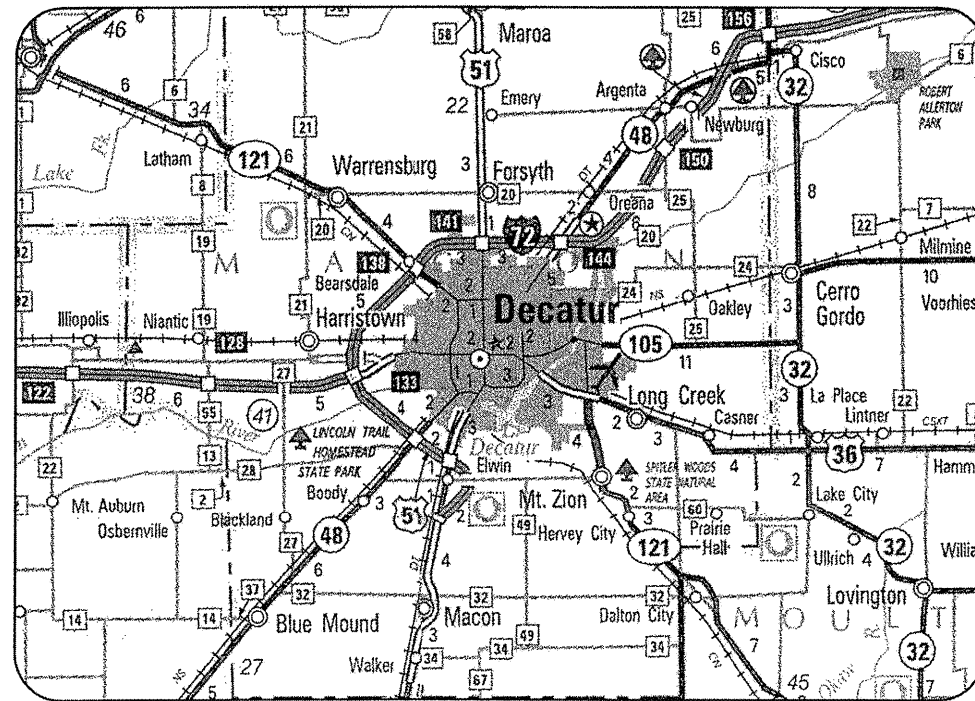


CONSTRUCTION PLANS FOR DECATUR AIRPORT DECATUR, MACON COUNTY, ILLINOIS INSTALL PERIMETER FENCING

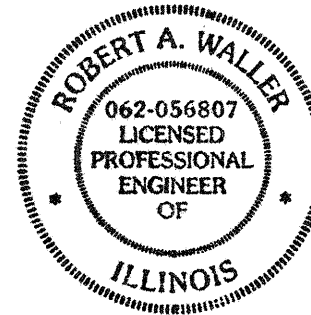
SCOPE OF WORK

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF 10-FOOT CLASS E (CHAIN LINK) FENCING ALONG THE SOUTH WEST, SOUTH, SOUTH EAST AND EAST PROPERTY LINES; INCLUDING THE INSTALLATION OF 32' WIDE CLASS E GATES. THE PROJECT INCLUDES THE REMOVAL OF THE EXISTING 4-FOOT CLASS C (WOVEN WIRE) AND E (CHAIN LINK) FENCE, AND REMOVAL OF EXISTING CLASS C GATES.

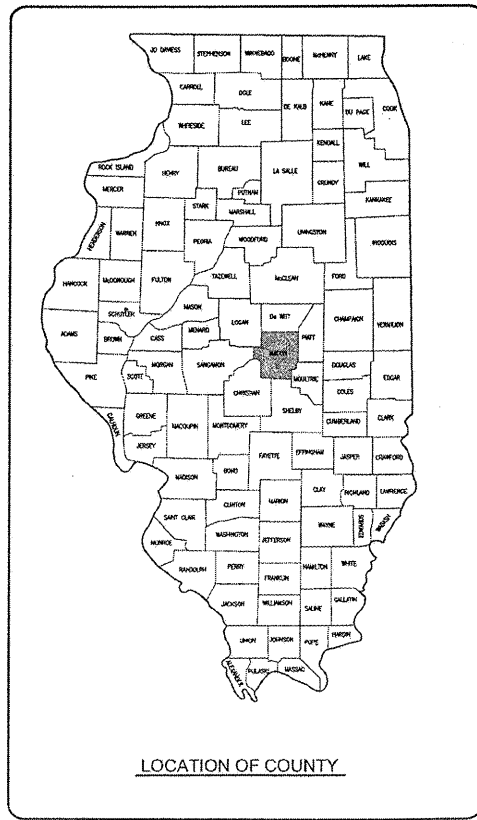


LOCATION

ILL. PROJ.: DEC-3837
A.I.P. PROJ.: 3-17-0033-XX
LATITUDE: 39° 50' 05"
LONGITUDE: 88° 51' 59"
ELEVATION: 682.0' M.S.L.
DATE: APRIL 16, 2010



HANSON
Hanson Professional Services Inc.
Submitted by: *[Signature]* ENG'R
Date Submitted: APRIL 16, 2010
Lic. Exp. Date: NOVEMBER 30, 2011



REVISION	DATE	BY

HANSON
DECATUR, ILLINOIS
ILL. PROJ.: DEC-3837
A.I.P. PROJ.: 3-17-0033-XX

ILL. Project No. 09A01780.0001	
Drawings: R-001CVR.DWG	
Scale: NOT TO SCALE	
Date: 01/13/10	
LAYOUT	CAH 01/13/10
DRAWN	BAK 01/13/10
REVIEWED	PAW 04/05/10

HANSON
Hanson Professional Services Inc.
1526 South Sixth Street
Springfield, IL 62766
Offices Nationwide

INSTALL PERIMETER FENCING
COVER SHEET

APR 27, 2010 3:31 PM WALLER00723
I:\AR\PROJECTS\DECATUR\09A01780\CADD\SHEETS\R-001CVR.DWG - COVER

DE072

DATE	REVISION	BY

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITIES	AS BUILT QUANTITIES
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1	
AR161900	REMOVE CLASS C FENCE	L.F.	20,568	
AR161910	REMOVE CLASS C GATE	EACH	8	
AR162510	CLASS E FENCE 10'	L.F.	21,753	
AR162632	CLASS E GATE - 32'	EACH	9	
AR162900	REMOVE CLASS E FENCE	L.F.	1,878	

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QUANTITIES AND INDEX TO SHEETS
3	PROPOSED SAFETY PLAN
4	EXISTING FENCE REMOVAL PLAN SHEET 1
5	EXISTING FENCE REMOVAL PLAN SHEET 2
6	EXISTING FENCE REMOVAL PLAN SHEET 3
7	EXISTING FENCE REMOVAL PLAN SHEET 4
8	PROPOSED FENCING PLAN SHEET 1
9	PROPOSED FENCING PLAN SHEET 2
10	PROPOSED FENCING PLAN SHEET 3
11	PROPOSED FENCING PLAN SHEET 4
12	PROPOSED FENCING DETAILS
13	PROPOSED FENCING DETAILS



DECATUR, ILLINOIS

NET Project No. 09A01780_0001	01/13/10
Filename R-02FLP.DWG	01/13/10
Scale NOT TO SCALE	01/13/10
Date 01/13/10	04/05/10
LAYOUT CAH	RAW
DRAWN BHK	RAW
REVIEWED	RAW



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

INSTALL PERIMETER FENCING
 SUMMARY OF QUANTITIES AND INDEX TO SHEETS

2

2 of 13 sheets

IL PROJ.: DEC-3837 A.I.P. PROJ.: 3-17-0033-XX

SCOPE OF WORK

THIS PROJECT CONSISTS OF CONSTRUCTION OF 10-FOOT CLASS E (CHAIN LINK) FENCING AND GATES ALONG THE SOUTHWEST, SOUTH AND SOUTHEAST PROPERTY LINES. PROJECT INCLUDES THE REMOVAL OF THE EXISTING PERIMETER FENCING AND GATES.

HEIGHT OF CONSTRUCTION EQUIPMENT

THE MAXIMUM ANTICIPATED HEIGHT OF THE CONSTRUCTION EQUIPMENT WILL BE 15 FEET. THE TALLEST EQUIPMENT IS EXPECTED TO BE A CONCRETE TRUCK.

EQUIPMENT PARKING AND STORAGE AREA

THE CONTRACTOR WILL USE THE DESIGNATED EQUIPMENT PARKING AND STORAGE AREAS AS SHOWN. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE PROPOSED EQUIPMENT PARKING AND STORAGE AREAS 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 RESTORE THE EQUIPMENT PARKING AND STORAGE AREAS TO THEIR ORIGINAL STATE. RESTORATION OF THE EQUIPMENT PARKING AND STORAGE AREAS WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

CONTRACTOR RESPONSIBILITIES

THE CONTRACTOR'S EMPLOYEES WILL PARK THEIR PERSONAL VEHICLES IN THE AREA DESIGNATED FOR THEM. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO TRANSPORT HIS PERSONNEL FROM THIS PARKING AREA TO THE AREA WHERE HE IS WORKING. THE CONTRACTOR AND HIS EMPLOYEES WILL BE RESTRICTED TO THE WORK AREA AND ALL OTHER AREAS OF THE AIRPORT ARE "OFF LIMITS" TO THEM.

UTILITY NOTE

THE LOCATION, SIZE, AND TYPE OF MATERIAL OF EXISTING UNDERGROUND AND/OR ABOVEGROUND UTILITIES INDICATED ON THE PLANS ARE NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATEVER IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE OWNER'S REPRESENTATIVE AND/OR THE RESIDENT ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY DAMAGE TO SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. ALL UTILITY CABLES AND LINES SHALL BE LOCATED BY THE RESPECTIVE UTILITY. **CONTACT JULIE (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS) FOR UTILITY INFORMATION, PHONE: 1-800-892-0123.** CONTACT THE FAA (FEDERAL AVIATION ADMINISTRATION) FOR ASSISTANCE IN LOCATING FAA CABLES AND UTILITIES. LOCATION OF FAA POWER, CONTROL, AND COMMUNICATION CABLES SHALL BE COORDINATED WITH AND/OR LOCATED BY THE FAA. ALSO CONTACT AIRPORT DIRECTOR/MANAGER AND AIRPORT PERSONNEL FOR ASSISTANCE IN LOCATING UNDERGROUND AIRPORT CABLES AND/OR UTILITIES. ALSO COORDINATE WORK WITH ALL ABOVEGROUND UTILITIES.

150-ENGINEER'S FIELD OFFICE NOTES

THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE FURNISHED, MAINTAINED, AND REMOVED IN ACCORDANCE WITH ITEM AR150510 "ENGINEER'S FIELD OFFICE" AS STATED ON PAGE 49 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS ADOPTED NOVEMBER 02, 2009.






THE LOCATION OF THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE DETERMINED AT THE PRE-CONSTRUCTION MEETING.

THE ENGINEERING FIRM WILL MAKE PAYMENT FOR ALL LONG DISTANCE TELEPHONE CALLS IN EXCESS OF ONE HUNDRED DOLLARS (\$100.00) PER MONTH.

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

THE PROPOSED ENGINEER'S FIELD OFFICE INCLUDING THE CELL PHONE WILL BE PAID FOR UNDER ITEM:
AR150510 ENGINEER'S FIELD OFFICE _____ 1 L.S.

