CONSTRUCTION PLANS FOR ABRAHAM LINCOLN CAPITAL AIRPORT

SPRINGFIELD AIRPORT AUTHORITY SPRINGFIELD, ILLINOIS

ILLINOIS PROJECT SPI - 4088
A. I. P. PROJECT 3-17-0096-XX

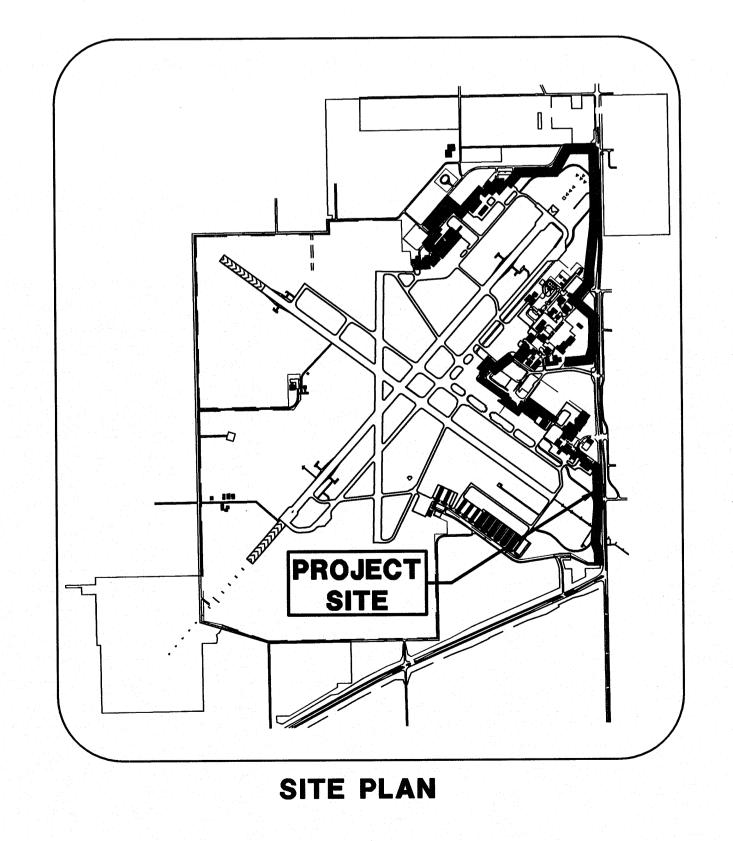
UPGRADE PERIMETER FENCE - PHASE 3

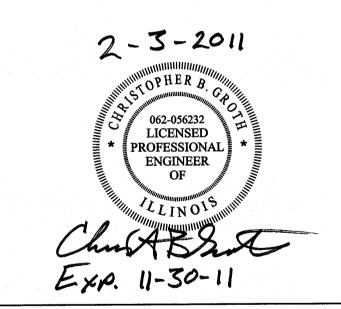
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
	BASE BID		
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1
AR151455	CLEARING AND GRUBBING	L.S.	1
AR156510	SILT FENCE	L.F.	250
AR156543	RIPRAP-GRADATION NO. 3	S.Y.	150
AR800241	CLASS E FENCE 10' W/ 2' BURIED	L.F.	8590
AR162510	CLASS E FENCE 10'	L.F.	3300
AR162604	CLASS E GATE - 4'	EACH	6
AR162606	CLASS E GATE - 6'	EACH	1
AR800243	PEDESTRIAN ACCESS	EACH	3
AR162624	CLASS E GATE - 24'	EACH	3
AR162714	ELECTRIC GATE - 14'	EACH	1
AR162716	ELECTRIC GATE - 16'	EACH	2
AR162720	ELECTRIC GATE - 20'	EACH	3
AR162724	ELECTRIC GATE 24'	EACH	4 3 3 3
AR162726	ELECTRIC GATE - 26'	EACH	2
AR162900	REMOVE CLASS E FENCE	L.F.	11650
AR162905	REMOVE GATE	EACH	15
AR162908	REMOVE ELECTRIC GATE	EACH	11
AR401900	REMOVE HMA PAVEMENT	SY	680
AR501508	8" PCC PAVEMENT	SY	700
AR901510	SEEDING	ACRE	5
AR908510	MULCHING	ACRE	5
AR908520	EXCELSIOR BLANKET	S.Y.	600

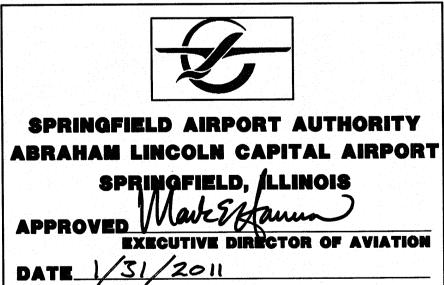
SUMMARY OF QUANTITIES

JANUARY 14, 2011

PROJECT SEE SEE SEE SEE SEE SEE SEE SEE SEE SE
LOCATION
JEFFERSON ST. VETERINS PANT.
SPRINGFIELD
1-72
LOCATION MAP









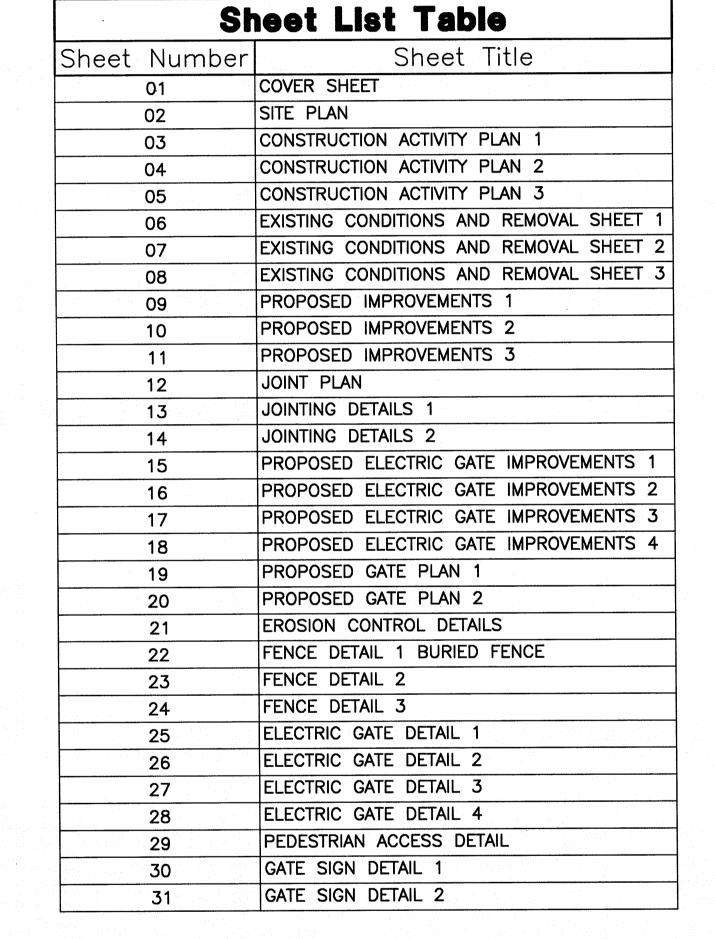
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SUBMITTED BY CLUB RESERVED

DATE 2-3-2011

CMT JOB NUMBER 08035-04





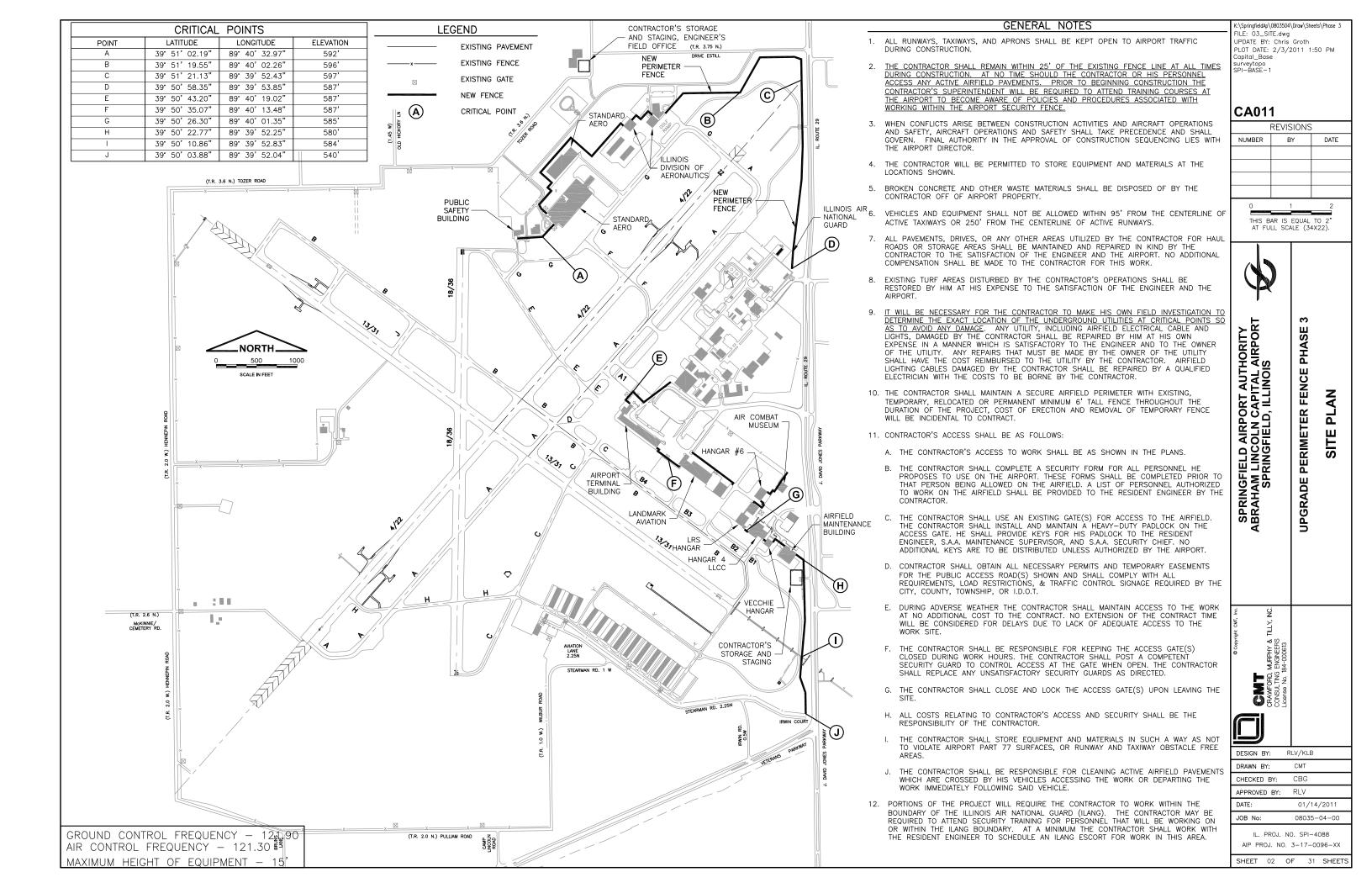
JOINT UTILITY LOCATING
INFORMATION FOR EXCAVATORS
www.illinois1call.com

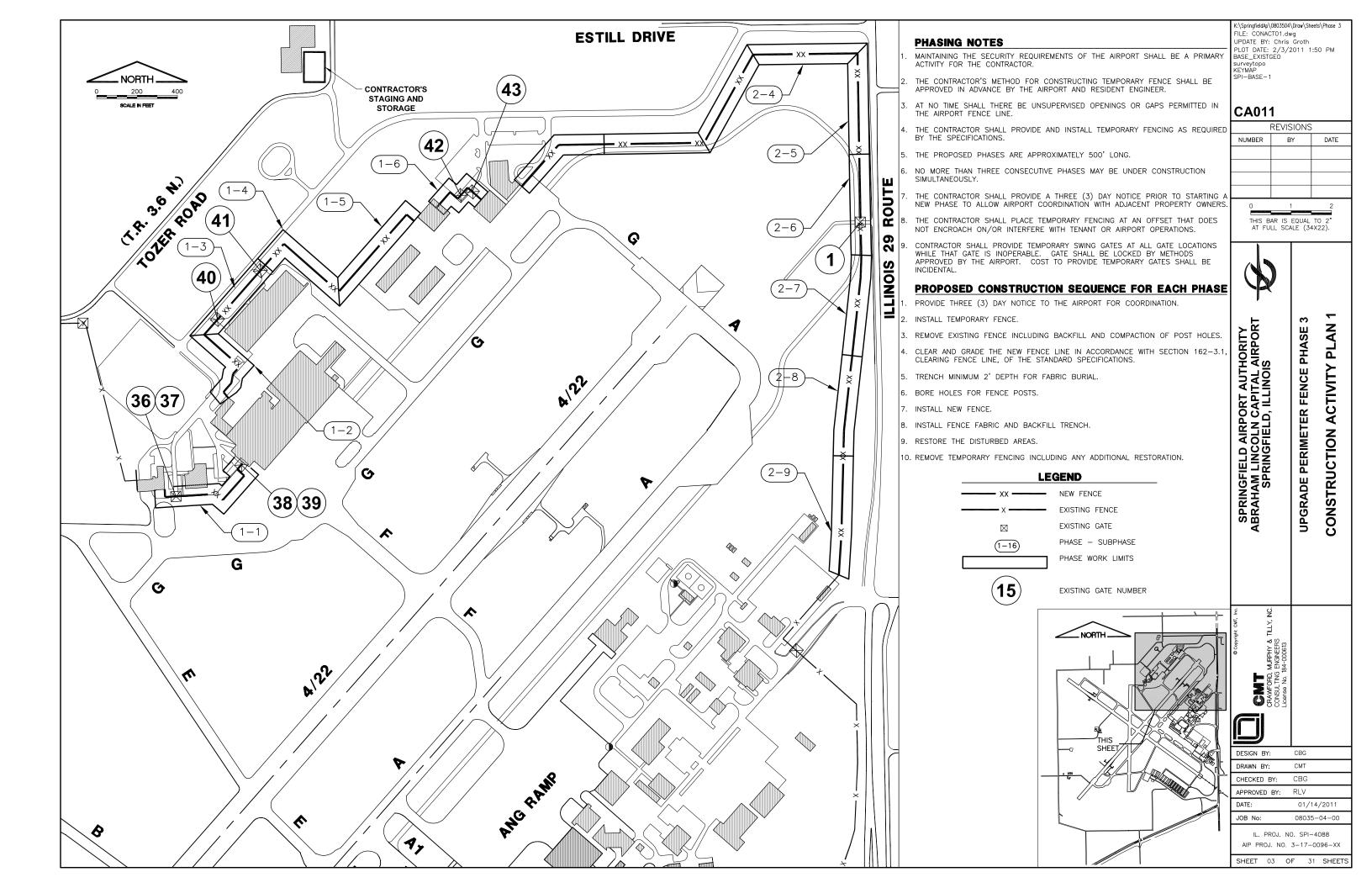
THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ACTUAL LOCATIONS OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF HIS OPERATIONAL PLANS, OBTAIN FROM 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 AND THE ONE-CALL NOTICE SYSTEM. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH UTILITY OR SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

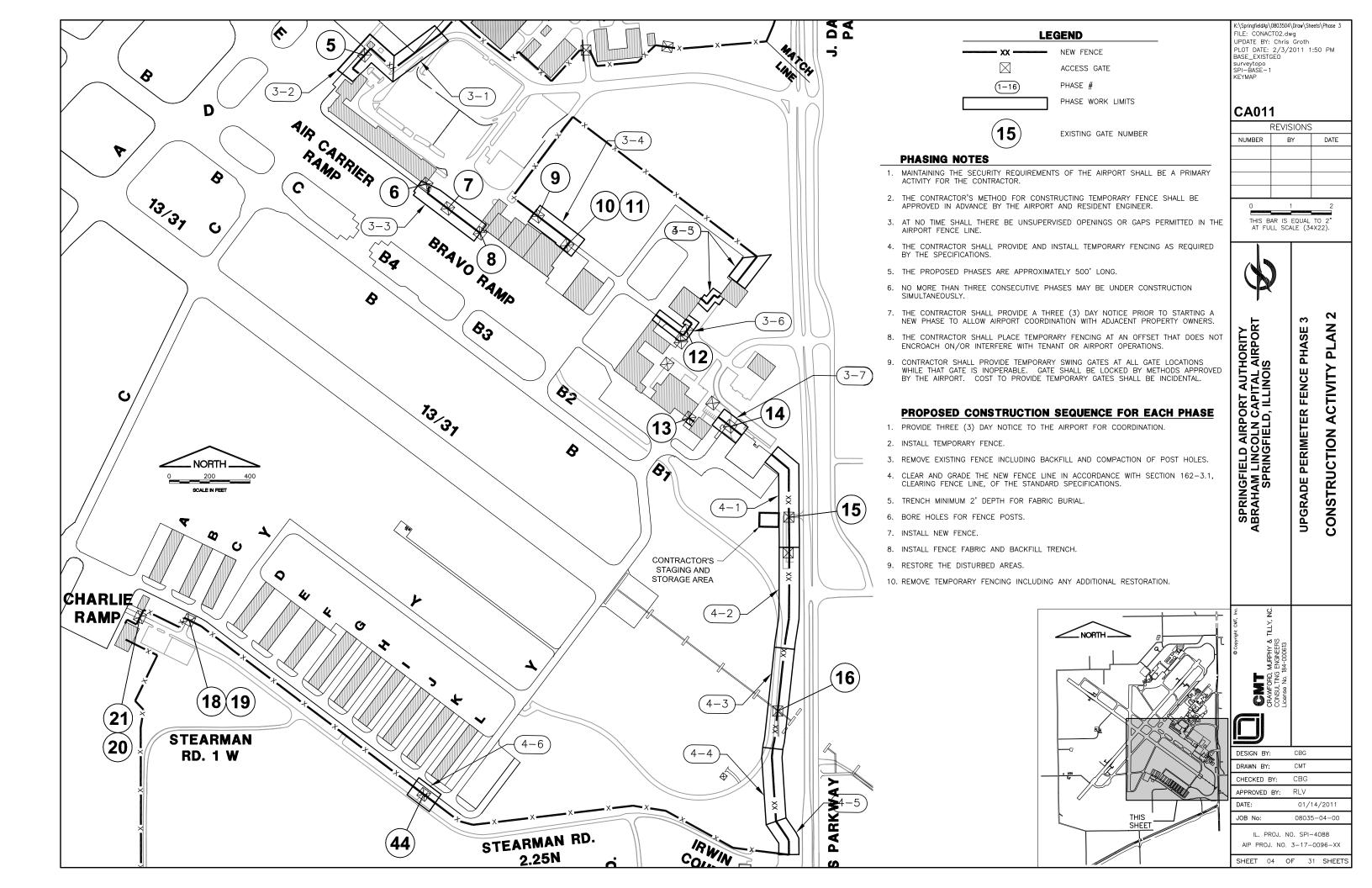
CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 811.

