

CONSTRUCTION PLANS FOR ABRAHAM LINCOLN CAPITAL AIRPORT

SPRINGFIELD AIRPORT AUTHORITY SPRINGFIELD, ILLINOIS

ILLINOIS PROJECT SPI-3346

REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS

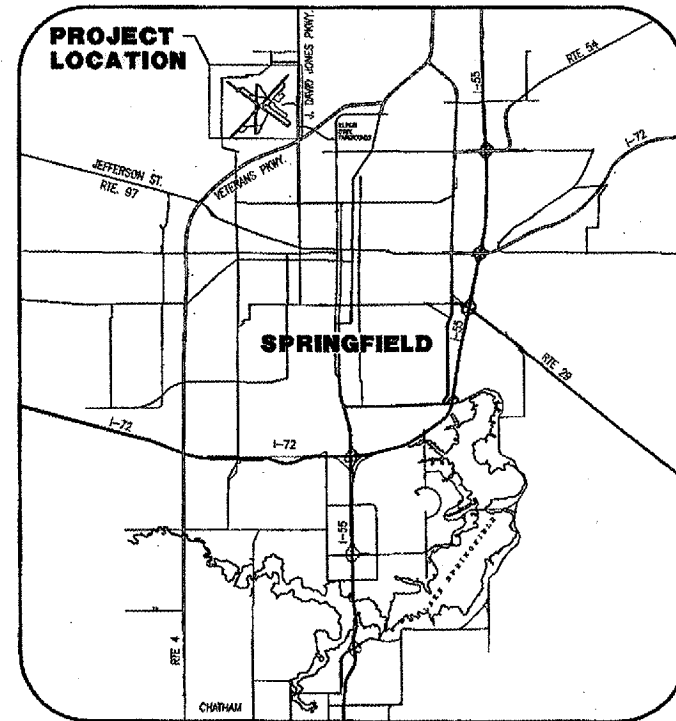
- ADD. ALT. 1 - REMOVE, GRADE & TURF AREA 1
- ADD. ALT. 2 - REMOVE, GRADE & TURF AREA 2
- ADD. ALT. 3 - REMOVE, GRADE & TURF AREA 3

JANUARY 27, 2006

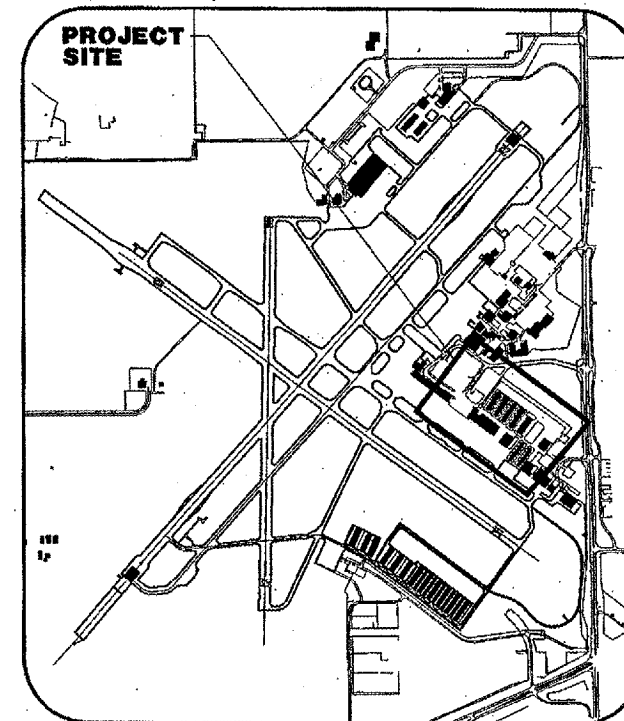
1/30/2006



Christopher B. Grotz




LOCATION MAP



SITE PLAN

DESIGN DATA
GEOMETRIC DESIGN GROUP II FOR T-HANGAR & FOR T-HANGAR TAXILANES
STRUCTURAL SINGLE OR DUAL GEAR LESS THAN 30,000 POUNDS 260 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 16 COUNTY: SANGAMON CIVIL TOWNSHIP: CAPITAL


FILE: K:\PMP\04035\DRAW\SHEETS\1105\01-COVER.DWG
DATE PLOTTED: 01/13/2006
SCALE: 1"=100'
PLOT #:
LAST UPDATE:



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

APPROVED: *[Signature]*
EXECUTIVE DIRECTOR OF AVIATION

DATE: 1-27-06



CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
■ SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO

SUBMITTED BY: _____
DATE: _____
CM&T JOB NUMBER 04035-10-00

CA001

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 LAYOUT: Layout1
 UPDATE BY: egroth
 SURVEY BOOK #
 DATE: Sat 1/28/06 11:35am
 XREF DWG: Cntinfo.dwg

SUMMARY OF QUANTITIES

INDEX TO SHEETS

BASE BID

ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANT
AR106900	REMOVE LIGHT POLE	EACH	2
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	1280
AR800371	SUBBASE PREPARATION	S.Y.	8180
AR156510	SILT FENCE	L.F.	100
AR156520	INLET PROTECTION	EACH	2
AR201610	BITUMINOUS BASE COURSE	TONS	550
AR209510	CRUSHED AGGREGATE BASE COURSE	TONS	2850
AR401610	BITUMINOUS SURFACE COURSE	TONS	2080
AR401650	BITUMINOUS PAVEMENT MILLING	S.Y.	11100
AR401655	BUTT JOINT CONSTRUCTION	S.Y.	490
AR800372	BITUMINOUS & PCC PAVEMENT REMOVAL	S.Y.	300
AR510510	TIE DOWN	EACH	18
AR510515	GROUND ROD	EACH	6
AR510900	REMOVE TIE DOWN	EACH	28
AR510905	REMOVE GROUND ROD	EACH	9
AR602510	BITUMINOUS PRIME COAT	GAL	1500
AR603510	BITUMINOUS TACK COAT	GAL	3040
AR620510	PAVEMENT MARKING	S.F.	4500
AR620900	PAVEMENT MARKING REMOVAL	S.F.	1800
AR625510	TAR EMULSION SEAL COAT	S.Y.	230
AR701512	12" RCP, CLASS IV	L.F.	100
AR701900	REMOVE PIPE	L.F.	58
AR751411	INLET-TYPE A	EACH	1
AR751900	REMOVE INLET	EACH	1
AR901510	SEEDING	ACRE	1
AR908510	MULCHING	ACRE	1
AR908520	EXCELSIOR BLANKET	S.Y.	100

ADDITIVE ALTERNATE 1

ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANT
AS152410	UNCLASSIFIED EXCAVATION	C.Y.	250
AS401650	BITUMINOUS PAVEMENT MILLING	S.Y.	1175
AS901510	SEEDING	ACRE	0.25
AS908510	MULCHING	ACRE	0.25

ADDITIVE ALTERNATE 2

ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANT
AT152410	UNCLASSIFIED EXCAVATION	C.Y.	900
AT401650	BITUMINOUS PAVEMENT MILLING	S.Y.	4200
AT510900	REMOVE TIE DOWN	EACH	21
AT510905	REMOVE GROUND ROD	EACH	7
AT901510	SEEDING	ACRE	0.9
AT908510	MULCHING	ACRE	0.9

ADDITIVE ALTERNATE 3

ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANT
AU152410	UNCLASSIFIED EXCAVATION	C.Y.	900
AU401650	BITUMINOUS PAVEMENT MILLING	S.Y.	4200
AU510900	REMOVE TIE DOWN	EACH	21
AU510905	REMOVE GROUND ROD	EACH	7
AU901510	SEEDING	ACRE	0.9
AU908510	MULCHING	ACRE	0.9

SHT. NO.	DESCRIPTION
1	COVER SHEET
2	INDEX TO SHEET AND SUMMARY QUANTITIES
3	AIRPORT SITE PLAN
4	CONSTRUCTION ACTIVITY PLAN 1
5	CONSTRUCTION ACTIVITY PLAN 2
6	ADDITIVE ALTERNATIVE CONSTRUCTION ACTIVITY PLAN 3
7	EXISTING CONDITIONS AND REMOVALS
8	ADDITIVE ALTERNATIVE 1, 2, & 3 EXISTING CONDITIONS AND REMOVALS
9	EXISTING TYPICAL SECTIONS
10	PROPOSED IMPROVEMENTS
11	PROPOSED TYPICAL SECTIONS
12	NEW PAVEMENT GEOMETRY
13	STAKING PLAN
14	DRAINAGE DETAILS
15	MISCELLANEOUS DETAILS
16	PAVEMENT MARKING PLAN, TURFING LIMITS, AND INDEX TO CROSS SECTIONS
17	TAXIWAY 1 CROSS SECTION SHEET STA. 0+00 TO STA. 3+50
18	TAXIWAY 1 CROSS SECTION SHEET STA. 4+00 TO STA. 5+50
19	TAXIWAY 2 CROSS SECTION SHEET STA. 0+50 TO STA. 1+50
20	HANGAR 2 & 3 TAXILANE CROSS SECTION SHEET STA. 10+00 TO STA. 12+00