LEGEND

	EXISTING IMPROVEMENTS
	EXISTING BUILDINGS
	EXISTING FENCE
	PROPOSED FENCE
	PROPOSED CONTROL POINT

J.U.L.I.E. INFORMATION
 COUNTY _____ MACON
 CITY _____ DECATUR
 TOWNSHIP _____ LONG CREEK
 SECTION NO. _____ 20 & 21
 ADDRESS _____ DECATUR AIRPORT
 AIRPORT ROAD
 DECATUR, ILLINOIS 62524

CRITICAL POINT DATA

NO. 1	LATITUDE: 39° 49' 22.18"
	LONGITUDE: 88° 52' 40.87"
	ELEVATION: 675.00' M.S.L.
NO. 2	LATITUDE: 39° 49' 48.53"
	LONGITUDE: 88° 51' 17.49"
	ELEVATION: 676.00' M.S.L.
NO. 3	LATITUDE: 39° 50' 18.83"
	LONGITUDE: 88° 50' 44.15"
	ELEVATION: 681.00' M.S.L.

PROPOSED SAFETY PLAN

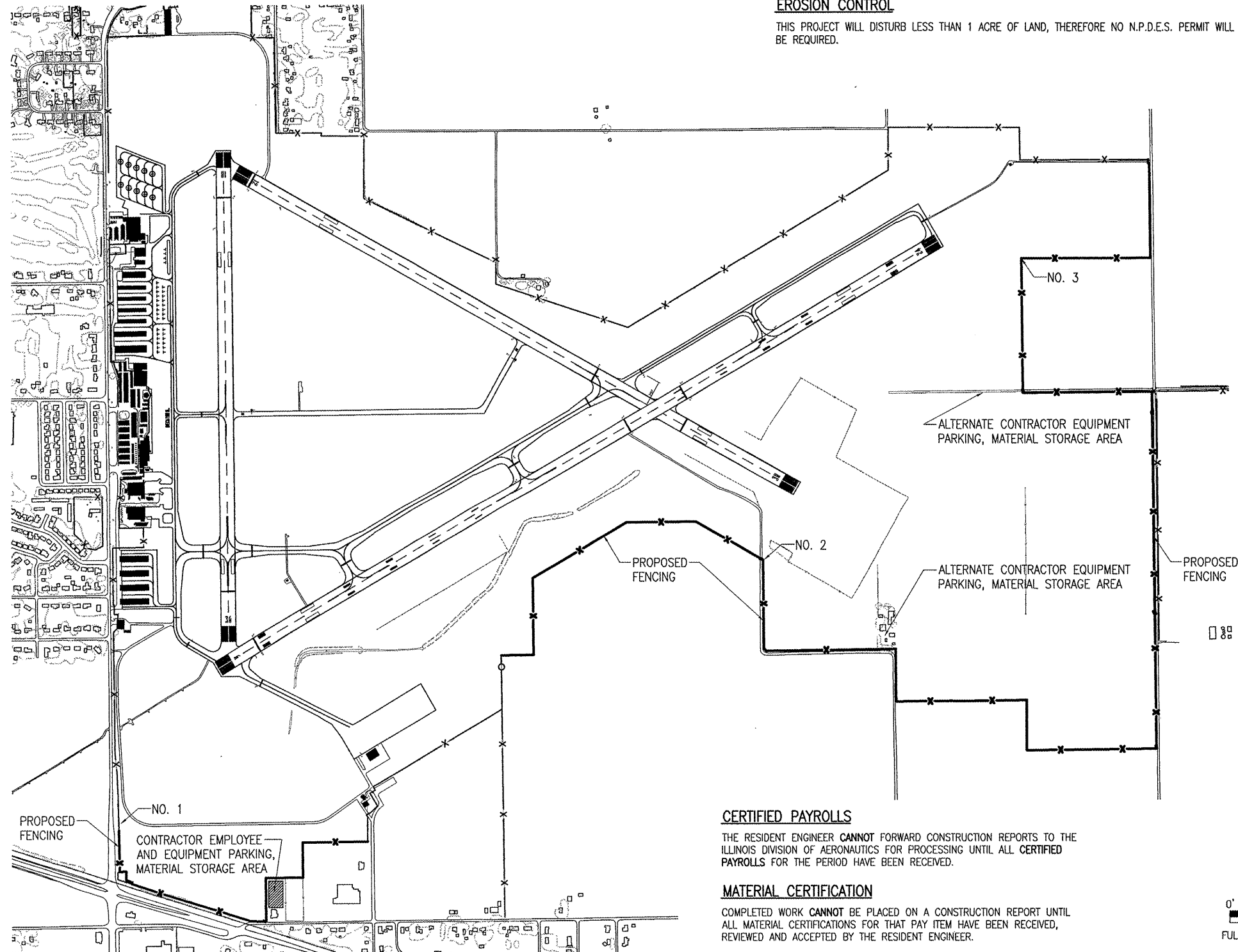
GENERAL - THE DECATUR AIRPORT IS COMPRISED OF THREE RUNWAYS. THE PROPOSED CONSTRUCTION WILL NOT NECESSITATE CLOSING ANY RUNWAYS, TAXIWAYS OR APRONS.

IDENTIFICATION - WHEN THE CONTRACTORS VEHICLES AND EQUIPMENT ARE ON THE AIRFIELD SIDE OF THE PERIMETER FENCE, 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 (121.75 MHz.) WITH GROUND CONTROL. THIS WILL KEEP THE CONTRACTOR IN CONSTANT CONTACT WITH THE DECATUR AIRPORT CONTROL TOWER AND ENABLE THE AIRPORT TO IMMEDIATELY CONTACT THE CONTRACTOR IN CASE OF AN AERONAUTIC EMERGENCY THAT WOULD REQUIRE ACTION BY THE CONTRACTOR AND/OR HIS PERSONNEL.

EROSION CONTROL

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



CERTIFIED PAYROLLS

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

MATERIAL CERTIFICATION

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

DE072

DATE	REVISION	BY

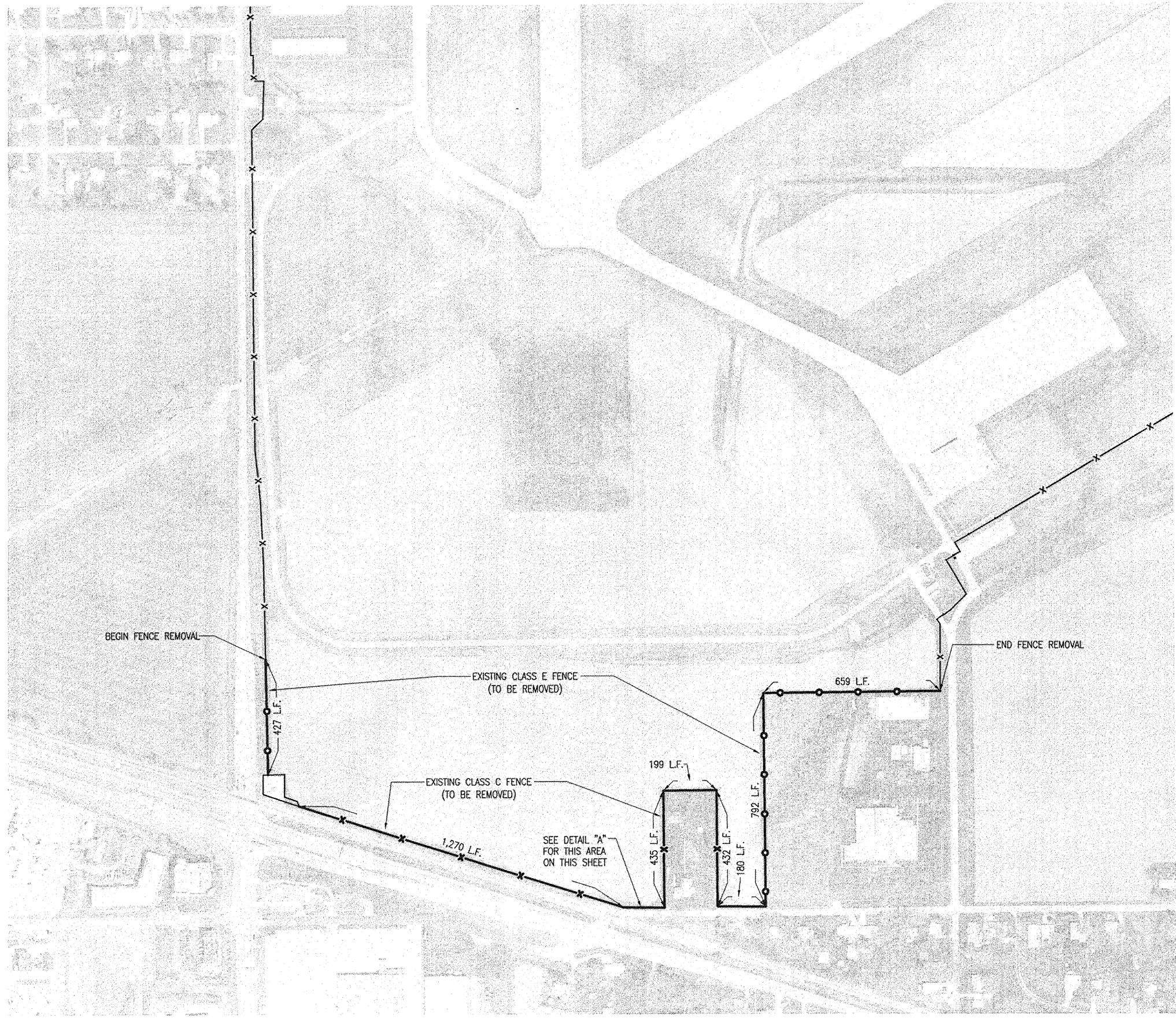


IL Project No. 09A01780.0001	CH	03/01/10
Estimate: R-0035FY.DWG	BAK	03/07/10
Scale: 1" = 600'	RAW	04/05/10
Date: 03/01/10		

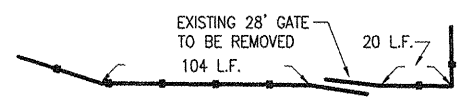


REPLACE PERIMETER FENCING

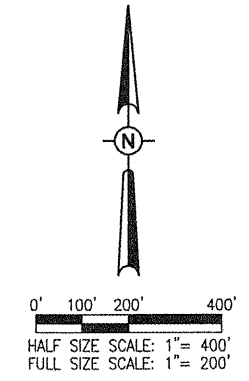
PROPOSED SAFETY PLAN



- LEGEND**
- x — EXISTING FENCE (TO REMAIN IN PLACE)
 - x — EXISTING CLASS C FENCE (TO BE REMOVED)
 - o — EXISTING CLASS E FENCE (TO BE REMOVED)



DETAIL "A"
 "NOT TO SCALE"



