

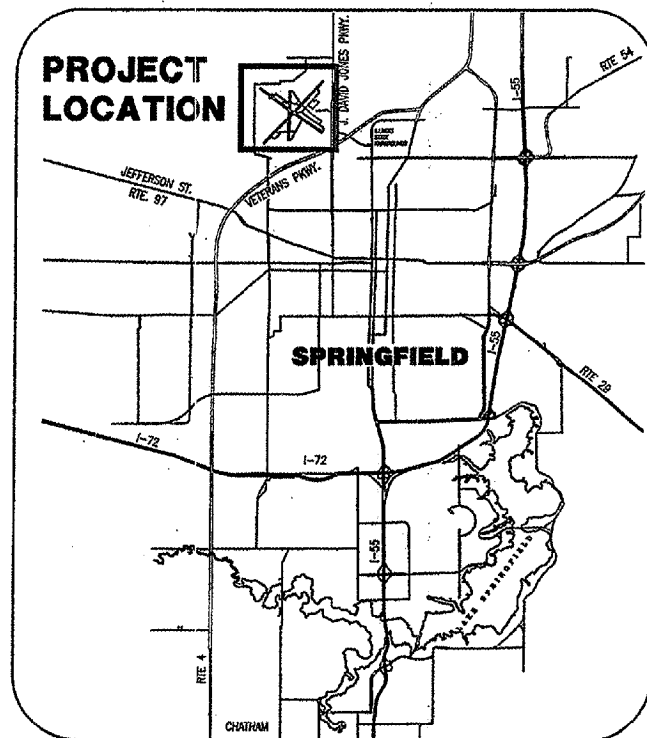
# CONSTRUCTION PLANS FOR ABRAHAM LINCOLN CAPITAL AIRPORT

## SPRINGFIELD AIRPORT AUTHORITY SPRINGFIELD, ILLINOIS

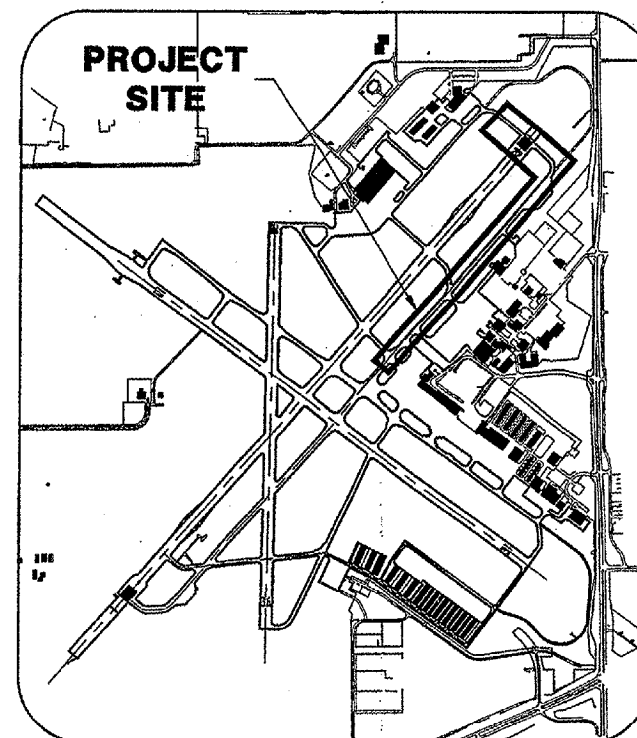
ILLINOIS PROJECT SPI - 3555  
A. I. P. PROJECT 3-17-0096-44

### WIDEN TAXIWAY A; CONSTRUCT PERIMETER ROAD

JANUARY 23, 2006



LOCATION MAP



SITE PLAN

1/23/06  
RANDALL L. VOGEL  
62-048048  
REGISTERED  
PROFESSIONAL  
ENGINEER  
OF  
ILLINOIS  
*Randall L. Vogel*  
EXP. 11/30/07

**DESIGN INFORMATION**

**GEOMETRIC CRITERIA**  
AIRPLANE DESIGN GROUP IV  
AIRCRAFT APPROACH CATEGORY D

**PAVEMENT DESIGN CRITERIA**  
AIRCRAFT DUAL WHEEL GEAR  
DEPARTURE WEIGHT = 150,000 LBS.  
1006 EQUIV. ANNUAL DEPARTURES


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

  
**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

APPROVED *[Signature]*  
EXECUTIVE DIRECTOR OF AVIATION

DATE 1/23/06

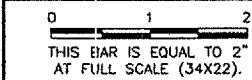
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CONSULTING ENGINEERS  
■ SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO

SUBMITTED BY *[Signature]*  
DATE 1/23/06

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72	TAXIWAY A CROSS SECTIONS 6 STA. 1187+50 TO STA. 1192+00
73	TAXIWAY A CROSS SECTIONS 7 STA. 1192+50 TO STA. 1197+50
74	TAXIWAY A CROSS SECTIONS 8 STA. 1198+00
75	TAXIWAY G CROSS SECTIONS 1 STA. 23+00 TO STA. 26+30.37
76	PERIMETER RD CROSS SECTIONS 1 STA. 2164+73.92 TO STA. 2167+21.86
77	PERIMETER RD CROSS SECTIONS 2 STA. 2167+50 TO STA. 2171+50
78	PERIMETER RD CROSS SECTIONS 3 STA. 2171+74 TO STA. 2174+00
79	PERIMETER RD CROSS SECTIONS 4 STA. 2174+50 TO STA. 2178+00
80	PERIMETER RD CROSS SECTIONS 5 STA. 2178+50 TO STA. 2183+00
81	PERIMETER RD CROSS SECTIONS 6 STA. 2183+00 TO STA. 2188+00
82	PERIMETER RD CROSS SECTIONS 7 STA. 2188+25.87 TO STA. 2194+00
83	PERIMETER RD CROSS SECTIONS 8 STA. 2194+50 TO STA. 2197+00

Summary of Quantities						
ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL	WIDEN	PERIMETER	TOTAL
			PROJECT	TXY A	ROAD	RECORD
			QUANTITY	QUANTITY	QUANTITY	QUANTITY
AR107408	L-806 WIND CONE - 8' LIGHTED	EACH	2	2	0	
AR108090	1/C #10 XLP-USE	L.F.	3000	3000	0	
AR108092	1/C #12 XLP-USE	L.F.	140	140	0	
AR108158	1/C #8 5 KV UG CABLE IN UD	L.F.	12600	12600	0	
AR800219	30-FIBER OPTIC CABLE IN UD	L.F.	220	220	0	
AR110014	4" DIRECTIONAL BORE	L.F.	125	125	0	
AR110504	4-WAY CONCRETE ENCASED DUCT	L.F.	275	115	160	
AR110550	SPLIT DUCT	L.F.	428	213	215	
AR110554	EXTEND 4-WAY DUCT	L.F.	65	65	0	
AR110907	REMOVE ELECTRICAL MANHOLE	EACH	1	1	0	
AR125415	MTL-BASE MOUNTED	EACH	144	144	0	
AR125442	TAXI GUIDANCE SIGN, 2 CHARACTER	EACH	2	2	0	
AR125443	TAXI GUIDANCE SIGN, 3 CHARACTER	EACH	3	3	0	
AR125444	TAXI GUIDANCE SIGN, 4 CHARACTER	EACH	7	7	0	
AR125445	TAXI GUIDANCE SIGN, 5 CHARACTER	EACH	4	4	0	
AR800242	REPLACE SIGN FACE	EACH	19	19	0	
AR125901	REMOVE STAKE MOUNTED LIGHT	EACH	25	25	0	
AR125902	REMOVE BASE MOUNTED LIGHT	EACH	120	120	0	
AR125903	REMOVE INPAVEMENT LIGHT	EACH	6	6	0	
AR125904	REMOVE TAXI GUIDANCE SIGN	EACH	18	18	0	
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1	1	0	
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	7770	4970	2800	
AR156520	INLET PROTECTION	EACH	21	21	0	
AR800387	BITUMINOUS BASE COURSE - 2.5"	S.Y.	7575	0	7575	
AR209604	CRUSHED AGG. BASE COURSE - 4"	S.Y.	14850	14850	0	
AR209606	CRUSHED AGG. BASE COURSE - 6"	S.Y.	7925	0	7925	
AR800378	BITUMINOUS SURFACE COURSE - 1.5"	S.Y.	8190	615	7575	
AR401655	BUTT JOINT CONSTRUCTION	S.Y.	590	590	0	
AR401900	REMOVE BITUMINOUS PAVEMENT	S.Y.	1135	520	615	
AR501513	13" PCC PAVEMENT	S.Y.	14440	14440	0	
AR501530	PCC TEST BATCH	EACH	1	1	0	
AR501665	PCC PAVEMENT SAWING	L.F.	6750	6750	0	
AR501900	REMOVE PCC PAVEMENT	S.Y.	3770	3770	0	
AR602510	BITUMINOUS PRIME COAT	GAL	3185	0	3185	
AR603510	BITUMINOUS TACK COAT	GAL	1250	100	1150	
AR620510	PAVEMENT MARKING	S.F.	26900	25650	1250	
AR620900	PAVEMENT MARKING REMOVAL	S.F.	2250	2250	0	
AR701512	12" RCP, CLASS IV	L.F.	301	301	0	
AR701521	21" RCP, CLASS IV	L.F.	224	224	0	
AR701527	27" RCP, CLASS IV	L.F.	298	298	0	
AR701530	30" RCP, CLASS IV	L.F.	388	388	0	
AR701548	48" RCP, CLASS IV	L.F.	369	369	0	
AR701900	REMOVE PIPE	L.F.	1380	1380	0	
AR705524	4" PERFORATED UNDERDRAIN W/ SOCK	L.F.	5215	5215	0	
AR705544	4" NON PERFORATED UNDERDRAIN	L.F.	575	575	0	
AR705635	UNDERDRAIN COLLECTION STRUCTURE	EACH	5	5	0	
AR705640	UNDERDRAIN CLEANOUT	EACH	10	10	0	
AR705904	REMOVE UNDERDRAIN CLEANOUT	EACH	3	3	0	
AR705905	REMOVE COLLECTION STRUCTURE	EACH	5	5	0	
AR800348	PLUG UNDERDRAIN	EACH	7	7	0	
AR751410	INLET	EACH	7	7	0	
AR751415	INLET - SPECIAL	EACH	2	2	0	
AR751900	REMOVE INLET	EACH	2	2	0	
AR751903	REMOVE MANHOLE	EACH	4	4	0	
AR752412	PRECAST REINFORCED CONC. FES 12"	EACH	2	2	0	
AR901510	SEEDING	ACRE	9	7	2	
AR904510	SODDING	S.Y.	4700	4700	0	
AR908510	MULCHING	ACRE	9	7	2	
AR908520	EXCELSIOR BLANKET	S.Y.	2000	2000	0	

REVISIONS		
NUMBER	BY	DATE



SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 INDEX TO SHEETS & SUMMARY OF QUANTITIES

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CHECKED BY:	REV
APPROVED BY:	REV
DATE:	1/23/06
JOB No:	0503507
IL PROJ. NO. SPI-3555	
AIP PROJ. NO. 3-17-0096-44	
SHEET 02 OF 83 SHEETS	

GROUND CONTROL FREQUENCY - 121.90  
 AIR CONTROL FREQUENCY - 124.30  
 MAXIMUM HEIGHT OF EQUIPMENT - 25'

(T.R. 3.75 N.)  
 DRIVE ESTILL

(T.R. 3.6 N.)  
 TOZER ROAD

(1.45 W)  
 OLD HICKORY LN

(T.R. 3.6 N.) TOZER ROAD

PRIVATE DR.

EXCESS EARTHWORK DISPOSAL

ILLINOIS 29 ROUTE

RESIDENT ENGINEER'S FIELD OFFICE

PROPOSED IMPROVEMENTS

JONES J. DAVID PARKWAY

JONES J. DAVID PARKWAY

(T.R. 2.25 N.)  
 IRWIN ROAD

(T.R. 1.0 W.)  
 WILBUR ROAD

(T.R. 2.0 N.)  
 PULLIAM ROAD

VETERANS PARKWAY

(T.R. 2.0 W.)  
 HENNEPIN ROAD

(T.R. 2.0 W.)  
 HENNEPIN ROAD

GENERAL NOTES

CA002

K:\SpringfieldAp\1503507\DrawSheets  
 FILE: 03\_SITE.dwg  
 UPDATE BY: Dave Allen  
 PLOT DATE: 2/7/2006 10:56 AM  
 tbinfo  
 Capitol\_Base:  
 BASE\_PROPGEO

REVISIONS

NUMBER	BY	DATE

0 1 2  
 THIS BAR IS EQUAL TO 2'  
 AT FULL SCALE (34x22).

SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD

SITE PLAN

- ALL RUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRPORT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED IN THE CONSTRUCTION ACTIVITY PLAN.
- ALL CONSTRUCTION TRAFFIC OPERATING ON OR CROSSING RUNWAYS, TAXIWAYS, AND APRONS OPEN TO AIRCRAFT TRAFFIC SHALL BE UNDER CONTROL OF A FLAGMAN IN RADIO CONTACT WITH FAA AIR TRAFFIC CONTROL TOWER PERSONNEL AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE HIS OWN RADIOS AND ONLY HIS PERSONNEL WHO HAVE SUCCESSFULLY COMPLETED THE APPROVED SAA/FAA SAFETY COURSE MAY OPERATE THESE RADIOS.
- 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 AIRPORT DIRECTOR.
- THE CONTRACTOR WILL BE PERMITTED TO STORE EQUIPMENT AND MATERIALS AT THE LOCATIONS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN. THE MAXIMUM HEIGHT OF EQUIPMENT, MATERIALS AND STOCKPILES SHALL BE 25' ABOVE GROUND ELEVATION.
- BROKEN ASPHALT SHALL BE DISPOSED OF BY THE CONTRACTOR OFF OF AIRPORT PROPERTY UNLESS OTHERWISE DIRECTED BY THE AIRPORT.
- VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED WITHIN 95' FROM THE CENTERLINE OF ACTIVE TAXIWAYS OR 250' FROM THE CENTERLINE OF ACTIVE RUNWAYS.
- 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 AIRPORT.
- THE CONTRACTOR SHALL CONTINUOUSLY CLEAN CONSTRUCTION AREAS WHICH WILL BE OPENED TO AIR TRAFFIC.
- 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.
- CONTRACTOR'S ACCESS SHALL BE AS FOLLOWS:
  - THE CONTRACTOR'S ACCESS TO WORK SHALL BE AS SHOWN IN THE PLANS.
  - 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 CONTRACTOR.
  - THE CONTRACTOR SHALL USE AN EXISTING GATE(S) FOR ACCESS TO THE AIRFIELD. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A 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 RESIDENT ENGINEER.
  - 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.
  - 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 WORK SITE.
  - 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. THE CONTRACTOR SHALL REPLACE ANY UNSATISFACTORY SECURITY GUARDS AS DIRECTED.
  - THE CONTRACTOR SHALL CLOSE AND LOCK THE ACCESS GATE(S) UPON LEAVING THE SITE.
  - 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 SAFETY AREAS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ACTIVE AIRFIELD PAVEMENTS WHICH ARE CROSSED BY HIS VEHICLES ACCESSING
- EXCESS EARTHWORK DISPOSAL SHALL BE AS FOLLOWS:
  - EXCESS EARTHWORK SHALL BE DISPOSED AT THE LOCATION SHOWN, AS DIRECTED BY THE AIRPORT.
  - EXCESS EARTHWORK SHALL BE NEATLY STOCKPILED IN MULTIPLE LAYERS TO MINIMIZE AREA USED.

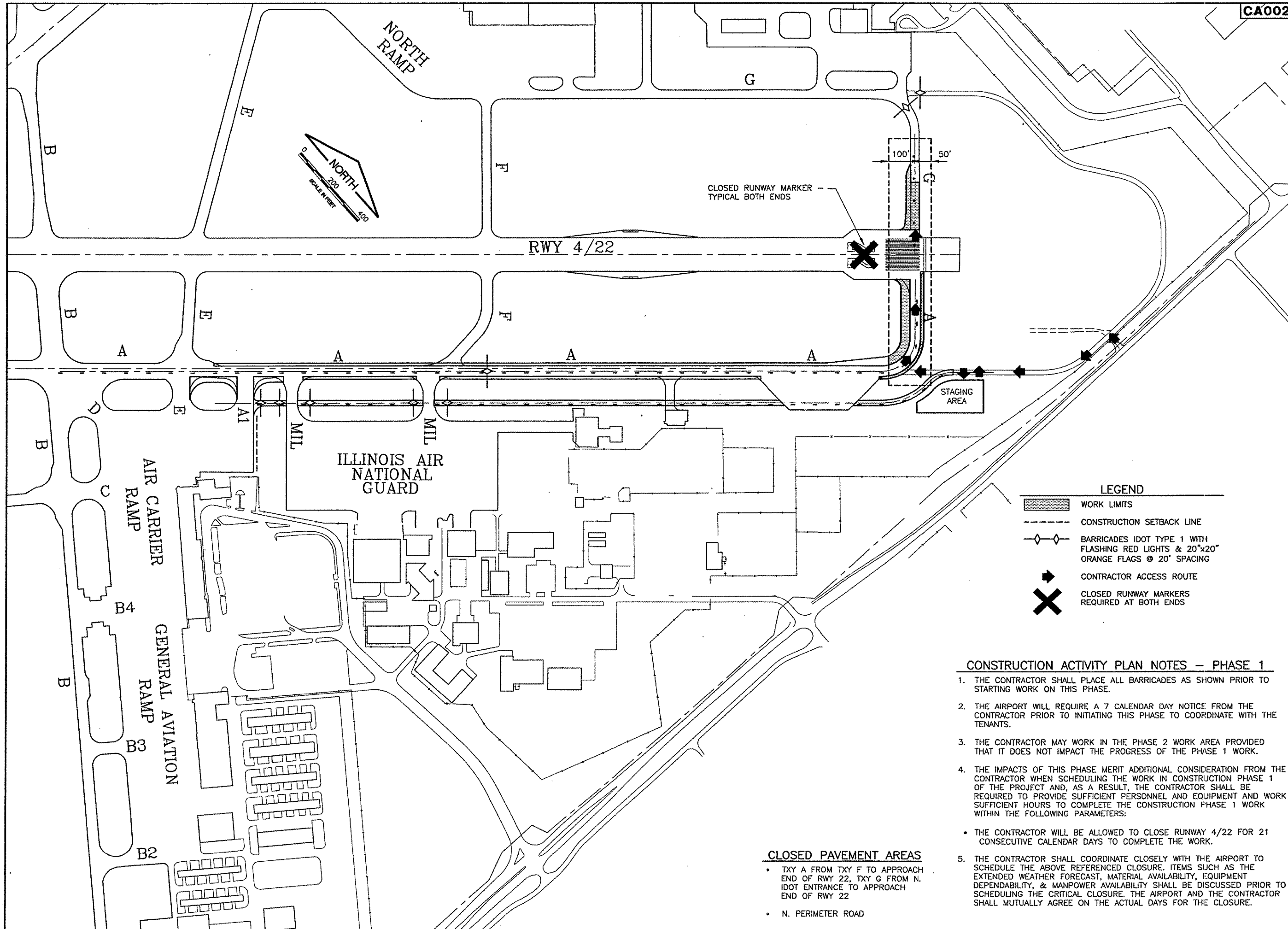
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IL PROJ. NO. SPI-3555	
AIP PROJ. NO. 3-17-0096-44	
SHEET 03 OF 83 SHEETS	

REVISIONS		
NUMBER	BY	DATE

0 1 2  
 THIS BAR IS EQUAL TO 2"  
 AT FULL SCALE (34X22).



**LEGEND**

- WORK LIMITS
- CONSTRUCTION SETBACK LINE
- BARRICADES IDOT TYPE 1 WITH FLASHING RED LIGHTS & 20"x20" ORANGE FLAGS @ 20' SPACING
- CONTRACTOR ACCESS ROUTE
- CLOSED RUNWAY MARKERS REQUIRED AT BOTH ENDS

**CONSTRUCTION ACTIVITY PLAN NOTES - PHASE 1**

1. THE CONTRACTOR SHALL PLACE ALL BARRICADES AS SHOWN PRIOR TO STARTING WORK ON THIS PHASE.
2. THE AIRPORT WILL REQUIRE A 7 CALENDAR DAY NOTICE FROM THE CONTRACTOR PRIOR TO INITIATING THIS PHASE TO COORDINATE WITH THE TENANTS.
3. THE CONTRACTOR MAY WORK IN THE PHASE 2 WORK AREA PROVIDED THAT IT DOES NOT IMPACT THE PROGRESS OF THE PHASE 1 WORK.
4. THE IMPACTS OF THIS PHASE MERIT ADDITIONAL CONSIDERATION FROM THE CONTRACTOR WHEN SCHEDULING THE WORK IN CONSTRUCTION PHASE 1 OF THE PROJECT AND, AS A RESULT, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE SUFFICIENT PERSONNEL AND EQUIPMENT AND WORK SUFFICIENT HOURS TO COMPLETE THE CONSTRUCTION PHASE 1 WORK WITHIN THE FOLLOWING PARAMETERS:
  - THE CONTRACTOR WILL BE ALLOWED TO CLOSE RUNWAY 4/22 FOR 21 CONSECUTIVE CALENDAR DAYS TO COMPLETE THE WORK.
5. THE CONTRACTOR SHALL COORDINATE CLOSELY WITH THE AIRPORT TO SCHEDULE THE ABOVE REFERENCED CLOSURE. ITEMS SUCH AS THE EXTENDED WEATHER FORECAST, MATERIAL AVAILABILITY, EQUIPMENT DEPENDABILITY, & MANPOWER AVAILABILITY SHALL BE DISCUSSED PRIOR TO SCHEDULING THE CRITICAL CLOSURE. THE AIRPORT AND THE CONTRACTOR SHALL MUTUALLY AGREE ON THE ACTUAL DAYS FOR THE CLOSURE.

**CLOSED PAVEMENT AREAS**

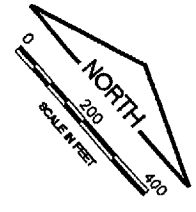
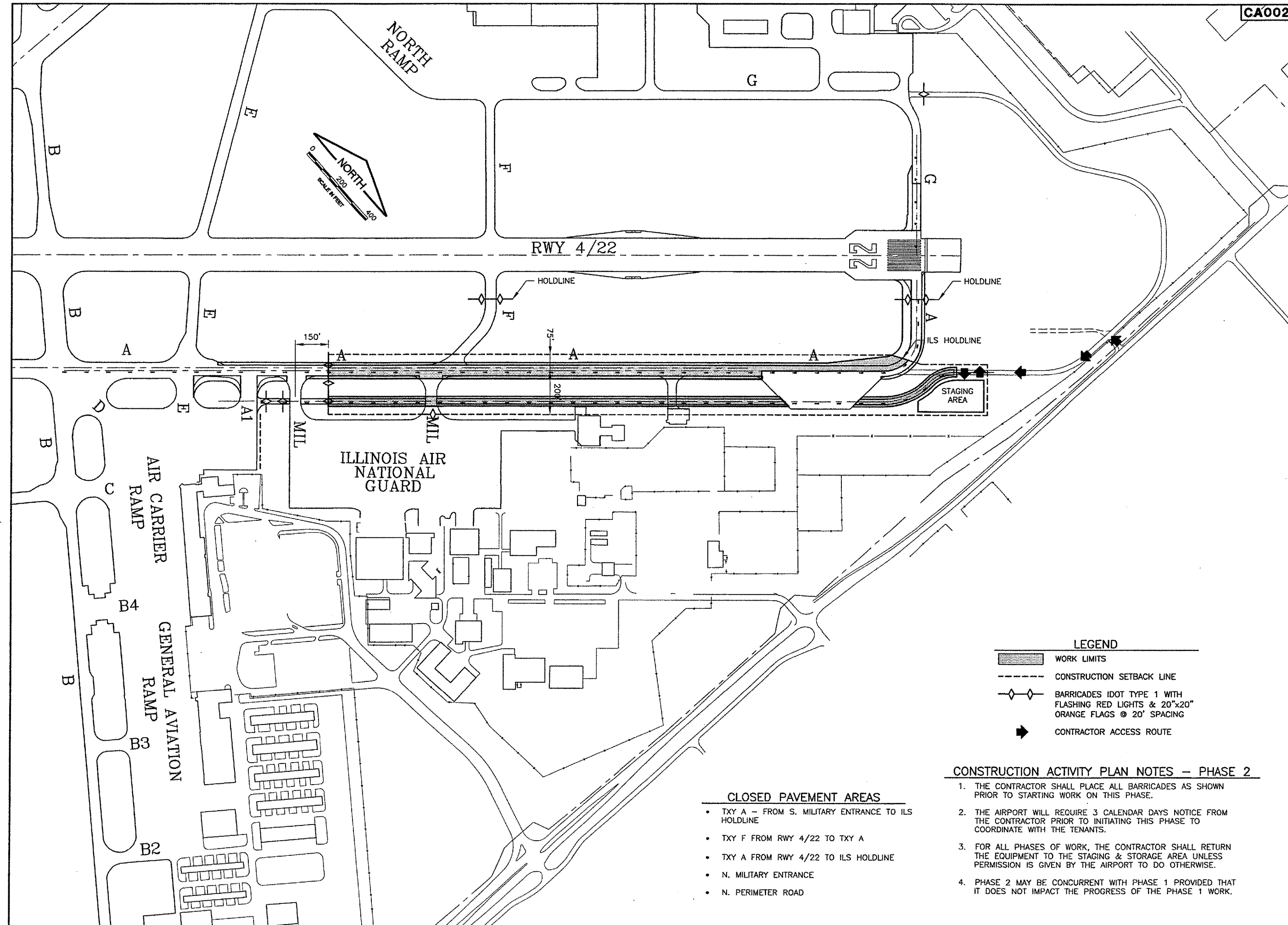
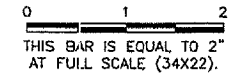
- TXY A FROM TXY F TO APPROACH END OF RWY 22, TXY G FROM N. IDOT ENTRANCE TO APPROACH END OF RWY 22
- N. PERIMETER ROAD


**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**  
**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**CONSTRUCTION ACTIVITY PLAN 1**

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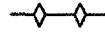

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AIP PROJ. NO. 3-17-0096-44	
SHEET .04 OF 83 SHEETS	

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NUMBER	BY	DATE



  
**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**CONSTRUCTION ACTIVITY PLAN 2**

- LEGEND**
-  WORK LIMITS
  -  CONSTRUCTION SETBACK LINE
  -  BARRICADES IDOT TYPE 1 WITH FLASHING RED LIGHTS & 20"x20" ORANGE FLAGS @ 20' SPACING
  -  CONTRACTOR ACCESS ROUTE

- CLOSED PAVEMENT AREAS**
- TXY A - FROM S. MILITARY ENTRANCE TO ILS HOLDLINE
  - TXY F FROM RWY 4/22 TO TXY A
  - TXY A FROM RWY 4/22 TO ILS HOLDLINE
  - N. MILITARY ENTRANCE
  - N. PERIMETER ROAD

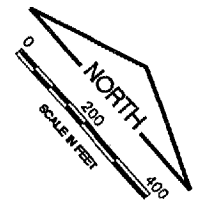
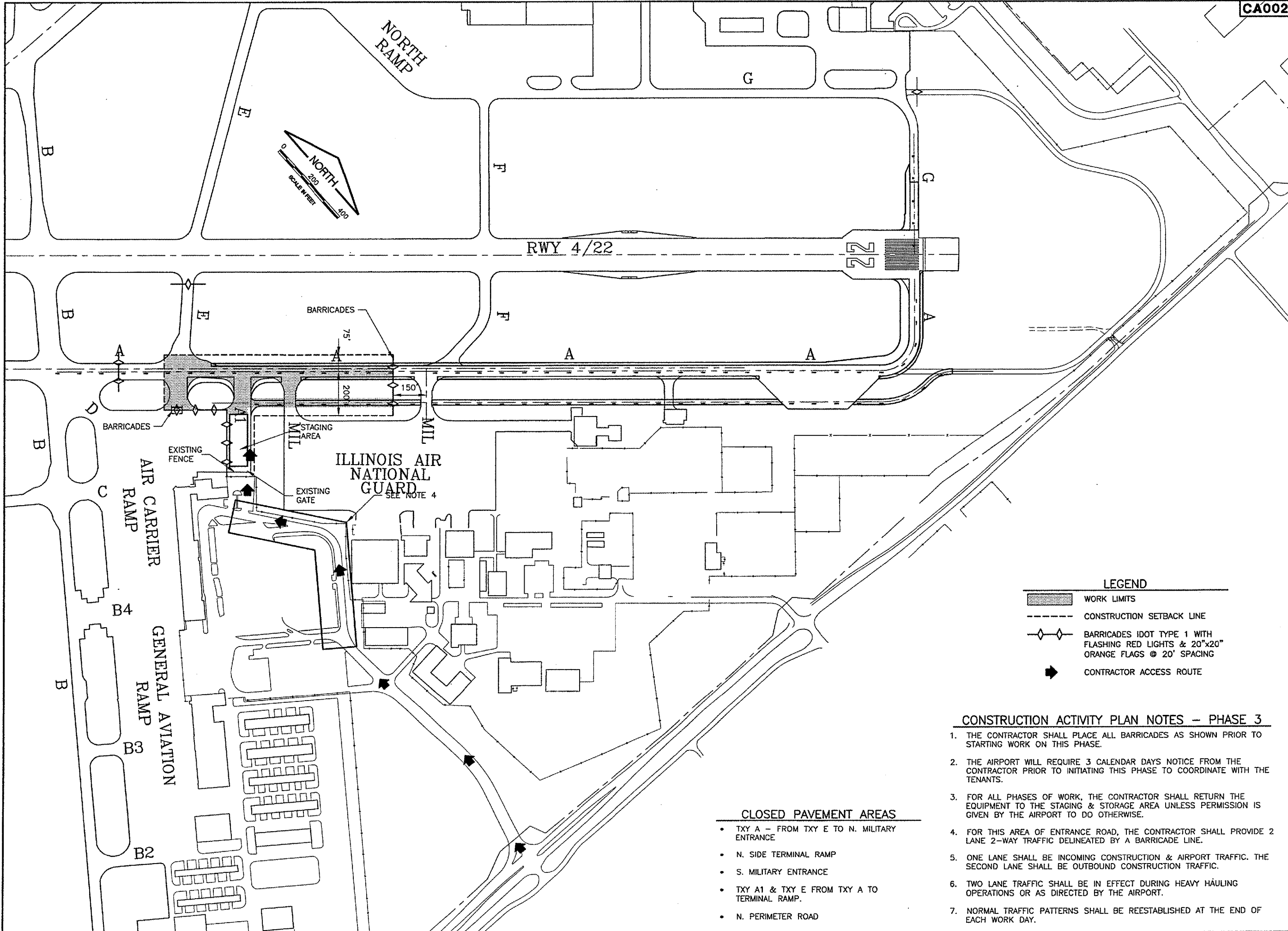
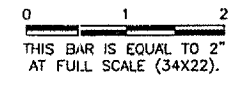
**CONSTRUCTION ACTIVITY PLAN NOTES - PHASE 2**

1. THE CONTRACTOR SHALL PLACE ALL BARRICADES AS SHOWN PRIOR TO STARTING WORK ON THIS PHASE.
2. THE AIRPORT WILL REQUIRE 3 CALENDAR DAYS NOTICE FROM THE CONTRACTOR PRIOR TO INITIATING THIS PHASE TO COORDINATE WITH THE TENANTS.
3. FOR ALL PHASES OF WORK, THE CONTRACTOR SHALL RETURN THE EQUIPMENT TO THE STAGING & STORAGE AREA UNLESS PERMISSION IS GIVEN BY THE AIRPORT TO DO OTHERWISE.
4. PHASE 2 MAY BE CONCURRENT WITH PHASE 1 PROVIDED THAT IT DOES NOT IMPACT THE PROGRESS OF THE PHASE 1 WORK.

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CHECKED BY:	RLV
APPROVED BY:	RLV
DATE:	1/23/06
JOB No:	0503507
IL PROJ. NO.	SPI-3555
AIP PROJ. NO.	3-17-0096-44
SHEET	05 OF 83 SHEETS

REVISIONS		
NUMBER	BY	DATE



**LEGEND**

	WORK LIMITS
	CONSTRUCTION SETBACK LINE
	BARRICADES IDOT TYPE 1 WITH FLASHING RED LIGHTS & 20"x20" ORANGE FLAGS @ 20' SPACING
	CONTRACTOR ACCESS ROUTE

**CONSTRUCTION ACTIVITY PLAN NOTES - PHASE 3**

1. THE CONTRACTOR SHALL PLACE ALL BARRICADES AS SHOWN PRIOR TO STARTING WORK ON THIS PHASE.
2. THE AIRPORT WILL REQUIRE 3 CALENDAR DAYS NOTICE FROM THE CONTRACTOR PRIOR TO INITIATING THIS PHASE TO COORDINATE WITH THE TENANTS.
3. FOR ALL PHASES OF WORK, THE CONTRACTOR SHALL RETURN THE EQUIPMENT TO THE STAGING & STORAGE AREA UNLESS PERMISSION IS GIVEN BY THE AIRPORT TO DO OTHERWISE.
4. FOR THIS AREA OF ENTRANCE ROAD, THE CONTRACTOR SHALL PROVIDE 2 LANE 2-WAY TRAFFIC DELINEATED BY A BARRICADE LINE.
5. ONE LANE SHALL BE INCOMING CONSTRUCTION & AIRPORT TRAFFIC. THE SECOND LANE SHALL BE OUTBOUND CONSTRUCTION TRAFFIC.
6. TWO LANE TRAFFIC SHALL BE IN EFFECT DURING HEAVY HAULING OPERATIONS OR AS DIRECTED BY THE AIRPORT.
7. NORMAL TRAFFIC PATTERNS SHALL BE REESTABLISHED AT THE END OF EACH WORK DAY.

**CLOSED PAVEMENT AREAS**

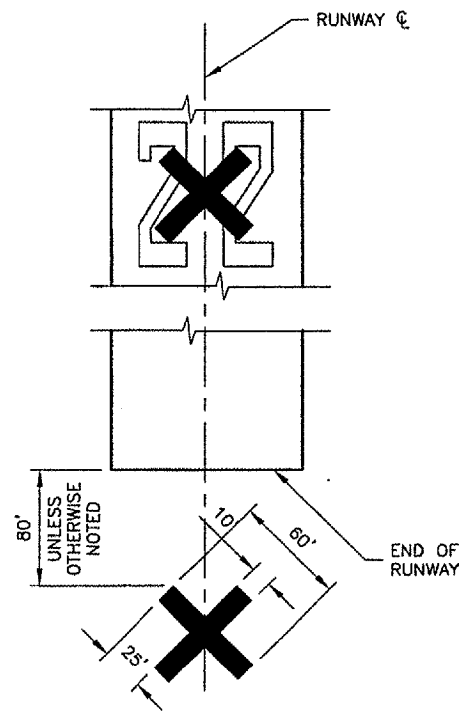
- TXY A - FROM TXY E TO N. MILITARY ENTRANCE
- N. SIDE TERMINAL RAMP
- S. MILITARY ENTRANCE
- TXY A1 & TXY E FROM TXY A TO TERMINAL RAMP.
- N. PERIMETER ROAD

**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**CONSTRUCTION ACTIVITY PLAN 3**

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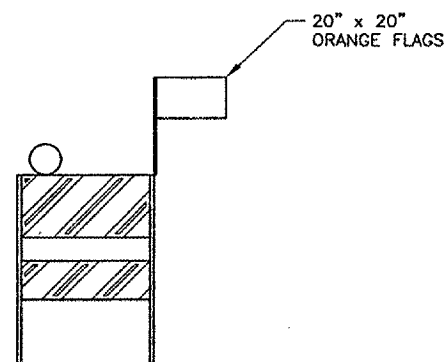
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JOB No:	0503507
IL. PROJ. NO. SPI-3555	
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SHEET 06 OF 83 SHEETS	



**CLOSED RUNWAY MARKER DETAIL**  
 N.T.S.

**NOTES**

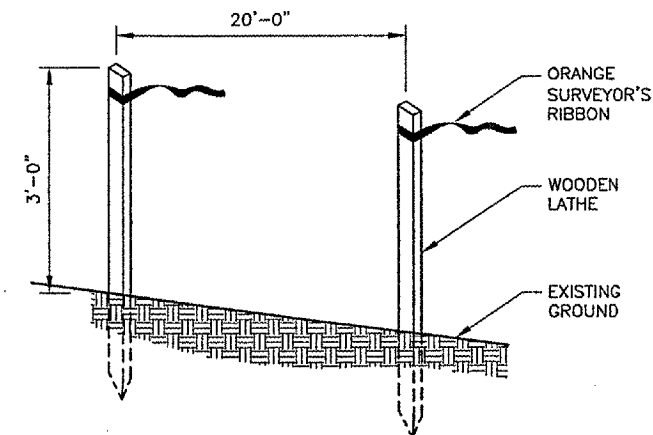
1. MARKERS SHALL BE SOLID YELLOW.
2. MARKERS SHALL BE PAINTED BURLAP, PLYWOOD OR OTHER APPROVED SOLID MATERIALS.
3. CONTRACTOR SHALL MAINTAIN MARKERS.
4. COST OF FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING MARKERS SHALL BE INCIDENTAL TO THE CONTRACT.
5. MARKERS SHALL BE PLACED OVER EXISTING RUNWAY NUMERALS. HOWEVER, WHEN WORK IS NECESSARY FOR THAT AREA OR PAVEMENT IS OPEN TO TAXIING AIRCRAFT, THE MARKERS SHALL BE RELOCATED OFF THE PAVEMENT AS SHOWN ON THE DETAIL.



**FLASHER BARRICADE DETAIL**  
 N.T.S.

**FLASHER BARRICADE NOTES**

1. FLASHERS TO BE BATTERY OPERATED. LENS TO BE RED AND BE ABLE TO ROTATE 90 DEGREES.
2. SANDBAGS TO BE PLACED ON EACH SUPPORT BRACE AS REQUIRED TO PREVENT DISPLACEMENT BY WIND, JET OR PROP BLAST.
3. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM. COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
4. PLACE AT 20' INTERVALS.



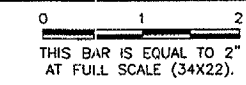
**CONSTRUCTION SETBACK LINE DETAIL**  
 N.T.S.

**CONTRACTOR ACCESS ROUTE NOTES**

1. THE PROPOSED CONTRACTOR'S ACCESS ROUTE (EXISTING NORTHEAST PERIMETER ROAD) PAVEMENT STRUCTURE IS:
  - 3" BITUMINOUS SURFACE COURSE (PLACED 2005) - EXCELLENT CONDITION
  - 3" BITUMINOUS SURFACE COURSE (PLACED 1988)
  - 6" CRUSHED AGGREGATE BASE COURSE (PLACED 1988)
2. THE CONTRACTOR MAY USE THE EXISTING NORTHEAST PERIMETER ROAD FOR ACCESS IF HE FEELS THE PAVEMENT STRUCTURE IS SUFFICIENT TO SUPPORT HIS OPERATIONS WITHOUT DAMAGE OR DISTRESS.
3. IF THE CONTRACTOR ELECTS NOT TO USE THE EXISTING PERIMETER ROAD PAVEMENT, HE SHALL CONSTRUCT AN ACCESS ROUTE SUFFICIENT TO SUPPORT HIS OPERATIONS ON THE OUTSIDE (ROUTE 29 SIDE) OF THE EXISTING PERIMETER ROAD.
4. ALL PAVEMENTS OR TURF AREAS UTILIZED BY THE CONTRACTOR FOR AN ACCESS ROUTE, STAGING, OR STORAGE SHALL BE REPAIRED AND RESTORED TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE AIRPORT. NO ADDITIONAL COMPENSATION TO PROTECT, REPAIR, OR RESTORE THESE AREAS SHALL BE MADE.

REVISIONS

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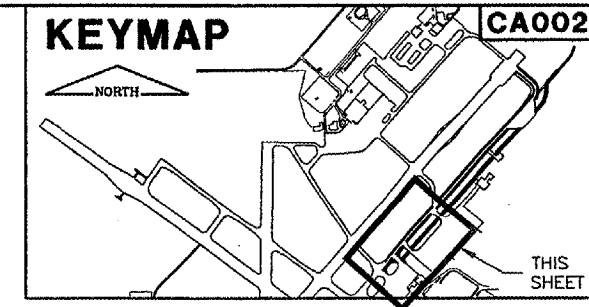


**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**CONSTRUCTION ACTIVITY PLAN DETAILS**

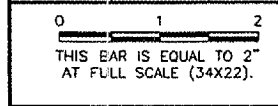
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SHEET	07 OF 83 SHEETS




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REVISIONS		
NUMBER	BY	DATE



  
**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

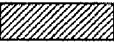
**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**EXISTING PAVEMENT STRUCTURE 1**

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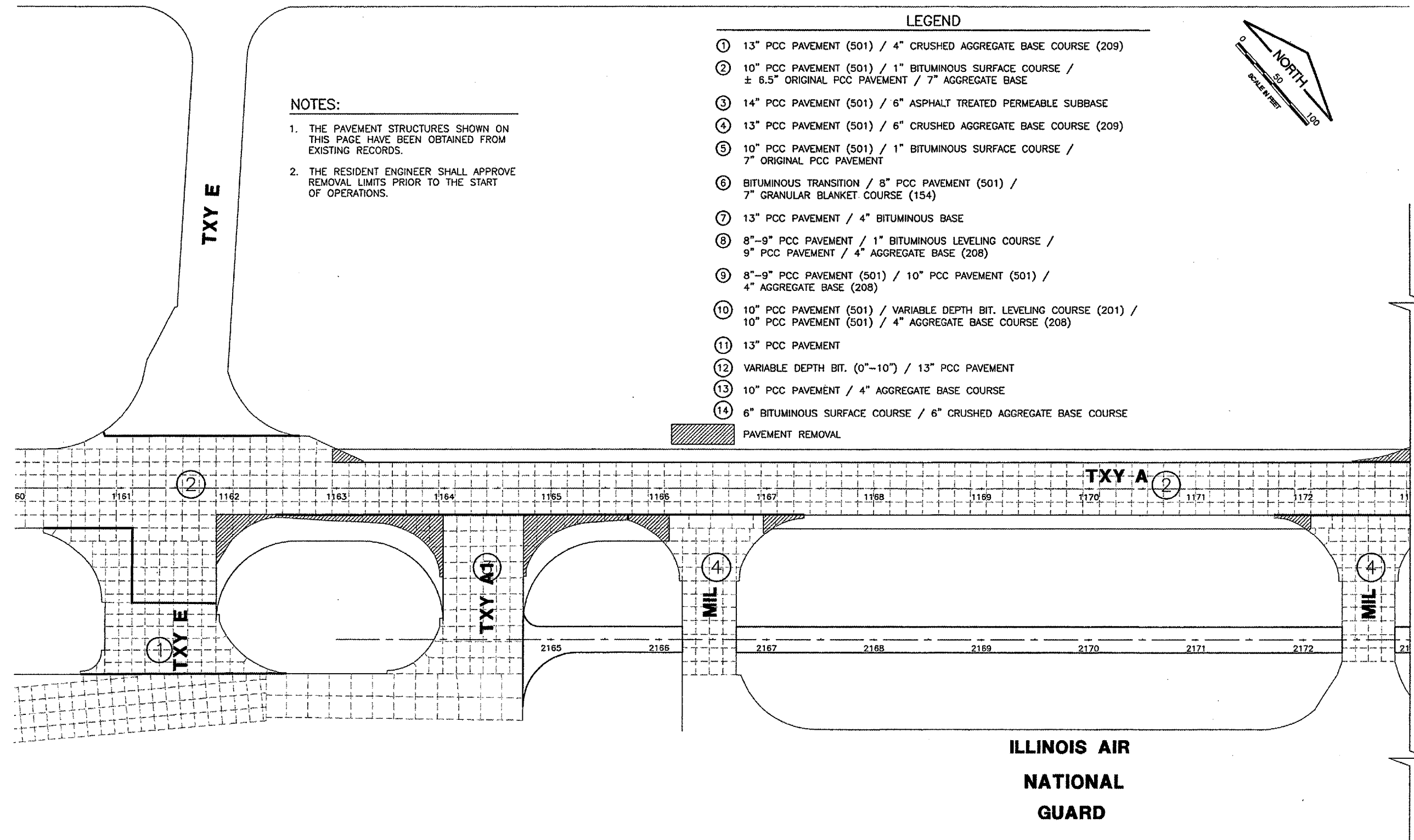
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 AIP PROJ. NO. 3-17-0096-44

**LEGEND**

- ① 13" PCC PAVEMENT (501) / 4" CRUSHED AGGREGATE BASE COURSE (209)
  - ② 10" PCC PAVEMENT (501) / 1" BITUMINOUS SURFACE COURSE / ± 6.5" ORIGINAL PCC PAVEMENT / 7" AGGREGATE BASE
  - ③ 14" PCC PAVEMENT (501) / 6" ASPHALT TREATED PERMEABLE SUBBASE
  - ④ 13" PCC PAVEMENT (501) / 6" CRUSHED AGGREGATE BASE COURSE (209)
  - ⑤ 10" PCC PAVEMENT (501) / 1" BITUMINOUS SURFACE COURSE / 7" ORIGINAL PCC PAVEMENT
  - ⑥ BITUMINOUS TRANSITION / 8" PCC PAVEMENT (501) / 7" GRANULAR BLANKET COURSE (154)
  - ⑦ 13" PCC PAVEMENT / 4" BITUMINOUS BASE
  - ⑧ 8"-9" PCC PAVEMENT / 1" BITUMINOUS LEVELING COURSE / 9" PCC PAVEMENT / 4" AGGREGATE BASE (208)
  - ⑨ 8"-9" PCC PAVEMENT (501) / 10" PCC PAVEMENT (501) / 4" AGGREGATE BASE (208)
  - ⑩ 10" PCC PAVEMENT (501) / VARIABLE DEPTH BIT. LEVELING COURSE (201) / 10" PCC PAVEMENT (501) / 4" AGGREGATE BASE COURSE (208)
  - ⑪ 13" PCC PAVEMENT
  - ⑫ VARIABLE DEPTH BIT. (0"-10") / 13" PCC PAVEMENT
  - ⑬ 10" PCC PAVEMENT / 4" AGGREGATE BASE COURSE
  - ⑭ 6" BITUMINOUS SURFACE COURSE / 6" CRUSHED AGGREGATE BASE COURSE
-  PAVEMENT REMOVAL

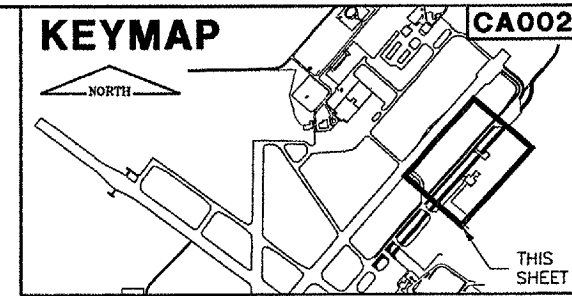
**NOTES:**

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- 2. THE RESIDENT ENGINEER SHALL APPROVE REMOVAL LIMITS PRIOR TO THE START OF OPERATIONS.



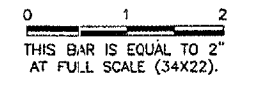
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**NATIONAL**  
**GUARD**





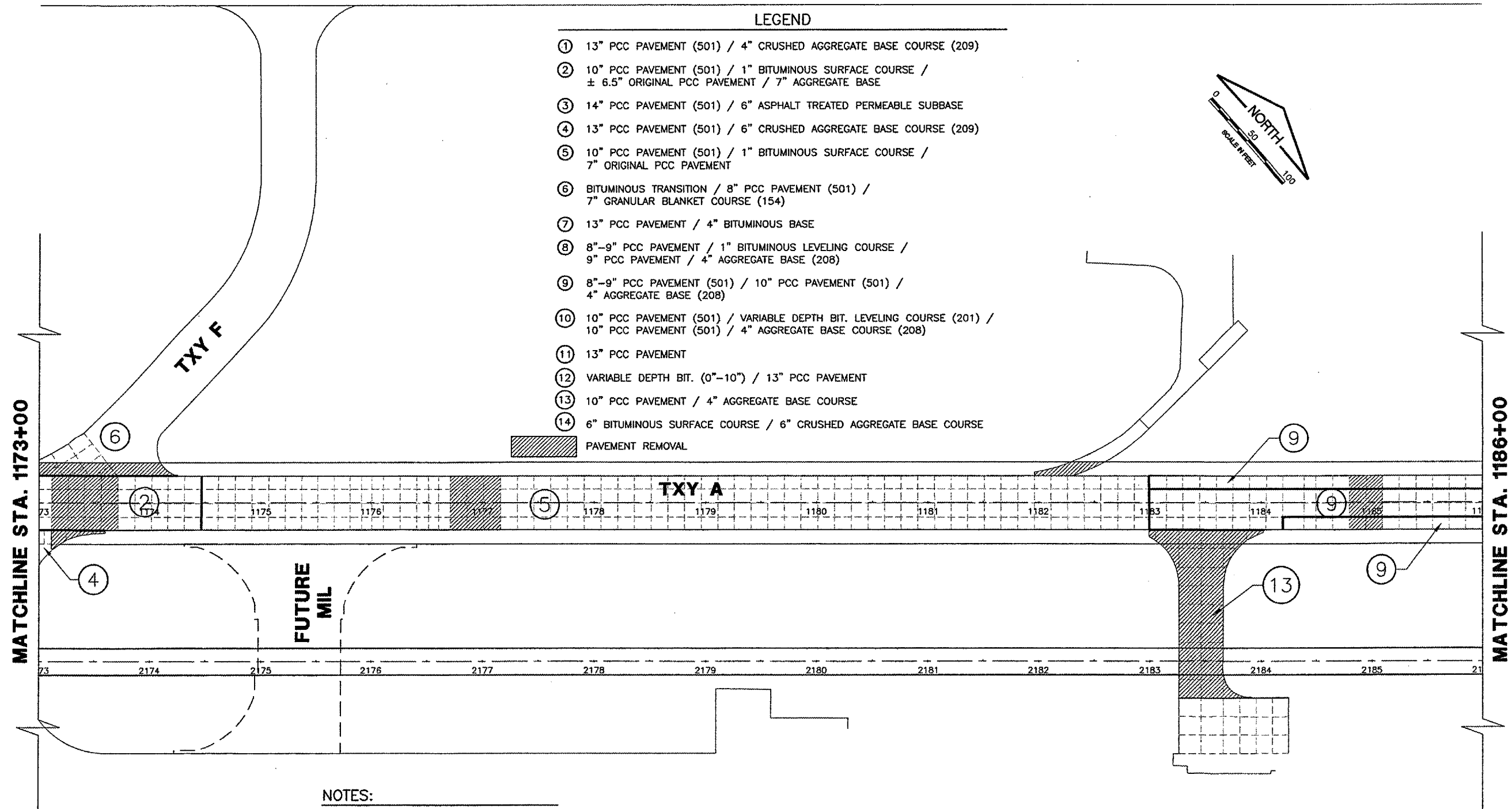
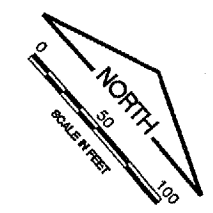
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 tbinfo  
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**LEGEND**

- ① 13" PCC PAVEMENT (501) / 4" CRUSHED AGGREGATE BASE COURSE (209)
  - ② 10" PCC PAVEMENT (501) / 1" BITUMINOUS SURFACE COURSE / ± 6.5" ORIGINAL PCC PAVEMENT / 7" AGGREGATE BASE
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  - ⑦ 13" PCC PAVEMENT / 4" BITUMINOUS BASE
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  - ⑪ 13" PCC PAVEMENT
  - ⑫ VARIABLE DEPTH BIT. (0"-10") / 13" PCC PAVEMENT
  - ⑬ 10" PCC PAVEMENT / 4" AGGREGATE BASE COURSE
  - ⑭ 6" BITUMINOUS SURFACE COURSE / 6" CRUSHED AGGREGATE BASE COURSE
- ▨ PAVEMENT REMOVAL



**NOTES:**

1. THE PAVEMENT STRUCTURES SHOWN ON THIS PAGE HAVE BEEN OBTAINED FROM EXISTING RECORDS.
2. THE RESIDENT ENGINEER SHALL APPROVE REMOVAL LIMITS PRIOR TO THE START OF OPERATIONS.

**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**EXISTING PAVEMENT STRUCTURE 2**

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JOB No:	0503507
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AIP PROJ. NO.	3-17-0096-44
SHEET	09 OF 83 SHEETS

**KEYMAP**

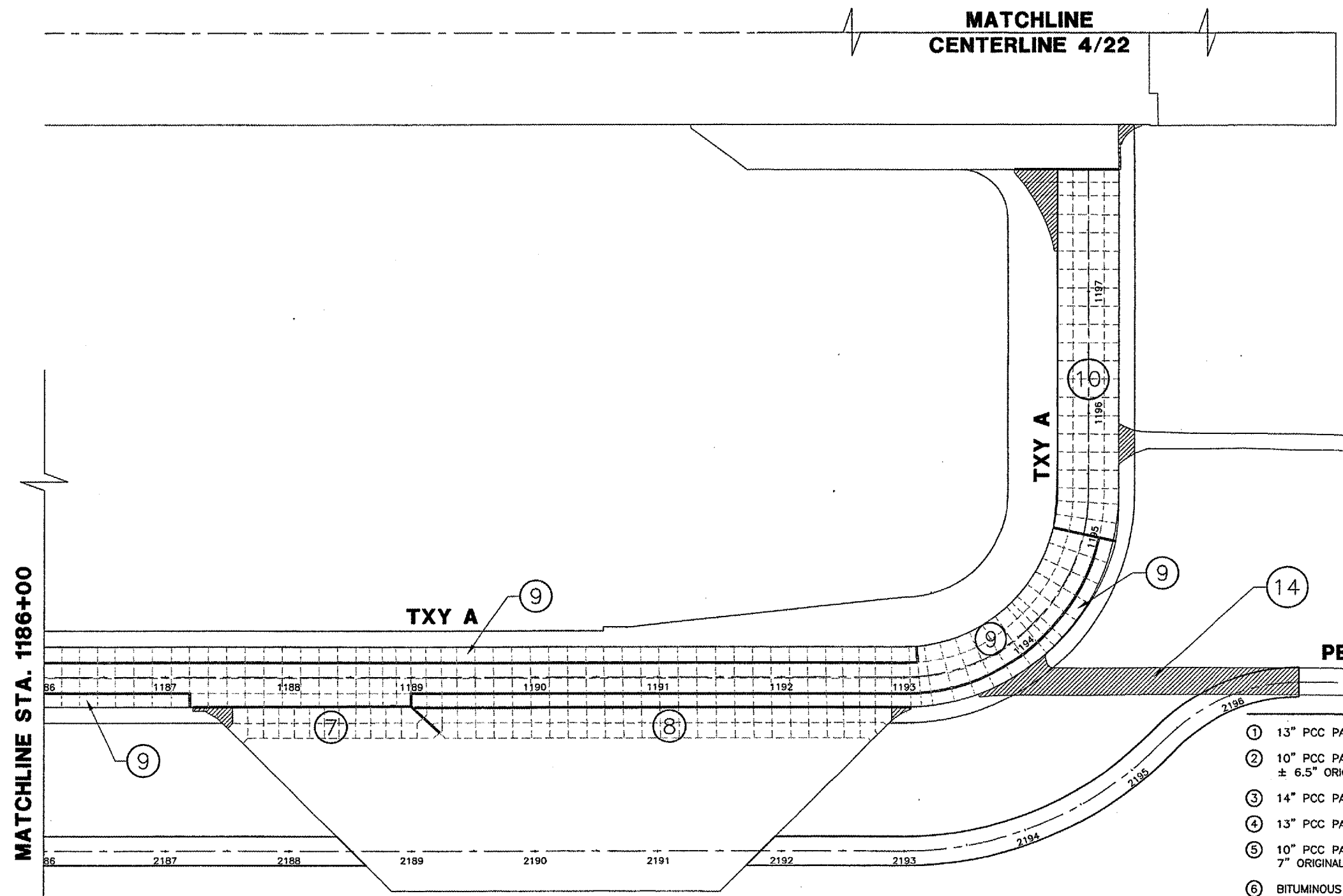
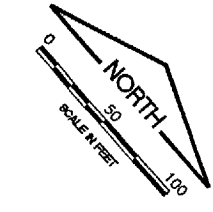
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NUMBER	BY	DATE

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 AT FULL SCALE (34X22).



MATCHLINE STA. 1186+00

MATCHLINE  
 CENTERLINE 4/22

PERIMETER RD.

LEGEND

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- ⑦ 13" PCC PAVEMENT / 4" BITUMINOUS BASE
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- ⑨ 8"-9" PCC PAVEMENT (501) / 10" PCC PAVEMENT (501) / 4" AGGREGATE BASE (208)
- ⑩ 10" PCC PAVEMENT (501) / VARIABLE DEPTH BIT. LEVELING COURSE (201) / 10" PCC PAVEMENT (501) / 4" AGGREGATE BASE COURSE (208)
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- ⑭ 6" BITUMINOUS SURFACE COURSE / 6" CRUSHED AGGREGATE BASE COURSE

PAVEMENT REMOVAL

**NOTES:**

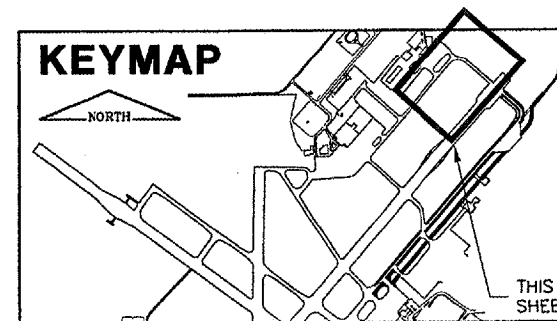
1. THE PAVEMENT STRUCTURES SHOWN ON THIS PAGE HAVE BEEN OBTAINED FROM EXISTING RECORDS.
2. THE RESIDENT ENGINEER SHALL APPROVE REMOVAL LIMITS PRIOR TO THE START OF OPERATIONS.

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 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 EXISTING PAVEMENT STRUCTURE 3

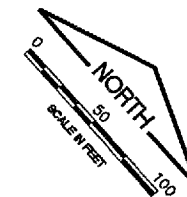
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SHEET 10 OF 83 SHEETS	



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 THIS BAR IS EQUAL TO 2"  
 AT FULL SCALE (34X22).



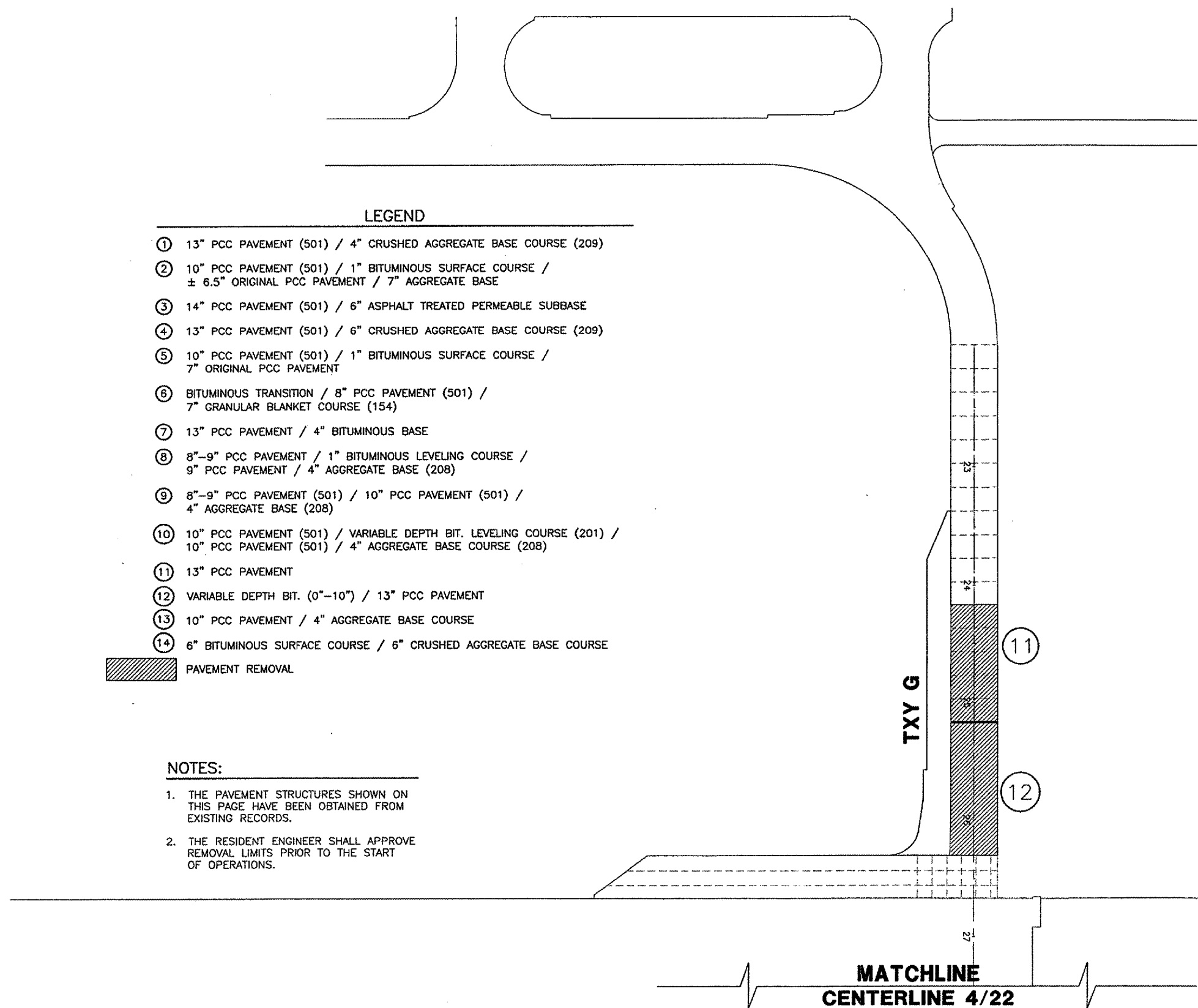
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PAVEMENT REMOVAL

NOTES:

1. THE PAVEMENT STRUCTURES SHOWN ON THIS PAGE HAVE BEEN OBTAINED FROM EXISTING RECORDS.
2. THE RESIDENT ENGINEER SHALL APPROVE REMOVAL LIMITS PRIOR TO THE START OF OPERATIONS.



