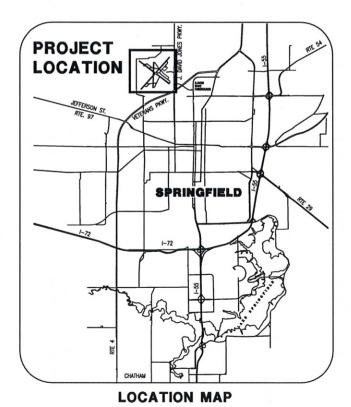
CONSTRUCTION PLANS FOR ABRAHAM LINCOLN CAPITAL AIRPORT

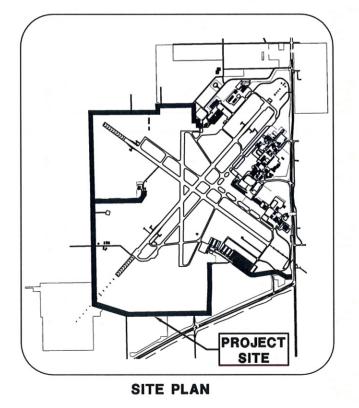
SPRINGFIELD AIRPORT AUTHORITY SPRINGFIELD, ILLINOIS

ILLINOIS PROJECT SPI - 3974 A. I. P. PROJECT 3-17-0096-XX

UPGRADE PERIMETER FENCE - PHASE 2

DECEMBER 11, 2009









CMT JOB NUMBER 08035-04



J.U.L.I.E.
JOINT UTILITY LOCATING
INFORMATION FOR EXCAVATORS

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTLITES MINICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT DR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSBULTY TO DETERMINE NOTULAL LOCATIONS OF ALL SUFFICIENT OR CONTRACTOR'S RESPONSBULTY TO DETERMINE NOTULAL LOCATIONS OF ALL SUFFICIENT OF A CONTRACTOR OF A LOCATION OF A LOCATION OF A LOCATION OF THE PROPERTY OF THE OFF A CHILDRES AND THE WORKING SCHEDULE OF THE COMPANIES OF THE PROPERTY OF THE PROPERT

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 811.

CALL J.U.L.I.E. BEFORE EXCAVATING 1-800-892-0123

TOWNSHIP: 16 NORTH RANGE: 5 WEST OF THE 4TH P.M. SECTION: 16 & 17 COUNTY: SANGAMON CIVIL TOWNSHIP: CAPITAL

INDEX TO SHEETS		
Sheet Number	-	
1	COVER SHEET	
2	INDEX TO SHEETS & SUMMARY OF QUANTITIES	
3	AIRPORT SITE PLAN	
4	CONSTRUCTION ACTIVITY PLAN 1	
5	CONSTRUCTION ACTIVITY PLAN 2	
6	EXISTING CONDITIONS AND REMOVALS SHEET 1	
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9	EXISTING FENCE DETAILS	
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21	ELECTRIC GATE DETAIL 1	
22	ELECTRIC GATE DETAIL 2	
23	ELECTRIC GATE DETAIL 3	

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	
	BASE BID			
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1	
AR151420	CLEARING TREES 0-2.5' BUTT. DIA.	EACH	1	
AR151429	STUMP REMOVAL 0.0-2.5 FT. DIA.	EACH	1	
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	125	
AR156510	SILT FENCE	L.F.	200	
AR156543	RIPRAP-GRADATION NO. 3	S.Y.	250	
AR161900	REMOVE CLASS C FENCE	L.F.	4225	
AR800241	CLASS E FENCE 10' W/ 2' BURIED	L.F.	20485	
AR162604	CLASS E GATE-4'	EACH	4	
AR162620	CLASS E GATE-20'	EACH	1	
AR162624	CLASS E GATE-24'	EACH	7	
AR162724	ELECTRIC GATE 24'	EACH	1	
AR800251 FENCE ADJUSTMENT		L.F.	2905	
AR162900	REMOVE CLASS E FENCE	L.F.	16320	
AR162905	REMOVE GATE	EACH	13	
AR162908	REMOVE ELECTRIC GATE	EACH	1	
AR901510	SEEDING	ACRE	4	
AR908510	MULCHING	ACRE	4	
AR908520 EXCELSIOR BLANKET		S.Y.	3000	
	ADDITIVE ALTERNATE	E #1	1	
AS156543	RIPRAP-GRADATION NO. 3	S.Y.	50	
AS800241	CLASS E FENCE 10' W/ 2' BURIED	L.F.	1720	
AS162624	CLASS E GATE-24'	EACH	1	
AS162900	REMOVE CLASS E FENCE	L.F.	1720	
AS162905	REMOVE GATE	EACH	1	
AS901510	SEEDING	ACRE	1.5	
AS908510	MULHCING	ACRE	1.5	

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SPRINGFIELD AIRPORT AUTHORITY ABRAHAM LINCOLN CAPITAL AIRPORT SPRINGFIELD, ILLINOIS

INDEX TO SHEETS & SUMMARY OF QUANTITIES UPGRADE PERIMETER FENCE PHASE 2

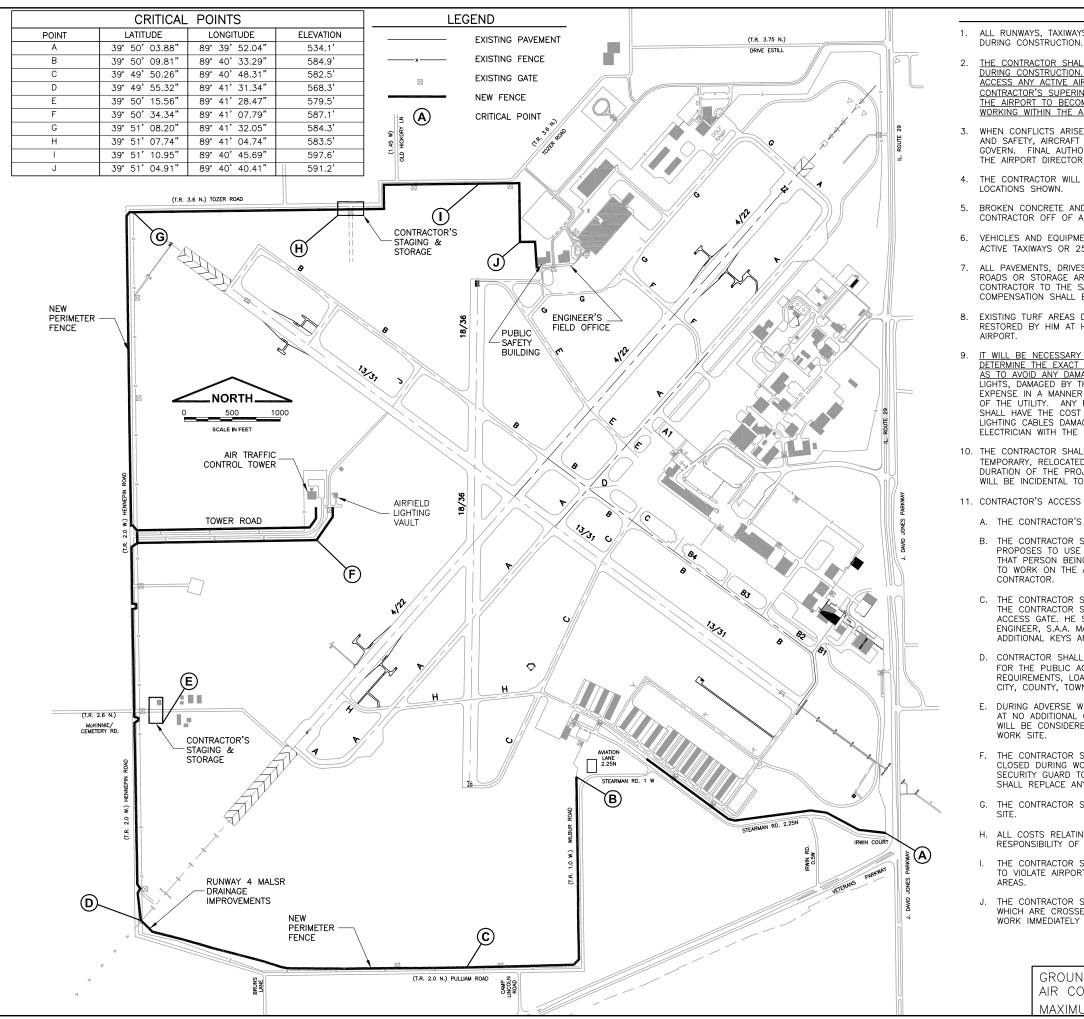
CRAWFORD, MJRPHY & TILLY, NC. CONSULTING ENGINEERS License No. 184-000613



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CHECKED BY:	CBG
APPROVED BY:	RLV
DATE:	12/11/2009
JOB No:	08035-04-00
IL. PROJ.	NO. SPI-3974

AIP PROJ. NO. 3-17-0096-XX

SHEET 2 OF 23 SHEETS



GENERAL NOTES

- ALL RUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRPORT TRAFFIC
- THE CONTRACTOR SHALL REMAIN WITHIN 25' OF THE EXISTING FENCE LINE AT ALL TIMES DURING CONSTRUCTION. AT NO TIME SHOULD THE CONTRACTOR OR HIS PERSONNEL ACCESS ANY ACTIVE AIRFIELD PAVEMENTS. PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR'S SUPERINTENDENT WILL BE REQUIRED TO ATTEND TRAINING COURSES AT THE AIRPORT TO BECOME AWARE OF POLICIES AND PROCEDURES ASSOCIATED WITH WORKING WITHIN THE AIRPORT SECURITY FENCE.
- WHEN CONFLICTS ARISE BETWEEN CONSTRUCTION ACTIVITIES AND AIRCRAFT OPERATIONS AND SAFETY, AIRCRAFT OPERATIONS AND SAFETY SHALL TAKE PRECEDENCE AND SHALL GOVERN. FINAL AUTHORITY IN THE APPROVAL OF CONSTRUCTION SEQUENCING LIES WITH
- THE CONTRACTOR WILL BE PERMITTED TO STORE EQUIPMENT AND MATERIALS AT THE
- BROKEN CONCRETE AND OTHER WASTE MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR OFF OF AIRPORT PROPERTY.
- VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED WITHIN 95' FROM THE CENTERLINE OF ACTIVE TAXIWAYS OR 250' FROM THE CENTERLINE OF ACTIVE RUNWAYS.
- ALL PAVEMENTS, DRIVES, OR ANY OTHER AREAS UTILIZED BY THE CONTRACTOR FOR HAUL ROADS OR STORAGE AREAS SHALL BE MAINTAINED AND REPAIRED IN KIND BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND THE AIRPORT. NO ADDITIONAL COMPENSATION SHALL BE MADE TO THE CONTRACTOR FOR THIS WORK.
- EXISTING TURF AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER AND THE
- IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAKE HIS OWN FIELD INVESTIGATION TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES AT CRITICAL POINTS SO AS TO AVOID ANY DAMAGE. ANY UTILITY, INCLUDING AIRFIELD ELECTRICAL CABLE AND LIGHTS, DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY HIM AT HIS OWN EXPENSE IN A MANNER WHICH IS SATISFACTORY TO THE ENGINEER AND TO THE OWNER OF THE UTILITY. ANY REPAIRS THAT MUST BE MADE BY THE OWNER OF THE UTILITY SHALL HAVE THE COST REIMBURSED TO THE UTILITY BY THE CONTRACTOR. AIRFIELD LIGHTING CABLES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY A QUALIFIED ELECTRICIAN WITH THE COSTS TO BE BORNE BY THE CONTRACTOR.
- 10. THE CONTRACTOR SHALL MAINTAIN A SECURE AIRFIELD PERIMETER WITH EXISTING, TEMPORARY, RELOCATED OR PERMANENT MINIMUM 6' TALL FENCE THROUGHOUT THE DURATION OF THE PROJECT, COST OF ERECTION AND REMOVAL OF TEMPORARY FENCE WILL BE INCIDENTAL TO CONTRACT
- 11. CONTRACTOR'S ACCESS SHALL BE AS FOLLOWS:
 - A. THE CONTRACTOR'S ACCESS TO WORK SHALL BE AS SHOWN IN THE PLANS.
 - B. THE CONTRACTOR SHALL COMPLETE A SECURITY FORM FOR ALL PERSONNEL HE PROPOSES TO USE ON THE AIRPORT. THESE FORMS SHALL BE COMPLETED PRIOR TO THAT PERSON BEING ALLOWED ON THE AIRFIELD. A LIST OF PERSONNEL AUTHORIZED TO WORK ON THE AIRFIELD SHALL BE PROVIDED TO THE RESIDENT ENGINEER BY THE
 - C. THE CONTRACTOR SHALL USE AN EXISTING GATE(S) FOR ACCESS TO THE AIRFIELD. THE CONTRACTOR SHALL INSTALL AND MAINTAIN À HEAVY-DUTY PADLOCK ON THE ACCESS GATE. HE SHALL PROVIDE KEYS FOR HIS PADLOCK TO THE RESIDENT ENGINEER, S.A.A. MAINTENANCE SUPERVISOR, AND S.A.A. SECURITY CHIEF. NO ADDITIONAL KEYS ARE TO BE DISTRIBUTED UNLESS AUTHORIZED BY THE AIRPORT.
 - D. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND TEMPORARY EASEMENTS FOR THE PUBLIC ACCESS ROAD(S) SHOWN AND SHALL COMPLY WITH ALL REQUIREMENTS, LOAD RESTRICTIONS, & TRAFFIC CONTROL SIGNAGE REQUIRED BY THE CITY, COUNTY, TOWNSHIP, OR I.D.O.T.
 - E. DURING ADVERSE WEATHER THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF THE CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE
 - F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE ACCESS GATE(S) CLOSED DURING WORK HOURS. THE CONTRACTOR SHALL POST A COMPETENT SECURITY GUARD TO CONTROL ACCESS AT THE GATE WHEN OPEN. THE CONTRACTOR SHALL REPLACE ANY UNSATISFACTORY SECURITY GUARDS AS DIRECTED.
 - G. THE CONTRACTOR SHALL CLOSE AND LOCK THE ACCESS GATE(S) UPON LEAVING THE
 - $\mbox{H.}$ ALL COSTS RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - THE CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS IN SUCH A WAY AS NOT TO VIOLATE AIRPORT PART 77 SURFACES, OR RUNWAY AND TAXIWAY OBSTACLE FREE
 - J. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ACTIVE AIRFIELD PAVEMENTS WHICH ARE CROSSED BY HIS VEHICLES ACCESSING THE WORK OR DEPARTING THE WORK IMMEDIATELY FOLLOWING SAID VEHICLE.

