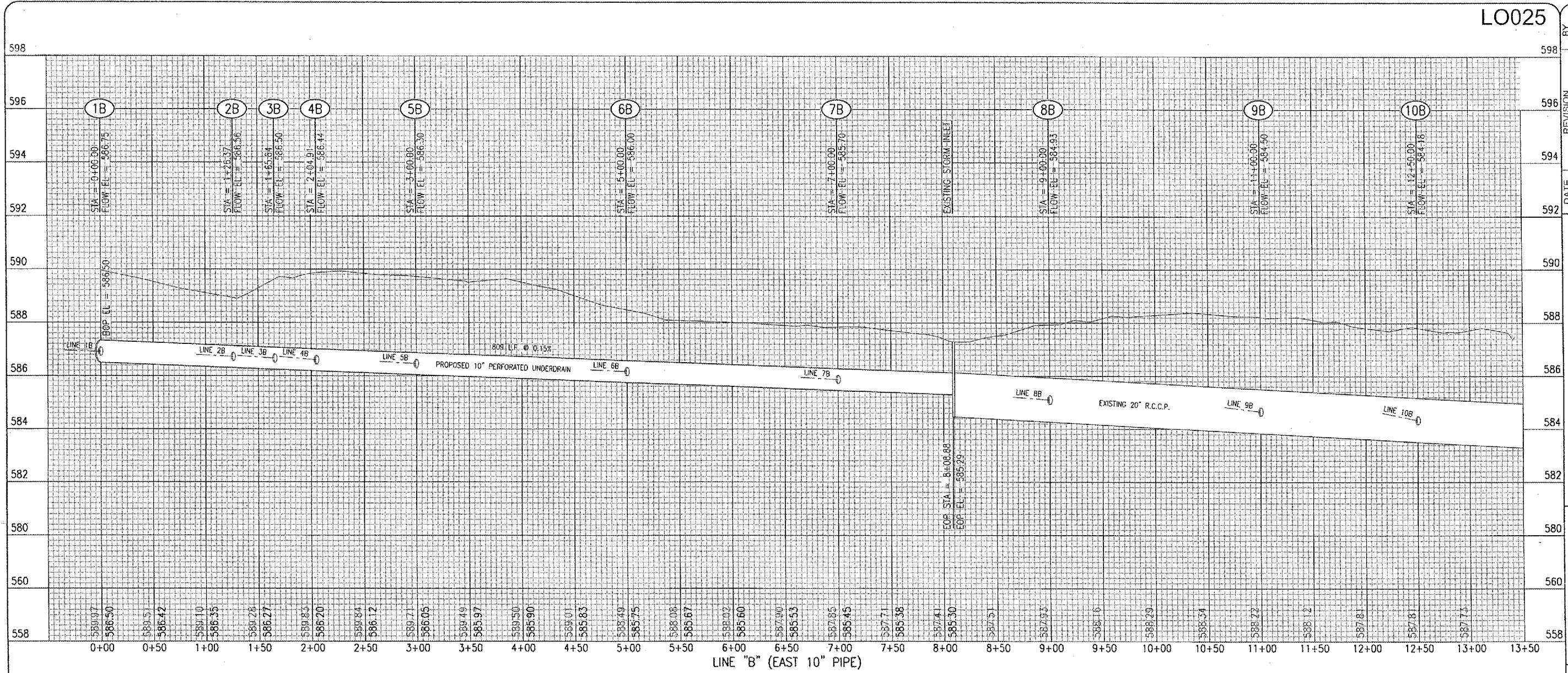


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1525 South Sixth Street
Springfield, Illinois 62703-2888
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DRAINAGE IMPROVEMENTS
PROPOSED PIPE PROFILES
LINE 3A, LINE 4A, LINE 5A
LINE 6A & LINE 7A

09/22/2006 8:06 AM CAH
 I:\REPORTS\LOGAN\B13-0662\AIRPORT\SHEETS\R-701-PROF.DWG - Line A - 2

JUL 22, 2006 8:08 AM CAH
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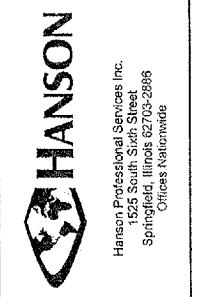
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DATE	REVISION	BY