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

REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
 INDEX TO SHEET
 AND SUMMARY OF QUANTITIES

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DESIGN BY: CBG
 DRAWN BY: CMT
 CHECKED BY: *CBG*
 APPROVED BY: *RCW*
 DATE: 01/27/2006
 JOB No: 04035-10-00

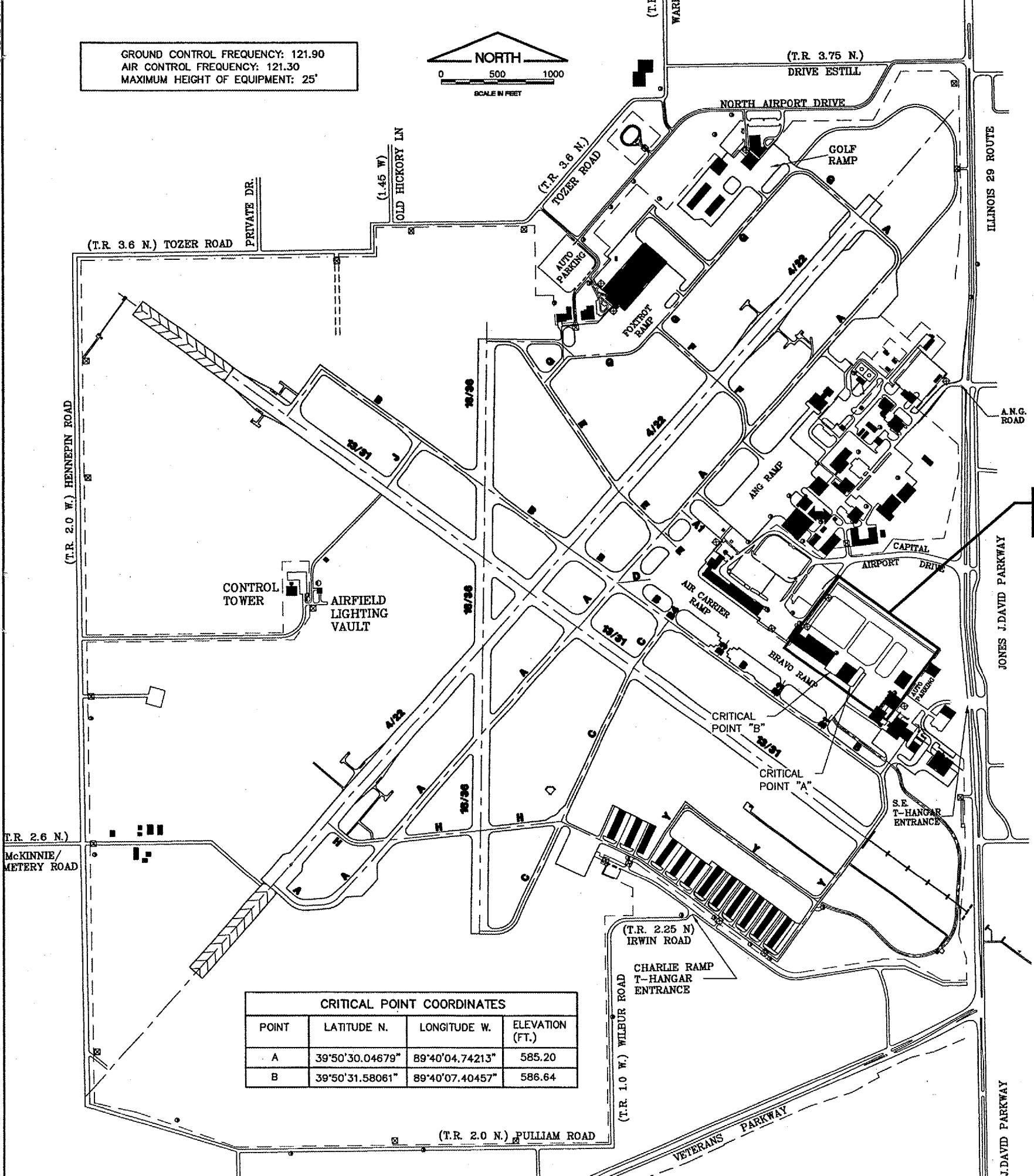
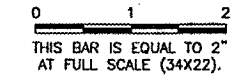
ILLINOIS PROJECT SPI-3346

GENERAL NOTES

- 1.) ALL RUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRPORT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED IN THE CONSTRUCTION ACTIVITY PLAN.
- 2.) ALL CONSTRUCTION TRAFFIC OPERATING ON OR CROSSING RUNWAYS, TAXIWAYS, AND APRONS OPEN TO AIRCRAFT TRAFFIC SHALL BE UNDER CONTROL OF 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.
- 3.) 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.
- 4.) 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.
- 5.) BROKEN CONCRETE AND ASPHALT SHALL BE DISPOSED OF BY THE CONTRACTOR OFF OF AIRPORT PROPERTY.
- 6.) VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED WITHIN 40' FROM THE CENTERLINE OF ACTIVE TAXIWAYS OR 200' FROM THE CENTERLINE OF ACTIVE RUNWAYS.
- 7.) ALL PAVEMENTS, DRIVES, OR ANY OTHER AREAS UTILIZED BY THE CONTRACTOR FOR HAUL ROADS OR STORAGE AREAS SHALL BE MAINTAINED AND REPAIRED IN KIND BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND AIRPORT DIRECTOR. NO ADDITIONAL COMPENSATION SHALL BE MADE TO THE CONTRACTOR FOR THIS WORK.
- 8.) EXISTING TURF AREAS OUTSIDE THE GRADING LIMITS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER AND THE AIRPORT DIRECTOR.
- 9.) THE CONTRACTOR SHALL CONTINUOUSLY CLEAN CONSTRUCTION AREAS WHICH WILL BE OPENED TO AIR TRAFFIC.
- 10.) IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAKE HIS OWN FIELD INVESTIGATION TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES WITHIN THE PROJECT SITE 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.
- 11.) CONTRACTOR'S ACCESS SHALL BE AS FOLLOWS:
 - A.) THE CONTRACTOR'S ACCESS TO WORK SHALL BE AS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN.
 - B.) THE CONTRACTOR SHALL COMPLETE A SECURITY FORM FOR ALL PERSONNEL HE PROPOSES TO USE ON THE AIRPORT. THESE FORMS SHALL BE COMPLETED PRIOR TO THAT PERSON BEING ALLOWED ON THE AIRFIELD. A LIST OF PERSONNEL AUTHORIZED TO WORK ON THE AIRFIELD SHALL BE PROVIDED TO THE RESIDENT ENGINEER BY THE CONTRACTOR.
 - C.) THE CONTRACTOR SHALL USE AN EXISTING GATE 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.
 - D.) CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND TEMPORARY EASEMENTS FOR THE ACCESS ROAD(S) SHOWN AND SHALL COMPLY WITH ALL TRAFFIC CONTROL SIGNAGE REQUIRED BY THE COUNTY, TOWNSHIP, OR I.D.O.T.
 - E.) DURING ADVERSE WEATHER THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF THE CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE WORK SITE.
 - F.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE ACCESS GATE(S) CLOSED DURING WORK HOURS. THE CONTRACTOR SHALL POST A COMPETENT SECURITY GUARD TO CONTROL ACCESS AT THE GATE. THE CONTRACTOR SHALL REPLACE ANY UNSATISFACTORY SECURITY GUARDS AS DIRECTED.
 - G.) THE CONTRACTOR SHALL CLOSE AND LOCK THE ACCESS GATE(S) UPON LEAVING THE SITE.
 - H.) ALL COSTS RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - I.) THE CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS IN SUCH A WAY AS NOT TO VIOLATE AIRPORT PART 77 SURFACES, OR RUNWAY, TAXIWAY SAFETY AREAS, AND OBJECT FREE AREAS.
 - J.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ACTIVE AIRFIELD PAVEMENTS WHICH ARE CROSSED BY HIS VEHICLES ACCESSING THE WORK OR DEPARTING THE WORK IMMEDIATELY FOLLOWING SAID VEHICLE.

REVISIONS

NUMBER	BY	DATE




GROUND CONTROL FREQUENCY: 121.90
 AIR CONTROL FREQUENCY: 121.30
 MAXIMUM HEIGHT OF EQUIPMENT: 25'



PROPOSED IMPROVEMENTS


CRITICAL POINT COORDINATES

POINT	LATITUDE N.	LONGITUDE W.	ELEVATION (FT.)
A	39°50'30.04679"	89°40'04.74213"	585.20
B	39°50'31.58061"	89°40'07.40457"	586.64



SPRINGFIELD AIRPORT AUTHORITY
 ABRAHAM LINCOLN CAPITAL AIRPORT
 SPRINGFIELD, ILLINOIS

REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
 AIRPORT SITE PLAN



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DESIGN BY: RLV
 DRAWN BY: CMT
 CHECKED BY: CRL
 APPROVED BY: RLV
 DATE: 01/27/2006
 JOB No: 04035-1000
 ILLINOIS PROJECT SPI-3346
 SHEET 3 OF 20 SHEETS

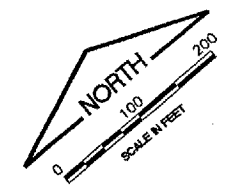
PHASING NOTES

1. CONSTRUCTION VEHICLES SHALL YIELD TO ALL AIRCRAFT.
2. WORK AREAS ADJACENT TO AIRCRAFT MOVEMENT SHALL BE KEPT FREE OF DEBRIS.
3. CONTRACTOR SHALL PROVIDE SWEEP OR VACUUM ON SITE CAPABLE OF REMOVING CONSTRUCTION DEBRIS WITHOUT SPREADING IT INTO AIRCRAFT MOVEMENT AREAS.
4. CURB AND GUTTER AT THE ENTRANCE ROAD SHALL BE PROTECTED OR RESTORED TO IT'S ORIGINAL CONDITION.
5. CONTRACTOR SHALL PROVIDE A GUARD AT THE ENTRANCE GATE TO MAINTAIN SECURITY.