GROUND CONTROL FREQUENCY - 121.90 AIR CONTROL FREQUENCY - 121.30 MAXIMUM HEIGHT OF FQUIPMENT - 15'

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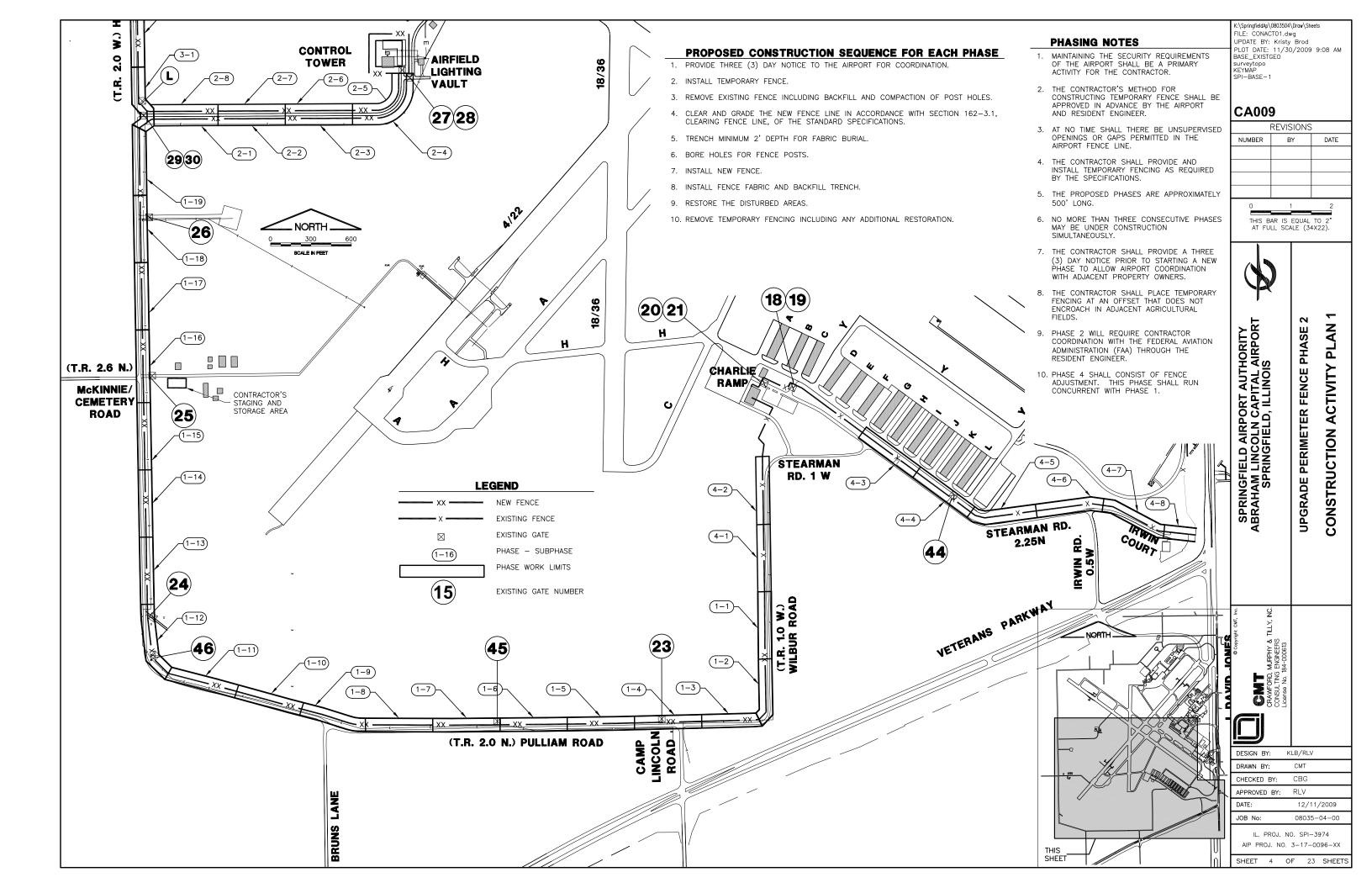
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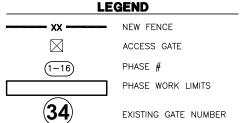
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SHEET 3 OF 23 SHEETS







LEGEND

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ORT AUTHORITY SAPITAL AIRPORT , ILLINOIS

SPRINGFIELD AIRPORT ABRAHAM LINCOLN CAPI SPRINGFIELD, ILL

PLAN

ACTIVITY PERIMETER FENCE CONSTRUCTION UPGRADE

CRAWFORD, CONSULTING



	DESIGN BY:	KLB/RLV
	DRAWN BY:	СМТ
-	CHECKED BY:	CBG
	APPROVED BY:	RLV
•	DATE:	12/11/2009
	JOB No:	08035-04-00

IL. PROJ. NO. SPI-3974 AIP PROJ. NO. 3-17-0096-XX SHEET 5 OF 23 SHEETS

PROPOSED CONSTRUCTION SEQUENCE FOR EACH PHASE

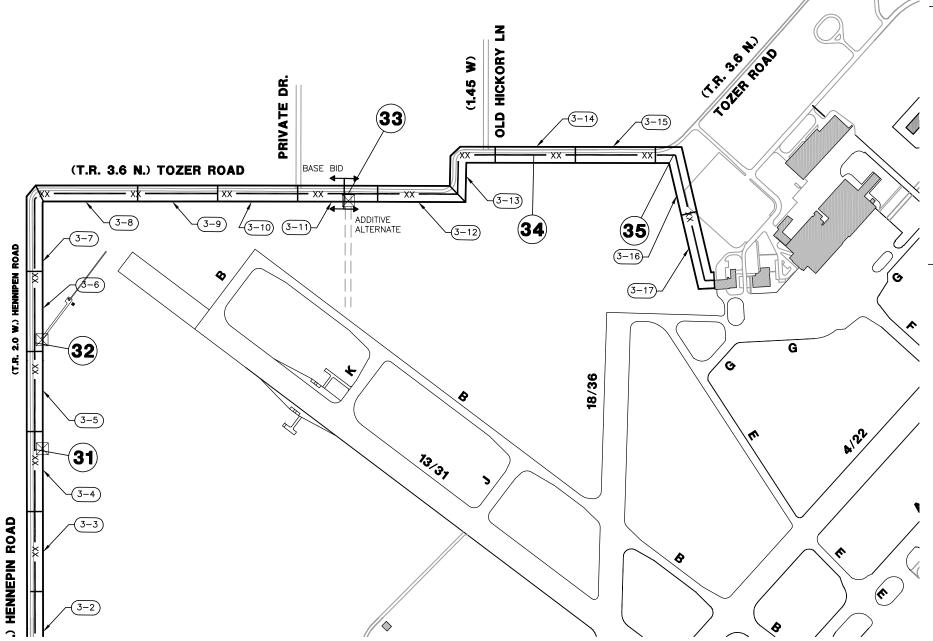
- 1. PROVIDE THREE (3) DAY NOTICE TO THE AIRPORT FOR COORDINATION.
- 2. INSTALL TEMPORARY FENCE.
- 3. REMOVE EXISTING FENCE INCLUDING BACKFILL AND COMPACTION OF POST HOLES.
- 4. CLEAR AND GRADE THE NEW FENCE LINE IN ACCORDANCE WITH SECTION 162-3.1, CLEARING FENCE LINE, OF THE STANDARD SPECIFICATIONS.
- 5. TRENCH MINIMUM 2' DEPTH FOR FABRIC BURIAL.
- 6. BORE HOLES FOR FENCE POSTS.
- 7. INSTALL NEW FENCE.
- 8. INSTALL FENCE FABRIC AND BACKFILL TRENCH.
- 9. RESTORE THE DISTURBED AREAS.
- 10. REMOVE TEMPORARY FENCING INCLUDING ANY ADDITIONAL RESTORATION.