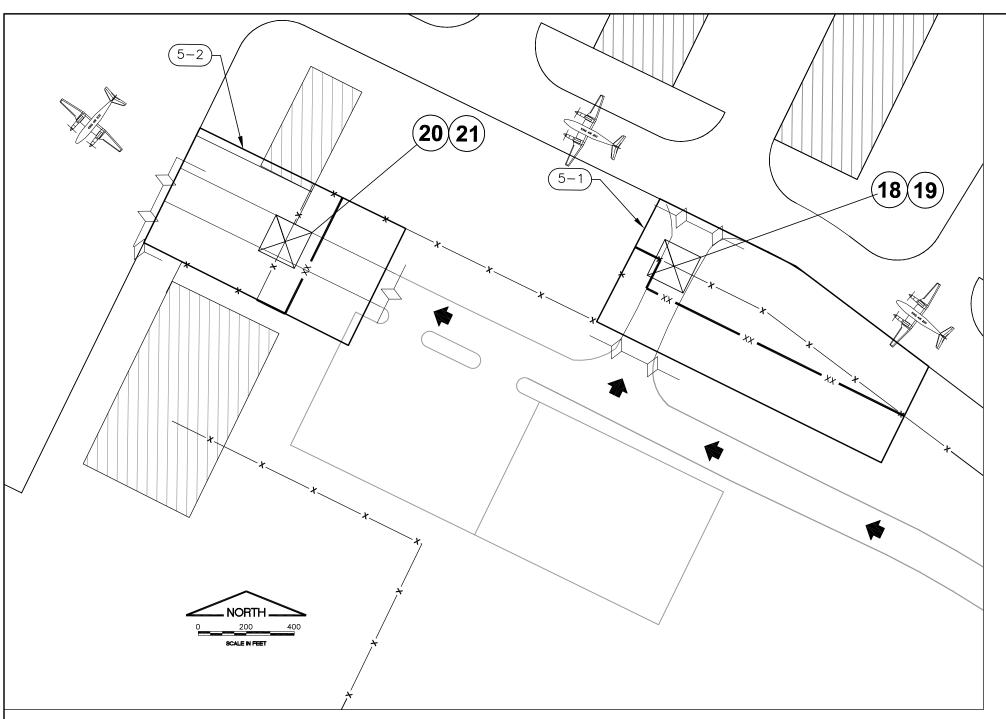
CALL J.U.L.I.E. BEFORE EXCAVATING 1-800-892-0123

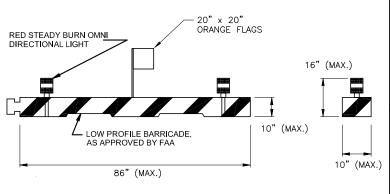
TOWNSHIP: 16 NORTH
RANGE: 5 WEST OF THE 4TH P.M.
SECTION: 8 & 9 & 16 & 17
COUNTY: SANGAMON
CIVIL TOWNSHIP: CAPITAL



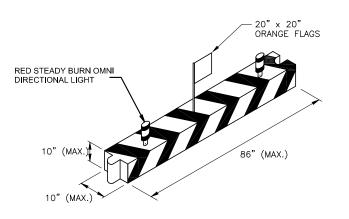








TYPE 1 BEAM BARRICADE DETAIL



- 2. BARRICADE MUST BE OF LOW MASS AND EASILY COLLAPSIBLE UPON CONTACT WITH AN AIRCRAFT.
- COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- 4. PLACE AS SHOWN IN PLANS AS DIRECTED BY THE ENGINEER.

BEAM BARRICADE NOTES

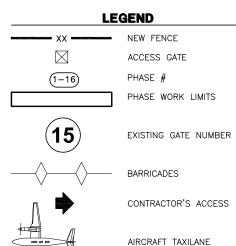
- 1. BARRICADE SHALL BE WEIGHTED TO WITHSTAND DISPLACEMENT BY WIND, JET OR PROP BLAST.
- 3. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM.

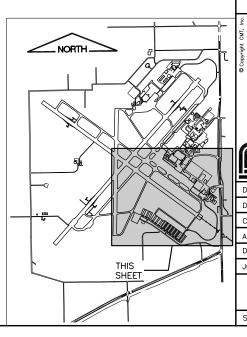
PROPOSED CONSTRUCTION SEQUENCE FOR EACH PHASE

- 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.
- 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.

PHASE 5-1 & 5-2 NOTES

- 1. THE CONTRACTOR SHALL ERECT BARRICADES AS SHOWN TO DELINEATE THE WORK AREA.
- 2. THE CONTRACTOR BE ALLOWED TO REMOVE PORTIONS OF THE FENCE AS NEEDED TO REMOVE EXISTING PAVEMENT AND CONSTRUCT NEW PAVEMENTS. THE CONTRACTOR SHALL NOT LEAVE ANY PORTIONS OF THE GATE UNATTENDED DURING CONSTRUCTION.
- 3. MAINTAINING THE SECURITY REQUIREMENTS OF THE AIRPORT SHALL BE A PRIMARY ACTIVITY
- 4. TEMPORARY FENCE SHALL BE PLACED A MAXIMUM OF 5' FROM THE EXISTING FENCE.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL TEMPORARY FENCING AS REQUIRED BY THE SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL PROVIDE A SEVEN (7) DAY NOTICE PRIOR TO STARTING A NEW PHASE TO ALLOW AIRPORT COORDINATION WITH ADJACENT PROPERTY OWNERS.
- CONTRACTOR SHALL PROVIDE TEMPORARY SWING GATES AT ALL GATE LOCATIONS WHILE THAT GATE IS INOPERABLE. GATE SHALL BE LOCKED BY METHODS APPROVED BY THE AIRPORT. COST TO PROVIDE TEMPORARY GATES SHALL BE INCIDENTAL.





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SPRINGFIELD AIRPORT ABRAHAM LINCOLN CAPI SPRINGFIELD, ILL

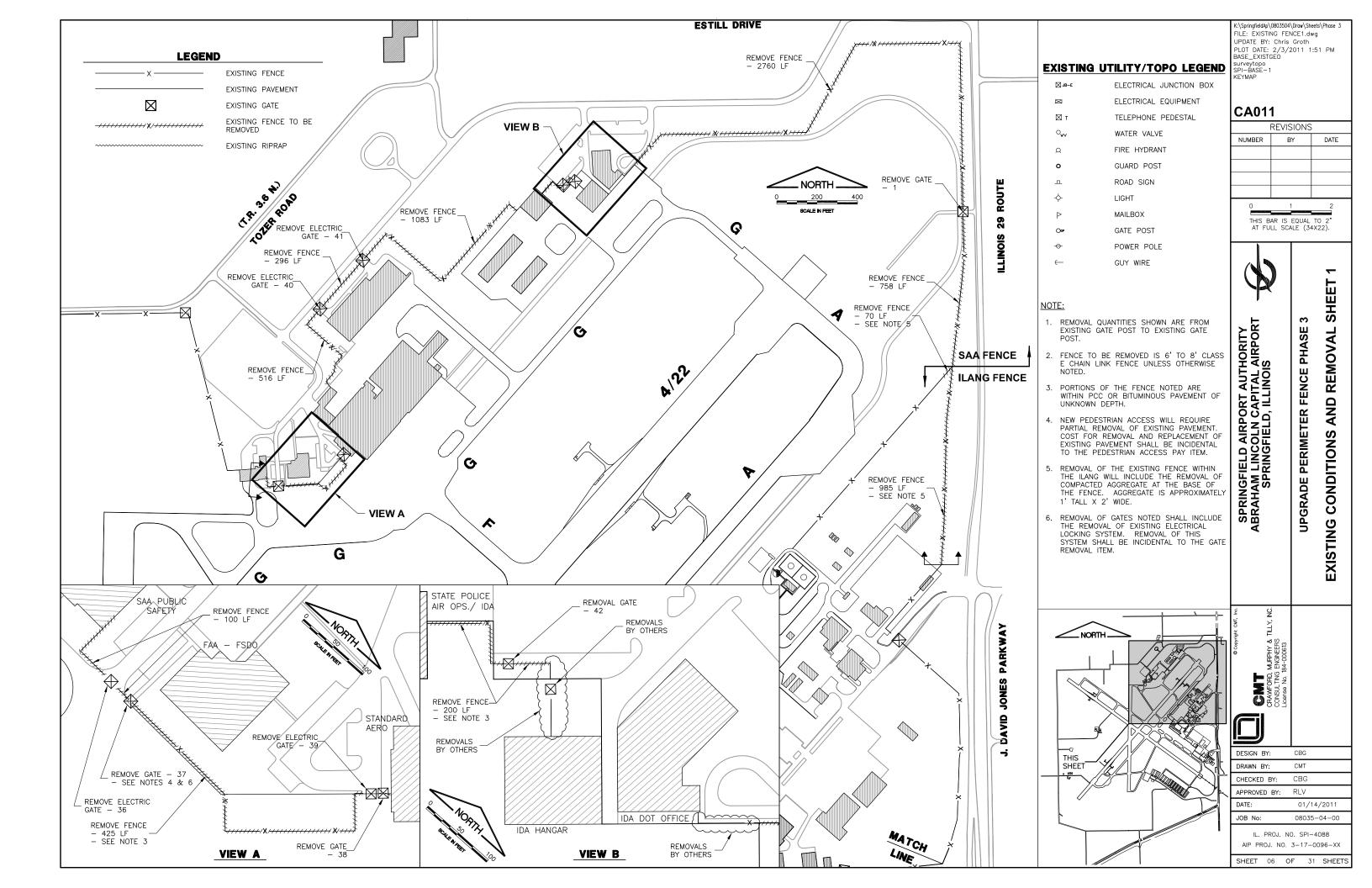
S PLAN ACTIVITY FENCE PERIMETER CONSTRUCTION UPGRADE

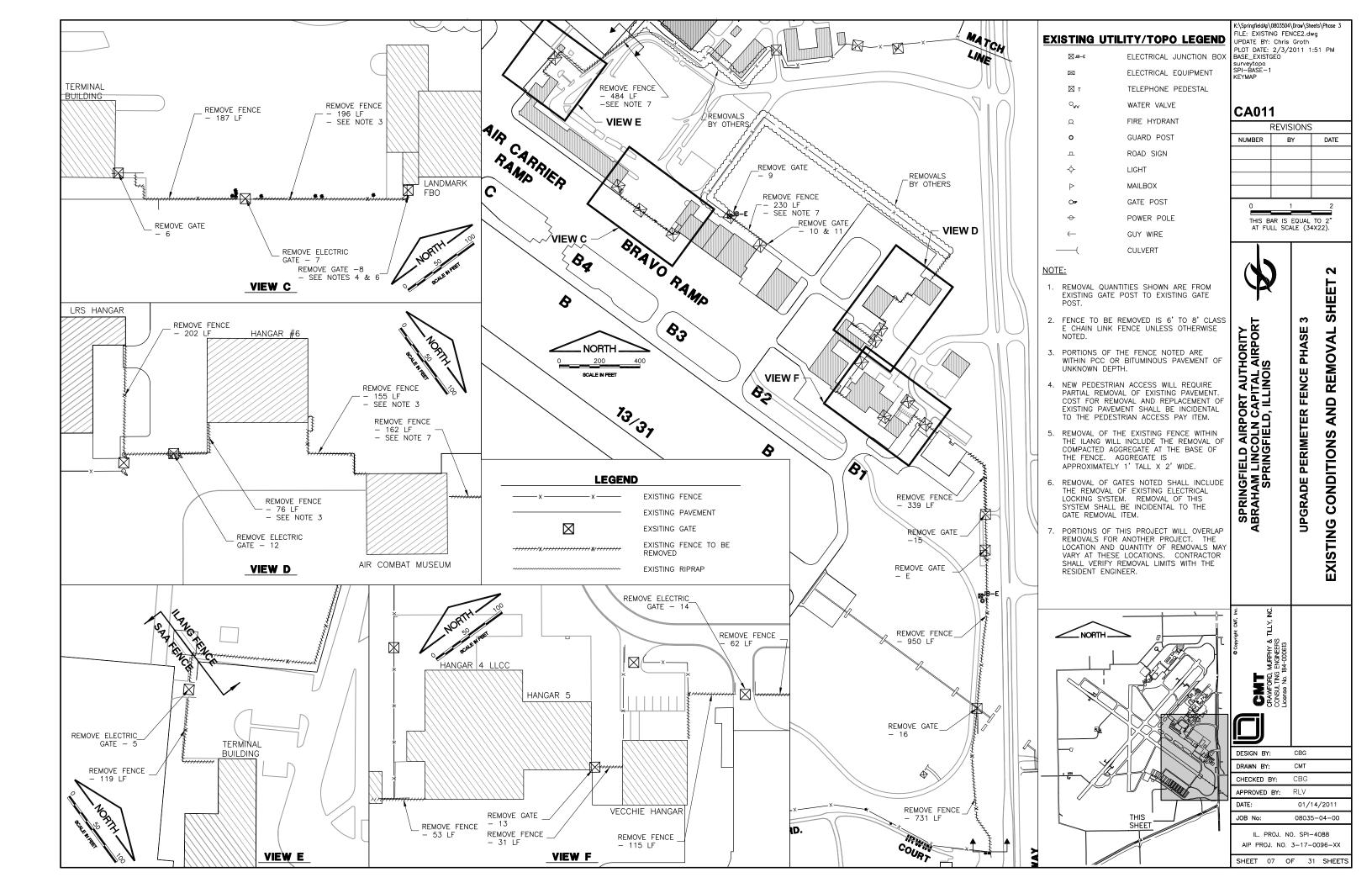
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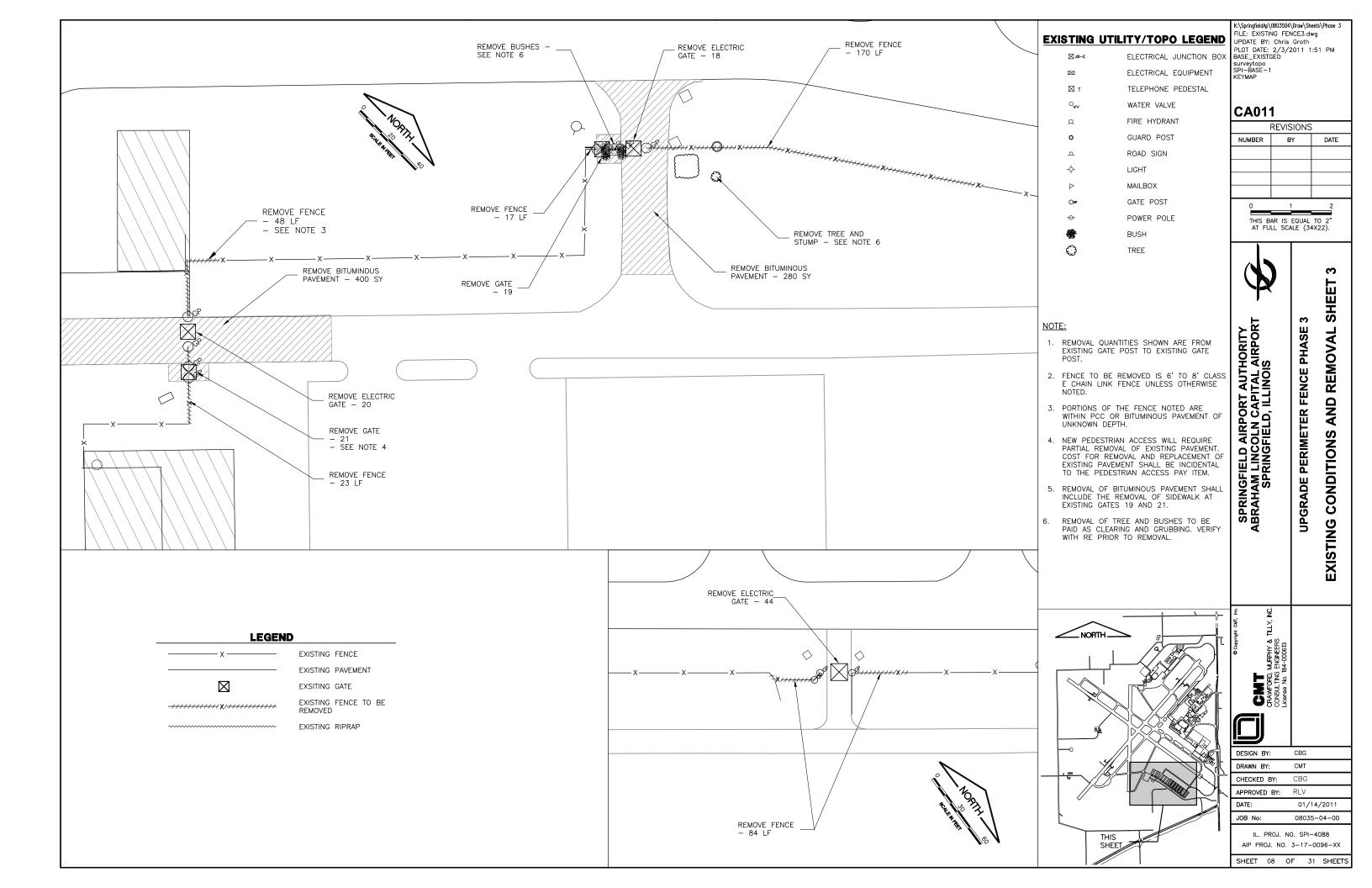
CBG CHECKED BY: RIV APPROVED BY: 01/14/2011 08035-04-00