DE072

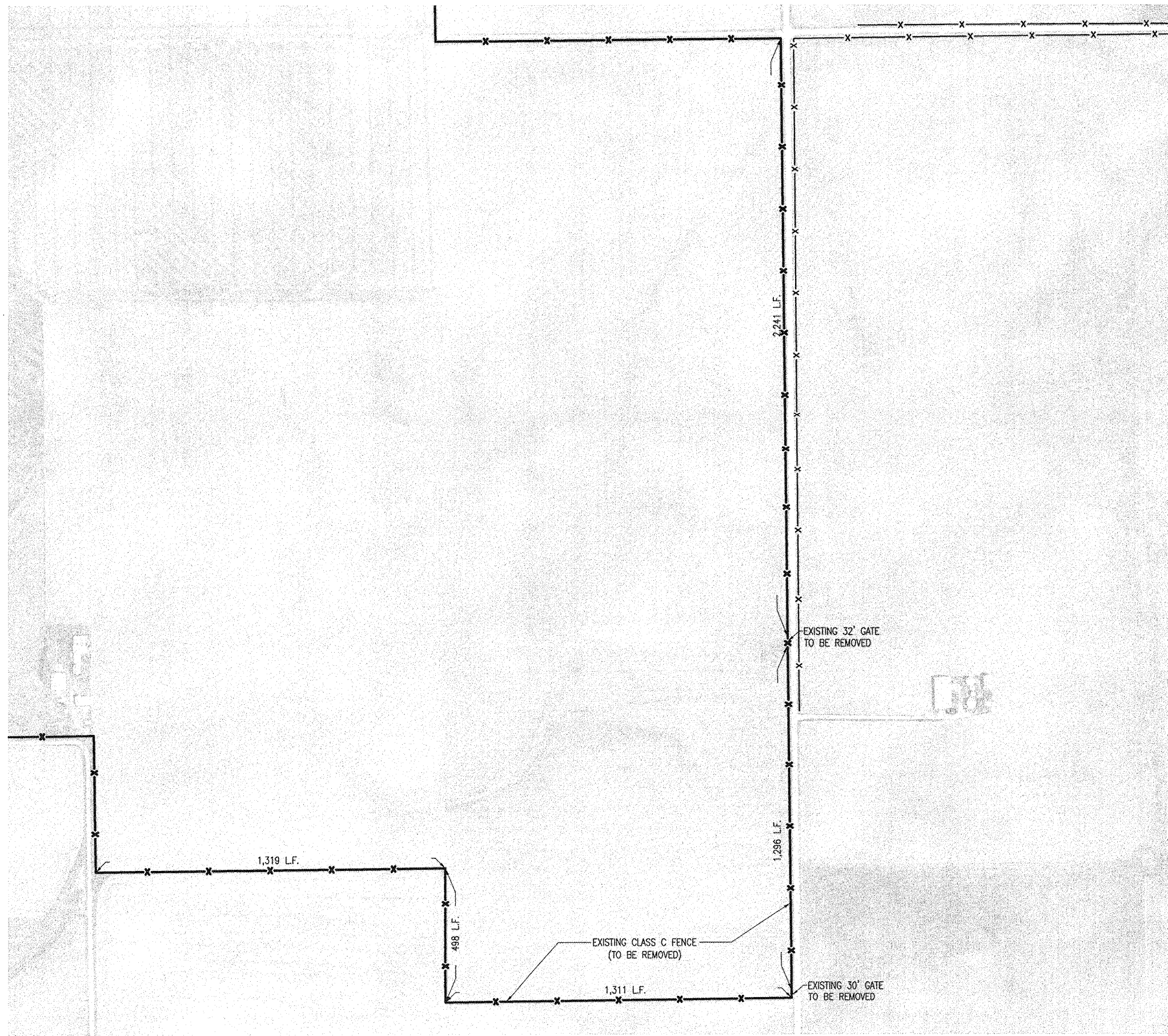
DATE	REVISION	BY

DECATUR AIRPORT
 DECATUR, ILLINOIS

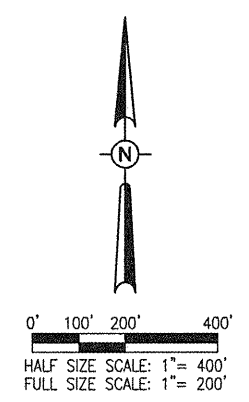
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Filename	R-17\FEN.DWG
Scale	1" = 200'
Date	02/26/10
LAYOUT	CAH 02/26/10
DRAWN	CAH 02/26/10
REVIEWED	RAW 04/05/10

HANSON
 Hanson Professional Services Inc.
 1525 South Sixth Street
 Springfield, Illinois 62763-2886
 Offices Nationwide

REPLACE PERIMETER FENCING
 EXISTING FENCE REMOVAL PLAN
 SHEET 1

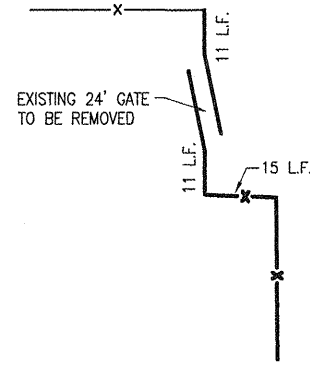
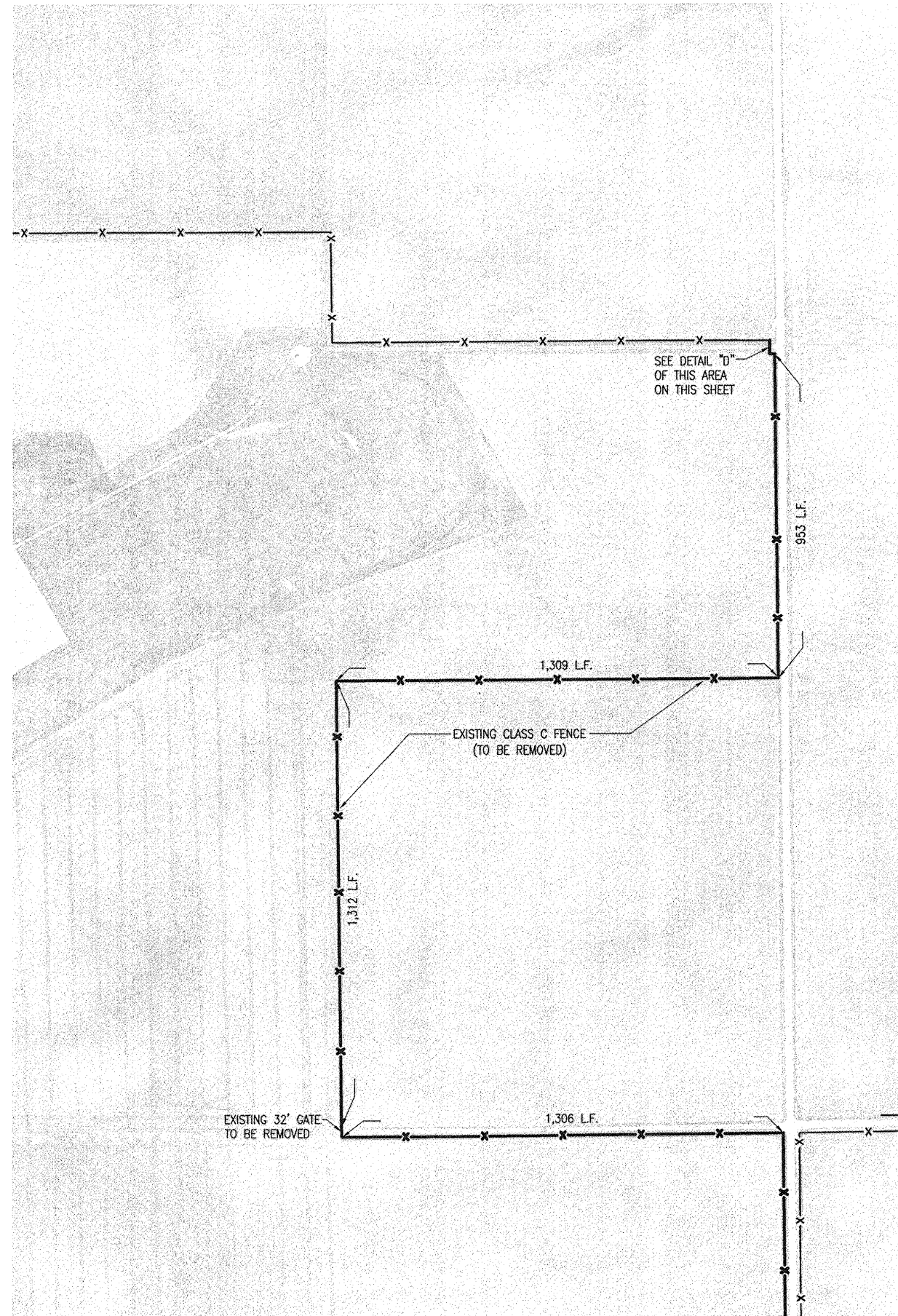


LEGEND
 — x — EXISTING FENCE (TO REMAIN IN PLACE)
 — x — EXISTING CLASS C FENCE (TO BE REMOVED)



DE072

<p>Hanson Professional Services Inc. 1525 Scuppernon Street, Suite 200 Springdale, AR 72762-2886 Offices Nationwide</p>		HEL Project No. 09A01780_0001 Filename: R-17\FEN.DWG Scale: 1" = 200' Date: 02/26/10		IL. PROJ.: DEC-3837 A.I.P. PROJ.: 3-17-0033-XX	
REPLACE PERIMETER FENCING		EXISTING FENCE REMOVAL PLAN SHEET 3		DATE REVISION BY	
6		6 of 13 sheets		02/26/10 CAH 02/26/10 CAH 04/05/10 RAW	



DETAIL "D"
 "NOT TO SCALE"

LEGEND

- x — EXISTING FENCE (TO REMAIN IN PLACE)
- x — EXISTING CLASS C FENCE (TO BE REMOVED)

FENCING REMOVAL NOTES

THE EXISTING FENCE TO BE REMOVED CONSISTS OF 4' CLASS E (CHAIN LINK) AND 4' CLASS C (WOVEN WIRE). THE CONTRACTOR WILL TURN OVER TO THE AIRPORT THE FENCE FABRIC THAT IS REMOVED. IF THE AIRPORT DOES NOT WANT THE FABRIC, THE CONTRACTOR WILL DISPOSE OF THE FENCE MATERIAL OFF THE AIRPORT PROPERTY.

THE REMOVAL OF SHRUBS, SMALL TREES, STUMPS, LOGS, ETC. THAT ARE IN THE EXISTING FENCE LINE WILL BE REMOVED AND DISPOSED OF OFF THE AIRPORT PROPERTY. THIS REMOVAL AND DISPOSAL WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE FENCE REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE HOLES LEFT FROM THE PROPOSED REMOVAL WILL BE FILLED WITH EARTH MATERIAL EITHER OBTAINED FROM THE INSTALLATION OF THE PROPOSED FENCE OR FROM AN APPROVED OFF SITE BORROW AREA. THE EARTH MATERIAL WILL BE COMPACTED TO INSURE NO FUTURE SETTLEMENT. THE EARTH MATERIAL WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE FENCE REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE REMOVAL AND DISPOSAL OF THE EXISTING FENCE SHALL BE PAID FOR UNDER ITEM:

- AR161900 REMOVE CLASS C FENCE, PER LIN. FT.
- AR162900 REMOVE CLASS E FENCE, PER LIN. FT.

GATE REMOVAL NOTES

THE EXISTING GATES DESIGNATED TO BE REMOVED ARE 4' CLASS C (WOVEN WIRE) GATES. THE GATES VARY IN SIZE FROM 24' TO 32' IN LENGTH. THE CONTRACTOR IS REQUIRED TO REMOVE AND DISPOSE OF THESE GATES OFF THE AIRPORT PROPERTY.