SPRINGFIELD AIRPORT AUTHORITY  
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 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 EXISTING PAVEMENT STRUCTURE 4

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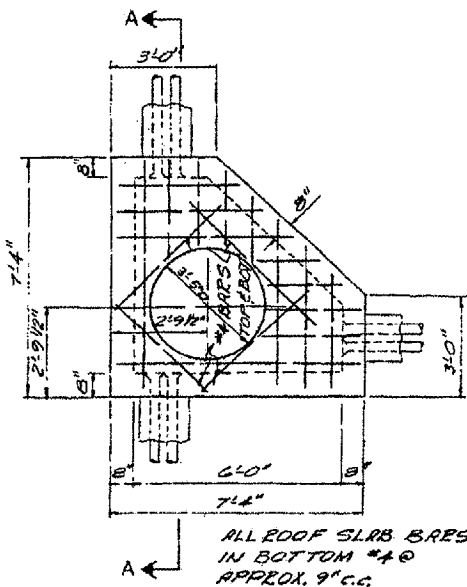
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DATE:	1/23/06
JOB No:	0503507
IL PROJ. NO.	5PI--3555
AIP PROJ. NO.	3--17--0096--44
SHEET	11 OF 83 SHEETS

THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER, THE DIVISION, NOR THE PROJECT 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.

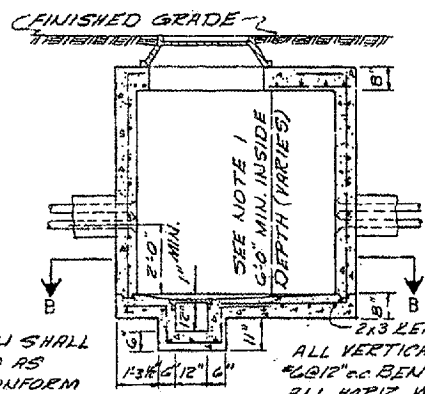
IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OF HIS OPERATIONAL PLANS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR DETAILED INFORMATION AND ASSISTANCE IN LOCATING UTILITIES. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY, THE OWNER, AND THE RESIDENT ENGINEER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.

**EXISTING CONDITION & REMOVAL NOTES**

- EXISTING EDGE LIGHT CABLING IS SHOWN DISTORTED TO IMPROVE CLARITY.
- REMOVAL OF SPLICE CANS WHICH ARE PART OF SIGN BASES SHALL BE INCIDENTAL TO SIGN BASE REMOVAL.



PLAN



SECTION A-A

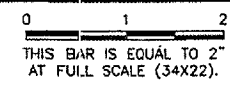
NOTE 1:  
 THIS DIMENSION SHALL BE INCREASED AS REQUIRED TO CONFORM TO THE MAX. COVER AND THE QUALITY OF DUCTS IN THE BANKS ENTERING THE MANHOLE.

**ELECTRICAL MANHOLE TYPE "F"**  
**EXISTING ELECTRICAL MANHOLE REMOVAL**  
 N.T.S.

**LEGEND**

	EXISTING PAVEMENT
	NEW PAVEMENT
	EXIST. ELECTRICAL CABLE
	EXIST. FIBER-OPTIC CABLE
	EXIST. STORM SEWER
	EXIST. UNDERDRAIN
	EXIST. FENCE
	EXIST. PAVEMENT MARKING
	EXIST. JOINT
	NEW REMOVAL
	NEW RELOCATION
	NEW ADJUSTMENT
	EXIST. BASE MOUNTED TAXIWAY LIGHT
	EXIST. STAKE MOUNTED TXY LIGHT
	EXIST. FLUSH MOUNTED RUNWAY LIGHT
	EXIST. BASE MOUNTED RUNWAY LIGHT
	EXIST. BASE MOUNTED MALSR THRESHOLD LIGHT
	EXIST. THRESHOLD LIGHT
	EXIST. AIRFIELD SIGN
	EXIST. FIBER-OPTIC SPLICE, DIRECT BURY
	EXIST. SPLICE CAN
	EXIST. OVERHEAD LIGHT
	EXIST. HANDHOLE
	EXIST. DUCT MARKER
	EXIST. COLLECTION STRUCTURE
	EXIST. CLEANOUT
	EXIST. INLET
	EXIST. MANHOLE
	EXIST. WINDSOCK
	EXIST. SOIL BORING
	EXIST. SIGN
	EXIST. PAVEMENT - TO BE REMOVED

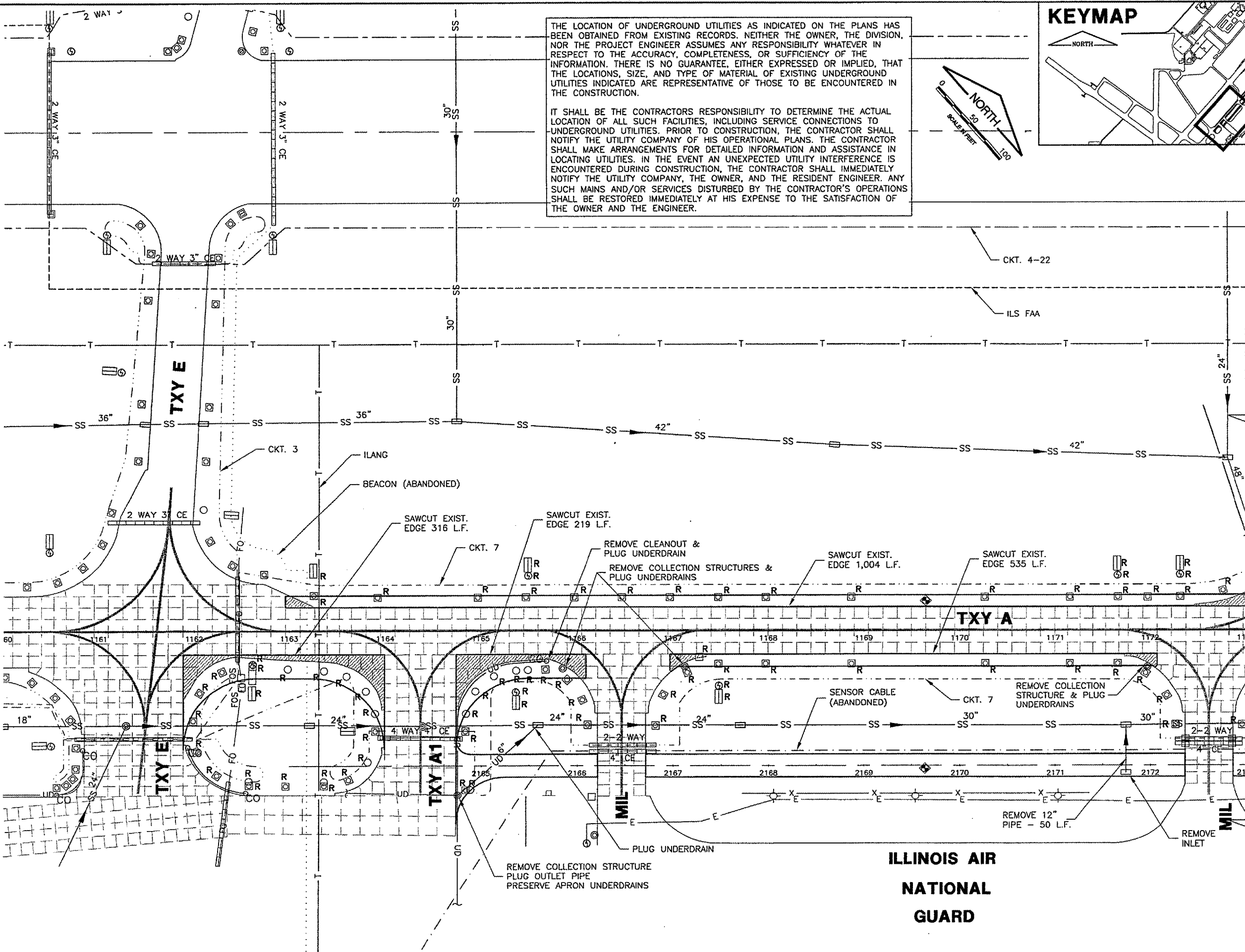
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NUMBER	BY	DATE



SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS  
 WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 EXISTING CONDITIONS & REMOVALS  
 LEGEND & NOTES

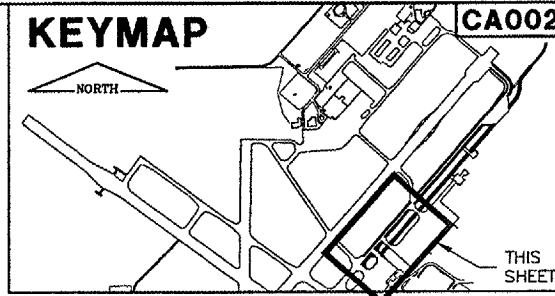
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AIP PROJ. NO. 3-17-0096-44	
SHEET 12 OF 83 SHEETS	



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**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**EXISTING CONDITIONS & REMOVALS 1**

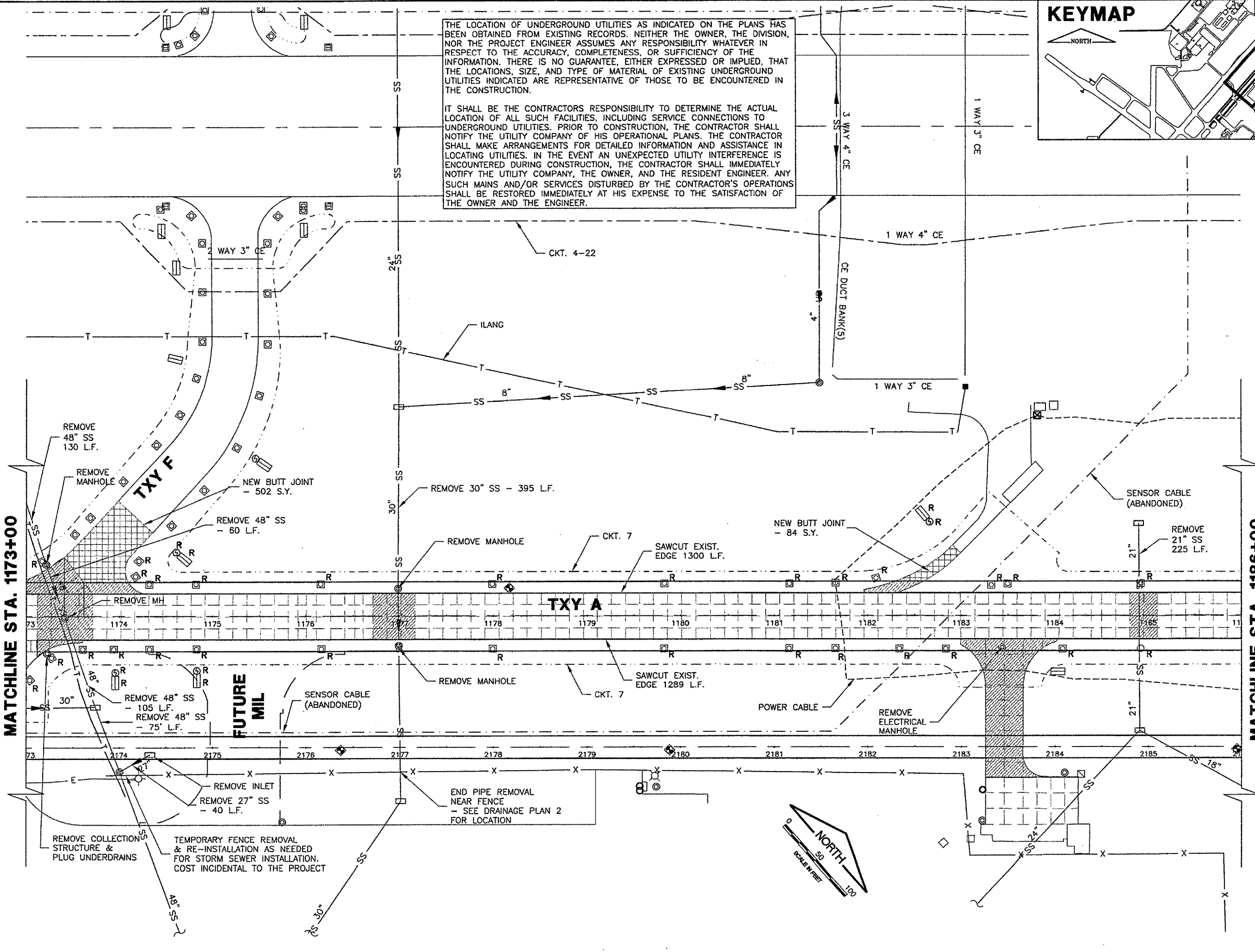
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 SHEET 13 OF 83 SHEETS

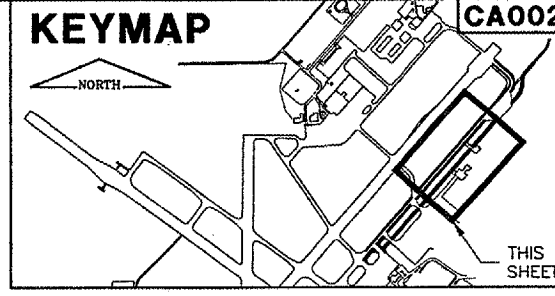
**ILLINOIS AIR  
 NATIONAL  
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MATCHLINE STA. 1173+00



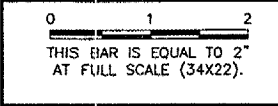
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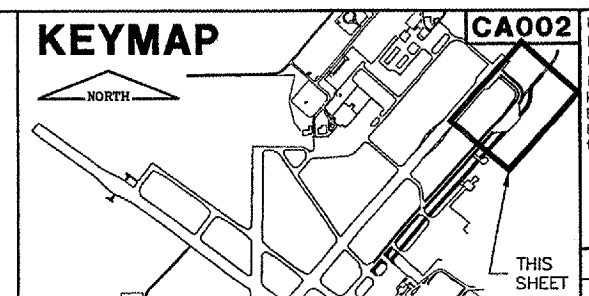


  
**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**EXISTING CONDITIONS & REMOVALS 2**

  
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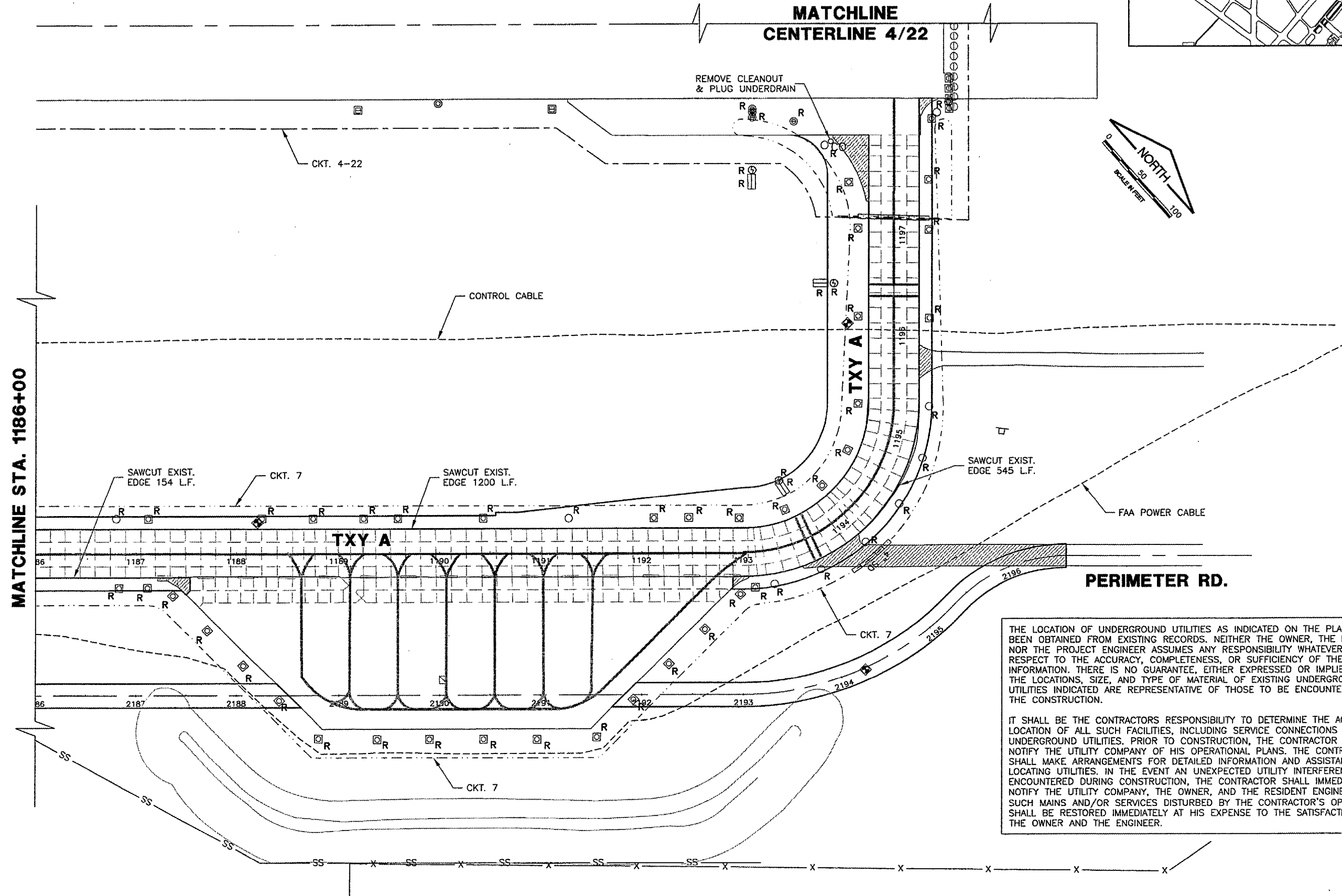
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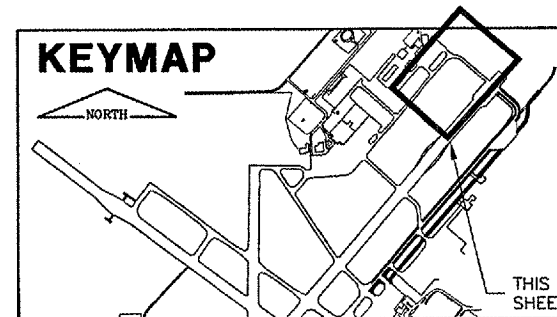
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**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

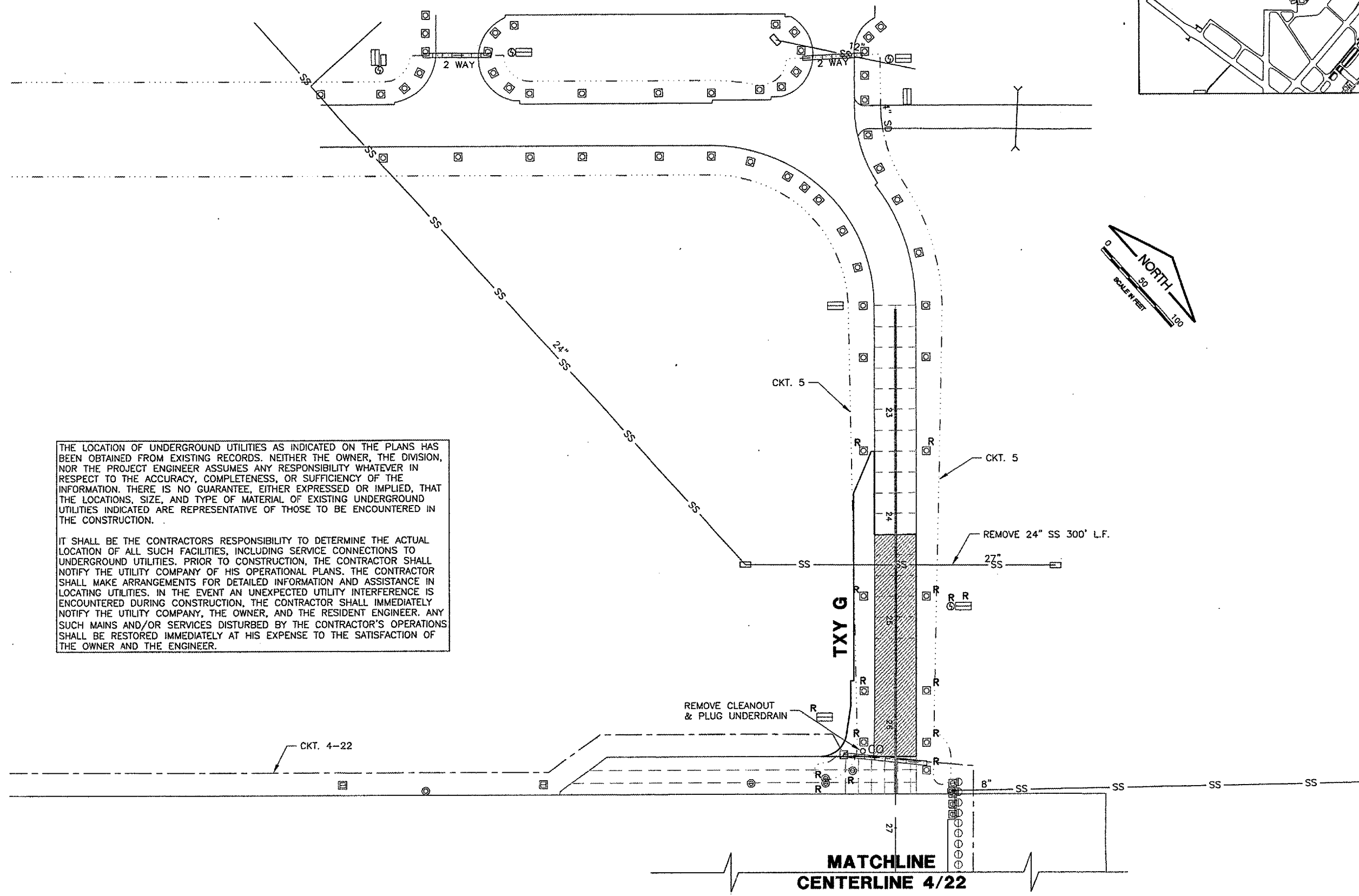
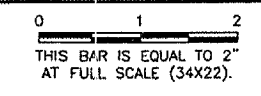
**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**EXISTING CONDITIONS & REMOVALS 3**

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 SHEET 15 OF 83 SHEETS

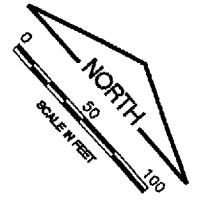



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**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**EXISTING CONDITIONS & REMOVALS 4**



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SHEET	16 OF 83 SHEETS



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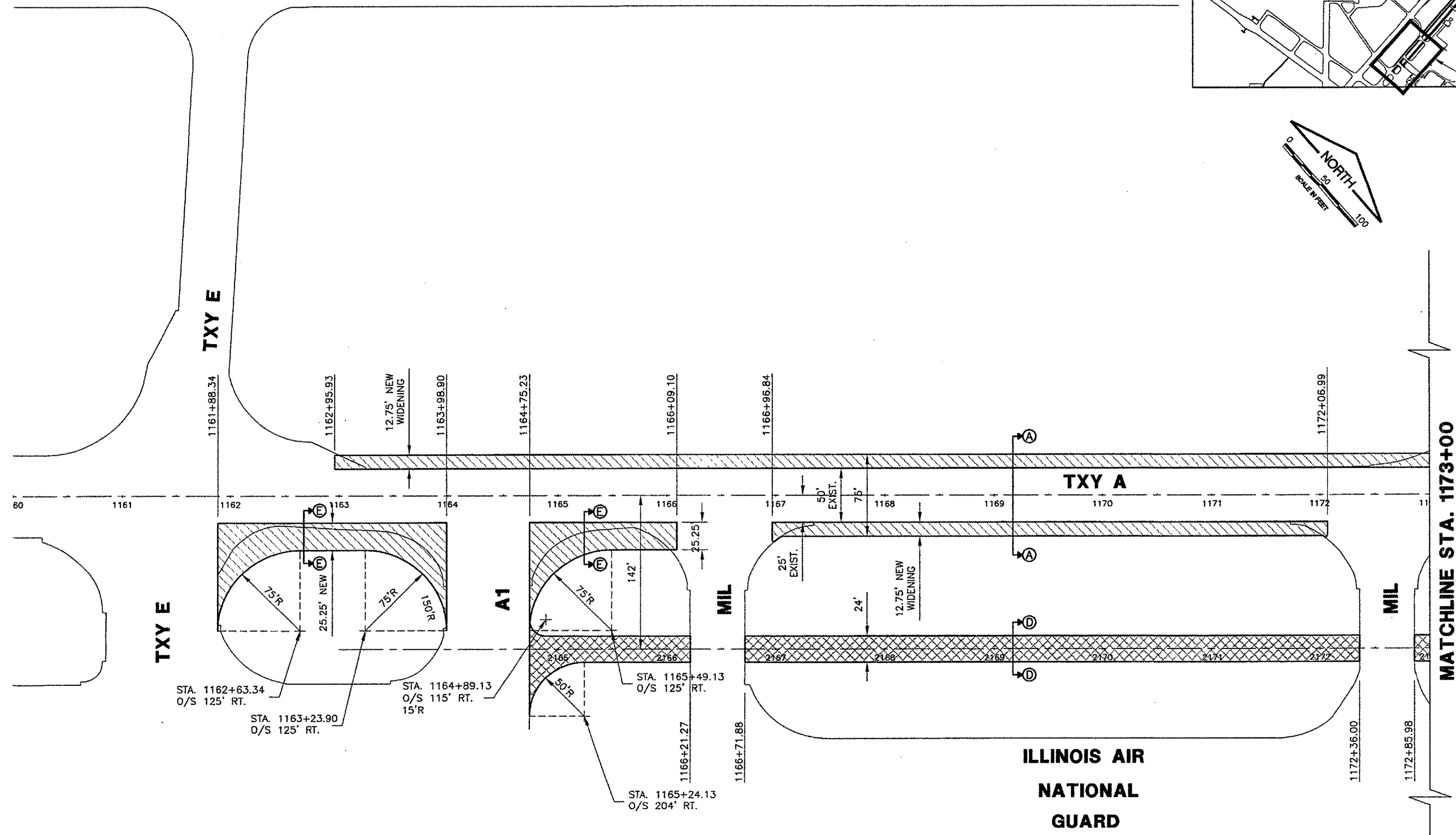
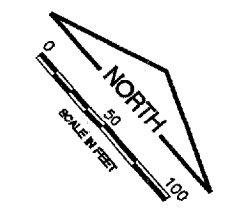
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**ILLINOIS AIR NATIONAL GUARD**

**MATCHLINE STA. 1173+00**

**LEGEND**

- NEW 13" PCC PAVEMENT (501)  
4" CRUSHED AGGREGATE BASE COURSE (209)
- NEW 1-1/2" BITUMINOUS SURFACE COURSE (401)  
2-1/2" BITUMINOUS BASE COURSE (201)  
6" CRUSHED AGGREGATE BASE COURSE (209)
- NEW 1-1/2" BITUMINOUS TRANSITION (401)

**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**PROPOSED IMPROVEMENTS 1**

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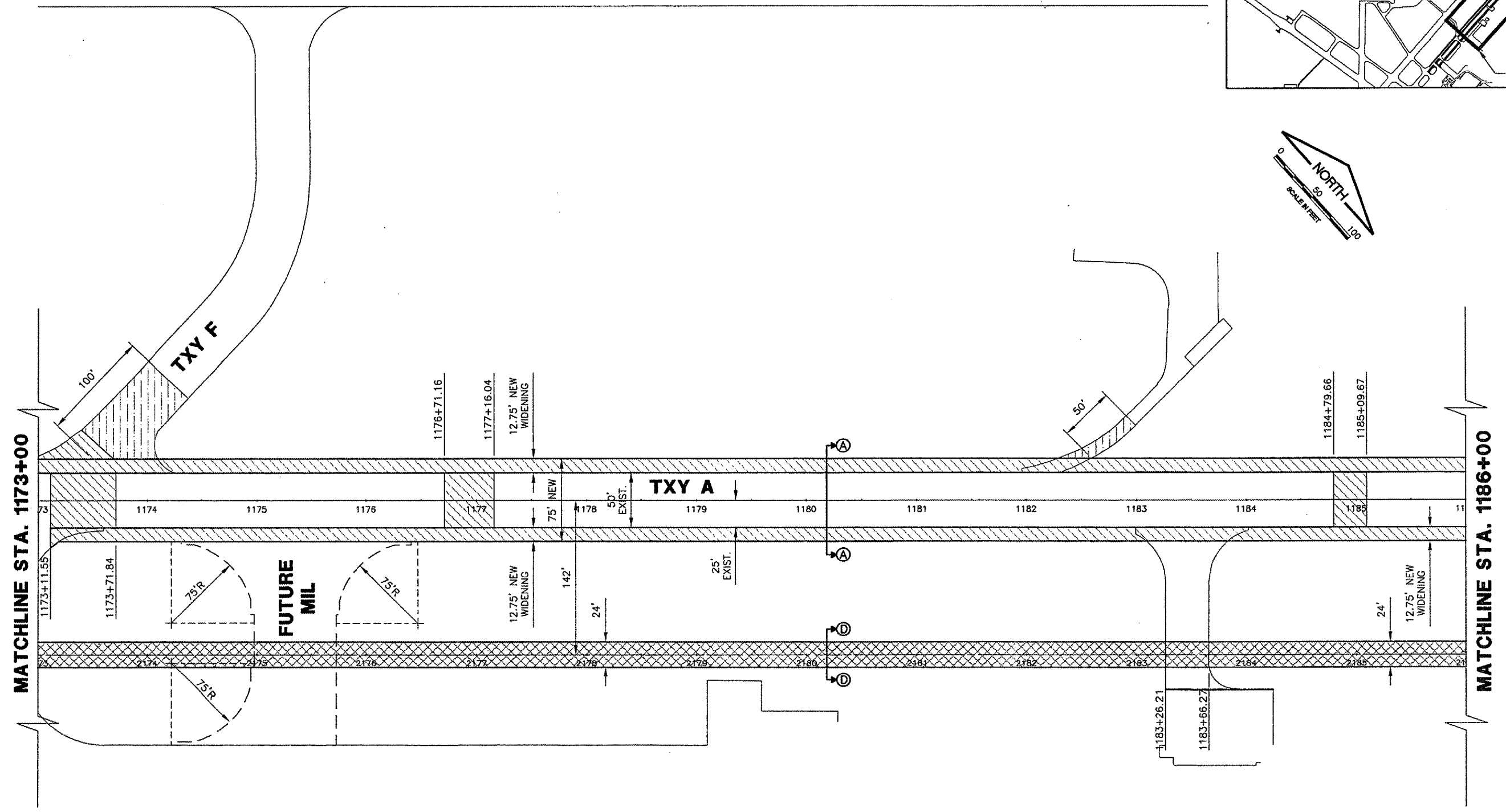
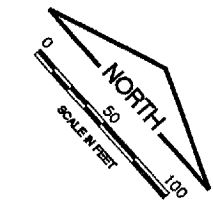
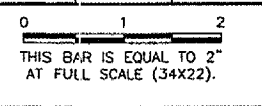
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MATCHLINE STA. 1173+00

MATCHLINE STA. 1186+00

- LEGEND**
- NEW 13" PCC PAVEMENT (501)  
4" CRUSHED AGGREGATE BASE COURSE (209)
  - NEW 1-1/2" BITUMINOUS SURFACE COURSE (401)  
2-1/2" BITUMINOUS BASE COURSE (201)  
6" CRUSHED AGGREGATE BASE COURSE (209)
  - NEW 1-1/2" BITUMINOUS TRANSITION (401)
  - FUTURE PAVEMENT

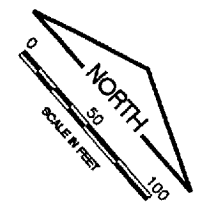
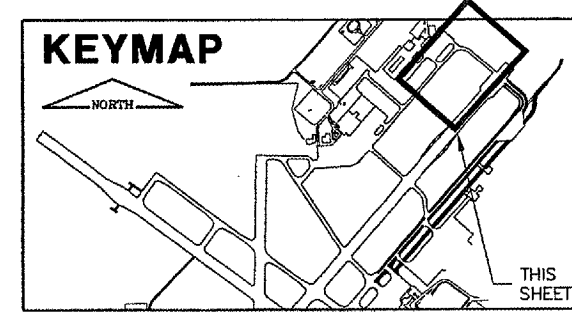
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**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**PROPOSED IMPROVEMENTS 2**

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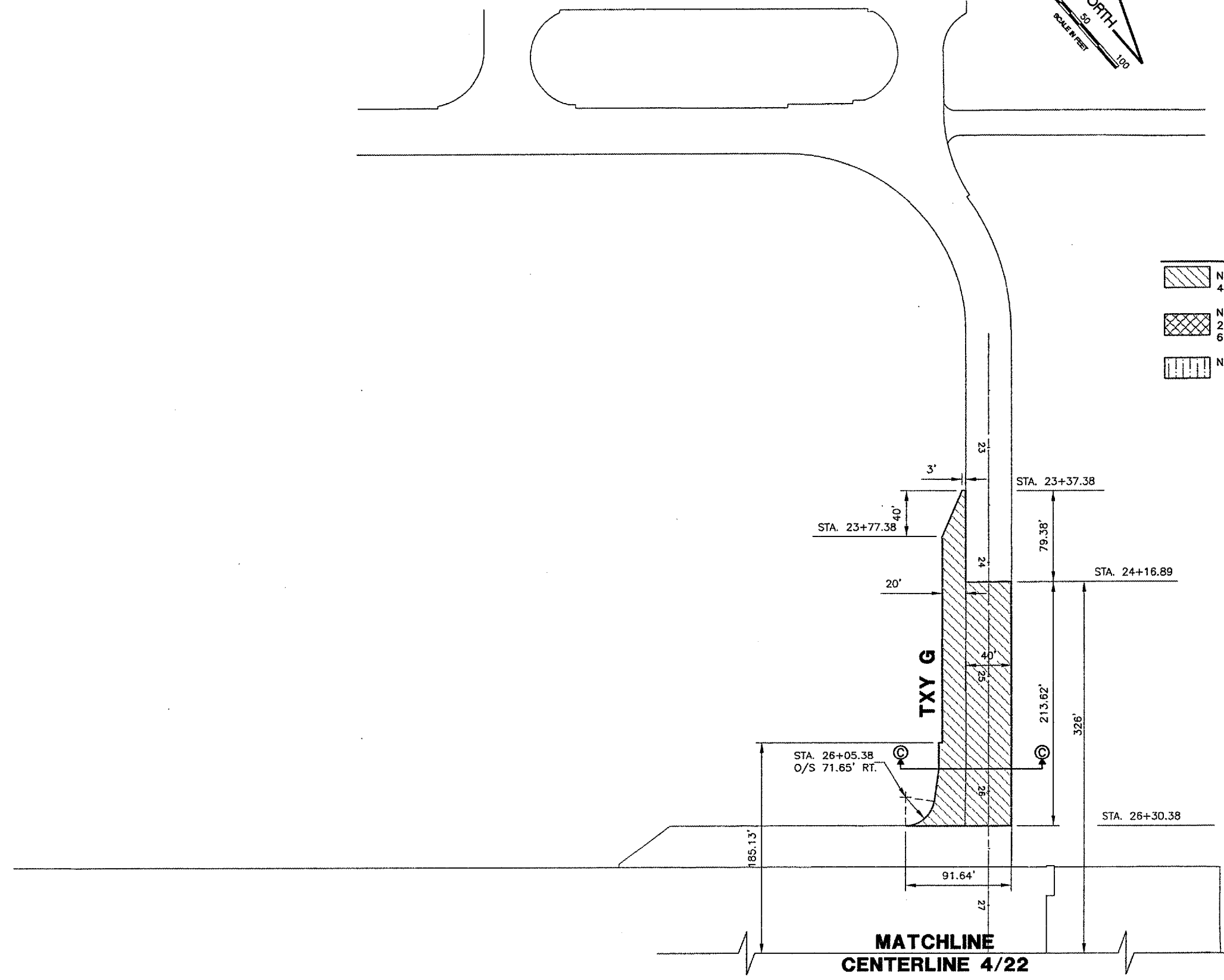




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- LEGEND**
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4" CRUSHED AGGREGATE BASE COURSE (209)
  - NEW 1-1/2" BITUMINOUS SURFACE COURSE (401)  
2-1/2" BITUMINOUS BASE COURSE (201)  
6" CRUSHED AGGREGATE BASE COURSE (209)
  - NEW 1-1/2" BITUMINOUS TRANSITION (401)

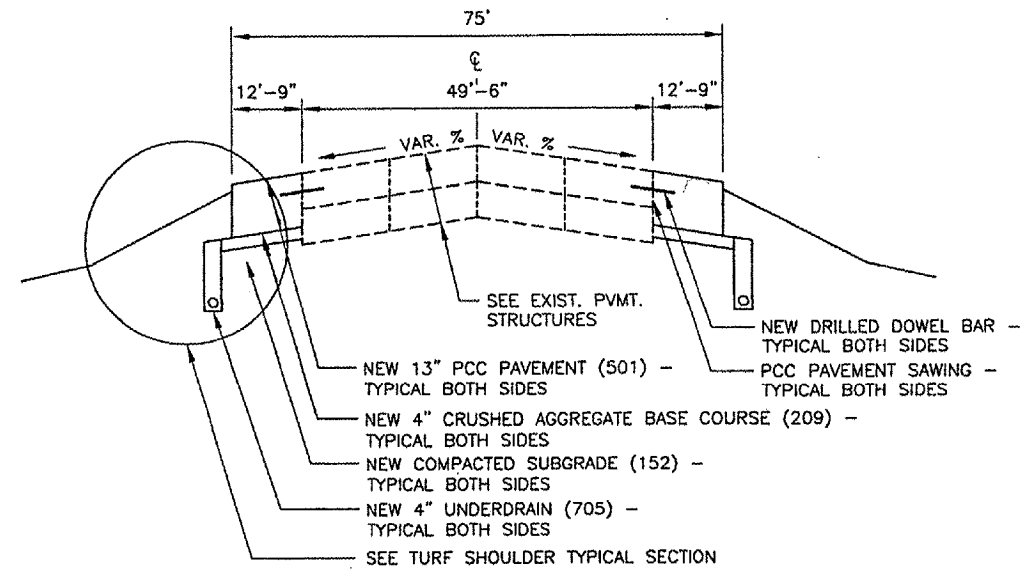


**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

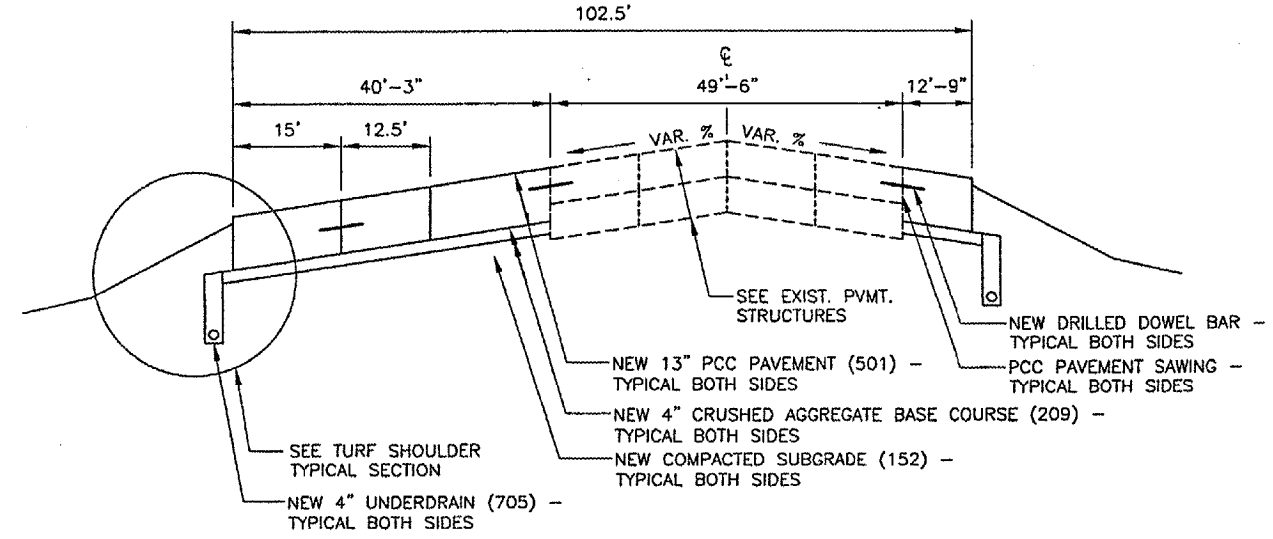
**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**PROPOSED IMPROVEMENTS 4**

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SHEET	20 OF 83 SHEETS

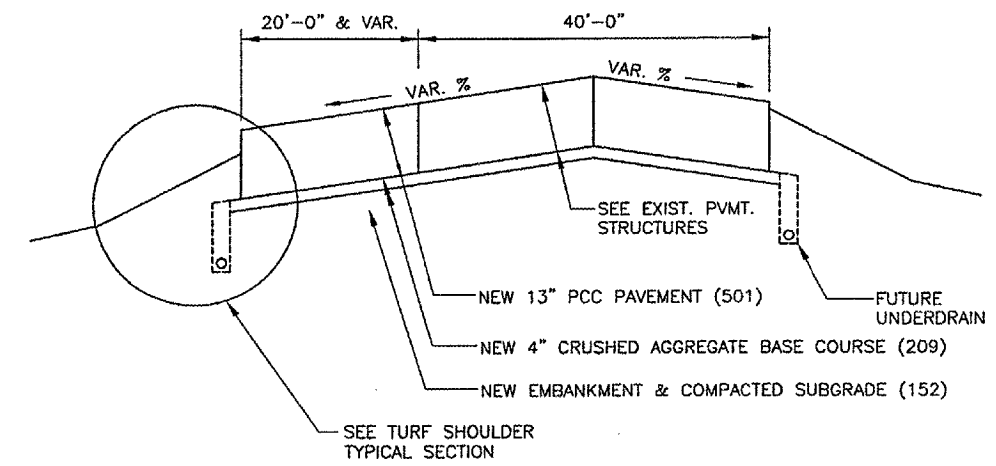


**A** PARALLEL TAXIWAY A WIDENING **A**  
 N.T.S.

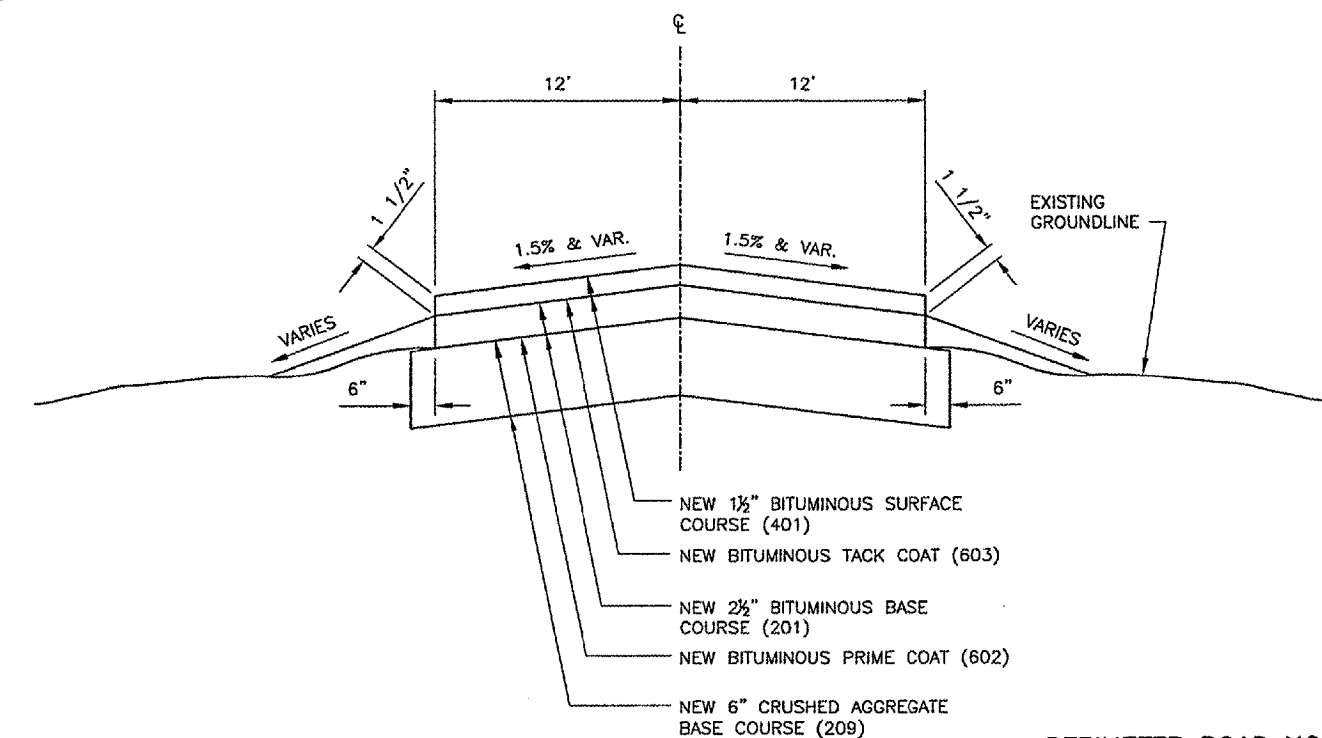


**B** CONNECTING TAXIWAY A WIDENING **B**  
 N.T.S.

- NOTES:**
- SEE "PROPOSED IMPROVEMENTS" SHEETS FOR SECTION LOCATIONS.
  - SEE "JOINTING PLANS" FOR JOINT TYPES & LAYOUTS.



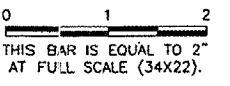
**C** CONNECTING TAXIWAY G REPLACEMENT & WIDENING **C**  
 N.T.S.



**D** NEW PERIMETER ROAD **D**  
 N.T.S.

- PERIMETER ROAD NOTES:**
- NEW PERIMETER ROAD INCLUDES CROWNED & SINGLE SLOPED PAVEMENTS.
  - SEE PERIMETER ROAD CROSS SECTIONS FOR DETAILS.

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SPRINGFIELD AIRPORT AUTHORITY  
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 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 TYPICAL SECTIONS 1

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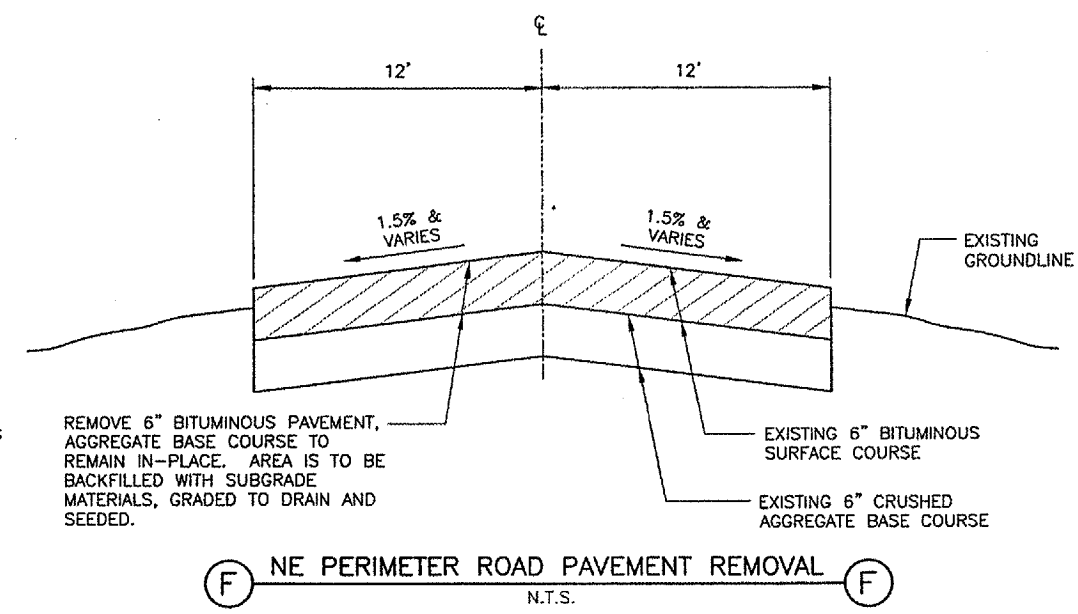
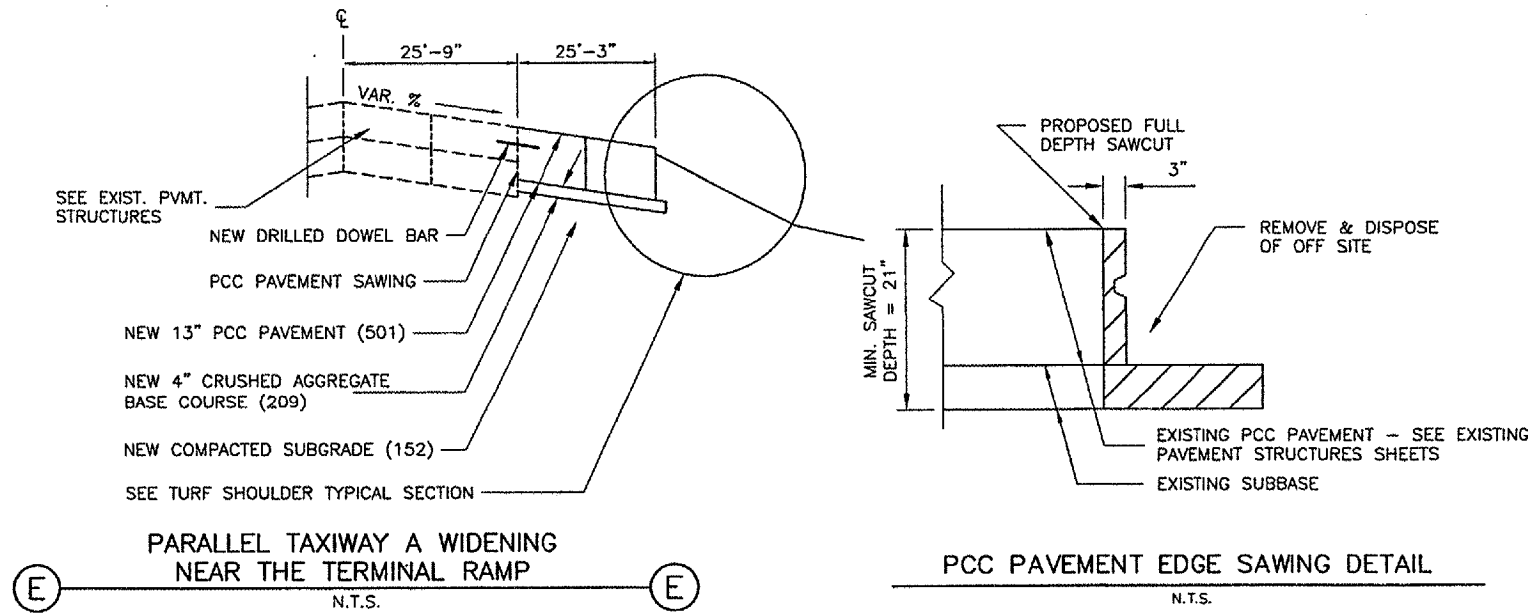
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SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 TYPICAL SECTIONS 2

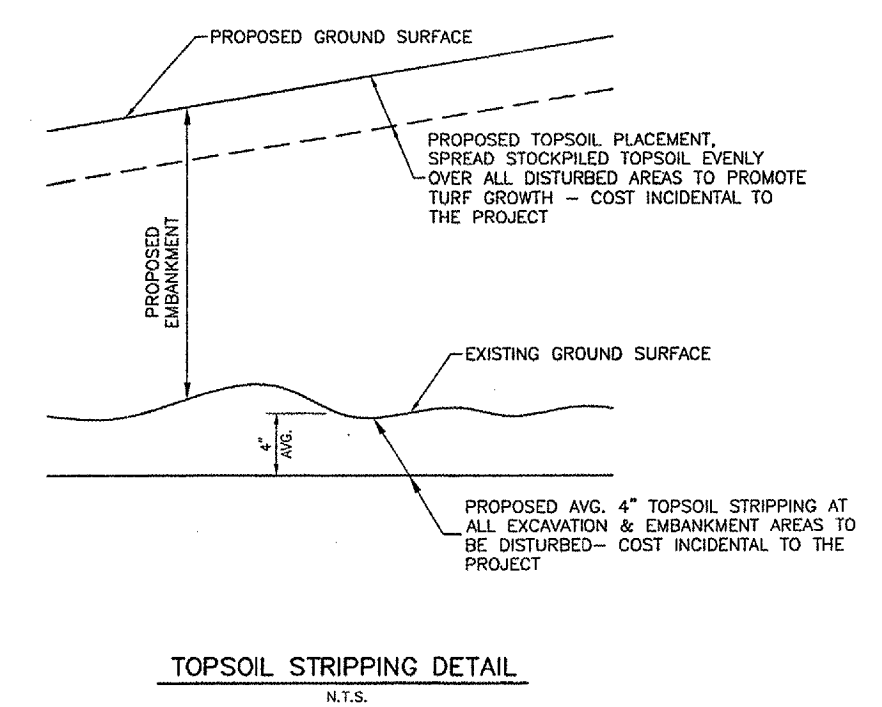
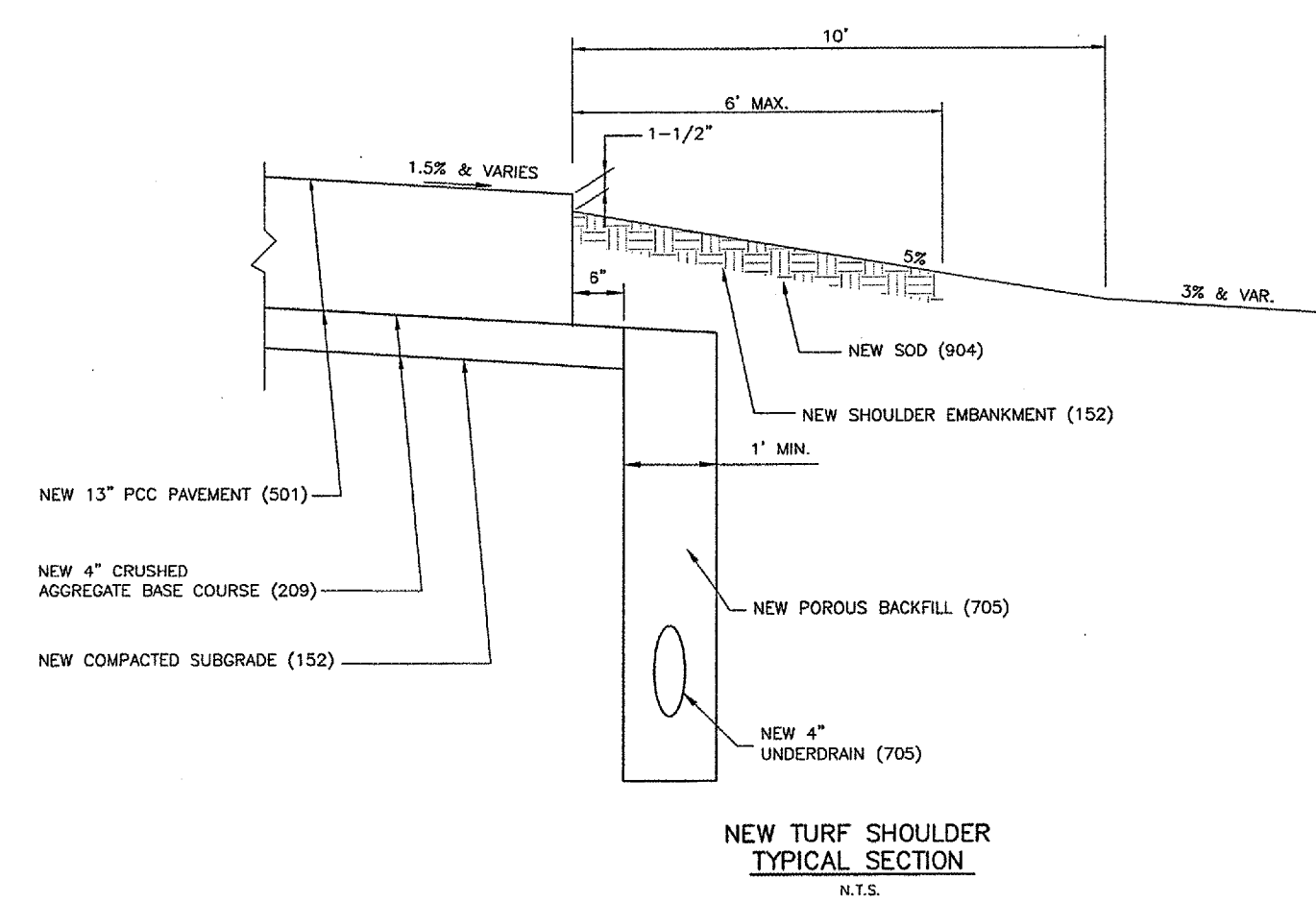
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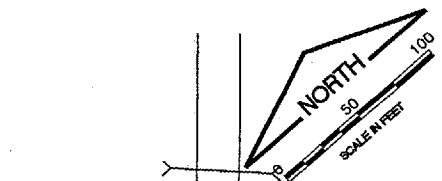
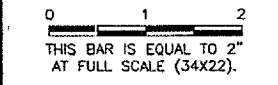


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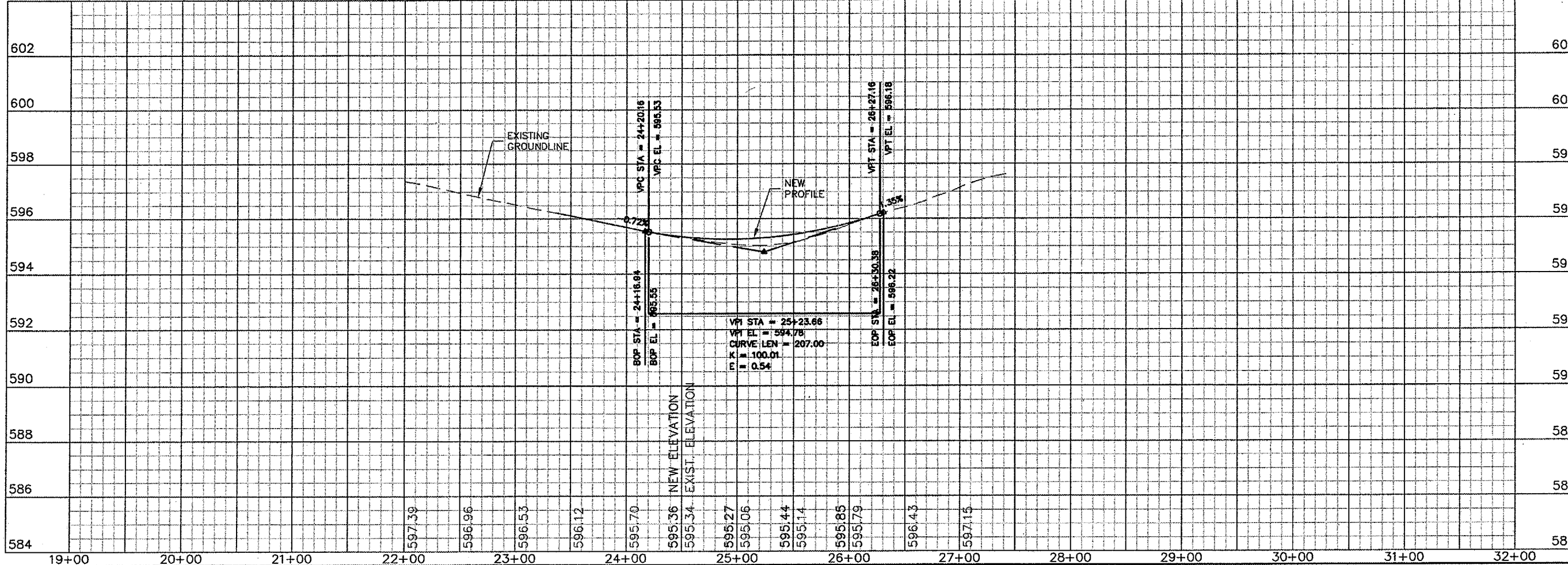
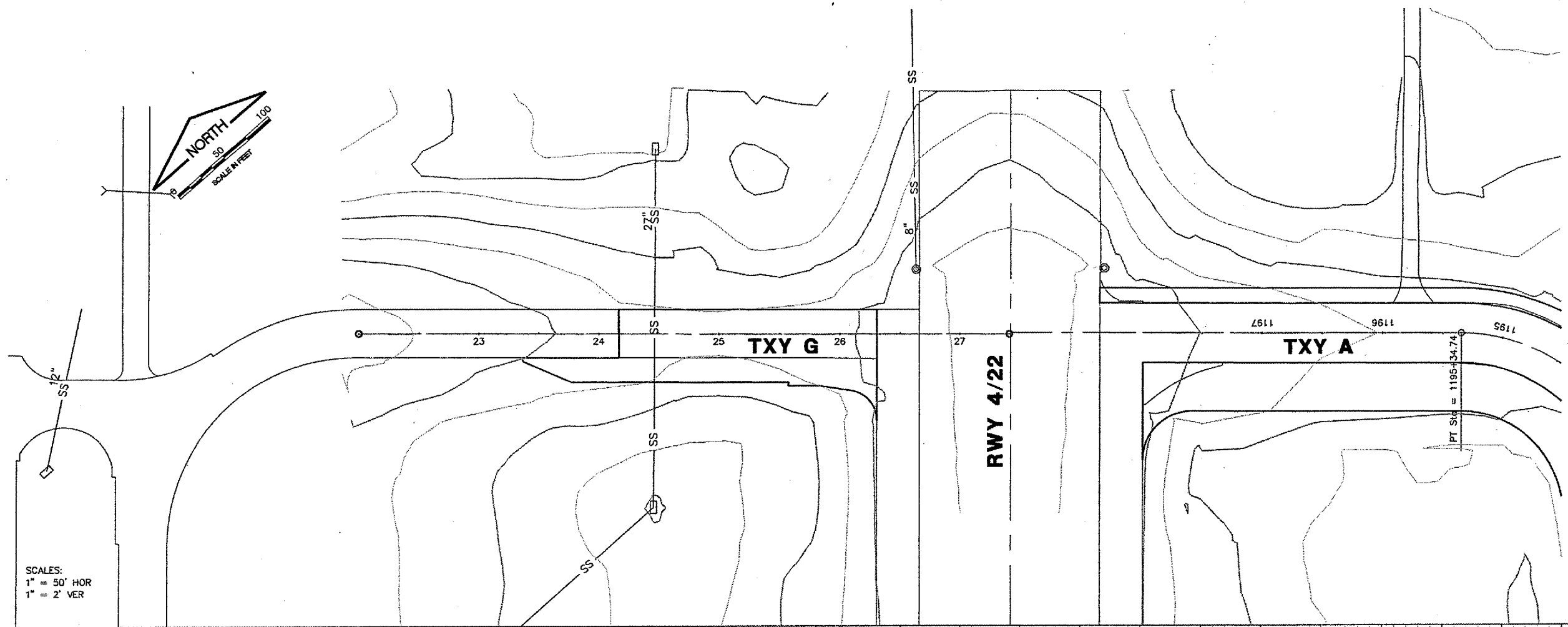
1. SEE "PROPOSED IMPROVEMENTS" SHEETS FOR SECTION LOCATIONS.
2. SEE "JOINTING PLANS" FOR JOINT TYPES & LAYOUTS.