REVISIONS

NUMBER	BY	DATE

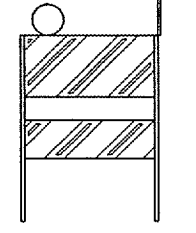
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FLASHER BARRICADE NOTES

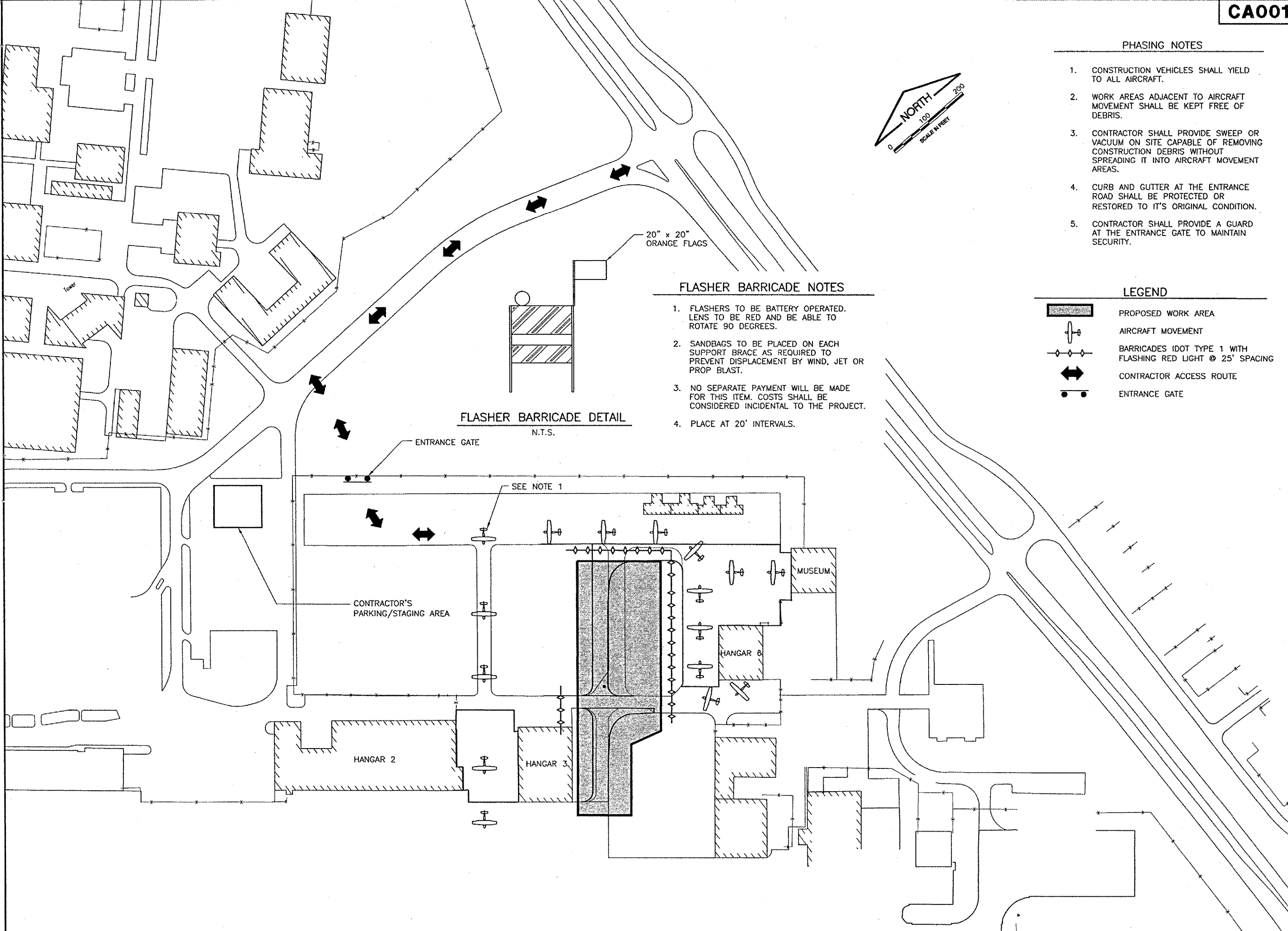
1. FLASHERS TO BE BATTERY OPERATED. LENS TO BE RED AND BE ABLE TO ROTATE 90 DEGREES.
2. SANDBAGS TO BE PLACED ON EACH SUPPORT BRACE AS REQUIRED TO PREVENT DISPLACEMENT BY WIND, JET OR PROP BLAST.
3. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM. COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
4.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

FLASHER BARRICADE DETAIL
N.T.S.



LEGEND

-  PROPOSED WORK AREA
-  AIRCRAFT MOVEMENT
-  BARRICADES IDOT TYPE 1 WITH FLASHING RED LIGHT @ 25' SPACING
-  CONTRACTOR ACCESS ROUTE
-  ENTRANCE GATE



SPRINGFIELD AIRPORT AUTHORITY
ABRAHAM LINCOLN CAPITAL AIRPORT
SPRINGFIELD, ILLINOIS

REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
CONSTRUCTION ACTIVITY PLAN 1

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 DRAWN BY: CMT
 CHECKED BY: *CBL*
 APPROVED BY: *RLW*
 DATE: 01/27/2006
 JOB No: 04035-10-00

ILLINOIS PROJECT SPI-3346

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PHASING NOTES






1. CONSTRUCTION VEHICLES SHALL YIELD TO ALL AIRCRAFT.
2. WORK AREAS ADJACENT TO AIRCRAFT MOVEMENT SHALL BE KEPT FREE OF DEBRIS.
3. CONTRACTOR SHALL PROVIDE SWEEP OR VACUUM ON SITE CAPABLE OF REMOVING CONSTRUCTION DEBRIS WITHOUT SPREADING IT INTO AIRCRAFT MOVEMENT AREAS.
4. CURB AND GUTTER AT THE ENTRANCE ROAD SHALL BE PROTECTED OR RESTORED TO IT'S ORIGINAL CONDITION.
5. CONTRACTOR SHALL PROVIDE A GUARD AT THE ENTRANCE GATE TO MAINTAIN SECURITY.

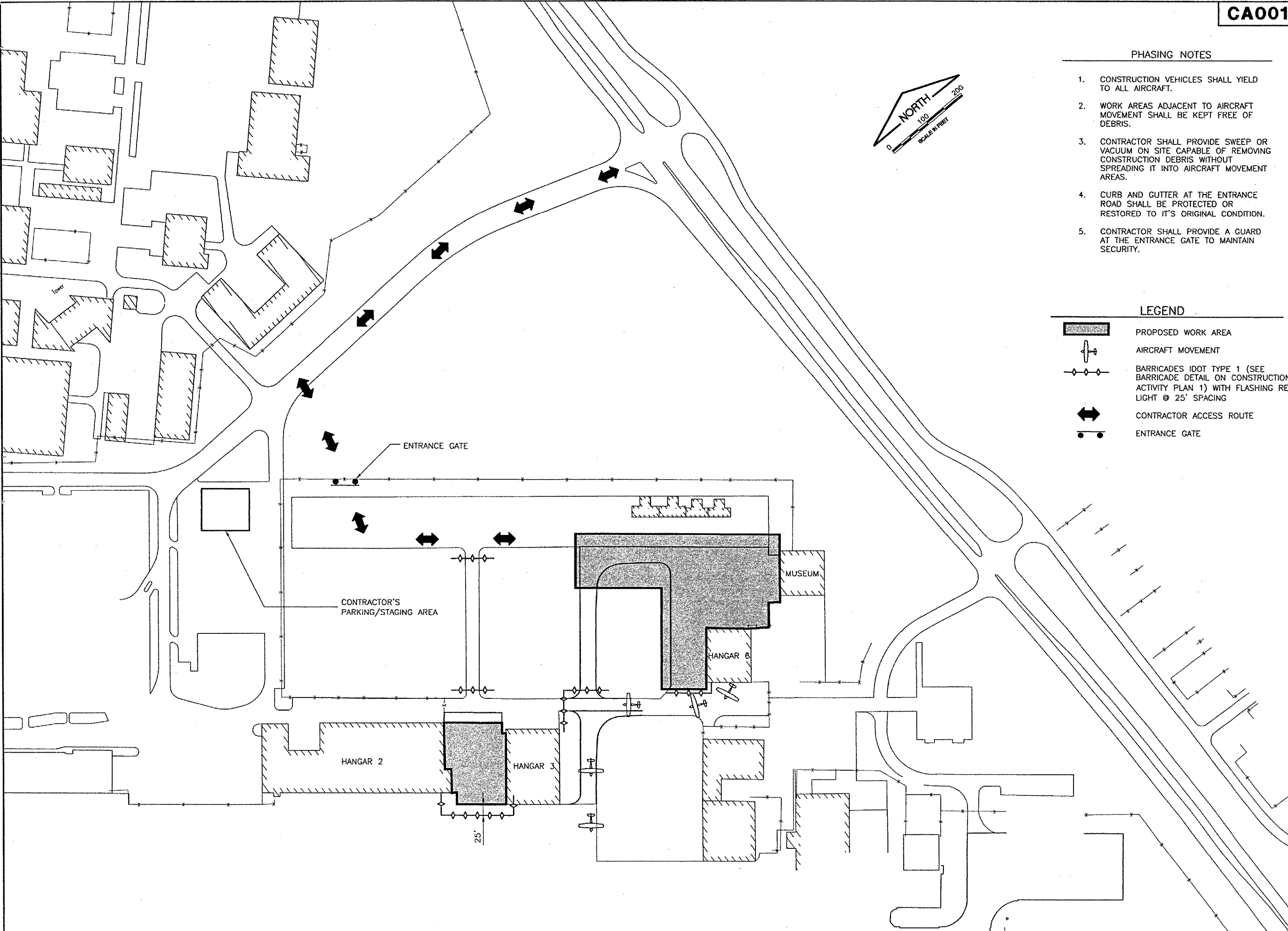
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THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