THE HOLES LEFT FROM THE PROPOSED GATE REMOVAL WILL BE FILLED WITH EARTH MATERIAL EITHER OBTAINED FROM THE INSTALLATION OF THE PROPOSED FENCE OR FROM AN APPROVED OFF SITE BORROW AREA. THE EARTH MATERIAL WILL BE COMPACTED TO INSURE NO FUTURE SETTLEMENT. THE EARTH MATERIAL WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE GATE REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

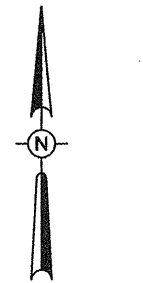
THE REMOVAL AND DISPOSAL OF THE DESIGNATED GATES WILL BE PAID FOR UNDER ITEM:

- AR161910 REMOVE CLASS C GATE, PER EACH

GATE REMOVAL NOTES

MINOR EARTHWORK GRADING MY BE NECESSARY TO ESTABLISH ADEQUATE CLEARANCE FOR THE PROPOSED FENCE. THE EARTHWORK WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE PROPOSED FENCE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

FENCE REMOVAL QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR161900	REMOVE CLASS C FENCE	L.F.	20,568
AR161910	REMOVE CLASS C GATE	EACH	8
AR162900	REMOVE CLASS E FENCE	L.F.	1,878



0' 100' 200' 400'
 HALF SIZE SCALE: 1" = 400'
 FULL SIZE SCALE: 1" = 200'

DE072

DATE	REVISION	BY



DECATUR, ILLINOIS

IL PROJ.: DEC-3837 A.I.P. PROJ.: 3-17-0633-XX

HEL Project No. 09A01780_0001	CAH	02/26/10
Element: R-171FEN.DWG	CAH	02/26/10
Scale: 1" = 200'	RAW	04/05/10
Date: 02/26/10		
LAYOUT		
DRAWN		
REVIEWED		

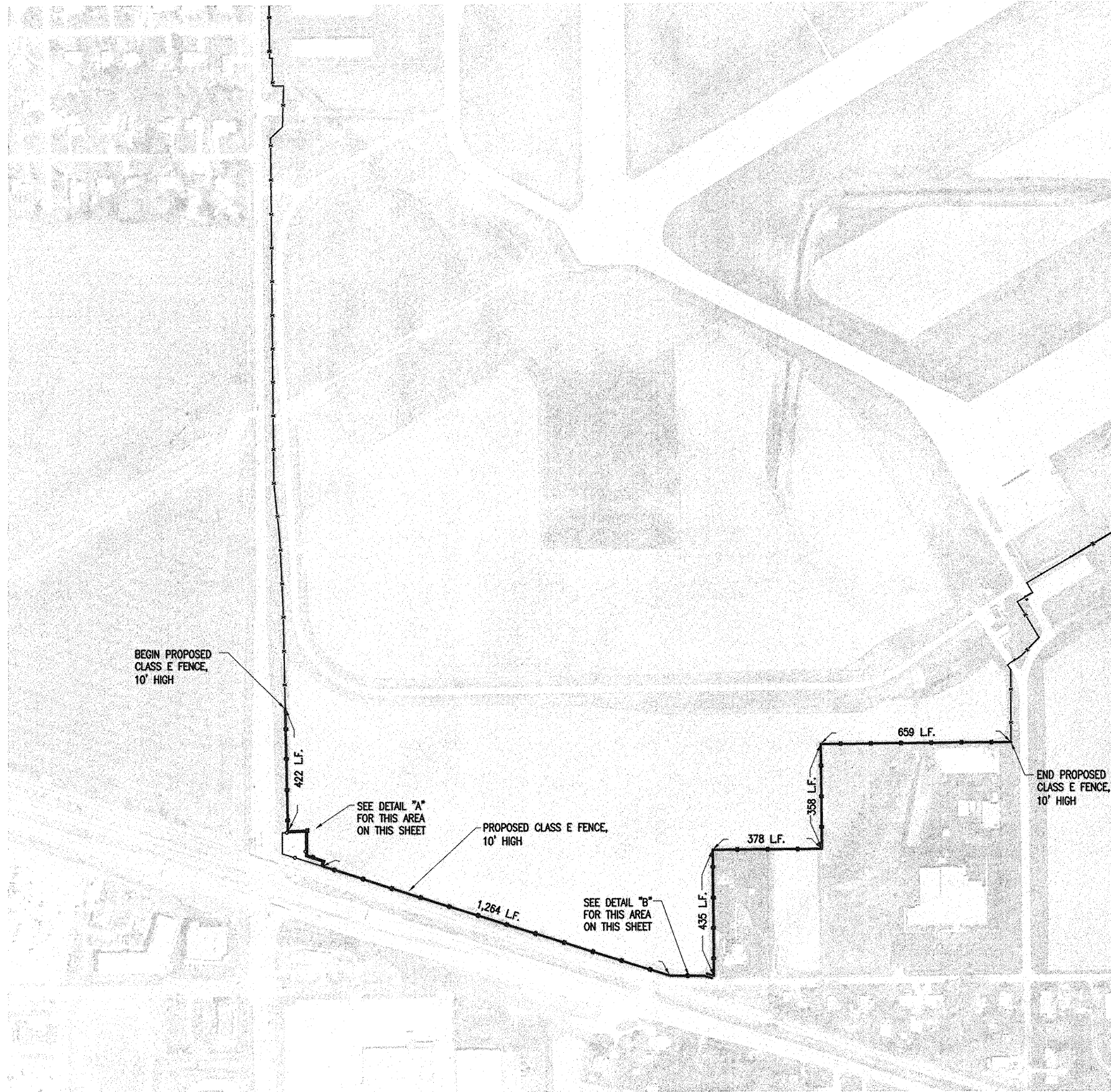


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 625 South College Ave.
 Springfield, Illinois 62703-2886
 Offices Nationwide

REPLACE PERIMETER FENCING

EXISTING FENCE REMOVAL PLAN
 SHEET 4

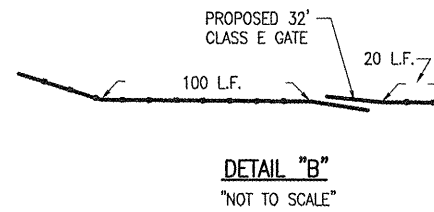
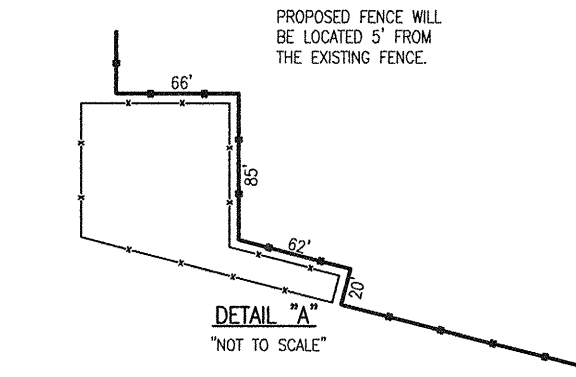
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LEGEND

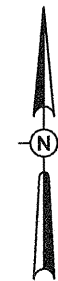
- x — EXISTING FENCE
- x — PROPOSED CLASS E FENCE, 10' HIGH

DE072



FENCE IN/THROUGH AGRICULTURAL AREAS

IN AREAS WHERE PROPOSED FENCE WILL BISECT PROPERTY CURRENTLY UTILIZED FOR AGRICULTURAL OPERATIONS (FARM FIELDS) THE AREA FROM THE FENCE TO 10' EACH SIDE OF THE FENCE WILL BE SEEDED AND MULCHED IN ACCORDANCE WITH ITEMS 901 AND 908, RESPECTIVELY. THE SEEDING AND MULCHING OF THESE AREAS, INCLUDING ALL EQUIPMENT, LABOR, AND MATERIAL SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE PROPOSED FENCE AND NO ADDITIONAL COMPENSATION ALLOWED.



0' 100' 200' 400'
 HALF SIZE SCALE: 1" = 400'
 FULL SIZE SCALE: 1" = 200'

DATE	REVISION	BY



IL PROJ.: DEC-3837 A.I.P. PROJ.: 3-17-0033-XX

IL Project No. 09A01780.0001	03/01/10
Element: R-172FEN.DWG	CAH
Scale: 1" = 200'	CAH
Date: 03/01/10	RAW
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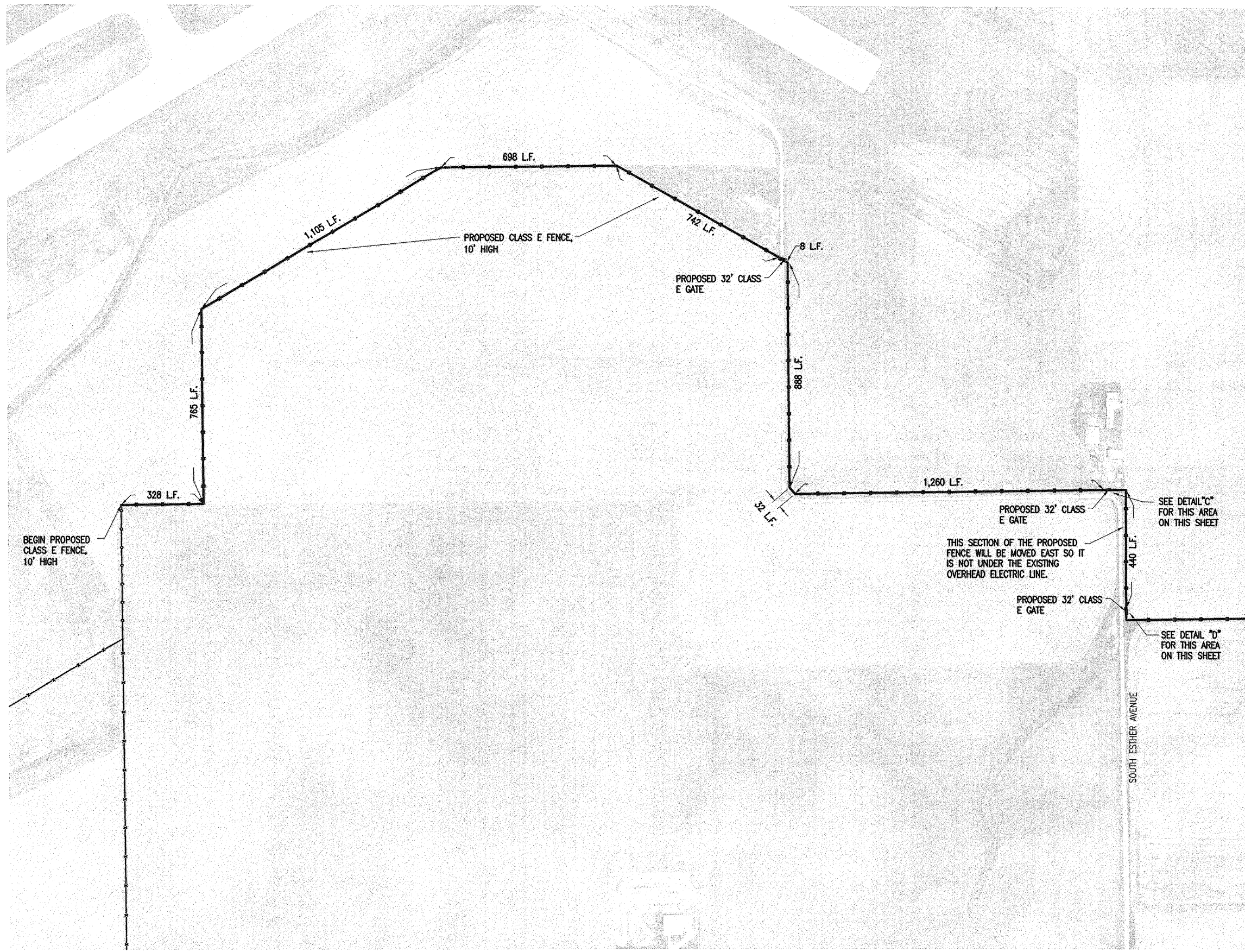
Hanson Professional Services Inc.
 1525 South Sixth Street
 Springfield, IL 62761-2886
 Offices Nationwide