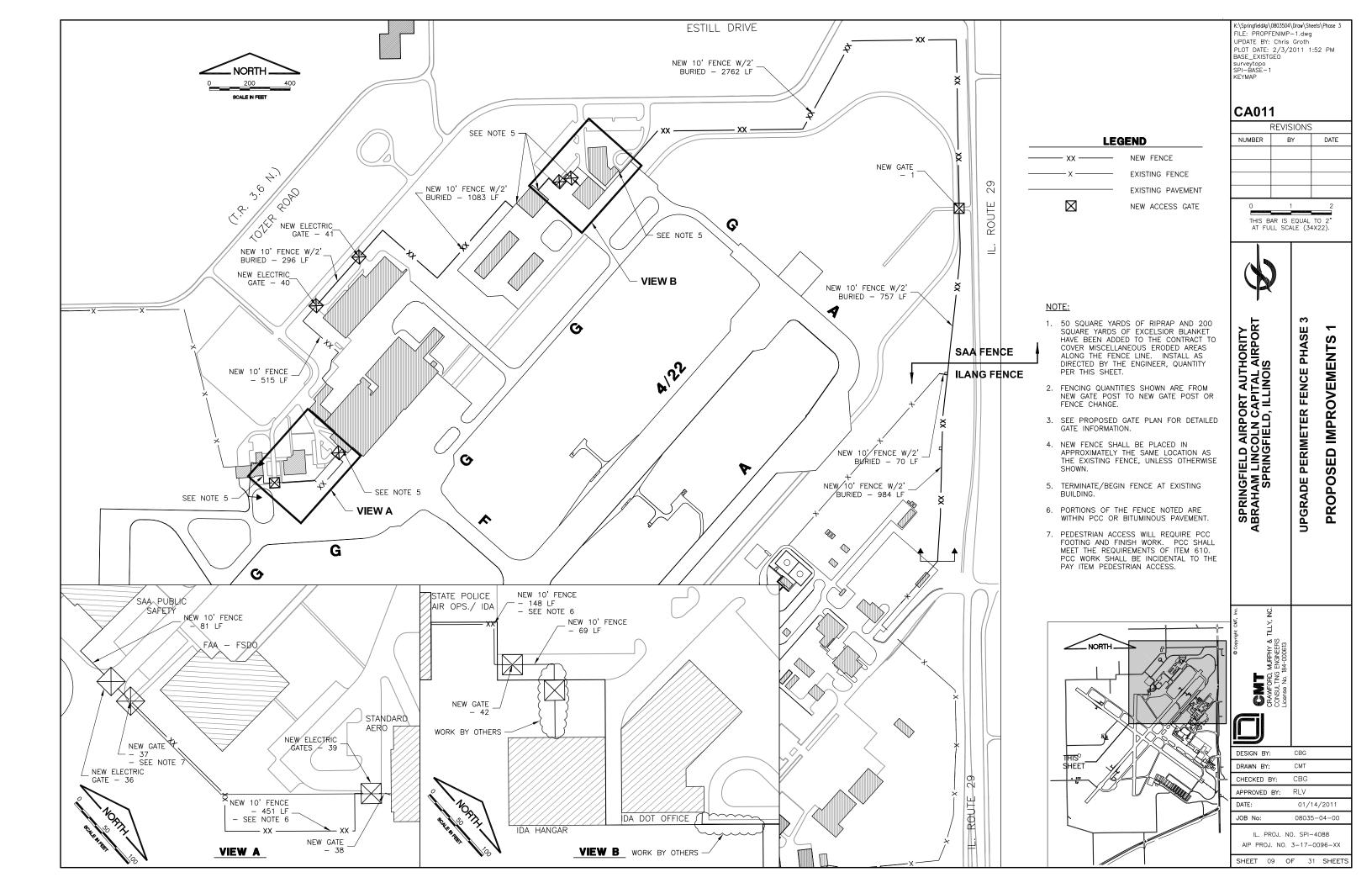
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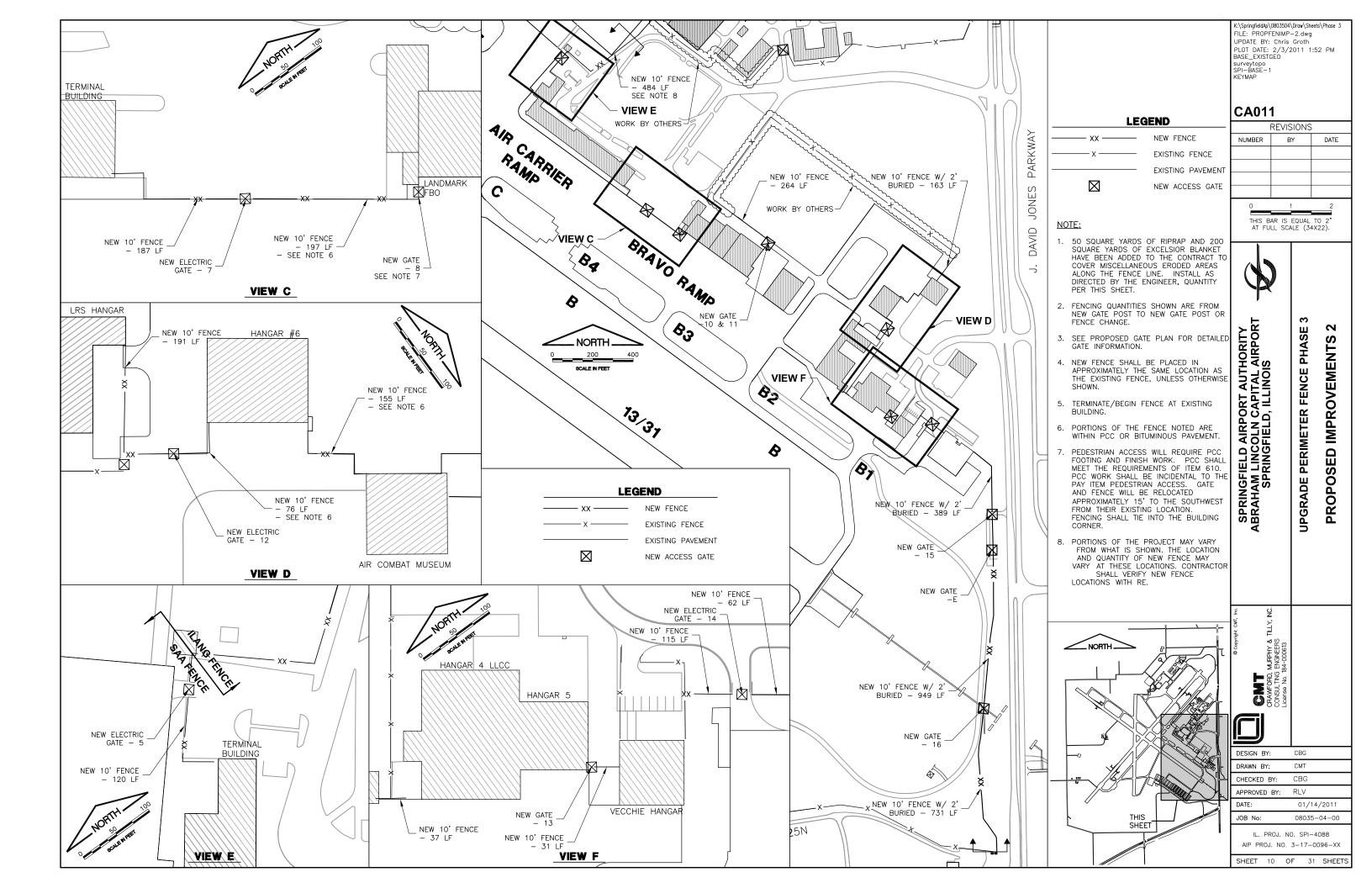
SHEET 05 OF 31 SHEETS

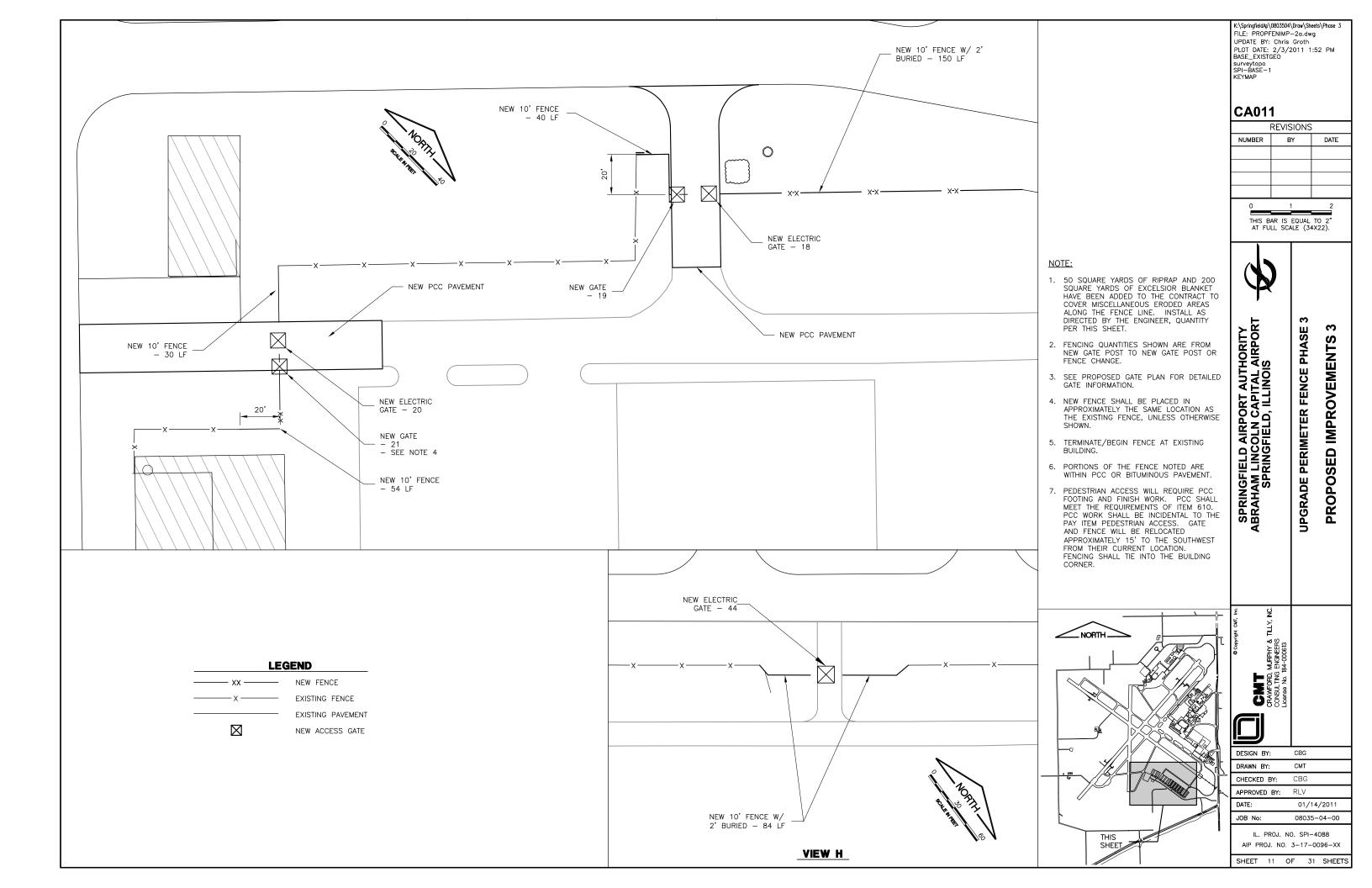












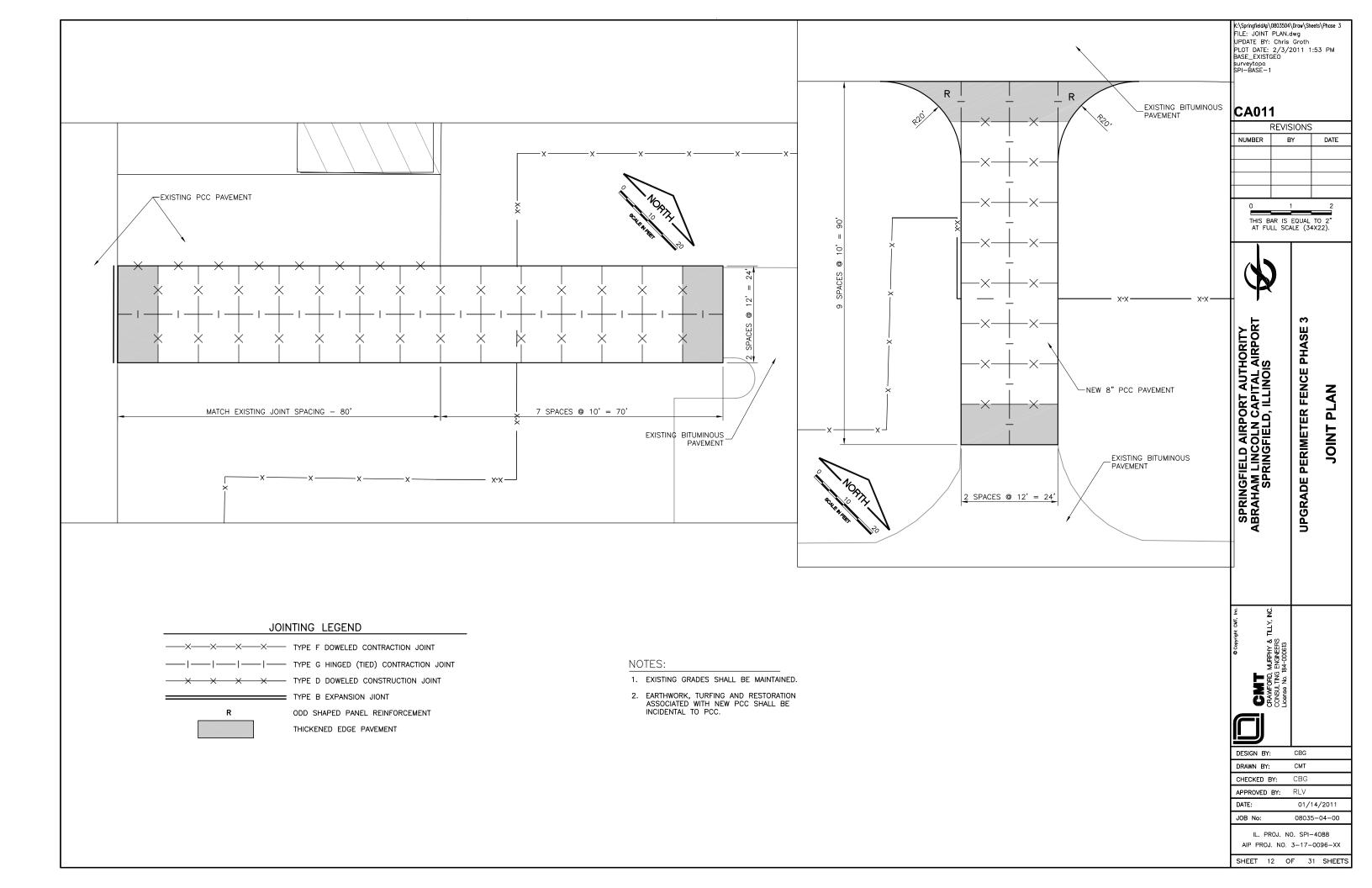


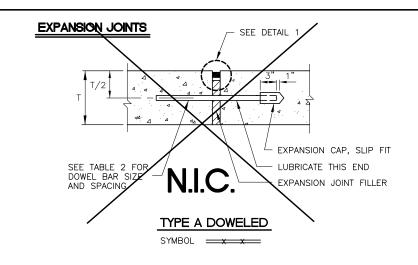
TABLE 1			
PAVEMENT THICKNESS T - INCHES	DEPTH OF CONTRACTION JOINT INITIAL SAW CUT I, INCHES $I=(T/3) \pm 1/4$ "		
5	1.67"		
6	2.00"		
7	2.33"		
8	2.67"		
9	3.00"		
10	3.33"		
11	3.67"		
12	4.00"		
13	4.33"		
14	4.67"		
15	5.00"		
16	5.33"		
17	5.67"		
18	6.00"		

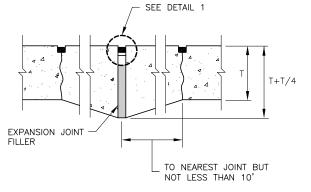
TABLE 2						
PAVEMENT	DOW	DOWEL BAR DETAILS		TIE BAR DETAILS		_S
THICKNESS T — INCHES	DIA.	LENGTH	SPACING	BAR SIZE	LENGTH	SPACING
5	5/8"	12"	12"	#4	24"	30"
6	3/4"	18"	12"	#5	30"	30"
7	3/4"	18"	12"	#5	30"	30"
8	1"	19"	12"	#5	30"	30"
9	1"	19"	12"	#5	30"	30"
10	1"	19"	12"	#5	30"	30"
11	1"	19"	12"	#5	30"	30"
12	1"	19"	12"	#5	30"	30"
13	1 - 1/4"	20"	15"	#5	30"	30"
14	1 - 1/4"	20"	15"	#5	30"	30"
15	1 - 1/4"	20"	15"	#5	30"	30"
16	1 - 1/4"	20"	15"	#5	30"	30"
17	1 - 1/2"	20"	18"	#5	30"	30"
18	1 - 1/2"	20"	18"	#5	30"	30"

	TABLE 3				
PAVEMENT THICKNESS	KEYED JOINT DIMENSIONS				
T - INCHES	a	b	С		
6					
7					
8	0.133' (1-5/8" ±)	0.017' (3/16" ±)	0.067' (7/8" ±)		
9	0.150' (1-13/16"±)	0.019' (3/16" ±)	0.075' (7/8" ±)		
10	0.167' (2")	0.021' (1/4" ±)	0.083' (1")		
11	0.183' (2-13/16"±)	0.023' (1/4" ±)	0.092' (1-1/8" ±)		
12	0.200' (2-3/8" ±)	0.025' (5/16" ±)	0.100' (1-1/4" ±)		
13	0.217' (2-5/8" ±)	0.027' (5/16" ±)	0.108' (1-5/16" ±)		
14	0.233' (2-13/16"±)	0.029' (3/8" ±)	0.117' (1-7/16" ±)		
15	0.250' (3")	0.031' (3/8" ±)	0.125' (1-1/2" ±)		
16	0.267' (3-13/16"±)	0.033' (7/16" ±)	0.133' (1-5/8" ±)		

JOINT NOTES

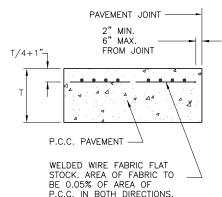
- 1.) ALL EDGES OF NEW SLABS, FREE STANDING OR CLOSURE, SHALL BE EDGED WITH AN APPROVED TOOL HAVING A RADIUS OF 1/8" TO 1/4" TO FACILITATE SAWING OF THE SEALANT RESERVOIR A RADIUS > 1/4" WILL NOT BE ACCEPTABLE.
- 2.) THE INITIAL SAWCUT FOR ALL LONGITUDINAL & TRANSVERSE CONTRACTION JOINTS SHALL BE SAWED AS SOON AS POSSIBLE AFTER PLACEMENT OF THE PAVEMENT.
- 3.) ALL TIE BARS & MESH SHALL BE SECURELY HELD IN PLACE BY SUPPORT PINS OR OTHER APPROVED METHODS TO PREVENT SHIFTING DURING & AFTER CONCRETE PLACEMENT.
- 4.) TIE BARS SHALL BE DEFORMED BARS IN CONFORMANCE WITH THE SPECIFICATIONS.
- 5.) THE INITIAL SAWCUT SHALL BE MADE TO THE 1/8" WIDTH INDICATED. INITIAL SAWING TO THE DIMENSIONS OF THE SECOND SAWCUT WILL NOT BE ALLOWED.