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SCALES:  
 1" = 50' HOR  
 1" = 2' VER



**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**TAXIWAY G PLAN & PROFILE**

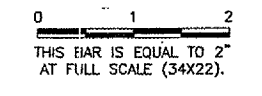
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 SHEET 23 OF 83 SHEETS

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**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

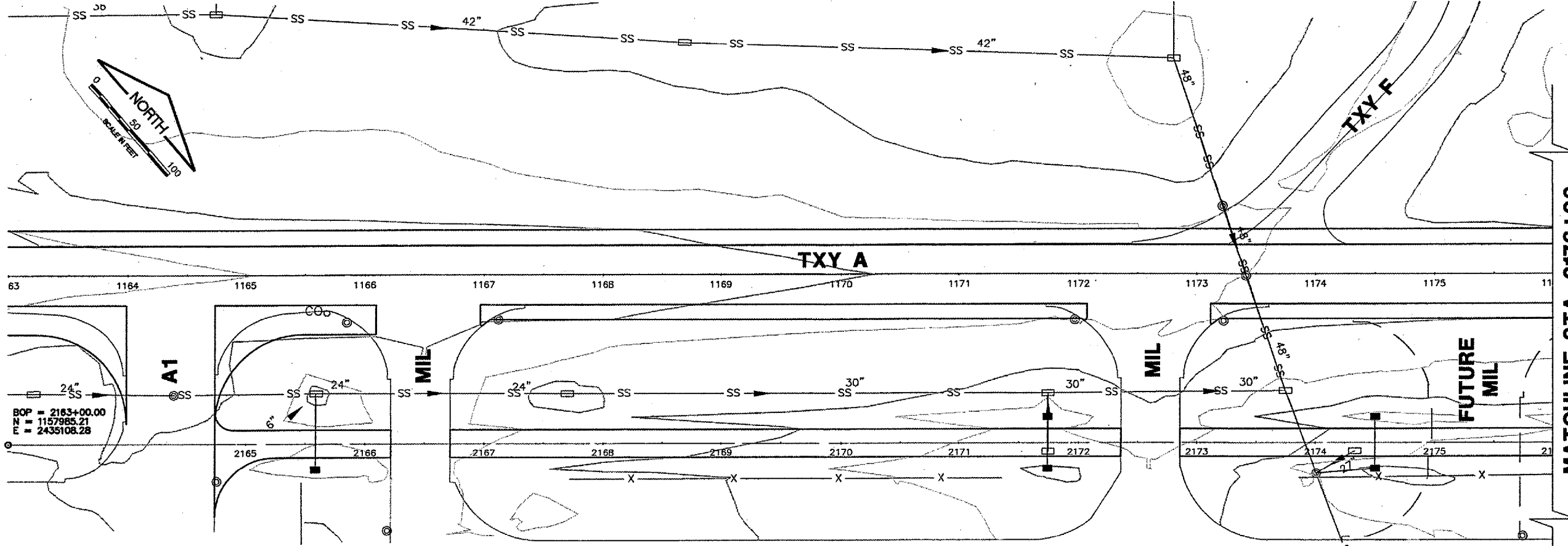
**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**PERIMETER ROAD PLAN & PROFILE 1**

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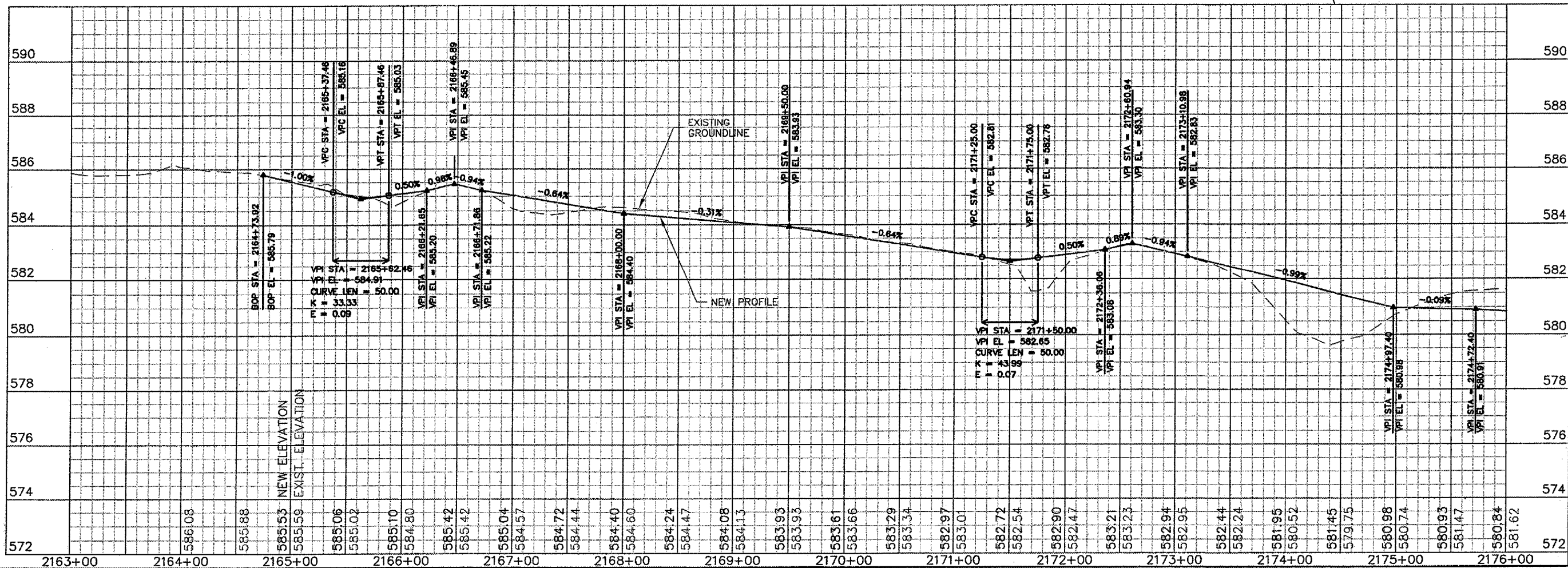
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 APPROVED BY: RW  
 DATE: 1/23/06  
 JOB No: 0503507

IL PROJ. NO. SPI-3555  
 AIP PROJ. NO. J-17-0095-44  
 SHEET 24 OF 83 SHEETS



SCALES:  
 1" = 50' HOR  
 1" = 2' VER



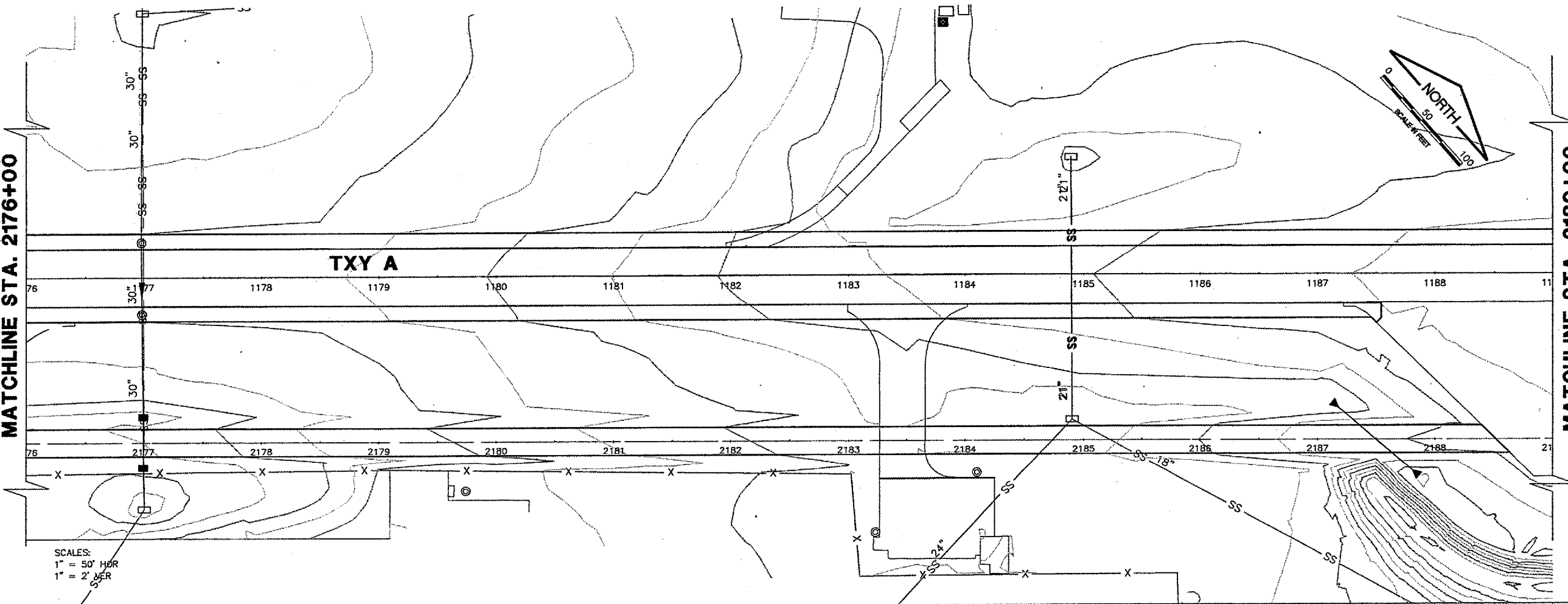


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REVISIONS		
NUMBER	BY	DATE

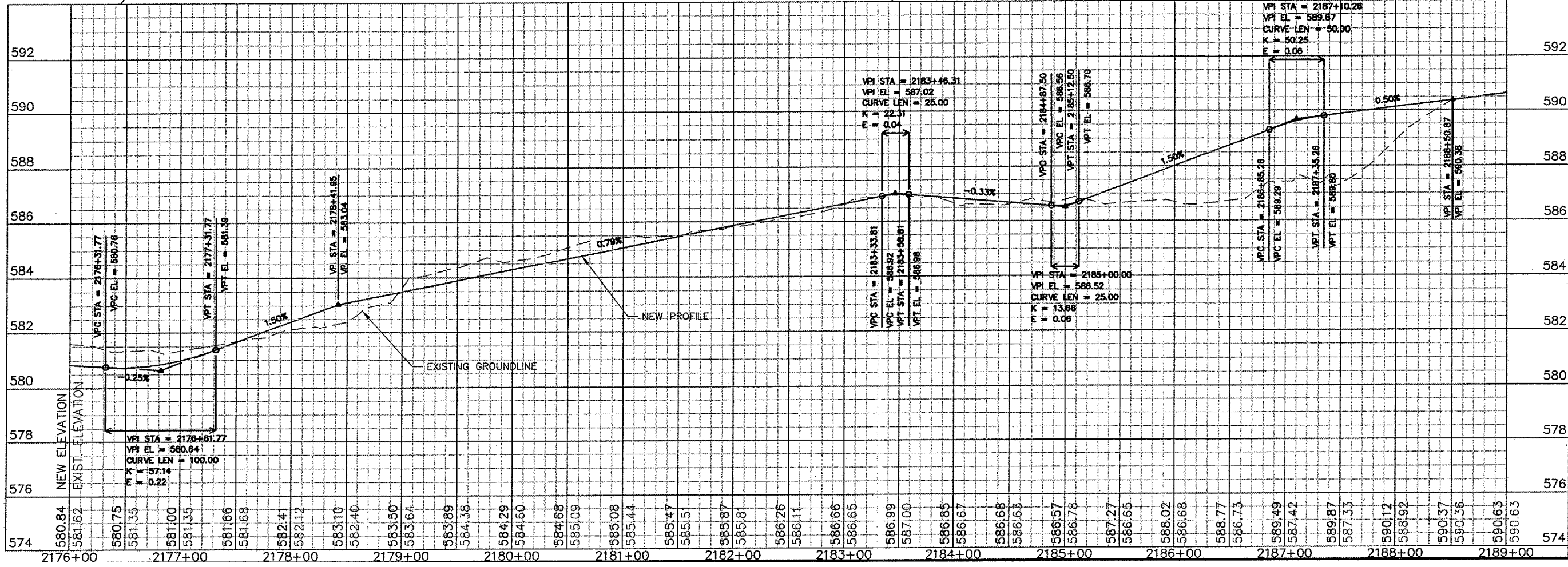
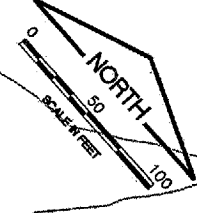
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 AT FULL SCALE (34X22).



MATCHLINE STA. 2176+00

MATCHLINE STA. 2189+00

SCALES:  
 1" = 50' HOR  
 1" = 2' VER



SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 PERIMETER ROAD PLAN & PROFILE 2

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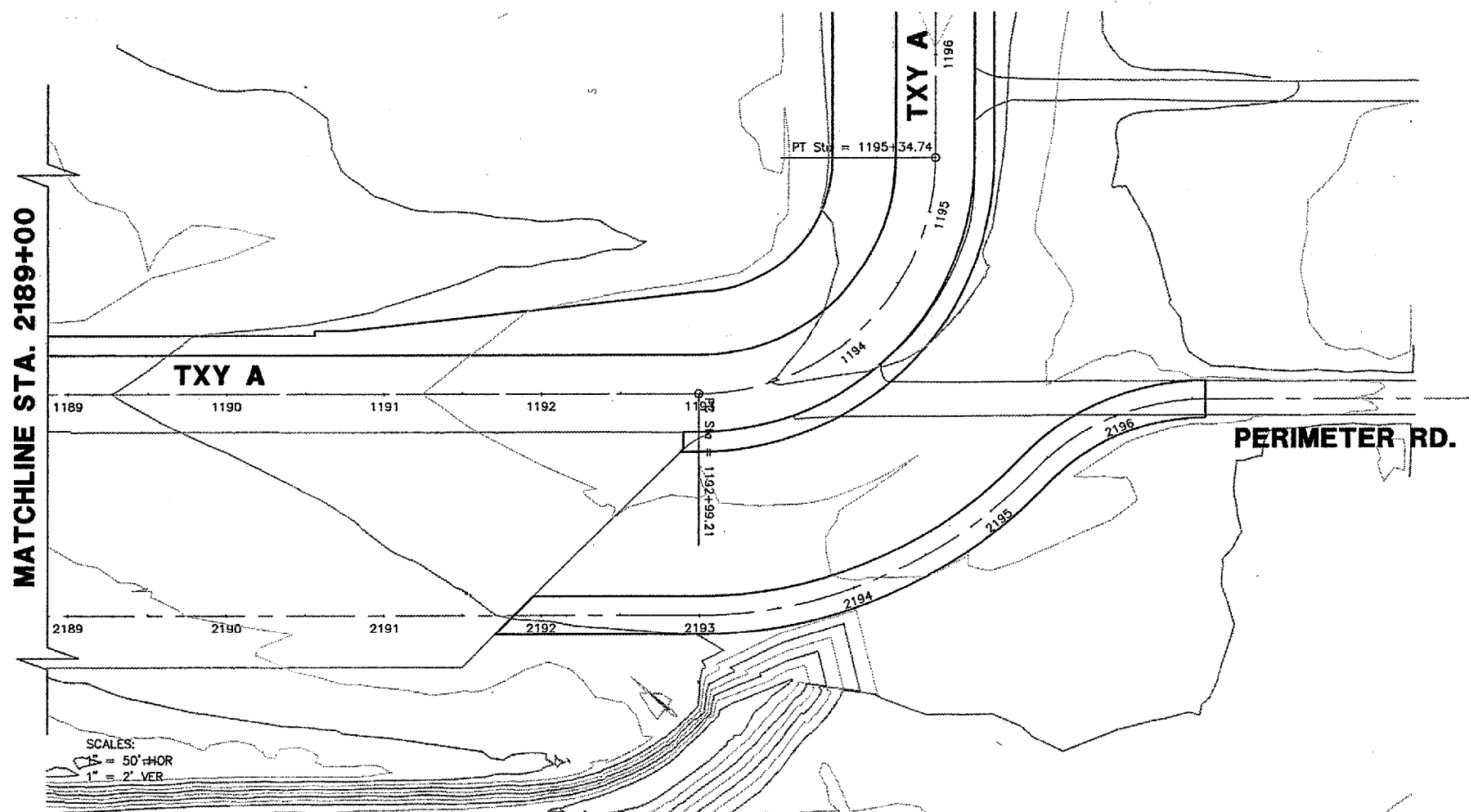
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 DATE: 1/23/06

JOB No: 0503507  
 ILL. PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44  
 SHEET 25 OF 83 SHEETS

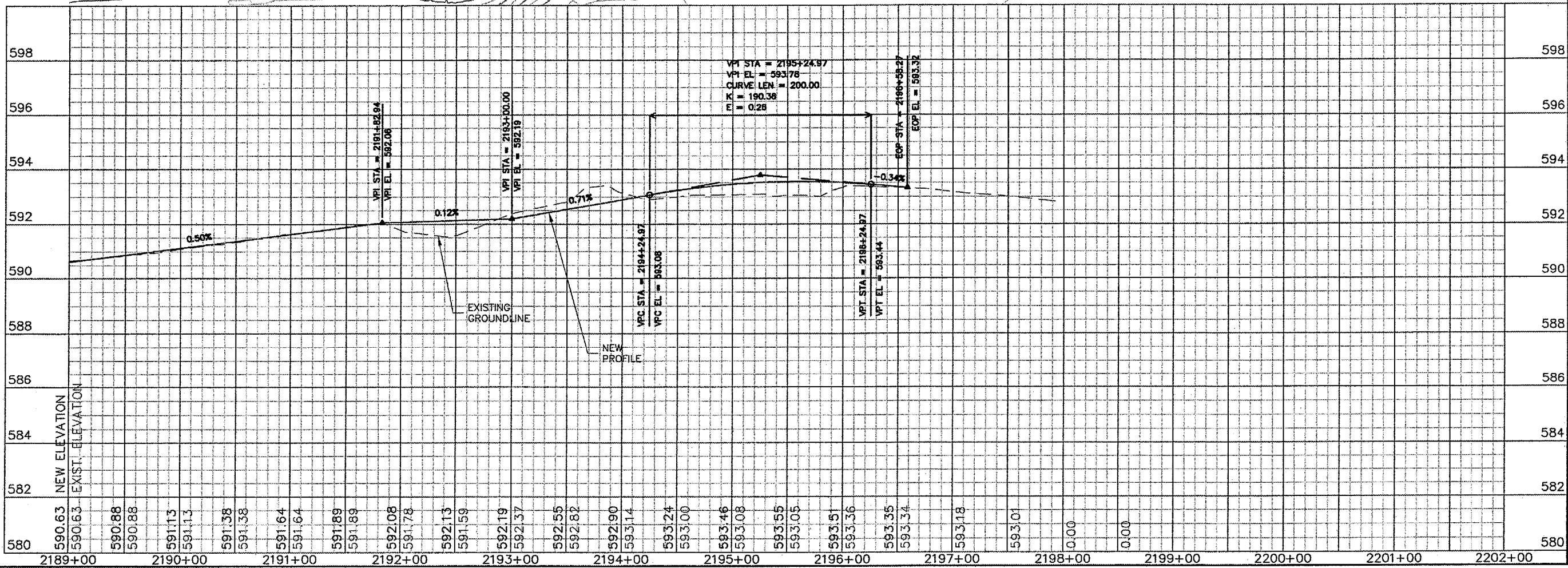
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REVISIONS		
NUMBER	BY	DATE

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 THIS BAR IS EQUAL TO 2"  
 AT FULL SCALE (34X22).



SCALES:  
 1" = 50' HOR  
 1" = 2' VER



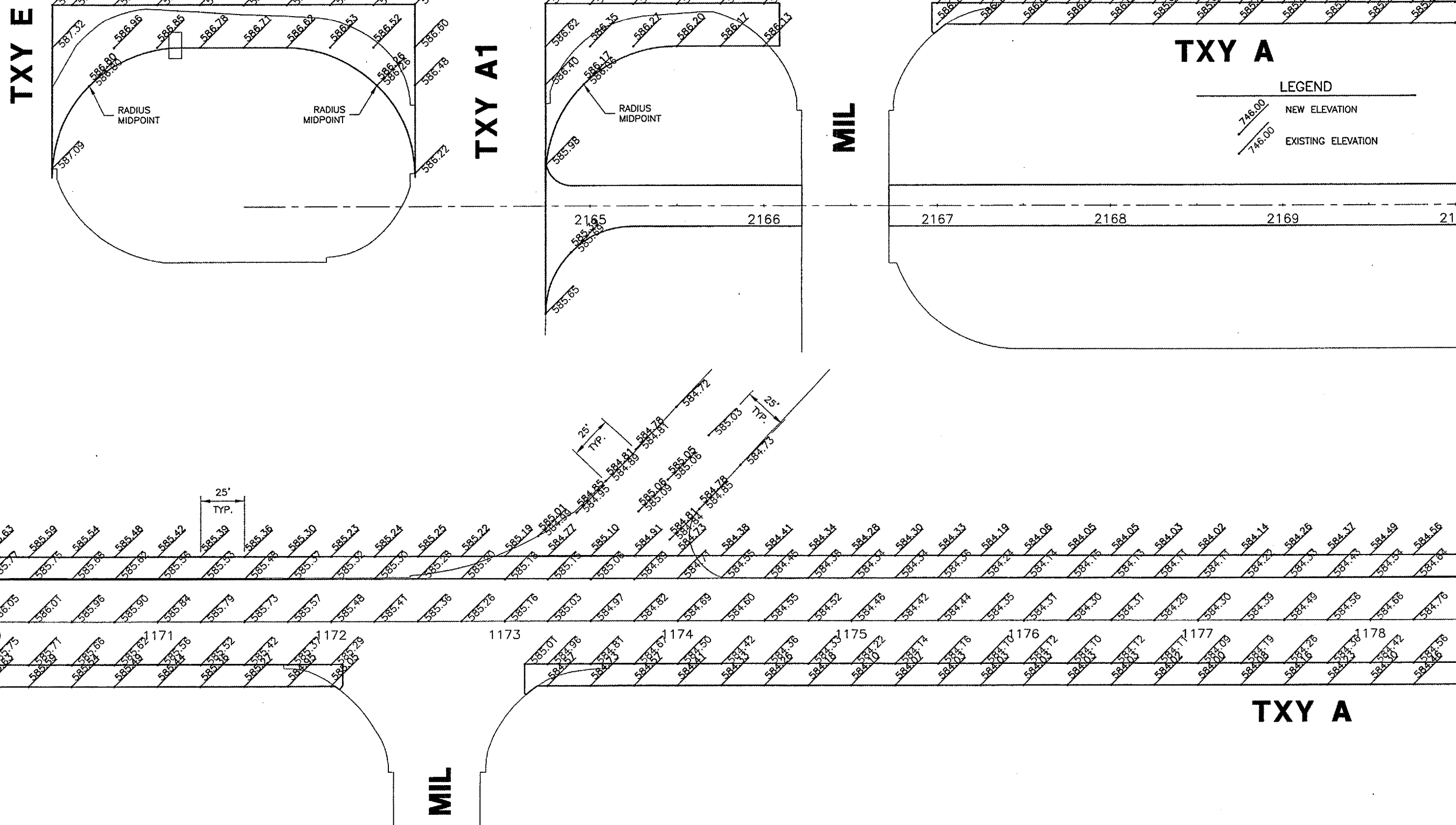
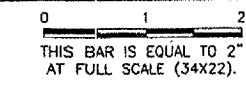
**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**


**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**PERIMETER ROAD PLAN & PROFILE 3**

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 JOB No: 0503507  
 IL. PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44  
 SHEET 26 OF 83 SHEETS

REVISIONS		
NUMBER	BY	DATE



  
**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

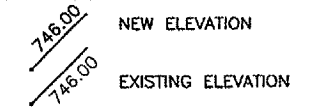
**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**TAXIWAY STAKING PLAN 1**

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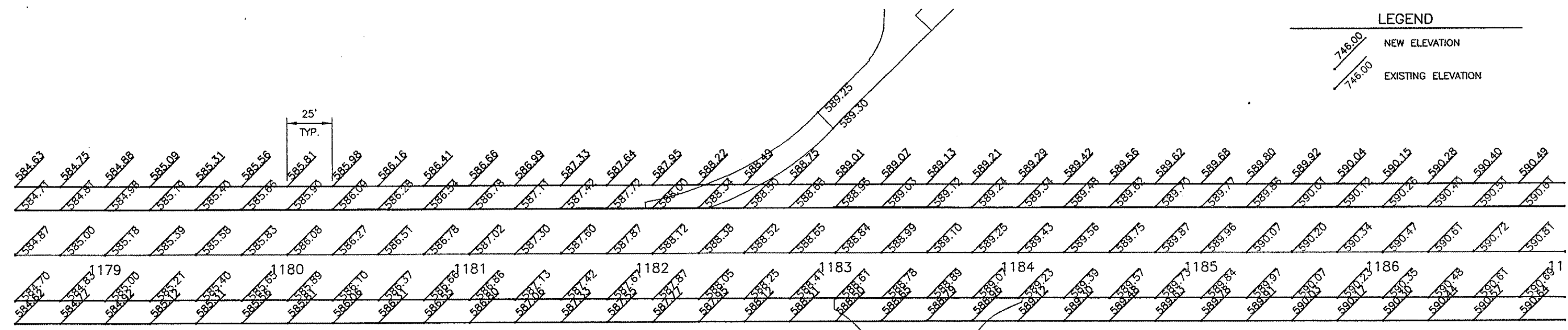
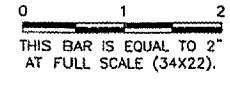
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DRAWN BY:	DPA
CHECKED BY:	<i>RUN</i>
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DATE:	1/23/06
JOB No:	0503507
IL. PROJ. NO.	SPI-3555
AIP PROJ. NO.	3-17-0096-44
SHEET	27 OF 83 SHEETS

LEGEND

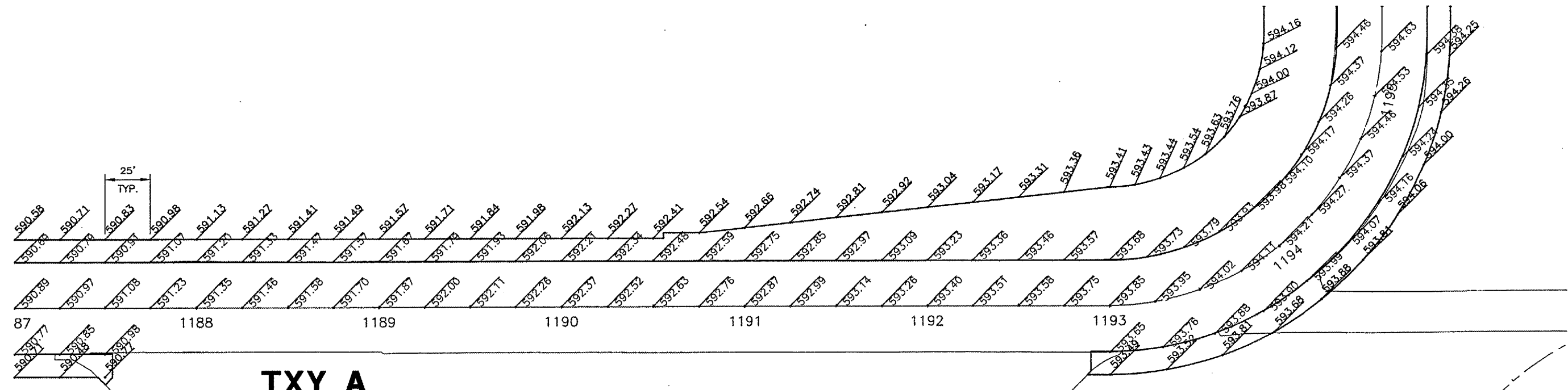


REVISIONS

NUMBER	BY	DATE



**TXY A**



**TXY A**

**ARM/DE-ARM APRON**



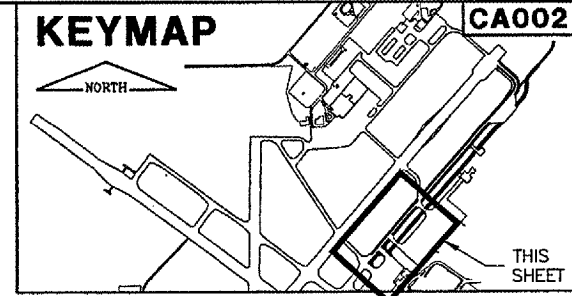
**SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 TAXIWAY STAKING PLAN 2**

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AIP PROJ. NO.	3-17-0096-44
SHEET	28 OF 83 SHEETS

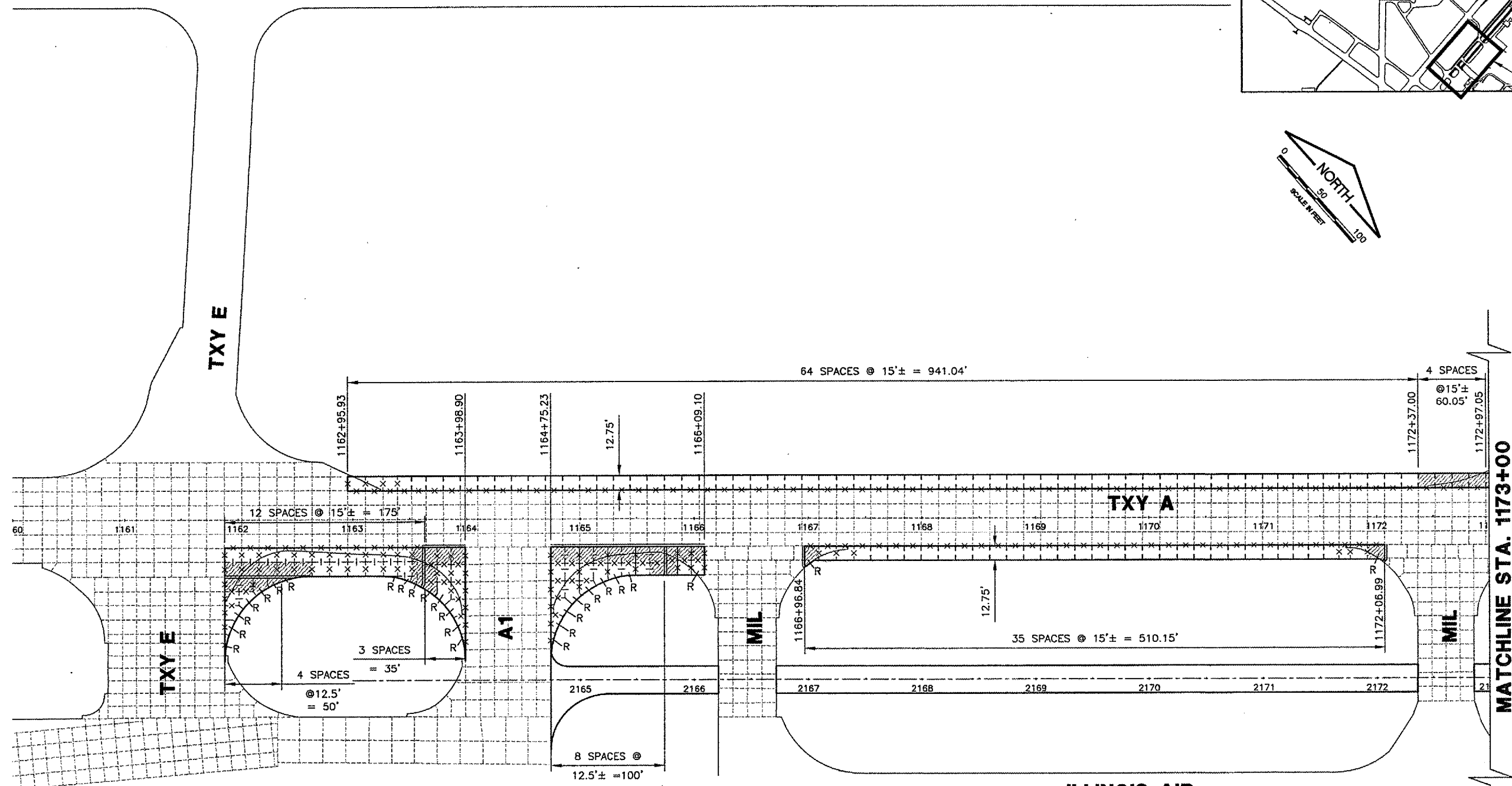




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 BASE\_EXISTTOPO  
 KEY  
 t:info  
 BASE\_PROPJOINT

REVISIONS		
NUMBER	BY	DATE

0 1 2  
 THIS BAR IS EQUAL TO 2"  
 AT FULL SCALE (34X22).



**ILLINOIS AIR  
 NATIONAL  
 GUARD**

**LEGEND**

	TYPE B EXPANSION JOINT
	THICKENED EDGE
	TYPE D (DOWELED)
	TYPE F (DOWELED)
	TYPE G HINGED (TIED)
	TYPE H (DUMMY)
	REINFORCED PANEL
	EXISTING JOINT

**NOTES:**  
 AT LOCATIONS WHERE NEW 13" PCC ABUTS AN EXISTING 10" PCC SURFACE, DOWEL BARS FOR THE NEW TYPE D (DOWELED) CONSTRUCTION JOINT SHALL BE SIZED FOR THE 10" PAVEMENT (T=10")

**SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 JOINTING PLAN 1**

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APPROVED BY:	<i>RLV</i>
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JOB No:	0503507
IL PROJ. NO. SPI-3555	
AIP PROJ. NO. 3-17-0096-44	
SHEET 30 OF 83 SHEETS	

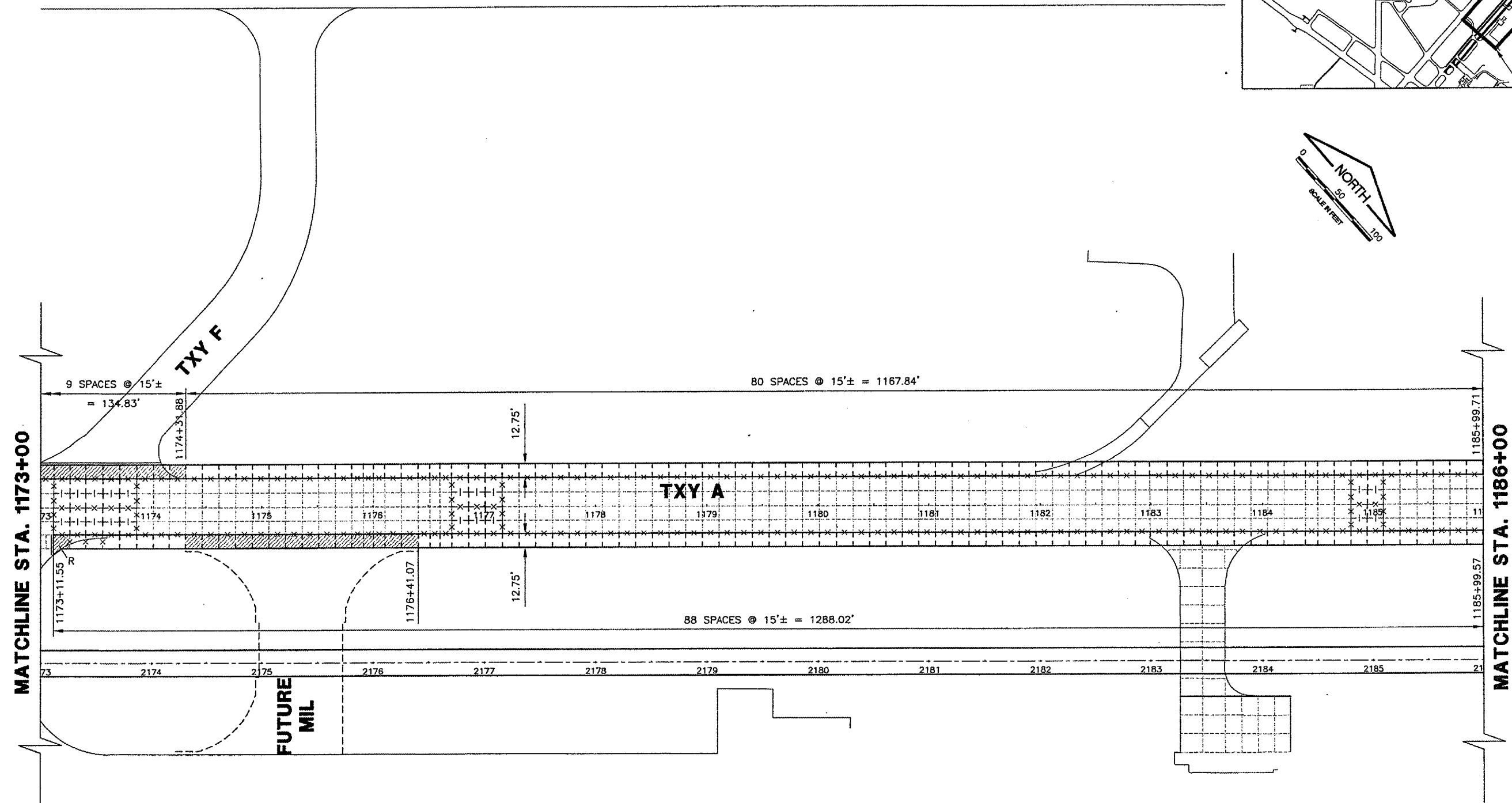
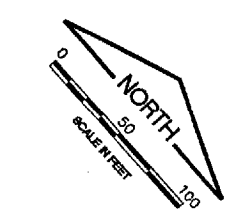
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 tbinfo  
 BASE\_PROPJOINT

REVISIONS		
NUMBER	BY	DATE



MATCHLINE STA. 1173+00

MATCHLINE STA. 1186+00

**LEGEND**

	TYPE B EXPANSION JOINT
	THICKENED EDGE
	TYPE D (DOWELED)
	TYPE F (DOWELED)
	TYPE G HINGED (TIED)
	TYPE H (DUMMY)
	REINFORCED PANEL
	EXISTING JOINT
	FUTURE PAVEMENT

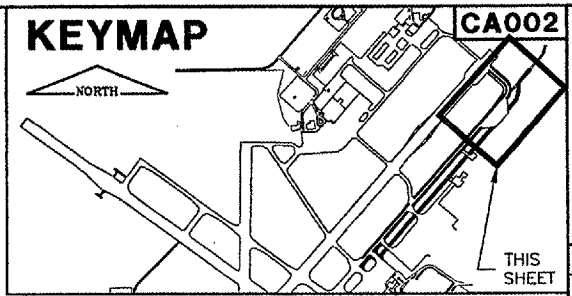
**NOTES:**  
 AT LOCATIONS WHERE NEW 13" PCC ABUTS AN EXISTING 10" PCC SURFACE, DOWEL BARS FOR THE NEW TYPE D (DOWELED) CONSTRUCTION JOINT SHALL BE SIZED FOR THE 10" PAVEMENT (T=10")

**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**JOINTING PLAN 2**

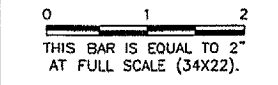
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APPROVED BY:	RLV
DATE:	1/23/06
JOB No:	0503507
IL. PROJ. NO.	SPI-3555
AIP PROJ. NO.	3-17-0096-44
SHEET	31 OF 83 SHEETS

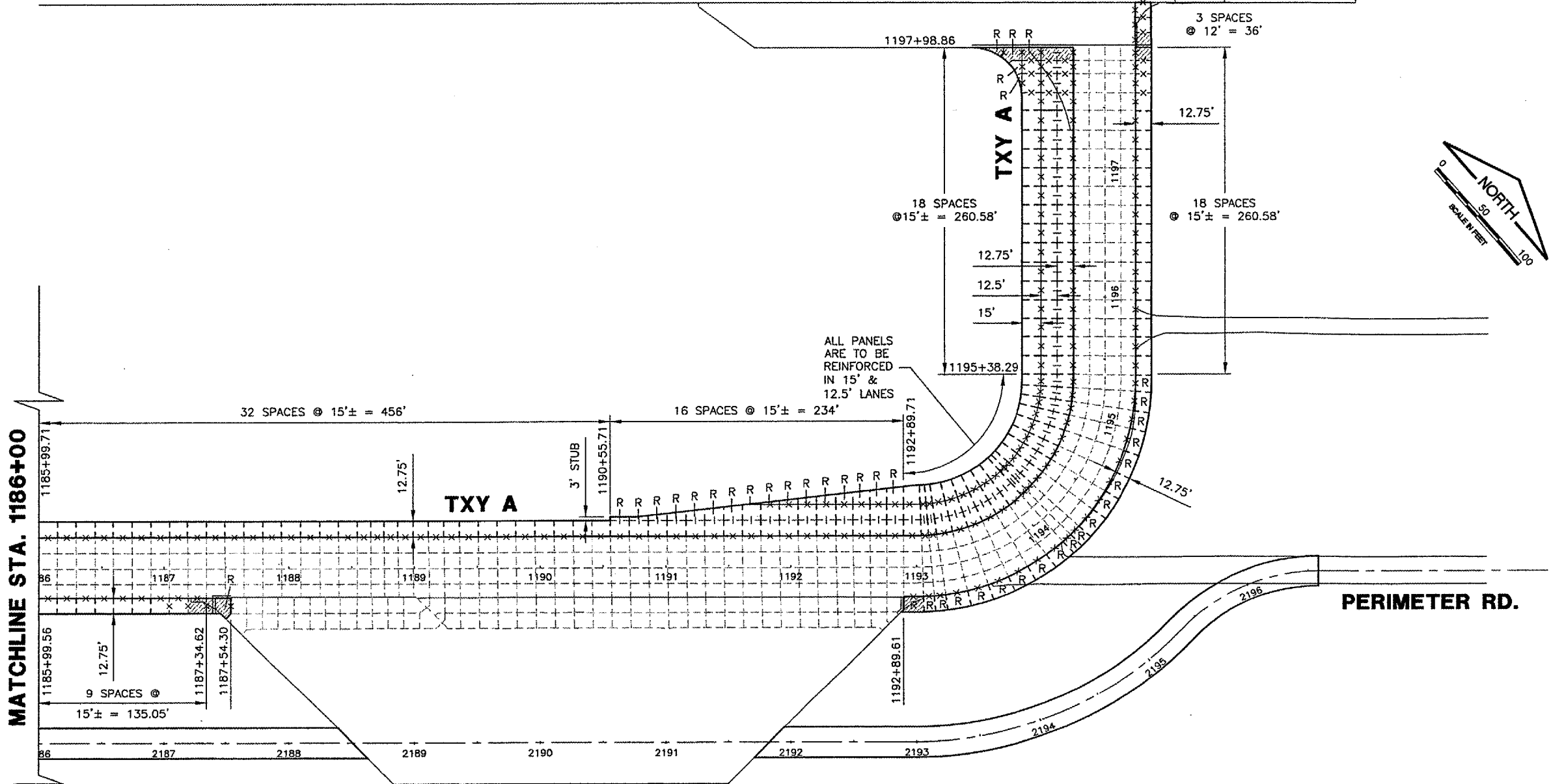


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 BASE\_EXISTTOPO  
 tbinto  
 BASE\_PROPJOINT

REVISIONS		
NUMBER	BY	DATE



MATCHLINE  
 CENTERLINE 4/22



ALL PANELS  
 ARE TO BE  
 REINFORCED  
 IN 15' &  
 12.5' LANES

MATCHLINE STA. 1186+00

PERIMETER RD.

LEGEND

- TYPE B EXPANSION JOINT
- THICKENED EDGE
- TYPE D (DOWELED)
- TYPE F (DOWELED)
- TYPE G HINGED (TIED)
- TYPE H (DUMMY)
- REINFORCED PANEL
- EXISTING JOINT

NOTES:  
 AT LOCATIONS WHERE NEW 13" PCC ABUTS  
 AN EXISTING 10" PCC SURFACE, DOWEL  
 BARS FOR THE NEW TYPE D (DOWELED)  
 CONSTRUCTION JOINT SHALL BE SIZED FOR  
 THE 10" PAVEMENT (T=10").

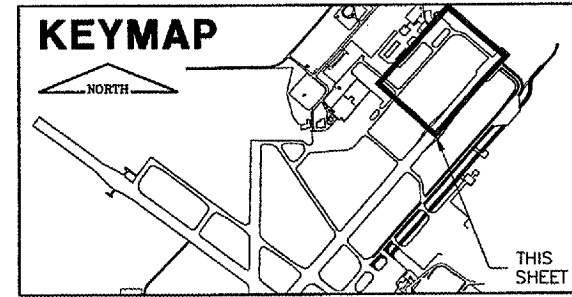
SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 JOINTING PLAN 3

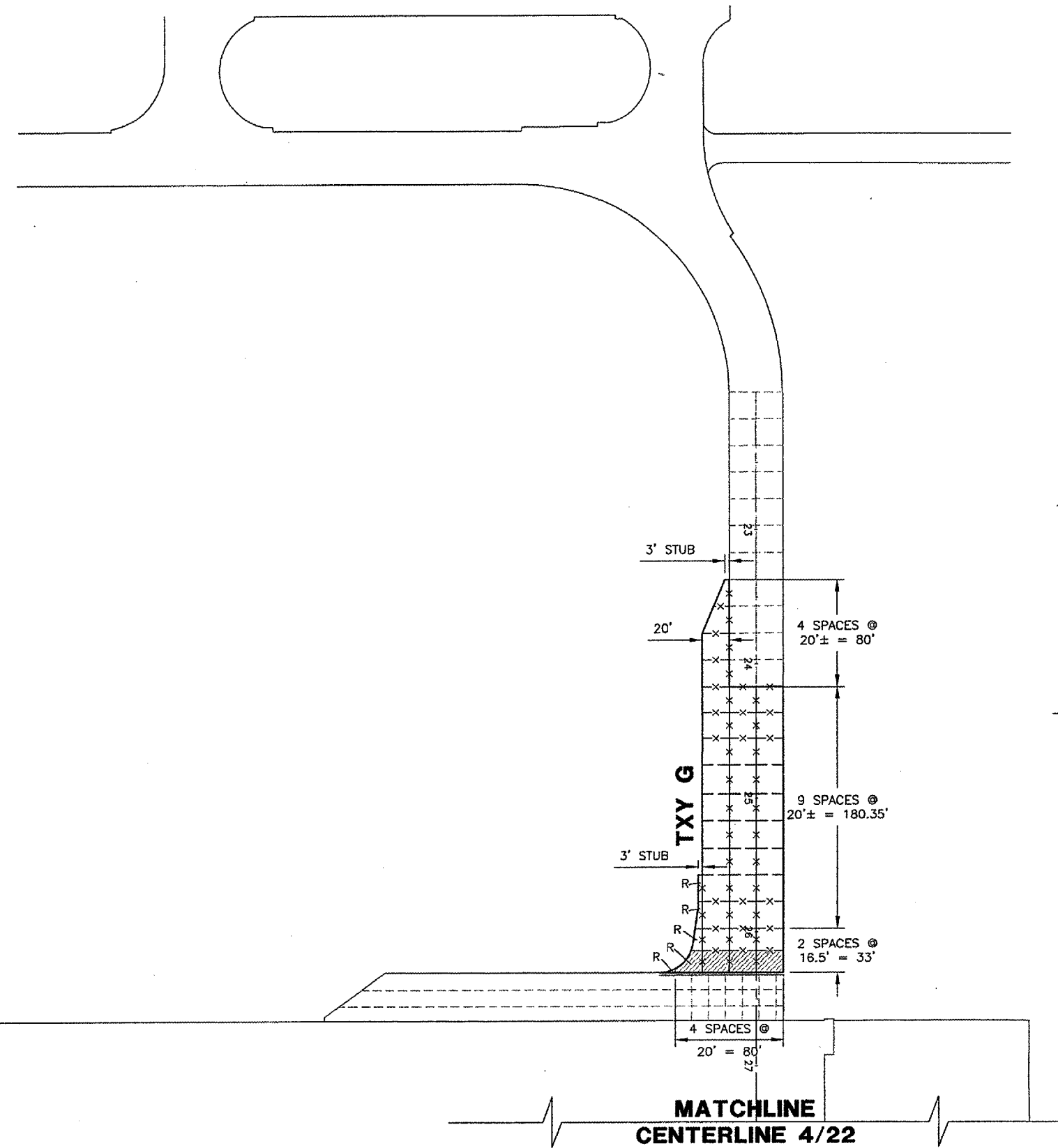
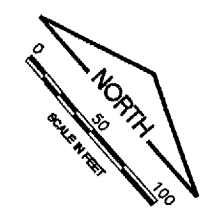
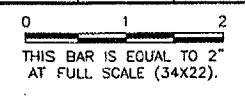
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 CHECKED BY: *RLW*  
 APPROVED BY: *RLW*  
 DATE: 1/23/06  
 JOB No: 0503507  
 IL PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44  
 SHEET 32 OF 83 SHEETS





REVISIONS		
NUMBER	BY	DATE



**NOTES:**  
 AT LOCATIONS WHERE NEW 13" PCC ABUTS AN EXISTING 10" PCC SURFACE, DOWEL BARS FOR THE NEW TYPE D (DOWELED) CONSTRUCTION JOINT SHALL BE SIZED FOR THE 10" PAVEMENT (T=10").

**LEGEND**

	TYPE B EXPANSION JOINT
	THICKENED EDGE
	TYPE D (DOWELED)
	TYPE F (DOWELED)
	TYPE G HINGED (TIED)
	TYPE H (DUMMY)
	REINFORCED PANEL
	EXISTING JOINT

**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

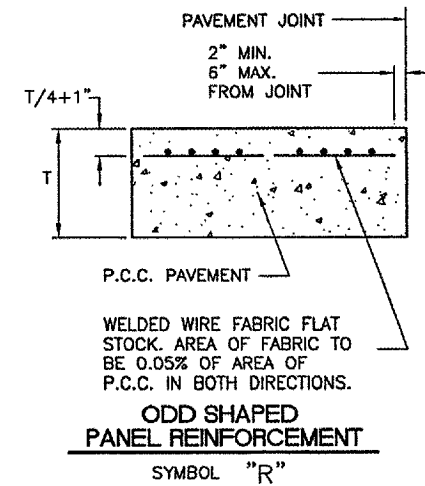
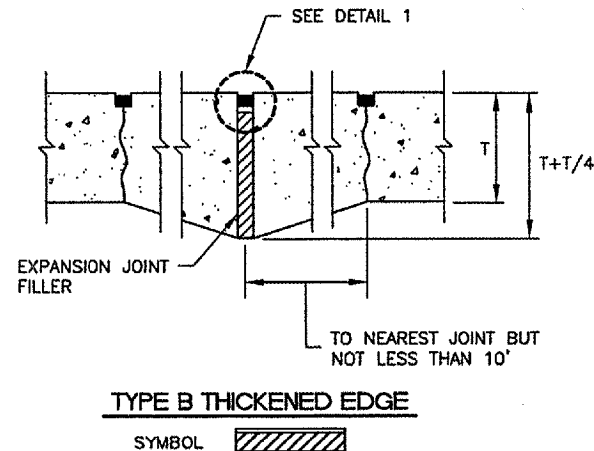
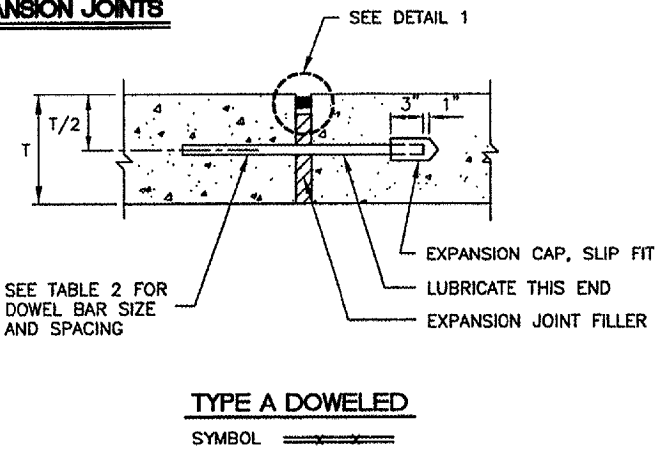
**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**JOINTING PLAN 4**

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APPROVED BY:	RLV
DATE:	1/23/06
JOB No:	0503507
IL PROJ. NO.	SPI-3555
AIP PROJ. NO.	3-17-0096-44
SHEET	33 OF 83 SHEETS

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"

**EXPANSION JOINTS**



CA002

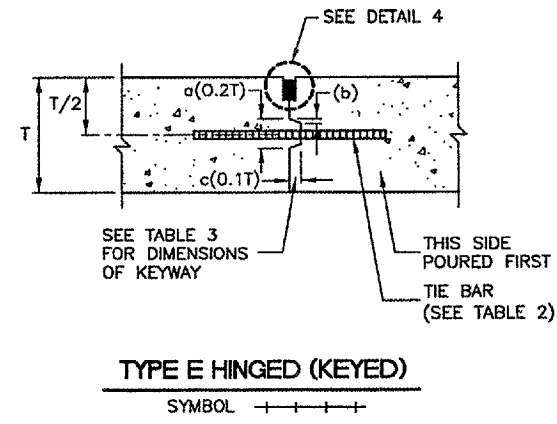
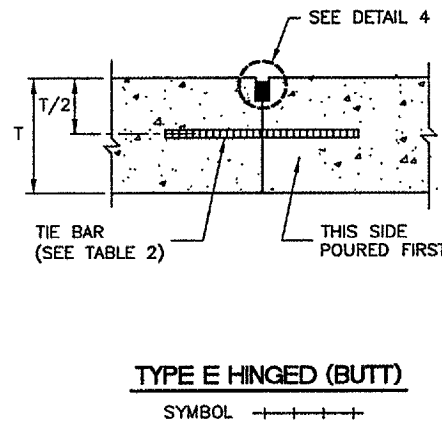
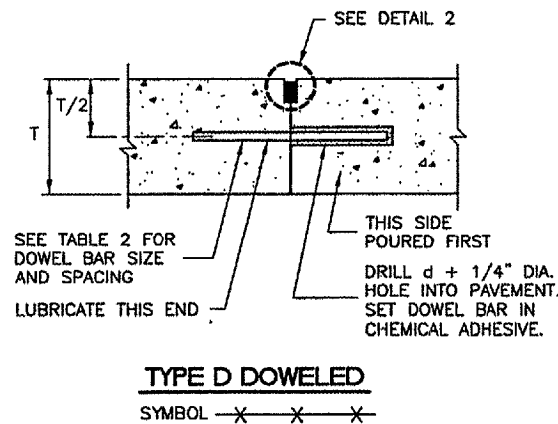
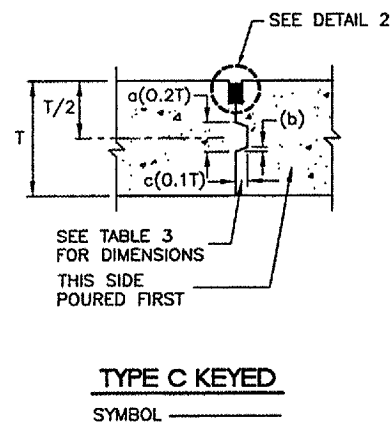
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NUMBER	BY	DATE

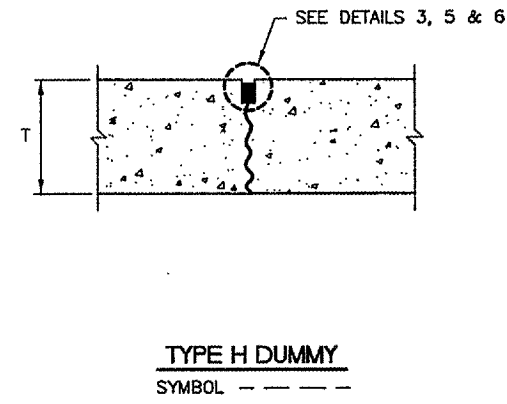
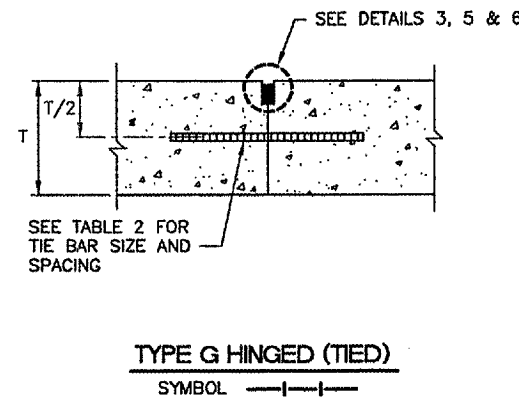
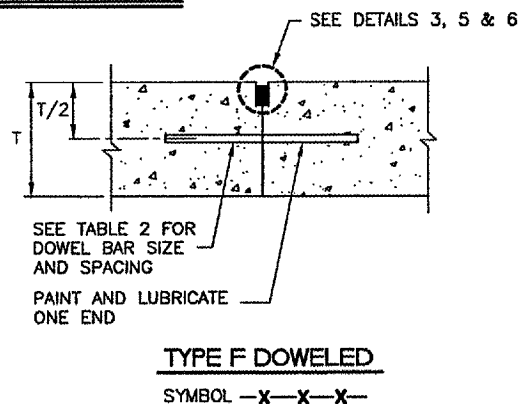
0 1 2  
THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

PAVEMENT THICKNESS T - INCHES	DOWEL BAR DETAILS			TIE BAR DETAILS		
	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"

**CONSTRUCTION JOINTS**



**CONTRACTION JOINTS**



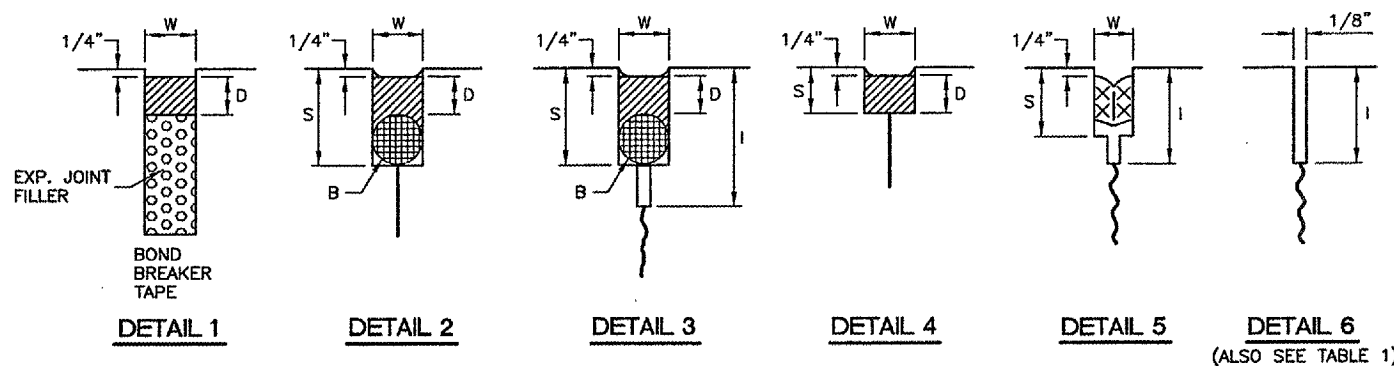
PAVEMENT THICKNESS T - INCHES	KEYED JOINT DIMENSIONS		
	a	b	c
6	—	—	—
7	—	—	—
8	0.133" ( 1-5/8" ± )	0.017" ( 3/16" ± )	0.067" ( 7/8" ± )
9	0.150" ( 1-13/16" ± )	0.019" ( 3/16" ± )	0.075" ( 7/8" ± )
10	0.167" ( 2" )	0.021" ( 1/4" ± )	0.083" ( 1" )
11	0.183" ( 2-13/16" ± )	0.023" ( 1/4" ± )	0.092" ( 1-1/8" ± )
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**

- 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.
- THE INITIAL SAWCUT FOR ALL LONGITUDINAL & TRANSVERSE CONTRACTION JOINTS SHALL BE SAWS AS SOON AS POSSIBLE AFTER PLACEMENT OF THE PAVEMENT.
- ALL TIE BARS & MESH SHALL BE SECURELY HELD IN PLACE BY SUPPORT PINS OR OTHER APPROVED METHODS TO PREVENT SHIFTING DURING & AFTER CONCRETE PLACEMENT.
- TIE BARS SHALL BE DEFORMED BARS IN CONFORMANCE WITH THE SPECIFICATIONS.
- 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.