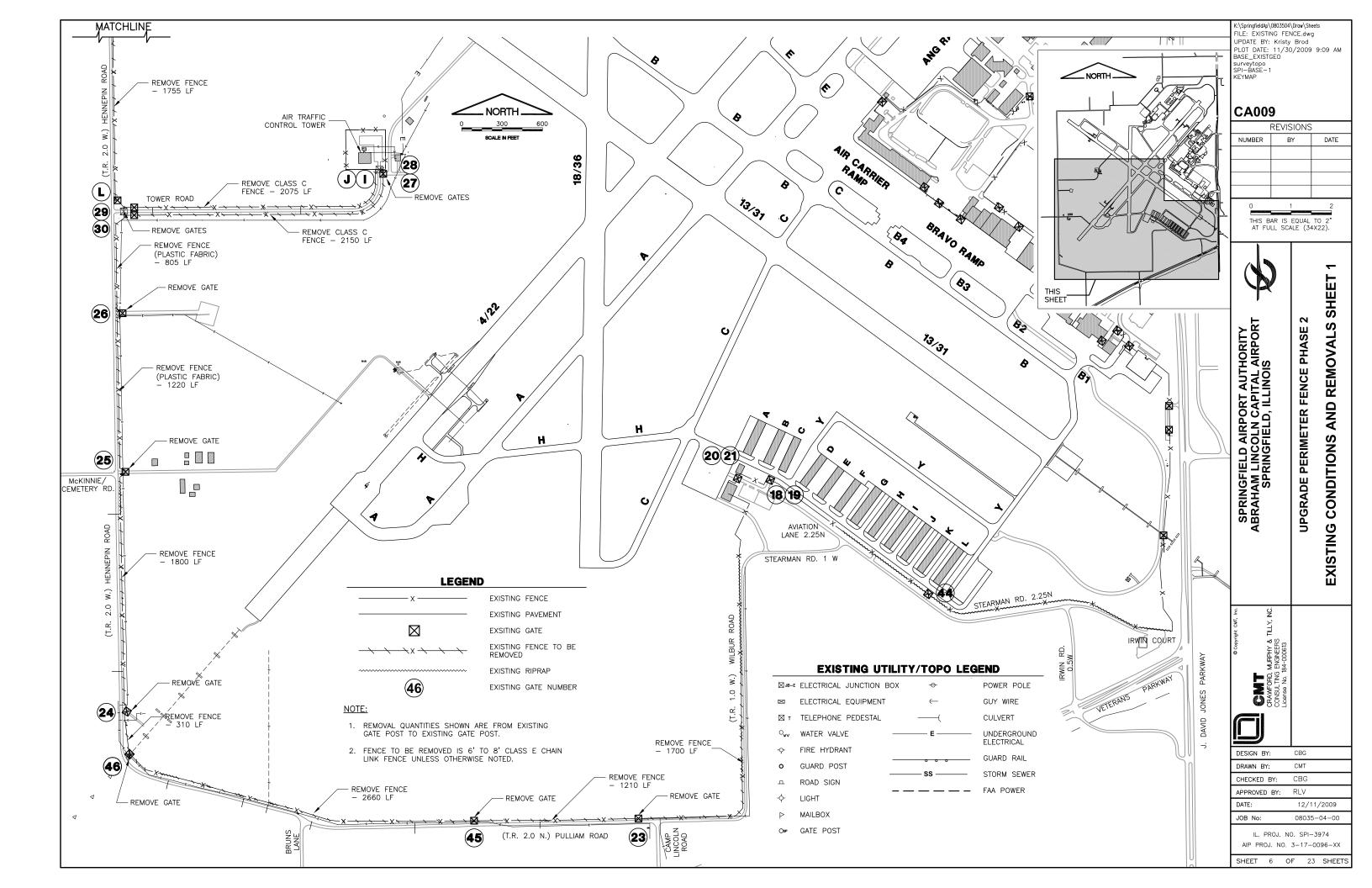
PHASING NOTES

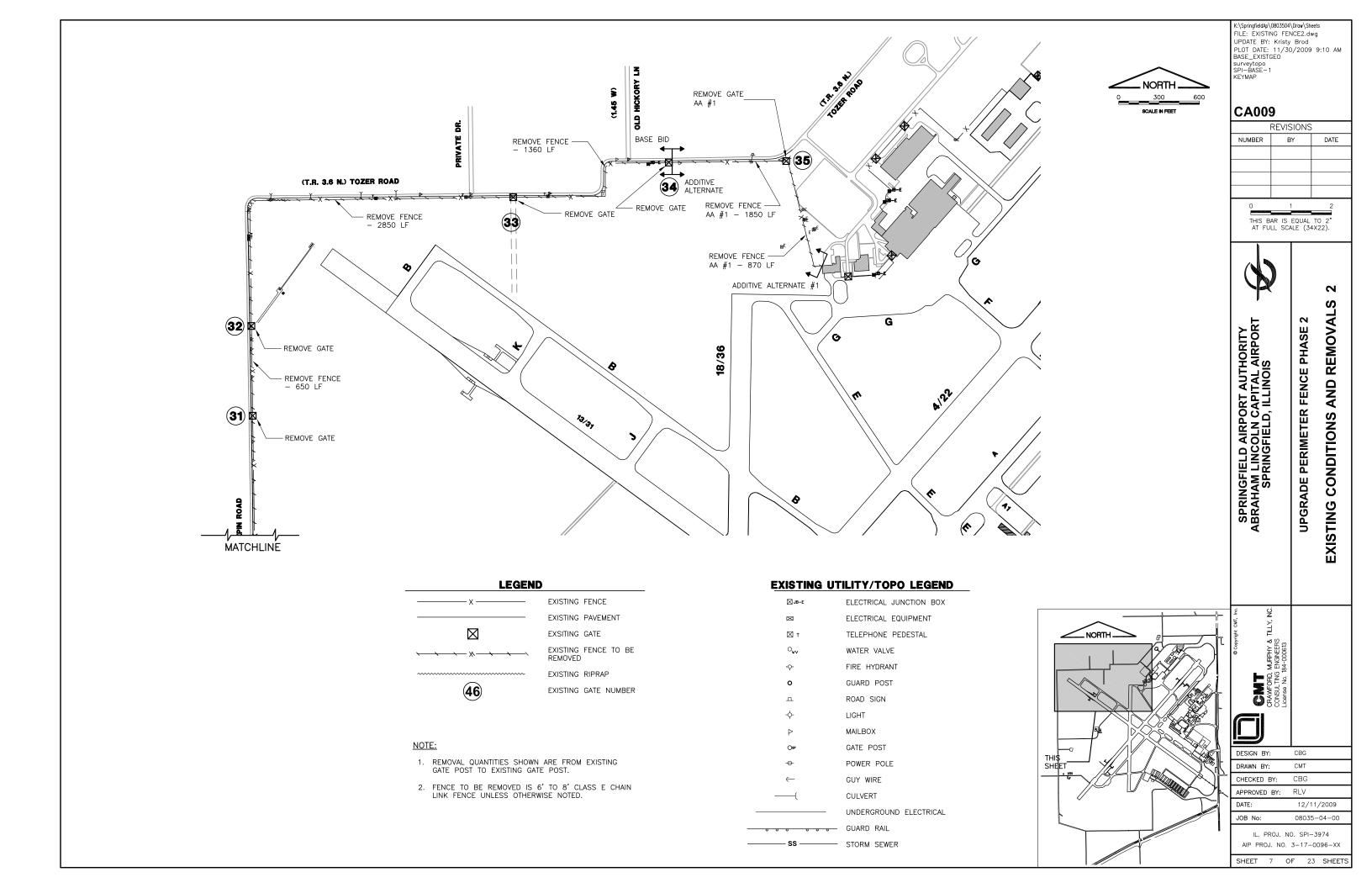
- 1. MAINTAINING THE SECURITY REQUIREMENTS OF THE AIRPORT SHALL BE A PRIMARY ACTIVITY FOR THE CONTRACTOR.
- 2. THE CONTRACTOR'S METHOD FOR CONSTRUCTING TEMPORARY FENCE SHALL BE APPROVED IN ADVANCE BY THE AIRPORT AND RESIDENT ENGINEER.
- 3. At no time shall there be unsupervised openings or gaps permitted in the airport fence line.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL TEMPORARY FENCING AS REQUIRED BY THE SPECIFICATIONS.
- 5. THE PROPOSED PHASES ARE APPROXIMATELY 500' LONG.
- 6. NO MORE THAN THREE CONSECUTIVE PHASES MAY BE UNDER CONSTRUCTION SIMULTANEOUSLY.
- THE CONTRACTOR SHALL PROVIDE A THREE (3) DAY NOTICE PRIOR TO STARTING A NEW PHASE TO ALLOW AIRPORT COORDINATION WITH ADJACENT PROPERTY OWNERS.
- 8. THE CONTRACTOR SHALL PLACE TEMPORARY FENCING AT AN OFFSET THAT DOES NOT ENCROACH IN ADJACENT AGRICULTURAL FIELDS.

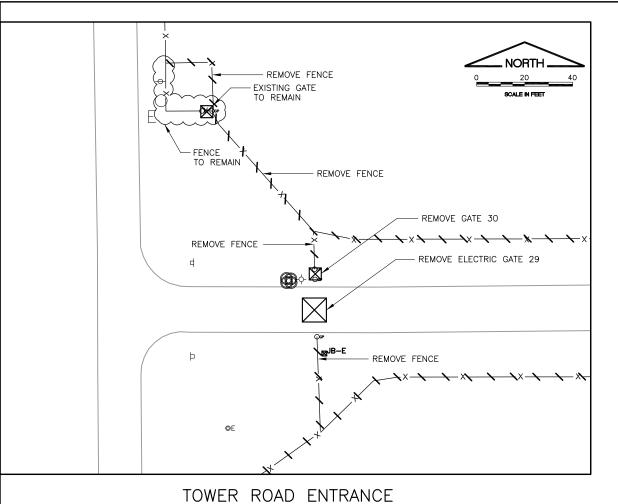
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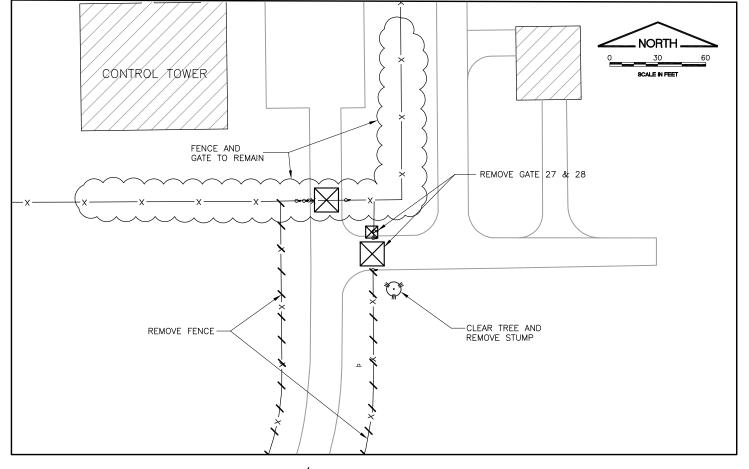
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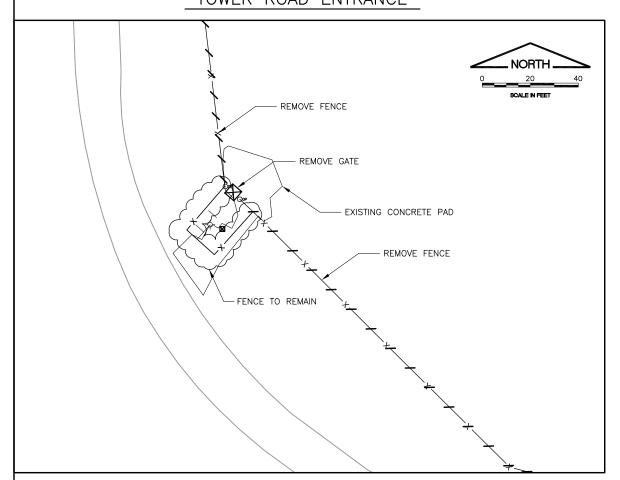




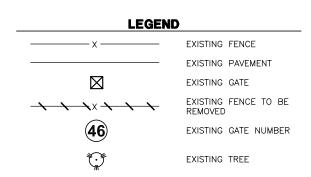




_VAULT/TOWER_ENTRANCE



RUNWAY 4 MALSR TOWER



EVICTING LITH ITY/TODO I ECEND

	EXISTING UT	ILITY TOPO	LEGEND
⊠ JB−E	ELECTRICAL JUNCTION B	ox o	POWER POLE
\boxtimes	ELECTRICAL EQUIPMENT	\leftarrow	GUY WIRE
⊠т	TELEPHONE PEDESTAL	——(CULVERT
owv	WATER VALVE	—— Е—	—— UNDERGROUND ELECTRICAL
φ.	FIRE HYDRANT		ELECTRICAL
0	GUARD POST	0 0 0	GUARD RAIL
Ū	00/1/10/10/1	ss	STORM SEWER
д	ROAD SIGN		
ф-	LIGHT		

MAILBOX

OP GATE POST

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SPRINGFIELD AIRPORT AUTHORITY ABRAHAM LINCOLN CAPITAL AIRPORT SPRINGFIELD, ILLINOIS