TYPE B THICKENED EDGE

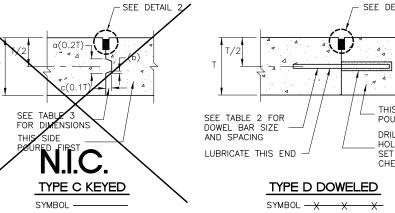
SYMBOL

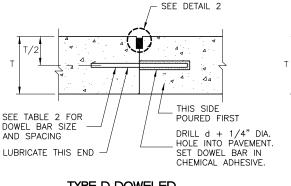


ODD SHAPED PANEL REINFORCEMENT

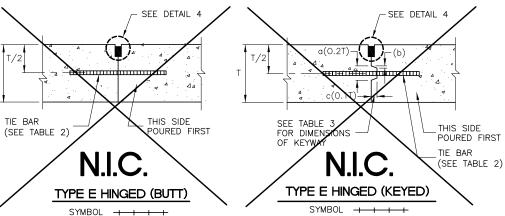
SYMBOL

CONSTRUCTION JOINTS

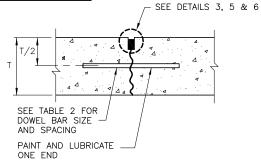


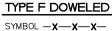


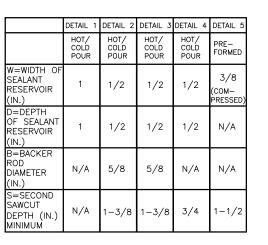


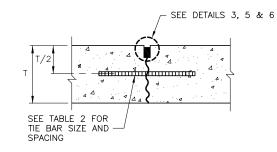


CONTRACTION JOINTS





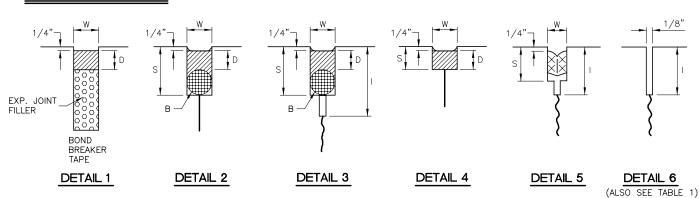




TYPE G HINGED (TIED) SYMBOL -I-I-

SEE DETAILS 3, TYPE H DUMMY SYMBOL

JOINT SEALING DETAILS



N.I.C. - NOT IN THIS CONTRACT

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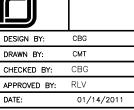


SPRINGFIELD AIRPORT AUTHORITY ABRAHAM LINCOLN CAPITAL AIRPORT SPRINGFIELD, ILLINOIS FENCE PERIMETER UPGRADE

DETAILS

JOINTING

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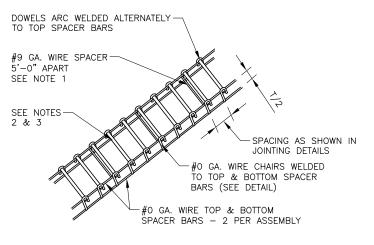


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SHEET 13 OF 31 SHEETS

JOB No:



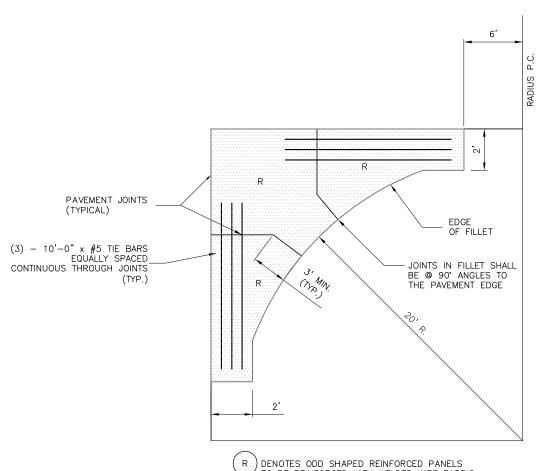
-DOWFI WIRE CHAIR-(SEE NOTES 2 & 3) воттом-WIRE SPACER DRIVE STAKES 12" TO TO BE REMOVED
PRIOR TO PAVING SPACER BAR 18" APART ON EACH SIDE OF ASSEMBLY

DOWEL BASKET ASSEMBLY DETAILS AND NOTES

DOWEL BAR INSTALLATION DETAIL

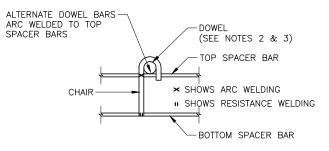


TOP SPACER BAR-



TO BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN ON JOINTING DETAILS SHEET. ALL NON RECTANGULAR SHAPED PANELS SHALL BE REINFORCED. (REINFORCEMENT NOT SHOWN)

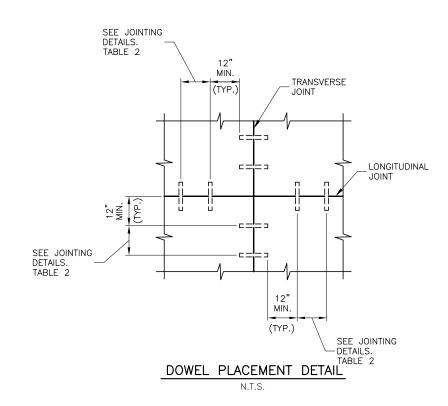
FILLET DETAIL AND FILLET REINFORCING LAYOUT



TYPICAL DOWEL BASKET ELEVATION DETAIL SHOWING CHAIR

DOWEL BASKET NOTES

- 1.) #9 GA. WIRE SPACER BAR ARC WELDED TO THE BOTTOM OF TOP SPACER BAR. (MAY BE MECHANICALLY ATTACHED IN LIEU OF WELDING) 3 REQUIRED PER UNIT. THIS WIRE MUST BE CUT OR REMÓVED PRIOR TO PAVING.
- 2.) DOWEL BAR DIAMETER, LENGTH & SPACING SHALL BE AS SHOWN IN TABLE 2 JOINTING DETAILS 1.
- 3.) DOWELS SHALL BE EPOXY COATED FULL LENGTH OF DOWEL. IMMEDIATELY PRIOR TO PAVING, THE FREE END OF EACH DOWEL SHALL BE LUBRICATED OR OILED, FOR HALF THE LENGTH OF THE DOWEL.



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SPRINGFIELD AIRPORT AUTHORITY ABRAHAM LINCOLN CAPITAL AIRPORT SPRINGFIELD, ILLINOIS **PHASI** 2 PERIMETER FENCE

UPGRADE

DETAILS

JOINTING

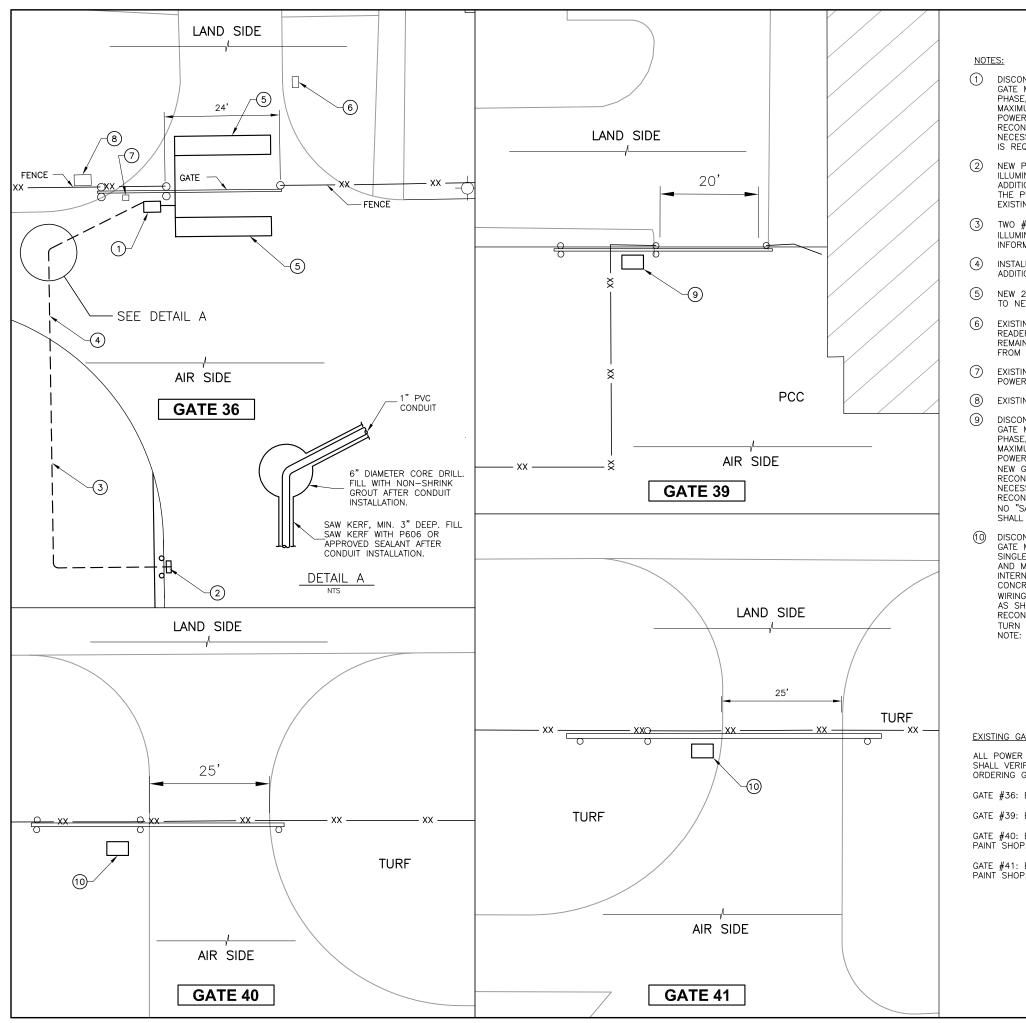
CRAWFORD, I CONSULTING License No. 18



CBG DESIGN BY: DRAWN BY: CMT CBG CHECKED BY: RI V APPROVED BY: DATE: 01/14/2011 JOB No: 08035-04-00

IL. PROJ. NO. SPI-4088 AIP PROJ. NO. 3-17-0096-XX

SHEET 14 OF 31 SHEETS



- DISCONNECT AND REMOVE EXISTING GATE OPERATOR. INSTALL NEW CANTILEVER SLIDE GATE MOTOR OPERATOR, CHAMBERLAIN LIFTMASTER MODEL SL 575, 1 HP, 240V, SINGLE PHASE, OR EQUIVALENT, SUITABLE FOR A MAXIMUM GATE WEIGHT OF 1800 LBS AND MAXIMUM GATE WIDTH OF 32 FEET. NEW GATE OPERATOR SHALL INCLUDE AN INTERNAL POWER DISCONNECT SWITCH. INSTALL NEW GATE OPERATOR ON EXISTING CONCRETE PAD. RECONNECT NEW GATE OPERATOR TO EXISTING POWER AND CONTROL WIRING AS NECESSARY. SEE DETAILS FOR ADDITIONAL INFORMATION. NOTE: AN EARTH GROUND ROD IS REQUIRED, BUT NOT SHOWN.
- 2 NEW PUSH TO EXIT PUSHBUTTON STATION MOUNTED ON GOOSENECK PEDESTAL, ILLUMINATED, MUSHROOM HEAD, NEMA 4X, AND PROTECTIVE BOLLARDS. SEE DETAILS FOR ADDITIONAL INFORMATION. NOTE THAT AT THIS LOCATION THE CONCRETE PIERS FOR BOTH THE PUSHBUTTON STATION AND THE PROTECTIVE BOLLARDS WILL BE INSTALLED IN THE EXISTING 2-FOOT CONCRETE FILLET. SAWCUT AND REMOVE FILLET TO INSTALL PIERS.
- TWO #14 THWN (GATE OPEN CONTROL), TWO #14 THWN (24VAC POWER FOR ILLUMINATION) IN 1" CONDUIT TO NEW GATE OPERATOR. SEE DETAILS FOR ADDITIONAL INFORMATION.
- INSTALL CONDUIT IN SAWKERF IN EXISTING CONCRETE PAVEMENT. SEE DETAIL A FOR ADDITIONAL INFORMATION.
- 5) NEW 20'x4' "SAFETY" DETECTOR LOOP. INSTALL IN SAWKERF AND NEW 1/2" CONDUIT TO NEW GATE OPERATOR. SEE DETAILS FOR ADDITIONAL INFORMATION.
- EXISTING PROXIMITY CARD READER (AND PROTECTIVE BOLLARDS, IF SHOWN). CARD READER IS PART OF THE EXISTING AIRPORT ACCESS CONTROL SYSTEM AND SHALL REMAIN IN SERVICE. CONTRACTOR SHALL VERIFY WIRING METHODS AND CABLE ROUTING FROM CARD READER TO PROTECT AND MAINTAIN THE EXISTING CONDITIONS.
- 7) EXISTING DISCONNECT SWITCH. TO REMAIN. RECONNECT NEW GATE OPERATOR 240V POWER WIRING TO THIS DISCONNECT.
- (8) EXISTING ACCESS CONTROL INTERFACE PANEL. TO REMAIN.
- DISCONNECT AND REMOVE EXISTING GATE OPERATOR. INSTALL NEW CANTILEVER SLIDE GATE MOTOR OPERATOR, CHAMBERLAIN LIFTMASTER MODEL SL 575, 1 HP, 208V, THREE PHASE, OR EQUIVALENT, SUITABLE FOR A MAXIMUM GATE WEIGHT OF 1800 LBS AND MAXIMUM GATE WIDTH OF 32 FEET. NEW GATE OPERATOR SHALL INCLUDE AN INTERNAL POWER DISCONNECT SWITCH. SAWCUT AND REMOVE EXISTING PAVEMENT AND INSTALL NEW GATE OPERATOR ON A NEW CONCRETE PAD PER MANUFACTURER'S INSTRUCTIONS. RECONNECT NEW GATE OPERATOR TO EXISTING POWER AND CONTROL WIRING AS NECESSARY. RELOCATE FENCE MOUNTED FLASHING LIGHT TO NEW FENCE AND RECONNECT TO NEW GATE OPERATOR LIGHT FLASHES WHENEVER GATE IS IN USE. NO "SAFETY" DETECTOR LOOPS SHALL BE INSTALLED. NO PUSH TO EXIT PUSHBUTTON SHALL BE INSTALLED. NOTE: AN EARTH GROUND ROD IS REQUIRED, BUT NOT SHOWN.
- DISCONNECT AND REMOVE EXISTING GATE OPERATOR. INSTALL NEW CANTILEVER SLIDE GATE MOTOR OPERATOR, CHAMBERLAIN LIFTMASTER MODEL SL 575, 1 HP, 120V, SINGLE PHASE, OR EQUIVALENT, SUITABLE FOR A MAXIMUM GATE WEIGHT OF 1800 LBS AND MAXIMUM GATE WIDTH OF 32 FEET. NEW GATE OPERATOR SHALL INCLUDE AN INTERNAL POWER DISCONNECT SWITCH. INSTALL NEW GATE OPERATOR ON EXISTING CONCRETE PAD. RECONNECT NEW GATE OPERATOR TO EXISTING POWER AND CONTROL WIRING AS NECESSARY. INSTALL A "GATE OPEN" PUSHBUTTON IN GATE OPERATOR COVER AS SHOWN IN DETAILS. EXISTING LIGHT FIXTURE AT GATE SHALL BE REUSED AND RECONNECTED TO OPERATE AS EXISTING. REMOVE EXISTING TELEPHONE CALL BOX AND TURN OVER TO STANDARD AERO. NO "SAFETY" DETECTOR LOOPS SHALL BE INSTALLED. NOTE: AN EARTH GROUND ROD IS REQUIRED, BUT NOT SHOWN.