	DETAIL 1	DETAIL 2	DETAIL 3	DETAIL 4	DETAIL 5
	HOT/COLD POUR	HOT/COLD POUR	HOT/COLD POUR	HOT/COLD POUR	PRE-FORMED
W=WIDTH OF SEALANT RESERVOIR (IN.)	1	1/2	1/2	1/2	3/8 (COM-PRESSED)
D=DEPTH OF SEALANT RESERVOIR (IN.)	1	1/2	1/2	1/2	N/A
B=BACKER ROD DIAMETER (IN.)	N/A	5/8	5/8	N/A	N/A
S=SECOND SAWCUT DEPTH (IN.) MINIMUM	N/A	1-3/8	1-3/8	3/4	1-1/2

**JOINT SEALING DETAILS**

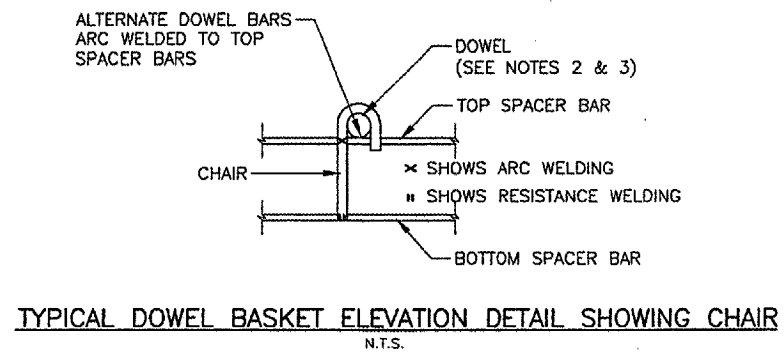
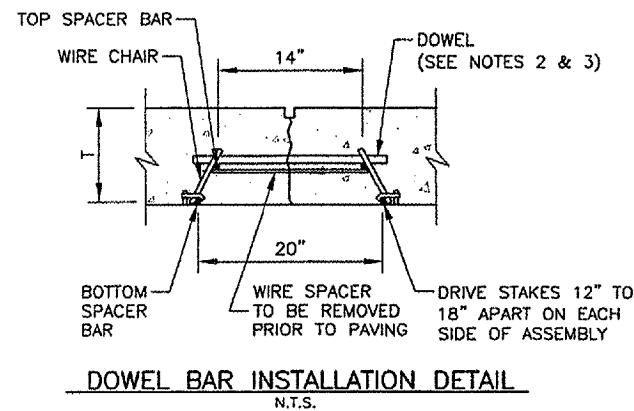
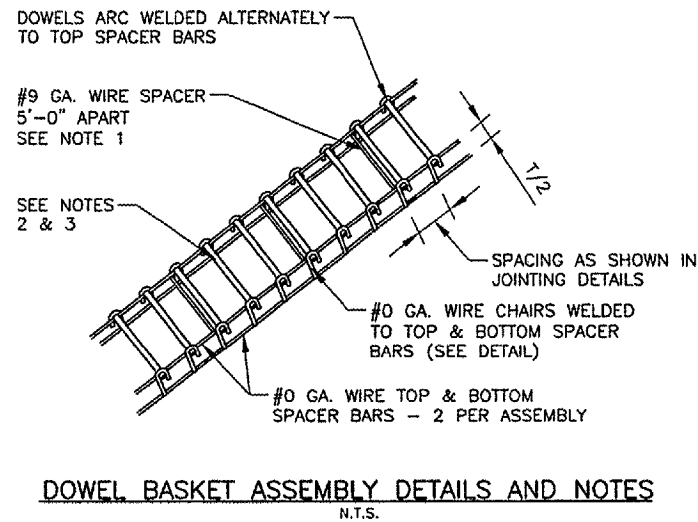


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SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
JOINTING DETAILS

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DRAWN BY: CMT  
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APPROVED BY: *RLW*  
DATE: 1/23/06  
JOB No: 0503507  
IL. PROJ. NO. SPI-3555  
AIP PROJ. NO. 3-17-0096-44  
SHEET 34 OF 83 SHEETS

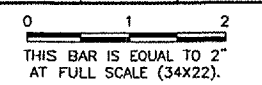


- DOWEL BASKET NOTES**
- #9 GA. WIRE SPACER BAR ARC WELDED TO THE BOTTOM OF TOP SPACER BAR. (MAY BE MECHANICALLY ATTACHED IN LIEU OF WELDING) 3 REQUIRED PER UNIT. THIS WIRE MUST BE CUT OR REMOVED PRIOR TO PAVING.
  - DOWEL BAR DIAMETER, LENGTH & SPACING SHALL BE AS SHOWN IN TABLE 2.
  - DOWELS SHALL 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.

**DOWEL BASKET DETAILS**  
N.T.S.

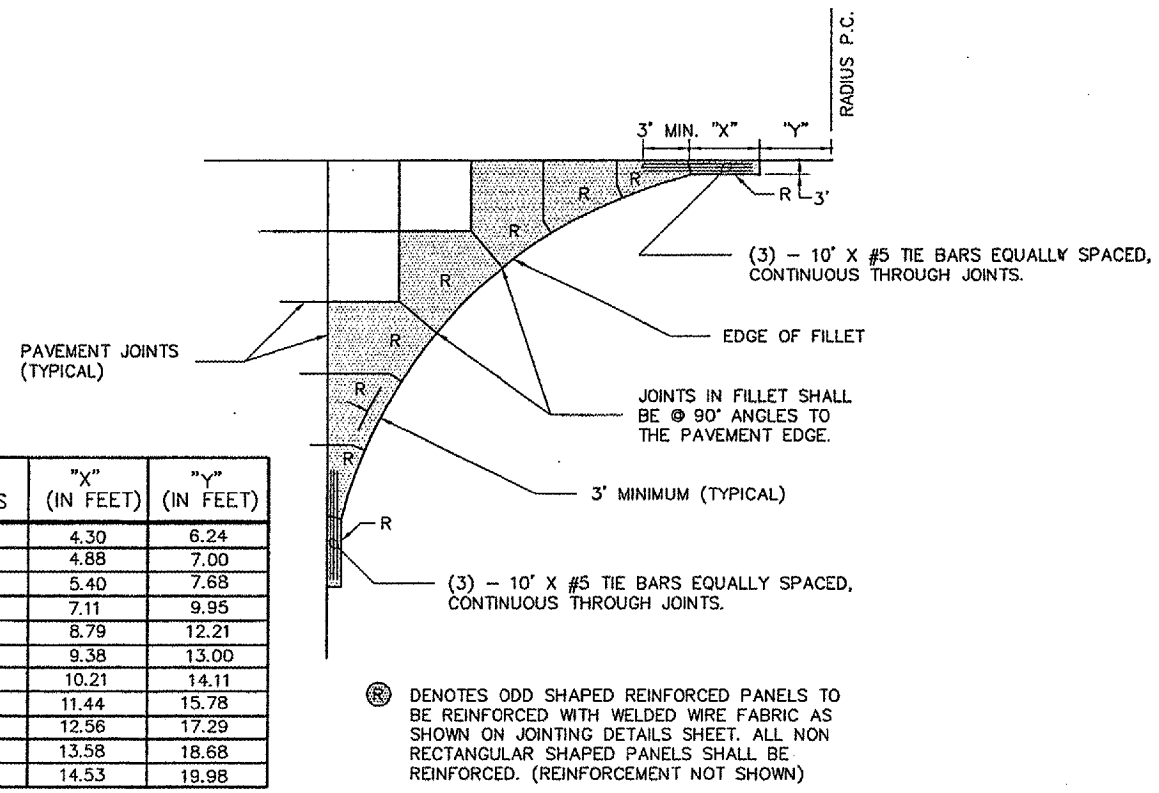
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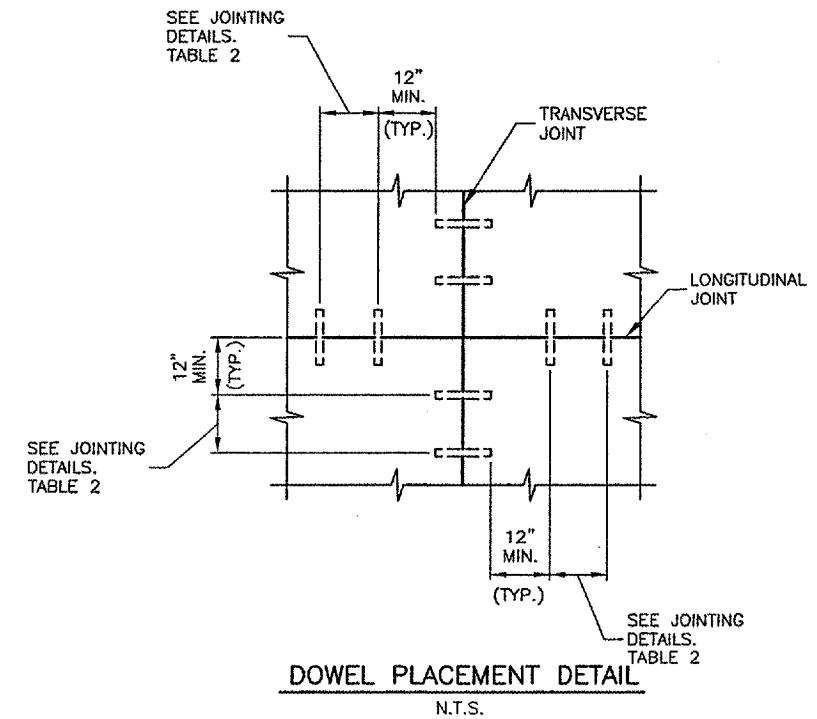
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 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 PAVING & MISCELLANEOUS DETAILS 1



FILLET RADIUS	"X" (IN FEET)	"Y" (IN FEET)
20	4.30	6.24
25	4.88	7.00
30	5.40	7.68
50	7.11	9.95
75	8.79	12.21
85	9.38	13.00
100	10.21	14.11
125	11.44	15.78
150	12.56	17.29
175	13.58	18.68
200	14.53	19.98

**FILLET DETAIL AND FILLET REINFORCING LAYOUT**  
N.T.S.



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JOB No: 0503507

IL PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0098-44

SHEET 35 OF 83 SHEETS

REVISIONS		
NUMBER	BY	DATE

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 THIS BAR IS EQUAL TO 2"  
 AT FULL SCALE (34X22).

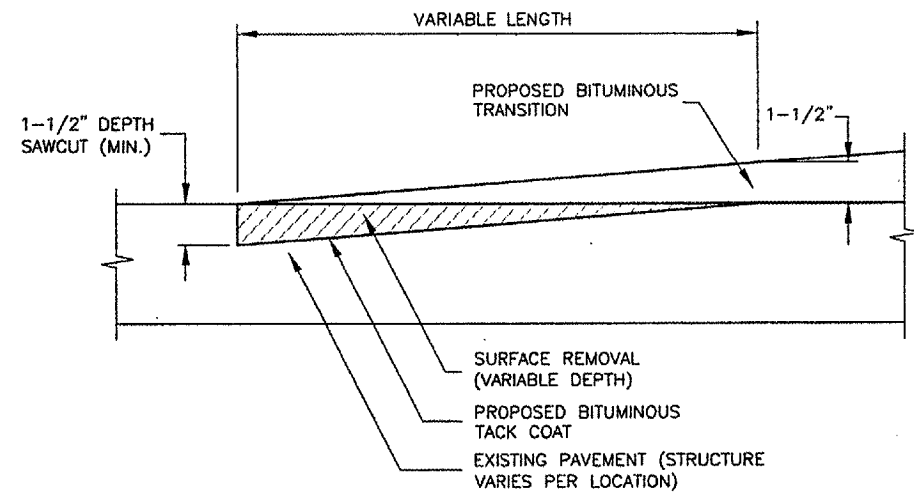
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**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**PAVING & MISCELLANEOUS DETAILS 2**

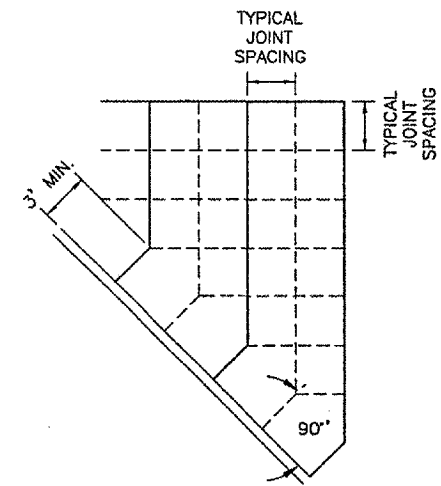
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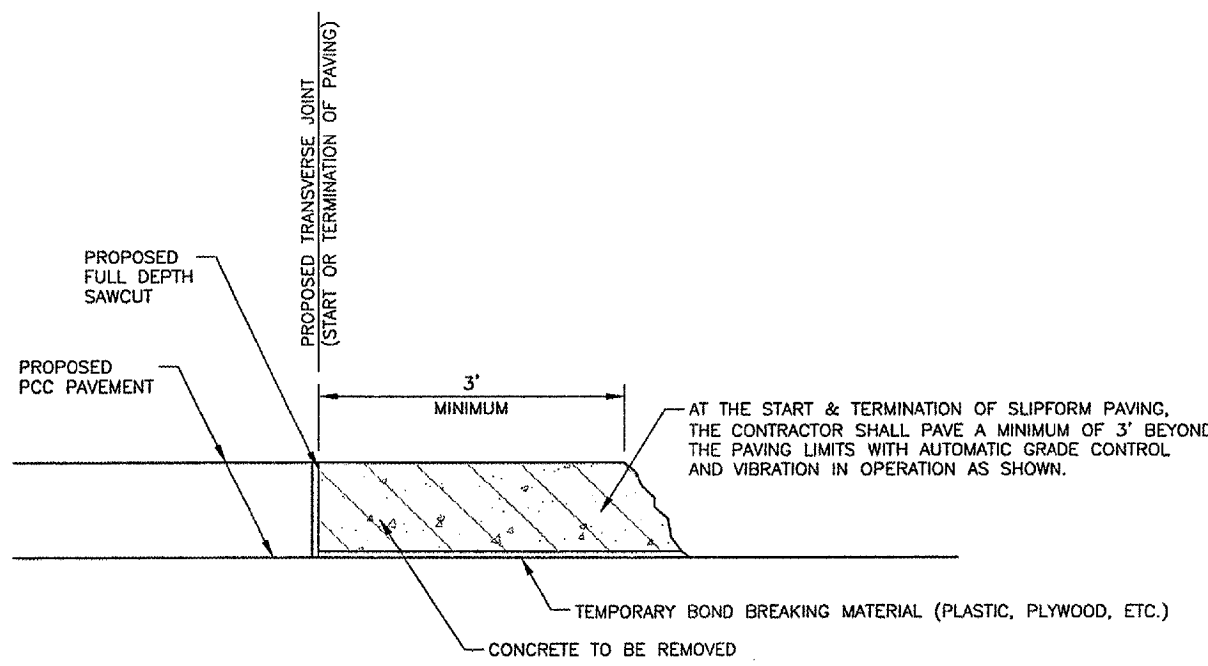
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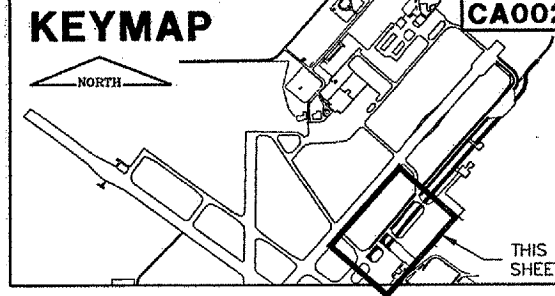
**BUTT JOINT DETAIL**  
 N.T.S.



**JOINTING AT SKEWED EDGE**  
 N.T.S.

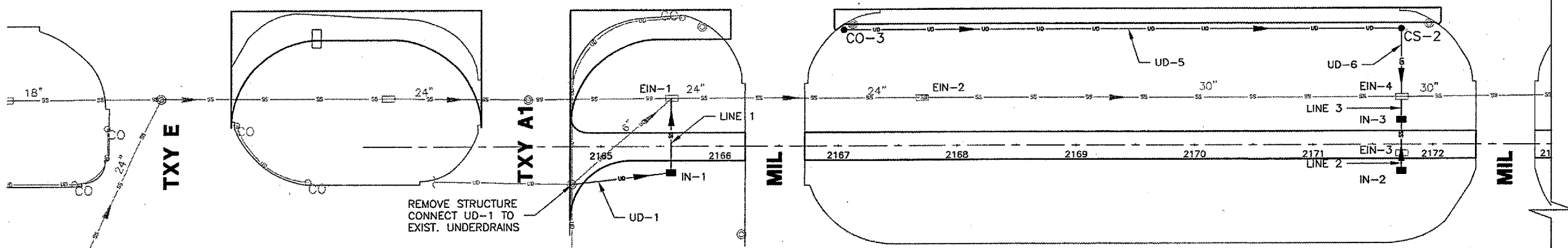
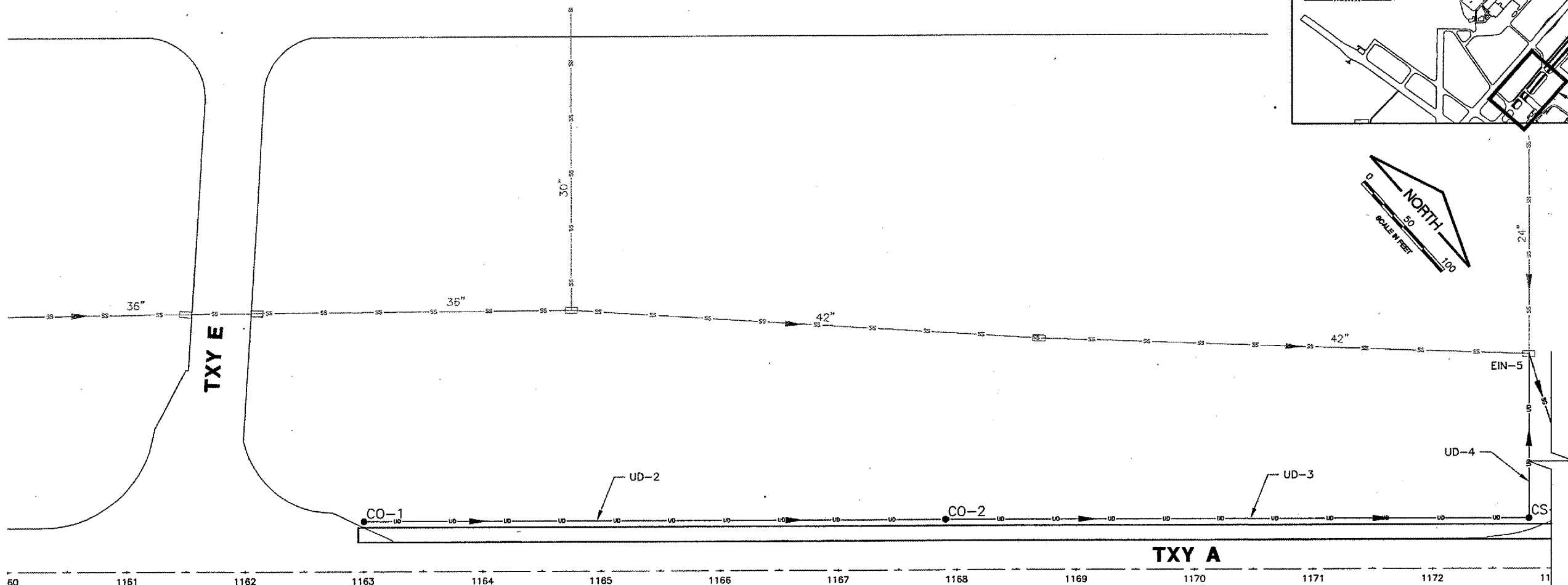
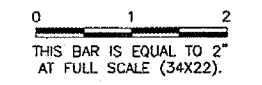


**REQUIREMENTS AT START AND TERMINATION OF SLIPFORM PAVING**  
 N.T.S.



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 UPDATE BY: Dove Allen  
 PLOT DATE: 2/6/2006 4:35 PM  
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 KEY  
 BASE\_EXISTOPO  
 tbinfo  
 BASE\_PROPDRAIN

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NUMBER	BY	DATE



**STORM SEWER PIPE SCHEDULE**

Line	Upstream Structure	Downstream Structure	Size	Upstream Invert	Downstream Invert	Pipe Length	Slope
1	IN-1	EIN-1	12"	580.29	579.97	64	0.50%
2	IN-2	IN-3	12"	578.17	577.95	44	0.50%
3	IN-3	EIN-4	12"	577.95	574.57	20	16.90%
4	EIN-5	EMH-3	48"	572.00	570.95	369	0.28%

**UNDERDRAIN PIPE SCHEDULE**

Line	Structure	Structure	Upstream Invert	Downstream Invert	Length Ft.	Slope	Pipe
UD-1	ECS-1	IN-1	583.38	581.29	84	2.49%	Non
UD-2	CO-1	CO-2	584.95	584.01	490	0.19%	Perforated
UD-3	CO-2	CS-1	584.01	583.17	490	0.17%	Perforated
UD-4	CS-1	EIN-5	583.17	579.46	142	2.61%	Non
UD-5	CO-3	CS-2	584.04	583.27	470	0.16%	Perforated
UD-6	CS-2	EIN-4	583.27	580.06	61	5.26%	Non

**STORM SEWER STRUCTURE SCHEDULE**

Structure	Alignment	Station	Offset	Northing	Easting	Rim	Invert 1	Invert 2	Upstream Pipe Run	Downstream Pipe Run
EIN-01	Perim RD	2165+59.	42.38 L	1158208.17	2435247.78	583.79	576.6	579.97		Line 1
EIN-02	Perim RD	2167+70.	42.17 L	1158366.31	2435387.03	583.48	575.43			
EIN-03	Perim RD	2171+74.	8.09 R	1158637.15	2435691.92	581.24	575.51			
EIN-04	Perim RD	2171+74.	42.01 L	1158669.78	2435653.9	583.07	573.63	574.57		Line 3
EIN-05	Taxiway A	1172+80.	180.76 L	1158934.92	2435513.13	582.46	572		Line 4	
IN-1	Perim RD	2165+59.	22.00 R	1158165.25	2435295.77	584.29	580.29		Line 1	
IN-2	Perim RD	2171+74.	22.00 R	1158627.53	2435701.98	582.17	575.58		Line 2	
IN-3	Perim RD	2171+74.	22.00 L	1158656.57	2435668.92	581.86	575.36		Line 3	

**UNDERDRAIN STRUCTURE SCHEDULE**

Structure	Alignment	Station	Offset	Northing	Easting	Rim	Invert 1	Type
CO-1	Taxiway A	1163+00.5	-38.5	1158104.72	2434973.01	586.95	584.95	1
CO-2	Taxiway A	1167+90.5	-38.5	1158472.83	2435296.47	586.01	584.01	3
CO-3	Taxiway A	1167+04.7	38.5	1158357.51	2435297.64	586.04	584.04	1
CS-1	Taxiway A	1172+80.6	-39.5	1158840.94	2435619.94	585.17	583.17	
CS-2	Taxiway A	1171+74.1	39.5	1158710.17	2435607.53	585.27	583.27	
ECS-1	Perim Road	2164+75.6	31.8	1158096.14	2435248.13	585.98	583.38	

**LEGEND**

- UD — EXISTING UNDERDRAIN
- UD — NEW UNDERDRAIN
- SS — EXISTING STORM SEWER
- SS — NEW STORM SEWER
- ⊙ CO EXISTING CLEANOUT
- CO-2 NEW CLEANOUT
- CS-6 NEW COLLECTION STRUCTURE
- EIN-2 EXISTING INLET
- IN-2 NEW INLET
- ⊙ EXISTING MANHOLE

MATCHLINE STA. 1173+00

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**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**  
**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**DRAINAGE PLAN 1**

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 APPROVED BY: *RLV*  
 DATE: 1/23/06  
 JOB No: 0503507  
 ILL. PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44  
 SHEET 37 OF 83 SHEETS

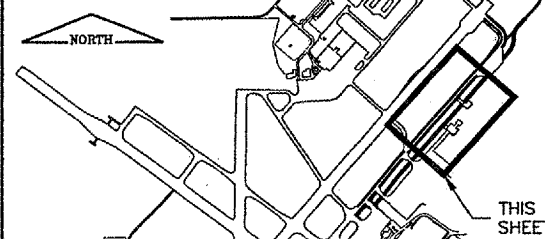
UNDERDRAIN STRUCTURE SCHEDULE

Structure	Alignment	Station	Offset	Northing	Easting	Rim	Invert 1	Type
CO-4	Taxiway A	1174+10.9	-38.5	1158938.89	2435706.01	584.67	582.67	1
CO-5	Taxiway A	1173+18.7	38.5	1158818.79	2435702.97	584.98	582.98	1
CO-6	Taxiway A	1182+28.9	-38.5	1159553.37	2436245.95	588.2	586.2	1
CO-7	Taxiway A	1182+23.5	38.5	1159498.48	2436300.22	587.87	585.87	1
CS-3	Taxiway A	1177+09.0	-39.5	1159162.75	2435902.72	584	582	
CS-4	Taxiway A	1177+10.9	39.5	1159114.04	2435961.08	583.97	581.97	
CS-5	Taxiway A	1183+99.2	-39.5	1159681.24	2436358.31	589.23	587.23	

UNDERDRAIN PIPE SCHEDULE

Line	Structure	Structure	Upstream	Downstream	Length	Slope	Pipe
UD-7	CO-4	CS-3	582.67	582	298	0.22%	Perforated
UD-8	CS-3	EIN-8	582	578.3	186	1.99%	Non
UD-9	CO-5	CS-4	582.98	581.97	392	0.26%	Perforated
UD-10	CS-4	IN-6	581.97	578.5	83	4.18%	Non
UD-11	CO-6	CS-3	586.2	582	520	0.81%	Perforated
UD-12	CO-7	CS-4	585.87	581.97	512	0.76%	Perforated
UD-13	CO-8	CO-7	588.75	585.87	523	0.55%	Perforated
UD-14	CS-5	EIN-10	587.23	584.94	109	2.10%	Perforated
UD-15	CO-9	CS-5	590.34	587.23	650	0.48%	Perforated

KEYMAP



CA002

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 PLOT DATE: 2/6/2006 4:36 PM  
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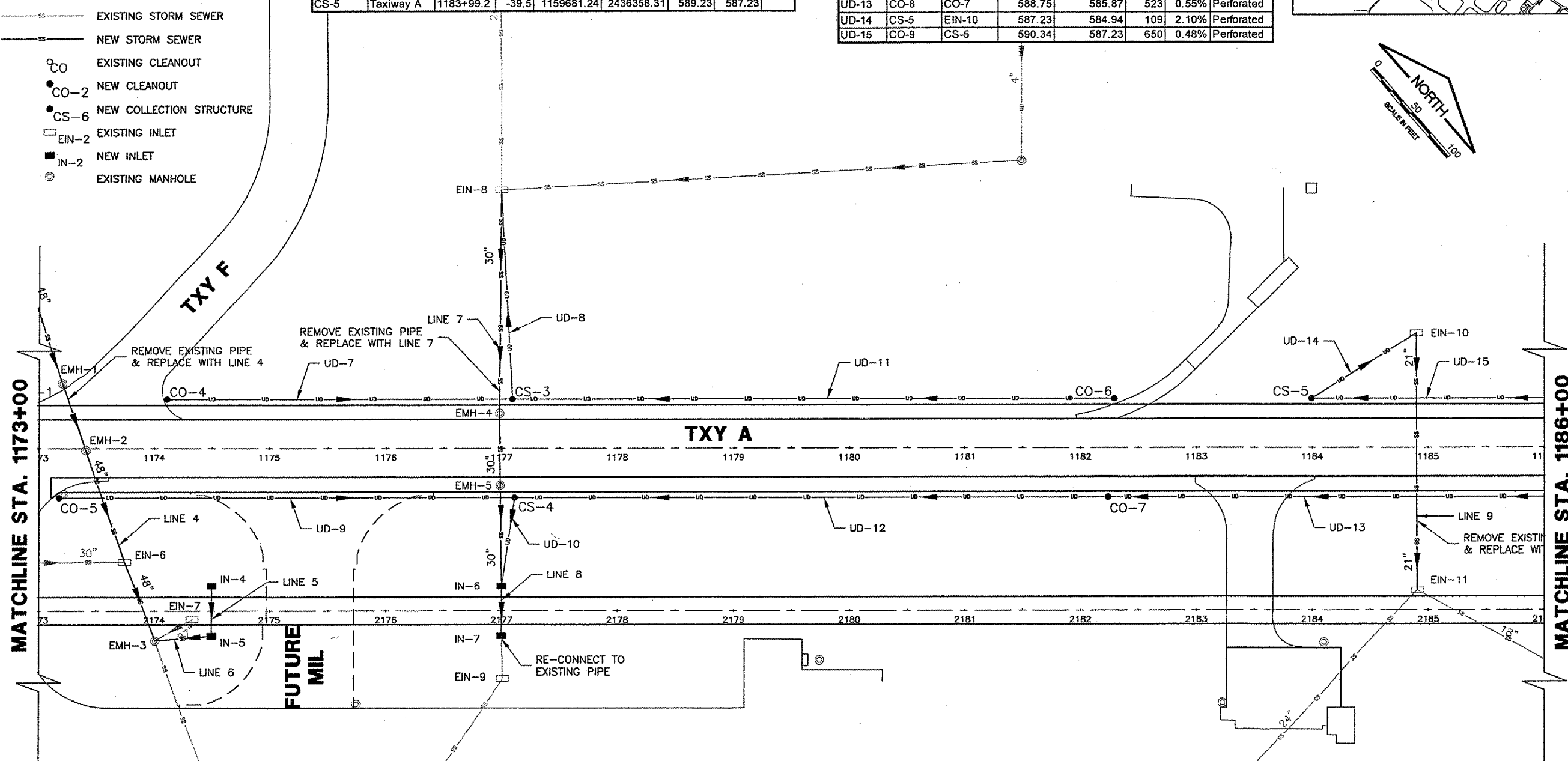
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NUMBER	BY	DATE

0" 1" 2"  
 THIS BAR IS EQUAL TO 2"  
 AT FULL SCALE (34X22).

LEGEND

- EXISTING UNDERDRAIN
- NEW UNDERDRAIN
- EXISTING STORM SEWER
- NEW STORM SEWER
- ⊙ EXISTING CLEANOUT
- CO-2 NEW CLEANOUT
- CS-6 NEW COLLECTION STRUCTURE
- EIN-2 EXISTING INLET
- IN-2 NEW INLET
- ⊙ EXISTING MANHOLE



STORM SEWER PIPE SCHEDULE

Line	Upstream Structure	Downstream Structure	Size	Upstream Invert	Downstream Invert	Pipe Length	Slope
4	EIN-5	EMH-3	48"	572.00	570.95	369	0.28%
5	IN-4	IN-5	12"	576.63	576.41	44	0.50%
6	IN-5	EMH-3	12"	576.41	573.24	49	6.47%
7	EIN-8	IN-6	30"	571.54	570.87	344	0.19%
8	IN-6	IN-7	30"	570.87	570.79	44	0.18%
9	EIN-10	EIN-11	21"	584.33	582.40	224	0.86%

STORM SEWER STRUCTURE SCHEDULE

Structure	Alignment	Station	Offset	Northing	Easting	Rim	Invert 1	Invert 2	Upstream Pipe Run	Downstream Pipe Run
EIN-06	Perim RD	2173+74.	43.75 L	1158821.2	2435784.63	582.81	581.17			
EIN-07	Perim RD	2174+32.	7.46 R	1158831.38	2435881.76	579.08	573.68			
EIN-08	Taxiway A	1176+99.	224.35 L	1159278.06	2435756.63	581.33	571.54			Line 7
EIN-09	Perim RD	2177+00.	57.84 R	1158999.37	2436076.43	578.41	570.73	570.7		
EIN-10	Taxiway A	1184+89.	99.43 L	1159789.24	2436372.1	587.44	584.33		Line 9	
EIN-11	Perim RD	2184+90.	17.54 L	1159642.17	2436540.92	586.19	582.24			Line 9
EMH-1	Taxiway A	1173+21.	56.49 L	1158883.62	2435633.49	584.8	571.63			
EMH-2	Taxiway A	1173+41.	1.49 R	1158860.2	2435690.09	585	571.46			
EMH-3	Perim RD	2174+00.	26.19 R	1158794.71	2435854.46	580.76	570.95	573.24		Line 6
EMH-4	Taxiway A	1176+98.	30.10 L	1159149.03	2435901.84	583.98	570.96			
EMH-5	Taxiway A	1176+98.	31.66 R	1159108.73	2435948.64	583.81	570.78			
IN-4	Perim RD	2174+50.	22.00 L	1158863.61	2435850.85	580.63	577.1		Line 5	
IN-5	Perim RD	2174+50.	22.00 R	1158834.56	2435883.9	579.84	576.88		Line 6	Line 5
IN-6	Perim RD	2177+00.	22.00 L	1159051.52	2436015.97	580.5	570.87		Line 7	Line 8
IN-7	Perim RD	2177+00.	22.00 R	1159022.47	2436049.02	580	570.79		Line 8	Exist Pipe



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WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 DRAINAGE PLAN 2

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 JOB No: 0503507

IL PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44  
 SHEET 38 OF 83 SHEETS

UNDERDRAIN PIPE SCHEDULE

Line	Structure	Structure	Upstream	Downstream	Length	Slope	Pipe
UD-13	CO-8	CO-7	588.75	585.87	523	0.55%	Perforated
UD-15	CO-9	CS-5	590.34	587.23	650	0.48%	Perforated
UD-16	CO-10	CO-9	593.69	590.34	608	0.55%	Perforated

UNDERDRAIN STRUCTURE SCHEDULE

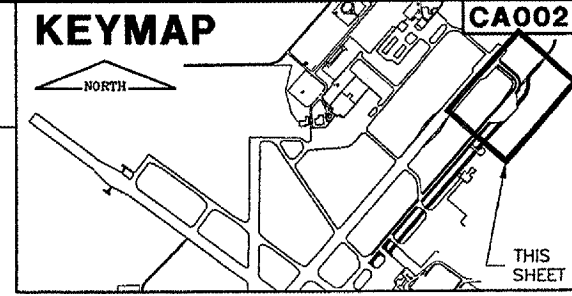
Structure	Alignment	Station	Offset	Northing	Easting	Rim	Invert 1	Type
CO-8	Taxiway A	1187+46.2	38.5	1159891.09	2436645.21	590.75	588.75	1
CO-9	Taxiway A	1190+49.2	38.5	1160169.51	2436787.37	592.34	590.34	1
CO-10	Taxiway A	1197+58.8	-66	1160642.01	2436755.92	595.69	593.69	1

STORM SEWER PIPE SCHEDULE

Line	Upstream Structure	Downstream Structure	Size	Upstream Invert	Downstream Invert	Pipe Length	Slope
10	FES-2	FES-1	12"	587.42	587.18	80	0.29%

STORM SEWER STRUCTURE SCHEDULE

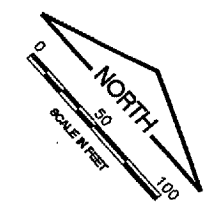
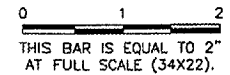
Structure	Alignment	Station	Offset	Northing	Easting	Rim	Invert 1	Invert 2	Upstream Pipe Run	Downstream Pipe Run
FES-1	Perim RD	2187+18.	27.28 L	1159820.35	2436684.52		587.18			Line 10
FES-2	Perim RD	2187+81.	27.28 R	1159830.92	2436766.45		587.42		Line 10	



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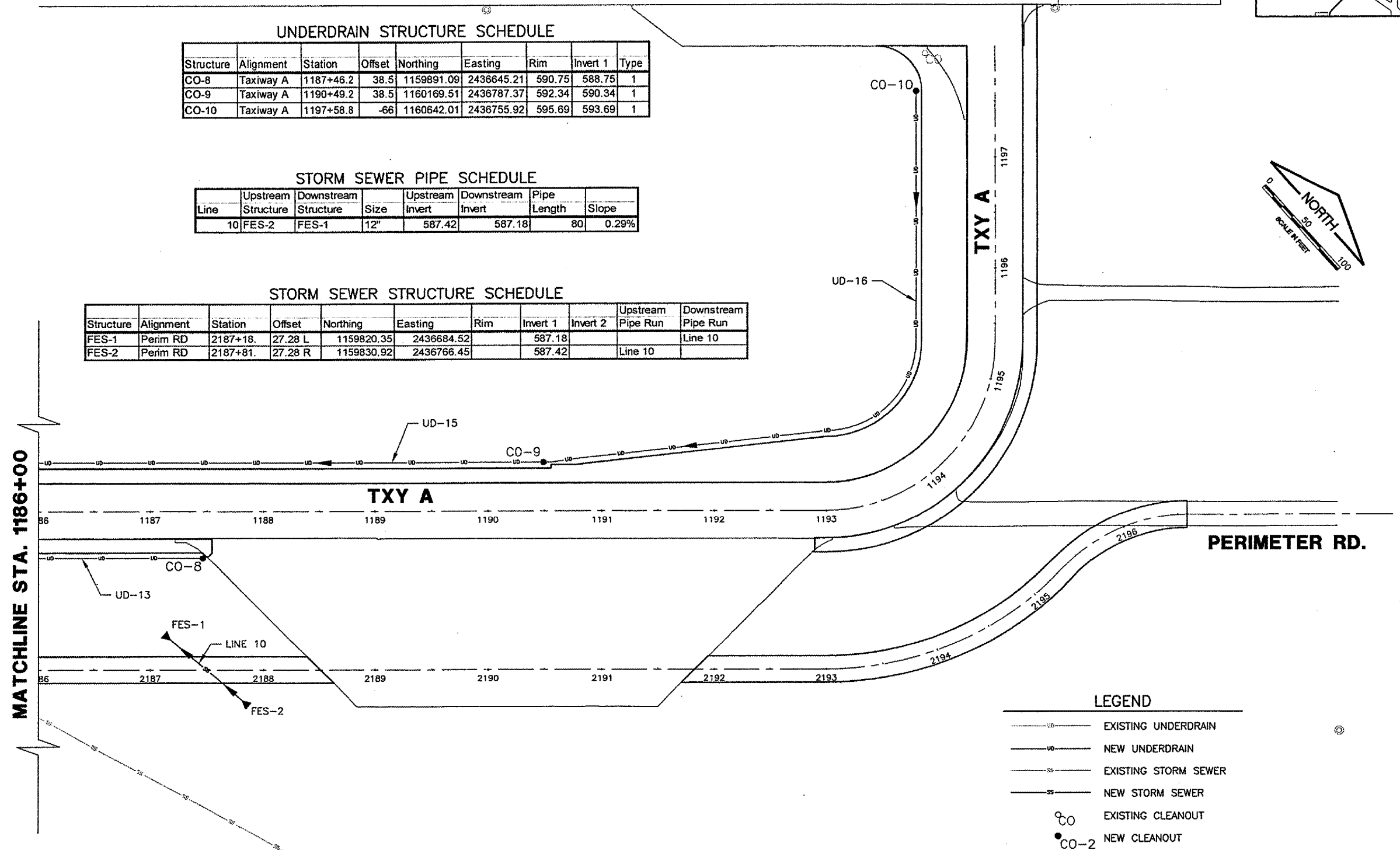
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MATCHLINE  
CENTERLINE 4/22




LEGEND

- UD — EXISTING UNDERDRAIN
- UD — NEW UNDERDRAIN
- SS — EXISTING STORM SEWER
- SS — NEW STORM SEWER
- ⊙ EXISTING CLEANOUT
- CO-2 NEW CLEANOUT
- CS-6 NEW COLLECTION STRUCTURE
- EIN-2 EXISTING INLET
- IN-2 NEW INLET
- ⊙ EXISTING MANHOLE
- ▶ FES-2 NEW FLARED END SECTION

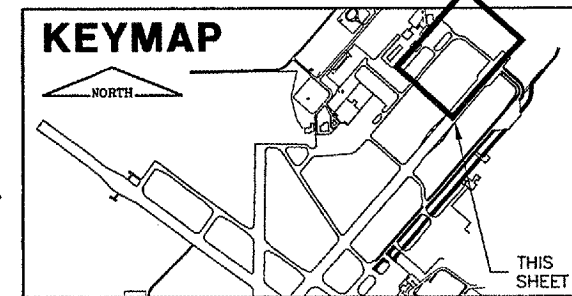
  
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**SPRINGFIELD, ILLINOIS**

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**DRAINAGE PLAN 3**

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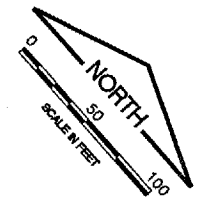
  
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JOB No:	0503507
IL PROJ. NO. SPI-3555	
AIP PROJ. NO. 3-17-0096-44	
SHEET 39 OF 83 SHEETS	



REVISIONS		
NUMBER	BY	DATE

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 THIS BAR IS EQUAL TO 2'  
 AT FULL SCALE (34X22).

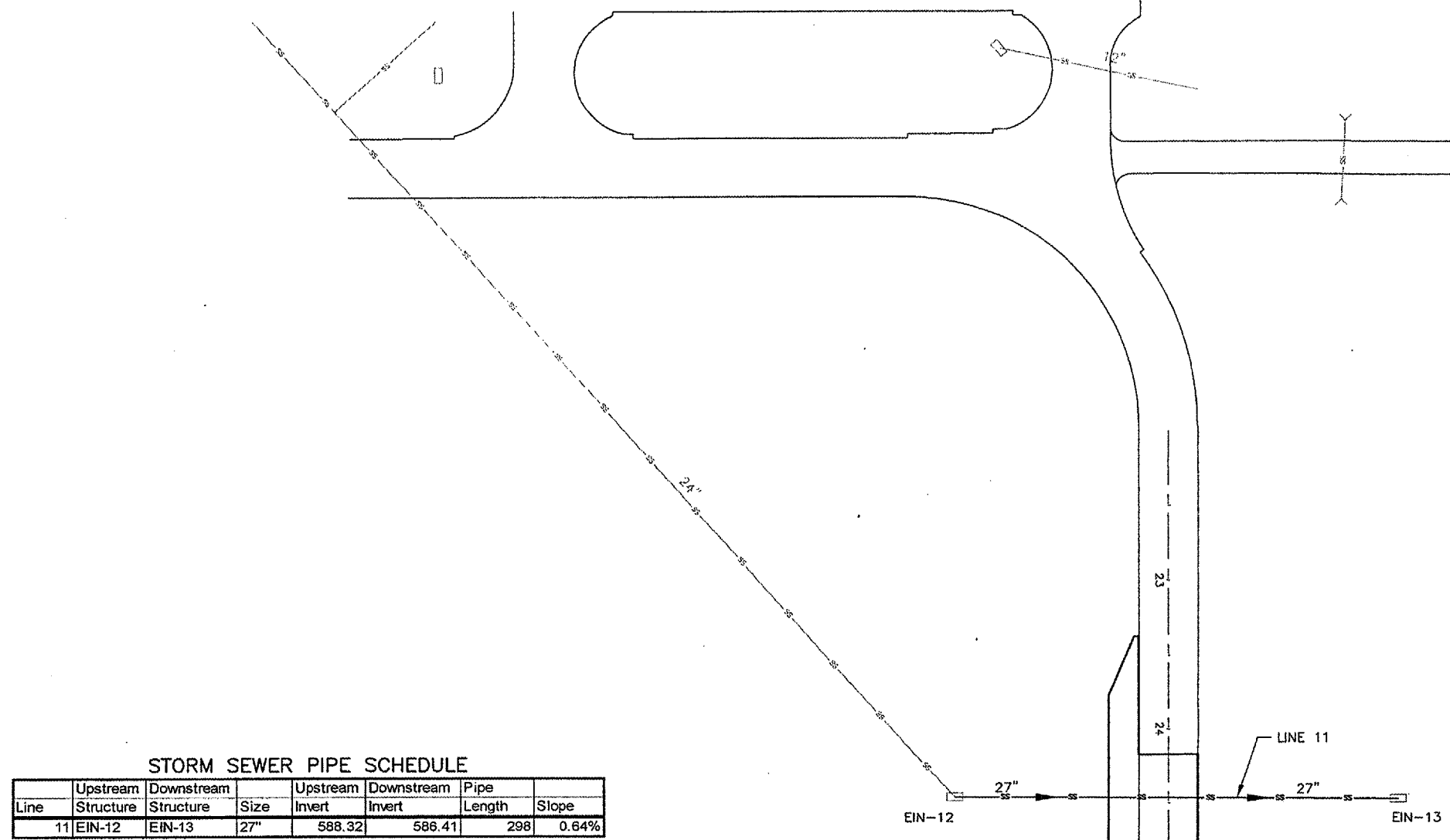


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**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**DRAINAGE PLAN 4**

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 APPROVED BY: *RLV*  
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 JOB No: 0503507  
 ILL. PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44  
 SHEET 40 OF 83 SHEETS



**STORM SEWER PIPE SCHEDULE**

Line	Upstream Structure	Downstream Structure	Size	Upstream Invert	Downstream Invert	Pipe Length	Slope
11	EIN-12	EIN-13	27"	588.32	586.41	298	0.64%

**STORM SEWER STRUCTURE SCHEDULE**

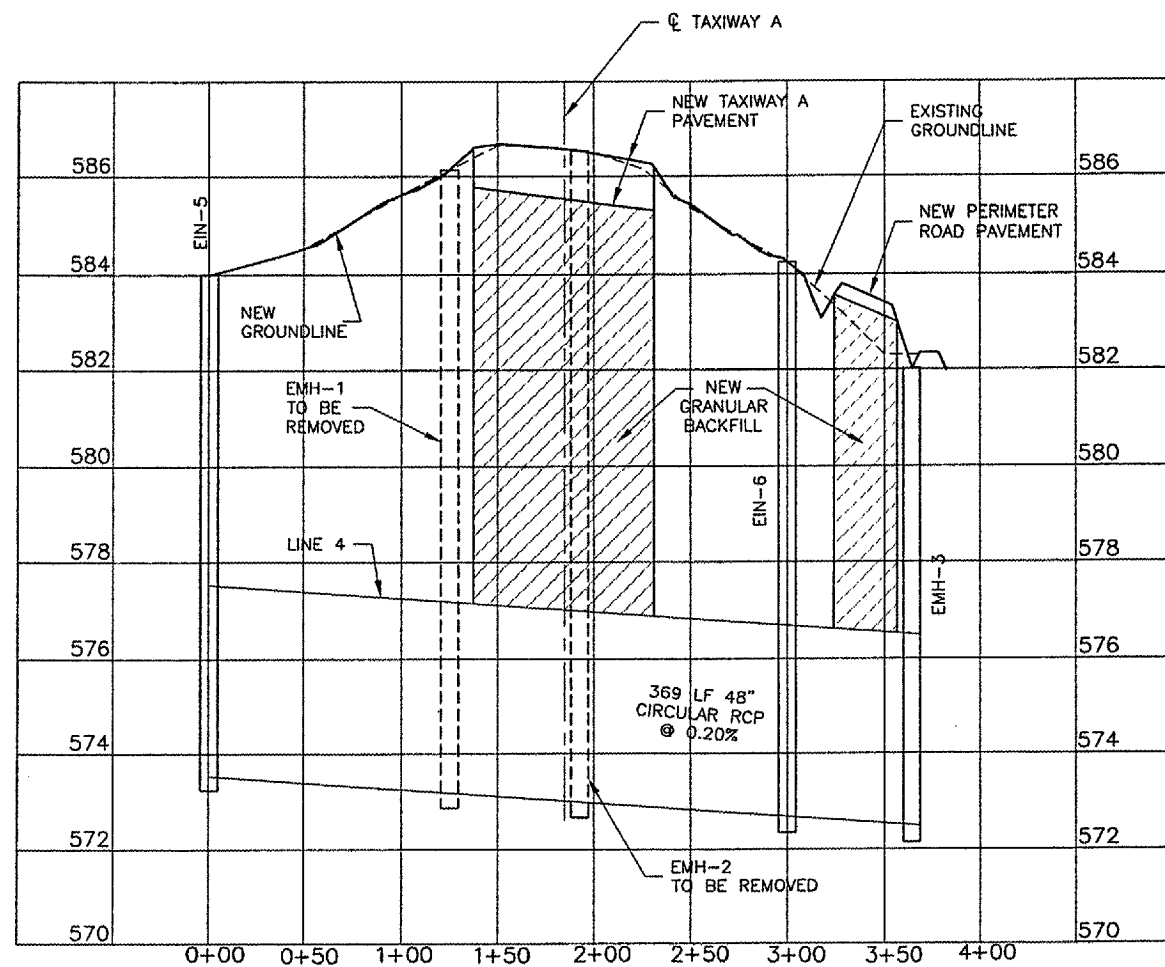
Structure	Alignment	Station	Offset	Northing	Easting	Rim	Invert 1	Invert 2	Upstream Pipe Run	Downstream Pipe Run
EIN-12	Taxiway G	24+46.16	143.50 R	1160877.8	2436368.79	591.45	588.32	588.17	Line 11	
EIN-13	Taxiway G	24+47.10	154.17 L	1161100.67	2436566.11	590.43	586.41			Line 11

- LEGEND**
- Existing Underdrain
  - New Underdrain
  - Existing Storm Sewer
  - New Storm Sewer
  - Existing Cleanout
  - CO-2 New Cleanout
  - CS-6 New Collection Structure
  - EIN-2 Existing Inlet
  - IN-2 New Inlet
  - ⊙ Existing Manhole

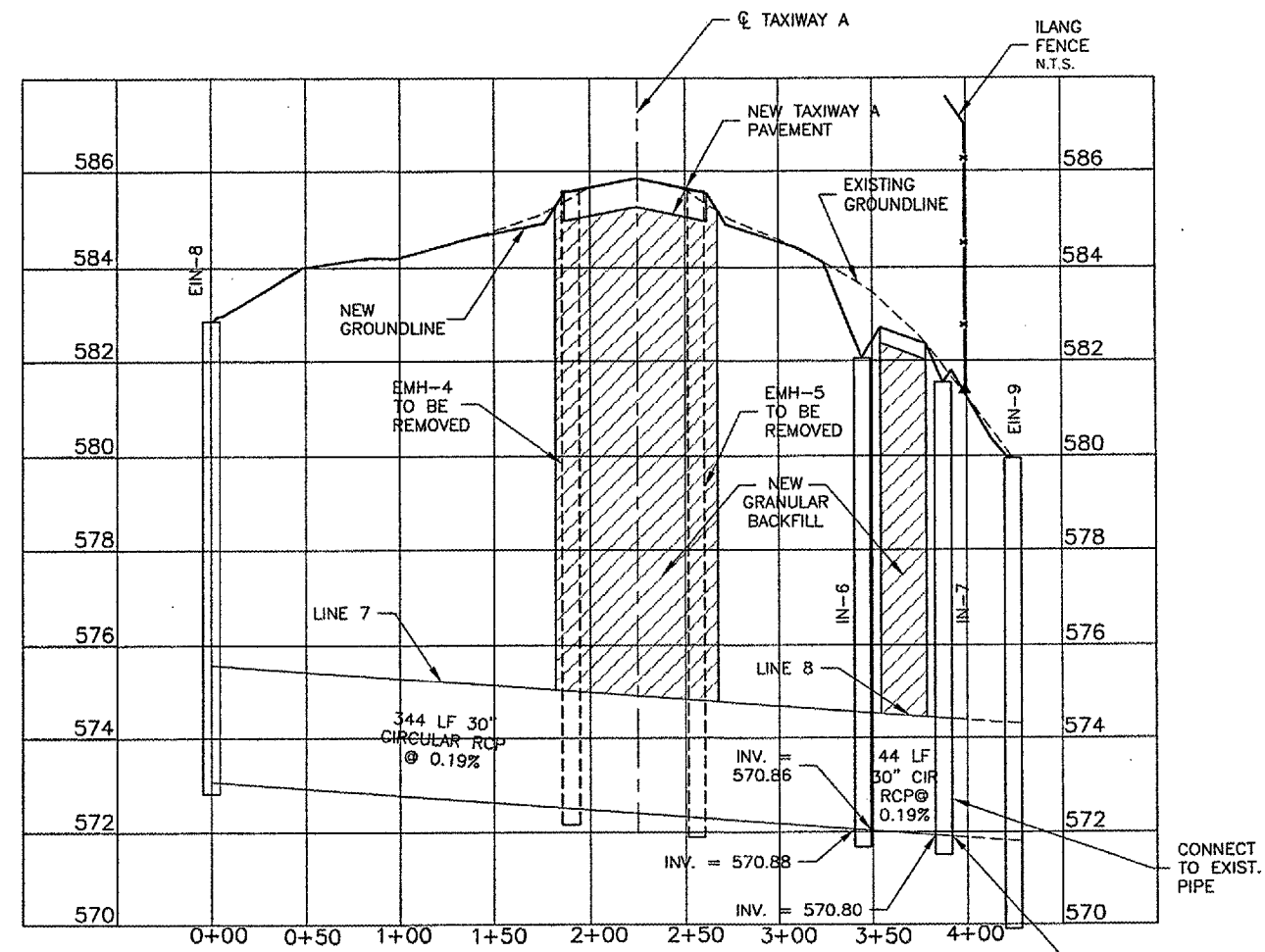


REVISIONS		
NUMBER	BY	DATE

0 1 2  
 THIS BAR IS EQUAL TO 2'  
 AT FULL SCALE (34X22).



STORM SEWER PROFILE LINE 4  
 EIN-5 TO EIN-6 AND EIN-6 TO EMH-3



STORM SEWER PROFILE LINE 7 & 8  
 EIN-8 TO IN-6 AND IN-6 TO IN-7 AND IN-7 TO EIN-9

NOTE:  
 1. EXISTING PIPE REMOVAL NOT SHOWN



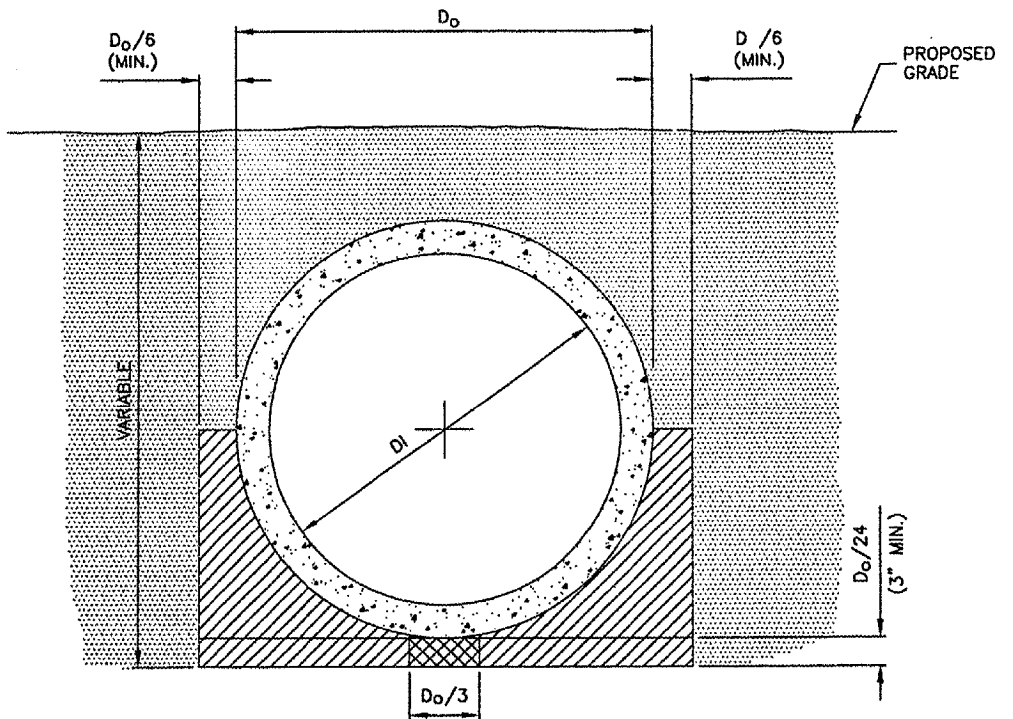
SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 STORM SEWER PROFILES

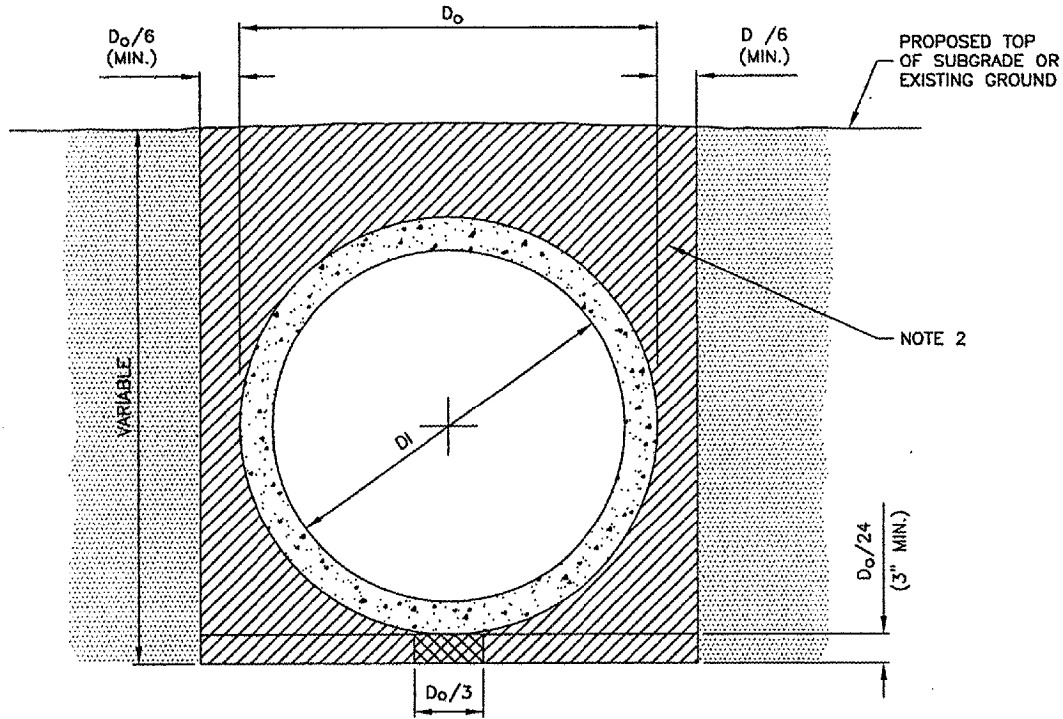
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DESIGN BY: CBG  
 DRAWN BY: DPA  
 CHECKED BY: *RLV*  
 APPROVED BY: *RLV*  
 DATE: 1/23/06  
 JOB No: 0503507  
 IL PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44  
 SHEET 41 OF 83 SHEETS



STANDARD TRENCH INSTALLATION  
 NON-PAVED AREA  
 N.T.S.



STANDARD TRENCH INSTALLATION  
 PROPOSED PAVED AREAS  
 N.T.S.

**LEGEND**

- DRAINAGE CONDUIT MATERIAL-CONCRETE
- MIDDLE BEDDING LOOSELY PLACED UNCOMPACTED BEDDING
- HAUNCH AND OUTER BEDDING COMPACTION- TO ENGINEER'S SATISFACTION OR 95% STANDARD PROCTOR
- LOWER SIDE AND OVERFILL COMPACTION- SAME AS EMBANKMENT REQUIREMENTS

$D_0$  PIPE OUTSIDE DIAMETER  
 $D_1$  PIPE INSIDE DIAMETER

- NOTES**
- BEDDING SHOWN IS IN ACCORDANCE WITH "STANDARD EMBANKMENT INSTALLATIONS", STANDARD INSTALLATION & BEDDING FACTORS FOR THE INDIRECT DESIGN METHOD (DESIGN DATA 40), AMERICAN CONCRETE PIPE ASSOCIATION.
  - BACKFILL TO EXTEND 3' BEYOND EDGES OF PROPOSED PAVEMENT.