က

AND REMOVAL SHEET UPGRADE PERIMETER FENCE PHASE **EXISTING CONDITIONS**

CRAWFORD, P CONSULTING

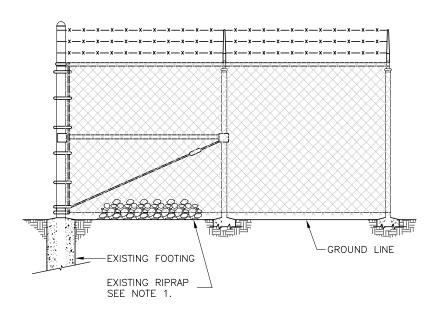


NORTH -

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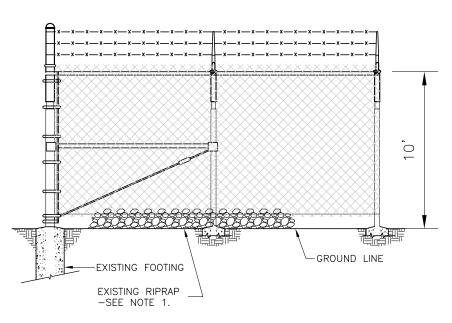
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SHEET 8 OF 23 SHEETS

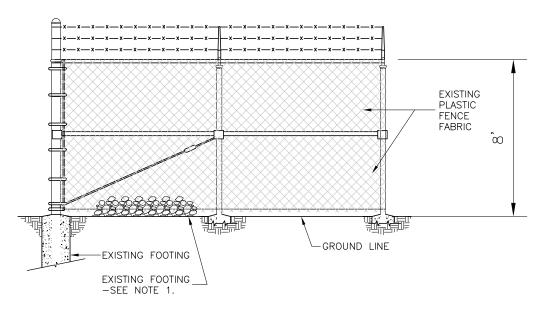


EXISTING CLASS E CHAIN LINK FENCE 6'-8'

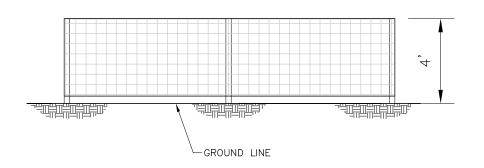
- EXISTING RIPRAP SHALL BE MOVED AS
 NEEDED TO ACCOMMODATE TRENCHING OR ADJUSTMENT OPERATIONS.
- 2. THE CONTRACTOR SHALL GIVE THE AIRPORT FIRST OPPORTUNITY TO FENCE MATERIALS THAT ARE REMOVED. ANY REMOVED MATERIALS THE AIRPORT DOES NOT WANT SHALL BE DISPOSED OF OFF SITE.



EXISTING CHAIN LINK FENCE TO BE ADJUSTED



EXISTING CLASS E FENCE WITH PLASTIC FENCE FABRIC



EXISTING 4' CLASS C FENCE

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PHASE DETAILS **UPGRADE PERIMETER FENCE** FENCE **EXISTING**

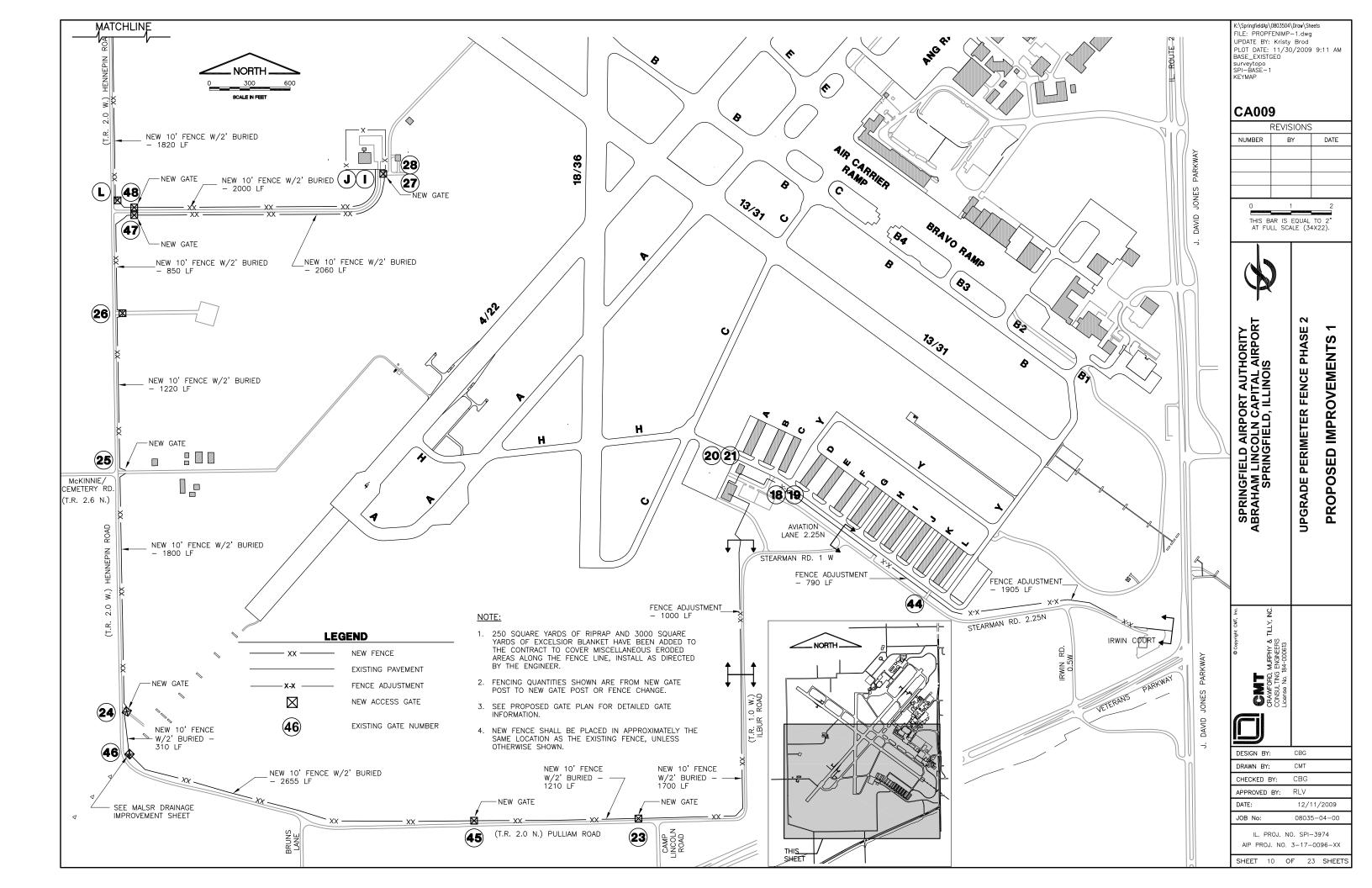
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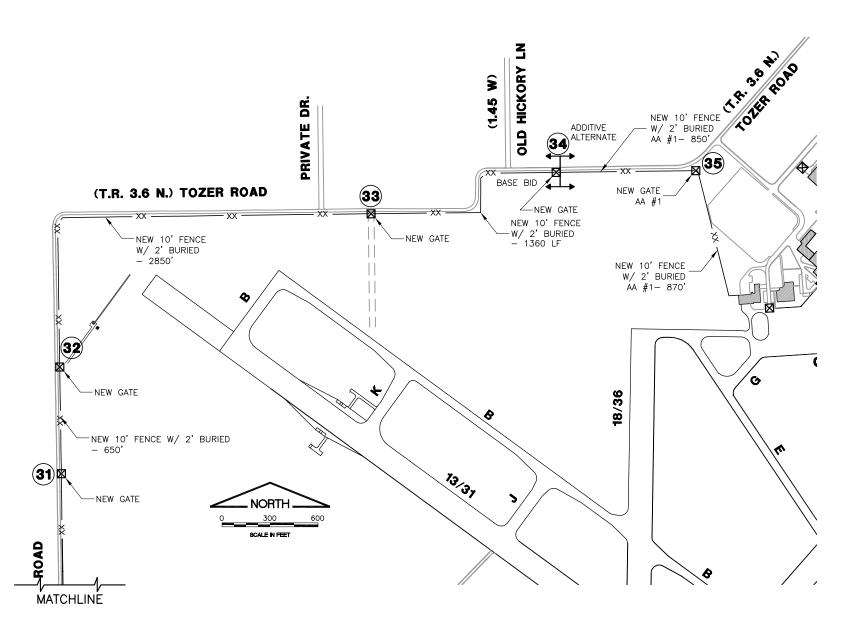


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SHEET 9 OF 23 SHEETS





EXISTING PAVEMENT FENCE ADJUSTMENT \boxtimes NEW ACCESS GATE

LEGEND

NEW FENCE

46) EXISTING GATE NUMBER

NOTE:

- 1. 250 SQUARE YARDS OF RIPRAP AND 3000 SQUARE YARDS OF EXCELSIOR BLANKET HAVE BEEN ADDED TO THE CONTRACT TO COVER MISCELLANEOUS ERODED AREAS ALONG THE FENCE LINE, INSTALL AS DIRECTED BY THE ENGINEER.
- FENCING QUANTITIES SHOWN ARE FROM NEW GATE POST TO NEW GATE POST OR FENCE CHANGE.
- 3. SEE PROPOSED GATE PLAN FOR DETAILED GATE INFORMATION.
- 4. NEW FENCE SHALL BE PLACED IN APPROXIMATELY THE SAME LOCATION AS THE EXISTING FENCE, UNLESS OTHERWISE SHOWN.

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PHASE

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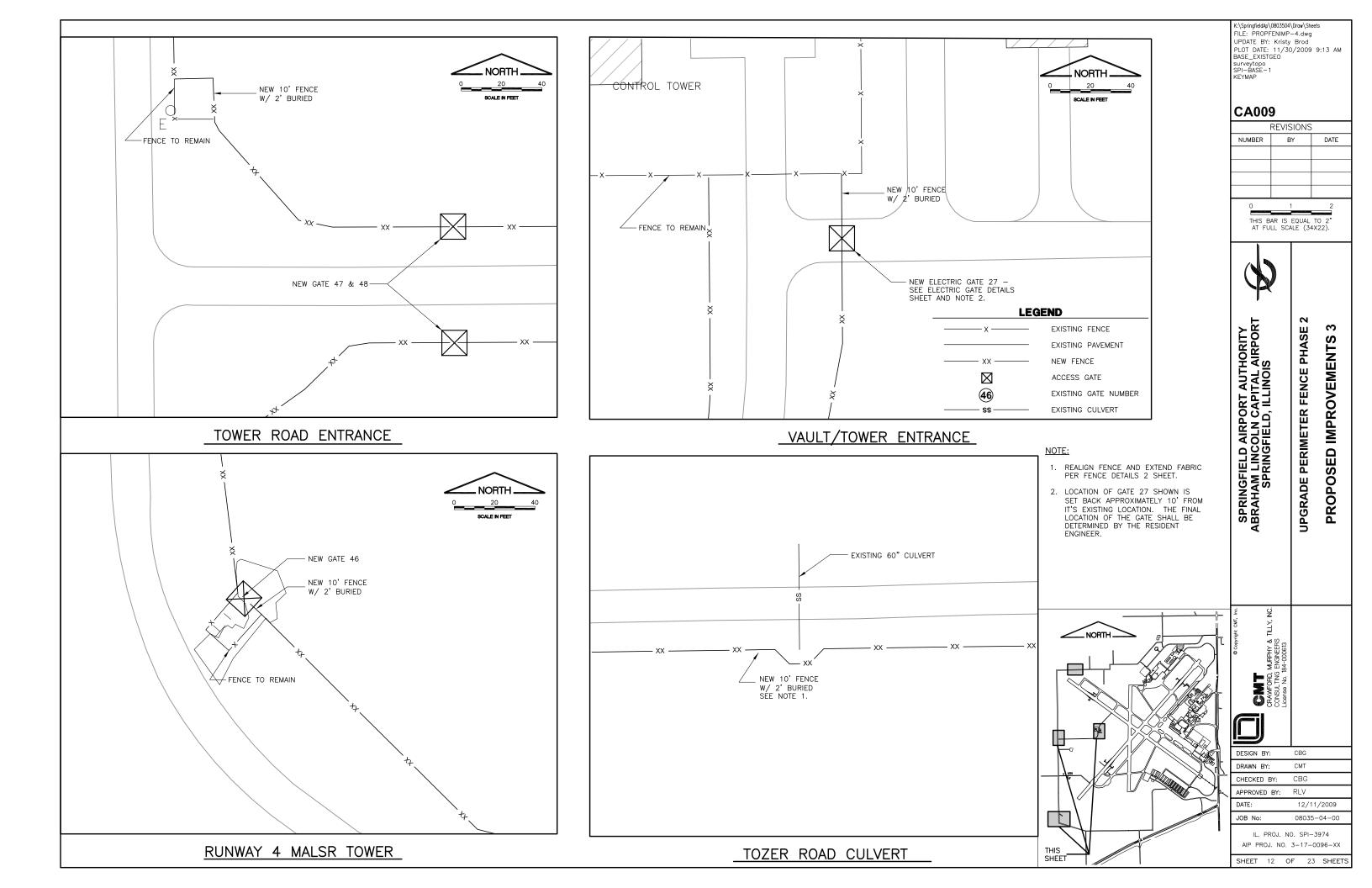
PROPOSED IMPROVEMENTS **UPGRADE PERIMETER FENCE**