EXISTING GATE OPERATOR POWER SOURCES:

ALL POWER SOURCES LISTED BELOW ARE FROM BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY ALL POWER SOURCE LOCATIONS, VOLTAGES, PHASES AND AMPACITY PRIOR TO ORDERING GATES AND COMMENCING WORK ON GATE OPERATOR REPLACEMENT.

GATE #36: EXISTING 30A, 2P CIRCUIT BREAKER IN EXISTING PANELBOARD IN SAFETY BUILDING.

GATE #39: EXISTING 30A, 3P CIRCUIT BREAKER IN EXISTING PANELBOARD IN STANDARD AERO.

GATE #40: EXISTING 20A, 1P CIRCUIT BREAKER IN EXISTING PANELBOARD IN STANDARD AERO PAINT SHOP.

GATE #41: EXISTING 20A, 1P CIRCUIT BREAKER IN EXISTING PANELBOARD IN STANDARD AERO PAINT SHOP.

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SPRINGFIELD AIRPORT AUTHORITY ABRAHAM LINCOLN CAPITAL AIRPOR' SPRINGFIELD, ILLINOIS

UPGRADE PERIMETER FENCE PHASE 3
OSED ELECTRIC GATE IMPROVEMENTS

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CAMFORD, MURPHY & TILLY CORSULTING ENSINERS License No. 184-000613



DESIGN BY: CBG

DRAWN BY: CMT

CHECKED BY: CBG

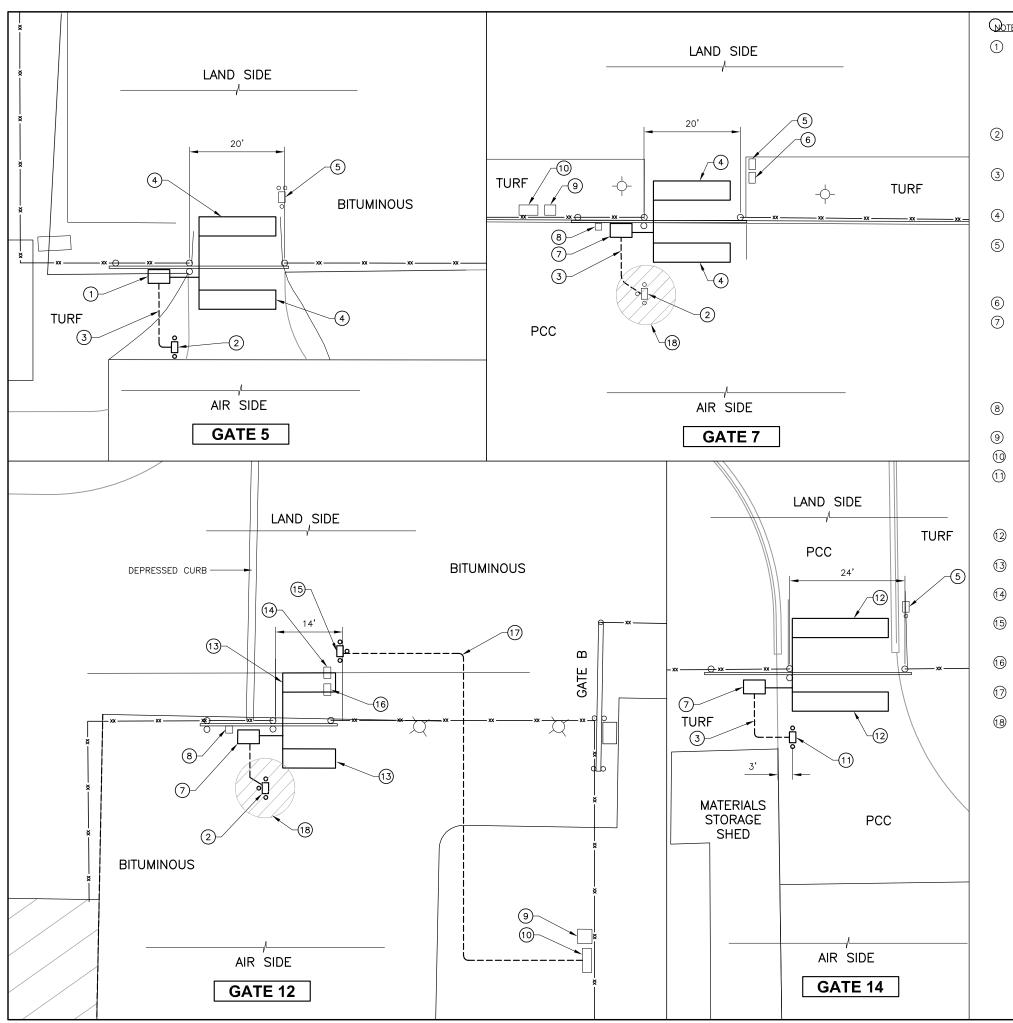
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SHEET 15 OF 31 SHEETS



NOTES:

- DISCONNECT AND REMOVE EXISTING GATE OPERATOR. INSTALL NEW CANTILEVER SLIDE GATE MOTOR OPERATOR, CHAMBERLAIN LIFTMASTER MODEL SL 575, 1/2 HP, 120V, SINGLE PHASE, OR EQUIVALENT, SUITABLE FOR A MAXIMUM GATE WEIGHT OF 1200 LBS AND MAXIMUM GATE WIDTH OF 25 FEET. NEW GATE OPERATOR SHALL INCLUDE AN INTERNAL POWER DISCONNECT SWITCH. INSTALL NEW GATE OPERATOR ON EXISTING CONCRETE PAD. RECONNECT NEW GATE OPERATOR TO EXISTING POWER AND CONTROL WIRING AS NECESSARY. SEE DETAILS FOR ADDITIONAL INFORMATION. NOTE: AN EARTH GROUND ROD IS REQUIRED, BUT NOT SHOWN.
- NEW PUSH TO EXIT PUSHBUTTON STATION MOUNTED ON GOOSENECK PEDESTAL, ILLUMINATED, MUSHROOM HEAD, NEMA 4X, AND PROTECTIVE BOLLARDS. LOCATE 15' FROM FENCE LINE. SEE DETAILS FOR ADDITIONAL INFORMATION.
- TWO #14 THWN (GATE OPEN CONTROL), TWO #14 THWN (24VAC POWER FOR LLUMINATION) IN 1" CONDUIT TO NEW GATE OPERATOR. SEE DETAILS FOR ADDITIONAL ÍNFORMATION.
- NEW $16'\times4'$ "SAFETY" DETECTOR LOOP. INSTALL IN SAWKERF AND NEW 1/2" CONDUIT TO NEW GATE OPERATOR. SEE DETAILS FOR ADDITIONAL INFORMATION.
- EXISTING PROXIMITY CARD READER (AND PROTECTIVE BOLLARDS, IF SHOWN). CARD READER IS PART OF THE EXISTING AIRPORT ACCESS CONTROL SYSTEM AND SHALL REMAIN IN SERVICE. CONTRACTOR SHALL VERIFY WIRING METHODS AND CABLE ROUTING FROM CARD READER TO PROTECT AND MAINTAIN THE EXISTING
- EXISTING CALL BOX. NOT USED. TO REMAIN.
- DISCONNECT AND REMOVE EXISTING GATE OPERATOR. INSTALL NEW CANTILEVER SLIDE GATE MOTOR OPERATOR, CHAMBERLAIN LIFTMASTER MODEL SL 575, 1 HP, 240V, SINGLE PHASE, OR EQUIVALENT, SUITABLE FOR A MAXIMUM GATE WEIGHT OF 1800 LBS AND MAXIMUM GATE WIDTH OF 32 FEET. NEW GATE OPERATOR SHALL NCLUDE AN INTERNAL POWER DISCONNECT SWITCH. INSTALL NEW GATE OPERATOR ON EXISTING CONCRETE PAD. RECONNECT NEW GATE OPERATOR TO EXISTING POWER AND CONTROL WIRING AS NECESSARY. SEE DETAILS FOR ADDITIONAL NFORMATION. NOTE: AN EARTH GROUND ROD IS REQUIRED, BUT NOT SHOWN.
- EXISTING DISCONNECT SWITCH. TO REMAIN. RECONNECT NEW GATE OPERATOR 240V POWER WIRING TO THIS DISCONNECT.
- EXISTING MINI-POWER CENTER. TO REMAIN.
- EXISTING ACCESS CONTROL INTERFACE PANEL. TO REMAIN
- TWO NEW PUSH TO EXIT PUSHBUTTON STATIONS MOUNTED ON DUAL—HEIGHT GOOSENECK PEDESTAL, ILLUMINATED, MUSHROOM HEAD, NEMA 4X, AND PROTECTIVE BOLLARDS. SEE DETAILS FOR ADDITIONAL INFORMATION. LOCATE 15' FROM FENCE LINE. LOCATE FACE OF PUSHBUTTON ENCLOSURE NO CLOSER THAN 3 FEET FROM THE FRONT FACE OF THE STORAGE BINS EXTENDED.
- (2) NEW 22'x4' "SAFETY" DETECTOR LOOP. INSTALL IN SAWKERF AND NEW 1/2" CONDUIT TO NEW GATE OPERATOR. SEE DETAILS FOR ADDITIONAL INFORMATION.
- NEW 10'x4' "SAFETY" DETECTOR LOOP. INSTALL IN SAWKERF AND NEW 1/2" CONDUIT TO NEW GATE OPERATOR. SEE DETAILS FOR ADDITIONAL INFORMATION.
- EXISTING SWIPE CARD READER AND GOOSENECK TO BE RELOCATED TO NEW LOCATION. REMOVE EXISTING CONCRETE PIER FOUNDATION
- RELOCATED SWIPE CARD READER AND GOOSENECK ON NEW CONCRETE PIER FOUNDATION AND PROTECTIVE BOLLARDS. ADJUST CONCRETE PIER HEIGHT AS NEEDED TO PROVIDE 42" MOUNTING HEIGHT FOR SWIPE CARD READER.
- EXISTING CALL BOX TO BE DISCONNECTED AND REMOVED. REMOVE CONCRETE PIER FOUNDATION.
- 6-CONDUCTOR #18 SHIELDED CABLE IN 1" CONDUIT TO EXISTING ACCESS CONTROL INTERFACE PANEL. RECONNECT TO MATCH EXISTING CONDITIONS.
- NEW YELLOW WARNING MARKING. MARKING SHALL BE 10' DIAMETER CIRCLE CENTERED AT THE PUSHBUTTON STATION. MARKING SHALL BE 6" WIDE WITH HATCH LINES AT 45 ANGLE FROM FENCE SPACED 2' APART. MARKING SHALL BE IN ACCORDANCE WITH ITEM 620 AND INCIDENTAL TO GATE.

EXISTING GATE OPERATOR POWER SOURCES:

ALL POWER SOURCES LISTED BELOW ARE FROM BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY ALL POWER SOURCE LOCATIONS, VOLTAGES, PHASES AND AMPACITY PRIOR TO ORDERING GATES AND COMMENCING WORK ON GATE OPERATOR REPLACEMENT

GATE #5: EXISTING 20A, 1P CIRCUIT BREAKER IN EXISTING PANELBOARD IN OLD STATE POLICE AREA IN TERMINAL BUILDING.

GATE #7: EXISTING 20A, 2P CIRCUIT BREAKER IN EXISTING MINI-POWER CENTER NEXT TO GATE #7.

GATE #12: EXISTING 20A, 2P CIRCUIT BREAKER IN EXISTING MINI-POWER CENTER NEAR GATE #12.

GATE #14: EXISTING 20A, 2P CIRCUIT BREAKER IN EXISTING PANELBOARD "AA" IN MAINTÉNANCE BUILDING.

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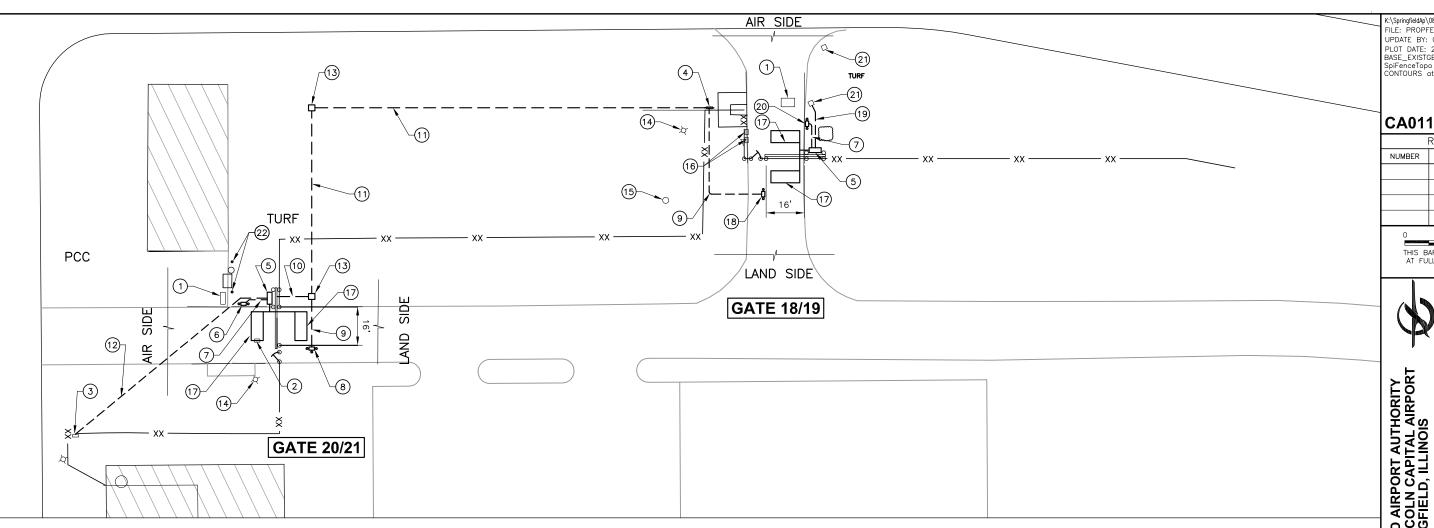
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SHEET 16 OF 31 SHEETS



- DISCONNECT AND REMOVE EXISTING GATE OPERATOR AND FOUNDATION.
- (2) EXISTING CARD READER GOOSENECK (CARD READER HAS BEEN REMOVED) AND PIER FOUNDATION TO BE REMOVED.
- EXISTING PANELBOARD WITH 20A, 2P, 240V CIRCUIT BREAKER FOR GATE 20 OPERATOR. DISCONNECT AND REMOVE EXISTING GATE 20 POWER WIRING. NOTE: THIS PANELBOARD ALSO HAS 20A, 2P, 240V CIRCUIT BREAKER FOR GATE 18 POWER, WHICH IS TO REMAIN UNDISTURBED. SEE NOTE 19 FOR GATE 18 POWER WIRING MODIFICATIONS.
- EXISTING ACCESS CONTROL INTERFACE PANEL. DISCONNECT AND REMOVE 6/C #18 SHIELDED CABLE TO EXISTING GATE GATE 18 & GATE 20 CARD READERS AND #14 THWN GATE OPEN CONTROL WIRING TO EXISTING GATE 20 OPERATOR. CONNECT NEW 6/C #18 SHIELDED CABLE FROM NEW GATE 18 & GATE 20 CARD READERS AND NEW #14 THWN GATE OPEN CONTROL WIRING FROM NEW GATE 20 OPERATOR TO MATCH EXISTING
- INSTALL NEW CANTILEVER SLIDE GATE MOTOR OPERATOR, CHAMBERLAIN LIFTMASTER MODEL SL 575, 1 HP, 240V, SINGLE PHASE, OR EQUIVALENT, SUITABLE FOR A MAXIMUM GATÉ WEIGHT OF 1800 LBS AND MAXIMUM GATE WIDTH OF 32 FEET. NEW GATE OPERATOR SHALL INCLUDE AN INTERNAL POWER DISCONNECT SWITCH. INSTALL NEW GATE OPERATOR ON NEW CONCRETE PAD. SEE DETAILS FOR ADDITIONAL INFORMATION. NOTE: AN EARTH GROUND ROD IS REQUIRED, BUT NOT
- TWO NEW PUSH TO EXIT PUSHBUTTON STATIONS MOUNTED ON DUAL-HEIGHT GOOSENECK PEDESTAL, ILLUMINATED, MUSHROOM HEAD, NEMA 4X, AND TWO PROTECTIVE BOLLARDS. LOCATE 15' FROM FENCE LINE. SEE DETAILS FOR
- NEW TWO #14 THWN (GATE OPEN CONTROL), TWO #14 THWN (24VAC POWER FOR ILLUMINATION) IN 1" CONDUIT TO NEW GATE "OPERATOR. SEE DETAILS FOR ADDITIONAL" INFORMATION.
- NEW PROXIMITY CARD READER, HID MAXI-PROX MODEL 5375, EXTENDED RANGE, WIEGAND PROTOCOL, OR EQUIVALENT, MOUNTED ON GOOSENECK PEDESTAL AND CONCRETE PIER FOUNDATION, AND THREE PROTECTIVE BOLLARDS. LOCATE 15' FROM FENCE LINE. SEE DETAILS FOR ADDITIONAL INFORMATION.
- NEW 6/C #18 SHIELDED CABLE IN 1" CONDUIT.
- 10 NEW TWO #14 THWN (GATE OPEN CONTROL) IN 1" CONDUIT TO NEW GATE OPERATOR.
- NEW 6/C #18 SHIELDED CABLE (CARD READER SIGNAL) AND NEW TWO #14 THWN (GATE OPEN CONTROL) IN 1" CONDUIT TO EXISTING ACCESS CONTROL INTERFACE PANEL AT GATE 18.
- NEW TWO #12 THWN (240V POWER), ONE #12 GROUND IN 1" CONDUIT TO EXISTING GATE 20 CIRCUIT BREAKER IN EXISTING PANELBOARD. DO NOT ROUTE CONDUIT CLOSER THAN 3 FEET TO DETECTOR LOOPS.
- NEW POLYMER CONCRETE HANDHOLE, OPEN-BOTTOM DESIGN, QUAZITE/HUBBELL #PG-2436-BA-42 WITH #PG-2436-HH-00-17 COVER, LABELED "ELECTRICAL", OR EQUIVALENT.