**REVISIONS**

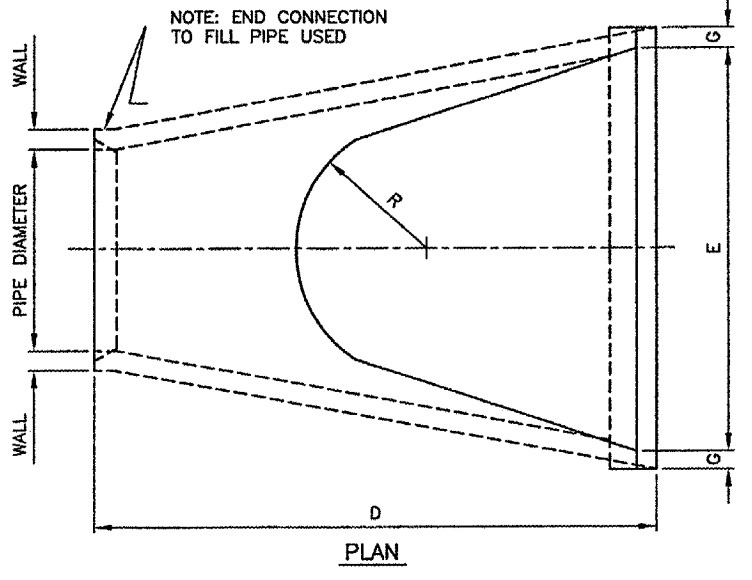
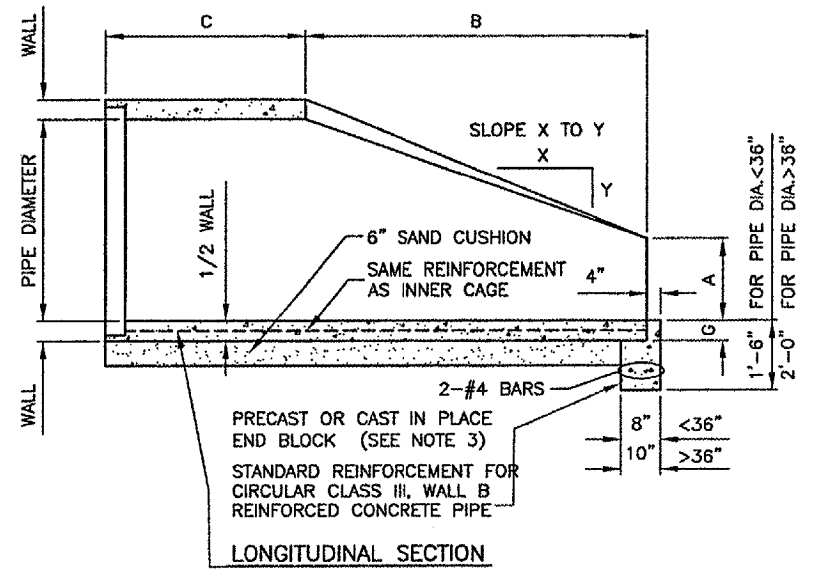
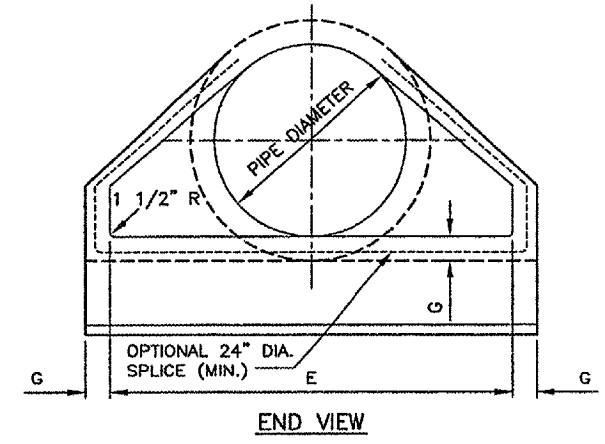
NUMBER	BY	DATE

0 1 2  
 THIS BAR IS EQUAL TO 2" AT FULL SCALE (3/4X22).

**DIMENSIONS - TABLE 1**

PIPE DIA.	APPROX WT.(lbs.)	WALL	A	B	C	D	E	G	R	SLOPE
12"	530	2"	4"	2'-0"	4'-0 7/8"	6'-0 7/8"	2'-0"	2"	9"	3:1
15"	740	2 1/4"	6"	2'-3"	3'-10"	6'-1"	2'-6"	2 1/4"	11"	3:1
18"	990	2 1/2"	9"	2'-3"	3'-10"	6'-1"	3'-0"	2 1/2"	12"	3:1
21"	1280	2 3/4"	9"	2'-11"	3'-2"	6'-1"	3'-6"	2 3/4"	13"	3:1
24"	1520	3"	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"	3"	14"	3:1
27"	1930	3 1/4"	10 1/2"	4'-0"	2'-1 1/2"	6'-1 1/2"	4'-6"	3 1/4"	14 1/2"	3:1
30"	2190	3 1/2"	1'-0"	4'-6"	1'-7 3/4"	6'-1 3/4"	5'-0"	3 1/2"	15"	3:1
33"	3200	3 3/4"	1-1 1/2"	4'-10 1/2"	3'-3 1/4"	8'-1 3/4"	5'-6"	3 3/4"	17 1/2"	3:1
36"	4100	4"	1'-3"	5'-3"	2'-11"	8'-2"	6'-0"	4"	20"	3:1
42"	5380	4 1/2"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	4 1/2"	22"	3:1
48"	6550	5"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	5"	22"	3:1
54"	8240	5 1/2"	2'-3"	5'-5"	2'-11"	8'-4"	7'-6"	5 1/2"	24"	2.4:1
60"	8730	6"	2'-11"	5'-0"	3'-3"	8'-3"	8'-0"	5"	*	2:1
66"	10710	6 1/2"	2'-6"	6'-0"	2'-3"	8'-3"	8'-6"	5 1/2"	*	2:1
72"	12520	7"	3'-0"	6'-6"	1'-9"	8'-3"	9'-0"	6"	*	1.86:1
78"	14770	7 1/2"	3'-0"	7'-6"	1'-9"	9'-3"	9'-6"	6 1/2"	*	1.82:1
84"	18160	8"	3'-0"	7'-6 1/2"	1'-9"	9'-3 1/2"	10'-0"	6 1/2"	*	1.5:1

\* RADIUS AS FURNISHED BY MANUFACTURER.



PRECAST REINFORCED CONCRETE FLARED END SECTION  
 (I.D.O.T. STD. NO. 542301)  
 N.T.S.

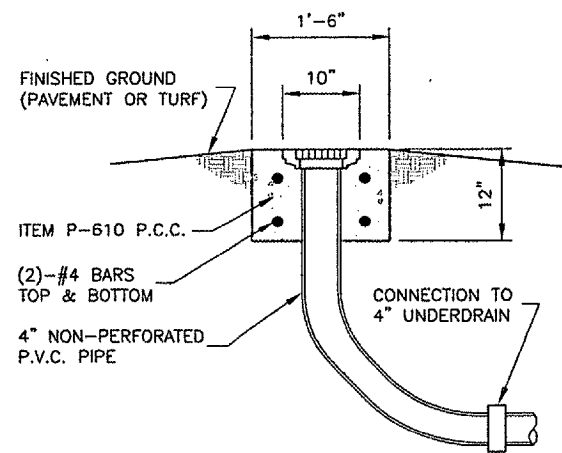
- NOTES**
- PRECAST CONCRETE FLARED END SECTIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-170 CLASS III, WALL B REINFORCED CONCRETE PIPE.
  - PRECAST CONCRETE FLARED END SECTION FOR PIPE DIAMETER REQUIRED SHALL BE AS INDICATED ON DETAIL PLAN FOR EACH INDIVIDUAL INSTALLATION.
  - THE END BLOCK SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE FLARED END SECTION. THE END BLOCK SHALL BE BACKFILLED IN ACCORDANCE WITH ITEM 701.

**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

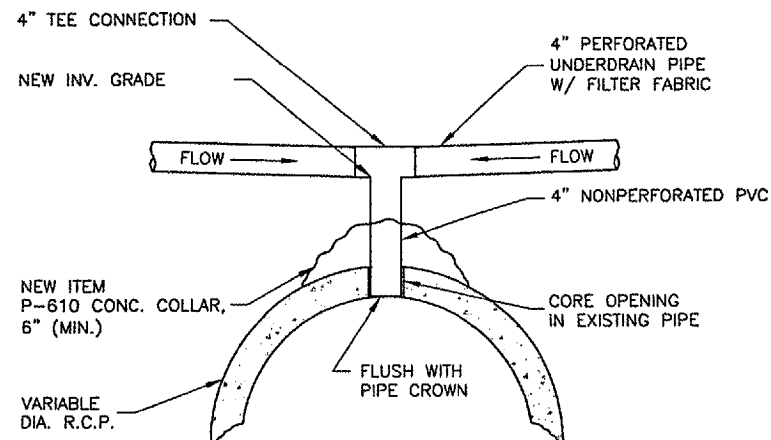
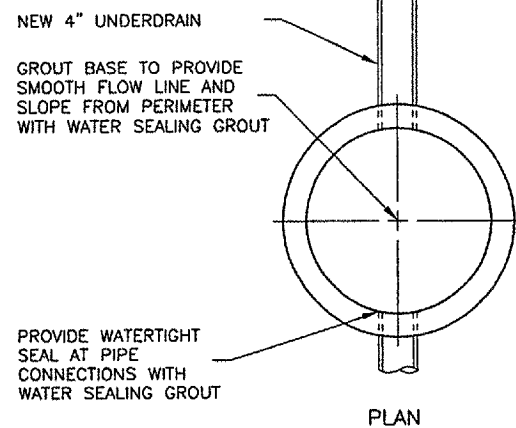
**WIDEN TAXWAY A - CONSTRUCT PERIMETER ROAD**  
**DRAINAGE DETAILS**

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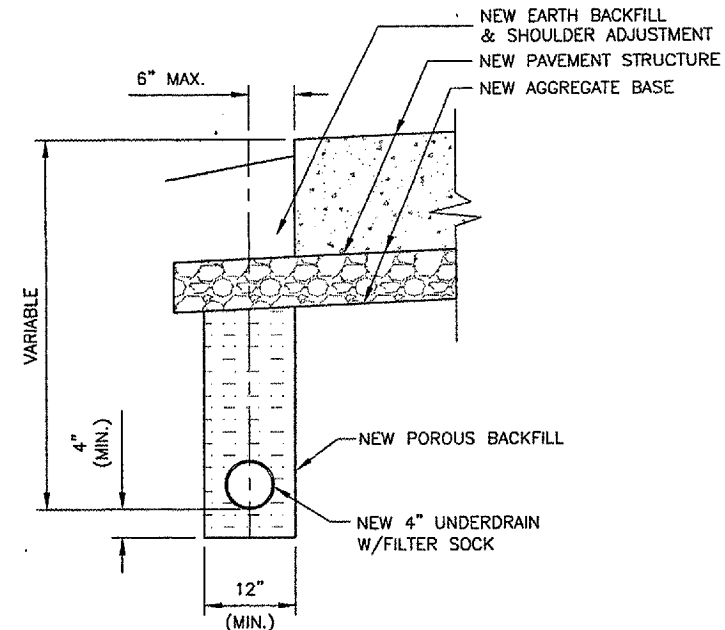
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 DRAWN BY: DPA  
 CHECKED BY: *RLW*  
 APPROVED BY: *RLW*  
 DATE: 1/23/06  
 JOB No: 0503507  
 IL PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44



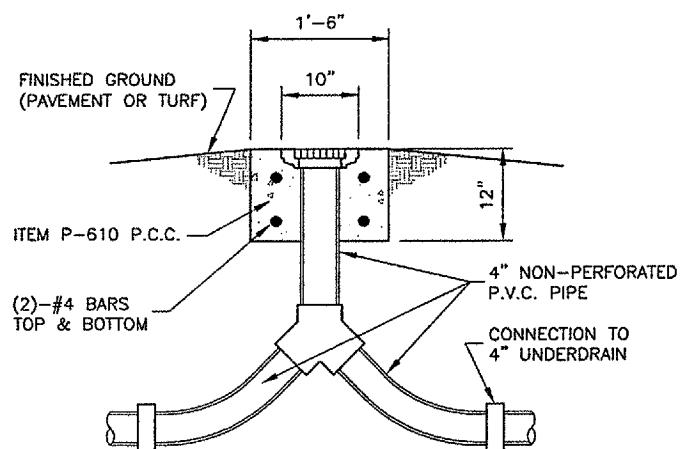
**UNDERDRAIN CLEAN-OUT DETAIL - TYPE 1**  
 N.T.S.



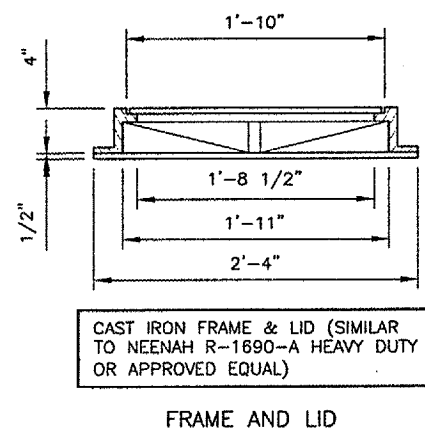
**UNDERDRAIN DIRECT TOP CONNECTION DETAIL**  
 N.T.S.



**TYPICAL UNDERDRAIN DETAIL  
 PAVEMENT EDGE**  
 N.T.S.

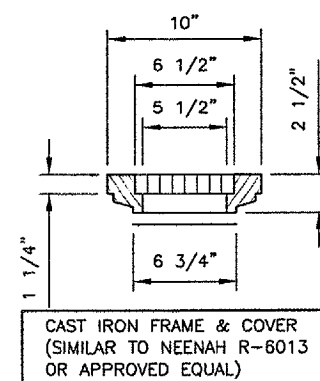


**UNDERDRAIN CLEAN-OUT DETAIL - TYPE 2**  
 N.T.S.



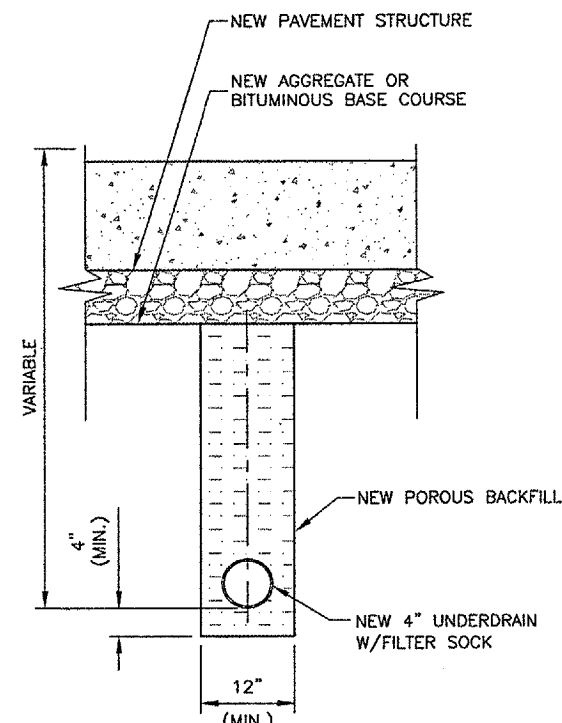
CAST IRON FRAME & LID (SIMILAR TO NEENAH R-1690-A HEAVY DUTY OR APPROVED EQUAL)

**FRAME AND LID**

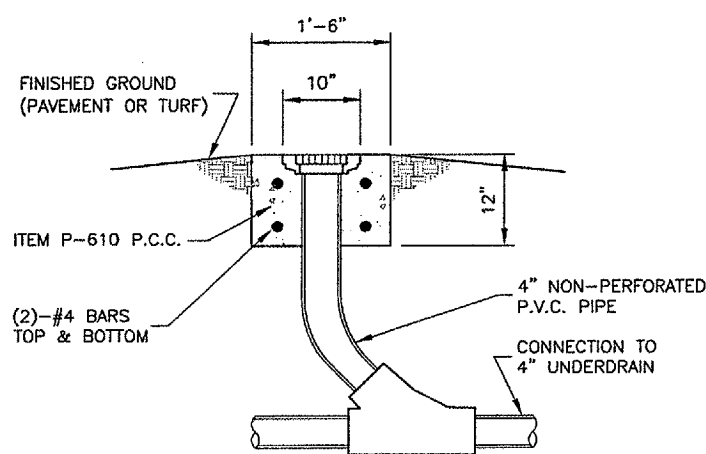


CAST IRON FRAME & COVER (SIMILAR TO NEENAH R-6013 OR APPROVED EQUAL)

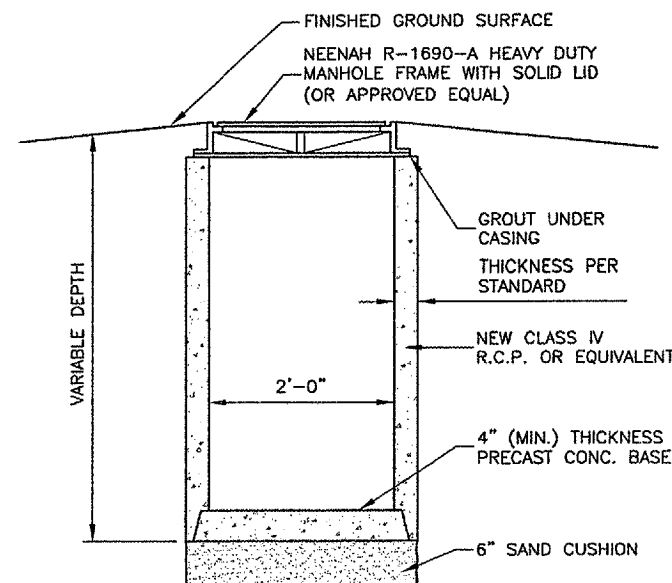
**FRAME AND COVER**



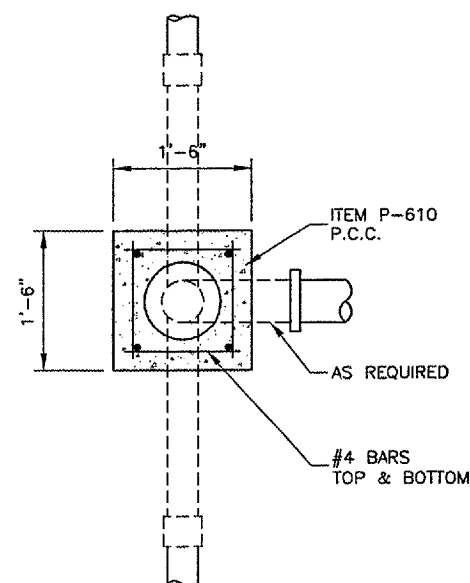
**TYPICAL UNDERDRAIN DETAIL  
 BELOW PAVEMENT**  
 N.T.S.



**UNDERDRAIN CLEAN-OUT DETAIL - TYPE 3**  
 N.T.S.



**UNDERDRAIN COLLECTION STRUCTURE DETAIL**  
 N.T.S.



**UNDERDRAIN CLEAN-OUT DETAILS**  
 N.T.S.

**NOTES**

DURING UNDERDRAIN CONSTRUCTION, CARE SHALL BE TAKEN TO ENSURE GOOD DRAINAGE BETWEEN THE SUB-BASE AND THE POROUS BACKFILL MATERIAL WHICH WILL AFFECT DRAINAGE TO THE UNDERDRAIN SHALL BE REMOVED PRIOR TO THE PLACEMENT OF PROPOSED POROUS BACKFILL. ALL COST FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL.

REVISIONS		
NUMBER	BY	DATE

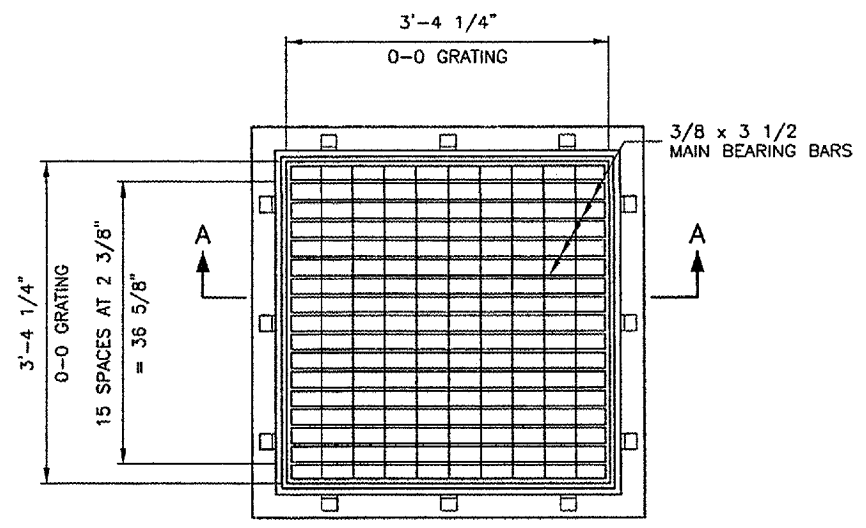
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 THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

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**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

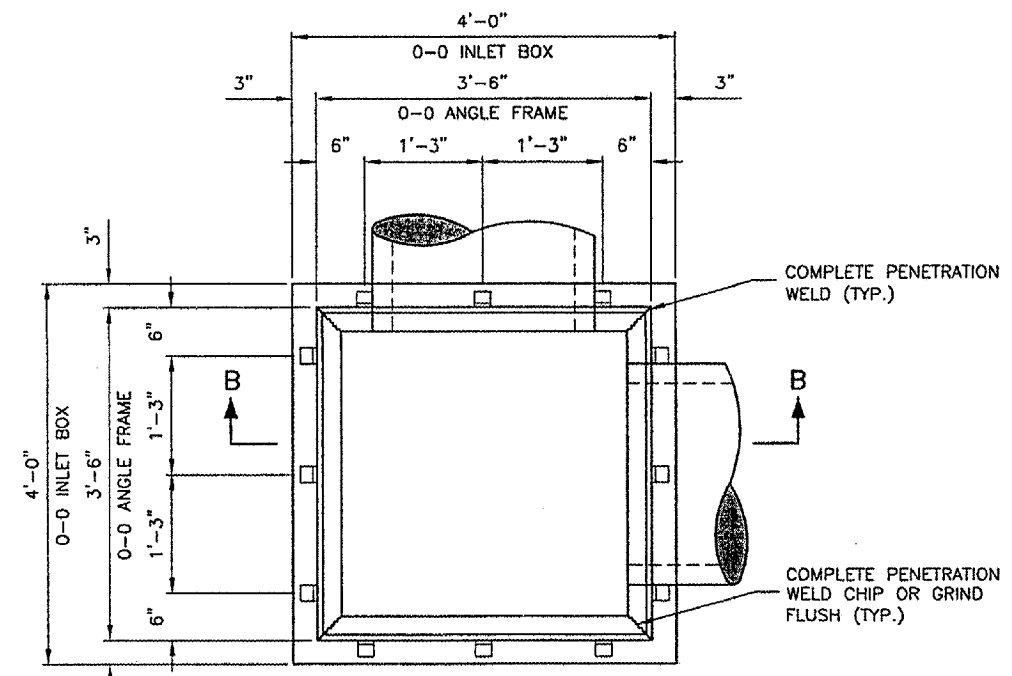
**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**UNDERDRAIN DETAILS**

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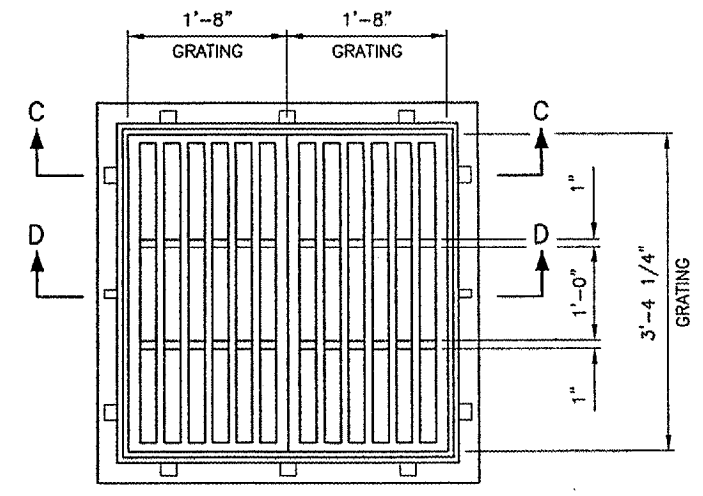
DESIGN BY: RLV  
 DRAWN BY: DPA  
 CHECKED BY: *RLV*  
 APPROVED BY: *RLV*  
 DATE: 1/23/06  
 JOB No: 0503507  
 IL PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44  
 SHEET 43 OF 83 SHEETS



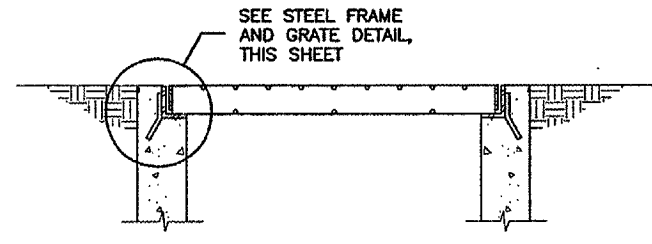
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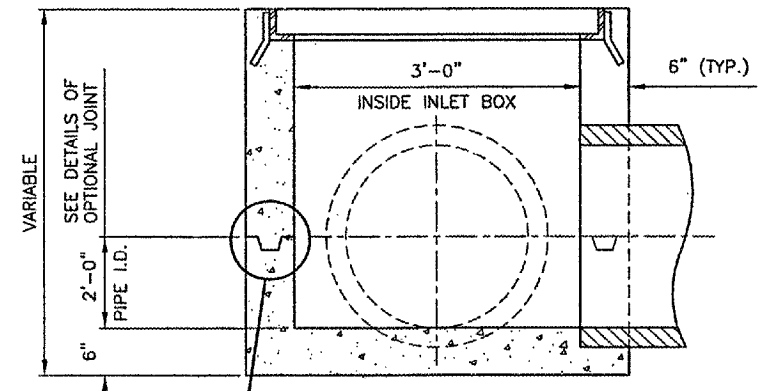
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 PLAN  
 N.T.S.



PLAN  
 N.T.S.

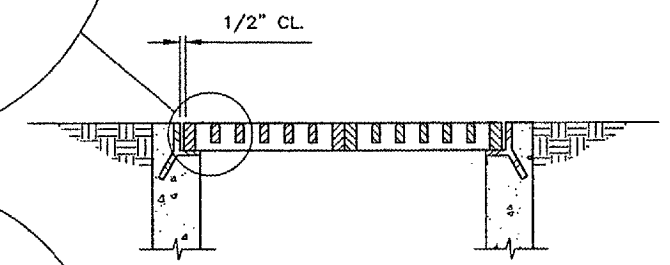
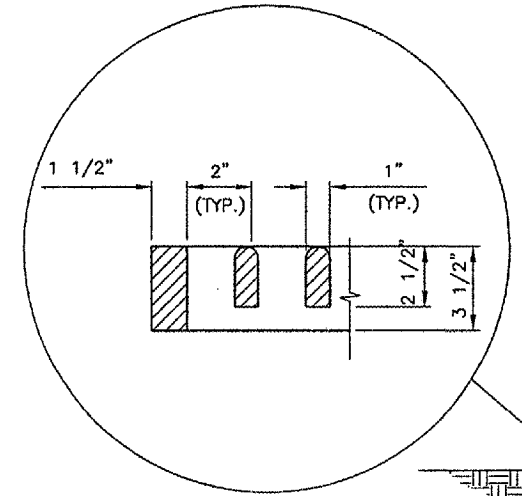


SECTION A-A  
 N.T.S.

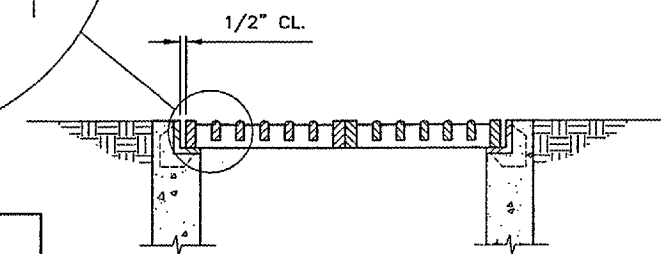
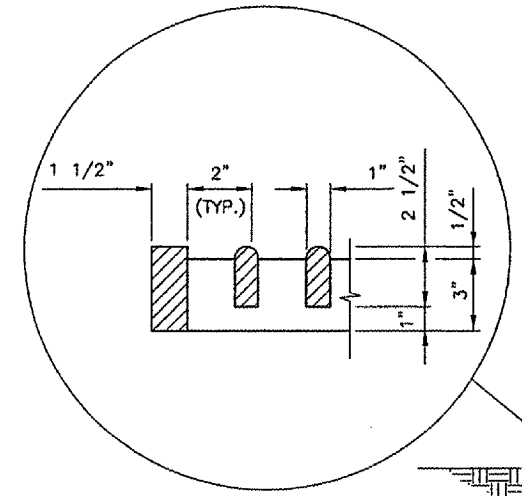


SECTION B-B  
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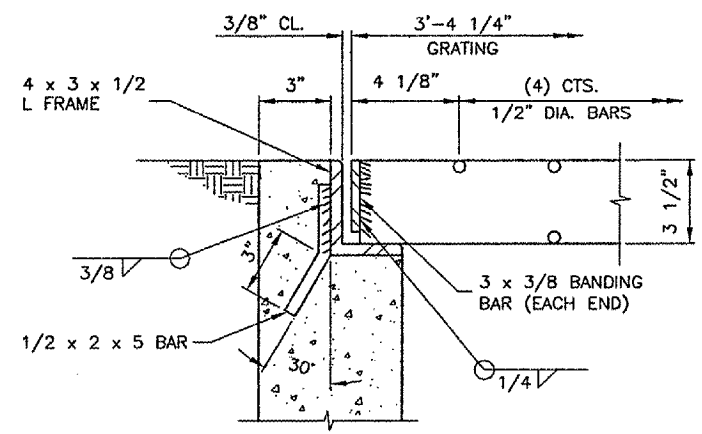
SEE OPTIONAL JOINT DETAIL, THIS SHEET



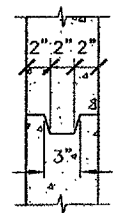
SECTION C-C  
 N.T.S.



SECTION D-D  
 CAST FRAME AND GRATE DETAIL  
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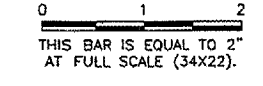
STEEL FRAME AND GRATE DETAIL  
 N.T.S.



OPTIONAL JOINT DETAIL  
 N.T.S.

NOTE:  
 INLET IS AN IDOT STD. 542546, FLUSH INLET BOX FOR MEDIAN. FRAME & GRATES ARE NEENAH R-3807 OR APPROVED EQUAL.

REVISIONS		
NUMBER	BY	DATE



SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 INLET DETAILS

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 CHECKED BY: *RLV*  
 APPROVED BY: *RLV*  
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 JOB No: 0503507  
 I.L. PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44

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NUMBER	BY	DATE

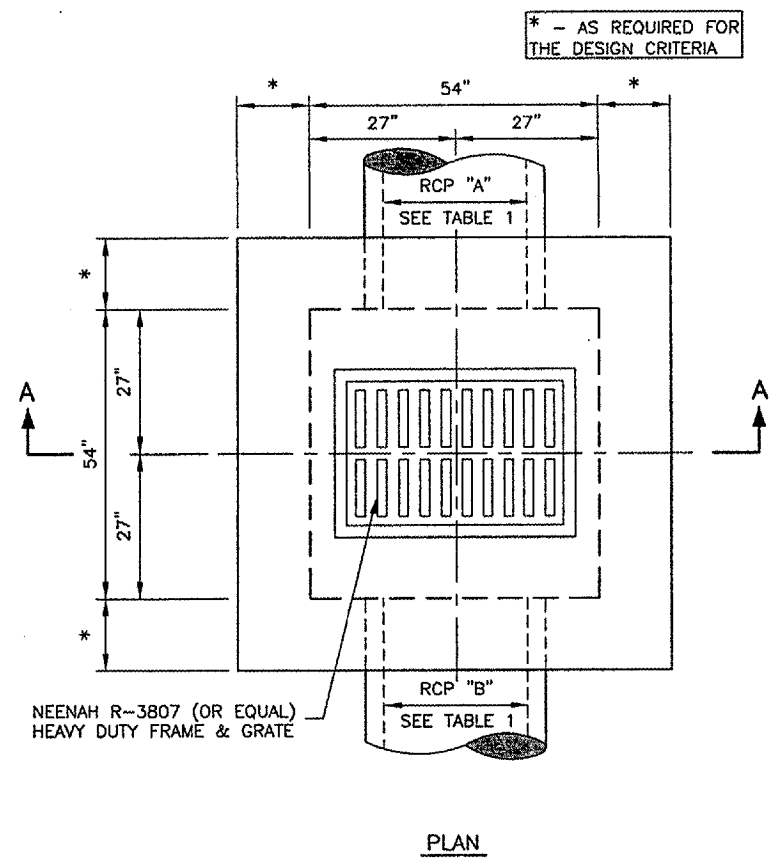
0 1 2  
 THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

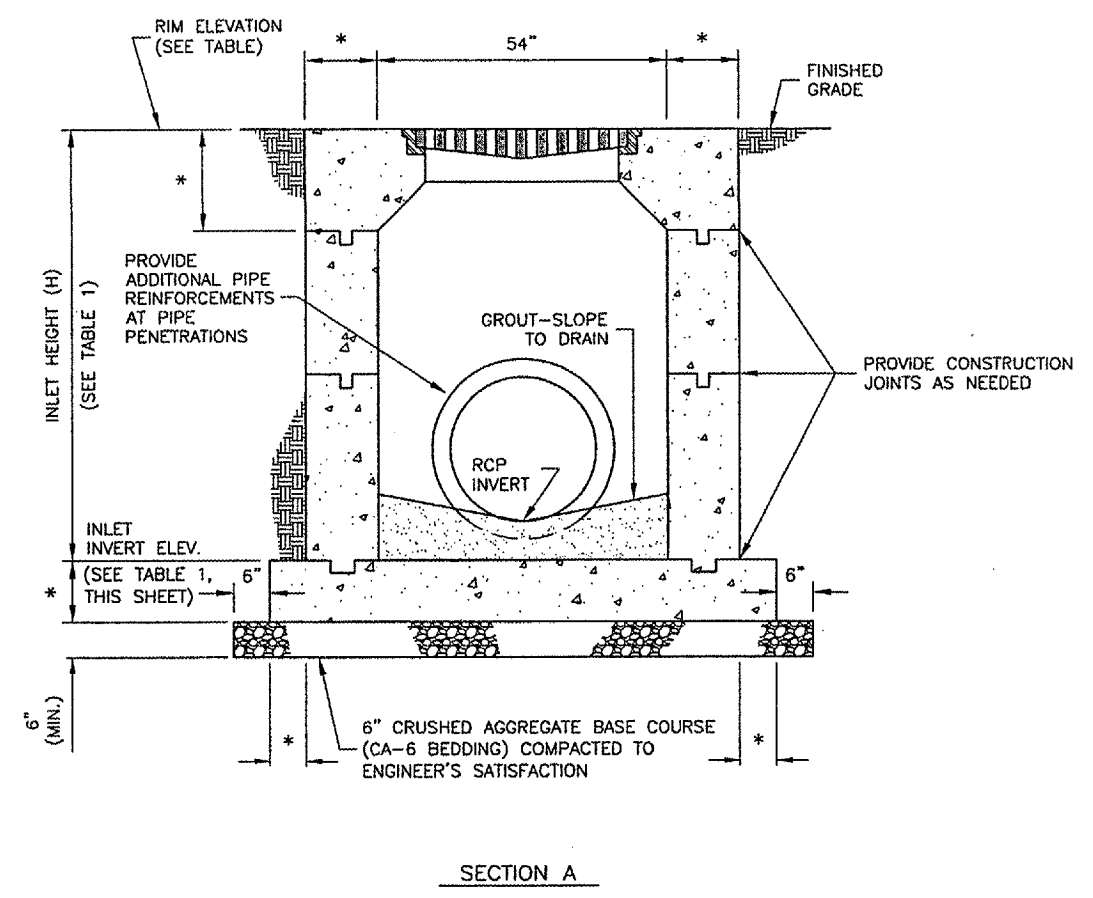
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**INLET SPECIAL DETAILS**

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 CHECKED BY: *RLV*  
 APPROVED BY: *RLV*  
 DATE: 1/23/06  
 JOB No: 0503507  
 ILL. PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44  
 SHEET 45 OF 83 SHEETS

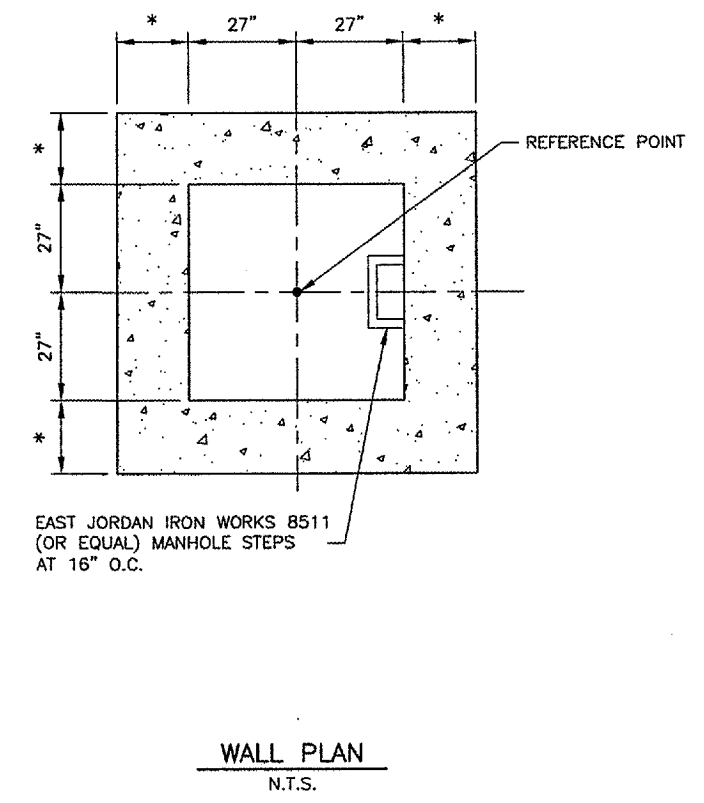


PLAN



SECTION A

INLET DETAILS  
 N.T.S.



WALL PLAN  
 N.T.S.

**DESIGN CRITERIA**

1. THE INLET SHALL BE CONSTRUCTED TO MEET OR EXCEED THE FOLLOWING LOADINGS:

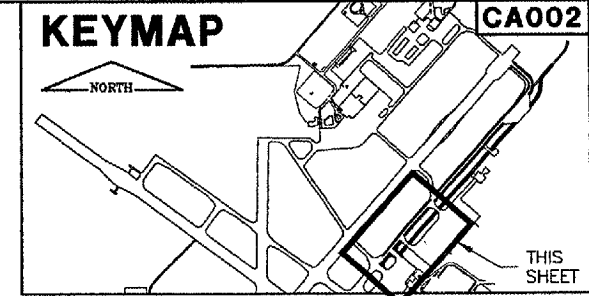
A. EARTHLOAD = 2 FT. FILL AT 130 LBS./FT.<sup>3</sup>  
 B. SURCHARGE = 2 FT. FILL AT 130 LBS./FT.<sup>3</sup>  
 C. LIVE LOAD = A.A.S.H.T.O. HS-20 TRUCK WITH 20% IMPACT  
 D.  $f'_c = 4,500$  P.S.I.  
 E.  $f_y = 60,000$  P.S.I.  
 F. ULTIMATE STRENGTH DESIGN METHOD

THE SUPPLIER SHALL PROVIDE CERTIFICATION THAT THE INLETS MEET OR EXCEED THESE REQUIREMENTS PRIOR TO INSTALLATION.

INLET	IN-6	IN-7
STA. OFFSET	2177+00 22' RT.	2177+00 22' LT.
RIM ELEVATION	580.5	580.0
RCP DIA. "A"	30" RCP	30" RCP
RCP DIA. "B"	30" RCP	30" RCP
RCP INVERT "A"	570.86	570.78
RCP INVERT "B"	570.88	570.80
INLET INVERT	570.37	570.27
INLET HEIGHT (H)	122"	117"

**GENERAL NOTES**

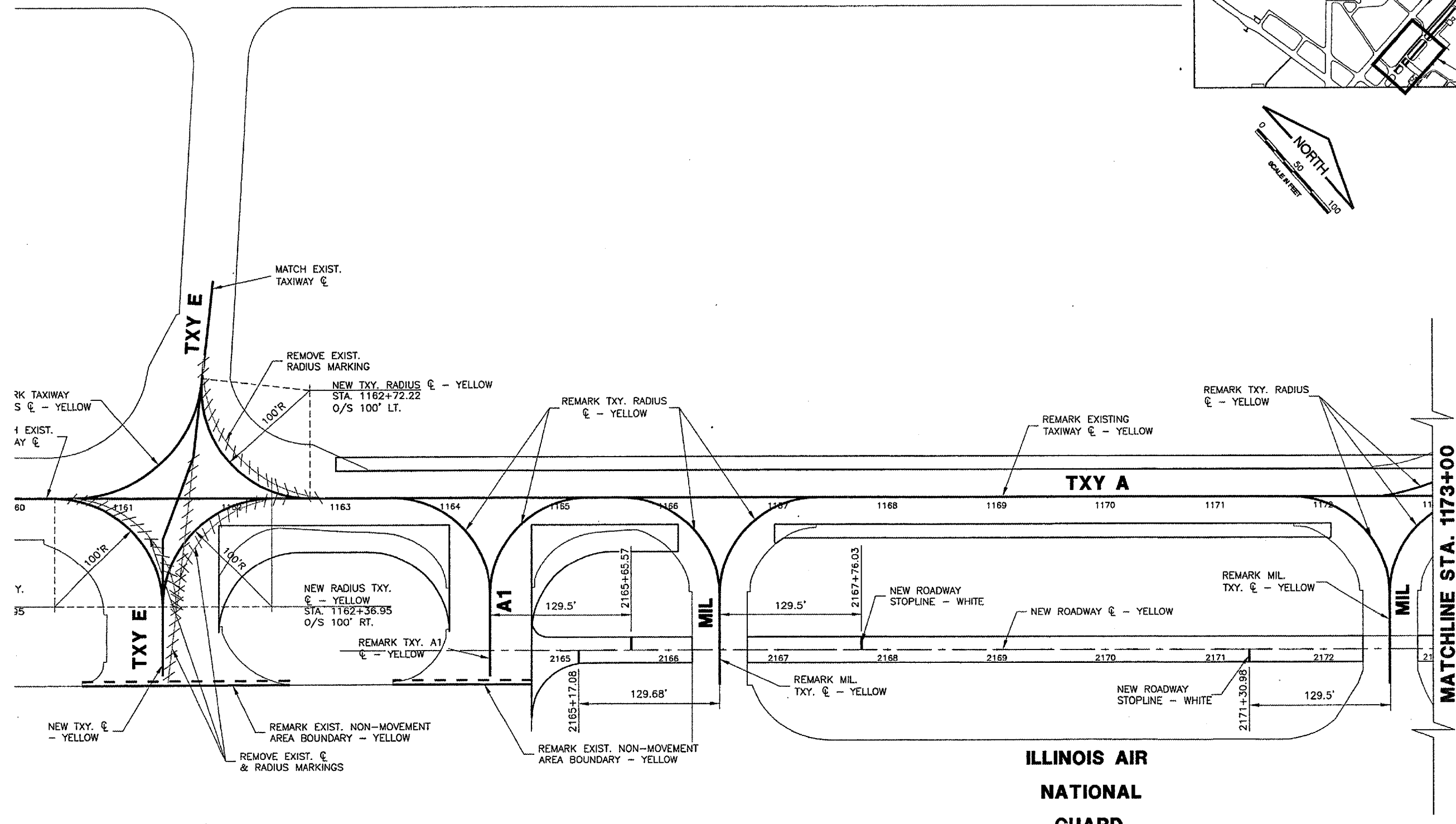
- ALL REINFORCEMENT BARS SHALL CONFORM TO ASTM A615 GRADE 60 AND SHALL BE CLEAN AND FREE OF GREASE, SCALING RUST, AND OTHER FOREIGN MATERIALS.
- INLET MAY BE CONSTRUCTED BY CAST-IN-PLACE CONCRETE OR PRE-CAST CONCRETE.
- CAST-IN-PLACE CONCRETE AND PRE-CAST CONCRETE FOR THE INLETS SHALL HAVE A MINIMUM 14 DAYS COMPRESSIVE STRENGTH OF 3500 P.S.I.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF PIPE OPENINGS WITH TABLE 1, THIS SHEET.
- ALL FOOTING EXCAVATIONS SHALL BE CLEAN FREE OF DEBRIS, STANDING WATER AND LOOSE FOIL AND SHALL BE INSPECTED BY THE ENGINEER PRIOR TO THE PLACEMENT OF CONCRETE OR SUBBASE.
- CONCRETE SHALL NOT BE PLACED OVER FROZEN OR MUDDY SOIL.
- DIMENSIONS SHOWN ARE MINIMUMS.



CA002  
 K:\SpringfieldAp\0503507\Draw\Sheets  
 FILE: 46\_MARK01.dwg  
 UPDATE BY: Dave Allen  
 PLOT DATE: 2/7/2006 9:38 AM  
 BASE\_EXISTOPO  
 KEY  
 BASE\_PROPGED  
 tbinfo  
 BASE\_PROPMARK

REVISIONS		
NUMBER	BY	DATE

0 1 2  
 THIS BAR IS EQUAL TO 2"  
 AT FULL SCALE (34X22).



**ILLINOIS AIR  
 NATIONAL  
 GUARD**

**LEGEND**

	EXISTING PAVEMENT MARKING
	PAVEMENT MARKING REMOVAL
	NEW PAVEMENT MARKING

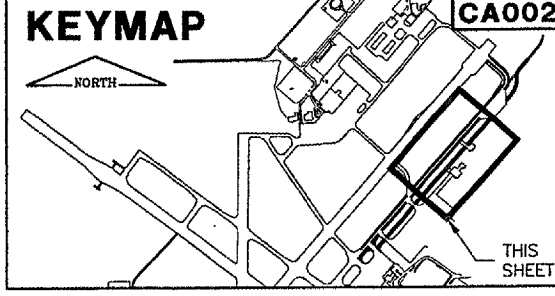
**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**MARKING PLAN 1**

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DESIGN BY: KLB  
 DRAWN BY: DPA  
 CHECKED BY: *REN*  
 APPROVED BY: *REN*  
 DATE: 1/23/06  
 JOB No: 0503507

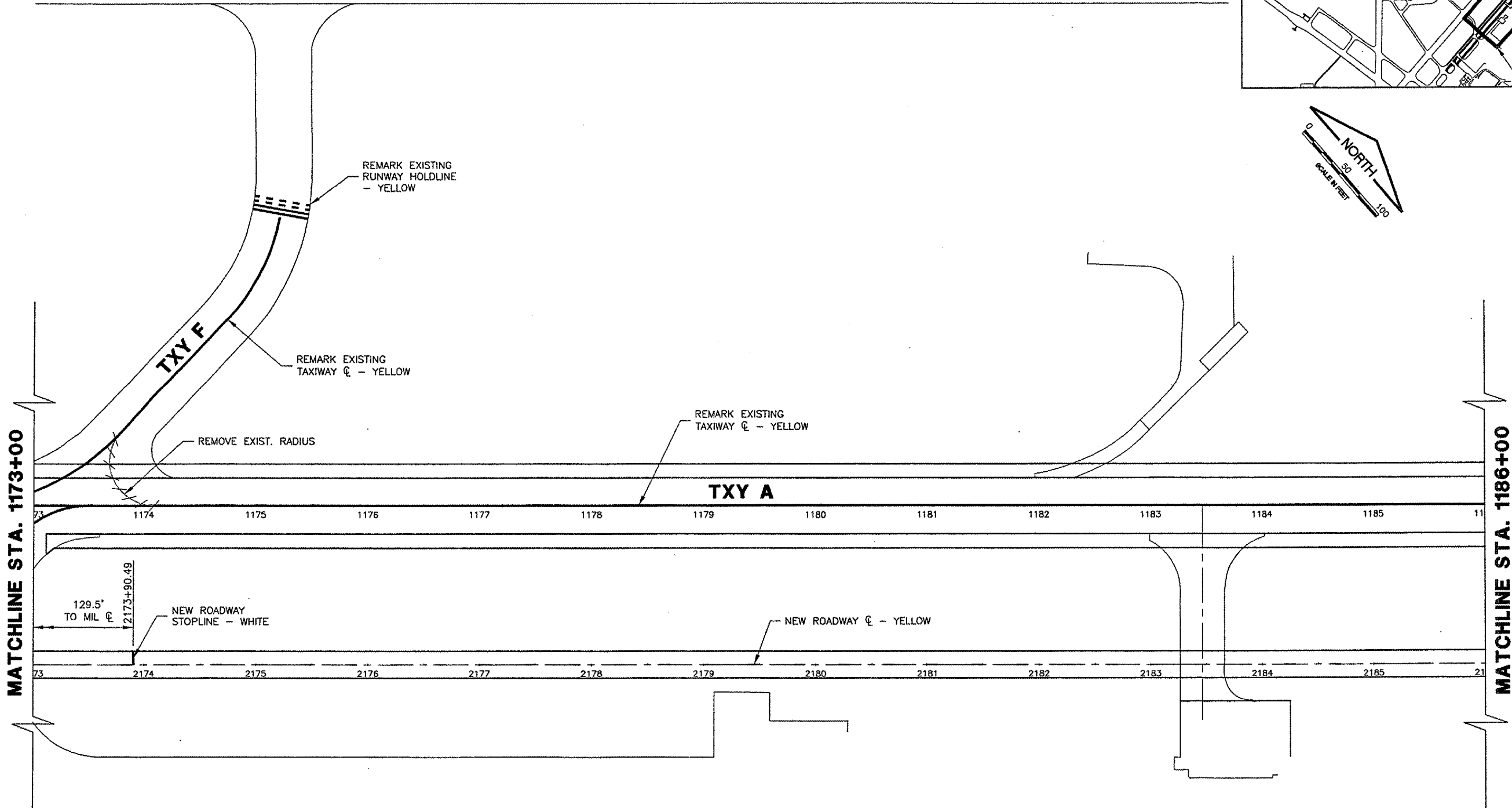
IL PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44



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 tbinfo  
 BASE\_PROPMARK

REVISIONS		
NUMBER	BY	DATE

0 1 2  
 THIS BAR IS EQUAL TO 2"  
 AT FULL SCALE (34X22).



**LEGEND**

	EXISTING PAVEMENT MARKING
	PAVEMENT MARKING REMOVAL
	NEW PAVEMENT MARKING

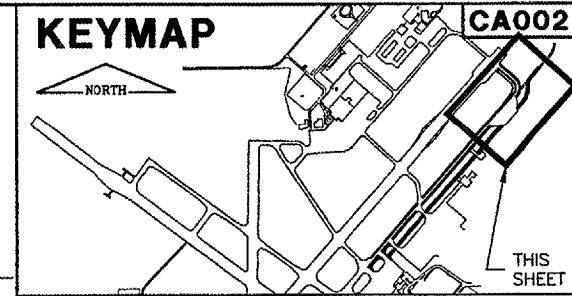


**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**MARKING PLAN 2**

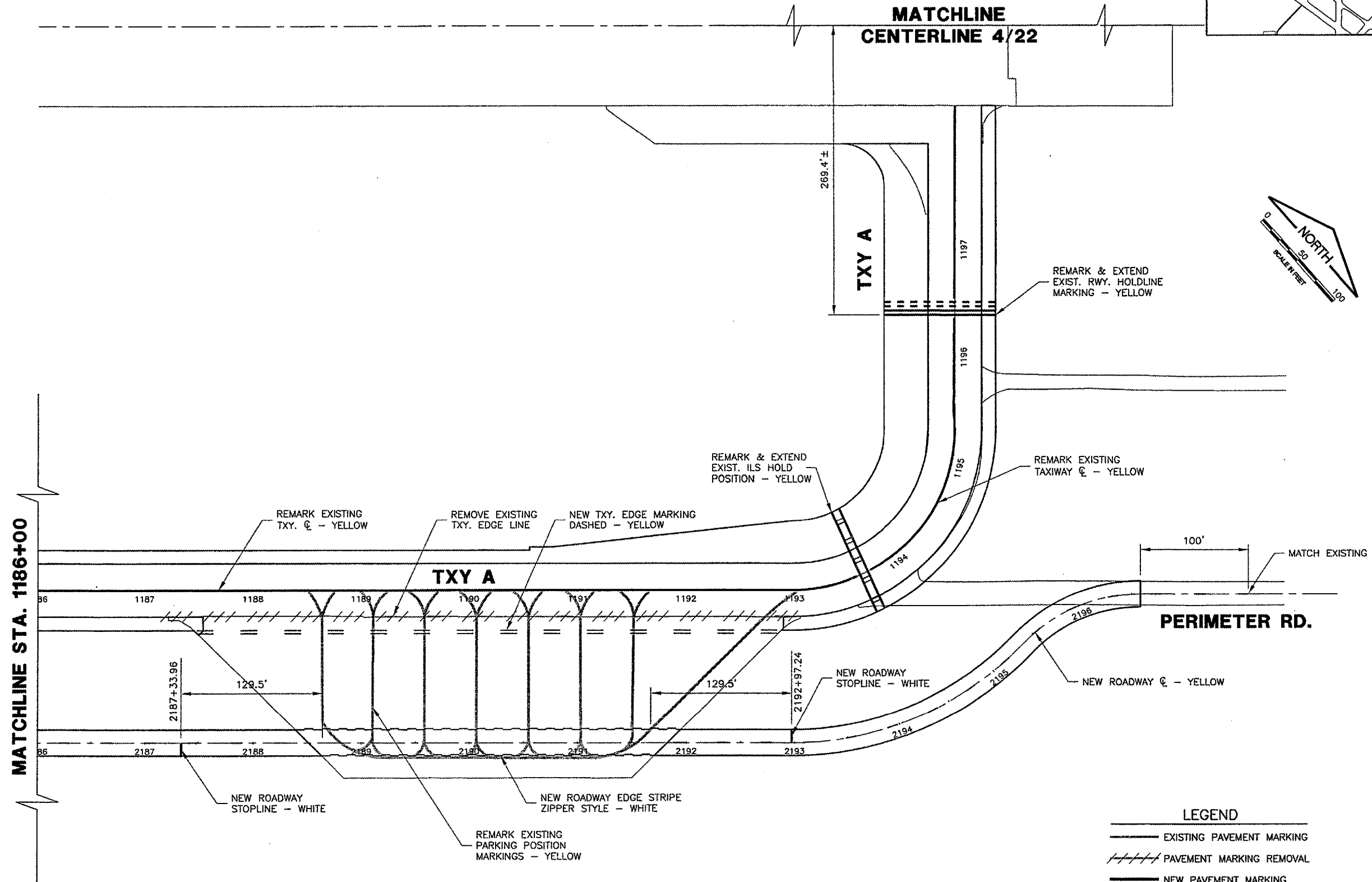
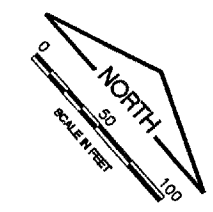
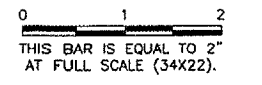
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DESIGN BY:	KLB
DRAWN BY:	DPA
CHECKED BY:	<i>RW</i>
APPROVED BY:	<i>RW</i>
DATE:	1/23/06
JOB No:	0503507
IL. PROJ. NO. SPI-3555 AIP PROJ. NO. 3-17-0096-44	
SHEET 47 OF 83 SHEETS	



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REVISIONS		
NUMBER	BY	DATE



**LEGEND**

	EXISTING PAVEMENT MARKING
	PAVEMENT MARKING REMOVAL
	NEW PAVEMENT MARKING



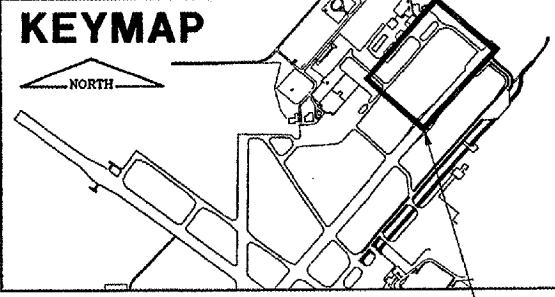
**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**MARKING PLAN 3**

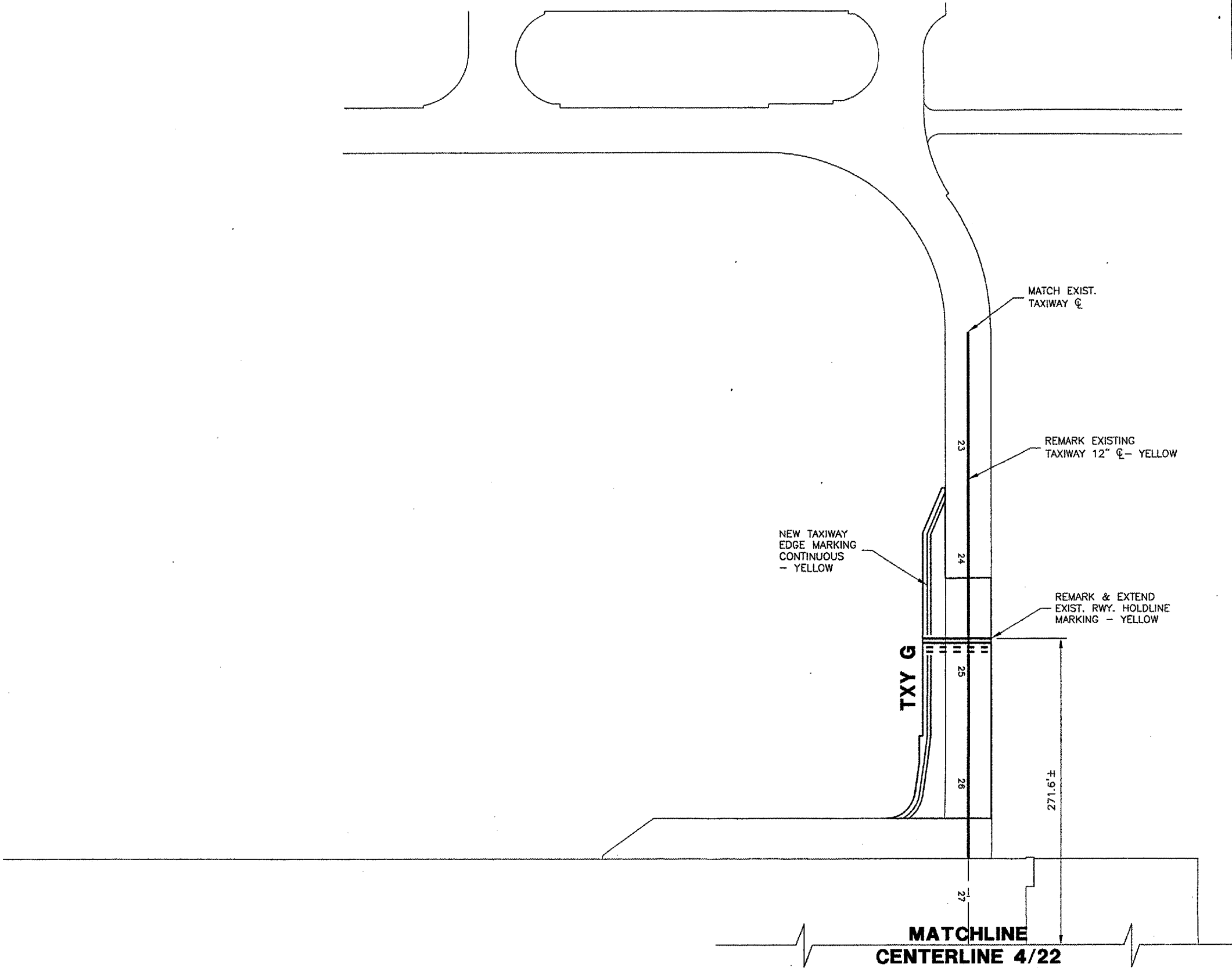
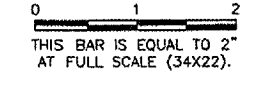
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DRAWN BY:	DPA
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APPROVED BY:	<i>RAJ</i>
DATE:	1/23/06
JOB No:	0503507
IL PROJ. NO.	SPI-3555
AIP PROJ. NO.	3-17-0096-44
SHEET	48 OF 83 SHEETS





REVISIONS		
NUMBER	BY	DATE



**LEGEND**

	EXISTING PAVEMENT MARKING
	PAVEMENT MARKING REMOVAL
	NEW PAVEMENT MARKING



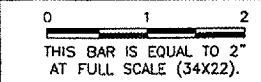
SPRINGFIELD AIRPORT AUTHORITY  
ABRAHAM LINCOLN CAPITAL AIRPORT  
SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
MARKING PLAN 4

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NUMBER	BY	DATE



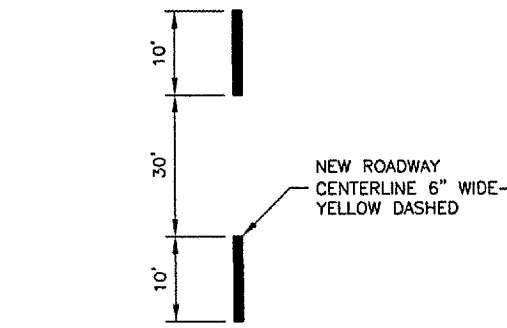
SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 MARKING DETAILS

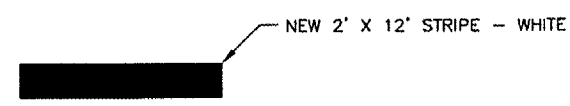
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JOB No:	0503507
IL PROJ. NO.	SPI-3555
AIP PROJ. NO.	3-17-0096-44
SHEET	50 OF 83 SHEETS

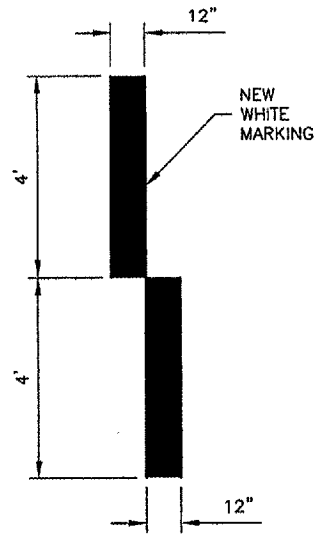
**NOTE:**  
 1. ALL NEW AIRFIELD MARKING SHALL HAVE REFLECTIVE BEADS & 6" BLACK BORDER



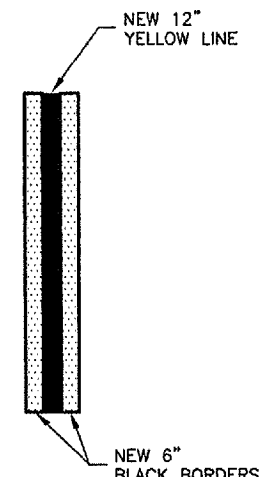
ROADWAY CENTERLINE - DASHED  
 N.T.S.