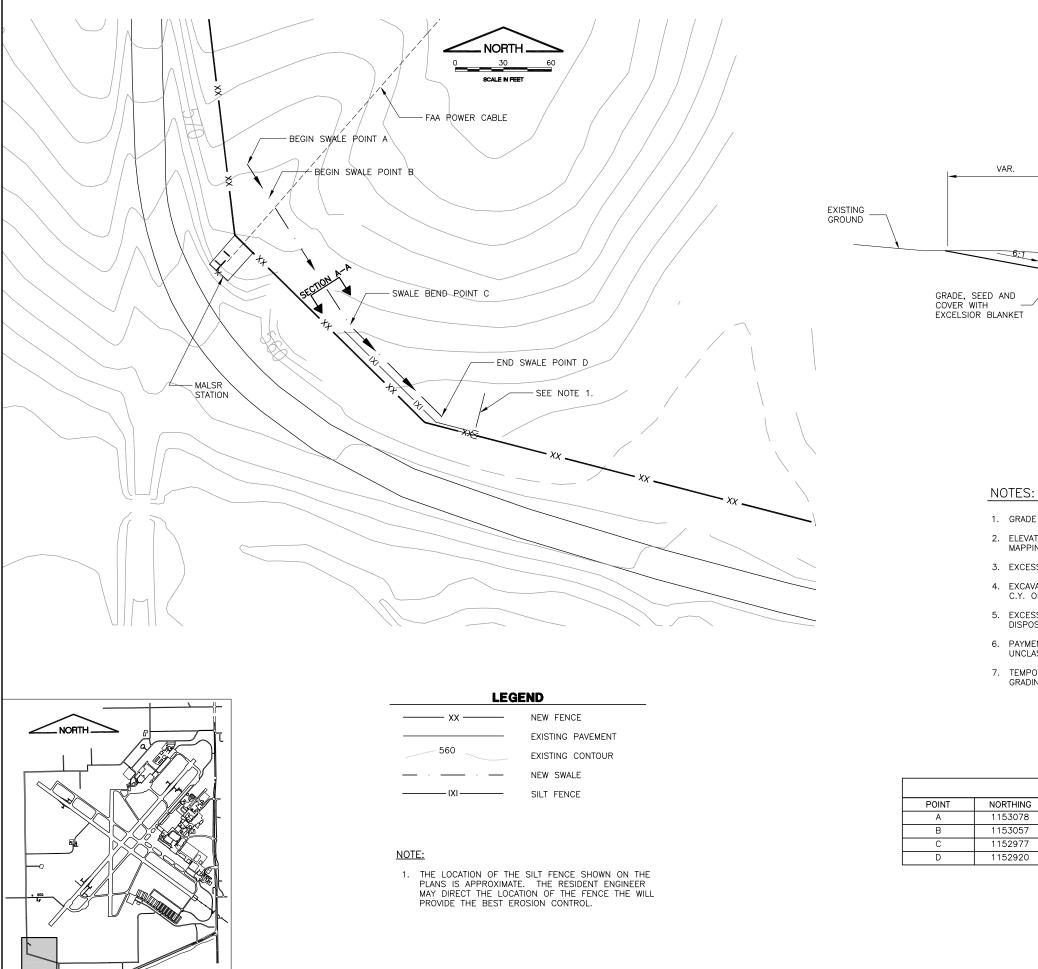
NORTH -AIP PROJ. NO. 3-17-0096-XX

CRAWFORD, N CONSULTING DESIGN BY: CBG CMT

DRAWN BY: CBG CHECKED BY: RLV APPROVED BY: 12/11/2009 JOB No: 08035-04-00 IL. PROJ. NO. SPI-3974

SHEET 11 OF 23 SHEETS





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→ NEW FENCE

SPRINGFIELD AIRPORT AUTHORITY ABRAHAM LINCOLN CAPITAL AIRPORT SPRINGFIELD, ILLINOIS

MALSR DRAINAGE IMPROVEMENTS PHASE PERIMETER FENCE UPGRADE

CRAWFORD, CONSULTING

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DRAWN BY:	СМТ
CHECKED BY:	CBG
APPROVED BY:	RLV
DATE:	12/11/2009
JOB No:	08035-04-00

IL. PROJ. NO. SPI-3974 AIP PROJ. NO. 3-17-0096-XX

SHEET 13 OF 23 SHEETS

1. GRADE AREA TO PROVIDE POSITIVE DRAINAGE.

VAR.

SEE NOTE 3

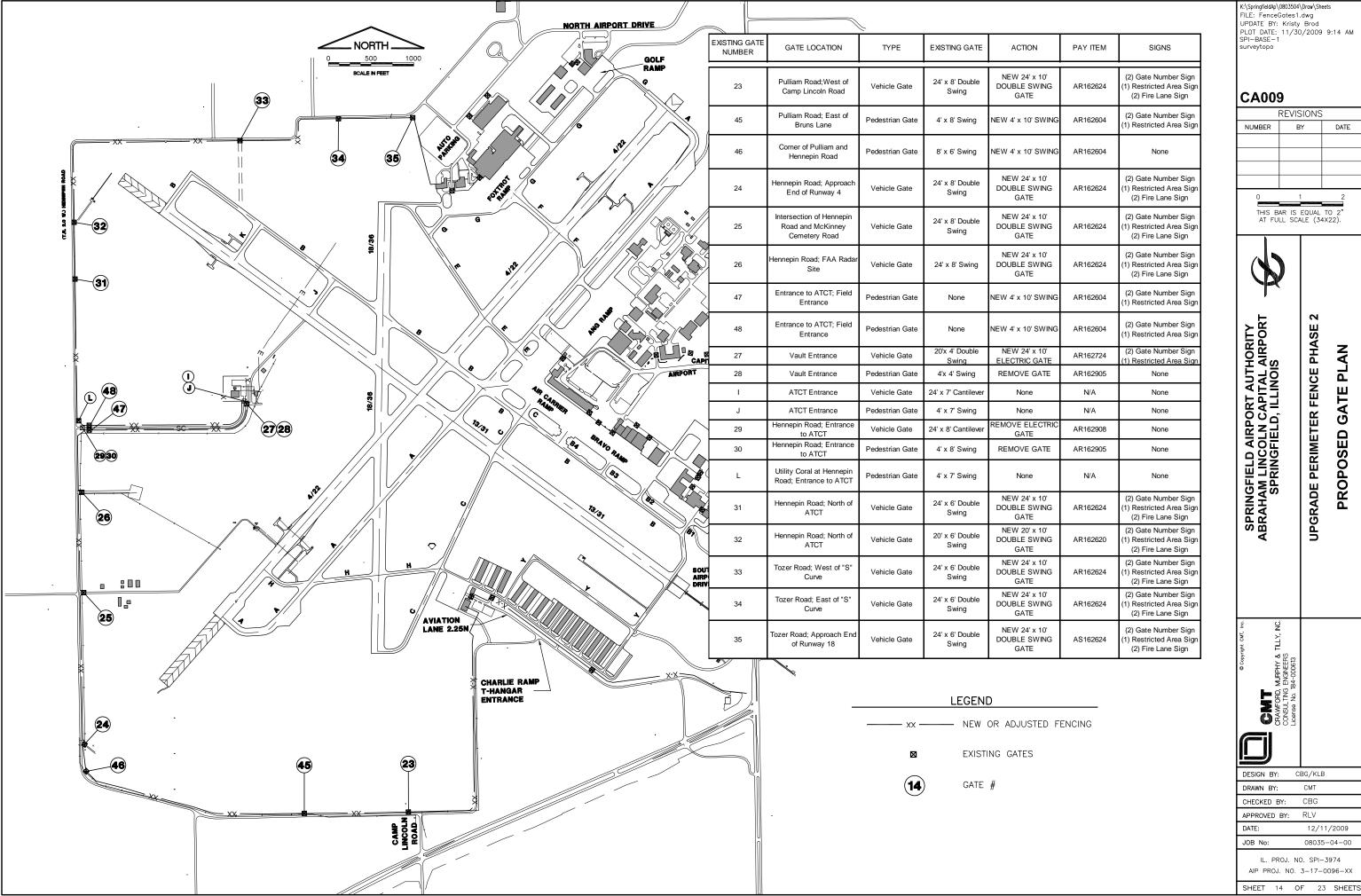
SECTION A-A

SWALE GRADING

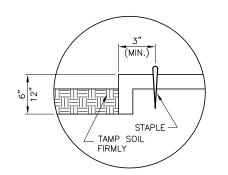
5' MIN.

- 2. ELEVATIONS SHOWN HAVE BEEN TAKEN FROM AERIAL MAPPING AND MAY NOT BE EXACT.
- 3. EXCESS CUT SHALL BE USED TO CONSTRUCT A BERM.
- 4. EXCAVATION OF SWALE WILL CREATE APPROXIMATELY 125 C.Y. OF EXCESS CUT.
- 5. EXCESS CUT NOT USED TO FORM EMBANKMENT SHALL BE DISPOSED OF AT A LOCATION APPROVED BY THE AIRPORT.
- 6. PAYMENT FOR GRADING SWALE SHALL BE MADE UNDER UNCLASSIFIED EXCAVATION.
- 7. TEMPORARY FENCE SHALL BE ADJUSTED TO ACCOMMODATE GRADING LIMITS DURING THIS PHASE.

SWALE DATA TABLE					
POINT	NORTHING	EASTING	ELEVATION	DISTANCE	SLOPE
Α	1153078	2429868	570.4	25	8.8%
В	1153057	2429881	568.2	95	3.5%
С	1152977	2429932	564.9	80	3.5%
D	1152920	2429989	562.1	1 00	3.3%

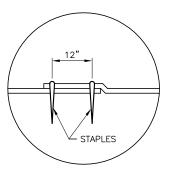


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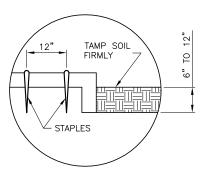


(MIN.)



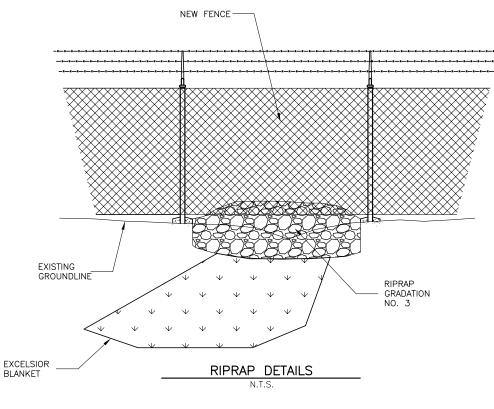
DETAIL 2 - JUNCTION SLOT

-DETAIL 3



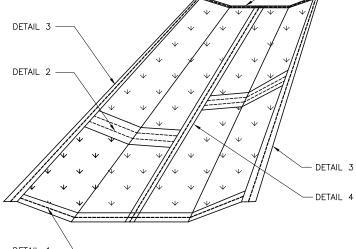
DETAIL 3 - ANCHOR SLOT

(MIN.)