LEGEND

-  PROPOSED WORK AREA
-  AIRCRAFT MOVEMENT
-  BARRICADES IDOT TYPE 1 (SEE BARRICADE DETAIL ON CONSTRUCTION ACTIVITY PLAN 1) WITH FLASHING RED LIGHT @ 25' SPACING
-  CONTRACTOR ACCESS ROUTE
-  ENTRANCE GATE




SPRINGFIELD AIRPORT AUTHORITY
ABRAHAM LINCOLN CAPITAL AIRPORT
SPRINGFIELD, ILLINOIS

REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
CONSTRUCTION ACTIVITY PLAN 2

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 CHECKED BY: *CBL*
 APPROVED BY: *RLV*
 DATE: 01/27/2006

JOB No: .04035-10-00

ILLINOIS PROJECT SPI-3346

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PHASING NOTES



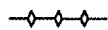


1. PHASE 3 IS AN ADDITIVE ALTERNATE.
2. PHASE 3 MAY BE CONSTRUCTED CONCURRENTLY WITH PHASE 2.
3. CONSTRUCTION VEHICLES SHALL YIELD TO ALL AIRCRAFT.
4. WORK AREAS ADJACENT TO AIRCRAFT MOVEMENT SHALL BE KEPT FREE OF DEBRIS.
5. CONTRACTOR SHALL PROVIDE SWEEP OR VACUUM ON SITE CAPABLE OF REMOVING CONSTRUCTION DEBRIS WITHOUT SPREADING IT INTO AIRCRAFT MOVEMENT AREAS.
6. CURB AND GUTTER AT THE ENTRANCE ROAD SHALL BE PROTECTED OR RESTORED TO IT'S ORIGINAL CONDITION.
7. CONTRACTOR SHALL PROVIDE A GUARD AT THE ENTRANCE GATE TO MAINTAIN SECURITY.

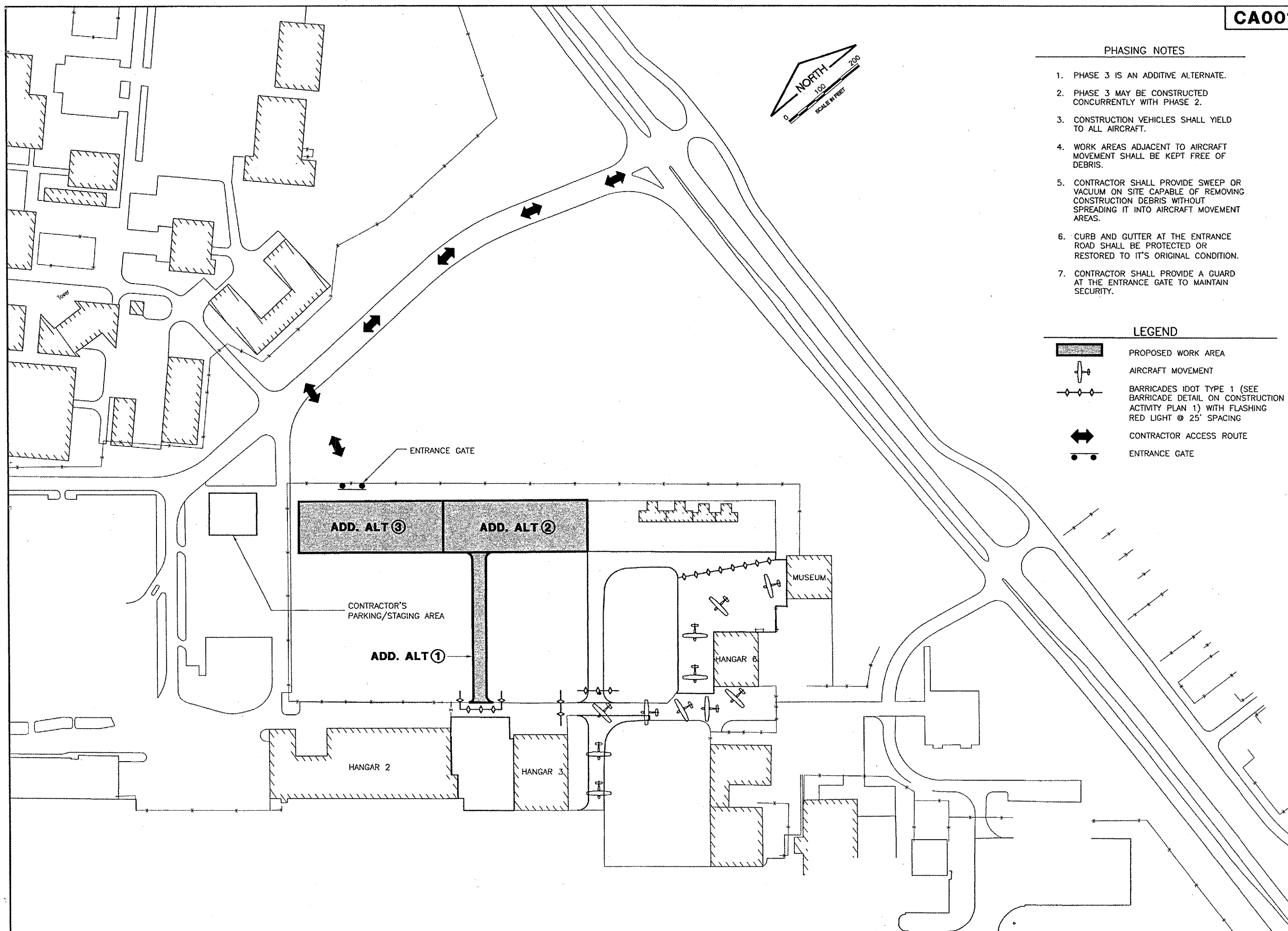
REVISIONS


NUMBER	BY	DATE

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

LEGEND

-  PROPOSED WORK AREA
-  AIRCRAFT MOVEMENT
-  BARRICADES IDOT TYPE 1 (SEE BARRICADE DETAIL ON CONSTRUCTION ACTIVITY PLAN 1) WITH FLASHING RED LIGHT @ 25' SPACING
-  CONTRACTOR ACCESS ROUTE
-  ENTRANCE GATE




SPRINGFIELD AIRPORT AUTHORITY
ABRAHAM LINCOLN CAPITAL AIRPORT
SPRINGFIELD, ILLINOIS

REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
ADDITIVE ALTERNATE
CONSTRUCTION ACTIVITY PLAN 3

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DESIGN BY:	<i>CRL</i>
DRAWN BY:	CMT
CHECKED BY:	<i>CRL</i>
APPROVED BY:	<i>RLV</i>
DATE:	01/27/2006
JOB No:	04035-10-00
ILLINOIS PROJECT SPI-3346	
SHEET 6 OF 20 SHEETS	