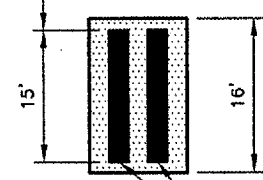
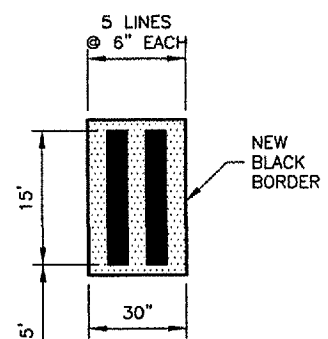
NEW ROADWAY STOPLINE  
 N.T.S.



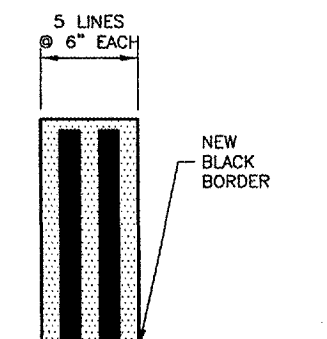
ROADWAY EDGE STRIPE - ZIPPER STYLE  
 N.T.S.



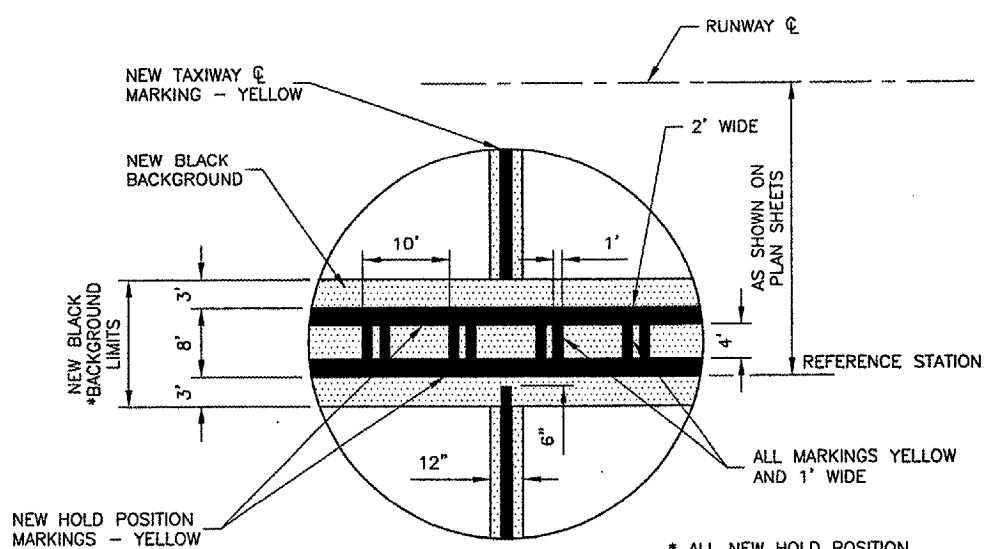
TAXIWAY CENTERLINE CONTINUOUS  
 N.T.S.



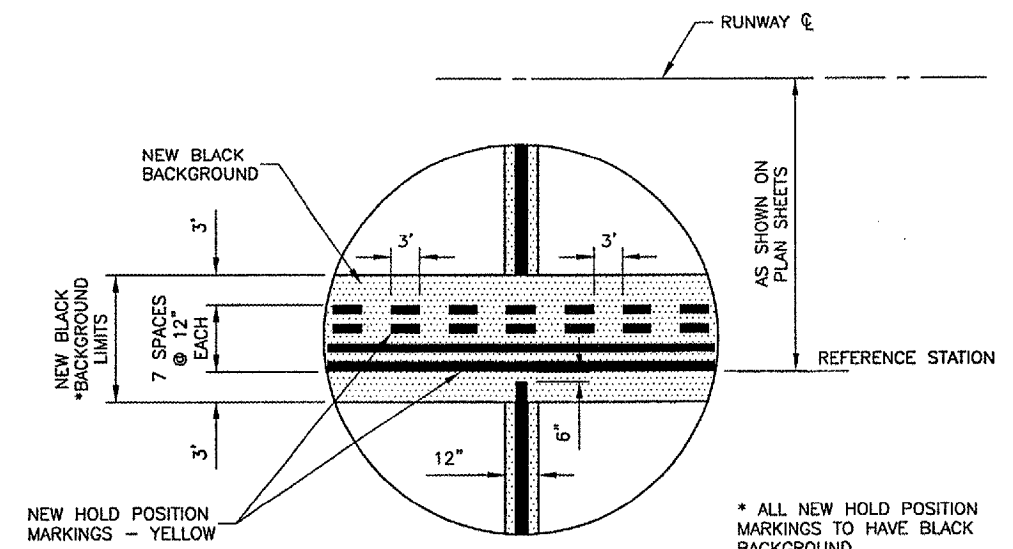
TAXIWAY EDGE MARKING DASHED  
 N.T.S.



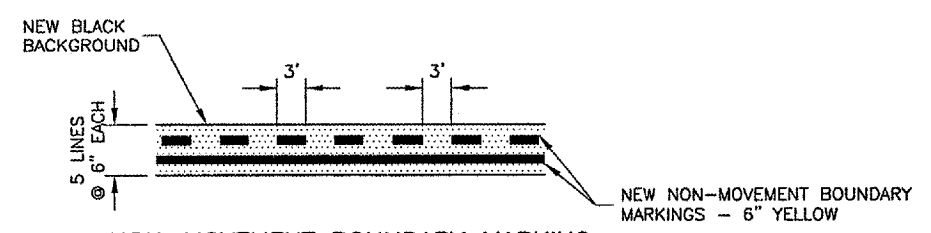
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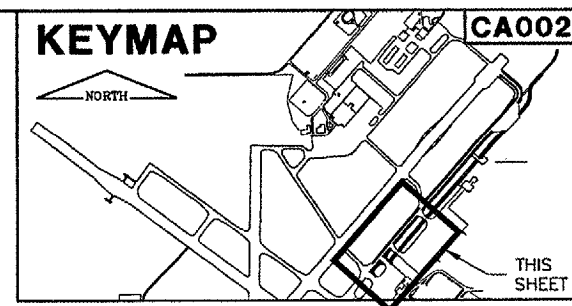
ILS HOLD POSITION MARKING DETAIL  
 N.T.S.



HOLD POSITION MARKING DETAIL  
 N.T.S.



NON-MOVEMENT BOUNDARY MARKING  
 N.T.S.



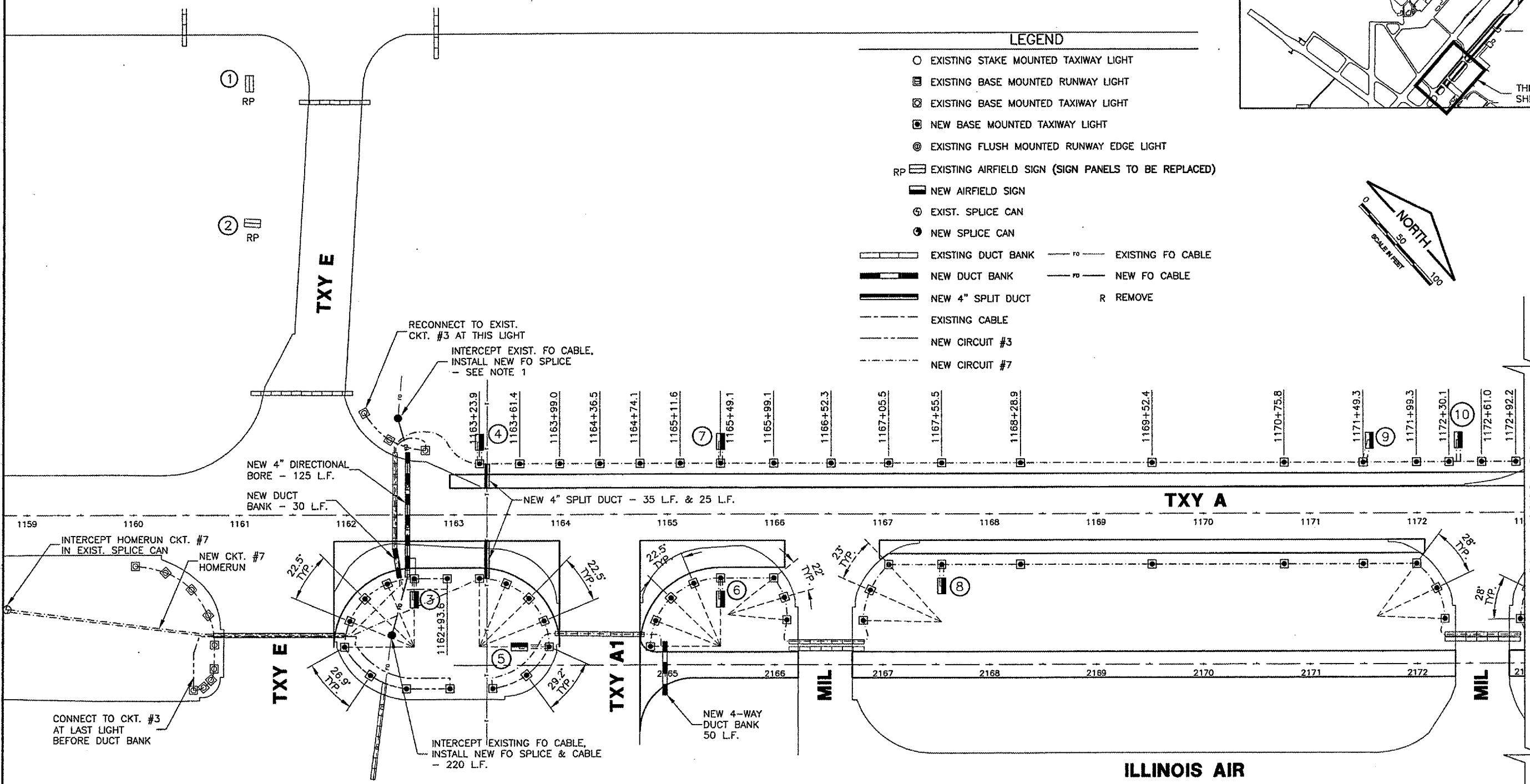
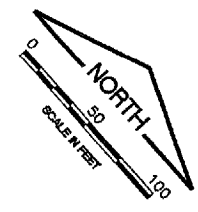
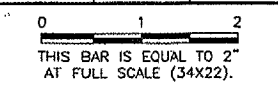
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 PLOT DATE: 2/6/2006 4:39 PM  
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 BASE\_EXISTTOPO  
 KEY  
 BASE\_PROPELEC  
 tbinfo

**LEGEND**


- EXISTING STAKE MOUNTED TAXIWAY LIGHT
- ◻ EXISTING BASE MOUNTED RUNWAY LIGHT
- ◻ EXISTING BASE MOUNTED TAXIWAY LIGHT
- ◻ NEW BASE MOUNTED TAXIWAY LIGHT
- ⊙ EXISTING FLUSH MOUNTED RUNWAY EDGE LIGHT
- RP EXISTING AIRFIELD SIGN (SIGN PANELS TO BE REPLACED)
- ◻ NEW AIRFIELD SIGN
- ⊙ EXIST. SPLICE CAN
- ⊙ NEW SPLICE CAN
- ▬ EXISTING DUCT BANK
- ▬ NEW DUCT BANK
- ▬ NEW 4" SPLIT DUCT
- ▬ EXISTING CABLE
- ▬ NEW CIRCUIT #3
- ▬ NEW CIRCUIT #7
- EXISTING FO CABLE
- NEW FO CABLE
- R REMOVE

REVISIONS

NUMBER	BY	DATE



MATCHLINE STA. 1173+00

  
 SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 ELECTRICAL & LIGHTING PLAN 1

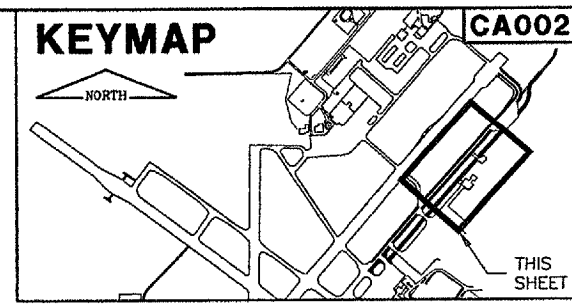
**ILLINOIS AIR  
 NATIONAL  
 GUARD**

SIGN	STATION
1	NO CHANGE
2	NO CHANGE
3	1162+50.84
4	1163+23.90
5	125' RT.
6	1165+49.10
7	1165+49.10
8	1167+47.50
9	1171+55.42
10	1172+39.08

**NOTES:**  
 1. DUE TO SECURITY CONSIDERATIONS, THE OUTAGE TIME FOR THE FIBER-OPTIC CABLE SHALL BE MINIMIZED. OUTAGE SHALL BE COORDINATED 3 DAYS PRIOR TO PERFORMING WORK.

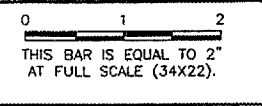
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CHECKED BY:	RLW
APPROVED BY:	RLW
DATE:	1/23/06
JOB No:	0503507
IL PROJ. NO.	SPI-3555
AIP PROJ. NO.	3-17-0096-44
SHEET	51 OF 83 SHEETS

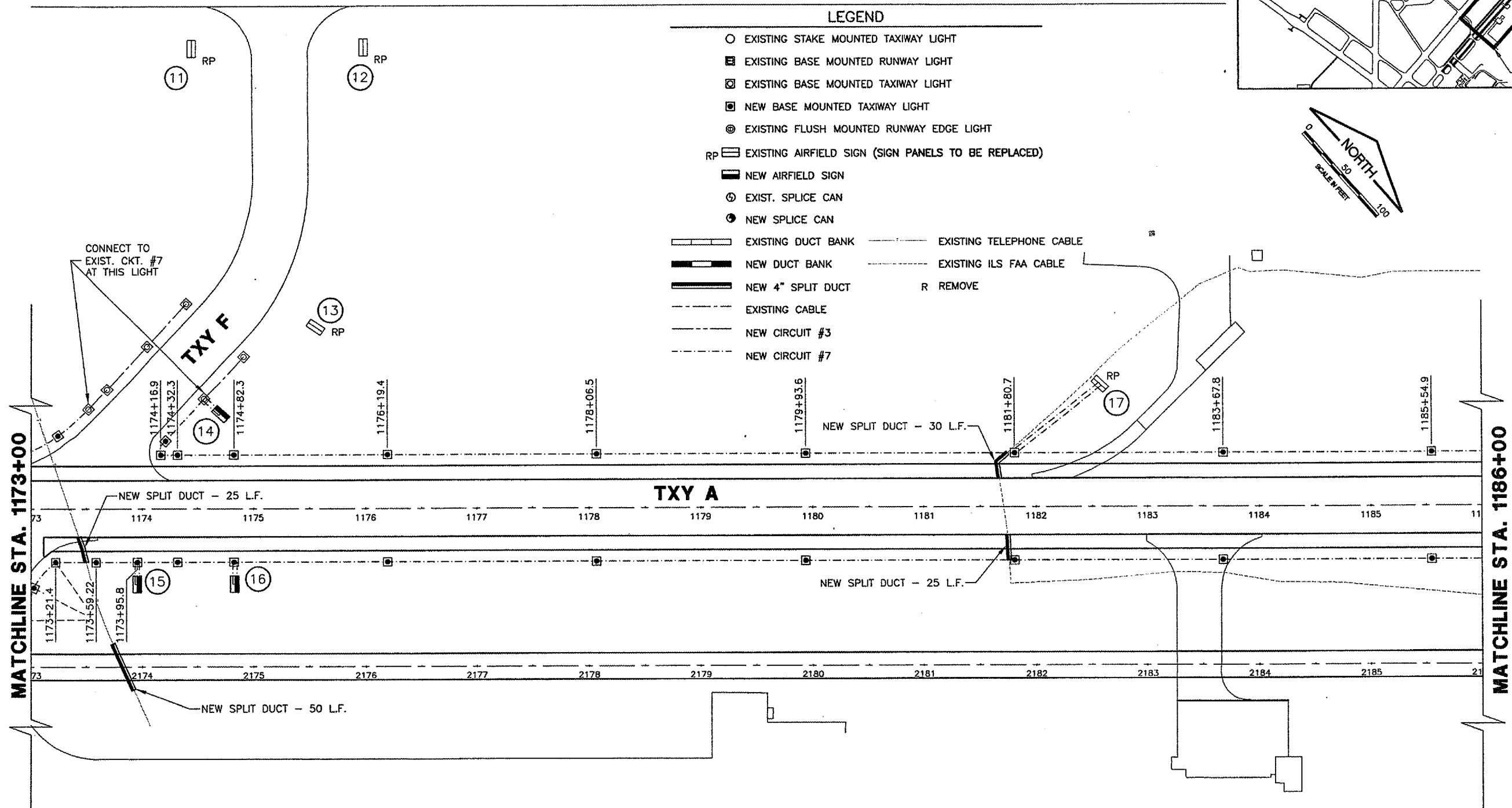


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 PLOT DATE: 2/6/2006 4:40 PM  
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 BASE\_EXISTTOPO  
 KEY  
 BASE\_PROPELEC  
 tbinfo

REVISIONS		
NUMBER	BY	DATE



- LEGEND**
- EXISTING STAKE MOUNTED TAXIWAY LIGHT
  - EXISTING BASE MOUNTED RUNWAY LIGHT
  - ⊠ EXISTING BASE MOUNTED TAXIWAY LIGHT
  - ▣ NEW BASE MOUNTED TAXIWAY LIGHT
  - ⊙ EXISTING FLUSH MOUNTED RUNWAY EDGE LIGHT
  - RP ▭ EXISTING AIRFIELD SIGN (SIGN PANELS TO BE REPLACED)
  - ▭ NEW AIRFIELD SIGN
  - ⊕ EXIST. SPLICE CAN
  - NEW SPLICE CAN
  - ▭ EXISTING DUCT BANK
  - ▭ NEW DUCT BANK
  - ▭ NEW 4" SPLIT DUCT
  - EXISTING CABLE
  - NEW CIRCUIT #3
  - NEW CIRCUIT #7
  - EXISTING TELEPHONE CABLE
  - EXISTING ILS FAA CABLE
  - R REMOVE



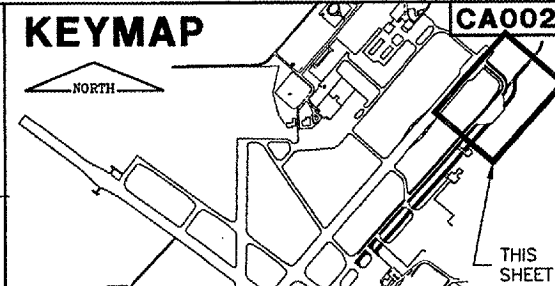
SIGN	STATION
11	NO CHANGE
12	NO CHANGE
13	NO CHANGE
14	1174+88.43
15	1173+95.61
16	1174+83.03
17	REPLACE EXISTING

**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**ELECTRICAL & LIGHTING PLAN 2**

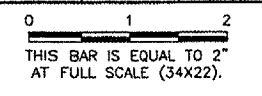
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 DATE: 1/23/06  
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 ILL. PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44  
 SHEET 52 OF 83 SHEETS



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 tbinfo

REVISIONS		
NUMBER	BY	DATE



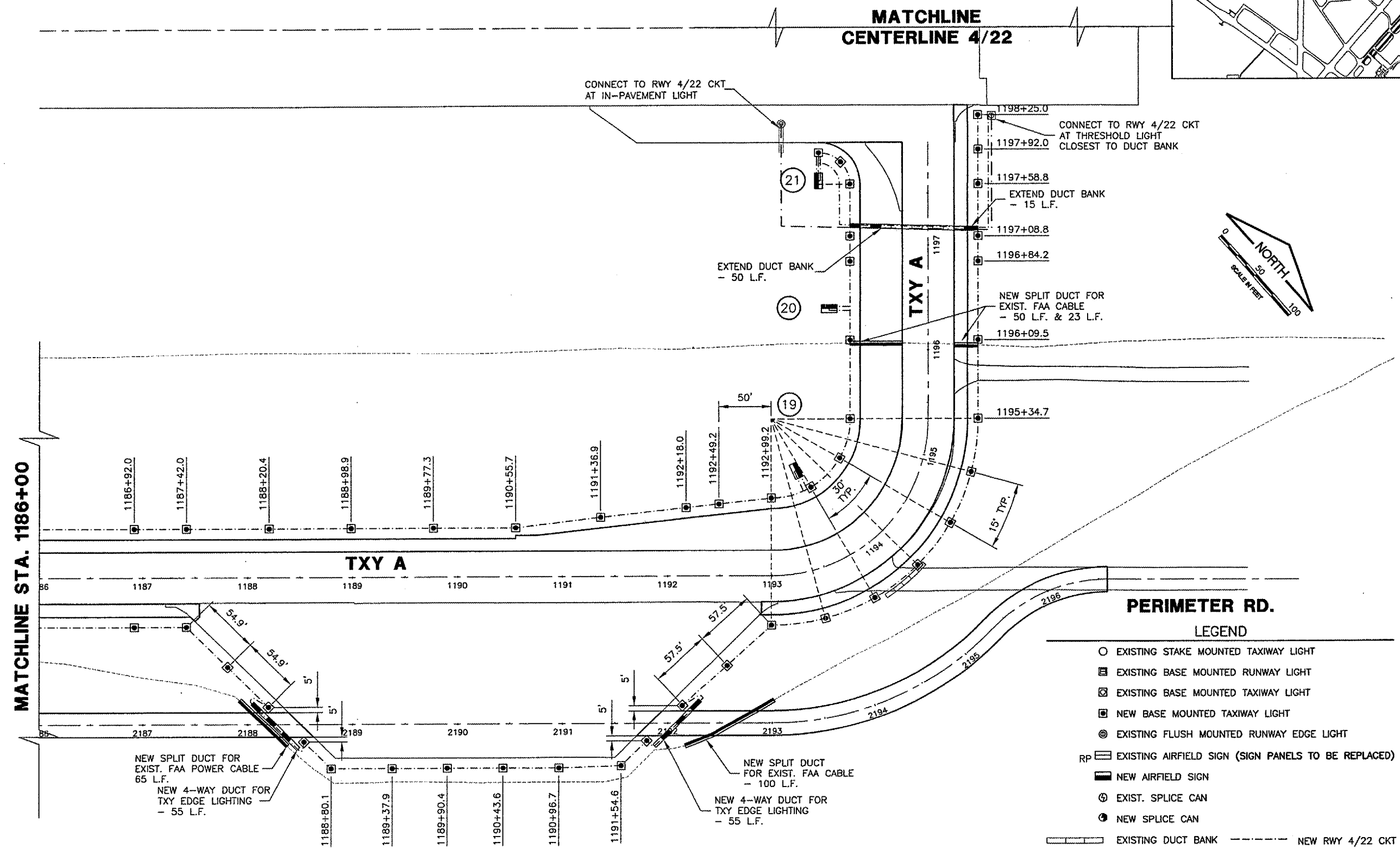
  
**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**ELECTRICAL & LIGHTING PLAN 3**

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 APPROVED BY: *REW*  
 DATE: 1/23/06  
 JOB No: 0503507  
 IL PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44  
 SHEET 53 OF 83 SHEETS

**MATCHLINE**  
**CENTERLINE 4/22**



**MATCHLINE STA. 1186+00**

**PERIMETER RD.**

**LEGEND**

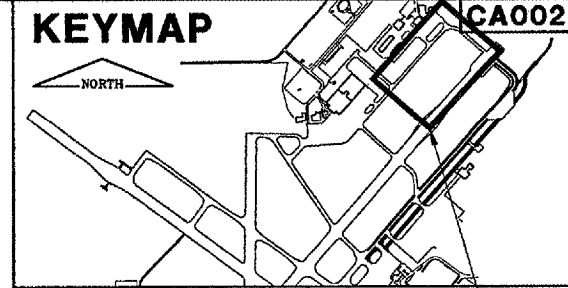
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- EXISTING BASE MOUNTED RUNWAY LIGHT
- ⊠ EXISTING BASE MOUNTED TAXIWAY LIGHT
- NEW BASE MOUNTED TAXIWAY LIGHT
- ⊙ EXISTING FLUSH MOUNTED RUNWAY EDGE LIGHT
- RP ■ EXISTING AIRFIELD SIGN (SIGN PANELS TO BE REPLACED)
- NEW AIRFIELD SIGN
- ⊕ EXIST. SPLICE CAN
- NEW SPLICE CAN
- ▬ EXISTING DUCT BANK
- ▬ NEW DUCT BANK
- ▬ NEW 4" SPLIT DUCT
- ▬ EXISTING CABLE
- ▬ NEW CIRCUIT #3
- ▬ NEW CIRCUIT #7
- ▬ NEW RWY 4/22 CKT
- ▬ EXISTING ILS FAA CABLE
- R REMOVE

SIGN	STATION
19	1193+65.36
20	1196+39.75
21	1197+62.16

**LEGEND**

- EXISTING STAKE MOUNTED TAXIWAY LIGHT
- ◻ EXISTING BASE MOUNTED RUNWAY LIGHT
- ◻ EXISTING BASE MOUNTED TAXIWAY LIGHT
- ◻ NEW BASE MOUNTED TAXIWAY LIGHT
- ⊙ EXISTING FLUSH MOUNTED RUNWAY EDGE LIGHT
- RP ◻ EXISTING AIRFIELD SIGN (SIGN PANELS TO BE REPLACED)
- ◻ NEW AIRFIELD SIGN
- ⊙ NEW SPLICE CAN
- ▬ EXISTING DUCT BANK
- ▬ NEW DUCT BANK
- ▬ NEW 4" SPLIT DUCT
- - - EXISTING CABLE
- - - NEW CIRCUIT 5
- - - NEW RWY. 4/22 CIRCUIT
- R REMOVE

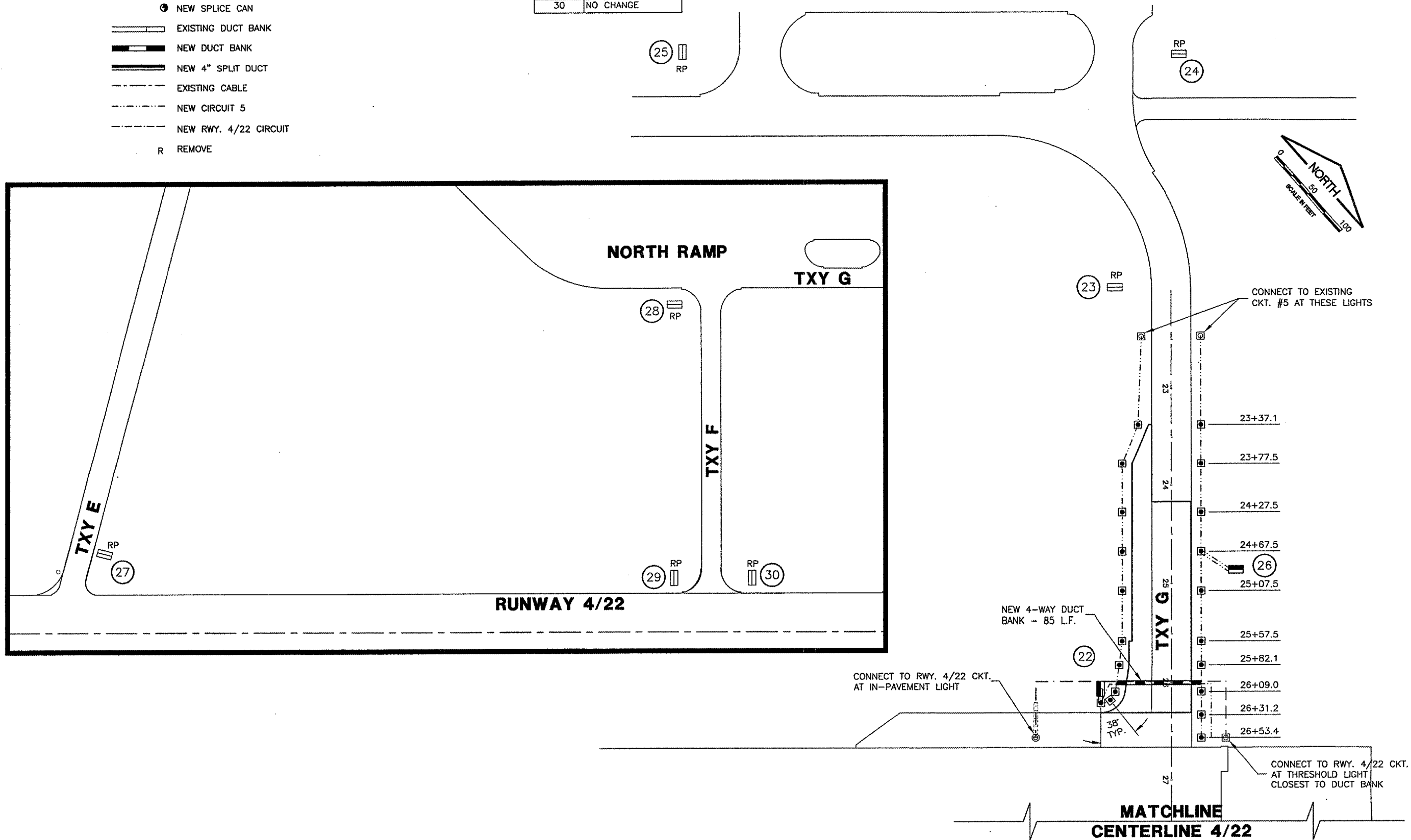
SIGN	STATION
22	72' RT.
23	NO CHANGE
24	NO CHANGE
25	NO CHANGE
26	24+86.30
27	NO CHANGE
28	NO CHANGE
29	NO CHANGE
30	NO CHANGE



K:\SpringfieldAp\0503507\Draw\Sheets  
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 PLOT DATE: 2/6/2006 4:40 PM  
 thinfo  
 BASE\_PROJGEO  
 KEY  
 BASE\_PROPELEC  
 BASE\_EXISTTOPO  
 Capital\_Base

REVISIONS		
NUMBER	BY	DATE

0 1 2  
 THIS BAR IS EQUAL TO 2"  
 AT FULL SCALE (34X22).

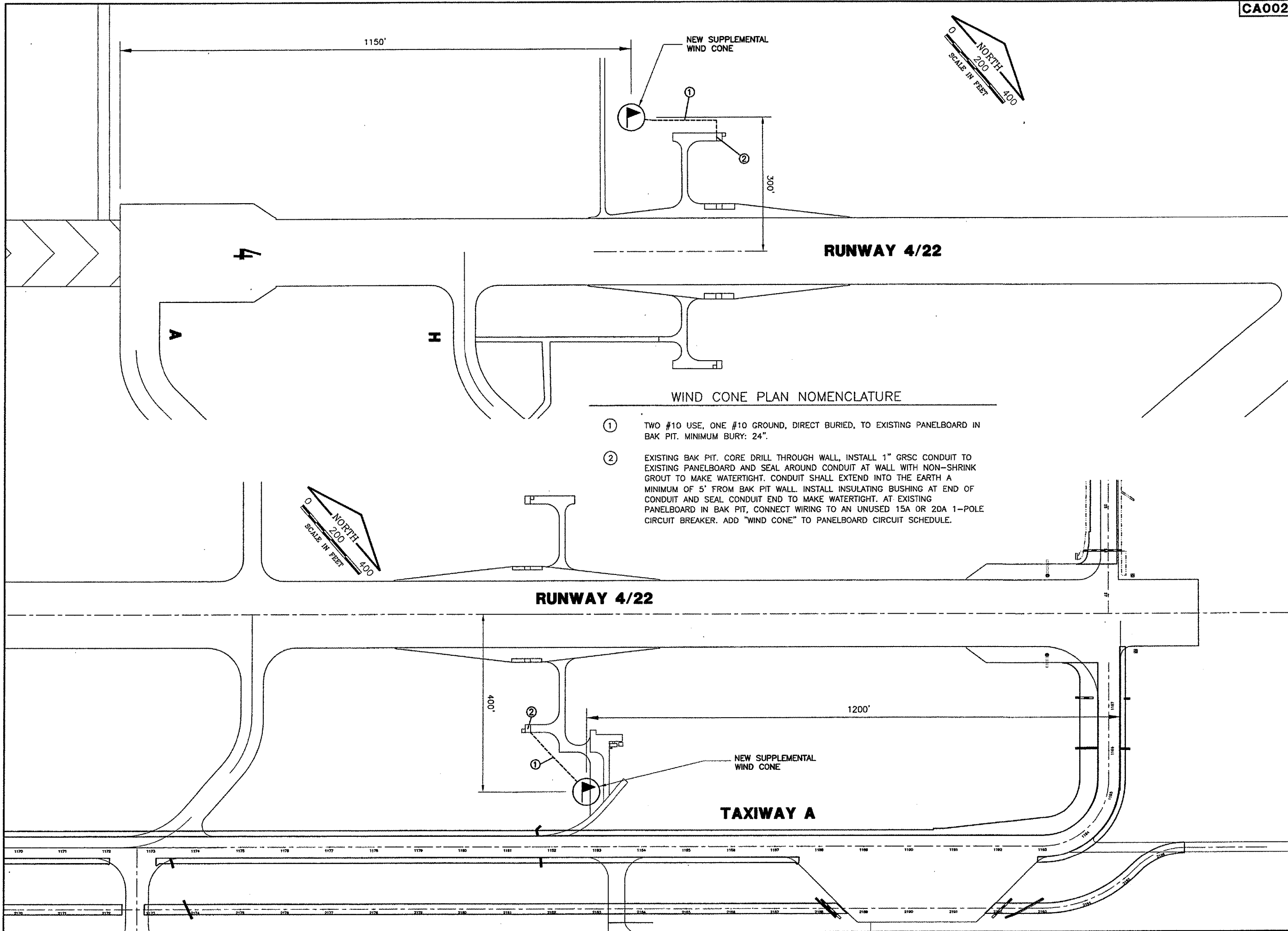
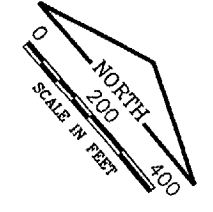


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**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**ELECTRICAL & LIGHTING PLAN 4**

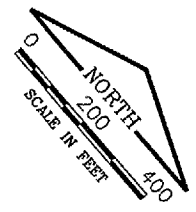
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 CHECKED BY: *RW*  
 APPROVED BY: *RW*  
 DATE: 1/23/06  
 JOB No: 0503507  
 I.L. PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44  
 SHEET 54 OF 83 SHEETS



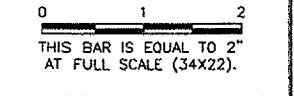
**WIND CONE PLAN NOMENCLATURE**

- ① TWO #10 USE, ONE #10 GROUND, DIRECT BURIED, TO EXISTING PANELBOARD IN BAK PIT. MINIMUM BURY: 24".
- ② EXISTING BAK PIT. CORE DRILL THROUGH WALL, INSTALL 1" GRSC CONDUIT TO EXISTING PANELBOARD AND SEAL AROUND CONDUIT AT WALL WITH NON-SHRINK GROUT TO MAKE WATERTIGHT. CONDUIT SHALL EXTEND INTO THE EARTH A MINIMUM OF 5' FROM BAK PIT WALL. INSTALL INSULATING BUSHING AT END OF CONDUIT AND SEAL CONDUIT END TO MAKE WATERTIGHT. AT EXISTING PANELBOARD IN BAK PIT, CONNECT WIRING TO AN UNUSED 15A OR 20A 1-POLE CIRCUIT BREAKER. ADD "WIND CONE" TO PANELBOARD CIRCUIT SCHEDULE.



REVISIONS

NUMBER	BY	DATE



**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**SUPPLEMENTAL WIND CONE PLAN**

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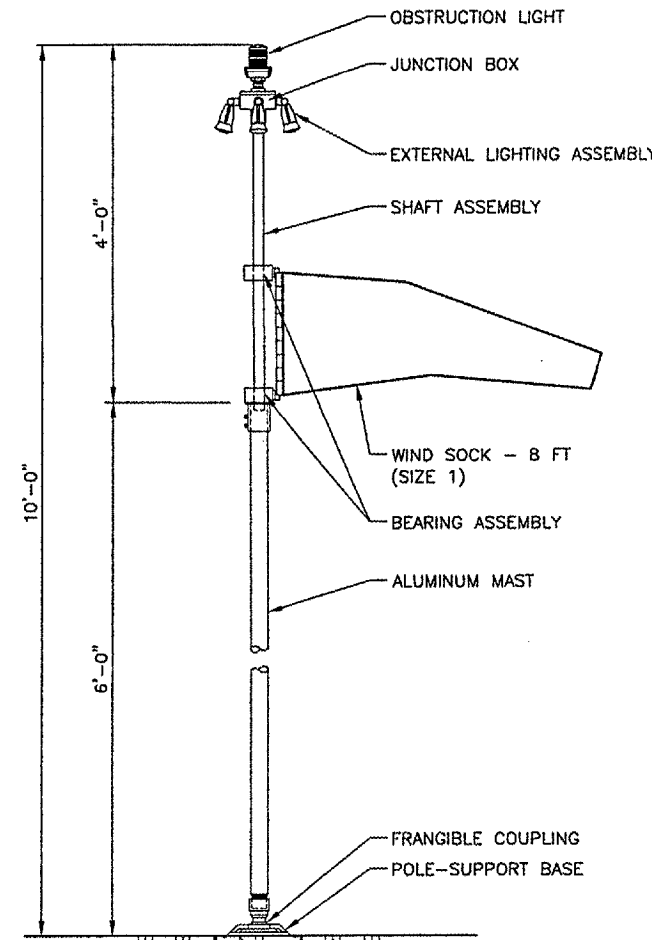
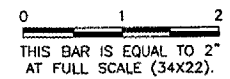
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 DATE: 1/23/06  
 JOB No: 0503507  
 ILL. PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44  
 SHEET 55 OF 83 SHEETS

**WIND CONE POWER LEGEND**

- ① 2" ALUMINUM SUPPORT POST (TYP. OF 2). PROVIDE CAP AT EACH END. WHERE SUPPORT POST IS EMBEDDED IN CONCRETE, IT SHALL RECEIVE ONE COAT, 8 DRY MILS, COAL TAR EPOXY, EPOXYSYSTEMS #210 COAL TAR EPOXY COATING, OR EQUIVALENT.
  - ② MINIMUM 1/8" THICK ALUMINUM MOUNTING PANEL, SIZED AS REQUIRED TO MOUNT EQUIPMENT.
  - ③ HEAVY-DUTY 30A, 600V UNFUSED DISCONNECT IN NEMA 3R ENCLOSURE, SQUARE D HU361RB, OR EQUIVALENT (NOTE: ONLY ONE POLE OF DISCONNECT WILL BE USED). PROVIDE GROUND LUGS. PROVIDE LABEL READING: "WIND CONE DISCONNECT".
  - ④ WIND CONE PHOTOCELL, TORK MODEL #2101, OR EQUIVALENT. (NOTE: PHOTOCELL OPERATION IS AS FOLLOWS: DURING THE DAYTIME THE WIND CONE LIGHTS ARE OFF AND THE OBSTRUCTION LIGHT IS ON; AFTER DARK THE WIND CONE LIGHTS AND OBSTRUCTION LIGHT ARE ON.)
- IMPORTANT NOTE:**  
 LOCATE DISCONNECT/PHOTOCELL INSTALLATION NEAR WIND CONE SUCH THAT WIND CONE LIGHTS WILL NOT ADVERSELY AFFECT THE PHOTOCELL OPERATION.
- ⑤ NEMA 4 JUNCTION BOX SIZED AS REQUIRED TO HOUSE 10A IN-LINE FUSE AND PHOTOCELL BYPASS SELECTOR SWITCH. PROVIDE LABELS READING: "PHOTOCELL BYPASS" OVER SELECTOR SWITCH AND "FUSE INSIDE" BELOW SELECTOR SWITCH. (SEE WIND CONE SCHEMATIC.)
  - ⑥ 12" DIAMETER x 4'-0" DEEP (MIN.) CONCRETE FOUNDATION.
  - ⑦ TWO #10 USE, ONE #10 USE GROUND TO EXISTING PANELBOARD IN BAK PIT. MINIMUM BURY: 24". INSTALL IN 3/4" GRSC TO MINIMUM OF 5' FROM DISCONNECT. INSTALL INSULATING BUSHING AND SEAL CONDUIT END TO MAKE WATERTIGHT. DIRECT BURY REMAINING CABLES TO BAK PIT.
  - ⑧ ONE #8 GROUND IN 1/2" PVC CONDUIT TO 1" BELOW GRADE.
  - ⑨ 3/4" DIAMETER x 10' LONG COPPERCLAD GROUND ROD, MINIMUM BURY: 1'-0". BOND GROUND WIRE TO GROUND ROD USING EXOTHERMIC WELD, CADWELD, OR EQUIVALENT. CLAMPED CONNECTIONS SHALL NOT BE ACCEPTABLE.
  - ⑩ TWO #12 USE (OBSTRUCTION LIGHT POWER), TWO #12 USE (WIND CONE LIGHTS POWER), ONE #12 USE GROUND TO WIND CONE. MINIMUM BURY: 24". INSTALL IN 1" GRSC TO MINIMUM OF 5' FROM JUNCTION BOX. INSTALL INSULATING BUSHING AND SEAL CONDUIT END TO MAKE WATERTIGHT. DIRECT BURY REMAINING CABLES TO WIND CONE.
  - ⑪ FRANGIBLE COUPLING (TYP. OF 2).

REVISIONS

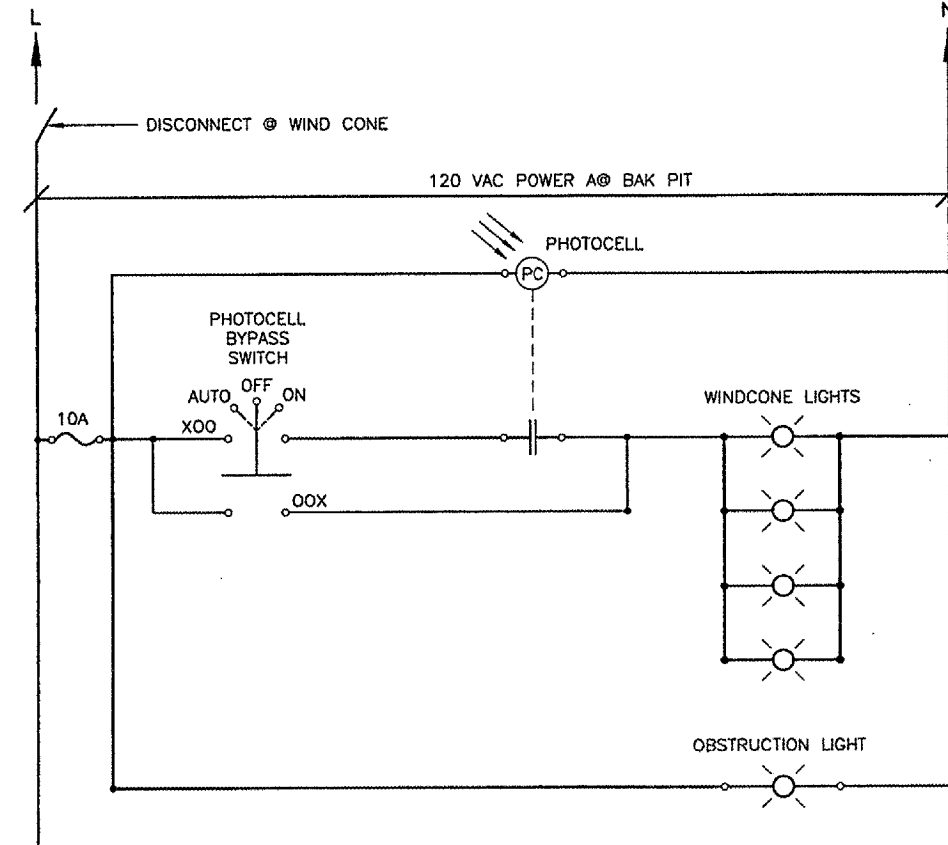
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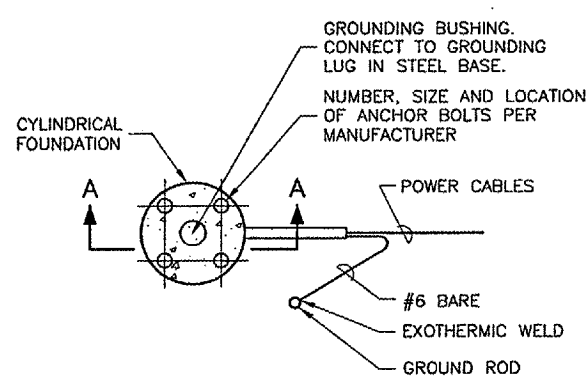
4 #12, USE  
 1 #12 GND.  
 IN 3/4" GRSC.  
 FOUNDATION.  
 SEE DETAILS  
 THIS SHEET.

TO DISCONNECT INSTALLATION  
 INSULATED BUSHING  
 (TYP.)

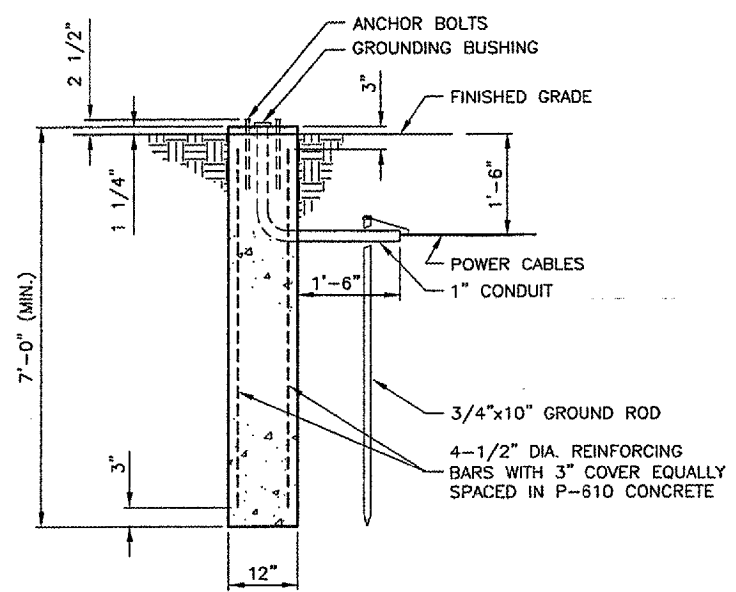
**L-806 WIND CONE DETAIL**  
 N.T.S.



**WIND CONE SCHEMATIC**  
 N.T.S.

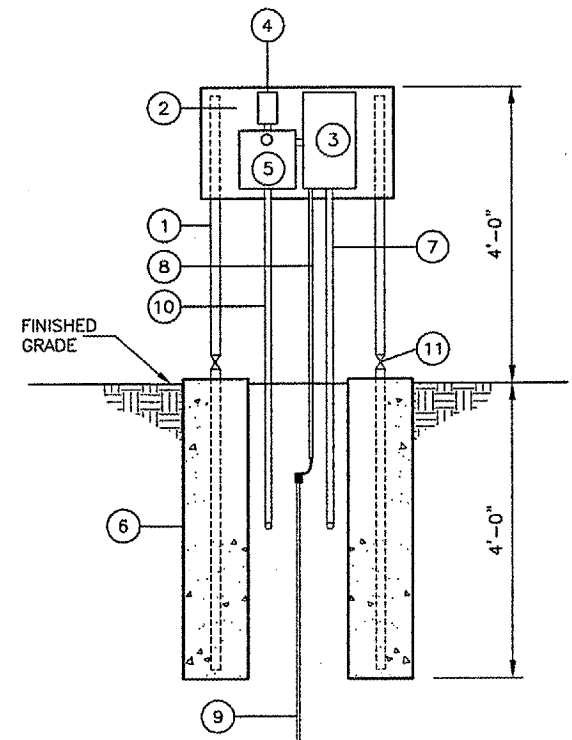


**PLAN**



**SECTION A-A**

**WIND CONE FOUNDATION**  
 N.T.S.



**WIND CONE POWER DETAIL**  
 N.T.S.

**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**SUPPLEMENTAL WIND CONE DETAILS**

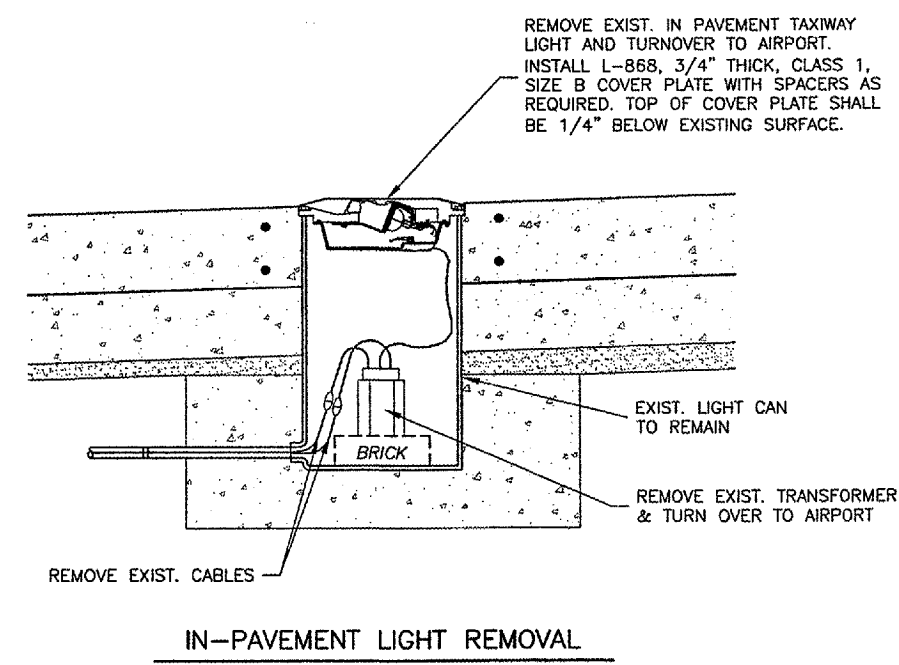
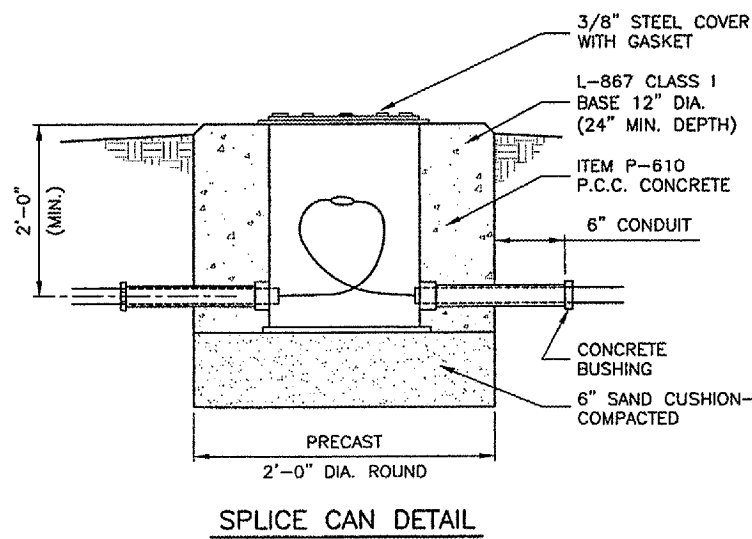
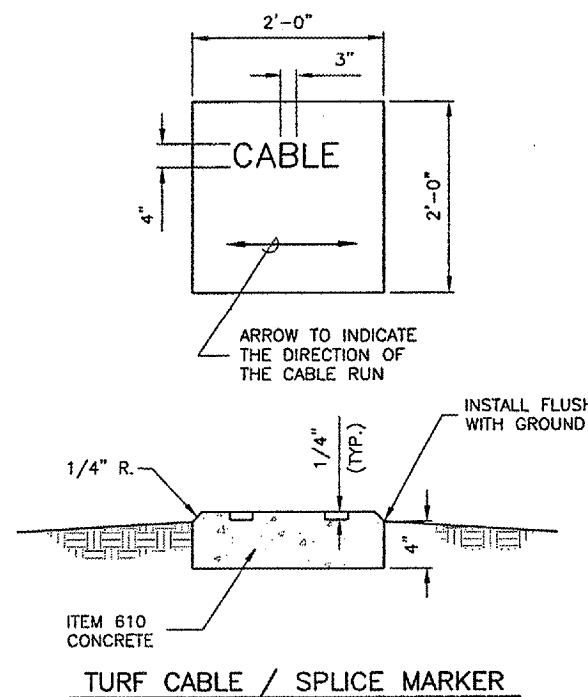
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 DRAWN BY: DPA  
 CHECKED BY: *RM*  
 APPROVED BY: *RM*  
 DATE: 1/23/06  
 JOB No: 0503507  
 ILL. PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44  
 SHEET 56 OF 83 SHEETS



REVISIONS		
NUMBER	BY	DATE

0 1 2  
 THIS BAR IS EQUAL TO 2"  
 AT FULL SCALE (34X22).



**NOTES**

1. CABLE MARKERS SHALL BE INSTALLED AT ALL BENDS AND EVERY 200' ALONG THE HOMERUN.
2. ITEM 610 CONCRETE SHALL BE USED.
3. ALL EXPOSED EDGES SHALL BE EDGED WITH A 1/4" RADIUS TOOL.
4. THE COST OF FURNISHING AND INSTALLING NEW MARKERS SHALL BE INCIDENTAL TO THE ASSOCIATED ITEMS.
5. 0.049 CU. YD. CONCRETE PER MARKER.
6. A MARKER CONFORMING TO THIS DETAIL MARKED "SPLICE" SHALL BE INSTALLED AT ALL SPLICE LOCATIONS NOT IN LIGHT CANS OR MANHOLES.

**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**

**ELECTRICAL DETAILS 1**

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 APPROVED BY: *RLV*  
 DATE: 1/23/06  
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 IL PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44  
 SHEET 57 OF 83 SHEETS

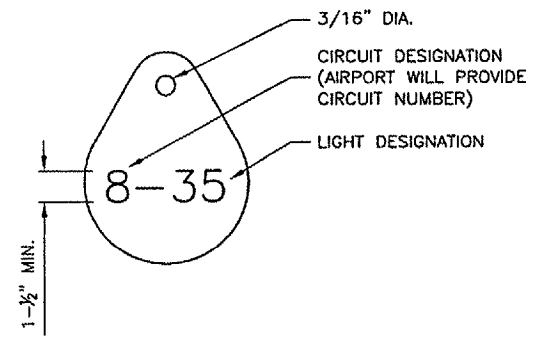
**NOTES**

INSTALL A NONCORROSIVE DISC OF 2" MINIMUM DIAMETER WITH THE NUMBER PERMANENTLY STAMPED, CUT OUT, OR ENGRAVED UNDER THE HEAD OF THE BASE PLATE BOLT OR ATTACHED TO LIGHT FLANGE WITH SET SCREW.

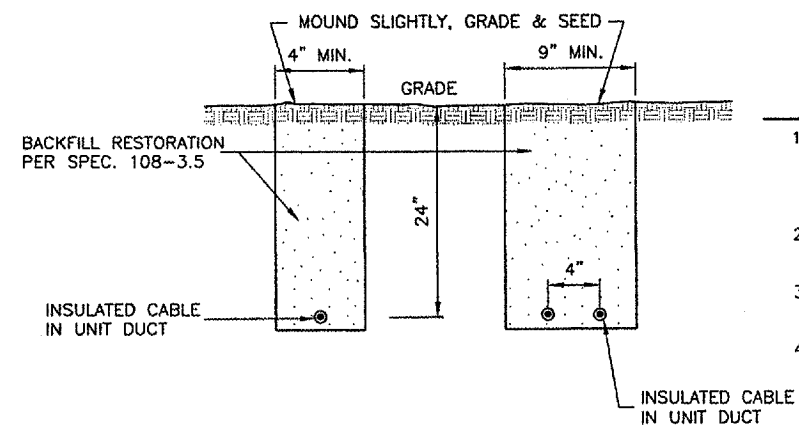
LEGENDS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR TO COORDINATE LEGEND WITH AIRPORT.

THE CONTRACTOR SHALL NUMBER THE EXISTING/PROPOSED LIGHTS AND SIGNS IN EACH CIRCUIT STARTING AT THE HOMERUN CONTINUING AROUND THE ENTIRE CIRCUIT BACK TO THE HOMERUN.

AIRFIELD SIGNS SHALL BE TAGGED & NUMBERED.



**LIGHT IDENTIFICATION DETAIL**  
N.T.S.



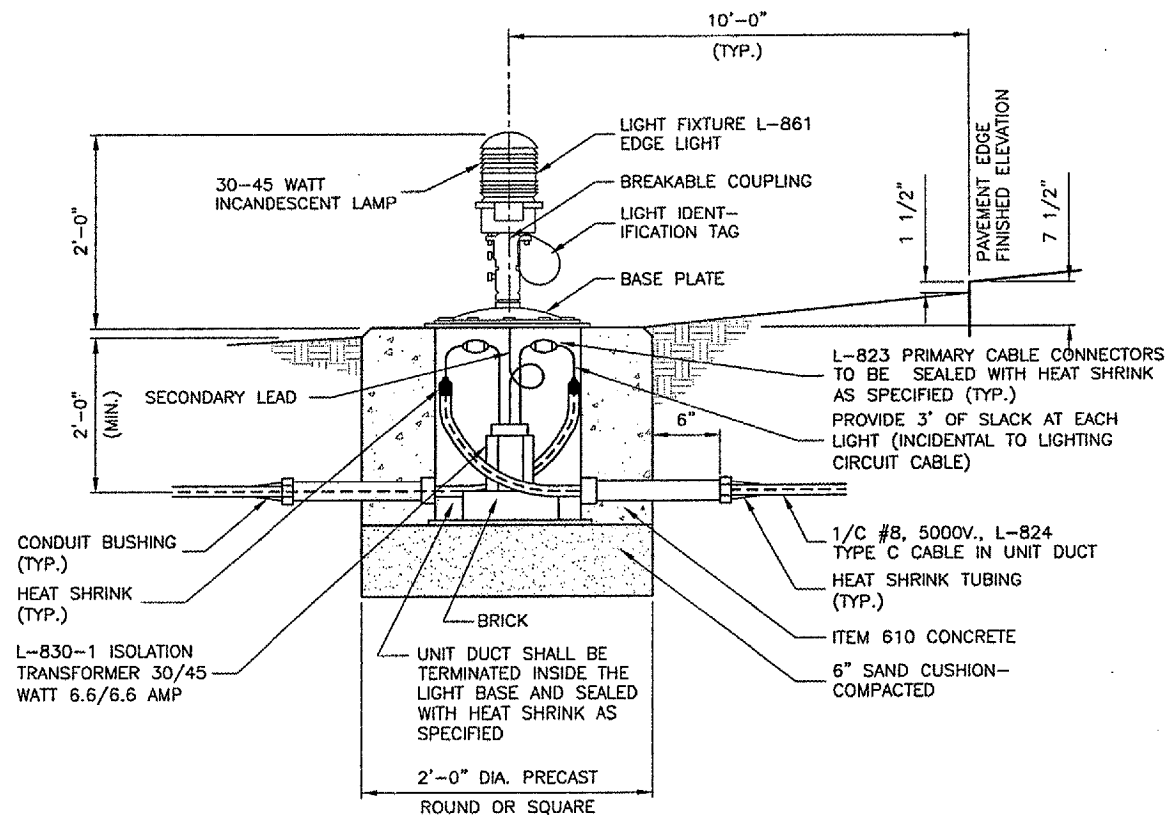
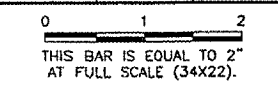
**TRENCH DETAIL**  
N.T.S.

**NOTES**

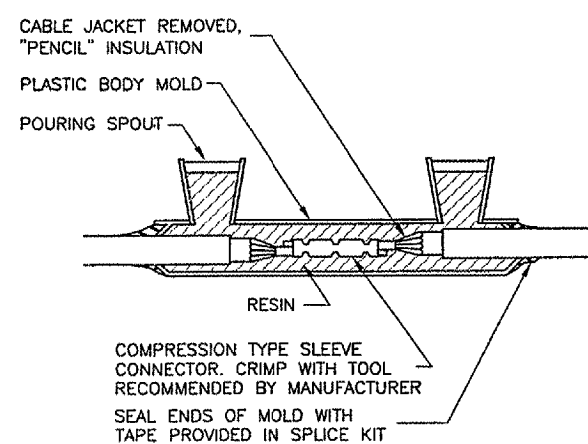
- TRENCHES WITH MORE THAN 2 CABLES SHALL BE INCREASED 3" IN WIDTH FOR EACH ADDITIONAL CABLE. IF SPECIFIED ON PLANS, TWO PARALLEL TRENCHES MAY BE CONSTRUCTED.
- DEPTH OF TRENCHES SHALL BE AS SHOWN ABOVE UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- SAND BACKFILL SHALL BE USED IF THE EXISTING SOIL DOES NOT MEET THE BACKFILL REQUIREMENTS.
- ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL TO ITEM 108.

**REVISIONS**

NUMBER	BY	DATE

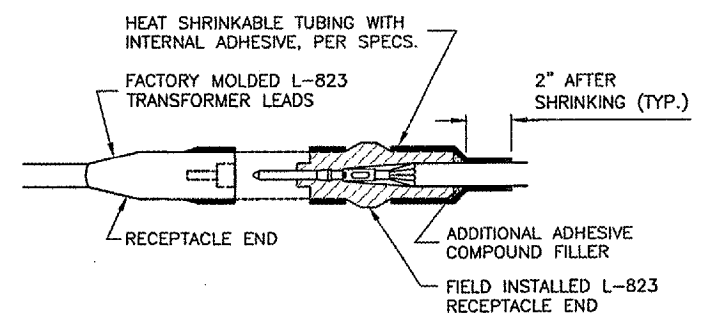


**BASE MOUNTED EDGE LIGHTS**  
N.T.S.



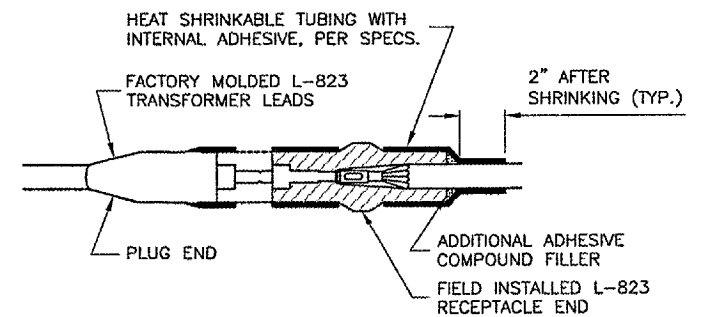
FOR IN-LINE CONNECTIONS OF EXISTING CABLES CUT DURING CONSTRUCTION.