RIPRAP DETAIL NOTES

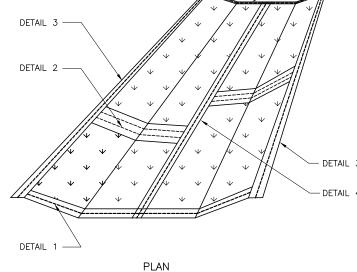
- 1. PLACE RIPRAP IN DRAINAGE AREAS AS DIRECTED BY THE ENGINEER.
- 2. INSTALL EXCELSIOR BLANKET IN AREAS THAT SHOW SIGNS OF EROSION AS DIRECTED BY ENGINEER.
- 3. RIPRAP IS ASSUMED TO BE 18" WIDE BY 18" TALL WHEN PLACED AGAINST THE FENCE FABRIC.
- 4. CONTRACTOR MAY INSTALL THE RIPRAP ALONG THE FENCE WITHOUT THE USE OF FILTER FABRIC WHERE APPROVED BY THE RESIDENT ENGINEER.



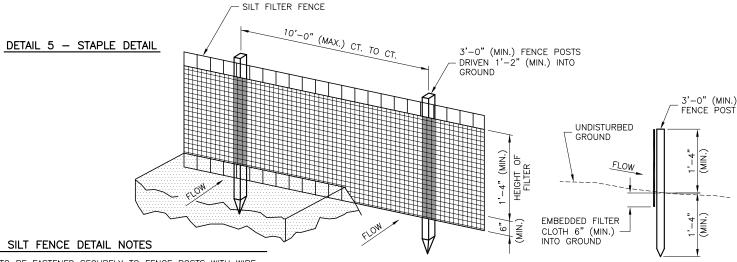
EXCELSIOR BLANKET NOTES

DETAIL 4 - LAP JOINT

- STAPLES TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3'
- 2. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
- 3. ALL TERMINALS ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.



EXCELSIOR BLANKET DETAILS



- 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 2'-0" AT TOP AND MID SECTION.
- 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" MINIMUM AND FOLDED.
- 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE. MAINTENANCE, WHICH INCLUDES THE REPLACEMENT OF DAMAGED FENCE SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE EROSION CONTROL FENCE.

PERSPECTIVE VIEW

SILT FENCE DETAIL

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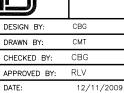


PHASI DETAIL FENCE CONTROL

SPRINGFIELD AIRPORT AUTHORITY ABRAHAM LINCOLN CAPITAL AIRPOR' SPRINGFIELD, ILLINOIS PERIMETER EROSION UPGRADE

CRAWFORD, CONSULTING

SECTION

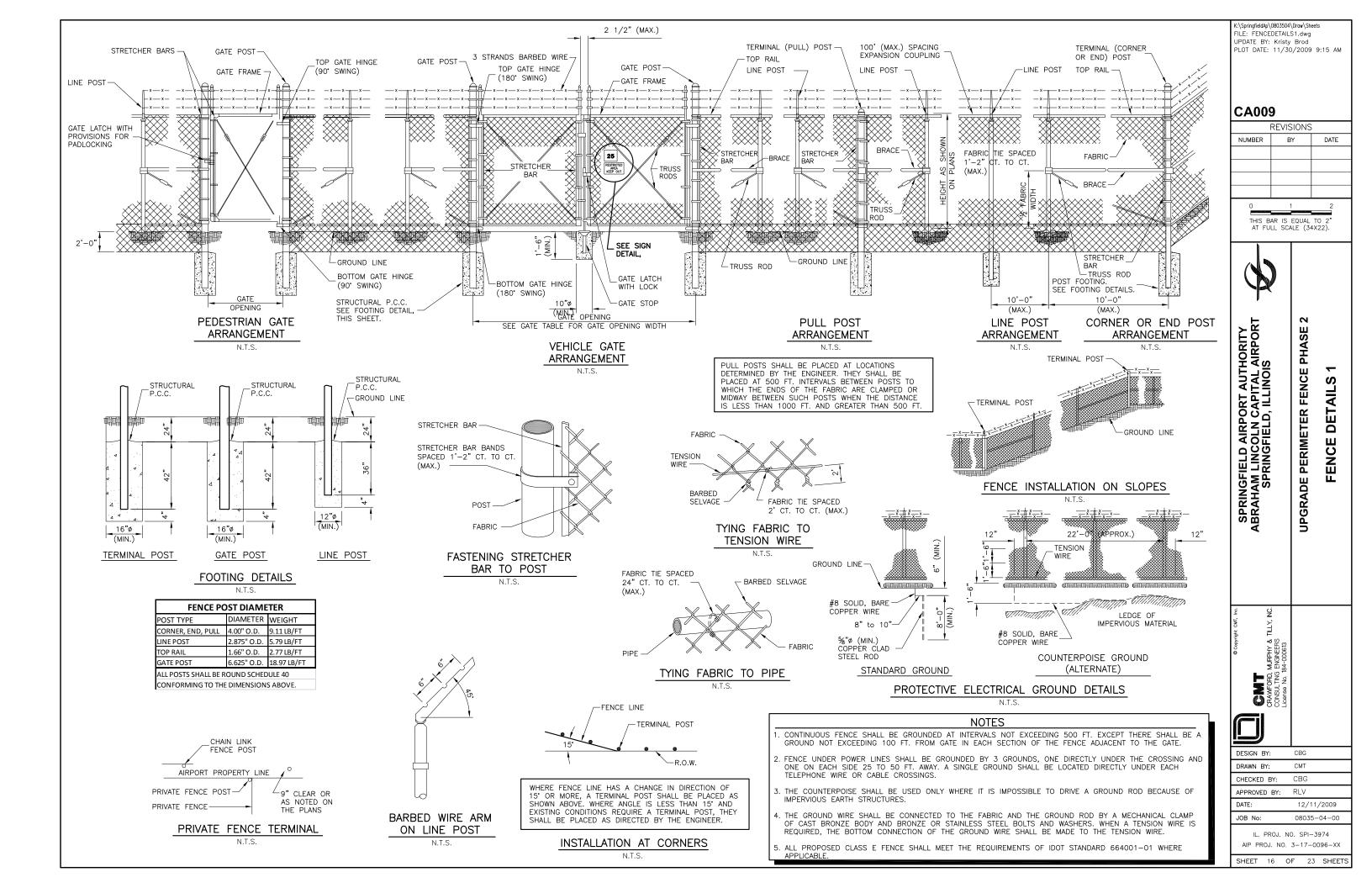


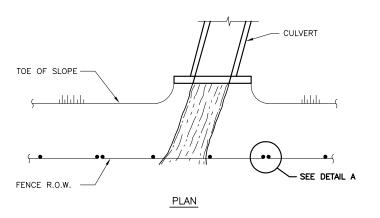
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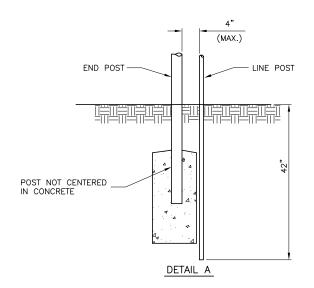
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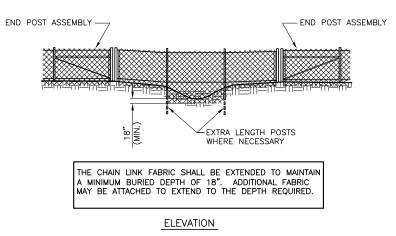
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SHEET 15 OF 23 SHEETS

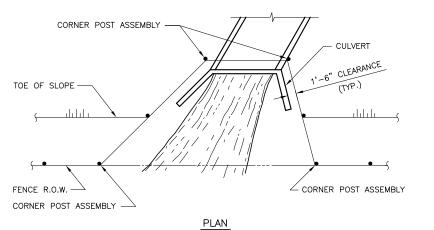


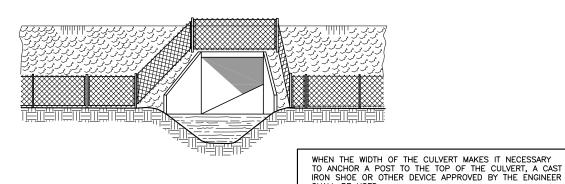




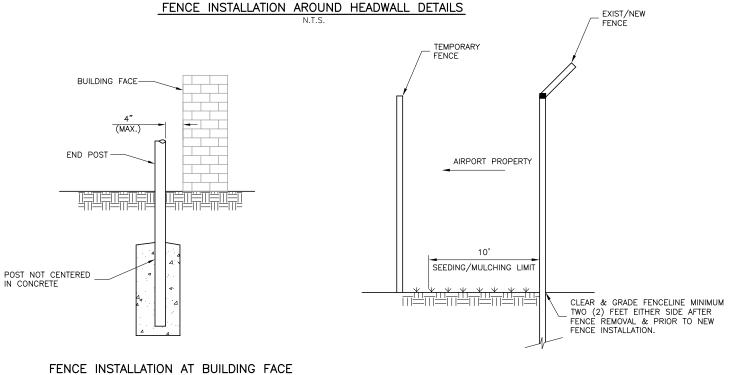


FENCE INSTALLATION OVER STREAM OR SWALES DETAILS





ELEVATION



SHALL BE USED.

___._

TEMPORARY FENCING - TYPICAL SECTION

NTS

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FILE: FENCEDETAILS2.dwg
UPDATE BY: Kristy Brod
PLOT DATE: 11/30/2009 9:16 AM

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SPRINGFIELD AIRPORT AUTHORITY
ABRAHAM LINCOLN CAPITAL AIRPORT
SPRINGFIELD, ILLINOIS
UPGRADE PERIMETER FENCE PHASE 2