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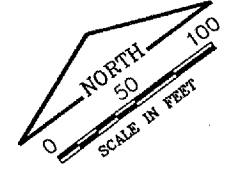
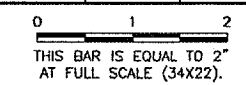
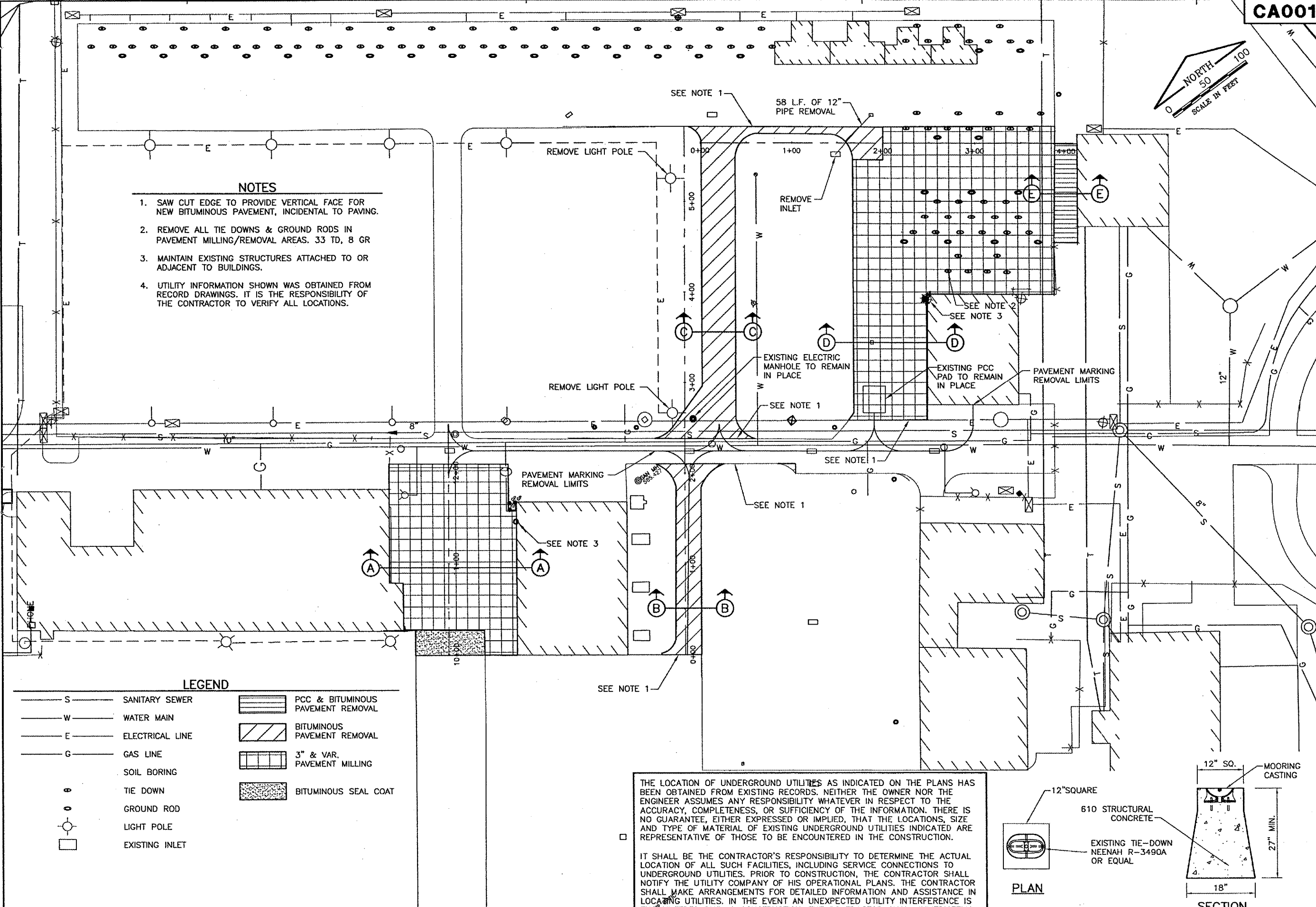


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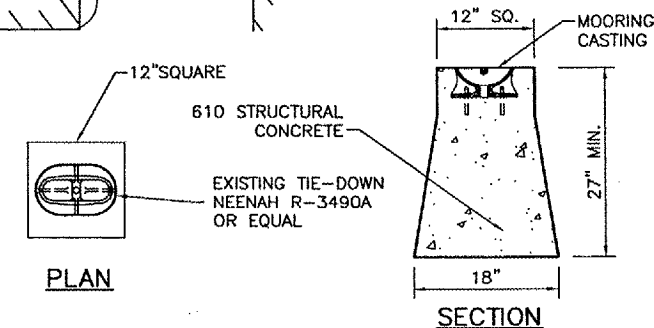
- NOTES
1. SAW CUT EDGE TO PROVIDE VERTICAL FACE FOR NEW BITUMINOUS PAVEMENT, INCIDENTAL TO PAVING.
2. REMOVE ALL TIE DOWNS & GROUND RODS IN PAVEMENT MILLING/REMOVAL AREAS. 33 TD, 8 GR
3. MAINTAIN EXISTING STRUCTURES ATTACHED TO OR ADJACENT TO BUILDINGS.
4. UTILITY INFORMATION SHOWN WAS OBTAINED FROM RECORD DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL LOCATIONS.



LEGEND
S SANITARY SEWER
W WATER MAIN
E ELECTRICAL LINE
G GAS LINE
SOIL BORING
TIE DOWN
GROUND ROD
LIGHT POLE
EXISTING INLET
PCC & BITUMINOUS PAVEMENT REMOVAL
BITUMINOUS PAVEMENT REMOVAL
3" & VAR. PAVEMENT MILLING
BITUMINOUS SEAL COAT

THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATEVER IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY 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 ENGINEER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE.



EXISTING TIE-DOWN DETAIL

N.T.S.

SPRINGFIELD AIRPORT AUTHORITY
ABRAHAM LINCOLN CAPITAL AIRPORT
SPRINGFIELD, ILLINOIS
REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
EXISTING CONDITIONS AND REMOVALS


CMT
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Table with 2 columns: Field Name, Value. Includes DESIGN BY: CBG, DRAWN BY: CMT, CHECKED BY: CRL, APPROVED BY: [Signature], DATE: 01/27/2006, JOB No: 04035-10-00, ILLINOIS PROJECT SPI-3346, SHEET 7 OF 20 SHEETS.

CA001

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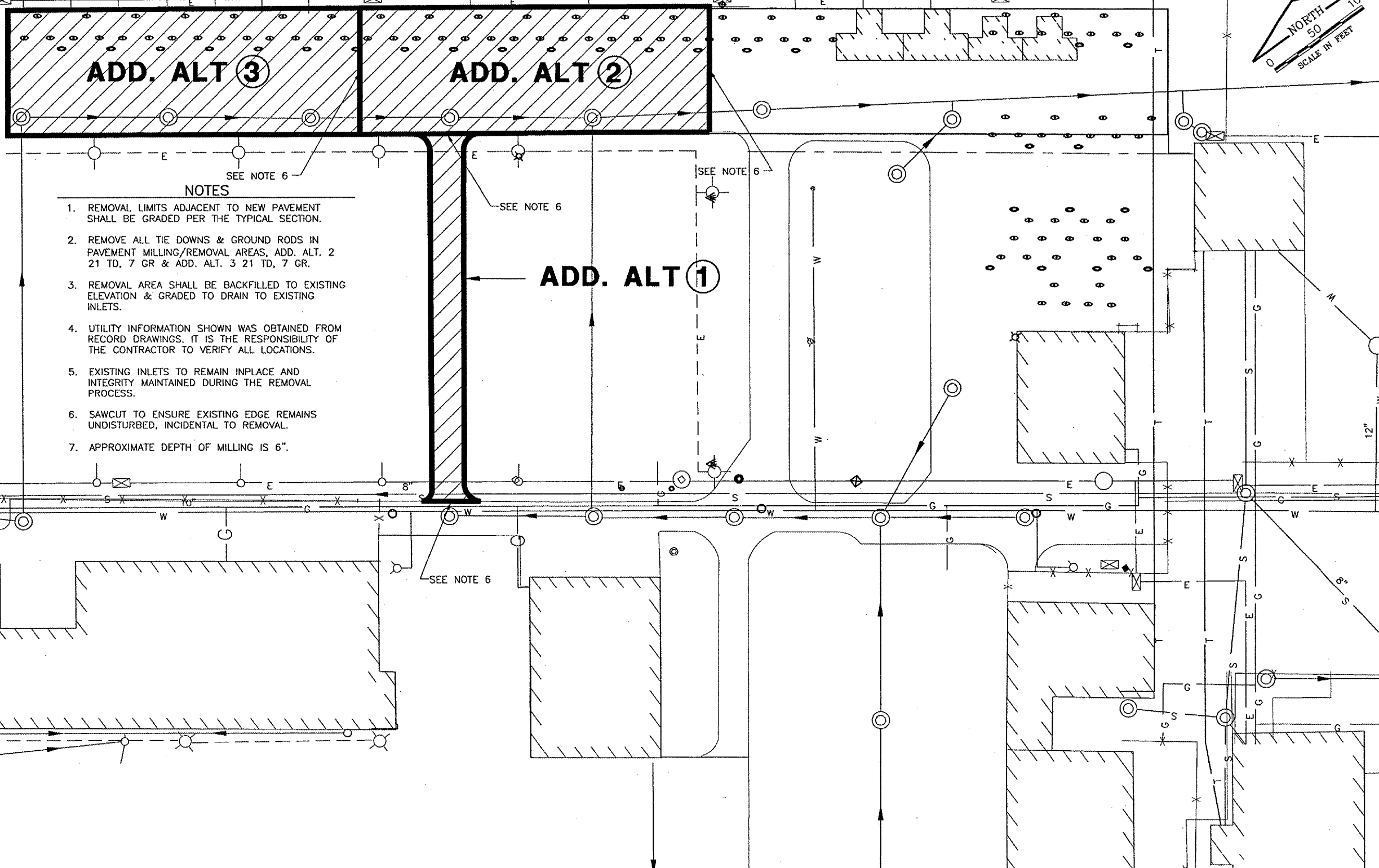
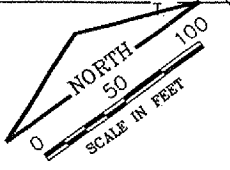
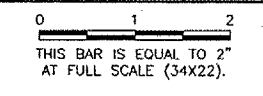
— S —	SANITARY SEWER		BITUMINOUS PAVEMENT REMOVAL
— W —	WATER MAIN		
— E —	ELECTRICAL LINE		
— G —	GAS LINE		
⊕	TIE DOWN		
⊙	GROUND ROD		
⊙	EXISTING INLET		

THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATEVER IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY 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 ENGINEER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE.