- (14) EXISTING AREA LIGHT TO REMAIN IN SERVICE.
- (5) EXISTING SECURITY CAMERA TO REMAIN IN SERVICE.
- (6) EXISTING PROXIMITY CARD READER AND EXISTING CALL BOX. REMOVE CALL BOX. REMOVE EXISTING CONCRETE PIER FOUNDATIONS. EXISTING PROXIMITY CARD READER AND GOOSENECK TO BE RELOCATED TO NEW LOCATION AS INDICATED.
- NEW 16'x4' "SAFETY" DETECTOR LOOP. INSTALL IN SAWKERF AND NEW 1/2" CONDUIT TO NEW GATE OPERATOR. SEE DETAILS FOR ADDITIONAL INFORMATION.
- (8) RELOCATED PROXIMITY CARD READER AND GOOSENECK ON NEW CONCRETE PIER FOUNDATION AND PROTECTIVE BOLLARDS. ADJUST CONCRETE PIER HEIGHT AS NEEDED TO PROVIDE 42" MOUNTING HEIGHT FOR PROXIMITY CARD
- (9) NEW GATE POWER AND CONTROL WIRING: TWO #12 THWN (240V POWER), 2 #14 THWN (GATE OPEN CONTROL), ONE #12 GROUND IN 3/4" CONDUIT TO EXISTING HANDHOLE. SPLICE TO EXISTING POWER AND CONTROL WIRING IN EXISTING HANDHOLE. ALL SPLICES SHALL BE MADE USING TWIST-ON CONNECTORS PRE-FILLED WITH SILICONE-BASED SEALANT TO PROTECT AGAINST MOISTURE AND CORROSION. NOTE: ROUTE CONDUIT TO AVOID EXISTING CHARLIE WELLS MEMORIAL
- (0) NEW PUSH TO EXIT PUSHBUTTON STATION MOUNTED ON GOOSENECK PEDESTAL, ILLUMINATED, MUSHROOM HEAD, NEMA 4X, AND PROTECTIVE BOLLARDS. LOCATE 15' FROM FENCE LINE. SEE DETAILS FOR ADDITIONAL INFORMATION.
- EXISTING HANDHOLE.
- INSTALL 2 ADDITIONAL BOLLARDS APPROXIMATELY 2' FROM EXISTING PAVEMENT AT LOCATIONS SHOWN. RESIDENT ENGINEER SHALL DETERMINE FINIAL LOCATION IN THE FIELD.

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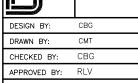
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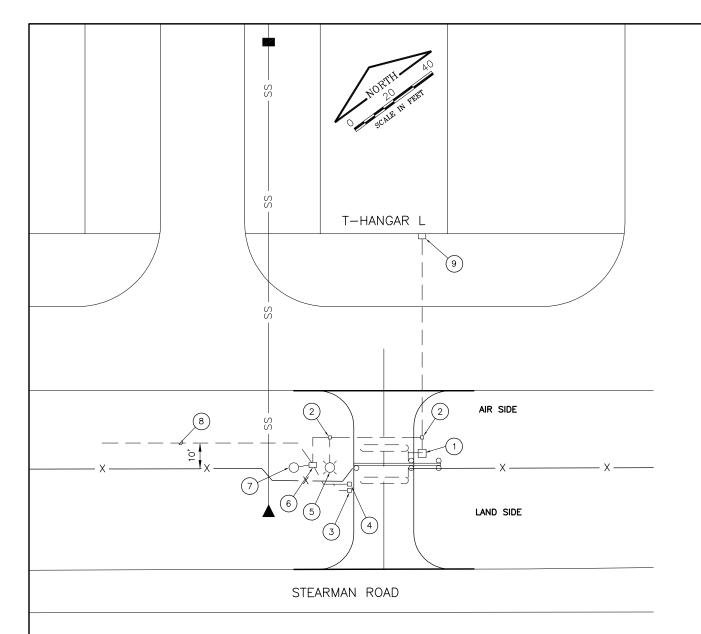
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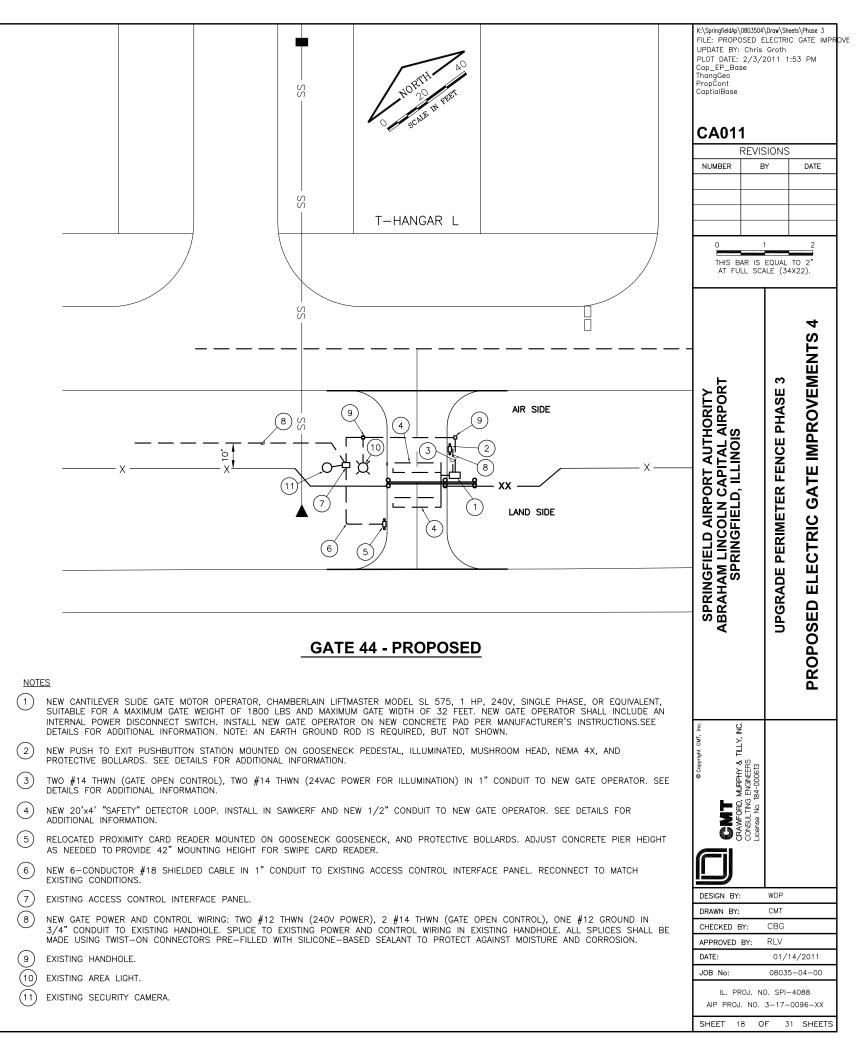
SHEET 17 OF 31 SHEETS

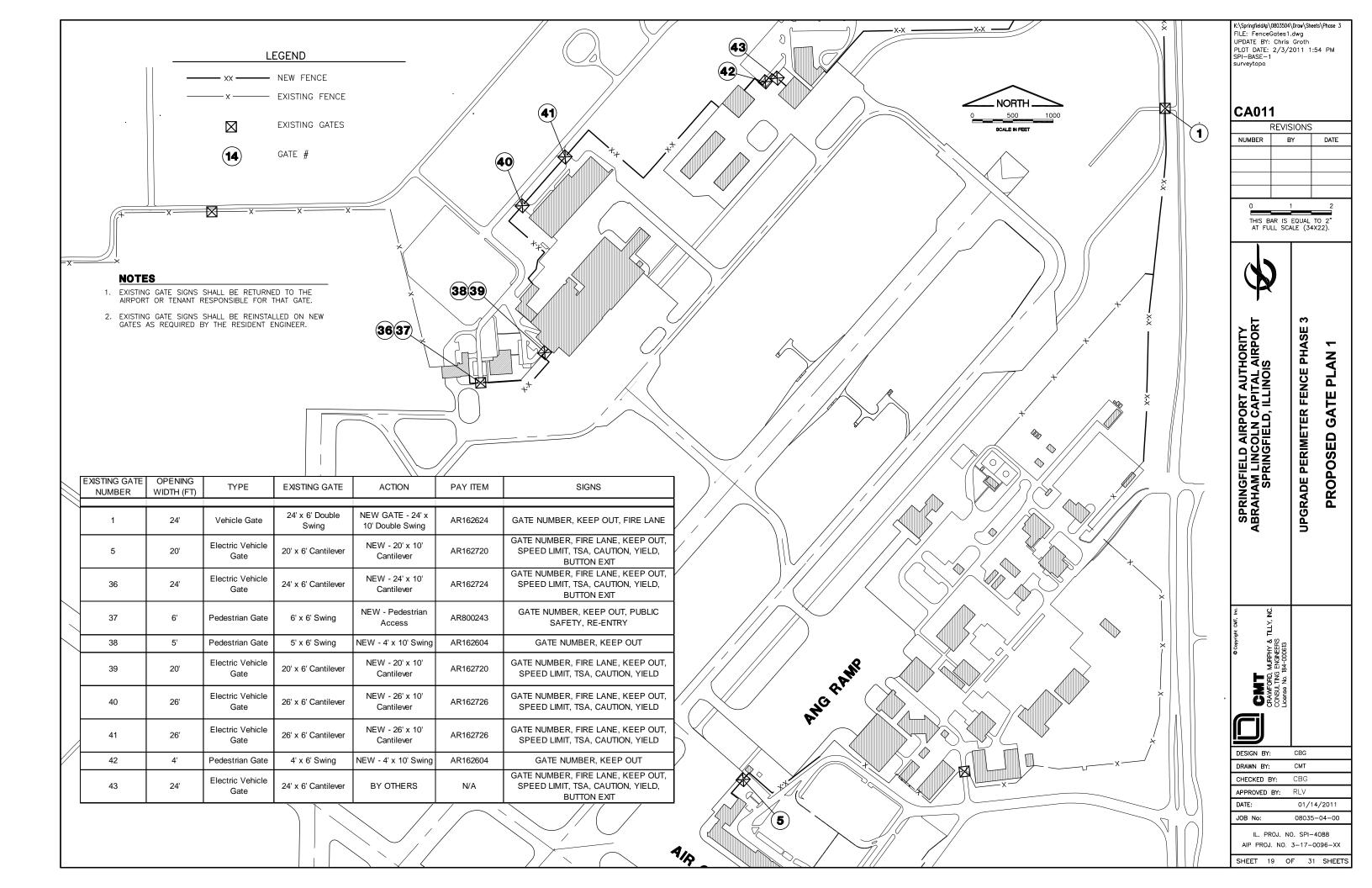


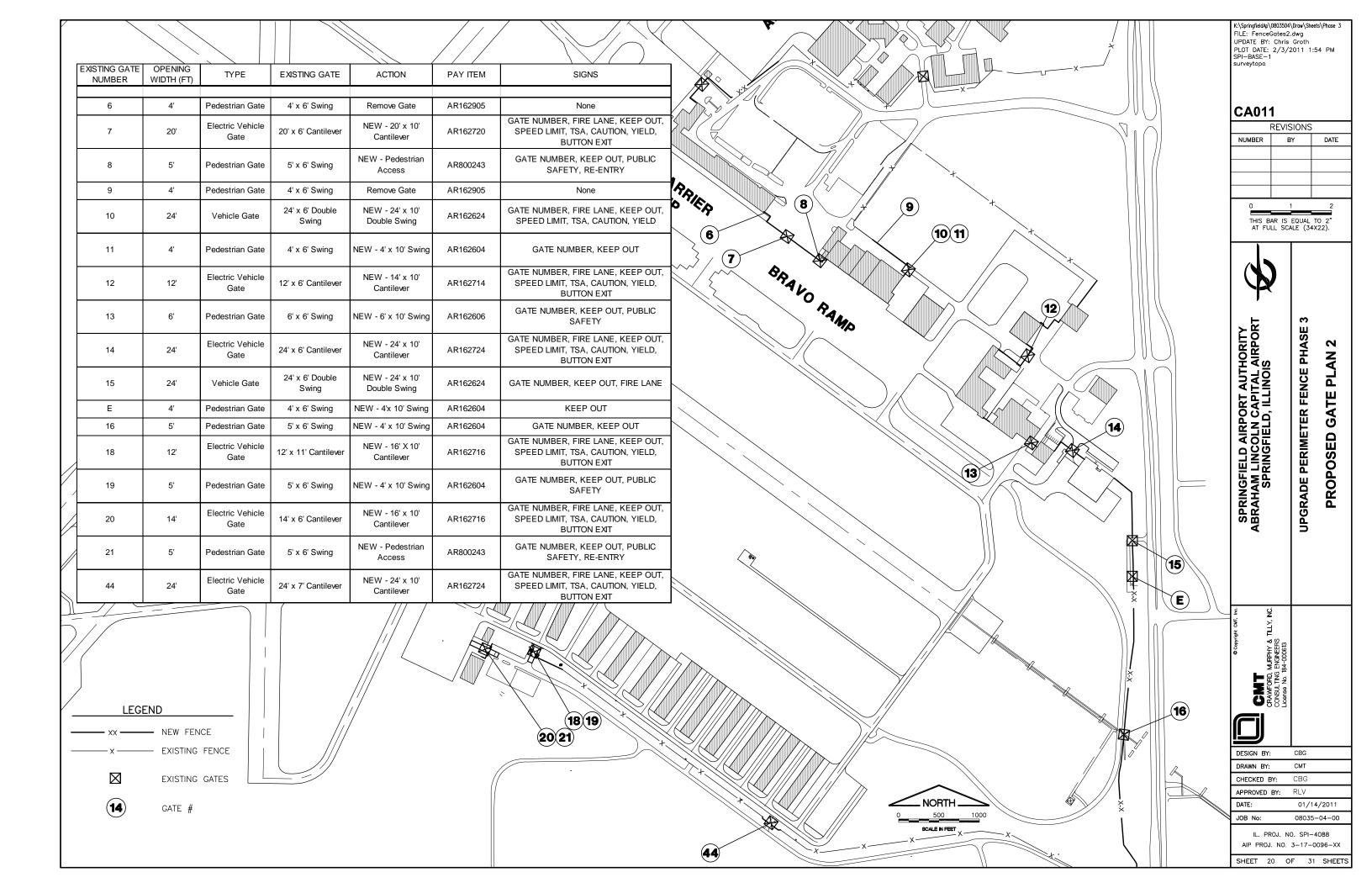
GATE 44 - EXISTING

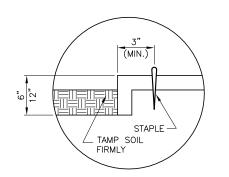
NOTES

- (1) EXISTING GATE OPERATOR TO BE DISCONNECTED AND REMOVED.
- (2) EXISTING ELECTRICAL HANDHOLE TO REMAIN.
- (3) EXISTING PROXIMITY CARD READER AND GOOSENECK TO BE RELOCATED.
- (4) EXISTING CALL BOX TO BE DISCONNECTED AND REMOVED.
- (5) EXISTING AREA LIGHT TO REMAIN.
- (6) EXISTING ACCESS CONTROL INTERFACE PANEL TO REMAIN.
- (7) EXISTING SECURITY CAMERA TO REMAIN.
- (8) EXISTING FIBER OPTIC CABLE TO GATE 18 ACCESS CONTROL INTERFACE PANEL TO REMAIN.
- (9) EXISTING PANELBOARD WITH 20A, 2P, 240V CIRCUIT BREAKER FOR GATE #44 POWER TO REMAIN

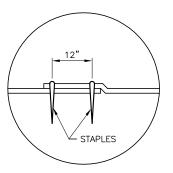




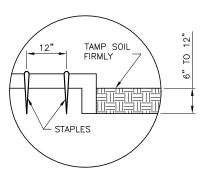




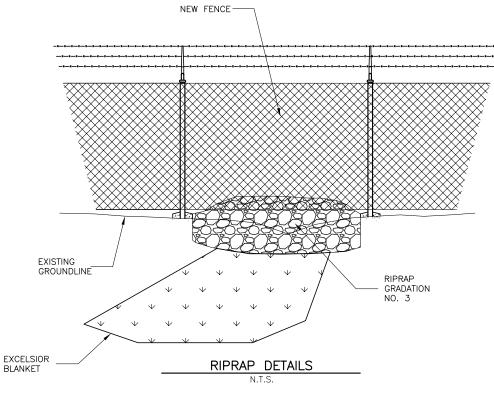




DETAIL 2 - JUNCTION SLOT

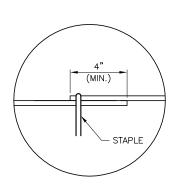


DETAIL 3 - ANCHOR SLOT

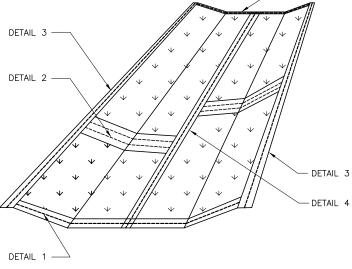


RIPRAP DETAIL NOTES

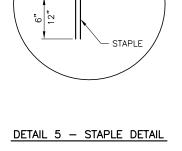
- 1. PLACE RIPRAP IN DRAINAGE AREAS AS DIRECTED BY THE ENGINEER.
- 2. INSTALL EXCELSIOR BLANKET IN AREAS THAT SHOW SIGNS OF EROSION AS DIRECTED BY ENGINEER.
- 3. RIPRAP IS ASSUMED TO BE 18" WIDE BY 18" TALL WHEN PLACED AGAINST THE FENCE FABRIC.
- 4. CONTRACTOR MAY INSTALL THE RIPRAP ALONG THE FENCE WITHOUT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



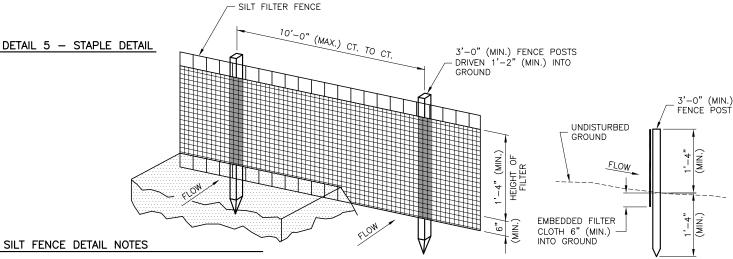
DETAIL 4 - LAP JOINT



PLAN



(MIN.)