REPLACE PERIMETER FENCING

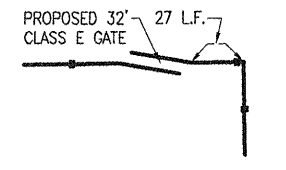
PROPOSED FENCING PLAN
 SHEET 1

8

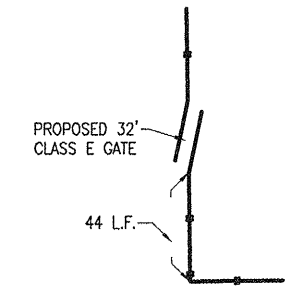
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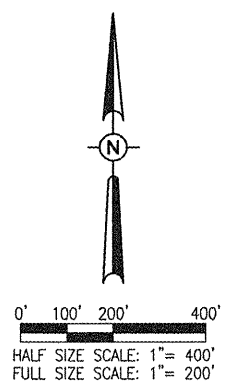
LEGEND
 — x — EXISTING FENCE
 — x — PROPOSED CLASS E FENCE, 10' HIGH



DETAIL "C"
 "NOT TO SCALE"



DETAIL "D"
 "NOT TO SCALE"



DE072

DATE	REVISION	BY

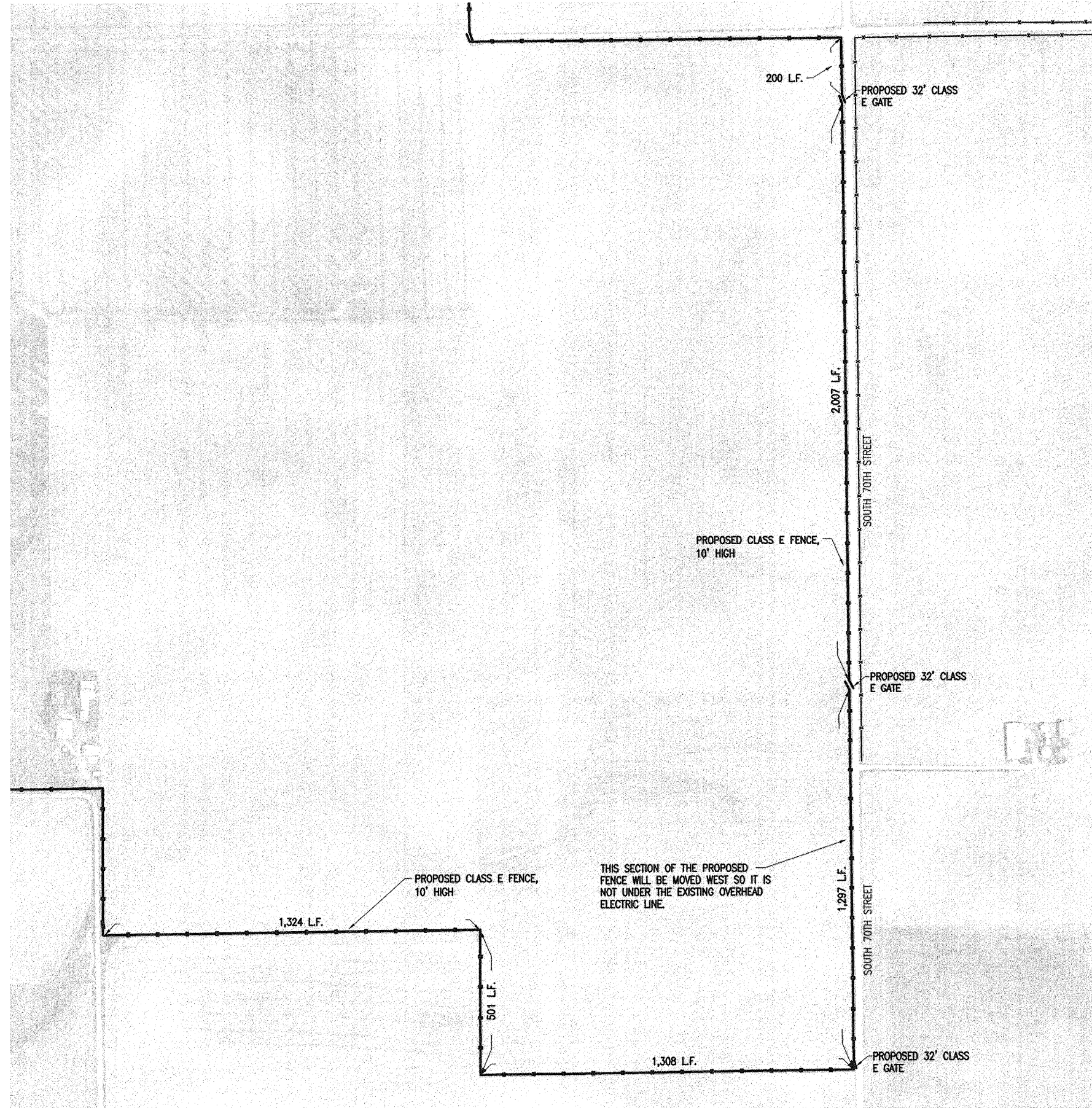


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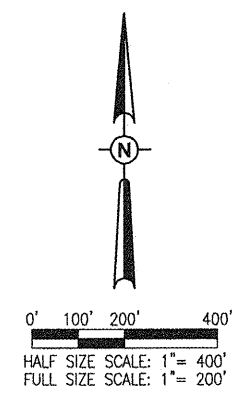
HEL Project No. 09A0178D_0001	03/01/10
Filename R-172FEN.DWG	CAH
Scale 1" = 200'	CAH
Date 03/01/10	RAW
LAYOUT	
DRAWN	
REVIEWED	



REPLACE PERIMETER FENCING
 PROPOSED FENCING PLAN
 SHEET 2



LEGEND
 -x- EXISTING FENCE
 -x- PROPOSED CLASS E FENCE, 10' HIGH



DE072

DATE	REVISION	BY



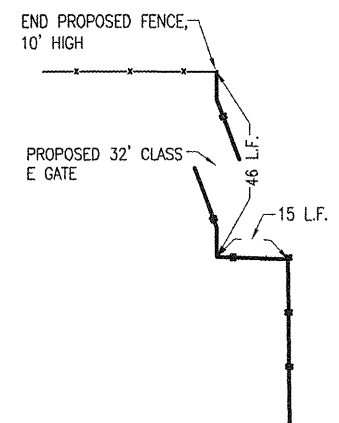
IL PROJ.: DEC-3837 A.I.P. PROJ.: 3-17-0033-XX

HG Project No. 09A0178D_0001 Filename: R-172FEN.DWG Scale: 1" = 200' Date: 03/01/10	<table border="1"> <tr> <td>LAYOUT</td> <td>CAH</td> <td>03/01/10</td> </tr> <tr> <td>DRAWN</td> <td>CAH</td> <td>03/01/10</td> </tr> <tr> <td>REVIEWED</td> <td>RAW</td> <td>04/05/10</td> </tr> </table>	LAYOUT	CAH	03/01/10	DRAWN	CAH	03/01/10	REVIEWED	RAW	04/05/10
LAYOUT	CAH	03/01/10								
DRAWN	CAH	03/01/10								
REVIEWED	RAW	04/05/10								



REPLACE PERIMETER FENCING
 PROPOSED FENCING PLAN
 SHEET 3

APR 27, 2010 8:14 AM KINCA00394
 L:\AIRPORTS\DECATUR\09A0178D\CADD\SHEETS\R-172FEN.DWG - SHEET 4



DETAIL "E"
 "NOT TO SCALE"

FENCE INSTALLATION NOTES

THE PROPOSED FENCE SHALL BE A 10 FOOT CLASS E FENCE (CHAIN LINK) WITH THREE STRANDS OF BARB WIRE. THIS WORK WILL INCLUDE THE INSTALLATION OF DRIVE GATES. THE PROPOSED FENCE AND GATES SHALL MEET THE REQUIREMENTS PROVIDED IN THE SPECIAL PROVISIONS.

A TOP RAIL WILL NOT BE REQUIRED ON THIS PROJECT.

THE CONTRACTOR WILL NOT BE REQUIRED TO REMOVE THE EXISTING FENCE IN A MANNER THAT WILL NOT COMPROMISE THE PERIMETER SECURITY. THE CONTRACTOR WILL LIMIT THE AMOUNT OF EXISTING FENCE REMOVED TO THE LENGTH HE CAN REPLACE WITH NEW CLASS E FENCE BY THE END OF THE WORK WEEK. REMOVED GATES WILL BE BARRICADED TO DENY ACCESS UNTIL THE PROPOSED GATE IS INSTALLED.

WHEN THE PROPOSED FENCE INSTALLATION WILL PLACE THE PROPOSED FENCE UNDER AN OVERHEAD ELECTRIC LINE, THE ALIGNMENT OF THE PROPOSED FENCE WILL BE SHIFTED TO ELIMINATE THIS SITUATION. THERE ARE TWO LOCATIONS WHERE THIS WILL HAPPEN. THOSE TWO SECTIONS OF FENCE ARE LOCATED ALONG SOUTH ESTHER AVENUE AND SOUTH 70TH STREET. BOTH LOCATIONS ARE DELINEATED ON THESE CONSTRUCTION SHEETS.

EXISTING UTILITY LOCATION NOTES

NONE OF THE EXISTING UTILITIES LOCATED ALONG THE PROPOSED ALIGNMENT HAVE BEEN SHOWN. THE CONTRACTOR MUST CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO INSTALLING ANY PROPOSED FENCING. ANY EXISTING UTILITY DAMAGED BY THE CONTRACTOR WILL BE REPAIRED TO THE SATISFACTION OF THE UTILITY OWNER. THE REPAIRS WILL BE MADE AT THE CONTRACTOR'S OWN EXPENSE.

SEEDING AND MULCHING

ALL AREAS ALONG THE PROPOSED FENCE ALIGNMENT DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE SEEDING IN ACCORDANCE WITH THE SPECIAL PROVISIONS. PROPOSED SEEDING WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE PROPOSED FENCING.

LEGEND
 — x — EXISTING FENCE
 — x — PROPOSED CLASS E FENCE, 10' HIGH

DE072

DATE	REVISION	BY



DECATUR, ILLINOIS

A.I.P. PROJ.: 3-17-0033-XX
 I.L. PROJ.: DEC-3837

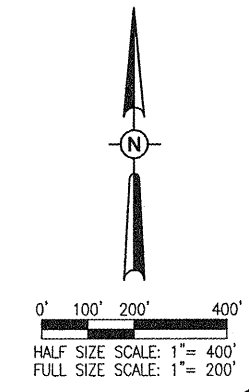
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R-172FEN.DWG	03/01/10	CAH	CAH	RAW



Hanson Professional Services Inc.
 1525 South Sixth Street
 Springfield, Illinois 62705-2886
 Offices Nationwide

REPLACE PERIMETER FENCING
 PROPOSED FENCING PLAN
 SHEET 4

PROPOSED FENCE QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR162510	CLASS E FENCE 10'	L.F.	21,253
AR162632	CLASS E GATE - 32'	EACH	9



GENERAL NOTES

FABRIC - THE FABRIC MAY BE WOVEN WITH EITHER ZINC COATED STEEL WIRE OR ALUMINUM-ALLOY WIRE IN A 2-INCH MESH. COATED WIRE AND ALUMINUM-ALLOY SHALL HAVE A DIAMETER OF 0.148 INCHES. THE FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS: (1) ZINC-COATED STEEL FABRIC SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 181, TYPE 1, CLASS D. (2) ALUMINUM-COATED STEEL FABRIC SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 181 TYPE II. THE UNIT WEIGHT OF THE COATING SHALL BE DETERMINED IN ACCORDANCE WITH AASHTO T 213. THE ALUMINUM-COATED STEEL FABRIC SHALL BE GIVEN A CLEAR ORGANIC COATING AFTER FABRICATION. (3) ALUMINUM-ALLOY FABRIC SHALL BE MADE FROM WIRE CONFORMING TO THE REQUIREMENTS OF AASHTO M 181 TYPE III.