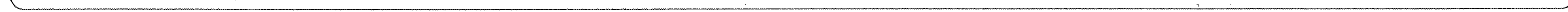
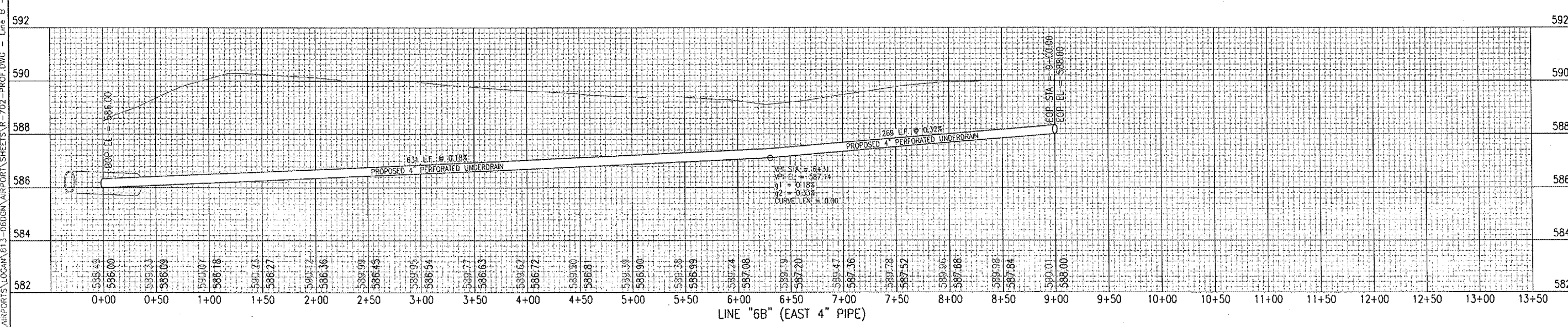
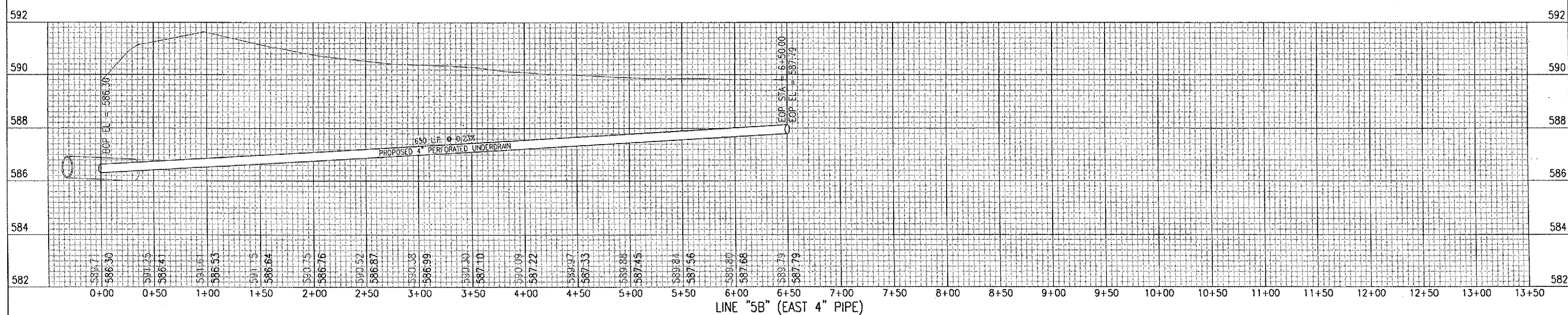
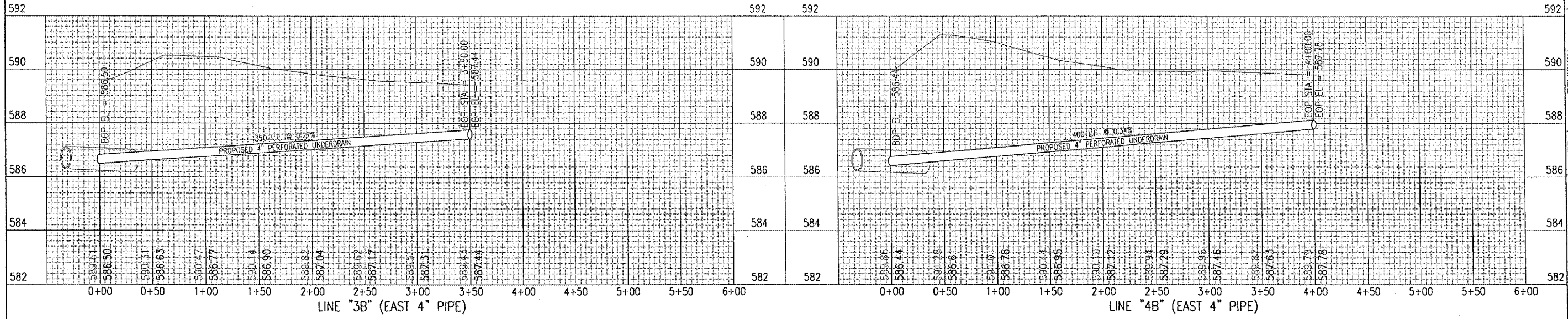
LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS
 I.L. PROJ.: AAA-3545
 A.I.P. PROJ.: 3-17-0062-B13