UPGRADE PERIMETER FENCE PH. FENCE DETAILS 2

CRAWFORD, MURPHY & TILLY, NC. CONSULTING ENGINEERS License No. 184-000613

DESIGN BY: CBG

DRAWN BY: CMT

CHECKED BY: CBG

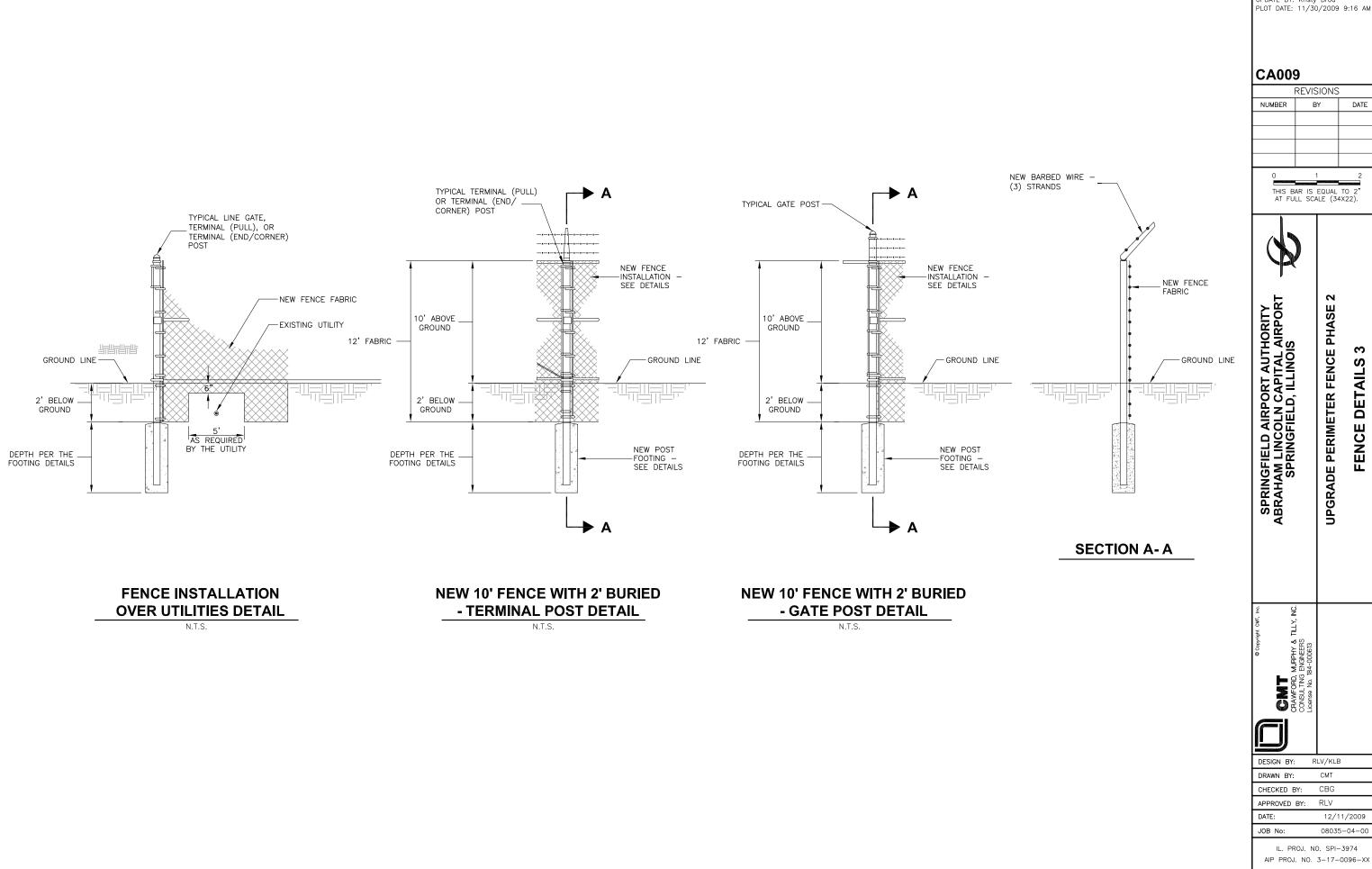
APPROVED BY: RLV

DATE: 12/11/2009

JOB No: 08035-04-00

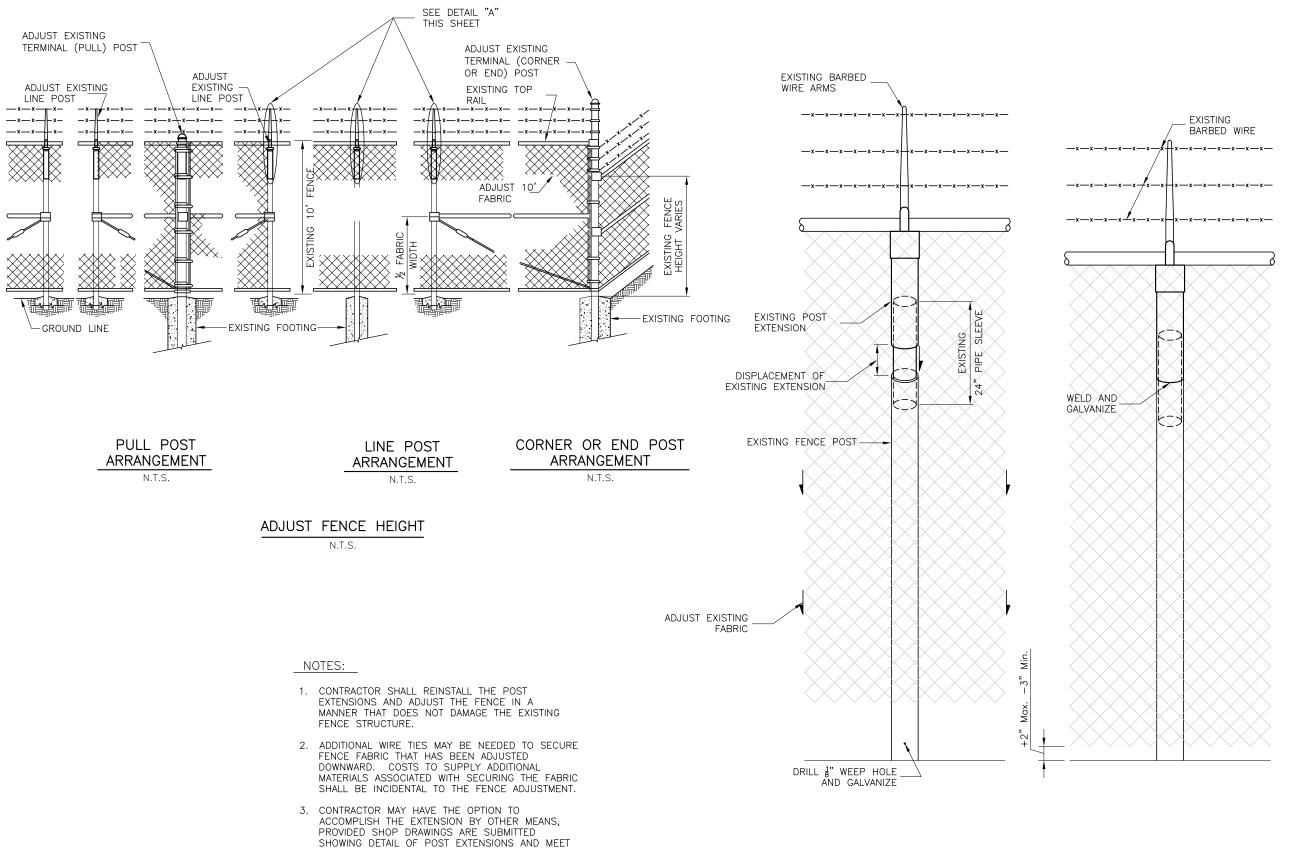
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SHEET 17 OF 23 SHEETS



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SHEET 18 OF 23 SHEETS



THE ENGINEER'S APPROVAL.

FENCE ADJUSTMENT DETAIL N.T.S.

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SPRINGFIELD AIRPORT AUTHORITY
ABRAHAM LINCOLN CAPITAL AIRPORT
SPRINGFIELD, ILLINOIS
UPGRADE PERIMETER FENCE PHASE 2
FENCE DETAILS 4

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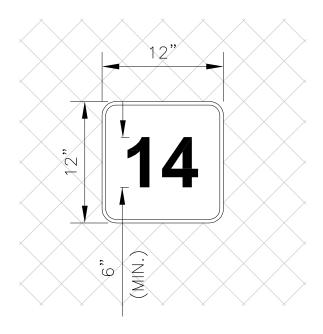
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 08035-04-00

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SHEET 19 OF 23 SHEETS



GATE NUMBER SIGN N.T.S.





N.T.S.

NOTES:

- SEE PROPOSED GATE PLAN FOR TYPES OF SIGNS REQUIRED AT EACH GATE.
- 2. GATE NUMBER AND RESTRICTED AREA SIGNS SHALL BE INSTALLED ON ALL NEW GATES. COST TO PROVIDE AND INSTALL SIGNS SHALL BE INCIDENTAL TO THE COST TO PROVIDE THE ASSOCIATED GATE.
- 3. IN ADDITION TO THE SIGNS IN NOTE 2. ALL VEHICLE GATES SHALL INCLUDE FIRE LANE SIGNS. COST TO PROVIDE AND INSTALL SIGNS SHALL BE INCIDENTAL TO THE COST TO PROVIDE THE GATE.
- 4. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF EACH SIGN. SHOP DRAWINGS SHALL MEET THE APPROVAL OF THE AIRPORT AND ENGINEER PRIOR TO MANUFACTURE AND INSTALLATION.
- 5. SIGNS SHALL BE 0.08 GA. ALUMINUM ALLOY SHEET
- 6. LETTERING COLOR SHALL BE RED ON WHITE BACKGROUND.
- 7. EVERY 100' OF FENCE SHALL REQUIRE ONE RESTRICTED AREA SIGN. EVERY STRAIGHT SECTION OF FENCE SHALL REQUIRE MINIMUM ONE RESTRICTED AREA SIGN.
- 8. SEE ELECTRIC GATE DETAIL 1 FOR ADDITIONAL GATE RELATED
- 9. COSTS TO PROVIDE AND INSTALL SIGNS SHALL BE INCIDENTAL TO CONTRAT PAY ITEMS.

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PERIMETER FENCE UPGRADE

SIGN DETAIL

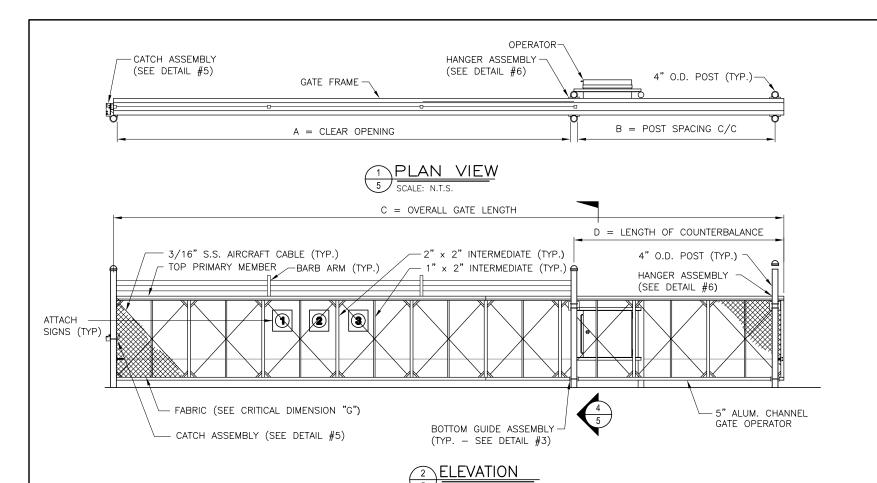
CRAWFORD, CONSULTING



DESIGN BY: CBG DRAWN BY: CMT CBG CHECKED BY: RLV APPROVED BY: DATE: 12/11/2009 JOB No: 08035-04-00

> IL. PROJ. NO. SPI-3974 AIP PROJ. NO. 3-17-0096-XX

SHEET 20 OF 23 SHEETS



CANTILEVER SLIDE GATE CRITICAL DIMENSION CHART		
Α	CLEAR OPENING	24'-0"
В	COUNTERBALANCE POST SPACING C/C	11'-1"
С	OVERALL GATE LENGTH	36'-0"
D	COUNTERBALANCE LENGTH	12'-0"
Е	NOMINAL GATE HEIGHT	8'-0"
F	POST HEIGHT	9'-6"
G	FABRIC HEIGHT	7'-0"
Н	NOMINAL WEIGHT	594 LBS

	SIGNS					
CONT	RACTOR SHAL	L FURNISH AND	INSTALL	. SIGNS A	AS INDICATED IN TABLE BELOW	
		BACKGROUND	LETTI	ERING		
SIGN	DIMENSIONS	COLOR	COLOR	HEIGHT	TEXT	
1	24' x 18"	WHITE	RED	1.5"	FAA REGULATIONS REQUIRE	
					THAT AFTER ENTERING OR	
					EXITING THROUGH THIS	
					SECURITY GATE YOU ARE	
					REQUIRED TO WAIT UNTIL THE	
					GATE CLOSES BEFORE	
					PROCEEDING. FINES OR	
					PENALTIES WILL BE IMPOSED.	
2	18" x 12"	WHITE	RED	4"	GATE #27	
3	SEE WARNING SIGN DETAIL					

1) SIGNS #1 AND #3 SHALL BE INSTALLED ON BOTH SIDES OF GATE. SIGN #2 SHALL BE INSTALLED ON "LAND" SIDE OF GATE.