METAL POSTS - METAL POSTS (LINE, CORNER, END, PULL AND GATE POSTS) SHALL BE THE SHAPES, DIMENSIONS, AND WEIGHT SHOWN IN THE TABLES. (1) STEEL PIPE, TYPE A, SHALL BE HOT-DIPPED GALVANIZED CONFORMING TO THE REQUIREMENTS OF ASTM F 1083. (2) STEEL PIPE, TYPE B, SHALL BE MANUFACTURED FROM COLD ROLLED ELECTRIC RESISTANCE WELDED, HEATED AND TEMPERED STEEL. THE STEEL STRIP USED IN THE MANUFACTURE OF THE PIPE SHALL CONFORM TO ASTM A 569 OR ASTM A 607. THE WALL THICKNESS SHALL NOT BE LESS THAN THAT SHOWN IN THE TABLE. THE PRODUCT OF THE YIELD STRENGTH AND SECTION MODULUS OF THE PIPE SHALL NOT BE LESS THAN THAT OF THE PIPE MEETING THE REQUIREMENTS OF ASTM F 1083. (3) STEEL PIPE, TYPE C, SHALL BE MANUFACTURED BY ROLLED FORMING ALUMINIZED STEEL TYPE 2 STRIP AND ELECTRIC RESISTANCE WELDING INTO TUBULAR FORM. THE OUTSIDE OF THE WELD AREA SHALL BE METALLIZED WITH COMMERCIAL PURE ALUMINUM TO A THICKNESS SUFFICIENT TO PROVIDE RESISTANCE TO CORROSION EQUAL TO THAT OF THE REMAINDER OF THE OUTSIDE OF THE TUBE. THE ALUMINUM COATING WEIGHT SHALL BE A MINIMUM OF 0.75 OUNCES PER SQUARE FOOT, TRIPLE SPOT TEST, 0.70 OUNCES PER SQUARE FOOT SINGLE SPOT TEST, AS MEASURED IN ACCORDANCE WITH ASTM A 428. THE STEEL STRIP USED IN THE MANUFACTURE OF THE PIPE SHALL CONFORM TO ASTM A 787 TYPE 1 AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 50,000 P.S.I. THE WEIGHT OF THE PIPE SHALL NOT BE LESS THAN THAT SHOWN ON THE PLANS AND THE PRODUCT OF THE YIELD STRENGTH AND SECTION MODULUS OF THE PIPE SHALL NOT BE LESS THAN THAT OF PIPE MEETING THE REQUIREMENTS OF ASTM A 120. (4) STRUCTURAL SHAPES SHALL BE FABRICATED FROM STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M 281, GRADES A OR B. ROLLED FORMED SECTIONS SHALL BE FABRICATED FROM STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A 570, GRADES 36 THRU 50, WITH A MAXIMUM TENSILE STRENGTH OF 80,000 POUNDS PER SQUARE INCH. ALL STRUCTURAL SHAPES AND ROLLED FORMED SECTIONS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111, USING ZINC OF ANY GRADE CONFORMING TO THE REQUIREMENTS OF AASHTO M 120. THE ZINC COATING SHALL BE NOT LESS THAN 2.0 OUNCES PER SQUARE FOOT OF SURFACE. (5) SQUARE HOLLOW STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 500, GRADE B OR ASTM A 501. THE TUBING SHALL BE GALVANIZED INSIDE AND OUTSIDE IN ACCORDANCE WITH AASHTO M 111, USING ZINC OF ANY GRADE CONFORMING TO THE REQUIREMENT OF AASHTO M 120. THE ZINC COATING SHALL NOT BE LESS THAN 2.0 OUNCES PER SQUARE FOOT OF SURFACE.

TOP RAILS - THE TOP RAILS SHALL BE 1.625 INCH O.D., GALVANIZED OR ALUMINUM COATED PIPE HAVING A MINIMUM BENDING STRENGTH OF 202 LBS. AT THE CENTER OF A 10 FT. SPAN.

BOTTOM TENSION WIRE - THE BOTTOM TENSION WIRE SHALL BE #9 GAUGE GALVANIZED STEEL WIRE MEETING THE REQUIREMENTS OF AASHTO M 181, THE WIRE SHALL BE STRETCHED TIGHT WITH GALVANIZED TURNBUCKLES SPACED AT INTERVALS NOT MORE THAN 1,000 FEET. THE ZINC COATING SHALL BE NOT LESS THAN 12 OUNCES PER SQUARE FOOT OF SURFACE.

HORIZONTAL BRACES - THE BRACES SHALL BE "STANDARD WEIGHT" GALVANIZED STEEL PIPE MEETING THE SPECIFICATIONS FOR LINE POSTS AND SHALL BE THE SAME DIMENSIONS AND WEIGHT AS REQUIRED FOR THE TOP RAIL.

TRUSS RODS - THE TRUSS RODS SHALL BE 3/8" ROUND GALVANIZED STEEL ROD WITH GALVANIZED TURNBUCKLES. THE ZINC COATING SHALL BE NOT LESS THAN 1.2 OUNCES PER SQUARE FOOT OF SURFACE.

GATE - THE GATE TYPE AND SIZE SHALL CONFORM TO THE DETAILS SHOWN ON THE PLANS AND AS PROVIDED IN THE SPECIAL PROVISIONS.

POST TOPS - THE POST TOPS SHALL BE STEEL OR MALLEABLE IRON OR WROUGHT IRON OR APPROVED TYPE AND SHALL BE GALVANIZED. THE ZINC COATING SHALL BE NOT LESS THAN 1.2 OUNCES PER SQUARE FOOT OF SURFACE.

STRETCHER BARS - THE STRETCHER BARS SHALL BE FLAT GALVANIZED STEEL BARS NOT LESS THAN 1/4" X 3/4" AND THE STRETCHER BAR BANDS SHALL BE FLAT GALVANIZED STEEL BARS NOT LESS THAN 1/8" X 1" WITH A 3/8" DIAMETER GALVANIZED CARRIAGE BOLT. THE ZINC COATING SHALL BE NOT LESS THAN 1.2 OUNCES PER SQUARE FOOT OF SURFACE.

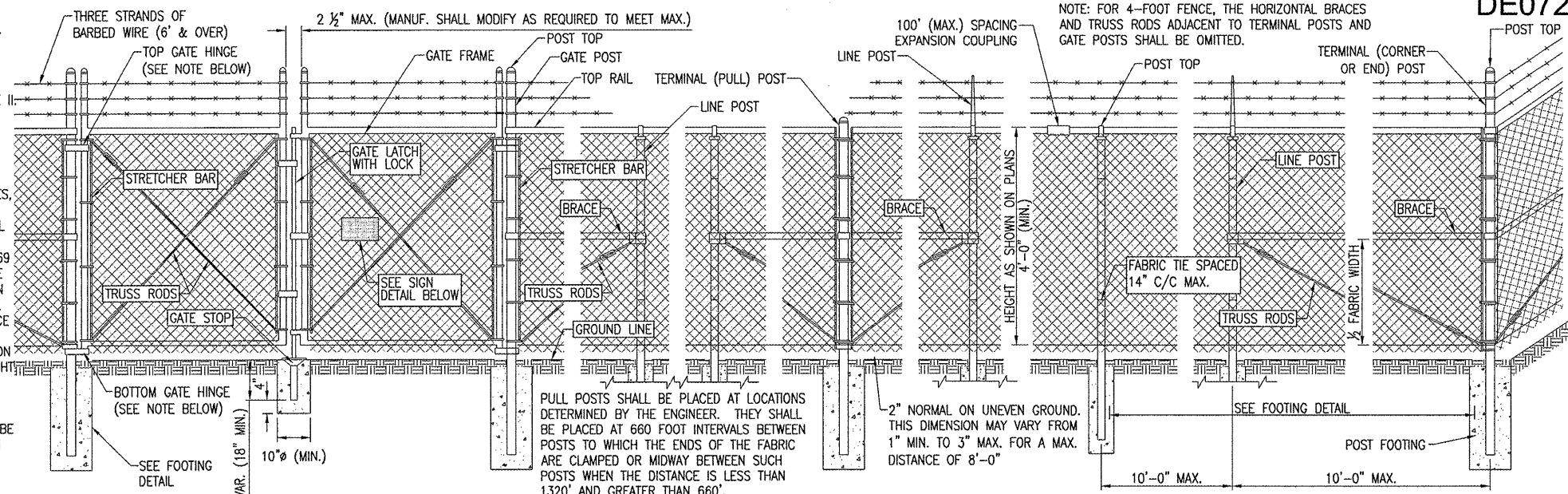
FABRIC TIES - THE FABRIC TIES SHALL BE HOG RINGS, OR ALUMINUM WIRE, OR GALVANIZED STEEL WIRE NOT LESS THAN #9 GAUGE. THE ZINC COATING SHALL BE NOT LESS THAN 1.2 OUNCES PER SQUARE FOOT OF SURFACE.

FITTINGS - THE PERTINENT FITTINGS FOR FENCE AND GATES SHALL BE STEEL OR MALLEABLE IRON OR WROUGHT IRON OR APPROVED TYPE AND SHALL BE GALVANIZED. THE ZINC COATING SHALL BE NOT LESS THAN 1.2 OUNCES PER SQUARE FOOT OF SURFACE IN ACCORDANCE WITH AASHTO M 232.

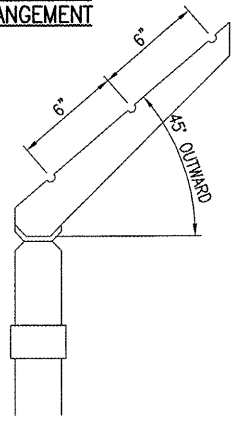
STRUCTURAL P.C. CONCRETE - THE STRUCTURAL P.C. CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ITEM 610 OF THE STANDARD SPECIFICATIONS.

BOLTS AND NUTS - THE BOLTS AND NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 307 AND SHALL BE ZINC COATED IN ACCORDANCE WITH AASHTO M 232 OR M 298, CLASS 50.

BARBED WIRE - BARBED WIRE MAY BE EITHER GALVANIZED STEEL BARBED WIRE OR ALUMINUM-COATED STEEL BARBED WIRE CONSISTING OF 2 STRANDS OF 12 1/2 GAUGE WIRE WITH 4-POINT BARBS OF 14 GAUGE WIRE SPACED 5 INCHES APART CONFORMING TO THE FOLLOWING REQUIREMENTS: (1) GALVANIZED BARBED WIRE SHALL CONFORM TO THE SPECIFICATIONS OF ZINC-COATED (GALVANIZED) STEEL BARBED WIRE, AASHTO M 280, CLASS 3 WITH A MINIMUM COATING OF 0.80 OUNCES PER SQUARE FOOT OF WIRE SURFACE. (2) ALUMINUM-COATED STEEL BARBED WIRE SHALL CONFORM TO THE SPECIFICATIONS FOR GALVANIZED STEEL BARBED WIRE, EXCEPT THE WIRE SHALL BE ALUMINUM COATED. THE WIRE SHALL HAVE NOT LESS THAN 0.25 OUNCES OF COATING OF ALUMINUM ALLOY PER SQUARE FOOT OF UNCOATED SURFACE. THE WEIGHT OF THE ALUMINUM ALLOY COATING SHALL BE DETERMINED IN ACCORDANCE WITH AASHTO T 213.