REVIEWED	DATE
CAH	10/31/06
CCC	09/07/06
CCC	08/21/06

File: R-702-PROF.DWG
 Scale: 1" = 50'H, 1" = 2' V.
 Date: 09/07/06



DRAINAGE IMPROVEMENTS
 PROPOSED PIPE PROFILES
 LINE B, LINE 1B & LINE 2B



BY	
REVISION	
DATE	

LOGAN COUNTY AIRPORT
LINCOLN, ILLINOIS

A.I.P. PROJ.: 3-17-0062-B13

IL. PROJ.: AAA-3545

Project No.	813-060CND_0800
Estimate	R-702-PROF.DWG
Scale	1" = 50'H./1" = 2'V.
Date	09/07/06
LAYOUT	CCC 08/21/06
DRAWN	CCC 08/07/06
REVIEWED	CAH 10/31/06

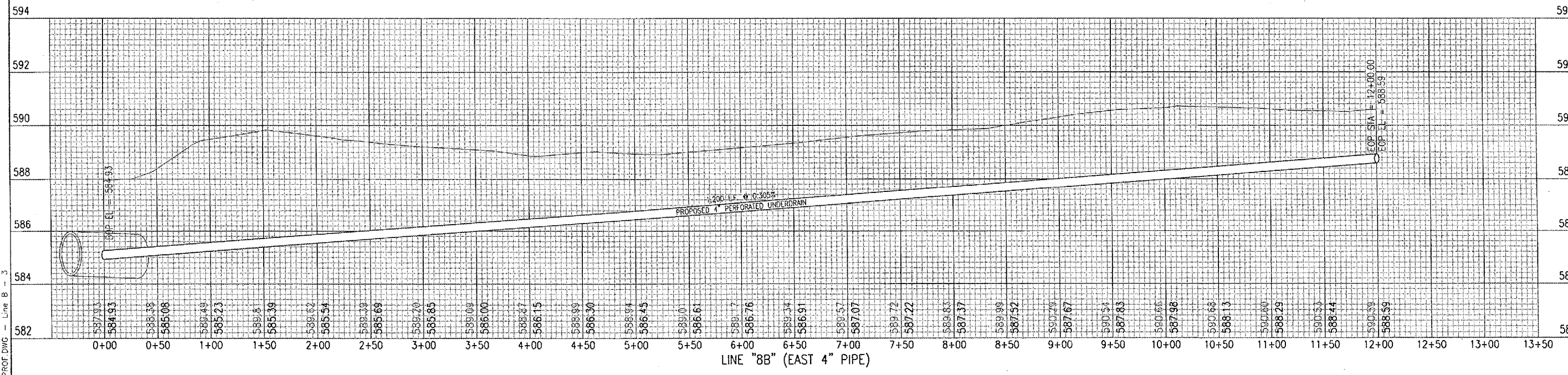
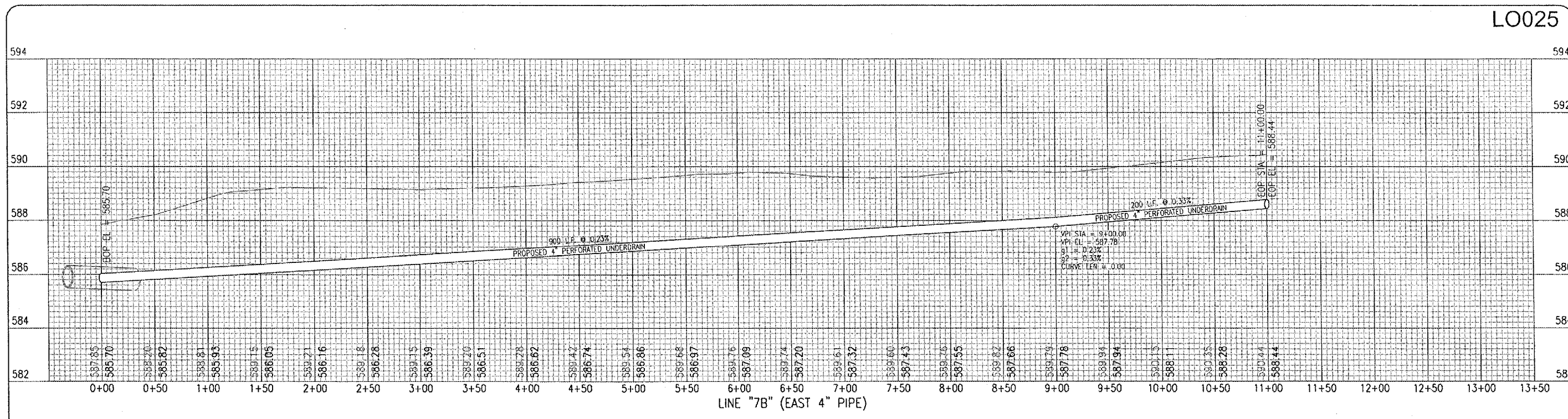