WARNING SIGN DETAIL

UL 235 COMPLIANCE NOTES

GATE INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF UL 235, INCLUDING, BUT NOT LIMITED TO:

- ALL OPENINGS OF THE SLIDE GATE ARE GUARDED OR SCREENED FROM THE BOTTOM OF THE GATE TO A MINIMUM OF 4 FEET ABOVE GROUND TO OPENINGS ANYWHERE IN THE GATE, AND IN THAT PORTION OF THE ADJACENT FENCE THAT THE GATE COVERS IN THE OPEN POSITION.
- 2. ALL EXPOSED PINCH POINTS ARE ELIMINATED OR GUARDED AND GUARDING IS SUPPLIED FOR ALL EXPOSED ROLLERS.
- 3. A WARNING SIGN (SEE DETAIL, THIS SHEET) MUST BE AFFIXED TO BOTH SIDES OF THE SLIDE GATE.
- 4. FOR ADDITIONAL UL 235 REQUIREMENTS FOR THIS GATE INSTALLATION, SEE GATE OPERATOR DETAILS SHEET.

NOTES

- 1. CANTILEVERED GATE SHALL BE SUFFICIENTLY RIGID TO WITHSTAND FLEXING OR BENDING DURING WINDY CONDITIONS. CONTRACTOR SHALL PROVIDE
 STIFFENERS, STRUCTURAL SHAPES IN EXCESS OF THE MINIMUM SPECIFIED DIMENSIONS OR ADDITIONAL ROLLERS AND POSTS SUFFICIENT TO PREVENT DISPLACEMENT OF THE GATE BY WIND OR BY UNAUTHORIZED PERSONNEL.
- 2. CONTRACTOR SHALL PROVIDE AND INSTALL GATE AS COMPLETE WORKING UNIT. THE GATE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO: GATE, OPERATOR, DIGITAL CODE CONTROL AND POWER CABLES, CONDUIT, TRENCHING, CIRCUIT BREAKERS, AND ALL CONNECTIONS, LABOR AND MATERIALS NECESSARY TO COMPLETE OPERATION.
- 3. LOCATION OF THE GATE OPERATOR SHALL BE AS RECOMMENDED BY THE
- 4. PIPE BOLLARDS SHALL BE INSTALLED AT LOCATIONS SHOWN IN PLAN VIEW.
- 5. THE FABRIC TYPE AND FINISH OF THE GATE, MATCH WITH PROPOSED FENCE OR AS DIRECTED BY THE ENGINEER.
- 6. ALL SLIDING GATES SHALL HAVE ALL ROLLERS ENCLOSED IN STEEL OR PLASTIC SHROUDS TO PREVENT ACCIDENTAL INJURY.

LOCATIONS, DETAILS AND CHARACTER OF EQUIPMENT SHOWN ON THIS SHEET IS GENERIC. EQUIPMENT LOCATIONS SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.

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DETAIL FENCE GATE PERIMETER **ECTRIC** UPGRADE 핍

9 CRAWFORD, CONSULTING



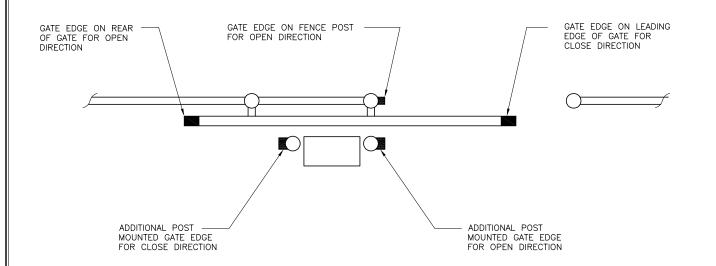
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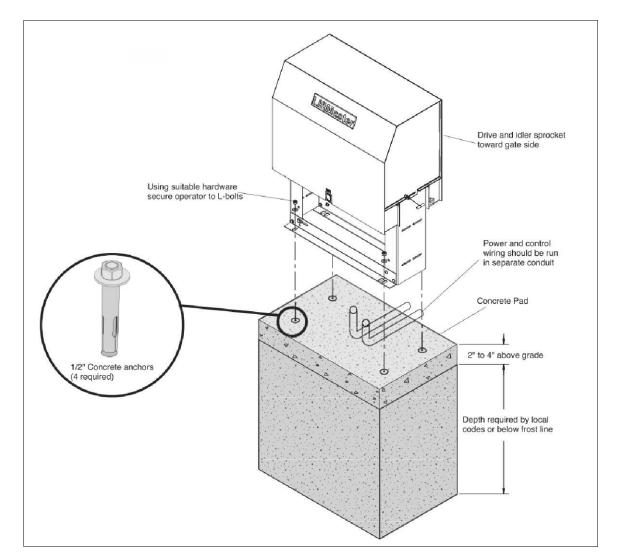
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SHEET 21 OF 23 SHEETS

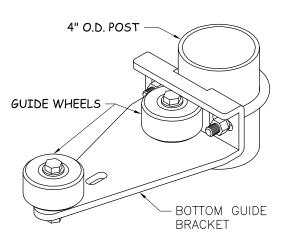


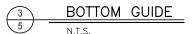
SECONDARY GATE OPERATOR ENTRAPMENT PROTECTION CONTACT SENSORS

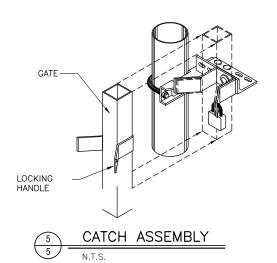
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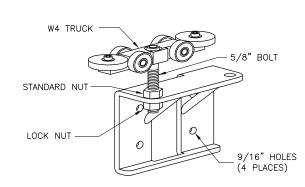


GATE OPERATOR FOUNDATION



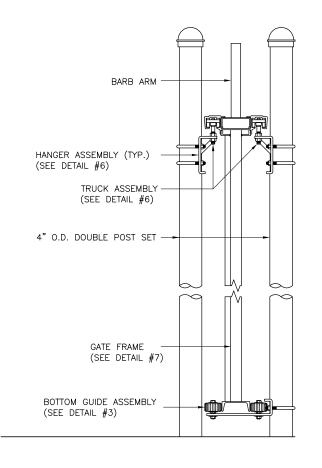


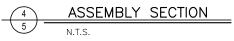


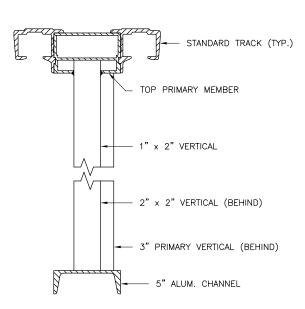




CANTILEVER SLIDE GATE DETAILS









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FILE: ELECTRIC GATE DET2.dwg
UPDATE BY: Kristy Brod
PLOT DATE: 11/30/2009 9:18 AM
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SPRINGFIELD AIRPORT AUTHORITY ABRAHAM LINCOLN CAPITAL AIRPORT SPRINGFIELD, ILLINOIS SE PHASE 2

UPGRADE PERIMETER FENCE PH.
ELECTRIC GATE DETAIL

CRAWFORD, MURPHY & TILLY, NC. CONSULTING ENGINEERS License No. 184-000613

DESIGN BY: WDP

DRAWN BY: CMT

CHECKED BY: CBG

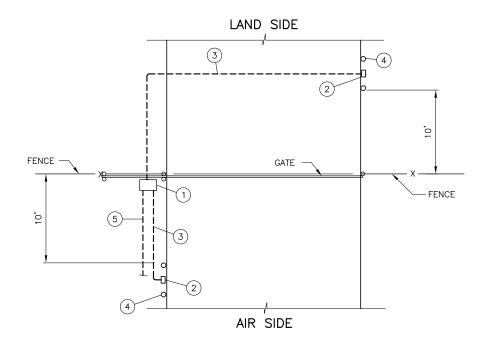
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DATE: 12/11/2009

JOB No: 08035-04-00

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SHEET 22 OF 23 SHEETS



GATE NO. 27

- (1) CANTILEVER SLIDE GATE, CHAMBERLAIN LIFTMASTER MODEL SL 575, 1/2 HP, 120V, SINGLE PHASE, OR EQUIVALENT, SUITABLE FOR A MAXIMUM GATE WEIGHT OF 1200 LBS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PROXIMITY CARD READER, EXTENDED RANGE, WIEGAND INTERFACE, HID MAXI-PROX, IN NEMA 4X ENCLOSURE, AAS REMOTEPRO CR, OR EQUIVALENT, MOUNTED TO AAS-18-001, OR EQUIVALENT, GOOSENECK STAND ANCHORED TO CONCRETE FOUNDATION PER MANUFACTURER REQUIREMENTS.
- 6-CONDUCTOR #18 SHIELDED CABLE IN 1" CONDUIT. CONTRACTOR SHALL VERIFY WITH CARD READER MANUFACTURER.
- 48" TALL, 6" DIAMETER, CONCRETE—FILLED STEEL POST, EMBEDDED 48"
 INTO A 12" DIAMETER CONCRETE FOUNDATION. ABOVE GRADE PORTION OF
 POST TO BE PAINTED WITH MINIMUM OF TWO COATS BRIGHT YELLOW EPOXY
 PAINT. (TYPICAL OF FOUR.)
- (5) WIRING TO VAULT:

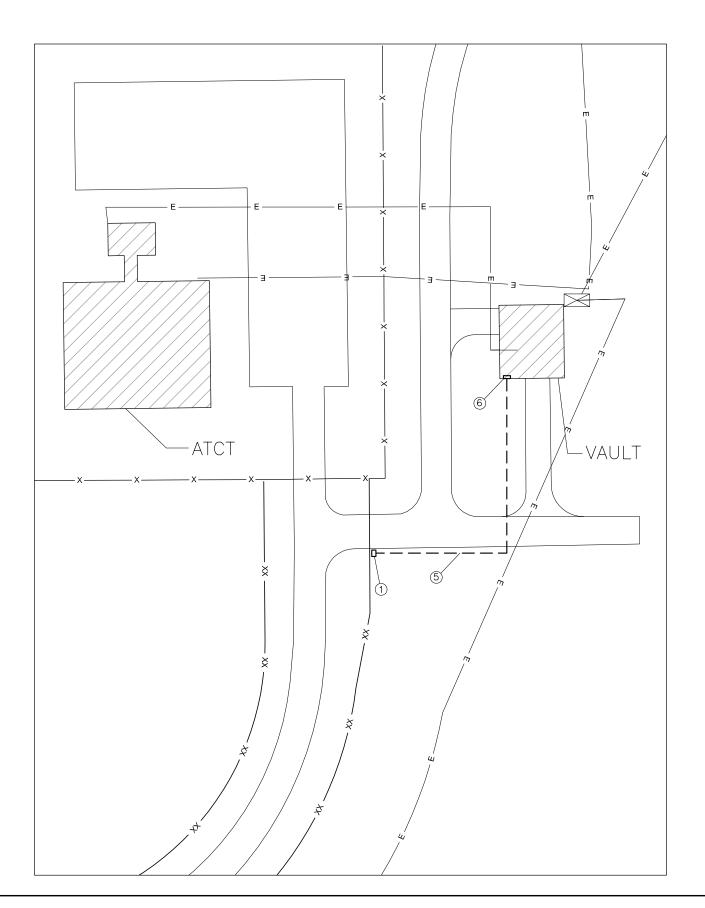
 TWO #8 THWN (120V), ONE #10 GROUND IN 3/4" CONDUIT TO EXISTING SPARE 20A 1P CIRCUIT BREAKER IN EXISTING LIGHTING PANEL.

 TWO 6-CONDUCTOR #18 SHIELDED CABLE (CARD READER), TWO #14 THWN (GATE OPEN CONTROL) IN 1-1/2" CONDUIT TO NEW GATE CONTROLLER IN VAULT.

CONTRACTOR SHALL JACK NEW CONDUITS UNDER EXISTING PAVEMENT.

6 NEW GATE CONTROLLER, AAS PROACCESS 200, OR EQUIVALENT, WALL-MOUNTED INSIDE VAULT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

ALL SPLICES SHALL BE MADE USING TWIST-ON CONNECTORS PRE-FILLED WITH SILICONE-BASED SEALANT TO PROTECT AGAINST MOISTURE AND CORROSION.



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SPRINGFIELD AIRPORT AUTHORITY
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SPRINGFIELD, ILLINOIS

UPGRADE PERIMETER FENCE PHASI

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SHEET 23 OF 23 SHEETS