VEHICLE GATE ARRANGEMENT

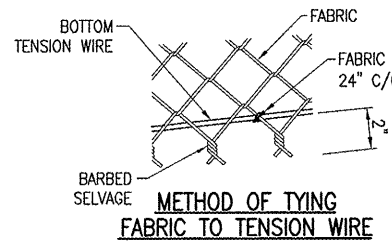
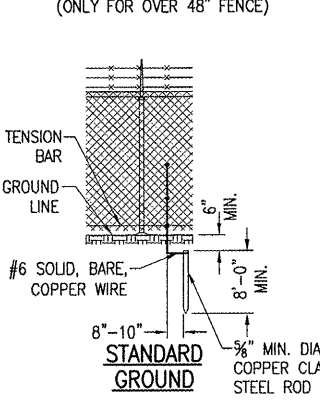


10' FENCE-POST & BRACE TABLE

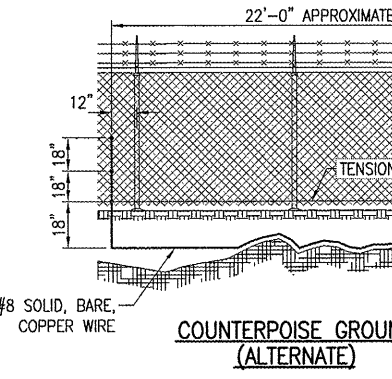
DESCRIPTION	DIA. - INCH (O.D.)	WT. LBS./FT.
LINE POST	2.875	5.79
TERMINAL POST	4.0	9.11
END POST	4.0	9.11
CORNER POST	4.0	9.11
PULL POST	4.0	9.11
GATE POST	6.625	18.97
TOP RAIL	1.66	2.27

NOTE: ONLY ROUND POSTS WILL BE PERMITTED.

DETAIL - BARBED WIRE ARM OF LINE POST
(ONLY FOR OVER 48" FENCE)

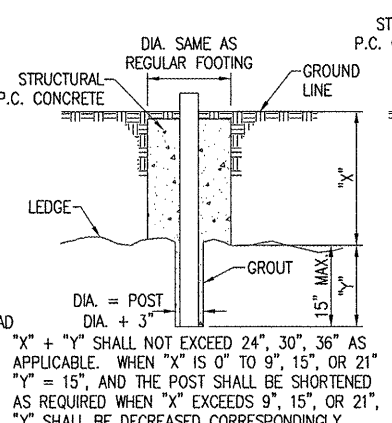


METHOD OF TYING FABRIC TO TENSION WIRE



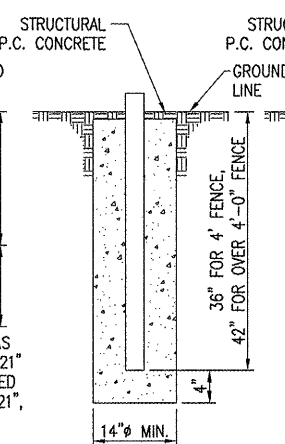
METHOD OF FASTENING STRETCHER BAR TO POST

PULL POST ARRANGEMENT



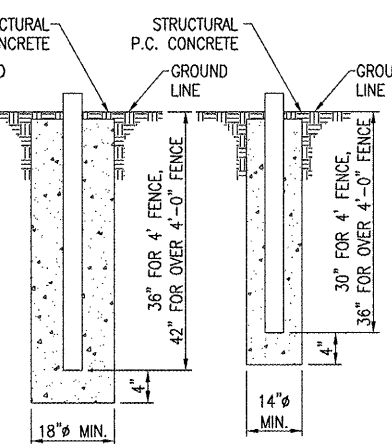
FOOTING FOR POST WHEN ROCK LEDGE IS ENCOUNTERED

LINE POST ARRANGEMENT



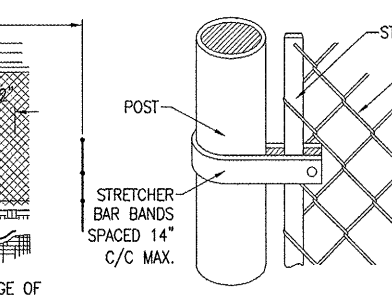
FOOTING FOR TERMINAL POST

CORNER OR END POST ARRANGEMENT

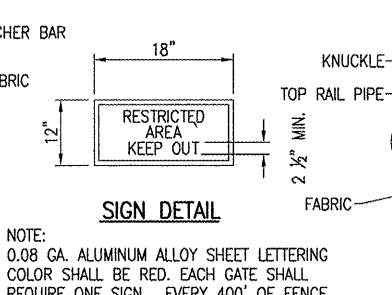


FOOTING FOR GATE POST

FOOTING FOR LINE POST



METHOD OF TYING FABRIC TO PIPE



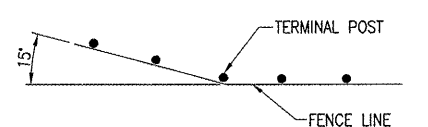
SIGN DETAIL

NOTE: 0.08 GA. ALUMINUM ALLOY SHEET LETTERING COLOR SHALL BE RED. EACH GATE SHALL REQUIRE ONE SIGN. EVERY 400' OF FENCE SHALL REQUIRE ONE SIGN.

PROTECTIVE ELECTRICAL GROUND

GENERAL NOTE:

CONTINUOUS FENCE SHALL BE GROUNDED AT INTERVALS NOT EXCEEDING 500 FT IN URBAN AREAS AND 1,000 FT IN RURAL AREAS. THERE SHALL BE A GROUND WITHIN 100 FT OF GATES IN EACH SECTION OF THE FENCE ADJACENT TO THE GATE. FENCE UNDER A POWER LINE SHALL BE GROUNDED BY THREE GROUNDS; ONE DIRECTLY UNDER THE CROSSING AND ONE ON EACH SIDE 25 FT TO 50 FT AWAY. A SINGLE GROUND SHALL BE LOCATED DIRECTLY UNDER EACH TELEPHONE WIRE OR CABLE CROSSING. THE COUNTERPOISE GROUND SHALL BE USED ONLY WHERE IT IS IMPOSSIBLE TO DRIVE A GROUND ROD. THE GROUND WIRE SHALL BE CONNECTED TO THE FABRIC AND TENSION WIRE WITH UL LISTED GROUNDING CONNECTORS OF CAST BRONZE BODY AND BRONZE OR STAINLESS STEEL BOLTS AND WASHERS. GROUNDING CONNECTORS SHALL BE SIZED AND SUITABLE FOR THE RESPECTIVE APPLICATION. CONNECTIONS TO GROUND RODS SHALL BE WITH UL LISTED GROUNDING CONNECTORS SUITABLE FOR EXOTHERMIC WELD TYPE CONNECTORS, CADWELD BY ERICO PRODUCTS, INC., DIRECT BURIAL IN EARTH OR SOLON, OHIO, (PHONE 1-800-248-9353), THERMOWELD BY CONTINENTAL INDUSTRIES, INC., TULSA, OKLAHOMA (PHONE 918-663-1440) OR ULTRAWELD BY HARGER, GRAYSLAKE, ILLINOIS (PHONE 1-800-842-7437). EXOTHERMIC WELD CONNECTIONS SHALL BE INSTALLED IN CONFORMANCE WITH THE RESPECTIVE MANUFACTURER'S DIRECTIONS USING MOLDS SUITABLE FOR EACH RESPECTIVE APPLICATION. GROUND RODS SHALL BE 5/8-IN. DIAMETER BY 8 FT LONG (MINIMUM), UL-LISTED, COPPER-CLAD. THE GROUND WIRE USED TO BOND THE FENCE FABRIC AND TENSION WIRE TO THE GROUND ROD SHALL BE #6 AWG BARE SOLID COPPER CONDUCTOR.



WHERE THE FENCE LINE HAS A CHANGE IN DIRECTION OF 15° OR MORE, A TERMINAL POST SHALL BE PLACED AS SHOWN ABOVE. WHERE ANGLE IS LESS THAN 15° AND EXISTING CONDITIONS REQUIRE TERMINAL POST, THEY SHALL BE PLACED AS DIRECTED BY ENGINEER.

BY	DATE	REVISION

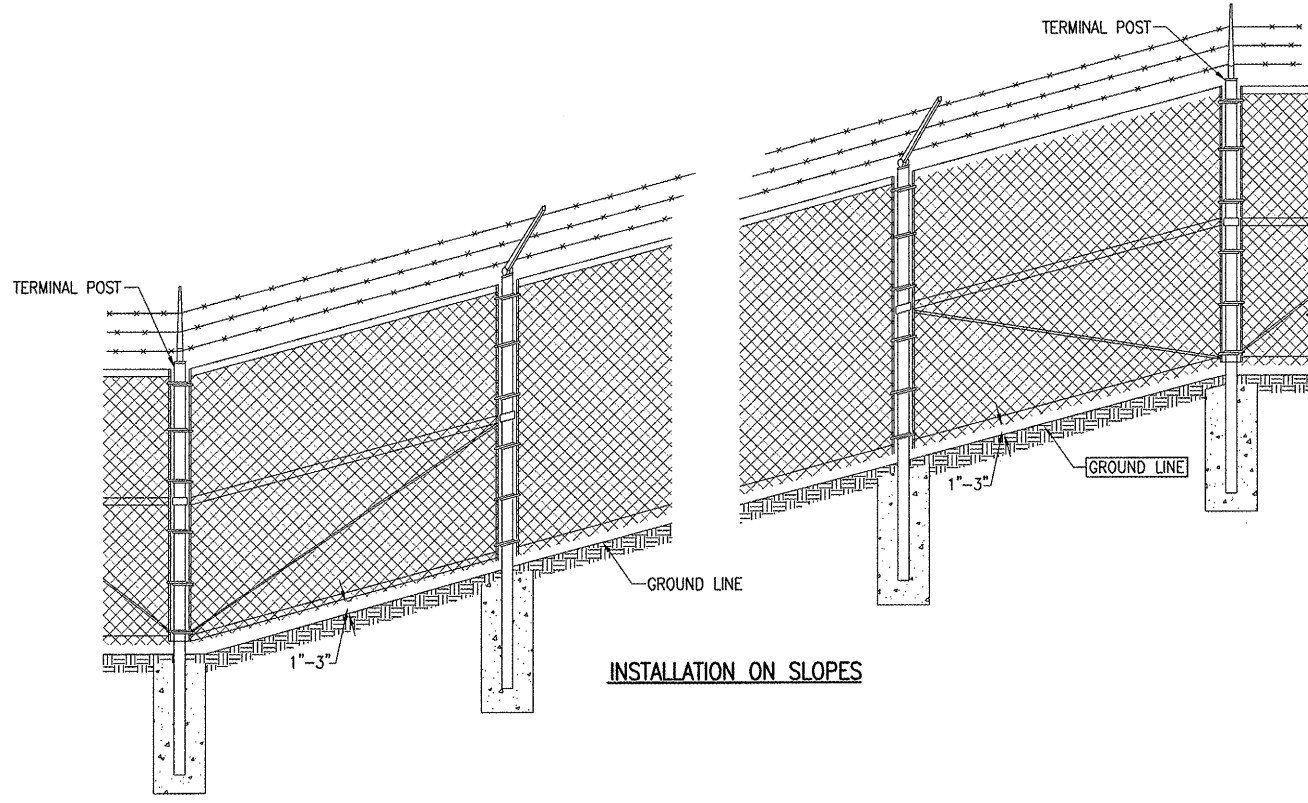
DECATUR, ILLINOIS
A.I.P. PROJ.: 3-17-0033-KX