REVISIONS

NUMBER	BY	DATE



- NOTES**
1. REMOVAL LIMITS ADJACENT TO NEW PAVEMENT SHALL BE GRADED PER THE TYPICAL SECTION.
 2. REMOVE ALL TIE DOWNS & GROUND RODS IN PAVEMENT MILLING/REMOVAL AREAS, ADD. ALT. 2 21 TD, 7 GR & ADD. ALT. 3 21 TD, 7 GR.
 3. REMOVAL AREA SHALL BE BACKFILLED TO EXISTING ELEVATION & GRADED TO DRAIN TO EXISTING INLETS.
 4. UTILITY INFORMATION SHOWN WAS OBTAINED FROM RECORD DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL LOCATIONS.
 5. EXISTING INLETS TO REMAIN INPLACE AND INTEGRITY MAINTAINED DURING THE REMOVAL PROCESS.
 6. SAWCUT TO ENSURE EXISTING EDGE REMAINS UNDISTURBED, INCIDENTAL TO REMOVAL.
 7. APPROXIMATE DEPTH OF MILLING IS 6".

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

**REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
ADDITIVE ALTERNATE 1, 2 & 3
EXISTING CONDITIONS
AND REMOVALS**

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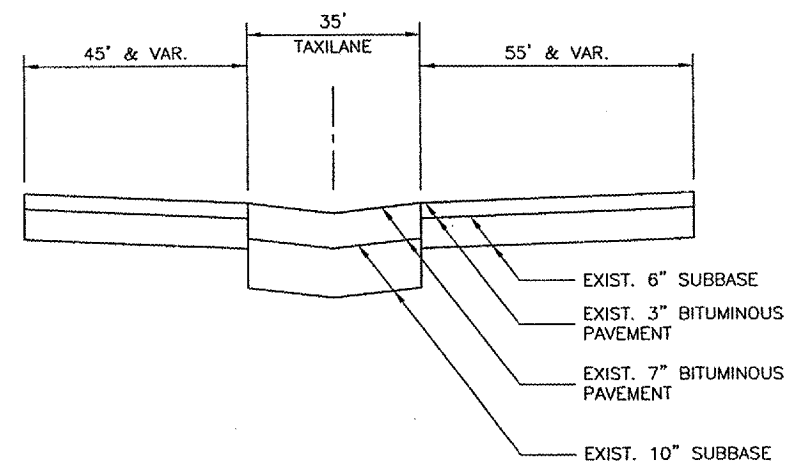
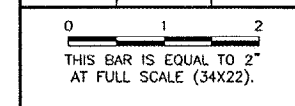
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DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	RW
DATE:	01/27/2006
JOB No:	04035-10-00

CA001

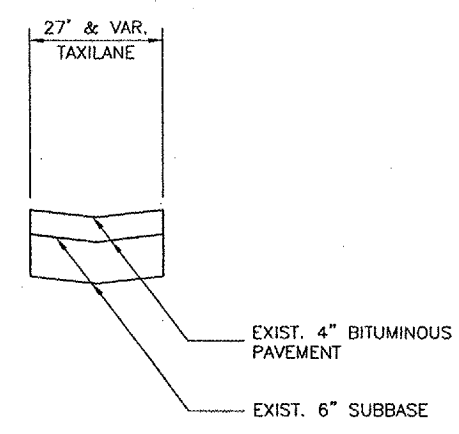
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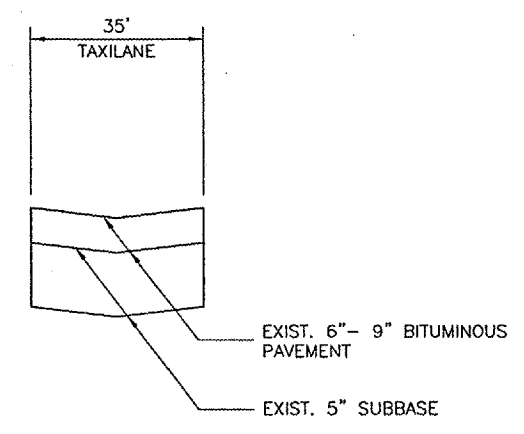
REVISIONS		
NUMBER	BY	DATE



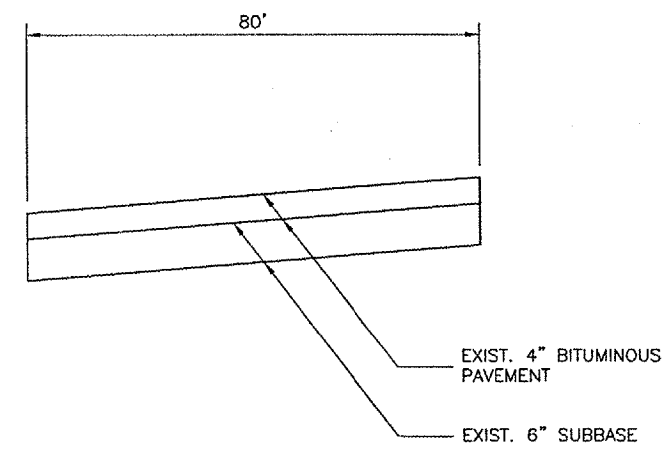
(A) EXISTING HANGAR 2 & 3 PAVEMENT (A)
 N.T.S.



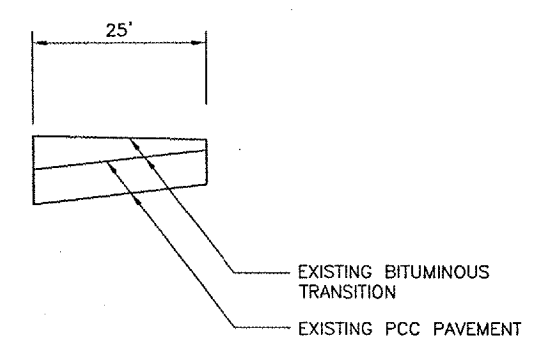
(B) EXISTING TAXILANE PAVEMENT (B)
 N.T.S.



(C) EXISTING TAXILANE PAVEMENT (C)
 N.T.S.



(D) EXISTING HANGAR 6 TAXILANE PAVEMENT (D)
 N.T.S.



(E) EXISTING MUSEUM HANGAR RAMP (E)
 N.T.S.

BORING RESULTS

BORING NO.	PAVEMENT STRUCTURE	TYPICAL SECTION
1	2.5" BITUMINOUS PAVEMENT 7" AGGREGATE BASE COURSE	D-D
2	7.0" BITUMINOUS PAVEMENT 6.75" GRANULAR SUBBASE	D-D
3	7.5" BITUMINOUS PAVEMENT 13.75" GRANULAR SUBBASE	C-C
4	8.5" BITUMINOUS PAVEMENT 5.0" GRANULAR SUBBASE	B-B
5	7.0" BITUMINOUS PAVEMENT 10.5" GRANULAR SUBBASE	A-A

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REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
EXISTING TYPICAL SECTIONS

DESIGN BY:	CBG
DRAWN BY:	CBG
CHECKED BY:	<i>CBG</i>
APPROVED BY:	<i>RW</i>
DATE:	01/27/2006
JOB No:	04035-10-00
ILLINOIS PROJECT SPI-3346	
SHEET 9 OF 20 SHEETS	

IMAGE FILES: S:\aop\p.jit

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REVISIONS		
NUMBER	BY	DATE

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AT FULL SCALE (34X22).