Hanson Professional Services Inc.
1526 South Sixth Street
Springfield, Illinois 62703-2886
Offices Nationwide

DRAINAGE
IMPROVEMENTS

PROPOSED PIPE PROFILES
LINE 3B, LINE 4B, LINE 5B &
LINE 6B

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L:\AIRPORTS\LOGAN\B13_060CND\AIRPORT\SHEETS\R-702-PROF.DWG - Line B - 2

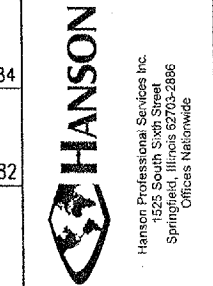


DATE	REVISION	BY

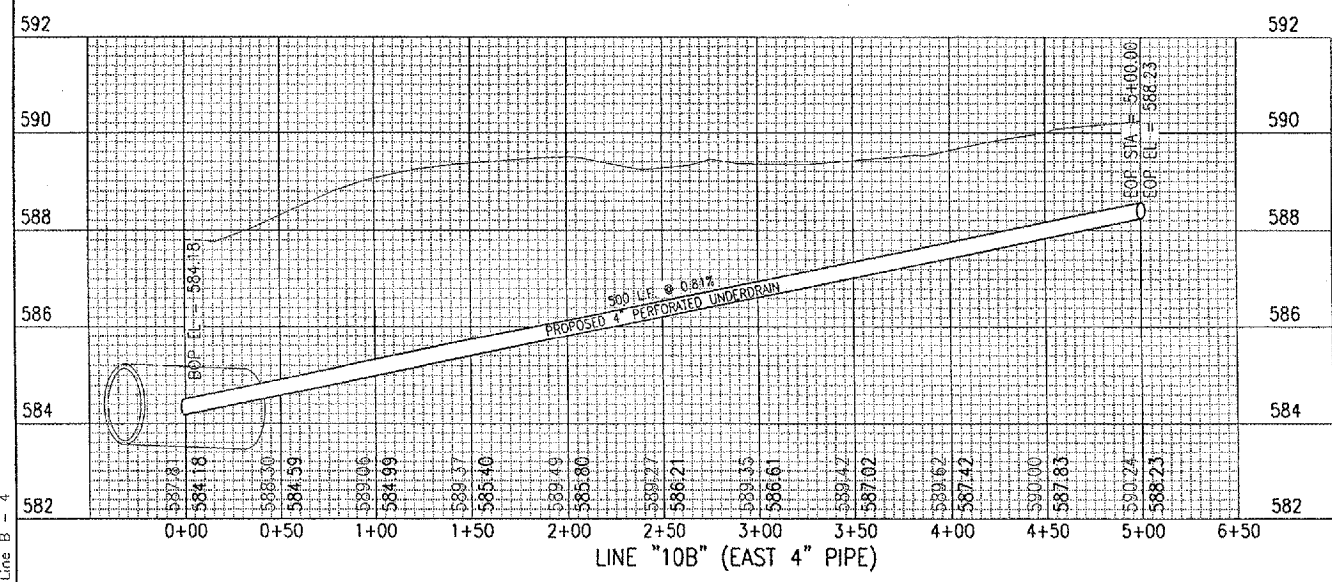
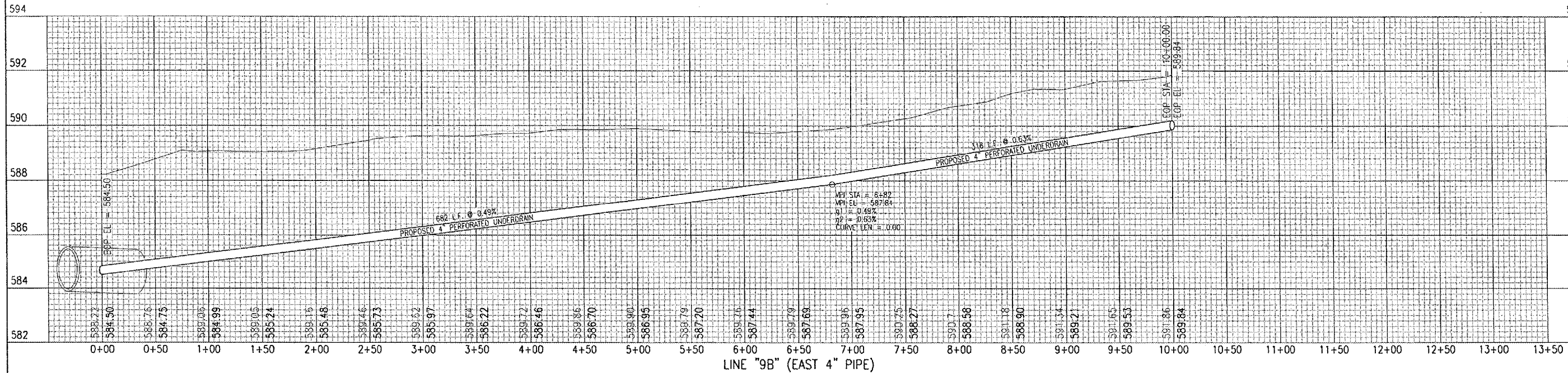
LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS

A.I.P. PROJ.: 3-17-0062-813
 I.L. PROJ.: AAA-3545

HE Project No. 813-060GND.0900	DATE 08/21/06
Drawings R-702-PROF.DWG	CCC 09/07/06
Scale 1" = 50'H./1" = 2'V.	CCC 10/31/06
Date 08/07/06	CAH
LAYOUT	
DRAWN	
REVIEWED	



DRAINAGE
 IMPROVEMENTS
 PROPOSED PIPE PROFILES
 LINE 7B & LINE 8B



DATE	REVISION	BY

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LINCOLN, ILLINOIS

IL PROJ.: AAA-3545 A.I.P. PROJ.: 3-17-0062-B13

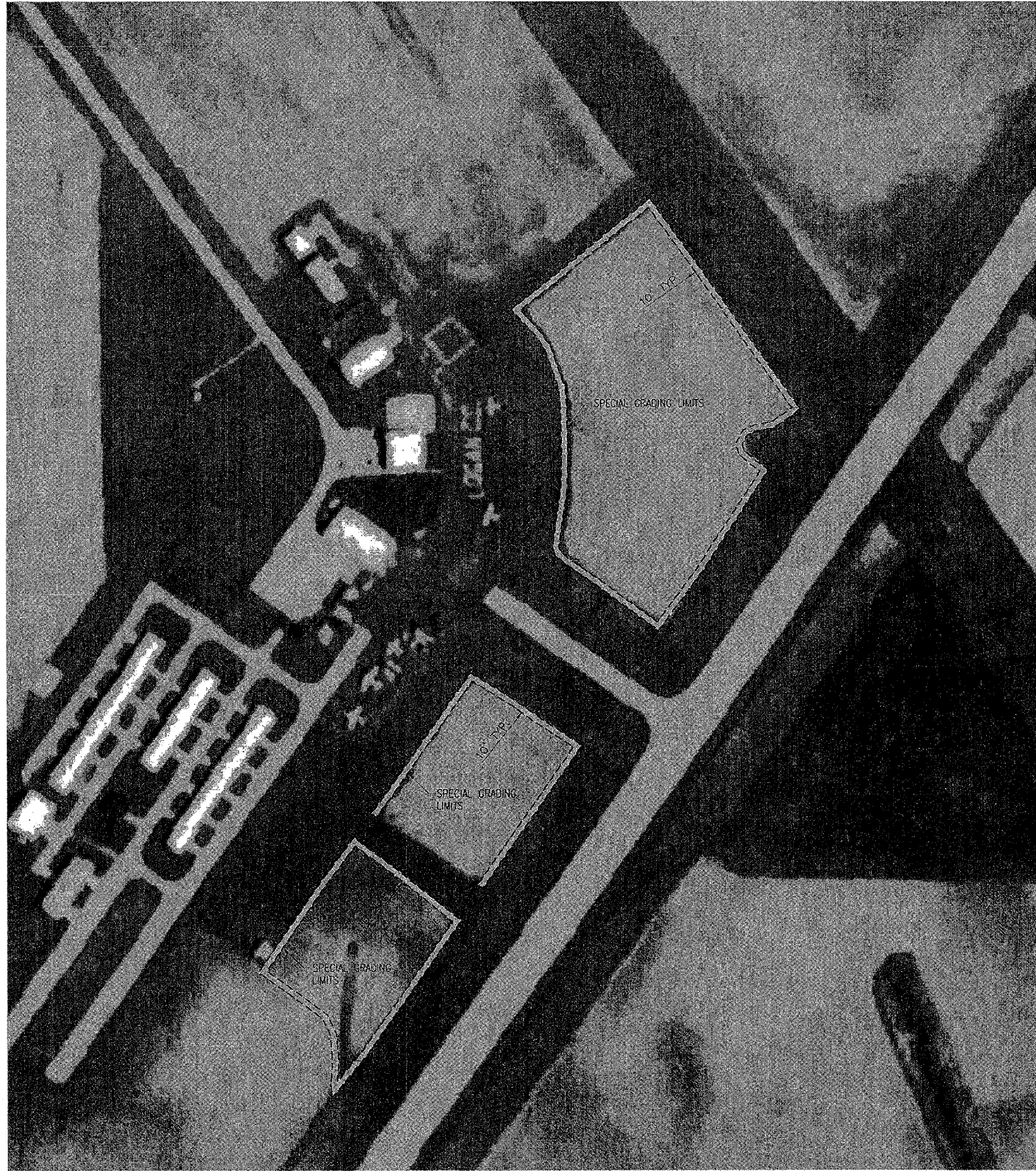
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PLAN No. R-702-PROF DWG	LAYOUT	CCC 08/21/06
Scale 1" = 50'H./1" = 2'.	DRAWN	CCC 09/07/06
Date	REVIEWED	CAH 10/31/06



DRAINAGE IMPROVEMENTS

PROPOSED PIPE PROFILES

LINE 9B & LINE 10B




SPECIAL GRADING NOTES

THE AREAS SHOWN ON THIS SHEET AS "SPECIAL GRADING" HAVE A RIDGE OF EARTH IN THE CENTER OF THE CORRIDORS. THIS RIDGE OF EARTH IS TO BE BLADED DOWN AND SPREAD OUT WITHIN THE 10' CORRIDORS WIDTH. THE CORRIDORS WILL BE SMOOTH GRADED TO A DRAINABLE CONDITION. THE SPECIAL GRADING AREAS WILL BE SEEDED IN ACCORDANCE TO ITEM "AR901510" AND MULCHED IN ACCORDANCE WITH ITEM "AR908510".

THE GRADING, SEEDING AND MULCHING ARE CONSIDERED INCIDENTAL TO THE "SPECIAL GRADING" PAY ITEM AND NO ADDITION COMPENSATION WILL BE ALLOW.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:
 AS800416 "SPECIAL GRADING" - 0.9 ACRES

LEGEND

 PROPOSED GRADING LIMITS

SPECIAL GRADING QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AS800416	SPECIAL GRADING	ACRE	0.9

LO025

DATE	REVISION	BY
12/22/06	REVISED AS PER IGA REVIEW	CAH

LOGAN COUNTY AIRPORT
 LINCOLN, ILLINOIS

IL. PROJ.: AAA-3545 A.I.P. PROJ.: 3-17-0062-B13

HD Project No. 813-060CONV.0800 Filename: R-191STK.DWG Scale: 10/30/06 Date: 10/30/06		LAYOUT DRAWN: CCC REVIEWED: CAH	10/30/06 10/30/06 10/31/06
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HANSON
 hanson Professional Services Inc.
 1625 South Sixth Street
 Springfield, Illinois 62703-2886
 Offices Nationwide

DRAINAGE IMPROVEMENTS
 SPECIAL GRADING AREAS