DATE	BY	REVIEWED	DATE
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04/05/10	RAW		

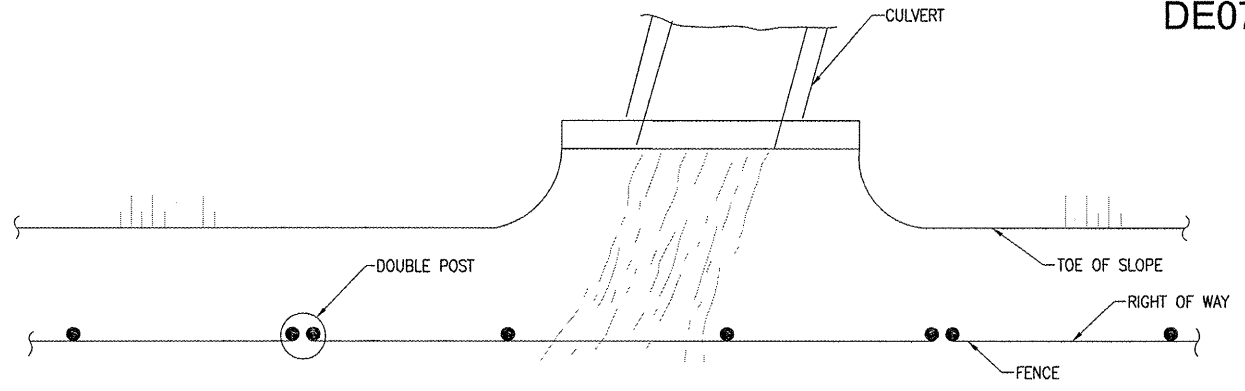
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Springfield, Illinois 62703-2886
Offices Nationwide

INSTALL PERIMETER FENCING
PROPOSED FENCE DETAILS

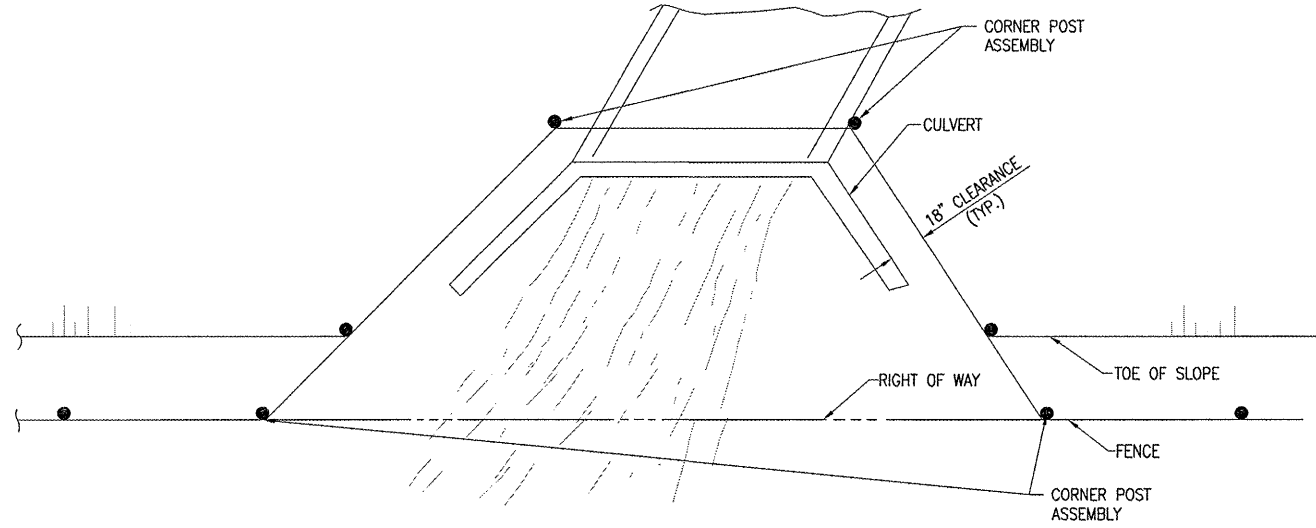
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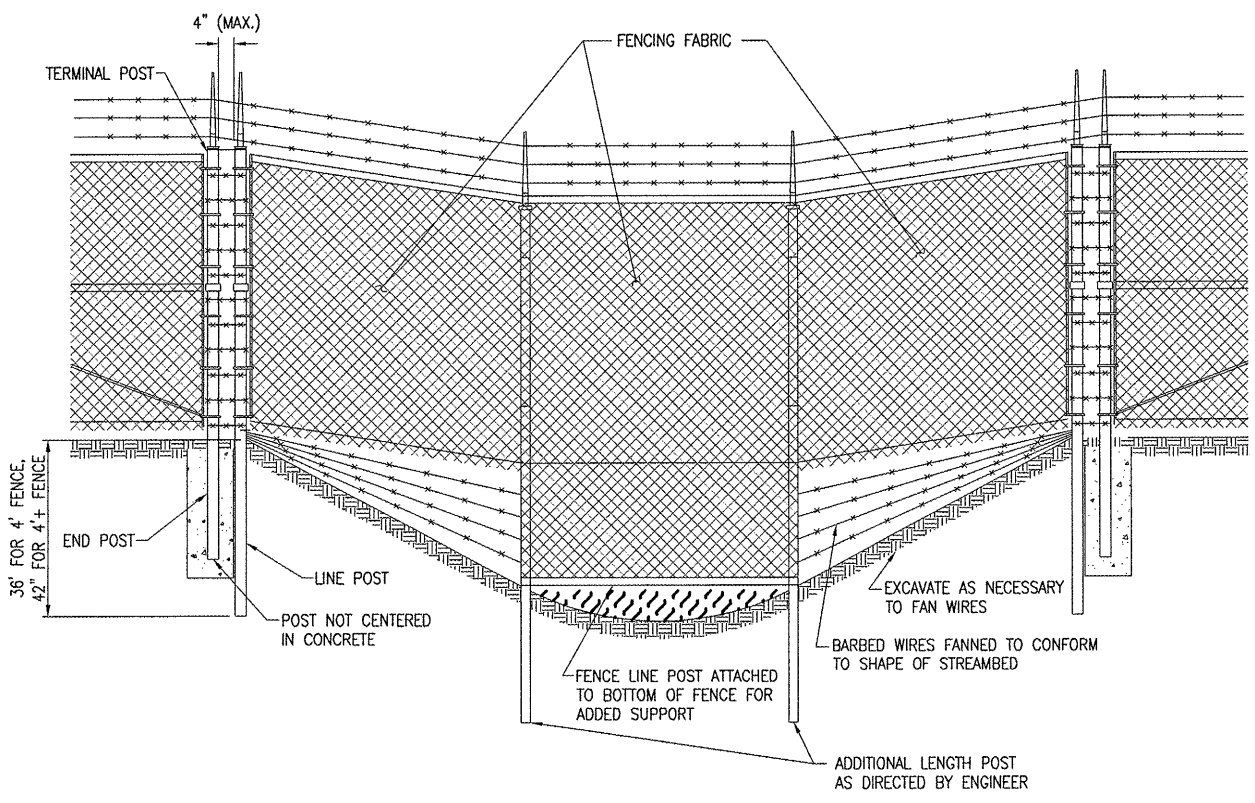
INSTALLATION ON SLOPES



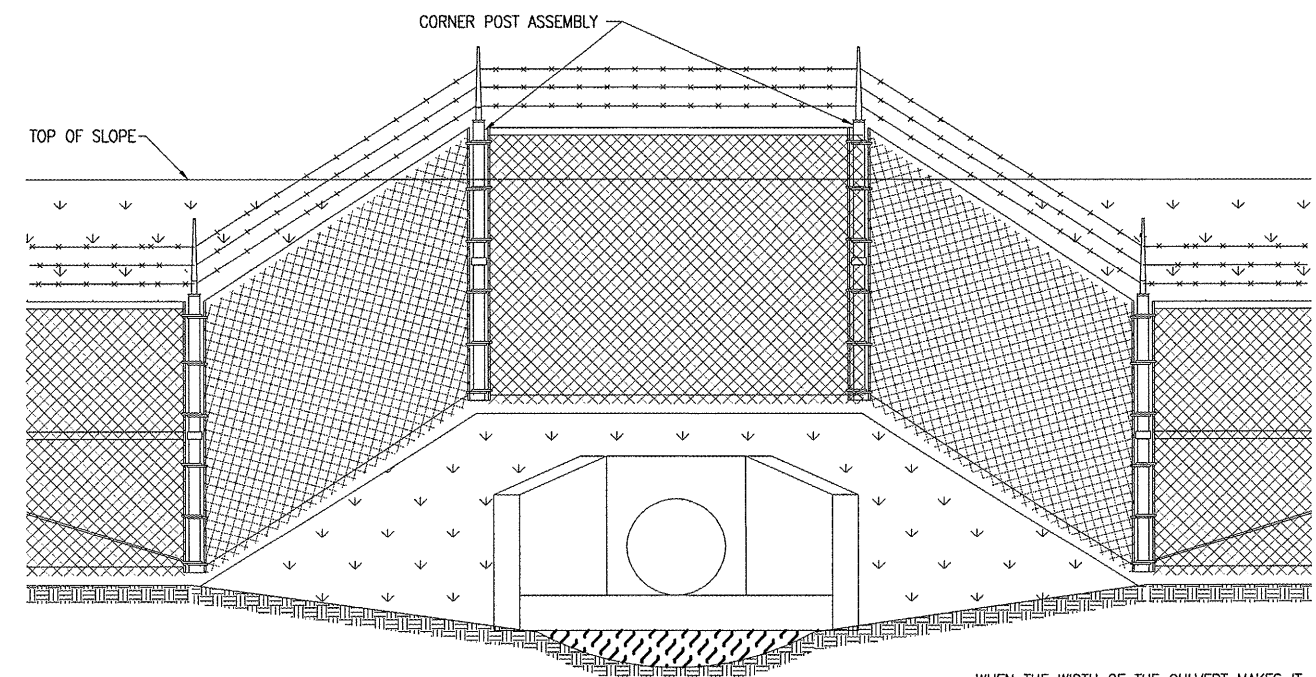
INSTALLATION OVER STREAM (PLAN)



INSTALLATION AROUND HEADWALL (PLAN)



INSTALLATION OVER STREAM (ELEVATION)



INSTALLATION AROUND HEADWALL (ELEVATION)

WHEN THE WIDTH OF THE CULVERT MAKES IT NECESSARY TO ANCHOR A POST TO THE TOP OF THE CULVERT, A CAST IRON SHOE OR OTHER DEVICE APPROVED BY THE ENGINEER SHALL BE USED.

DATE	REVISION	BY



DECATUR, ILLINOIS

IL PROJ.: DEC-3837 A.I.P. PROJ.: 3-17-0033-XX

181 Product No. 09A01780.0001	
Drawings: R-572FENLDWG	
Scale: NOT TO SCALE	
Date:	
LAYOUT: CAH 03/02/10	
DRAWN: CAH 03/02/10	
REVIEWED: RAW 04/05/10	



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Springfield, IL 62705-2886
Chicago, Nationwide

INSTALL PERIMETER FENCING

PROPOSED FENCE DETAILS

13

13 of 13 sheets

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THE CHAIN LINK FABRIC SHALL BE REPLACED BY BARBED WIRE STRANDS AT 12" MAXIMUM CENTERS BETWEEN THE DOUBLE POST SHOWN.