**TYPE A**



FOR SPLICES AT TAXIWAY LIGHTS AND SIGNS.

**TYPE C**



FOR SPLICES AT TAXIWAY LIGHTS AND SIGNS.

**TYPE D**

**CABLE SPLICES**

N.T.S.  
NOTES

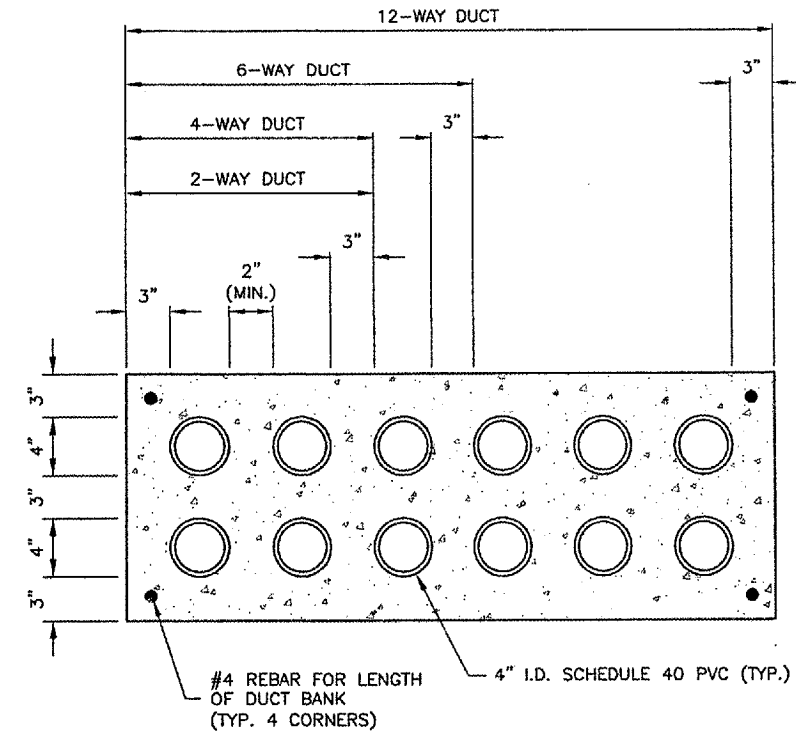
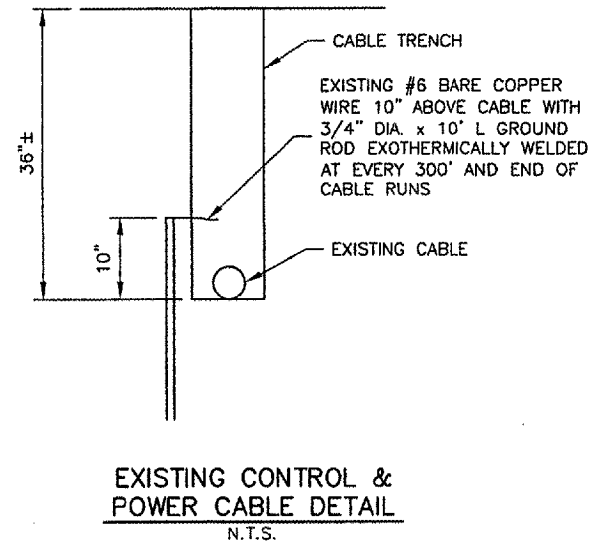
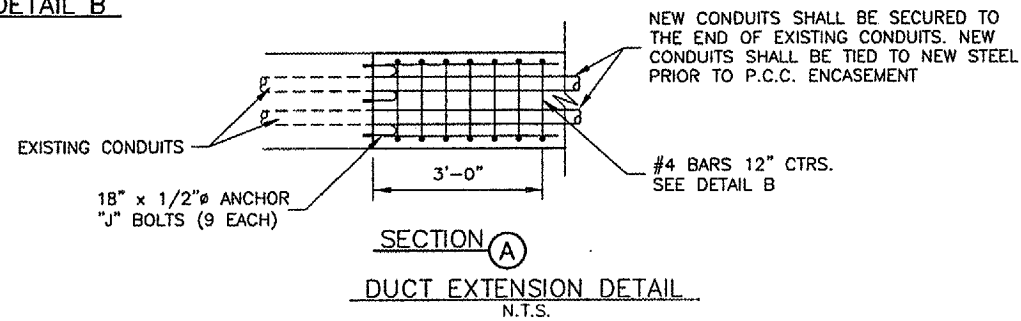
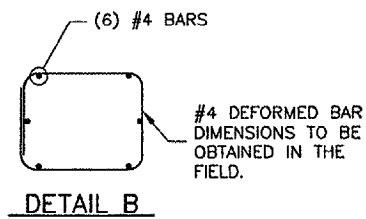
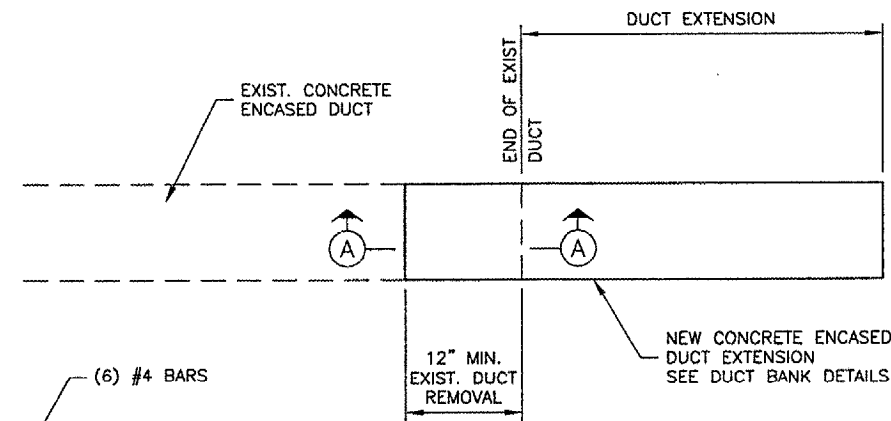
- INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE.
- THE COST OF FURNISHING AND INSTALLING ALL SPLICE MATERIALS SHALL BE INCIDENTAL TO THE ASSOCIATED CABLE ITEMS.
- THE CONTRACTOR SHALL HAVE A MINIMUM OF TWO (2) TYPE A SPLICE KITS ON THE JOB SITE AT ALL TIMES FOR EMERGENCY REPAIRS.

**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**ELECTRICAL DETAILS 2**

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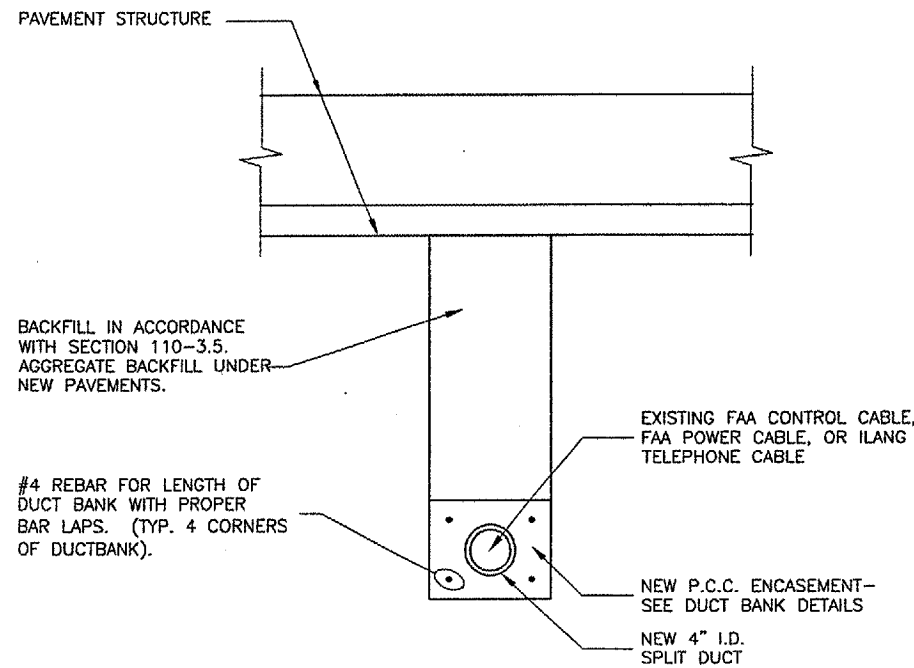
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DATE:	1/23/06
JOB No:	0503507
IL PROJ. NO. SPI-3555	
AIP PROJ. NO. 3-17-0096-44	
SHEET 58 OF 83 SHEETS	



**DUCT BANK DETAIL**  
N.T.S.

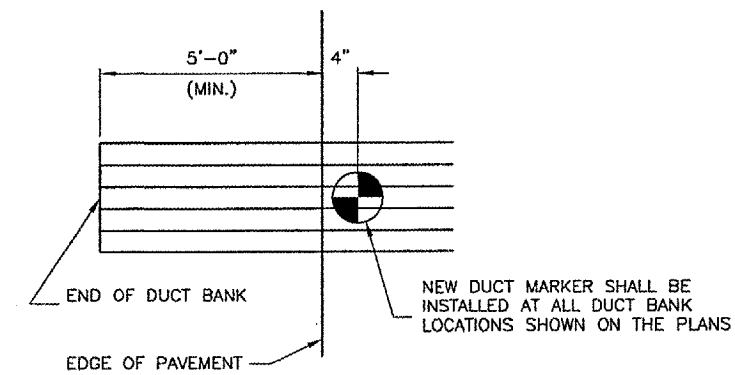
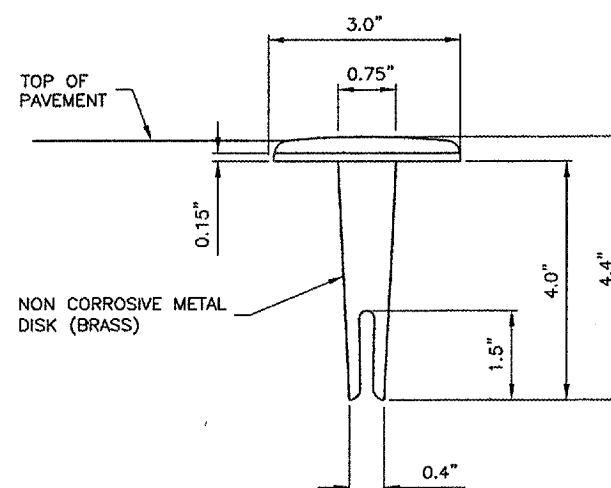
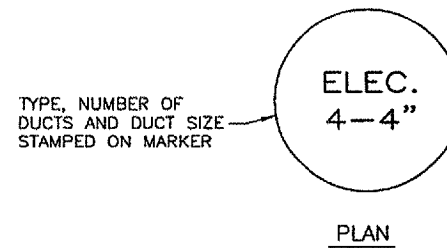
**NOTES**

1. DIMENSIONS SHOWN ARE MINIMUM.
2. TOP OF CONCRETE ENCASEMENT TO BE NOT LESS THAN 18" BELOW FINISHED SUBGRADE.
3. DUCT CONCRETE SHALL BE ITEM 610 STRUCTURAL P.C.C. CONCRETE.
4. ALL DUCT SHALL BE 4" INSIDE DIAMETER.
5. LOCATIONS SHOWN ARE APPROXIMATE. DUCT BANKS SHALL BE INSTALLED AT LOCATIONS DESIGNATED BY THE ENGINEER.
6. CONTRACTOR SHALL INSTALL DUCT BANKS AT A DEPTH WHICH WILL NOT CONFLICT WITH ELEVATION SENSITIVE UTILITIES.
7. A PULL WIRE SHALL BE PROVIDED IN EACH UNUSED CONDUIT. UNUSED DUCT SHALL BE SEALED WITH PVC PLUGS/CAPS TO THE SATISFACTION OF THE ENGINEER.
8. DUCT BANKS SHALL EXTEND A MINIMUM OF 5' BEYOND THE NEW EDGE OF PAVEMENT.



1. CONTRACTOR SHALL CUT THE #6 BARE COPPER WIRE AT EACH END OF THE NEW DUCT AND EXOTHERMICALLY WELD THE WIRE TO A 3/4" DIA. x 10' LONG GROUND ROD. THIS COST SHALL BE INCIDENTAL TO THE SPLIT DUCT INSTALLATION.

**SPLIT DUCT DETAIL**  
N.T.S.



DUCT MARKERS SHALL BE RECESSED AND GROUTED INTO THE PAVEMENTS.

**DUCT MARKER DETAILS**  
N.T.S.

REVISIONS		
NUMBER	BY	DATE

0 1 2  
 THIS BAR IS EQUAL TO 2" AT FULL SCALE (34x22).

**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

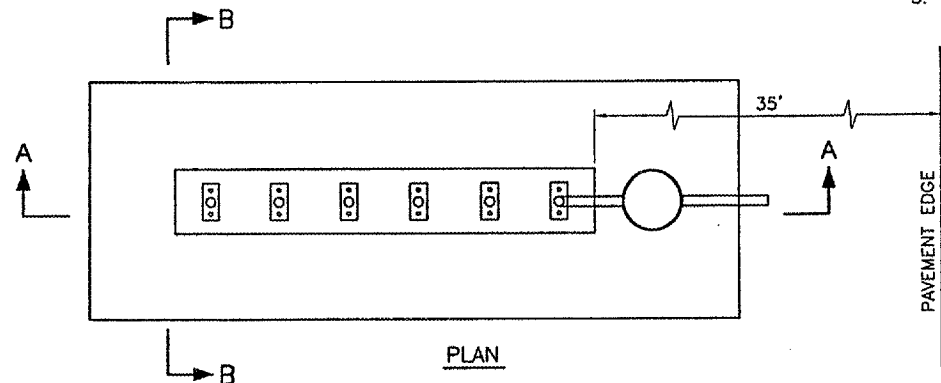
**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**DUCT BANK DETAIL**

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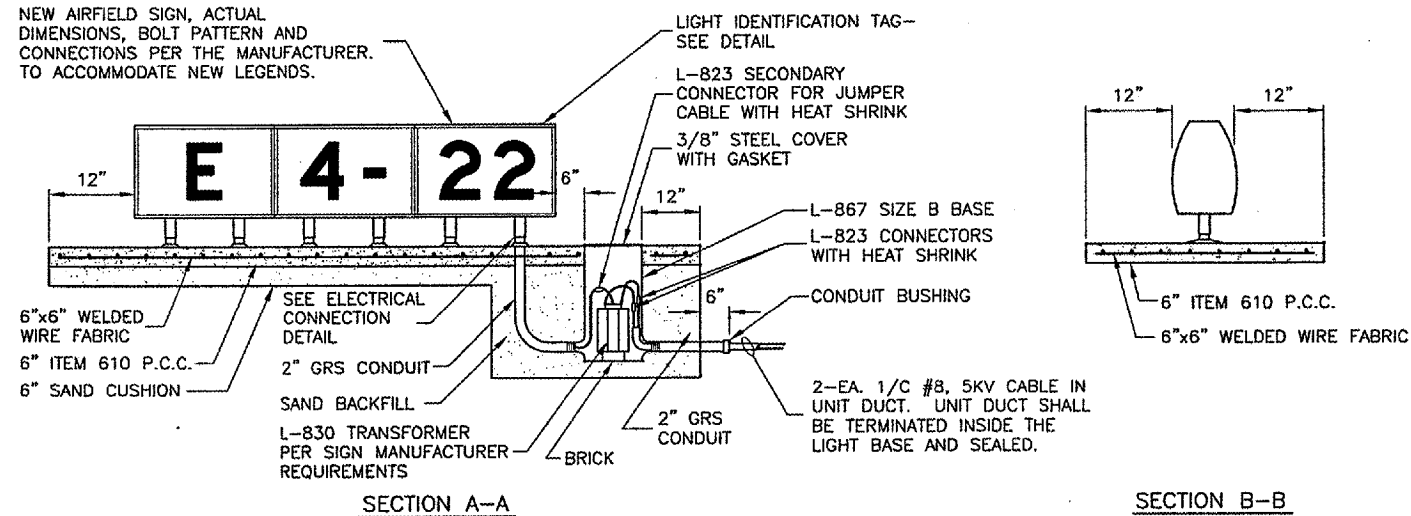
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 DATE: 1/23/06  
 JOB No: 0503507  
 IL. PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44  
 SHEET 59 OF 83 SHEETS

NOTES

- SIGN SCHEDULE IS SUBJECT TO FAA APPROVAL OF THE SIGNAGE PLAN.
- CHANGES TO NEW LEGENDS MAY OCCUR SUBJECT TO 1 ABOVE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH NEW LEGENDS FOR APPROVAL PRIOR TO STARTING MANUFACTURE.
- EXISTING SIGNS ARE LUMACURVE.
- NEW SIGNS SHALL BE LUMACURVE TO MATCH EXISTING.



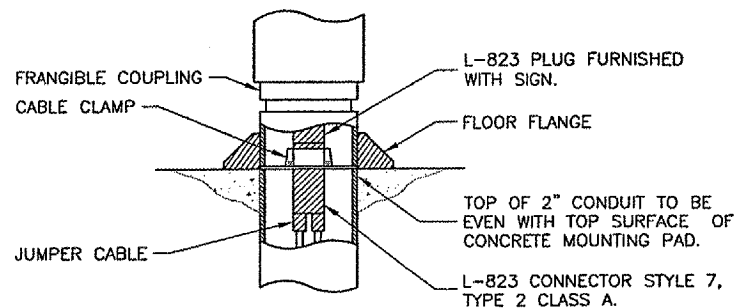
NEW AIRFIELD SIGN, ACTUAL DIMENSIONS, BOLT PATTERN AND CONNECTIONS PER THE MANUFACTURER. TO ACCOMMODATE NEW LEGENDS.



L-858 AIRFIELD SIGN DETAILS  
 N.T.S.

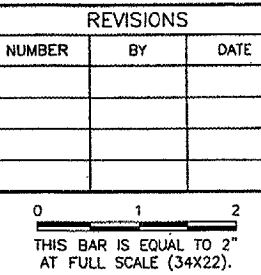
NOTES

- TRANSFORMER WATTAGE SHALL BE AS REQUIRED BY SIGN MANUFACTURER.
- SIGN LEGEND SHALL BE AS SHOWN IN THE PLANS.
- SIGNS SHALL BE SIZE 2, STYLE 2, CLASS 2.



SIGN SCHEDULE

SIGN NO.	SIDE	NEW SIGN LEGEND	WHITE LEGEND WITH BLACK OUTLINE ON RED BACKGROUND	BLACK LEGEND ON YELLOW BACKGROUND	YELLOW LEGEND ON BLACK BACKGROUND	NUMBER OF NEW CHARACTERS	NEW FACES	NOTES
1	NE SW	E →		E →		2	1	REPLACE EXISTING FACES
2	NW SE	E 4-22	4-22		E	5	2	REPLACE EXISTING FACES
3	NE SW	← E A E → A		← E E →	A	5		NEW SIGN
4	NE SW	A A1 →		A1 →	A	4		NEW SIGN
5	NW SE	A1 ← A →		← A →	A1	5		NEW SIGN
6	NE SW	← A1 A ↑ 22		← A1 ↑ 22	A	4		NEW SIGN
7	NE SW	MIL →		MIL →		4		NEW SIGN
8	SW NE	← MIL		← MIL		4		NEW SIGN
9	NE SW	MIL →		MIL →		4		NEW SIGN
10	NE SW	↙ F A A		↙ F A	A	3		NEW SIGN
11	NE SW	F →		F →		2	1	REPLACE EXISTING FACES
12	SW NE	← F		← F		2	1	REPLACE EXISTING FACES
13	N S	MIL ↑ FBO ↑			MIL ↑ FBO ↑	4	2	REPLACE EXISTING FACES
14	N S	F ↙ A ↗ F		↙ A ↗ F	F	4		NEW SIGN
15	SW NE	← MIL		← MIL		4		NEW SIGN
16	NE SW	A 22 ↑ F ↘		F ↘ 22 ↑	A	3		NEW SIGN
17	N S	⊖		⊖		1	1	REPLACE EXISTING FACES
18								NOT USED
19	N S	ILS	ILS			3		NEW SIGN
20	NW SE	A 4-22	4-22		A	5		NEW SIGN
21	NE SW	A →		A →		2		NEW SIGN
22	NE SW	← G		← G		2		NEW SIGN
23	NW SE	22 ↑ IDA ↑		22 ↑ IDA ↑		4	2	REPLACE EXISTING FACES
24	NW SE	G ↑ G →		G ↑ G →		4	1	REPLACE EXISTING FACES
25	NE SW	FBO ↑ ← IDA		FBO ↑ ← IDA		4	2	REPLACE EXISTING FACES
26	NW SE	G 22-4	22-4		G	5		NEW SIGN
27	NW SE	E 22-4 18 ↑	22-4		E	5	2	REPLACE EXISTING FACES
28	NW SE	F ← G →		← G →	F	4	2	REPLACE EXISTING FACES
29	NE SW	← F		← F		2	1	REPLACE EXISTING FACES
30	NE SW	F →		F →		2	1	REPLACE EXISTING FACES



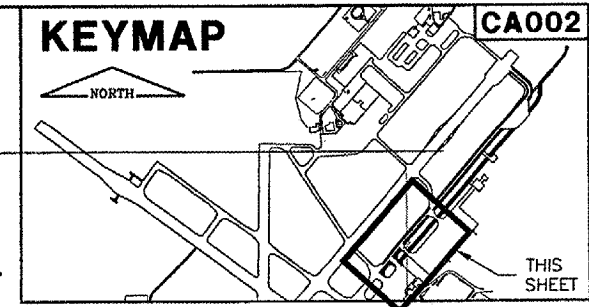
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**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**AIRFIELD SIGNAGE DETAIL**

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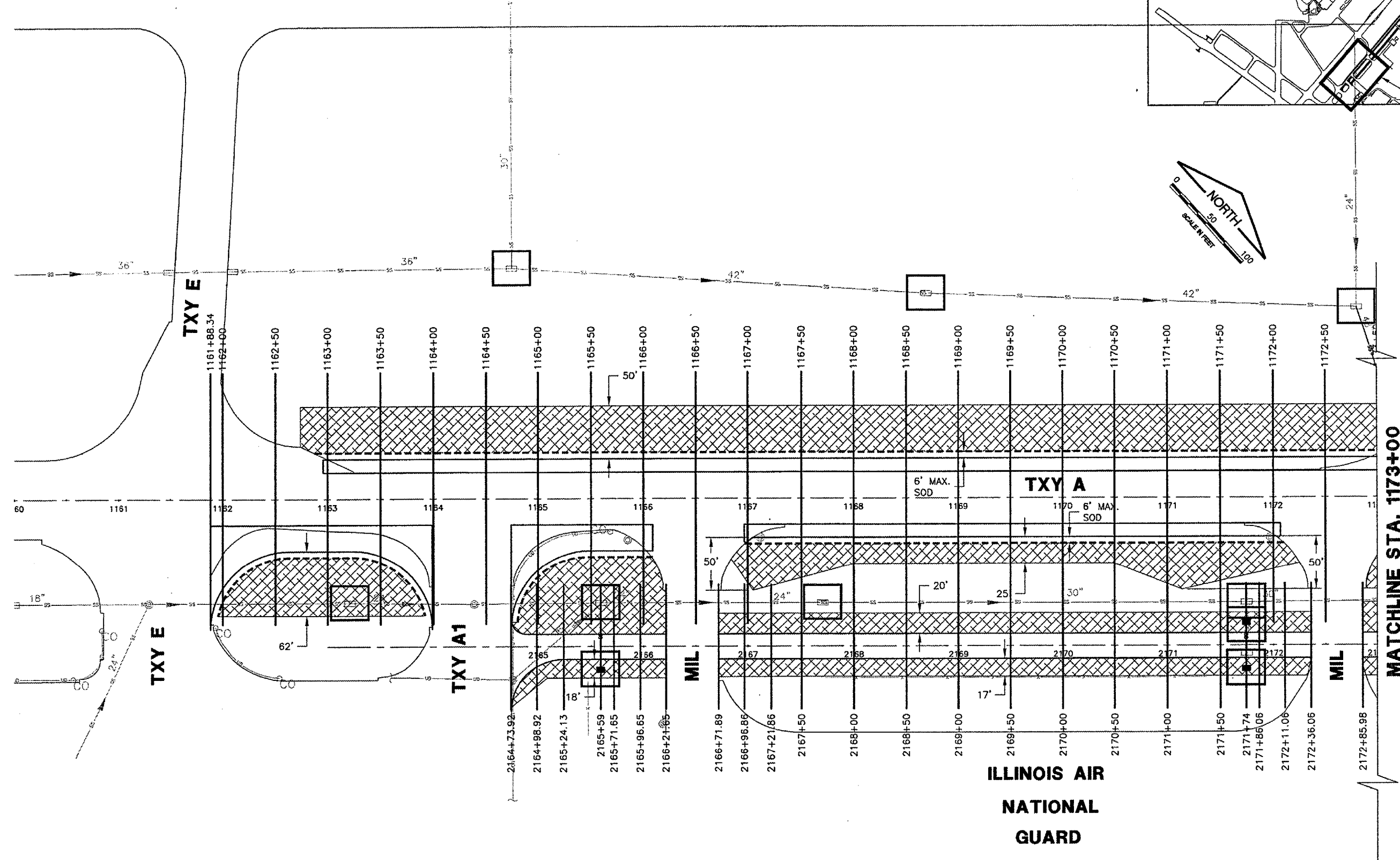
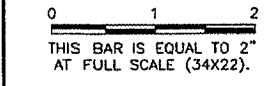
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 APPROVED BY: *PCW*  
 DATE: 1/23/06  
 JOB No: 0503507  
 ILL. PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0098-44  
 SHEET 60 OF 83 SHEETS



CA002  
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 BASE\_PROPDRAIN

REVISIONS		
NUMBER	BY	DATE



**ILLINOIS AIR  
 NATIONAL  
 GUARD**

**MATCHLINE STA. 1173+00**

**LEGEND**

2168+50	—	CROSS SECTION
		NEW SEEDING & MULCHING
		NEW SOD LIMITS
		INLET PROTECTION



**SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS**

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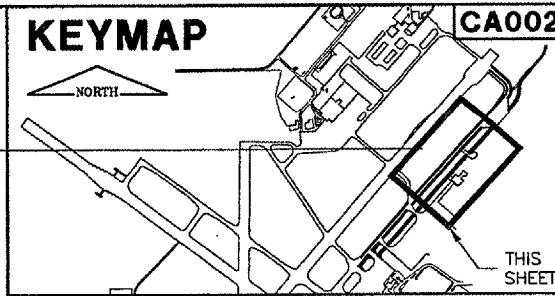
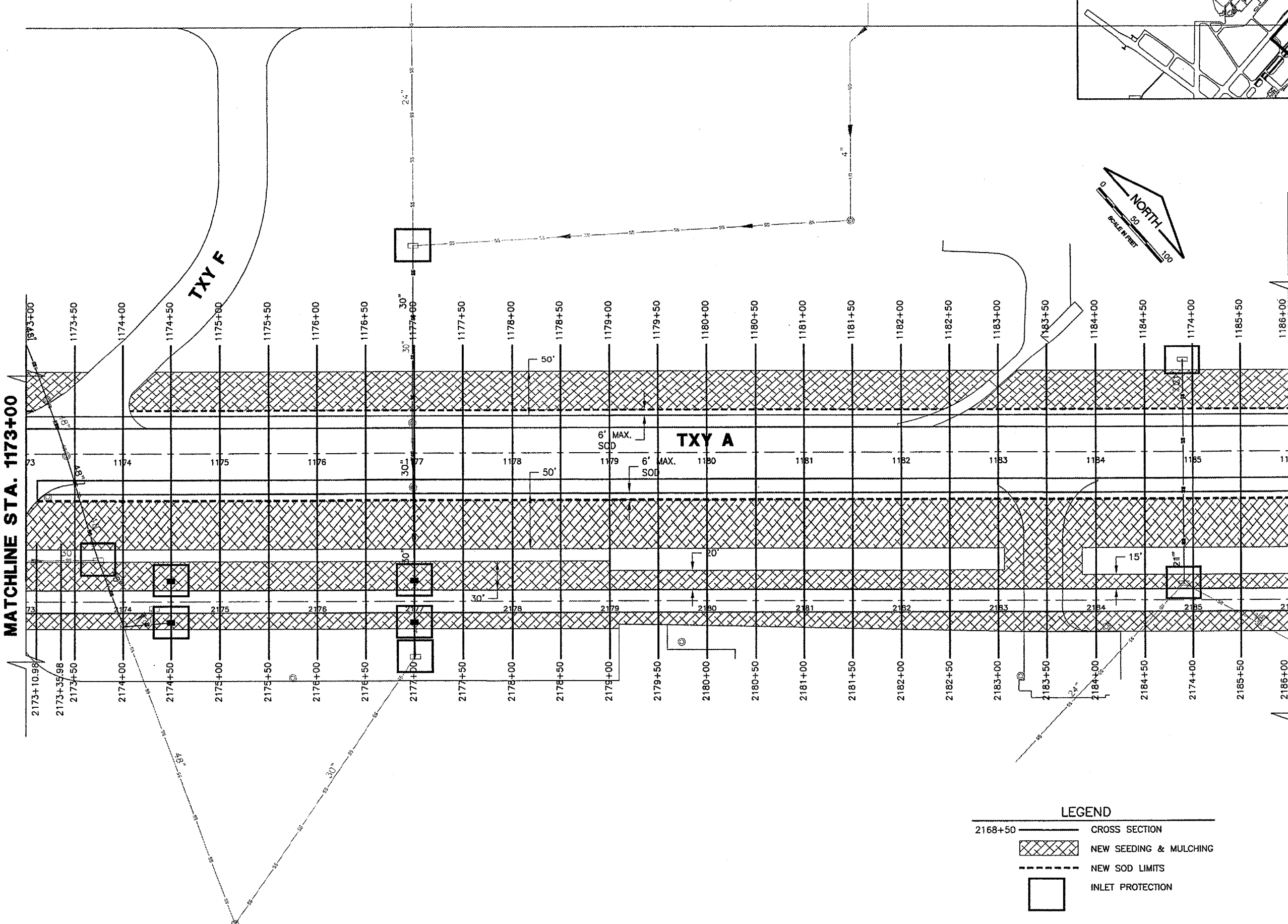
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IL. PROJ. NO. SPI-3555  
 AIP PROJ. NO. 3-17-0096-44

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 INDEX TO CROSS SECTION - TURFING PLAN 1**

MATCHLINE STA. 1173+00

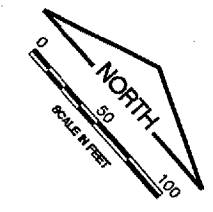
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BASE\_EXISTOPO  
BASE\_PROPTURF  
BASE\_PROPDRAIN

REVISIONS		
NUMBER	BY	DATE

0 1 2  
THIS BAR IS EQUAL TO 2"  
AT FULL SCALE (34X22).



LEGEND

	CROSS SECTION
	NEW SEEDING & MULCHING
	NEW SOD LIMITS
	INLET PROTECTION

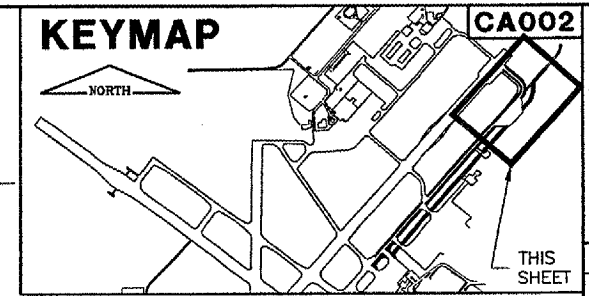
SPRINGFIELD AIRPORT AUTHORITY  
ABRAHAM LINCOLN CAPITAL AIRPORT  
SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
INDEX TO CROSS SECTIONS - TURFING PLAN 2

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APPROVED BY: *RW*  
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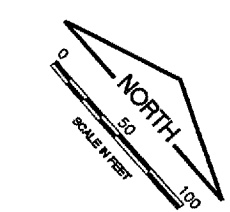
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AIP PROJ. NO. 3-17-0096-44  
SHEET 62 OF 83 SHEETS



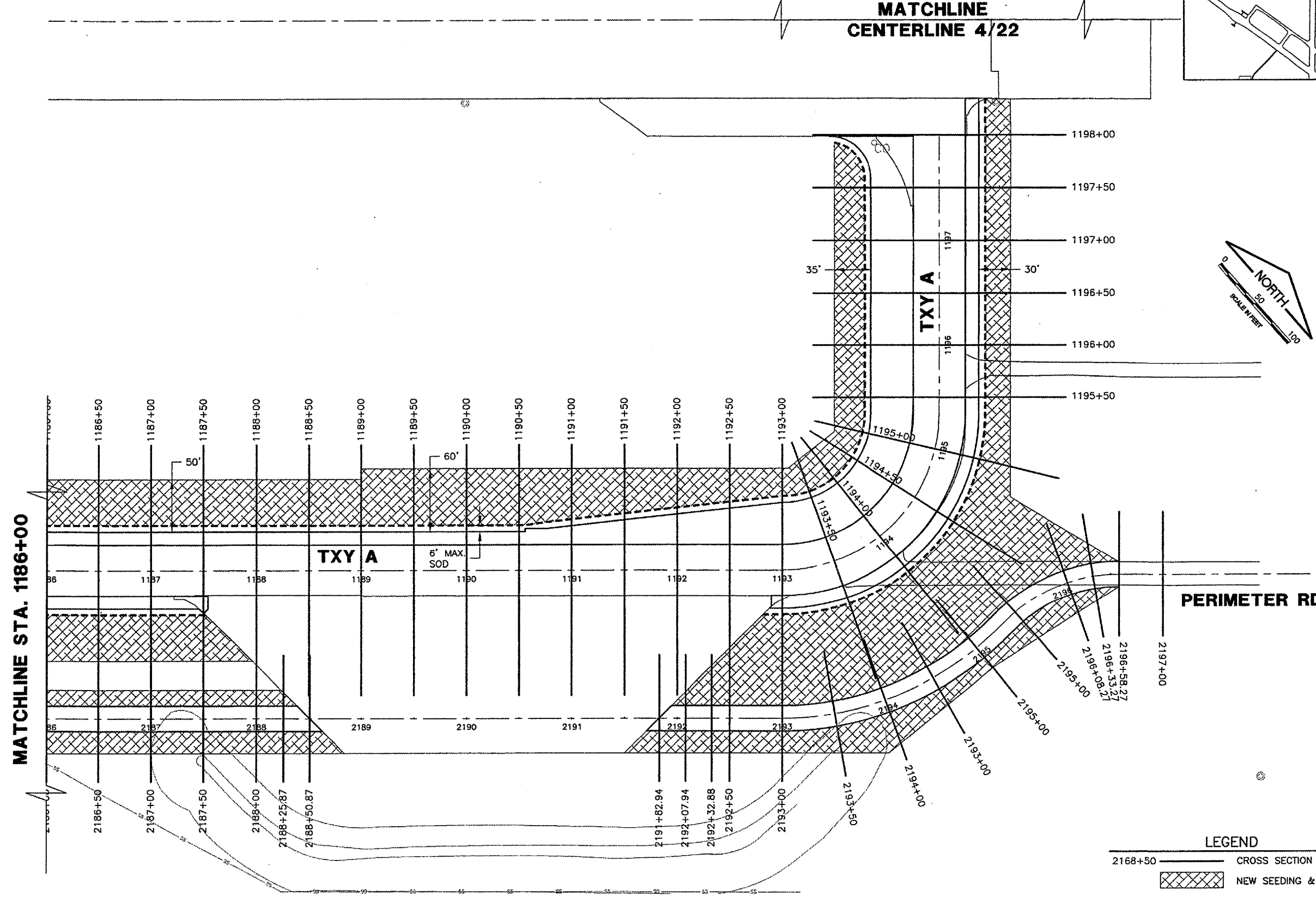
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0 1 2  
 THIS BAR IS EQUAL TO 2"  
 AT FULL SCALE (34X22).



MATCHLINE  
 CENTERLINE 4/22



MATCHLINE STA. 1186+00

PERIMETER RD.

**LEGEND**

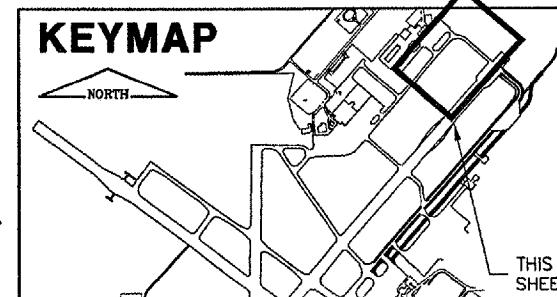
2168+50	CROSS SECTION
	NEW SEEDING & MULCHING
	NEW SOD LIMITS
	INLET PROTECTION

SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

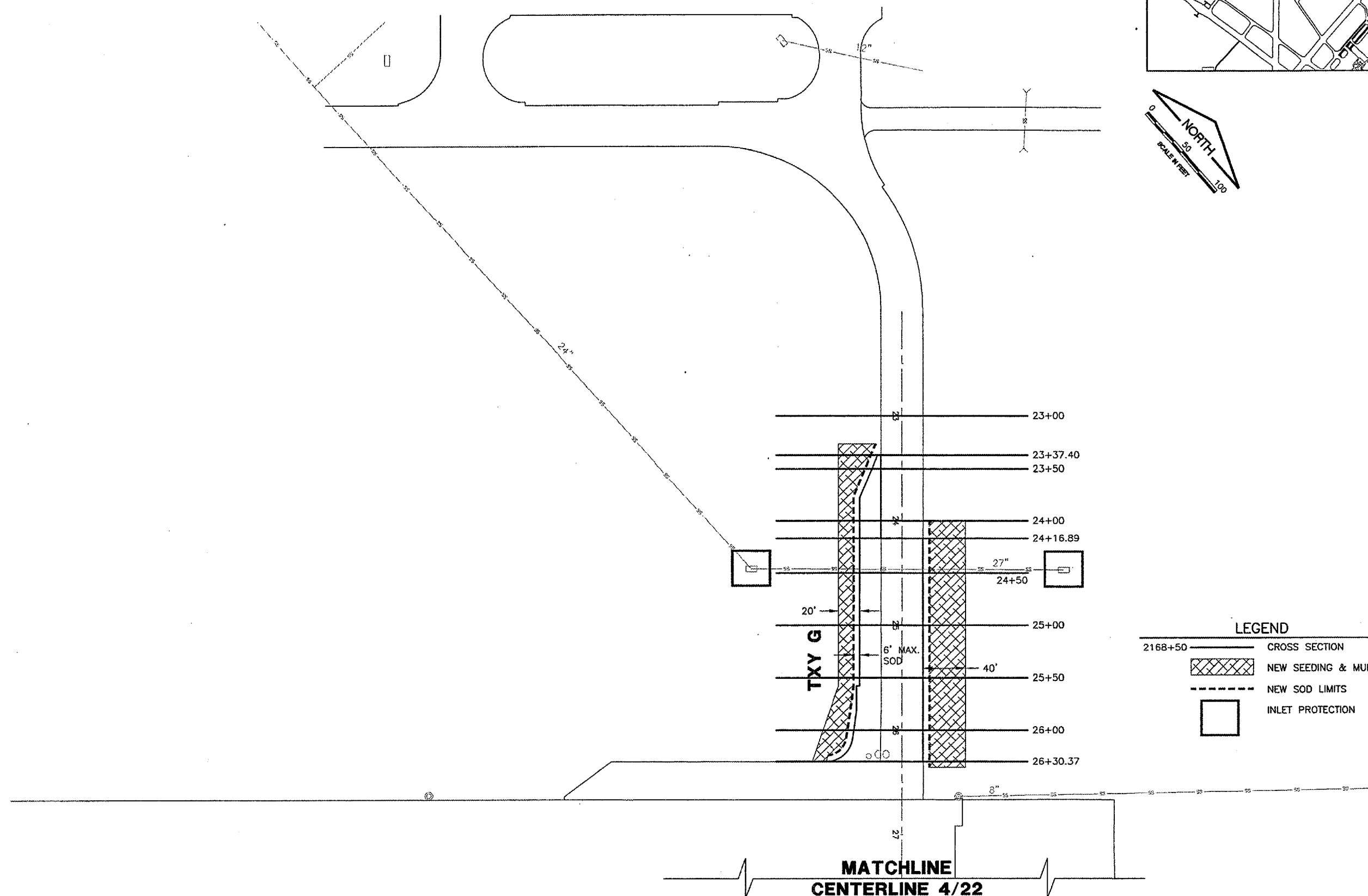
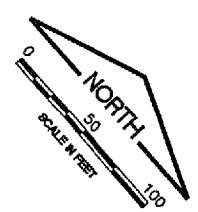
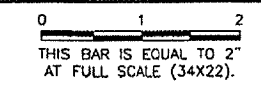
WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 INDEX TO CROSS SECTIONS - TURFING PLAN 3

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JOB No:	0503507
IL PROJ. NO.	SPI-3555
AIP PROJ. NO.	3-17-0096-44
SHEET	63 OF 83 SHEETS




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**LEGEND**

2168+50	—	CROSS SECTION
		NEW SEEDING & MULCHING
	- - -	NEW SOD LIMITS
		INLET PROTECTION

**MATCHLINE**  
**CENTERLINE 4/22**

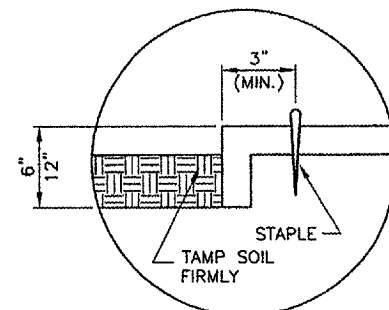
  
**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**INDEX TO CROSS SECTIONS - TURFING PLAN 4**

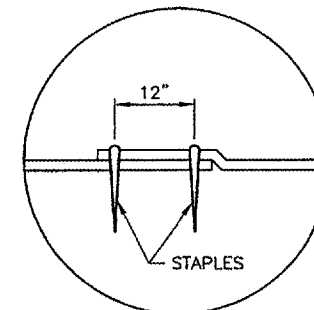
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 SHEET 64 OF 83 SHEETS

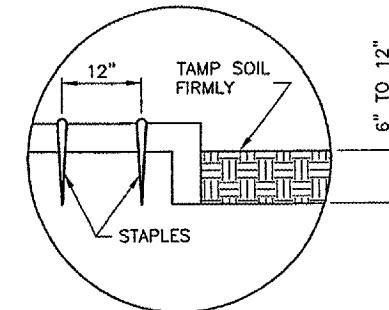




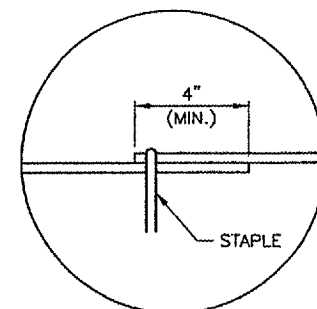
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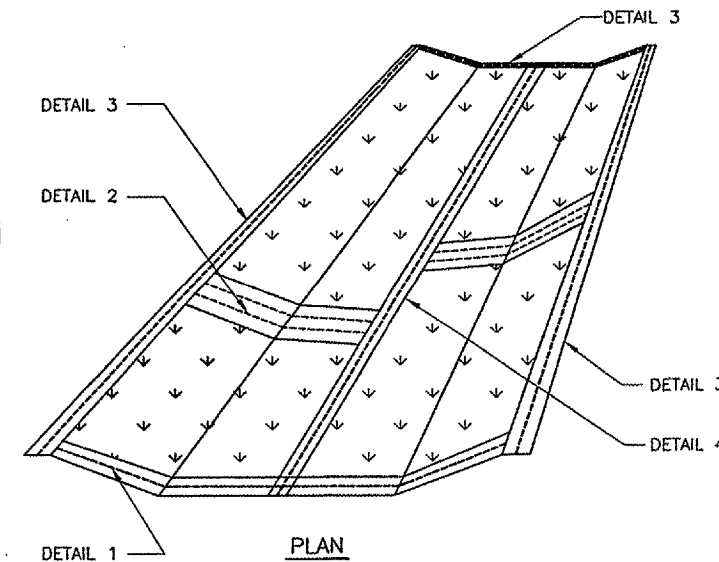
DETAIL 2 - JUNCTION SLOT



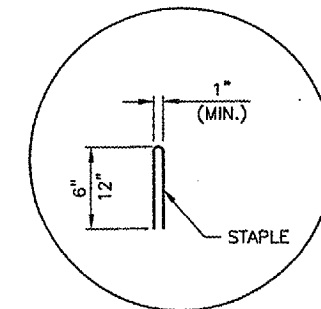
DETAIL 3 - ANCHOR SLOT



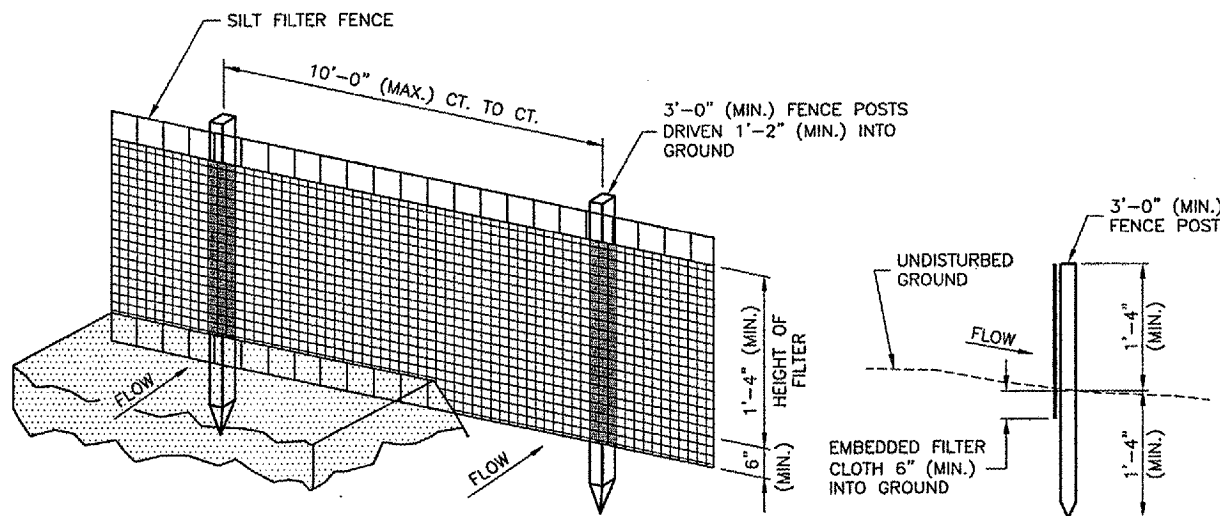
DETAIL 4 - LAP JOINT



EXCELSIOR BLANKET DETAILS  
 N.T.S.



DETAIL 5 - STAPLE DETAIL



PERSPECTIVE VIEW

SECTION

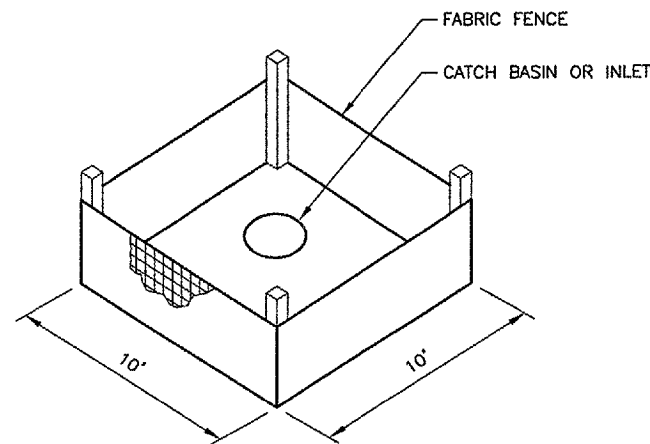
EROSION CONTROL FABRIC FENCE DETAIL  
 N.T.S.

NOTES

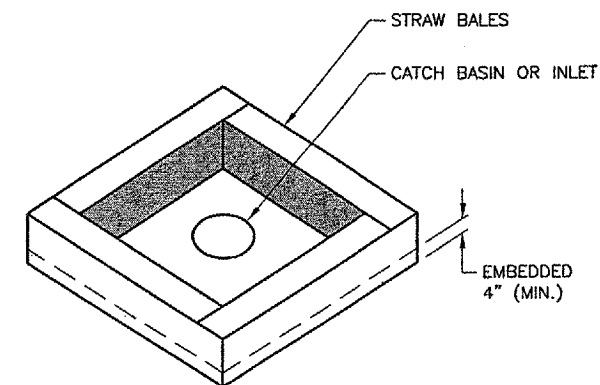
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 2'-0" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" MINIMUM AND FOLDED.
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.

NOTES

1. STAPLES TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART.
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.



INLET PROTECTION WITH FABRIC  
 N.T.S.



INLET PROTECTION WITH STRAW BALES  
 N.T.S.

REVISIONS		
NUMBER	BY	DATE

0 1 2  
 THIS BAR IS EQUAL TO 2"  
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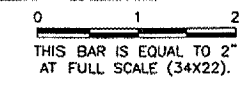
SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
 EROSION CONTROL DETAILS

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SHEET	65 OF 83 SHEETS

REVISIONS		
NUMBER	BY	DATE



**EARTHWORK SUMMARY**

STATION	EXCAVATE END AREA (S.F.)	EMBANK END AREA (S.F.)
<b>TAXIWAY A</b>		
1161+88.34	74.9	0.1
1162+00.00	48.5	0.0
1162+50.00	26.6	0.0
1163+00.00	29.4	1.6
1163+50.00	41.3	2.7
1164+00.00	16.2	2.5
1164+50.00	16.6	1.3
1165+00.00	51.1	0.5
1165+50.00	56.7	0.6
1166+00.00	25.0	1.0
1166+50.00	19.4	2.6
1167+00.00	40.8	0.8
1167+50.00	21.4	2.2
1168+00.00	20.8	5.5
1168+50.00	29.6	6.3
1169+00.00	32.1	5.3
1169+50.00	31.9	4.9
1170+00.00	32.1	4.2
1170+50.00	22.8	3.7
1171+00.00	32.8	2.8
1171+50.00	29.3	1.2
1172+00.00	25.2	0.4
1172+50.00	21.8	0.6
1173+00.00	1.7	0.0
1173+50.00	13.1	0.5
1174+00.00	14.1	2.9
1174+50.00	36.4	1.1
1175+00.00	24.9	2.2
1175+50.00	22.9	6.1
1176+00.00	26.6	1.9
1176+50.00	24.6	2.0
1177+00.00	38.1	1.2
1177+50.00	23.8	3.2
1178+00.00	30.3	1.9
1178+50.00	34.2	1.2
1179+00.00	38.9	1.5
1179+50.00	35.1	2.5
1180+00.00	24.0	2.9
1180+50.00	33.5	3.1
1181+00.00	21.8	3.9
1181+50.00	29.1	6.3
1182+00.00	29.9	3.5
1182+50.00	14.1	3.0

**EARTHWORK SUMMARY**

STATION	EXCAVATE END AREA (S.F.)	EMBANK END AREA (S.F.)
<b>TAXIWAY A</b>		
1183+00.00	27.7	0.5
1183+50.00	15.9	1.0
1184+00.00	25.4	18.0
1184+50.00	28.4	23.6
1185+00.00	26.0	29.6
1185+50.00	34.1	32.6
1186+00.00	21.5	39.8
1186+50.00	22.1	35.9
1187+00.00	35.3	18.8
1187+50.00	25.9	0.9
1188+00.00	18.8	1.6
1188+50.00	18.6	1.5
1189+00.00	26.2	0.3
1189+50.00	22.7	0.5
1190+00.00	31.0	0.2
1190+50.00	32.4	0.8
1191+00.00	32.4	0.5
1191+50.00	35.1	0.5
1192+00.00	36.2	1.1
1192+50.00	37.3	3.7
1193+00.00	64.1	0.8
1193+50.00	76.3	0.2
1194+00.00	111.7	0.5
1194+50.00	115.6	3.8
1195+00.00	17.1	11.9
1195+50.00	25.3	27.7
1196+00.00	76.9	33.3
1196+50.00	75.5	31.8
1197+00.00	79.6	26.9
1197+50.00	75.7	37.9
1198+00.00	1.9	2.7

**EARTHWORK SUMMARY**


STATION	EXCAVATE END AREA (S.F.)	EMBANK END AREA (S.F.)
<b>PERIMETER ROAD</b>		
2164+73.92	71.7	0.0
2164+98.92	35.7	0.0
2165+24.13	33.4	0.1
2165+59.00	35.2	3.4
2165+71.65	33.5	4.2
2165+96.65	16.7	2.1
2166+21.65	19.9	0.0
2166+71.89	20.0	0.0
2166+98.86	10.1	2.9
2167+21.86	8.4	6.1
2167+50.00	18.9	8.4
2168+00.00	38.2	0.0
2168+50.00	39.8	0.0
2169+00.00	30.7	0.1
2169+50.00	28.9	0.2
2170+00.00	32.1	0.0
2170+50.00	32.2	0.0
2171+00.00	32.1	0.0
2171+50.00	21.6	0.5
2171+74.00	5.5	16.5
2171+86.06	4.5	13.6
2172+11.06	16.6	1.3
2172+36.06	20.0	0.0
2172+85.98	20.0	0.0
2173+10.98	25.2	0.0
2173+35.98	25.9	0.2
2173+50.00	20.9	0.8
2174+00.00	3.5	19.8
2174+50.00	3.0	34.3
2175+00.00	19.6	2.4
2175+50.00	51.7	0.0
2176+00.00	66.3	0.0
2176+50.00	60.2	0.0
2177+00.00	59.7	0.0
2177+50.00	37.0	0.5
2178+00.00	18.0	1.6
2178+50.00	5.2	3.4
2179+00.00	32.1	0.7
2179+50.00	47.6	0.0
2180+00.00	42.2	0.0
2180+50.00	46.4	0.0
2181+00.00	44.9	0.0
2181+50.00	29.8	0.0

**EARTHWORK SUMMARY**


STATION	EXCAVATE END AREA (S.F.)	EMBANK END AREA (S.F.)
<b>PERIMETER ROAD</b>		
2182+00.00	26.4	0.5
2182+50.00	22.0	0.7
2183+00.00	27.1	0.3
2183+50.00	20.5	125.4
2184+00.00	15.8	1.2
2184+50.00	18.7	0.4
2185+00.00	24.3	0.0
2185+50.00	5.3	4.3
2186+00.00	0.0	20.7
2186+50.00	0.0	52.3
2187+00.00	0.0	49.0
2187+50.00	59.0	46.3
2188+00.00	0.3	17.7
2188+25.87	9.8	2.3
2188+50.87	19.9	0.0
2191+82.94	19.9	0.0
2192+07.94	11.5	4.8
2192+32.88	7.4	9.3
2192+50.00	7.3	17.8
2193+00.00	23.6	20.8
2193+50.00	114.7	18.5
2194+00.00	46.9	12.6
2194+50.00	14.4	1.1
2195+00.00	11.3	2.0
2195+50.00	8.5	2.8
2196+00.00	14.8	3.6
2196+08.27	16.8	3.1
2196+33.27	18.9	4.5
2196+58.27	20.8	0.0

**EARTHWORK SUMMARY**

STATION	EXCAVATE END AREA (S.F.)	EMBANK END AREA (S.F.)
<b>TAXIWAY G</b>		
23+37.40	4.3	0.0
23+50.00	6.0	0.8
24+00.00	15.8	0.3
24+16.89	46.5	0.6
24+50.00	44.1	0.9
25+00.00	37.6	2.2
25+50.00	30.9	0.4
26+00.00	45.4	0.1
26+30.37	92.2	0.0

  
**SPRINGFIELD AIRPORT AUTHORITY**  
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**SPRINGFIELD, ILLINOIS**

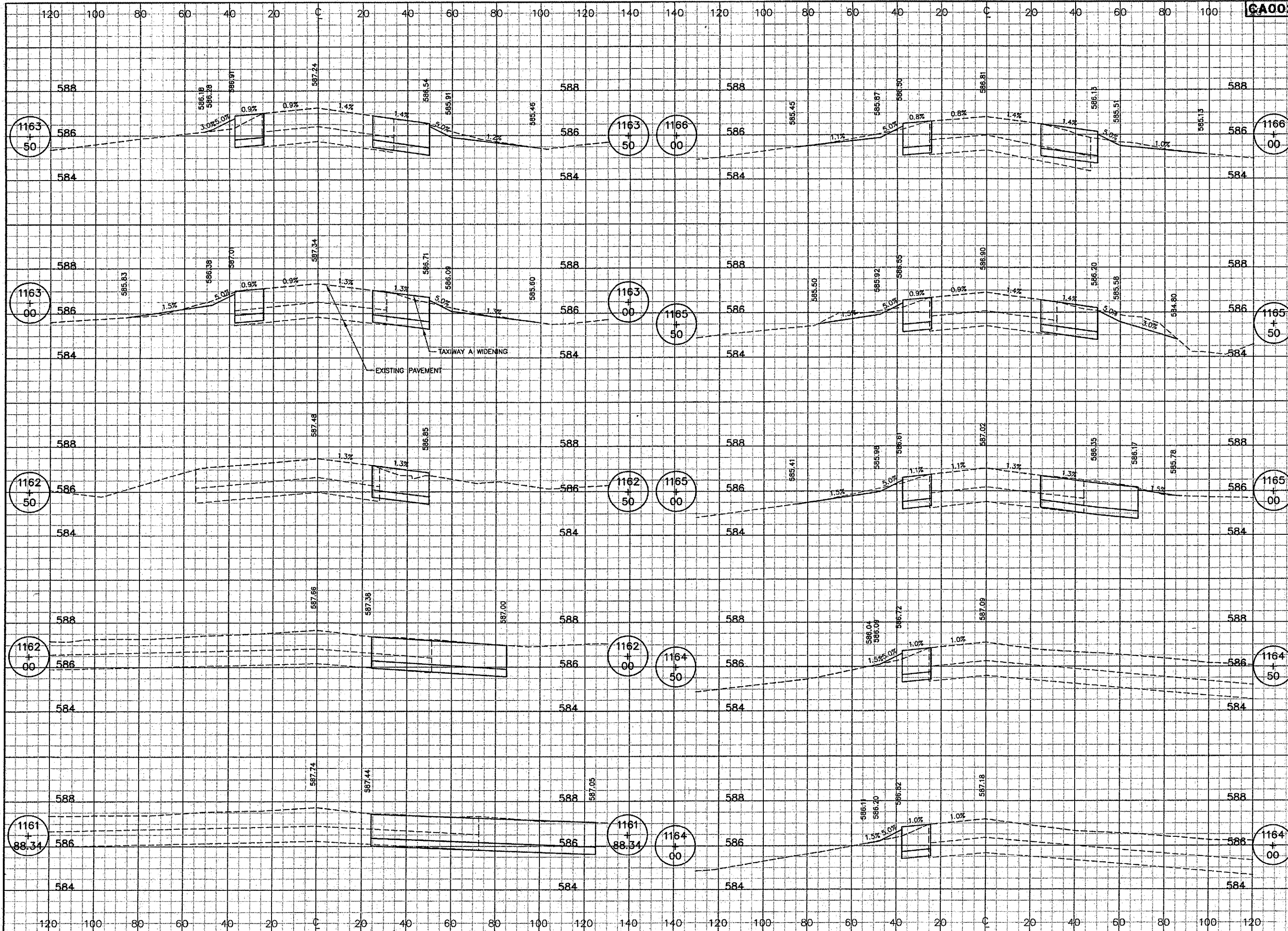
**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**EARTHWORK SUMMARY**

  
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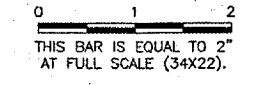
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JOB No:	0503507
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AIP PROJ. NO.	3-17-0096-44
SHEET	66 OF 83 SHEETS