EXCELSIOR BLANKET NOTES

- 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

-DETAIL 3

- 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 PERIMETER EROSION

UPGRADE

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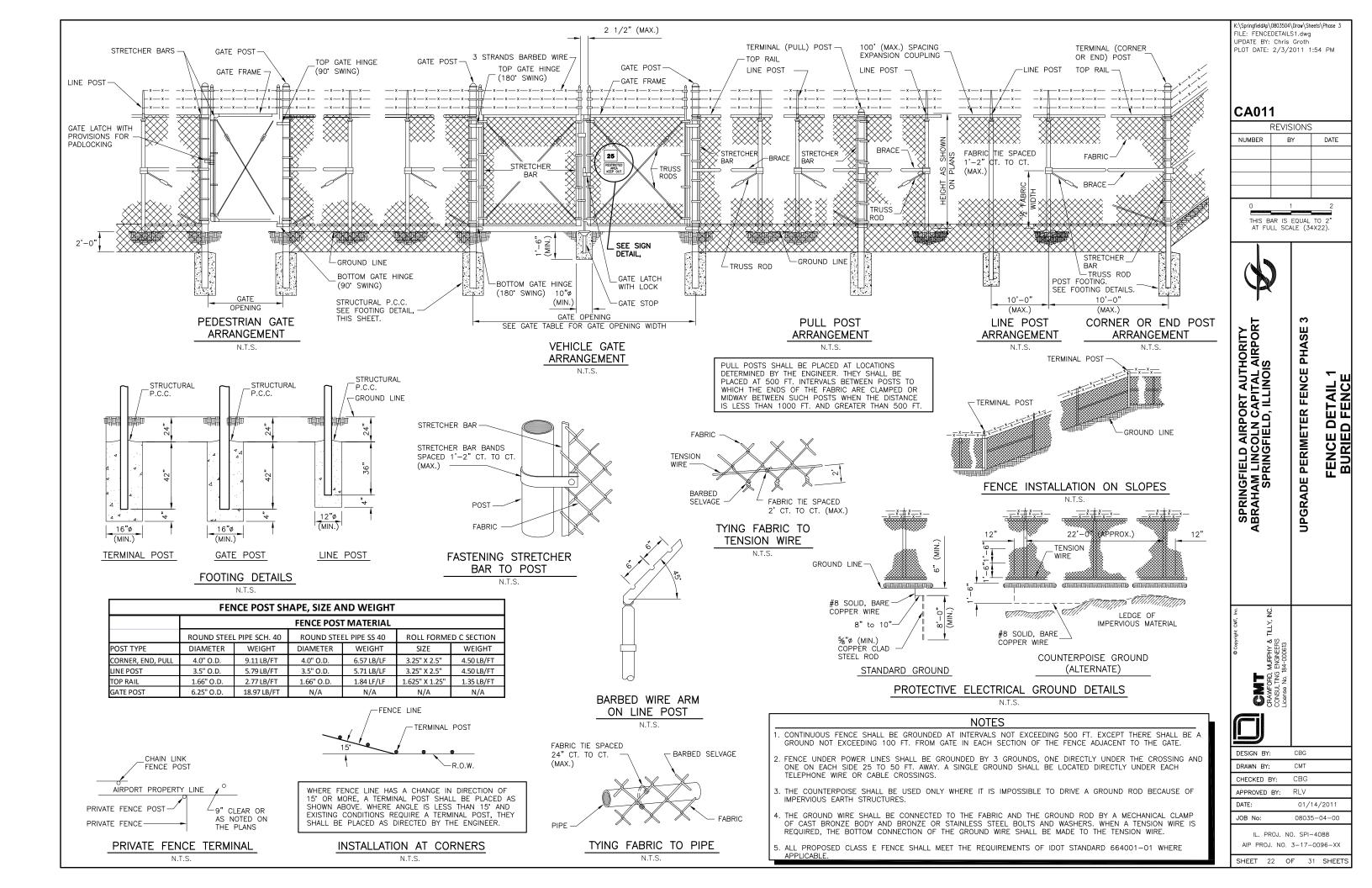


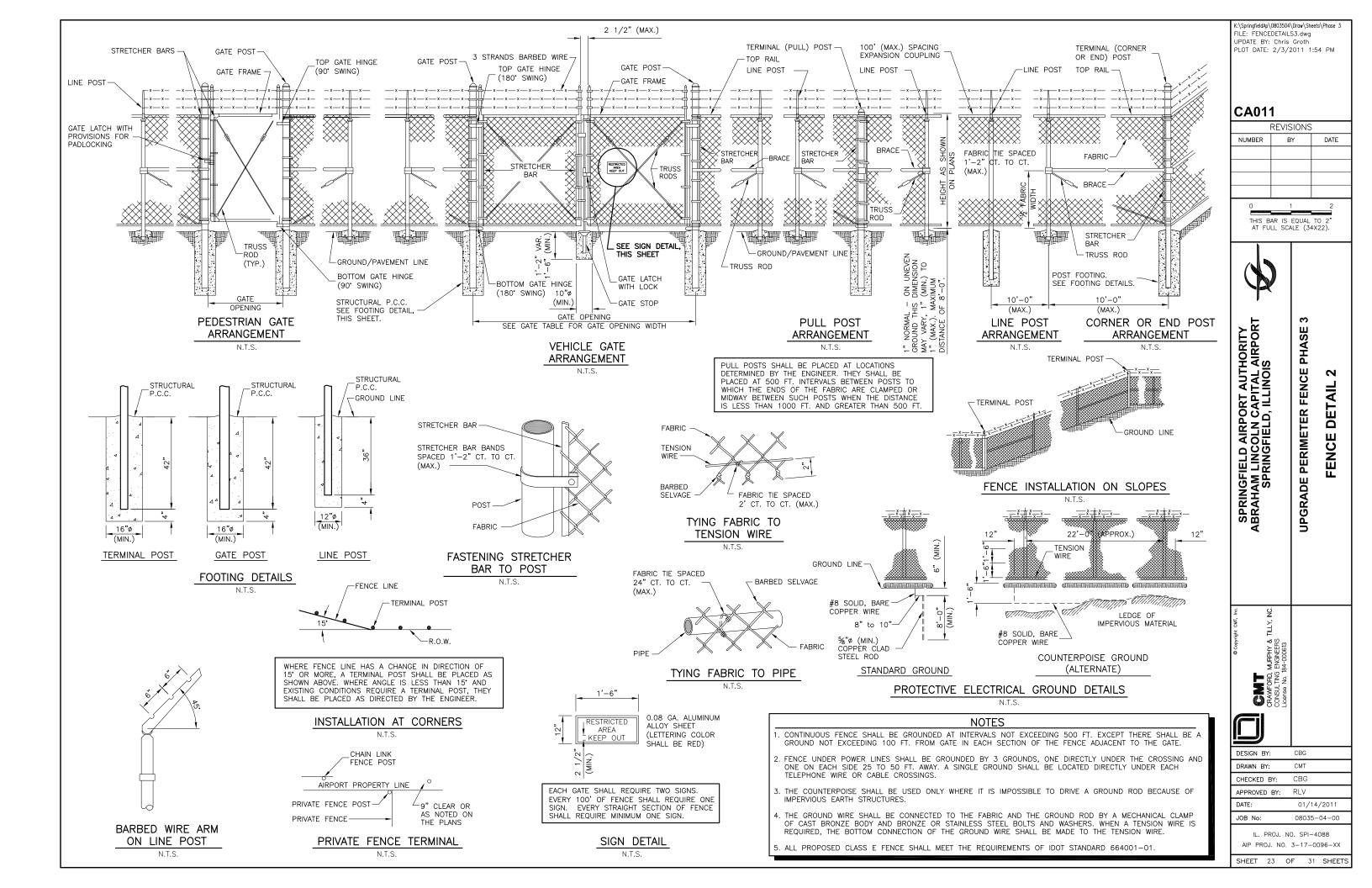
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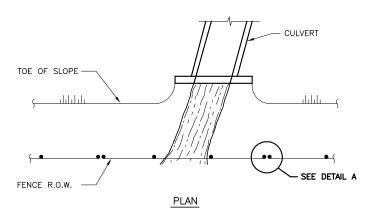
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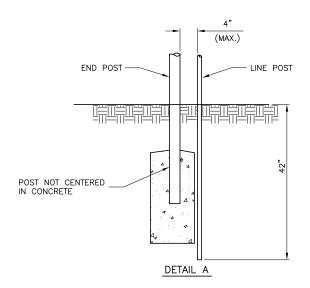
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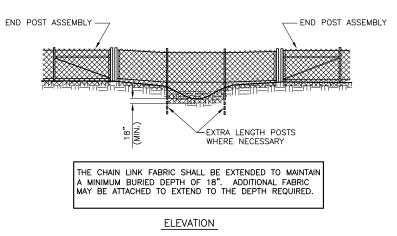
SHEET 21 OF 31 SHEETS



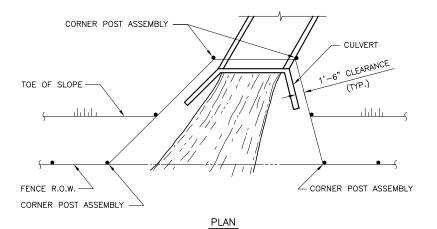


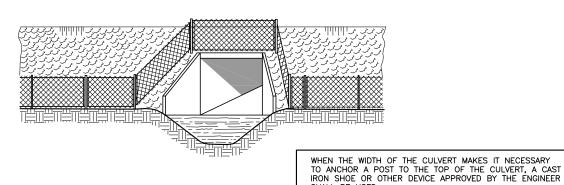




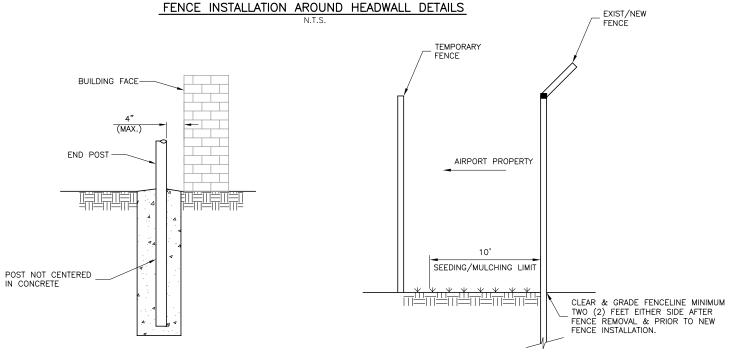


FENCE INSTALLATION OVER STREAM OR SWALES DETAILS





ELEVATION



FENCE INSTALLATION AT BUILDING FACE

TEMPORARY FENCING - TYPICAL SECTION NTS

SHALL BE USED.

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PERIMETER FENCE 3 DETAIL FENCE

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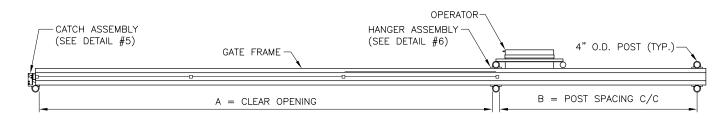
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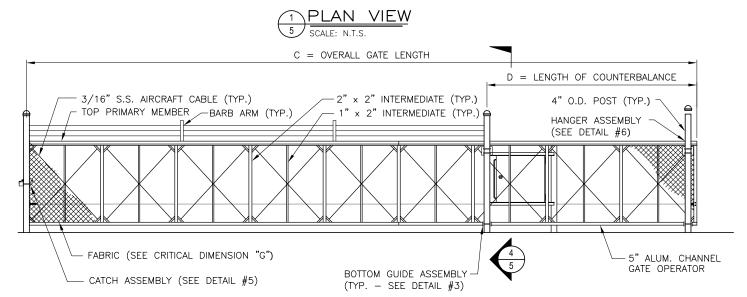


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SHEET 24 OF 31 SHEETS





ELEVATION

CANTILEVER SLIDE GATE CRITICAL DIMENSION CHART						
		14' GATE	16' GATE	20' GATE	24' GATE	26' GATE
Α	CLEAR OPENING	14'-0"	16'-0"	20'-0"	24'-0"	26'-0"
В	COUNTERBALANCE POST SPACING C/C	6'-1"	7'-1"	9'-1"	11'-1"	12'-1"
С	OVERALL GATE LENGTH	21'-0"	24'-0"	30'-0"	36'-0"	39'-0"
D	COUNTERBALANCE LENGTH	7'-0"	8'-0"	10-0"	12'-0"	13'-0"
Е	NOMINAL GATE HEIGHT	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
F	POST HEIGHT	11'-6"	11'-6"	11'-6"	11'-6"	11'-6"
G	FABRIC HEIGHT	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"



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.

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

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DETAIL FENCE GATE PERIMETER **ECTRIC** UPGRADE 핍

9 CRAWFORD, CONSULTING

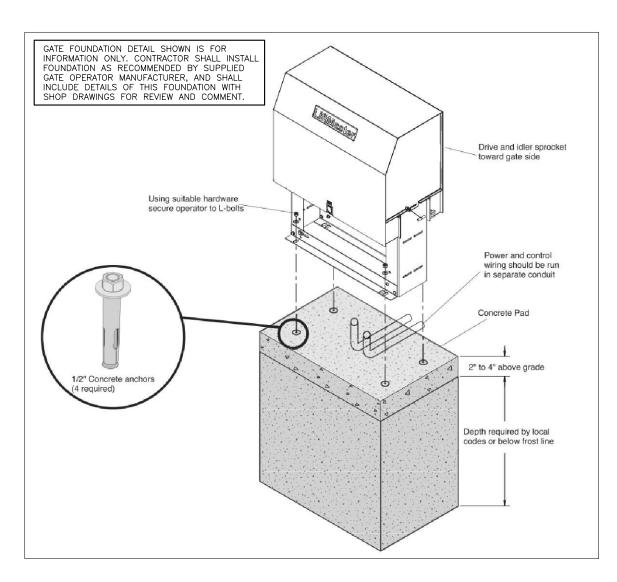


CBG DESIGN BY: DRAWN BY: CMT CBG CHECKED BY: RI V APPROVED BY: DATE: 01/14/2011 JOB No: 08035-04-00

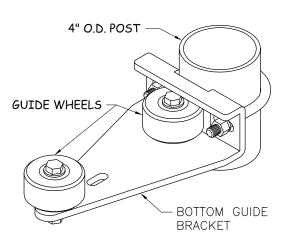
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SHEET 25 OF 31 SHEETS

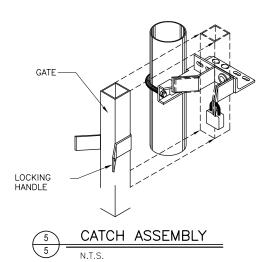
THIS SHEET IS GENERIC. EQUIPMENT LOCATIONS SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.

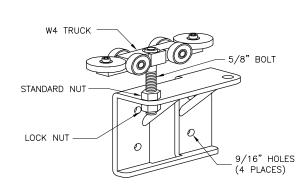


GATE OPERATOR FOUNDATION



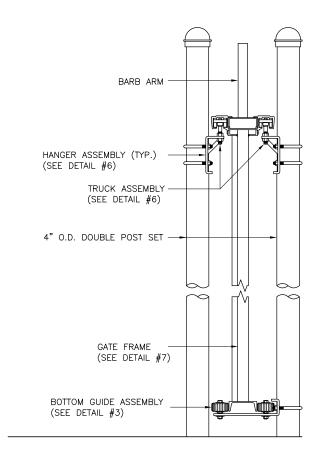




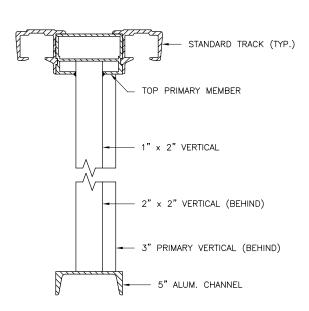




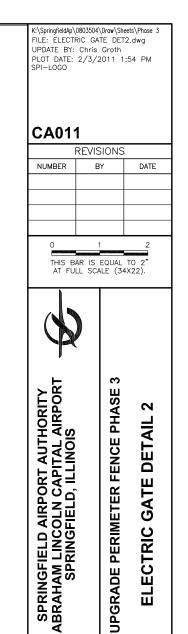
CANTILEVER SLIDE GATE DETAILS







GATE FRAME SECTION



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JOB No:

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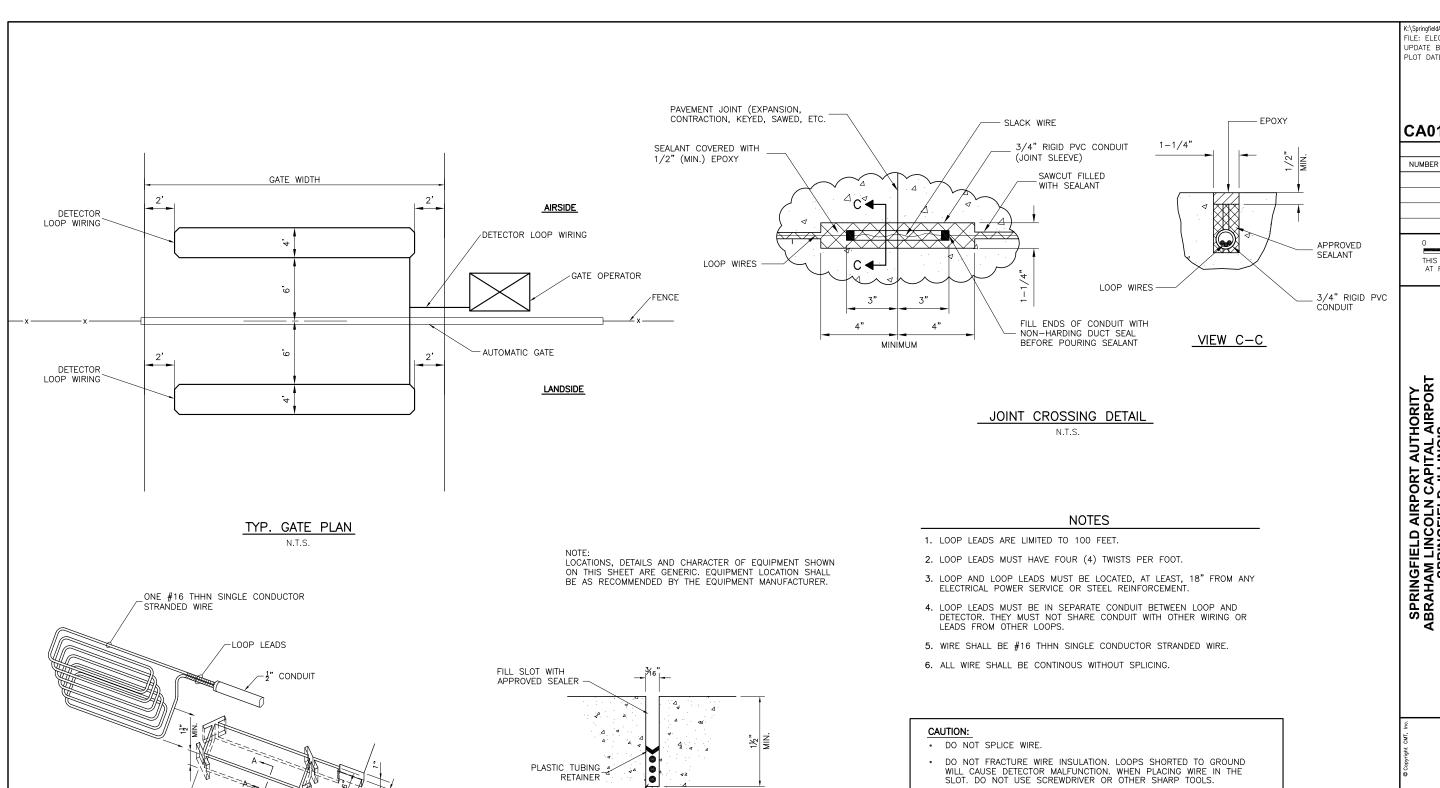
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AIP PROJ. NO. 3-17-0096-XX

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01/14/2011

08035-04-00



TYPICAL LAYOUT FOR LOOP:

- SAW SLOT 3/16" WIDE x 1-1/2" DEEP. MAKE RECTANGULAR SHAPE TO SPECIFIED LOOP DIMENSIONS PLUS SLOT FOR LEAD CONDUIT.
- GROUT WITH NO. 202 WEATHERBAN SEALANT (A PRODUCT OF 3M CO.) OR APPROVED EQUIVALENT ... (EXAMPLE: DE WITTS NO. 99 BLACK

K:\SpringfieldAp\0803504\Draw\Sheets\Phase 3
FILE: ELECTRIC GATE DETAIL 3.dwg UPDATE BY: Chris Groth PLOT DATE: 2/3/2011 1:54 PM CA011 REVISIONS BY DATE THIS BAR IS EQUAL TO 2' AT FULL SCALE (34X22). SPRINGFIELD AIRPORT AUTHORITY ABRAHAM LINCOLN CAPITAL AIRPOR SPRINGFIELD, ILLINOIS က PERIMETER FENCE DET, GATE **ECTRIC** UPGRADE CRAWFORD, CONSULTING WDP DESIGN BY: CMT CHECKED BY APPROVED BY: JOB No: 08035-04-00

IL. PROJ. NO. SPI-4088 AIP PROJ. NO. 3-17-0096-XX SHEET 27 OF 31 SHEETS

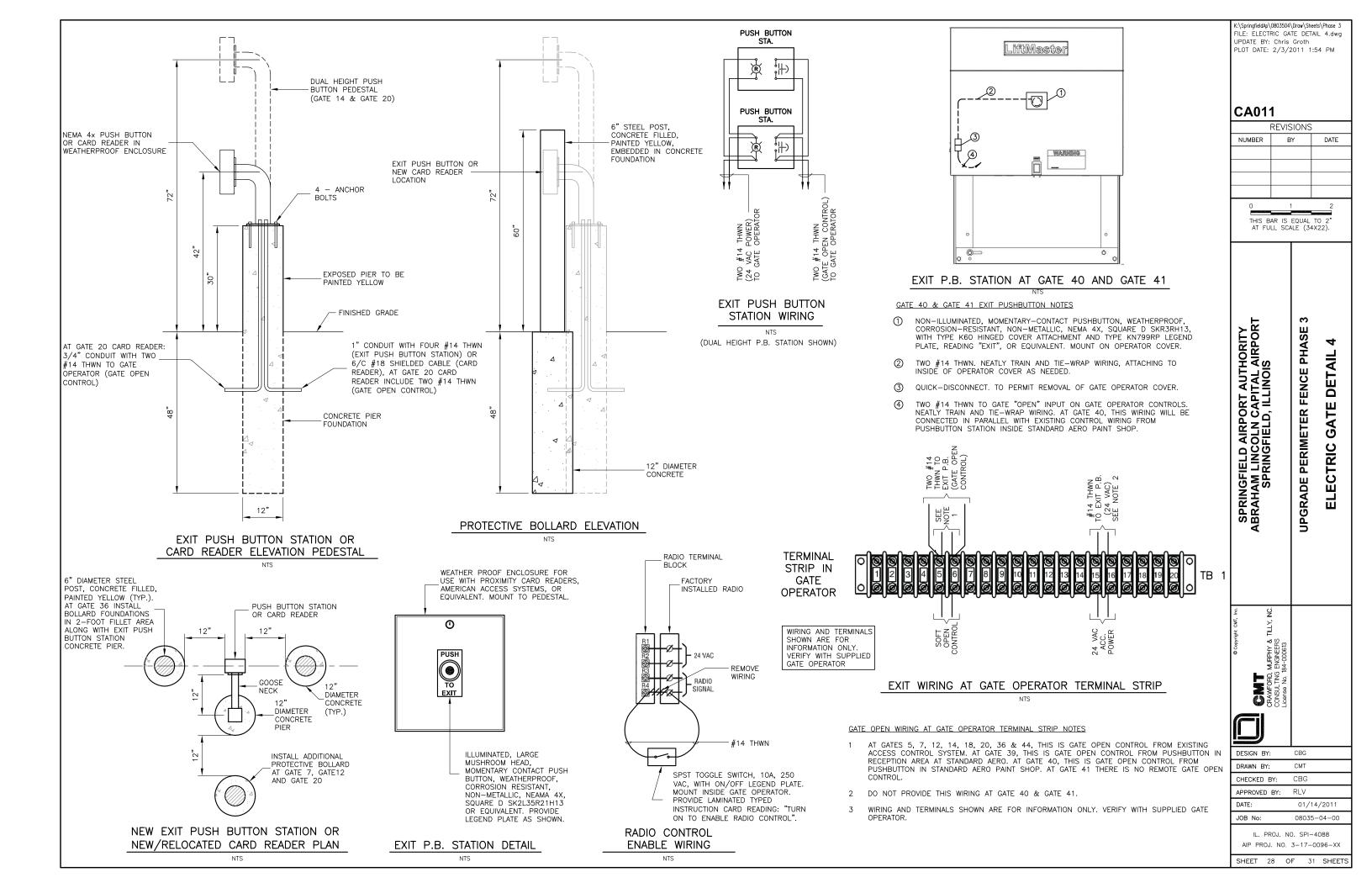
DETECTOR LOOP DETAILS

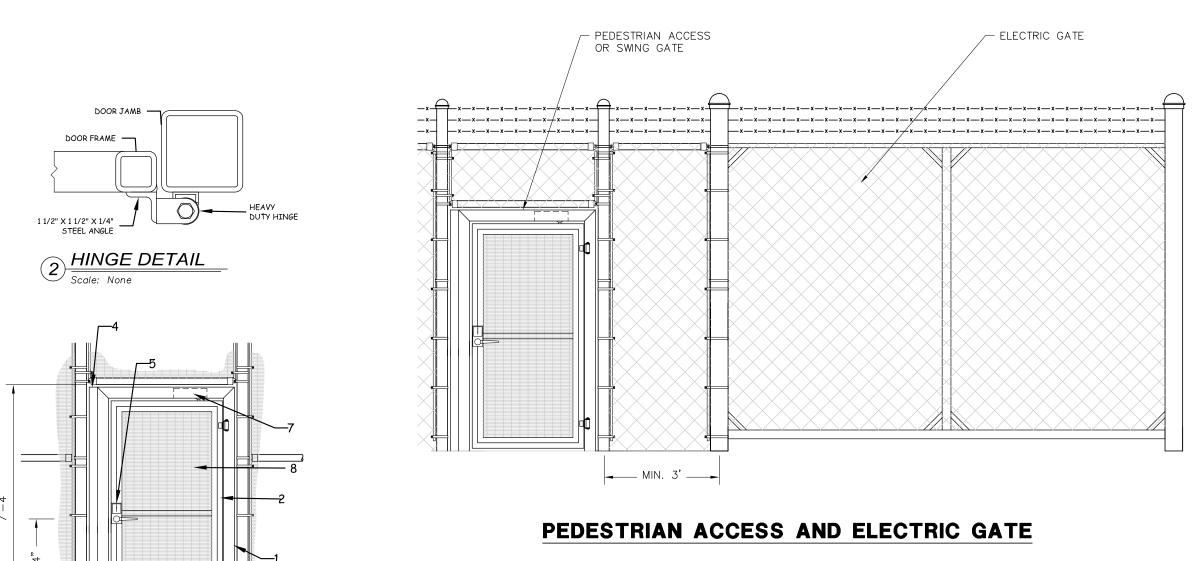
PERSPECTIVE VIEW OF DETECTOR LOOP SAW SLOT

LOOP WIRE IN

PLASTIC TUBE

SECTION A-A





PEDESTRIAN ACCESS

ITEM 610 CONCRETE

VARIES VARIES

SWING GATE ELEVATION

Scale: None

MARK	DESCRIPTION
1	DOOR JAMB (4" X 4" STEEL TUBE)
2	DOOR FRAME (2" X 2" STEEL TUBE)
3	C3 X 4.1 CHANNEL
4	3" X 3" X 3/16" STEEL ANGLE
5	MECHANICAL PUSHBUTTON LOCK
6	HEAVY DUTY HINGE
7	DOOR CLOSER
8	FABRIC

NOTES:

- AT GATES 18/19 AND 20/21 CONTRACTOR SHALL PROVIDE MINIMUM 3' BETWEEN THE ELECTRIC GATE AND
- 2. FRAMING AROUND PEDESTRIAN GATE SHALL EXTEND AND CONNECT TO THE BARBED WIRE AND TOP RAIL.
- 3. FABRIC SHALL BE PLACED ABOVE THE PEDESTRIAN ACCESS.

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FILE: FENCEDETAILS5.dwg UPDATE BY: Chris Groth
PLOT DATE: 2/3/2011 1:54 PM
SPI-LOGO

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REVISIONS			
NUMBER	BY	DATE	

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SPRINGFIELD AIRPORT AUTHORITY ABRAHAM LINCOLN CAPITAL AIRPORT SPRINGFIELD, ILLINOIS

UPGRADE PERIMETER FENCE PHASE PEDESTRIAN ACCESS DETAIL

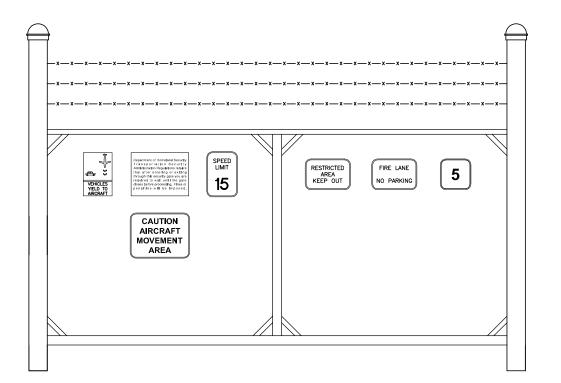
CRAWFORD, I CONSULTING

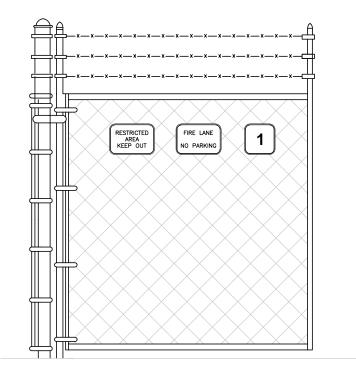


DESIGN BY: CBG CMT DRAWN BY: CHECKED BY: APPROVED BY: 01/14/2011 JOB No: 08035-04-00

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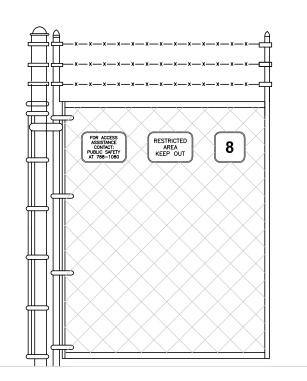
SHEET 29 OF 31 SHEETS



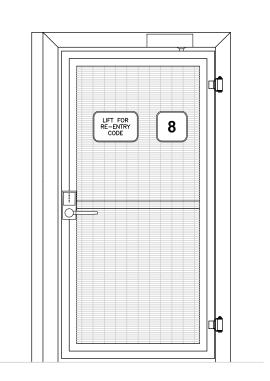


ELECTRIC GATE

VEHICLE GATE



PEDESTRIAN GATE



PEDESTRIAN ACCESS

NOTES:

- 1. SEE PROPOSED GATE PLAN FOR TYPES OF SIGNS REQUIRED AT EACH GATE.
- 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.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF EACH SIGN. SHOP DRAWINGS SHALL MEET THE APPROVAL OF THE AIRPORT AND ENGINEER PRIOR TO MANUFACTURE
- 4. SEE ELECTRIC GATE DETAIL 1 FOR ADDITIONAL GATE RELATED SIGNS.

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PHASI

SIGN DETAIL

GATE

SPRINGFIELD AIRPORT AUTHORITY ABRAHAM LINCOLN CAPITAL AIRPORT SPRINGFIELD, ILLINOIS **UPGRADE PERIMETER FENCE**

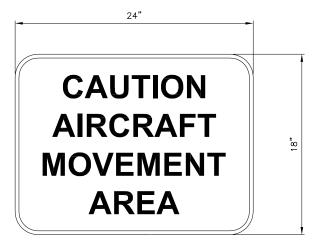
CRAWFORD, CONSULTING



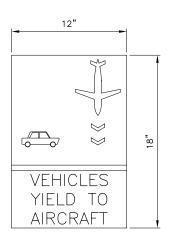
DESIGN BY: CBG CMT DRAWN BY: CBG CHECKED BY: APPROVED BY: DATE: 01/14/2011 JOB No: 08035-04-00

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SHEET 30 OF 31 SHEETS



SPEED LIMIT 15



RESTRICTED AREA KEEP OUT

KEEP OUT SIGN - L

24"

Department of Homeland Security

Transportation Security Administration Regulations require that after entering or exiting

through this security gate you are

required to wait until the gate

closes before proceeding. Fines or

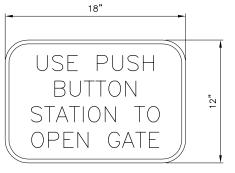
penalties will be imposed.

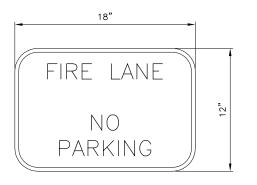
CAUTION SIGN - L



YIELD SIGN - L





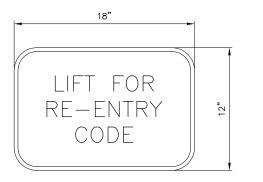


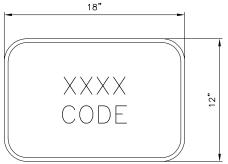
TSA SIGN - A/L

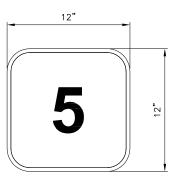
PUBLIC SAFETY SIGN - L

BUTTON EXIT - A

FIRE LANE SIGN - A/L







RE-ENTRY - A

GATE NUMBER SIGN - A/L

NOTES:

- 1. 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.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF EACH SIGN. SHOP DRAWINGS SHALL MEET THE APPROVAL OF THE AIRPORT AND ENGINEER PRIOR TO MANUFACTURE AND INSTALLATION.
- 4. LETTERING COLOR SHALL BE RED ON WHITE BACKGROUND.
- 5. EVERY 100' OF FENCE SHALL REQUIRE ONE RESTRICTED AREA SIGN. EVERY STRAIGHT SECTION OF FENCE SHALL REQUIRE MINIMUM ONE RESTRICTED AREA SIGN.
- 6. SEE ELECTRIC GATE DETAIL 1 FOR ADDITIONAL GATE RELATED SIGNS.
- 7. COSTS TO PROVIDE AND INSTALL SIGNS SHALL BE INCIDENTAL TO CONTRACT PAY ITEMS.
- 8. SIGNS NOTED WITH AN "A" SHALL BE INSTALLED ON THE AIRSIDE OF THE GATE. SIGNS NOTED WITH A "L" SHALL BE INSTALLED ON THE LAND SIDE OF THE GATE.
- 9. RE—ENTRY SIGN SHALL BE COMPRISED OF 2 INDIVIDUAL SIGNS WITH A HINGE AT THE TOP CONNECTING THE SIGNS. THE LIFT SIGN SHALL BE OUTER MOST WITH A HANDLE MOUNTED ON THE BOTTOM OF THE SIGN.

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UPGRADE PERIMETER FENCE GATE SIGN DETAIL

D. MURPHY & TILY, NC. NG ENGMERS 7. 184-000613

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SHEET 31 OF 31 SHEETS