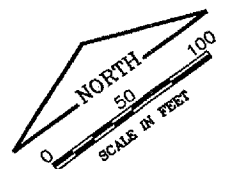
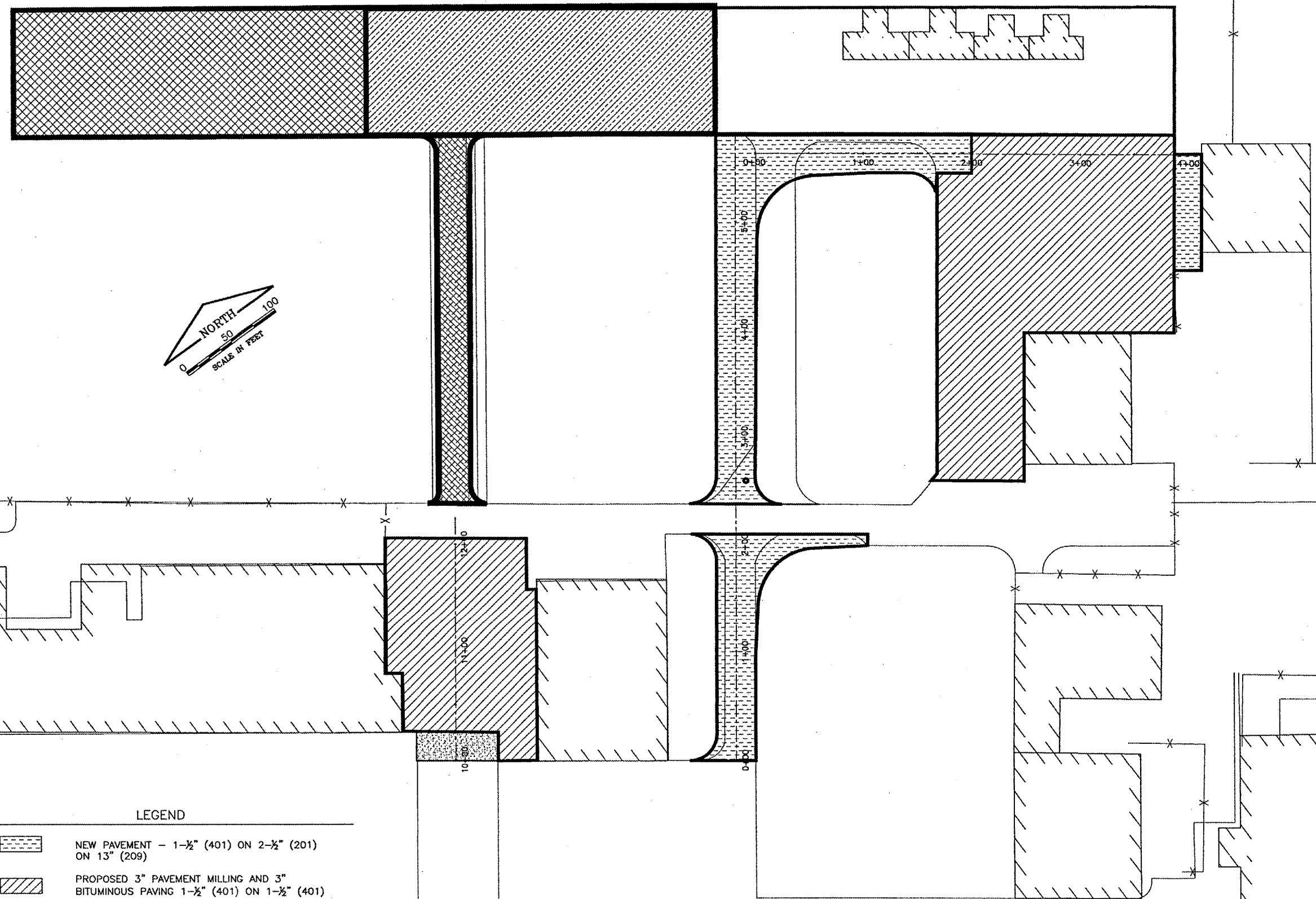
SPRINGFIELD AIRPORT AUTHORITY
ABRAHAM LINCOLN CAPITAL AIRPORT
SPRINGFIELD, ILLINOIS
REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
PROPOSED IMPROVEMENTS

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CHECKED BY: CBL
APPROVED BY: RW
DATE: 01/27/2006
JOB No: 04035-10-00

ILLINOIS PROJECT SPI-3346

SHEET 10 OF 20 SHEETS



LEGEND

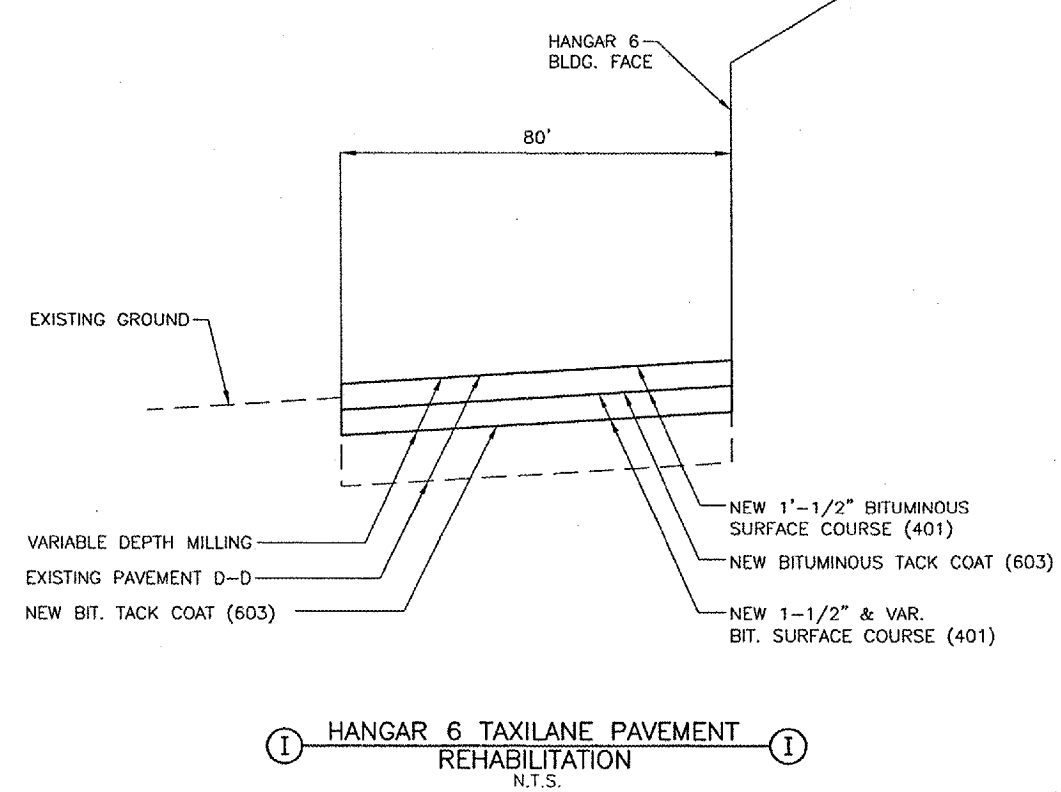
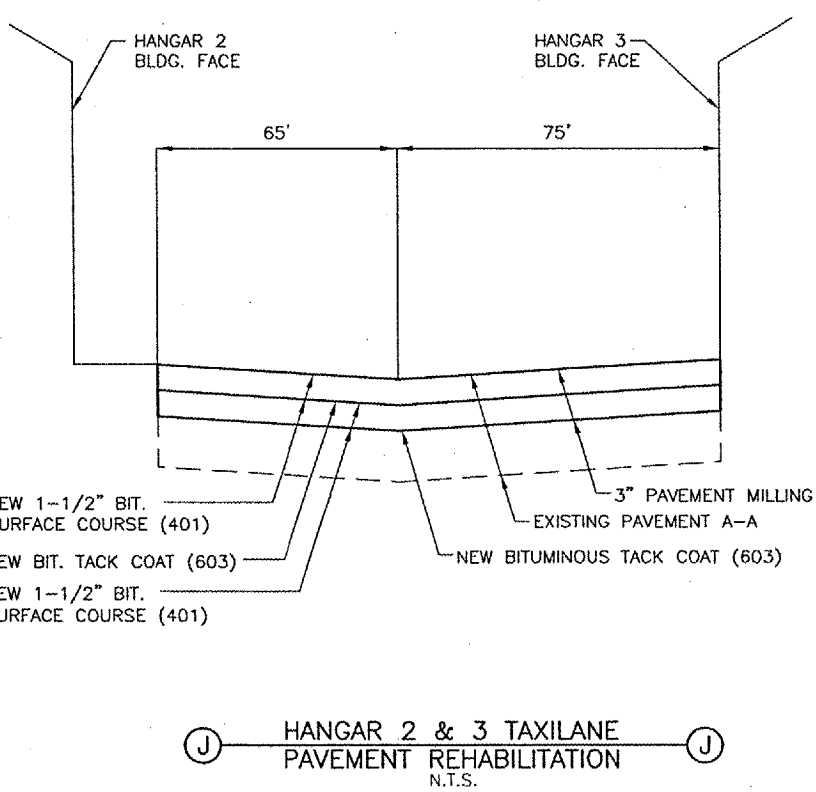
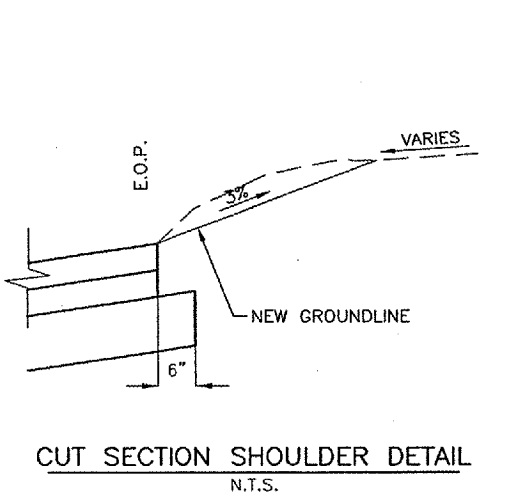
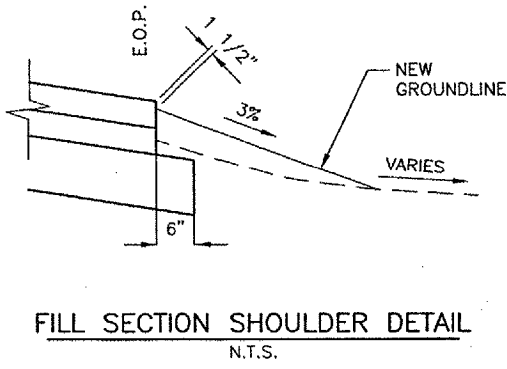
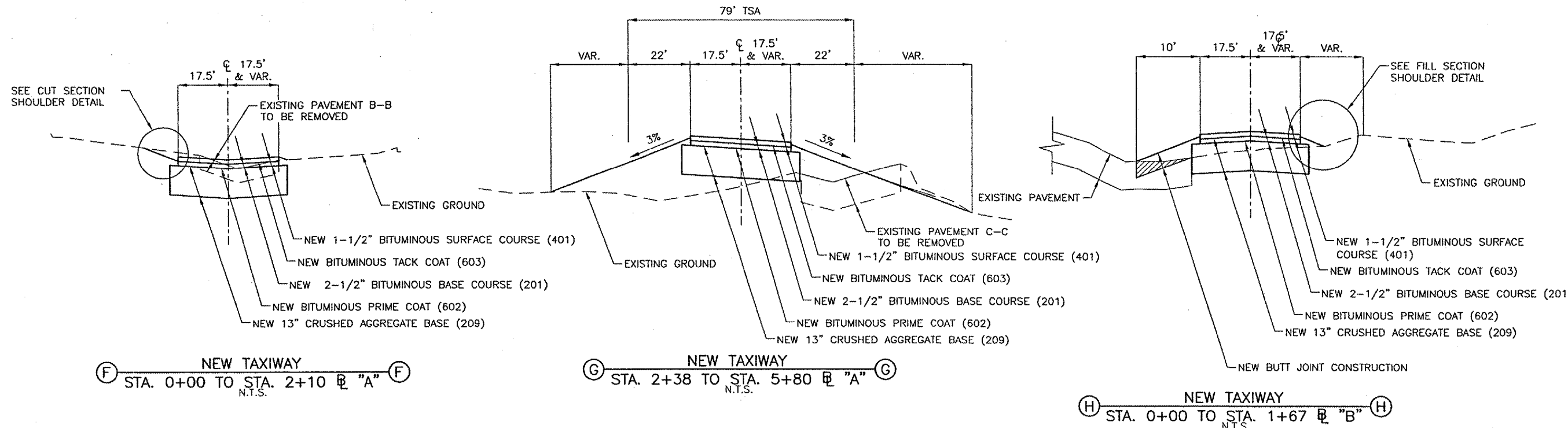
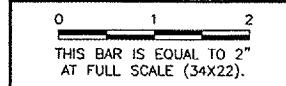
- NEW PAVEMENT - 1-1/2" (401) ON 2-1/2" (201) ON 13" (209)
- PROPOSED 3" PAVEMENT MILLING AND 3" BITUMINOUS PAVING 1-1/2" (401) ON 1-1/2" (401)
- ADDITIVE ALTERNATE #1 - PAVEMENT REMOVAL
- ADDITIVE ALTERNATE #2 - PAVEMENT REMOVAL
- ADDITIVE ALTERNATE #3 - PAVEMENT REMOVAL
- TAR EMULSION SEAL COAT