CA002

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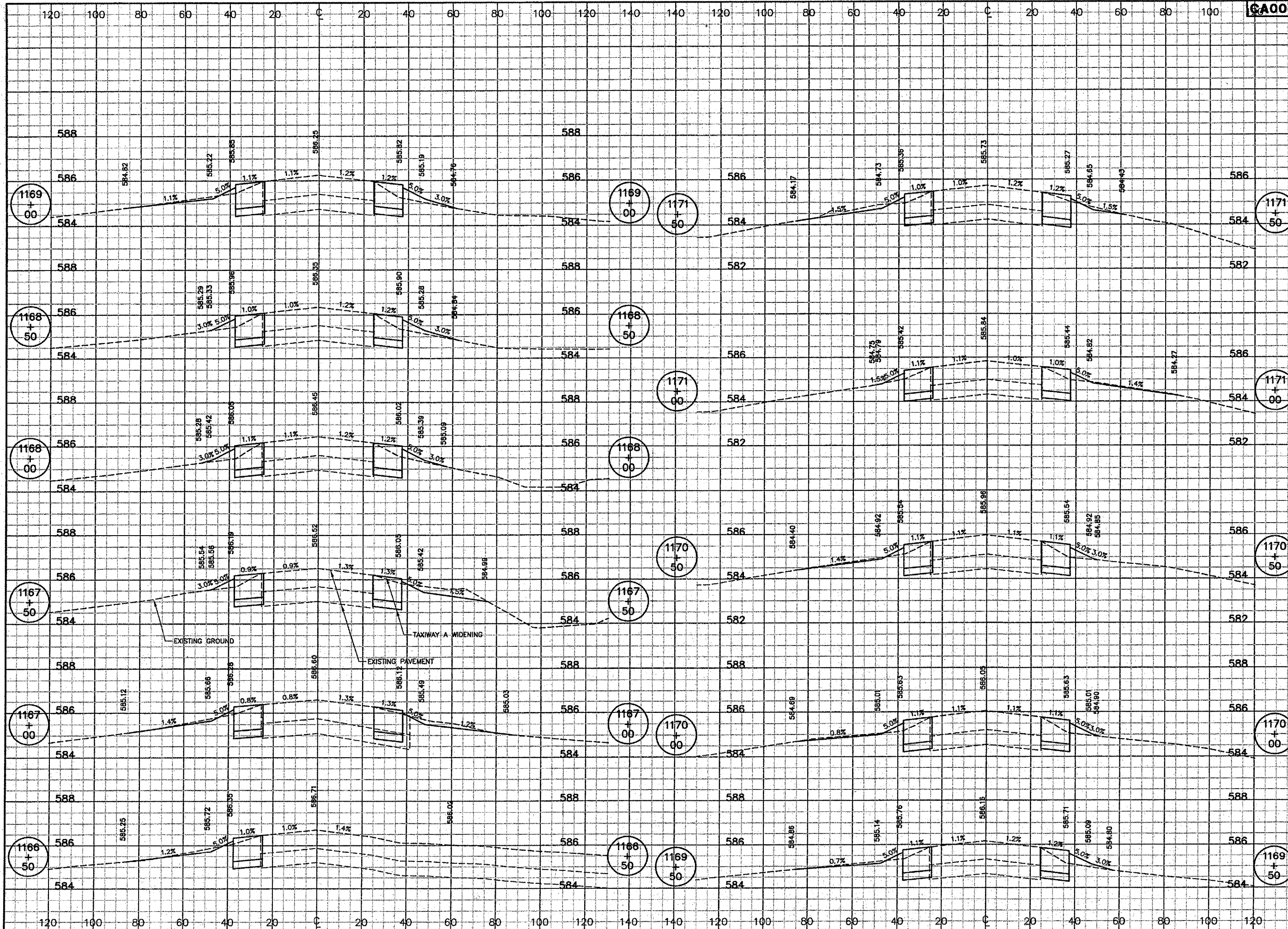
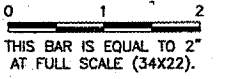
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SPRINGFIELD, ILLINOIS


WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD  
TAXIWAY A CROSS SECTIONS 1  
STA. 1161+88.34 TO STA. 1166+00

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AIP PROJ. NO.	3-17-0096-44
SHEET 67 OF 83 SHEETS	

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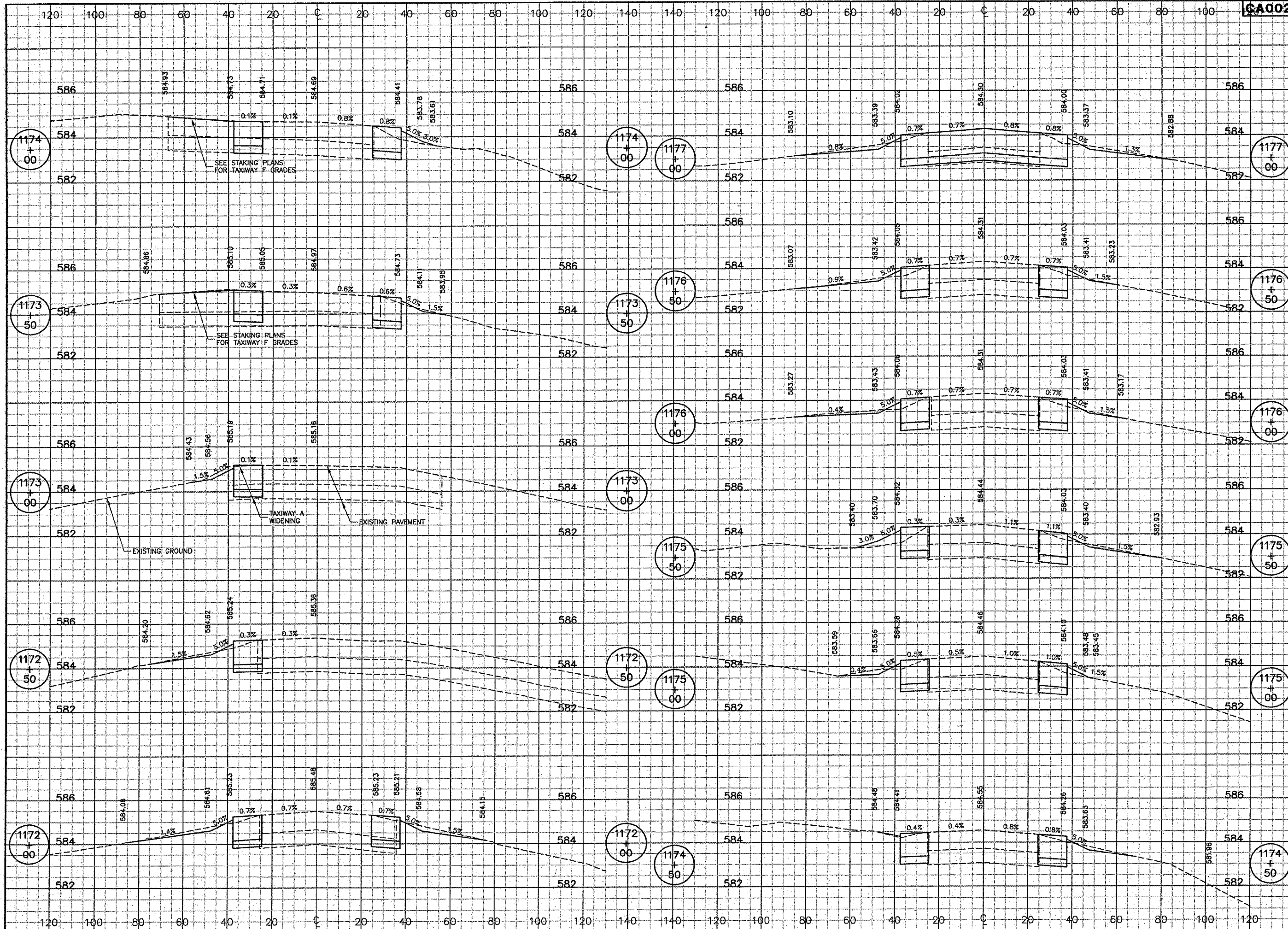


  
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**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

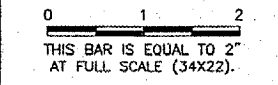
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**TAXIWAY A CROSS SECTIONS 2**  
**STA. 1166+50 TO STA. 1171+50**

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SHEET 68 OF 83 SHEETS	



REVISIONS		
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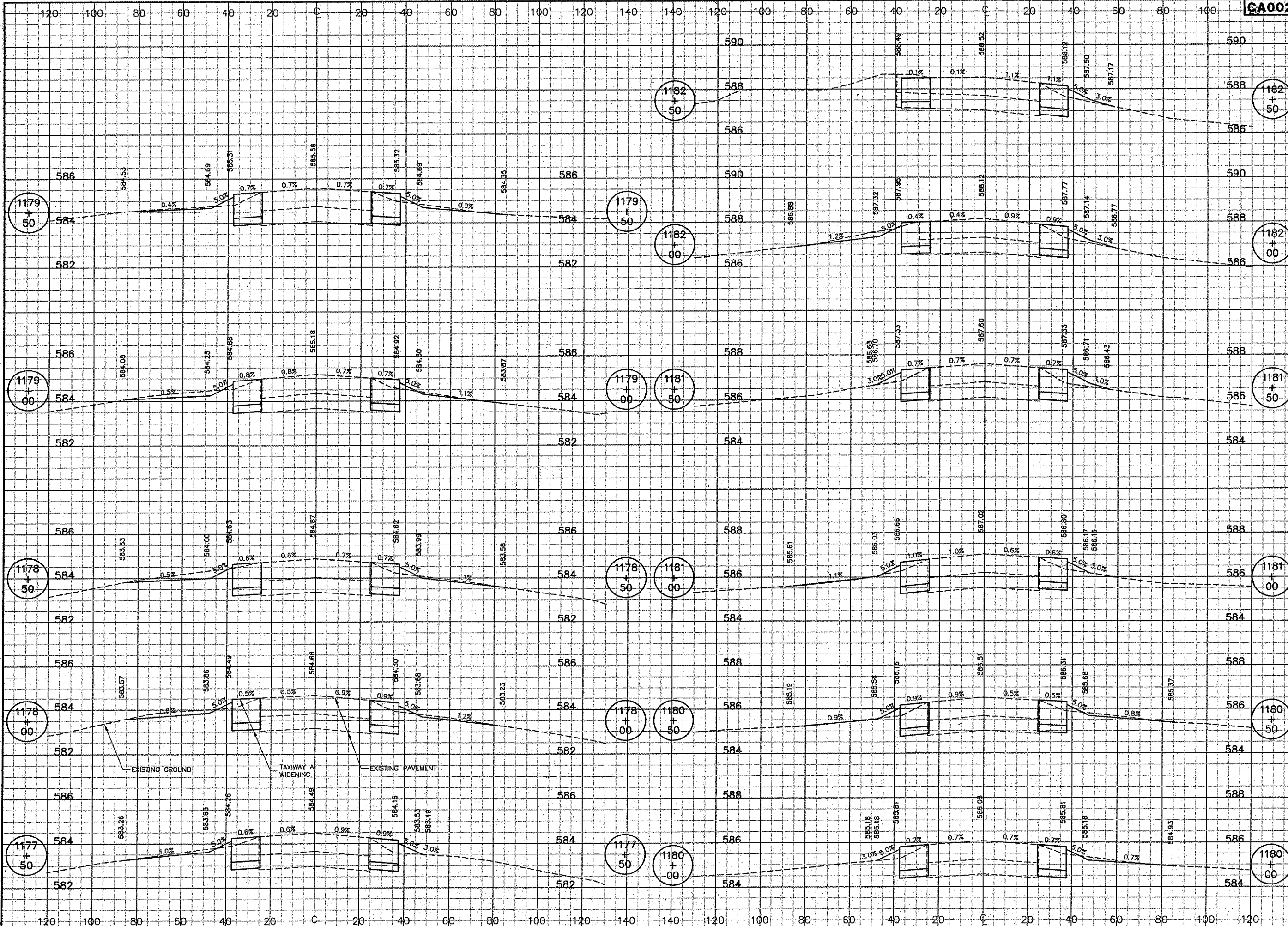
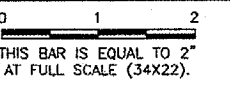
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**TAXIWAY A CROSS SECTIONS 3**  
**STA. 1172+00 TO STA. 1177+00**

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AIP PROJ. NO. 3-17-0096-44	
SHEET 69 OF 83 SHEETS	

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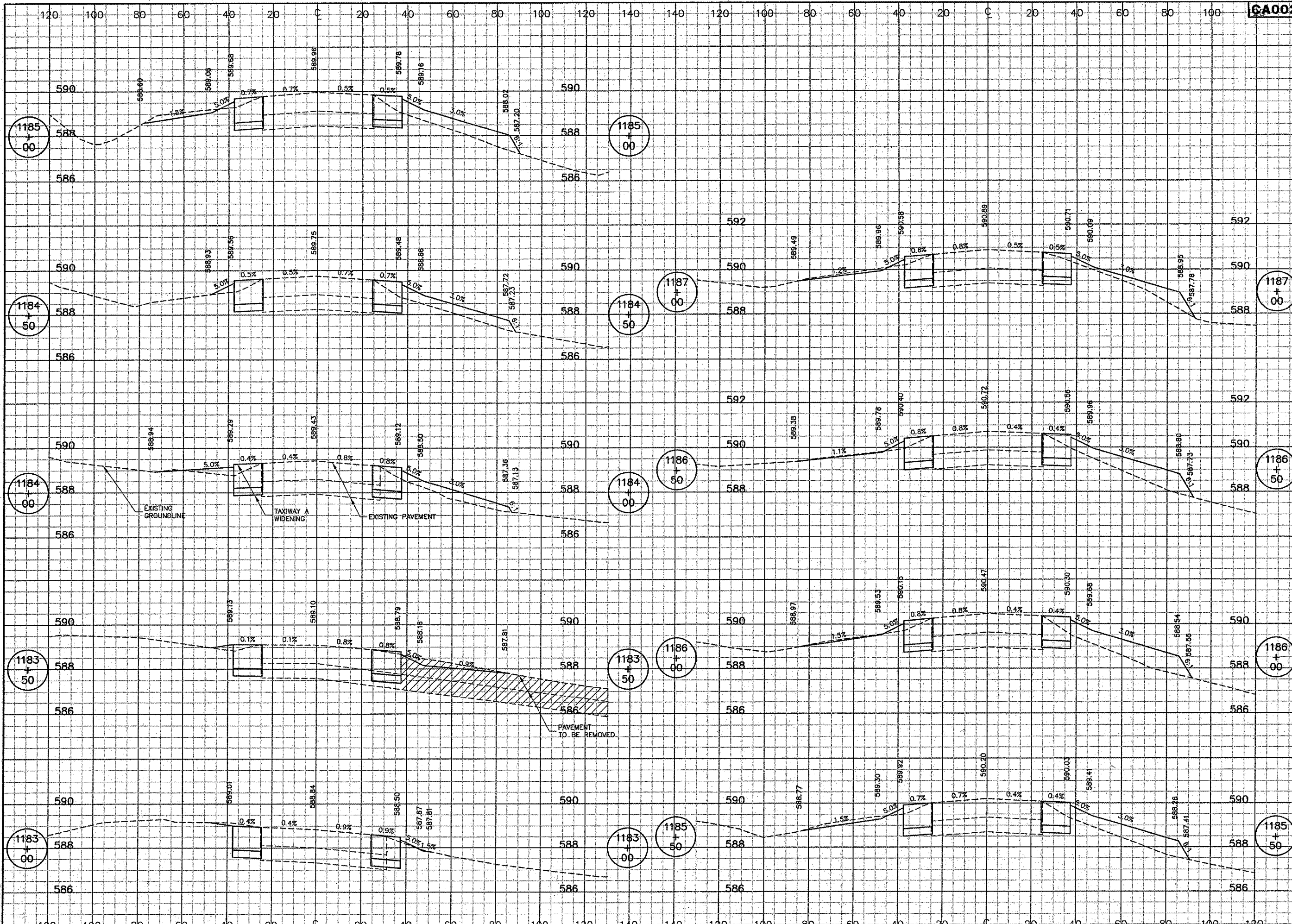
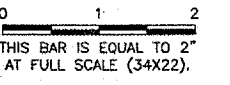
  
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**SPRINGFIELD, ILLINOIS**


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**TAXIWAY A CROSS SECTIONS 4**  
**STA. 1177+50 TO STA. 1182+50**

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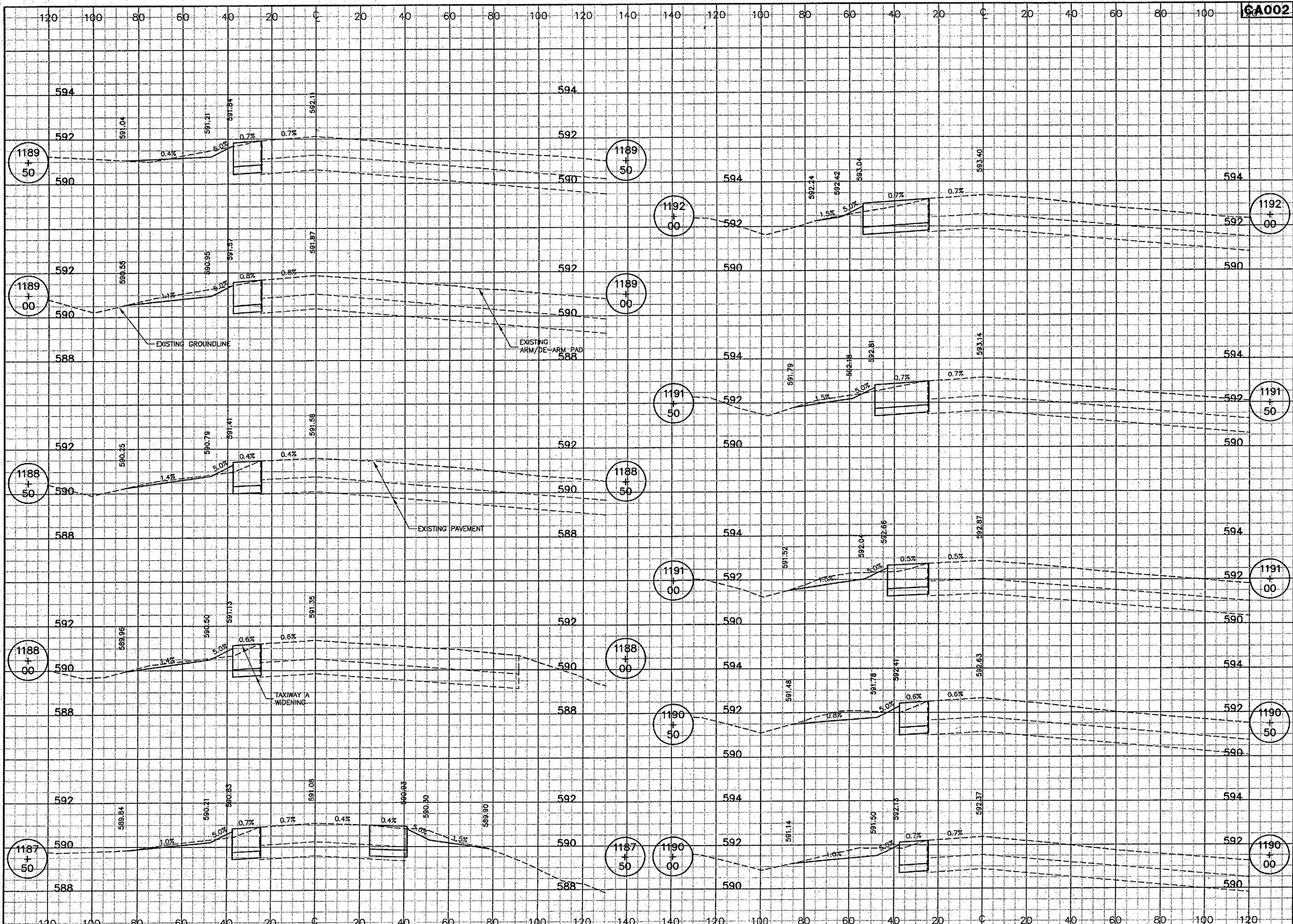
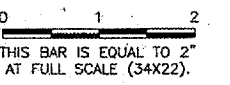
  
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**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**


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**TAXIWAY A CROSS SECTIONS 5**  
**STA. 1183+00 TO STA. 1187+00**

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AIP PROJ. NO:	3-17-0096-44
SHEET	71 OF 83 SHEETS

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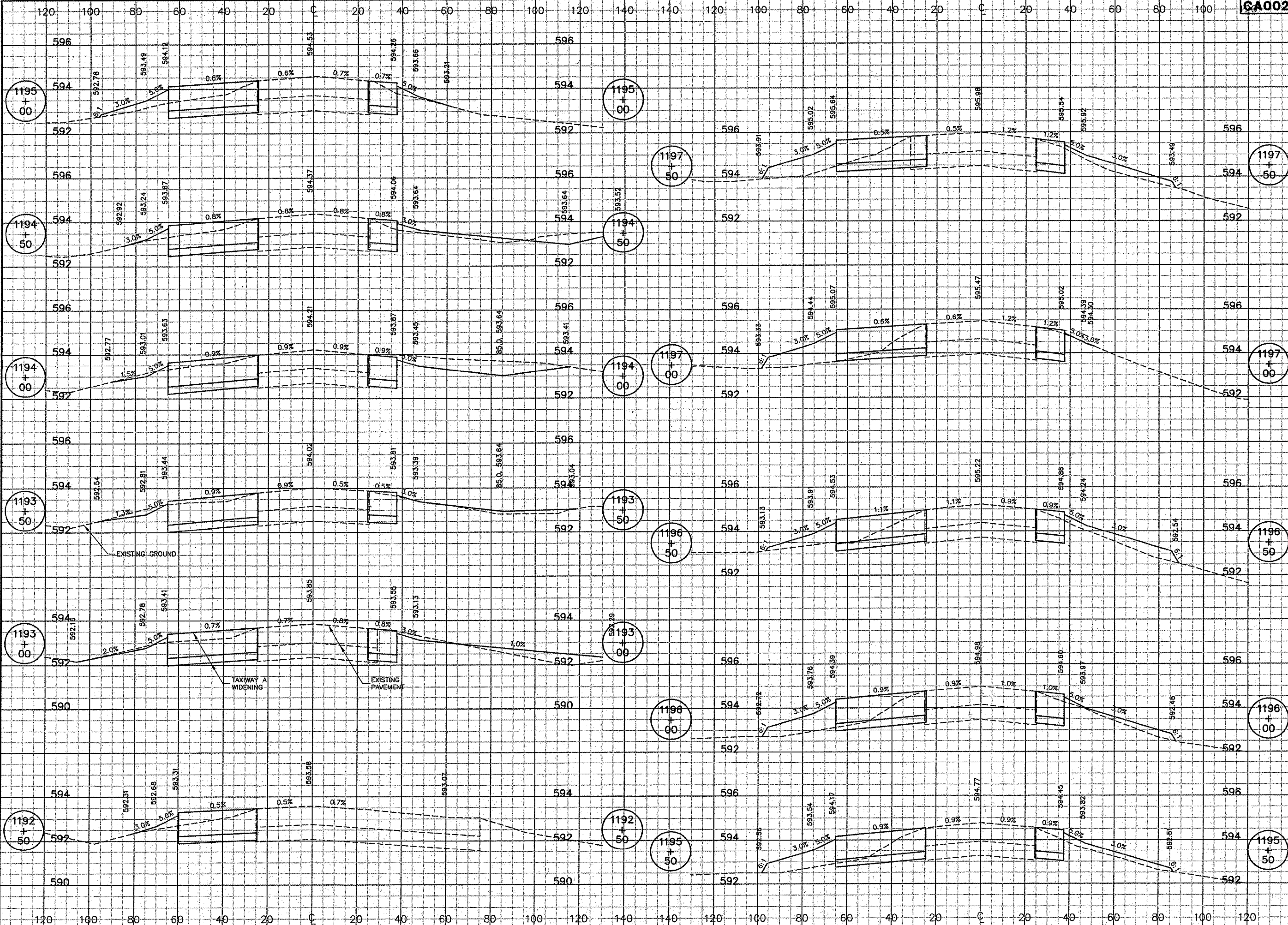
  
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**SPRINGFIELD, ILLINOIS**

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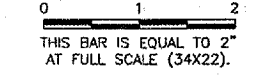
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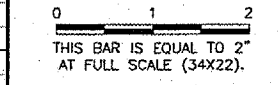
  
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**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
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**STA. 1192+50 TO STA. 1197+50**

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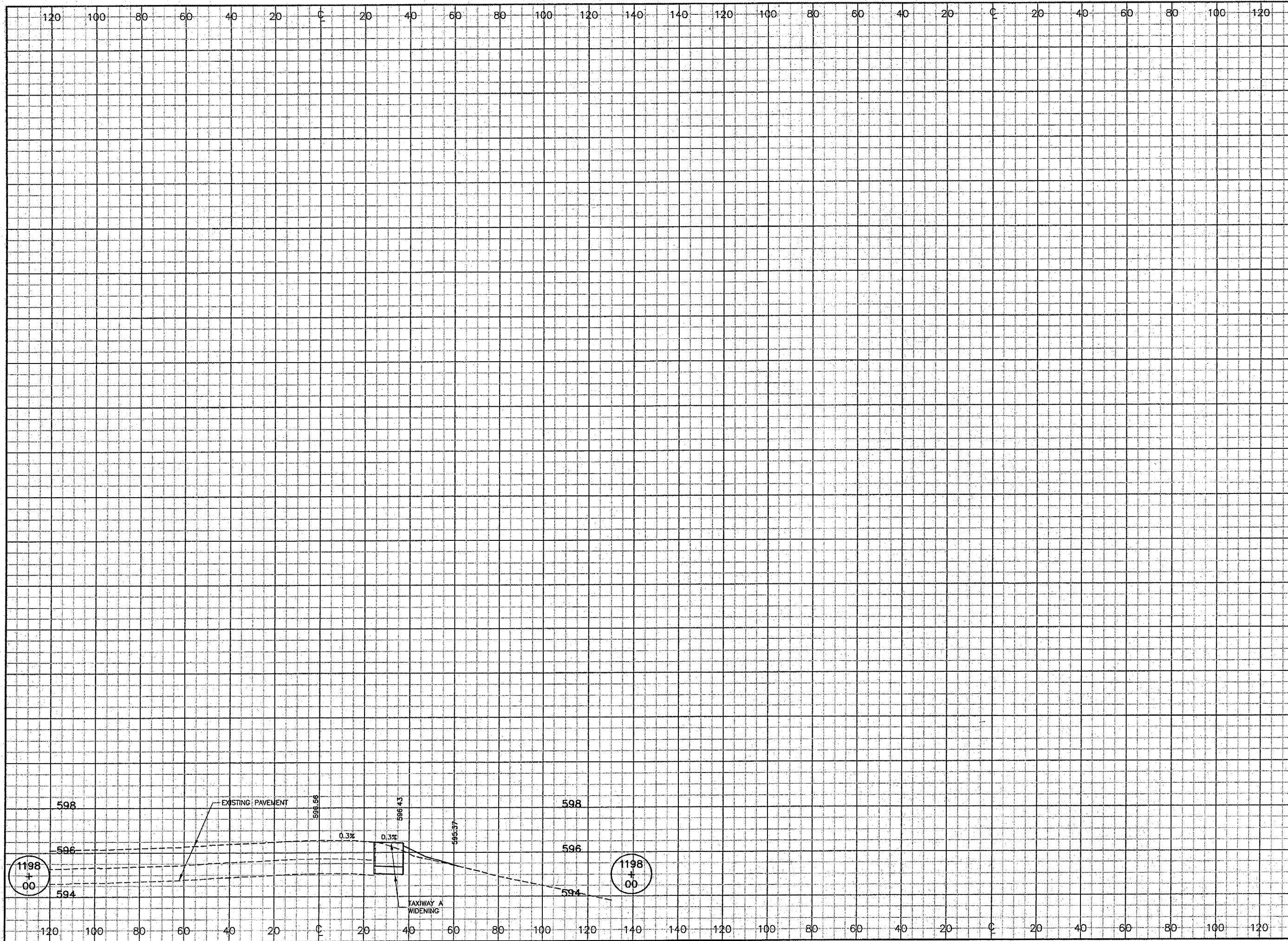
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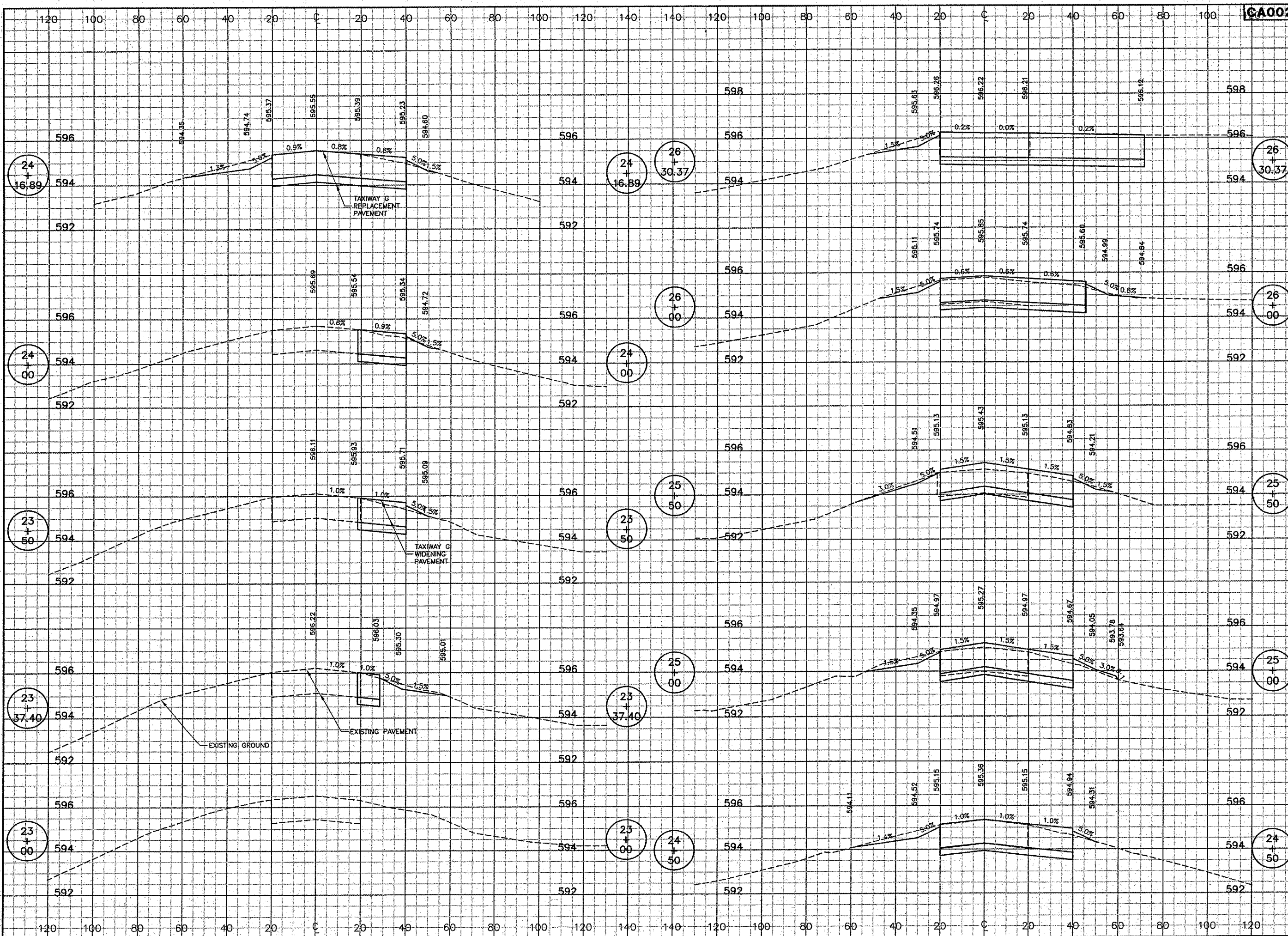
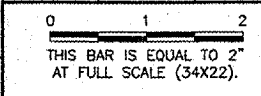
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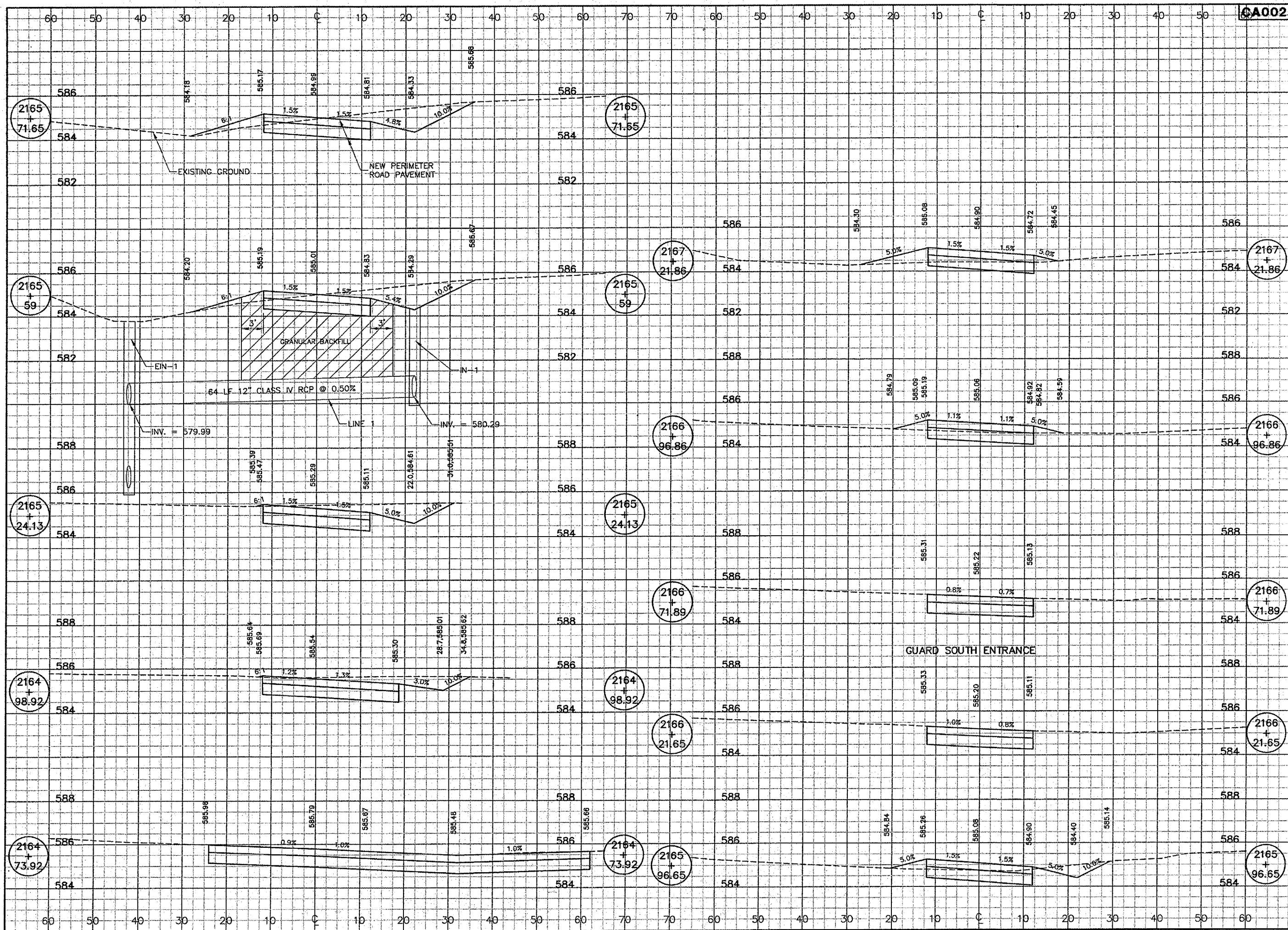
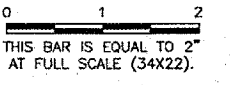
  
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**TAXIWAY G CROSS SECTIONS 1**  
**STA. 23+00 TO STA. 26+30.37**

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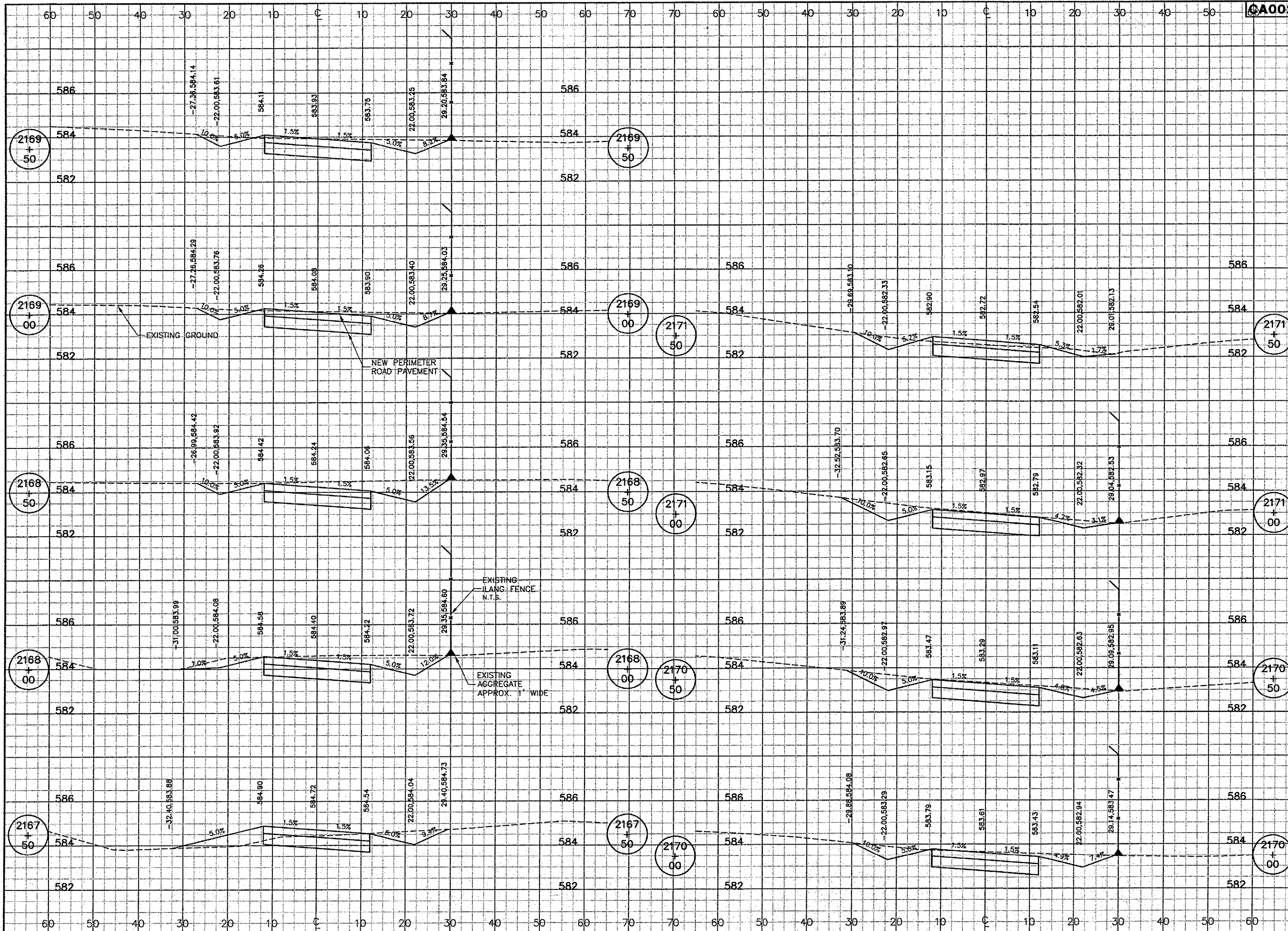
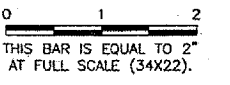
  
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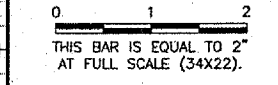
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 SHEET 77 OF 83 SHEETS

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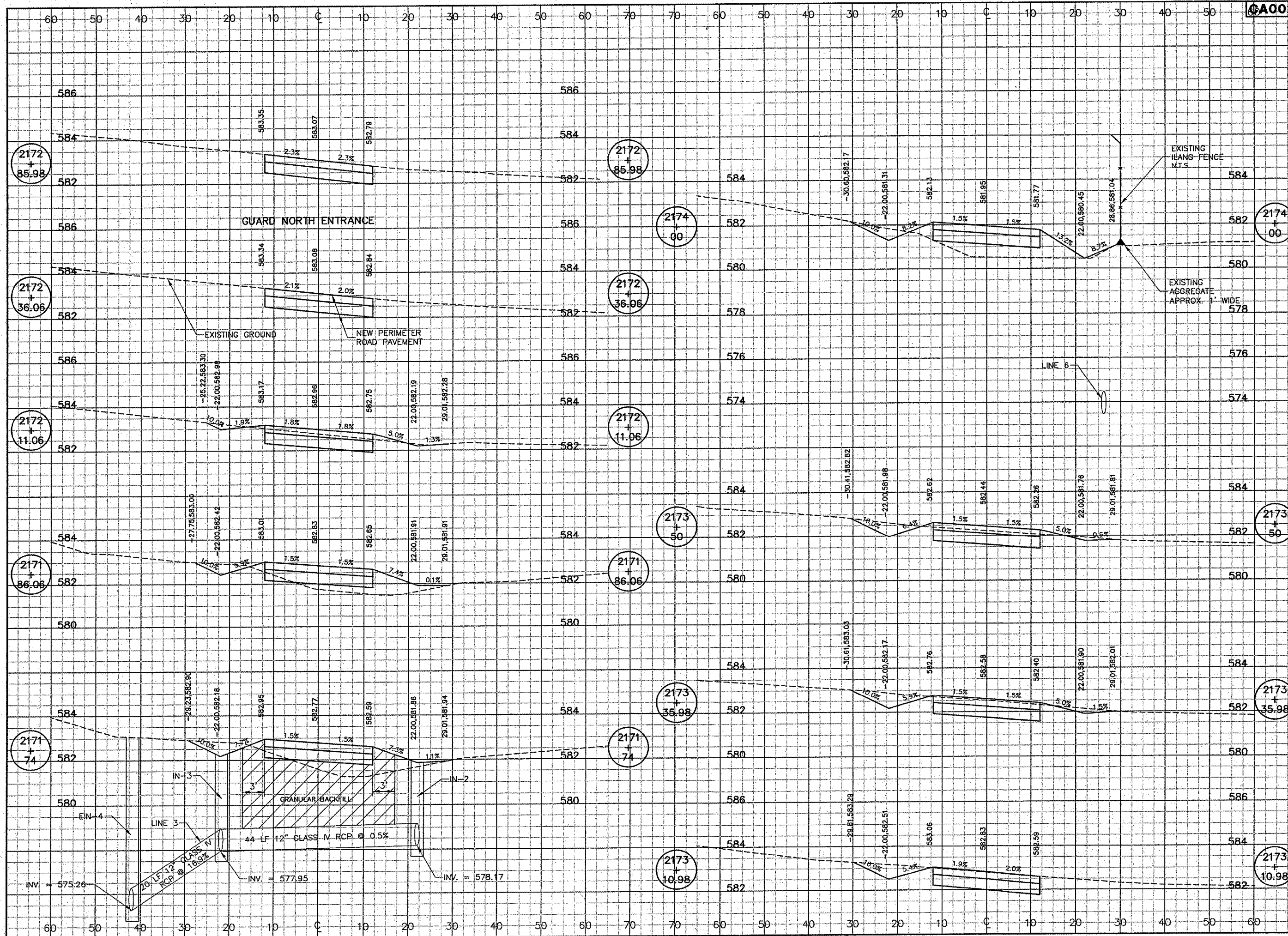
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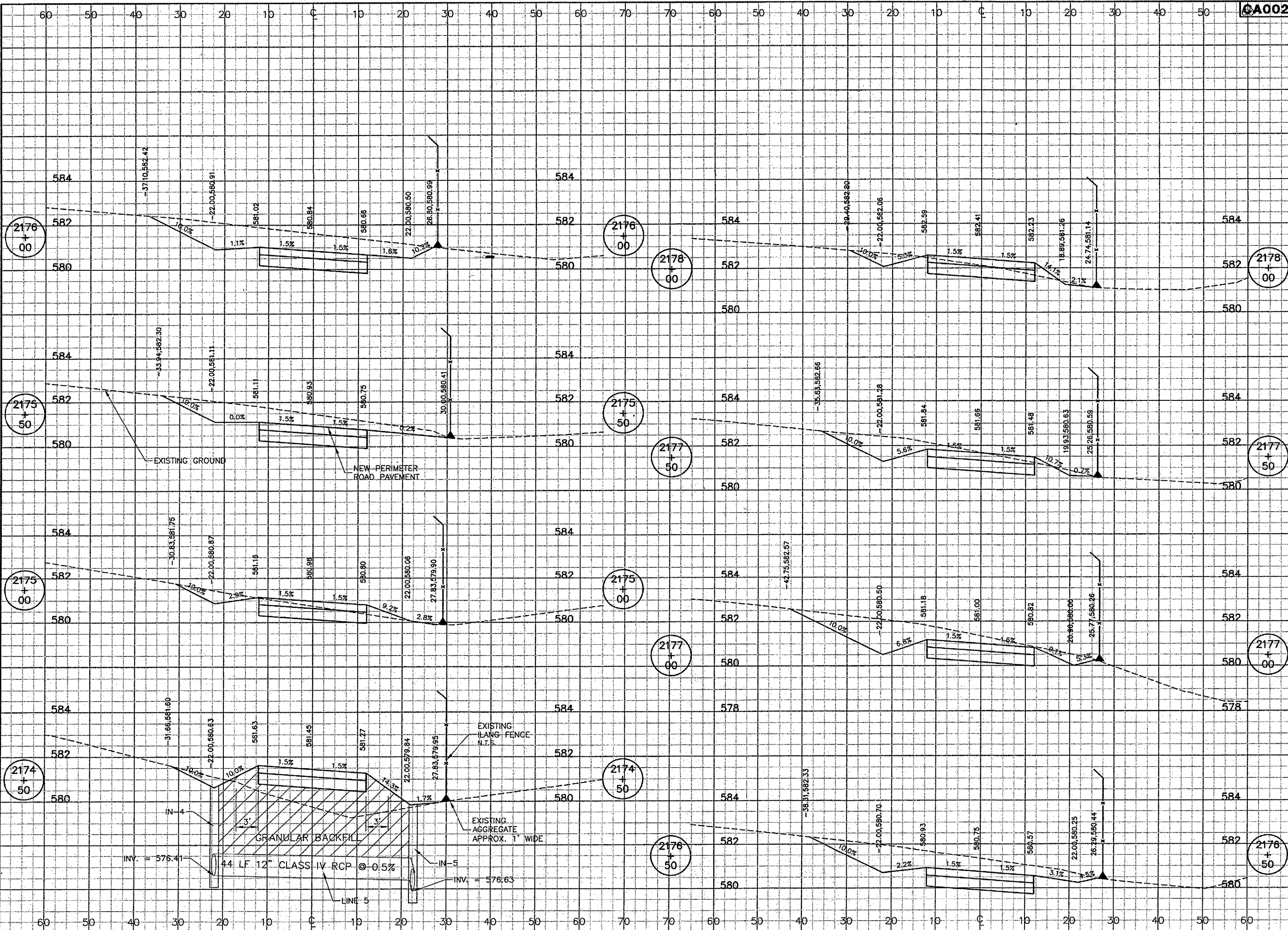
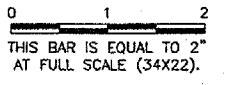
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**WIDEN TAXIWAY A - CONSTRUCT PERIMETER ROAD**  
**PERIMETER RD CROSS SECTIONS 4**  
**STA. 2174+50 TO STA. 2178+00**

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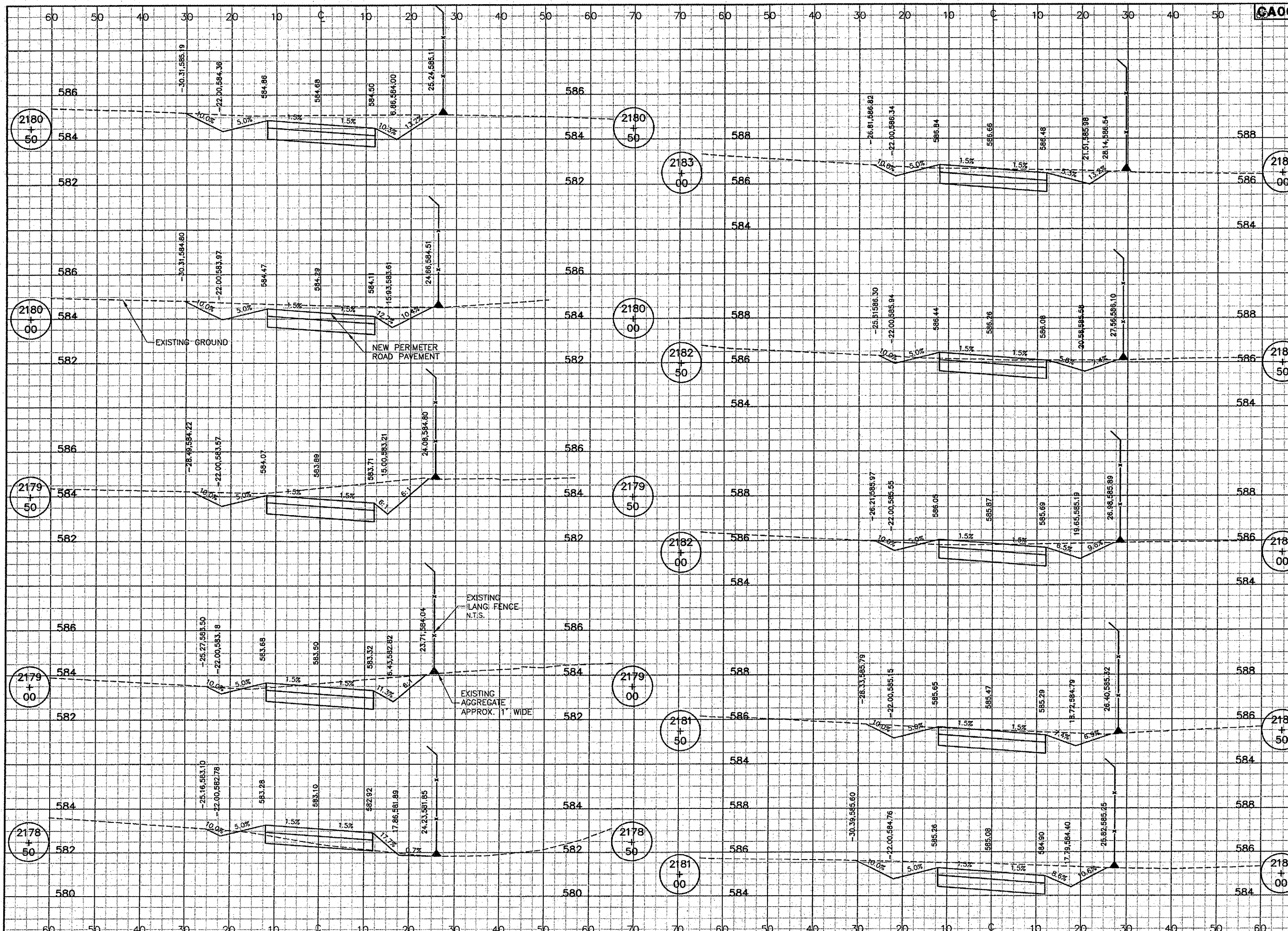
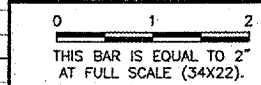


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SHEET 79 OF 83 SHEETS	

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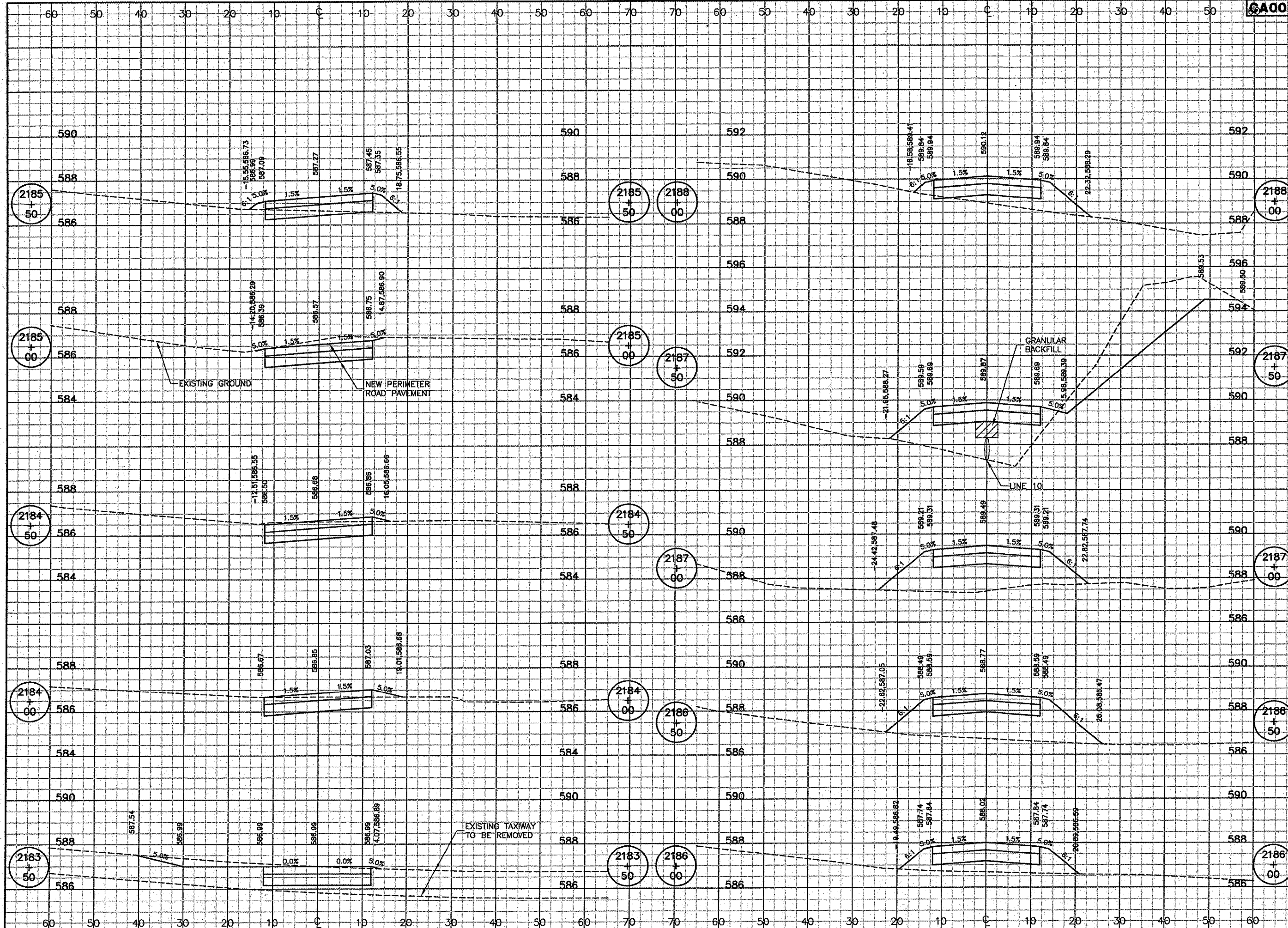
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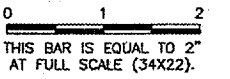
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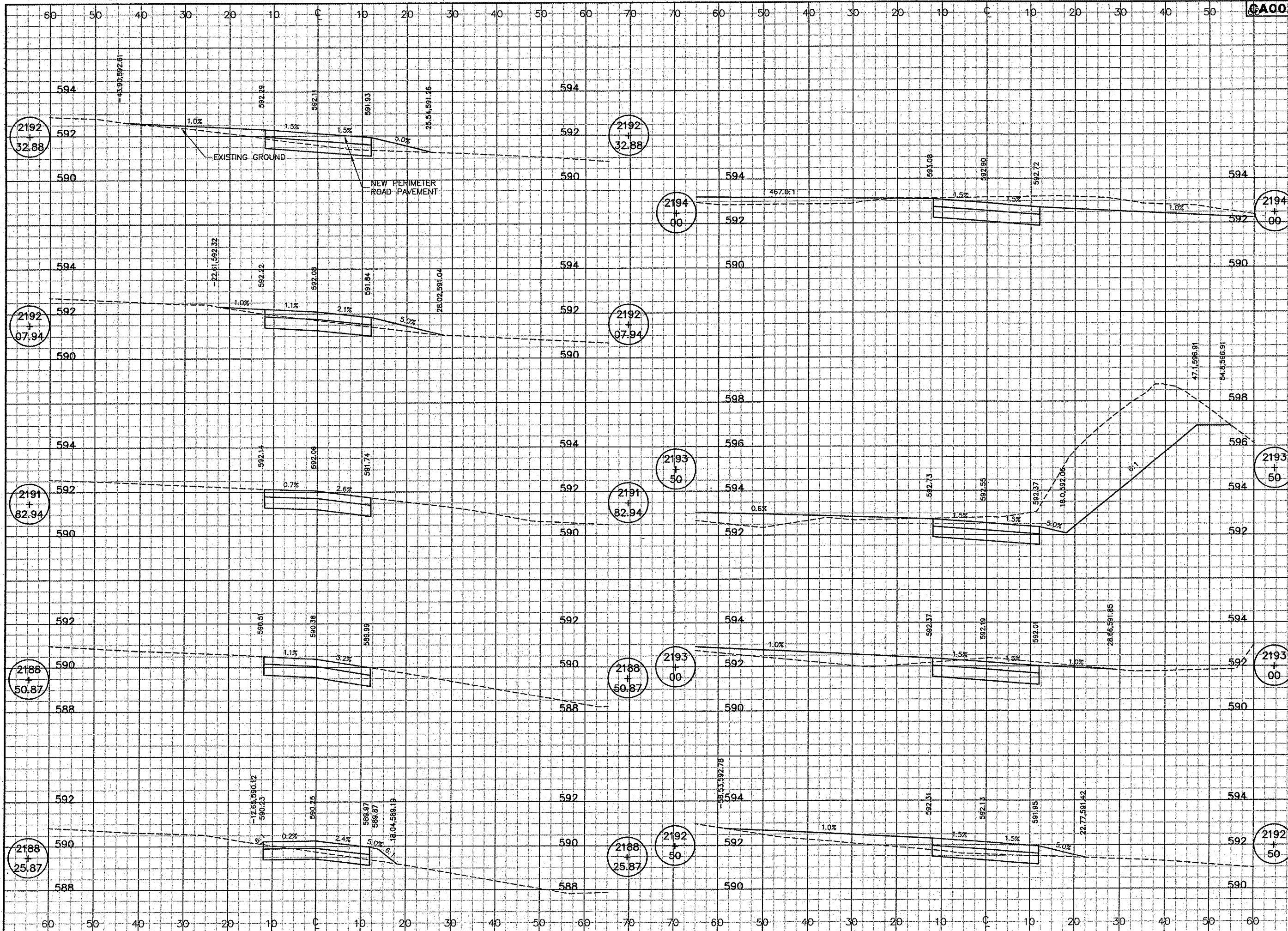
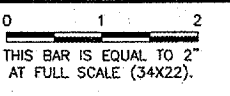
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AIP PROJ. NO.	3-17-0096-44
SHEET 81 OF 83 SHEETS	

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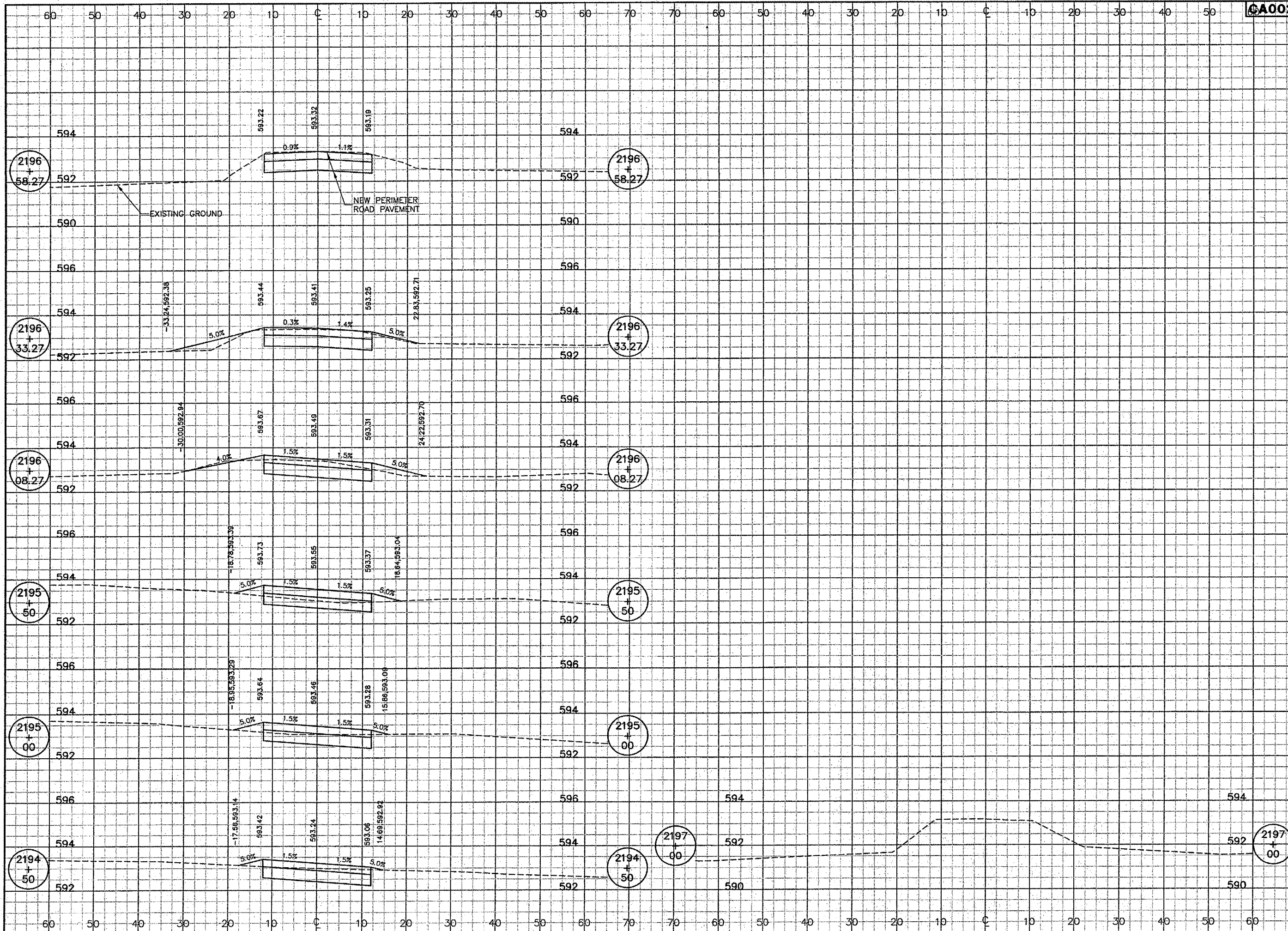
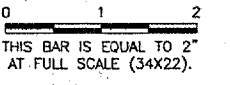
  
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**PERIMETER RD CROSS SECTIONS 8**  
**STA. 2194+50 TO STA. 2197+00**

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SHEET	83 OF 83 SHEETS