CA001

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REVISIONS		
NUMBER	BY	DATE



REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
PROPOSED TYPICAL SECTIONS
 SPRINGFIELD AIRPORT AUTHORITY
 ABRAHAM LINCOLN CAPITAL AIRPORT
 SPRINGFIELD, ILLINOIS
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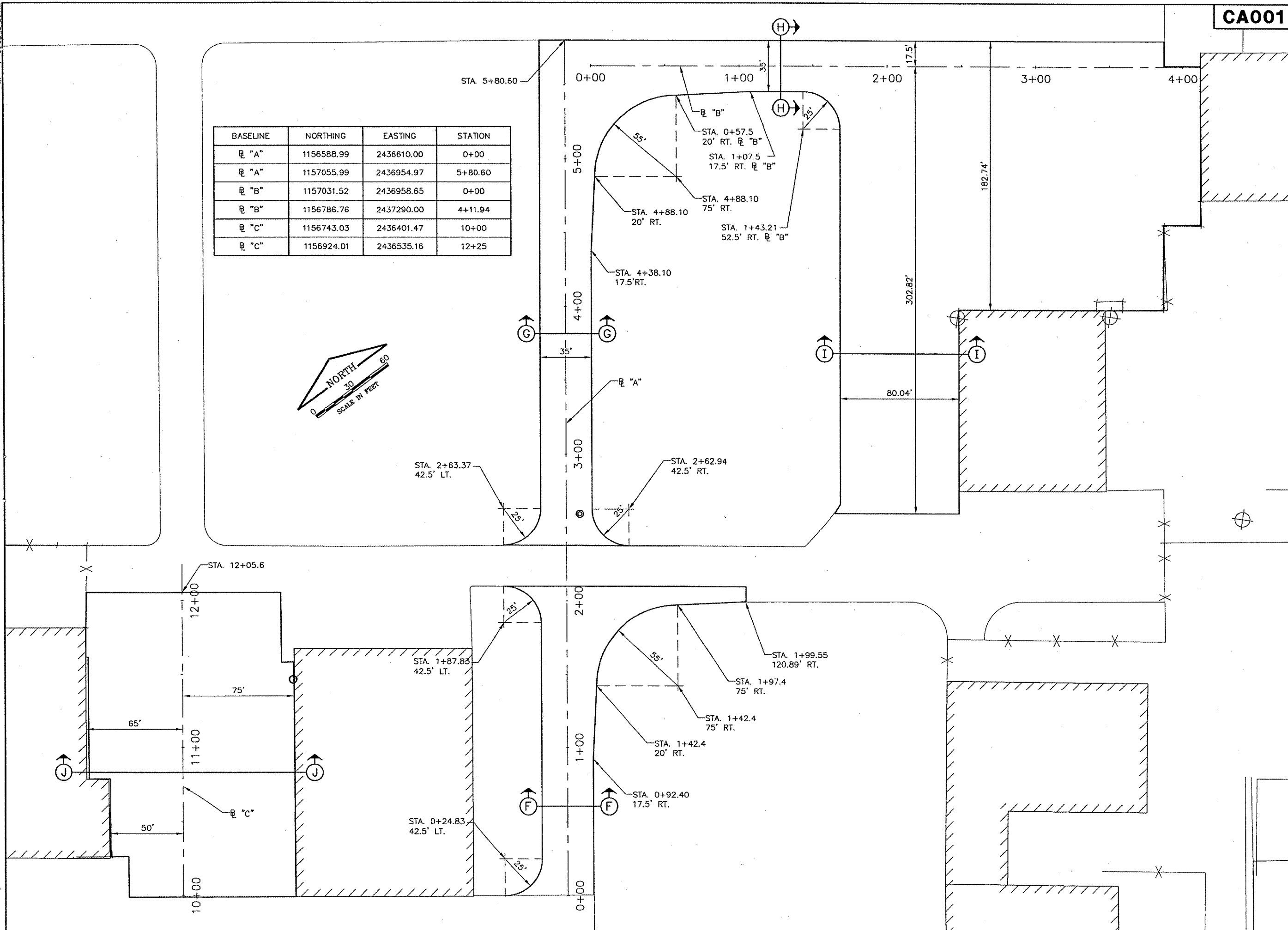
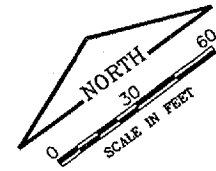
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JOB No:	04035-10-00

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 SEQuadBase.DWG

BASELINE	NORTHING	EASTING	STATION
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℄ "A"	1157055.99	2436954.97	5+80.60
℄ "B"	1157031.52	2436958.65	0+00
℄ "B"	1156786.76	2437290.00	4+11.94
℄ "C"	1156743.03	2436401.47	10+00
℄ "C"	1156924.01	2436535.16	12+25



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

REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
NEW PAVEMENT GEOMETRY

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 CHECKED BY: **CBG**
 APPROVED BY: **RLN**
 DATE: 01/27/2006
 JOB No: 04035-10-00

ILLINOIS PROJECT SPI-3346

SHEET 12 OF 20 SHEETS

MANAGE FILES: Scoringo.lit

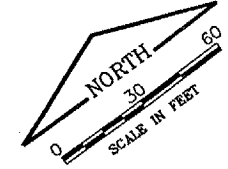
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

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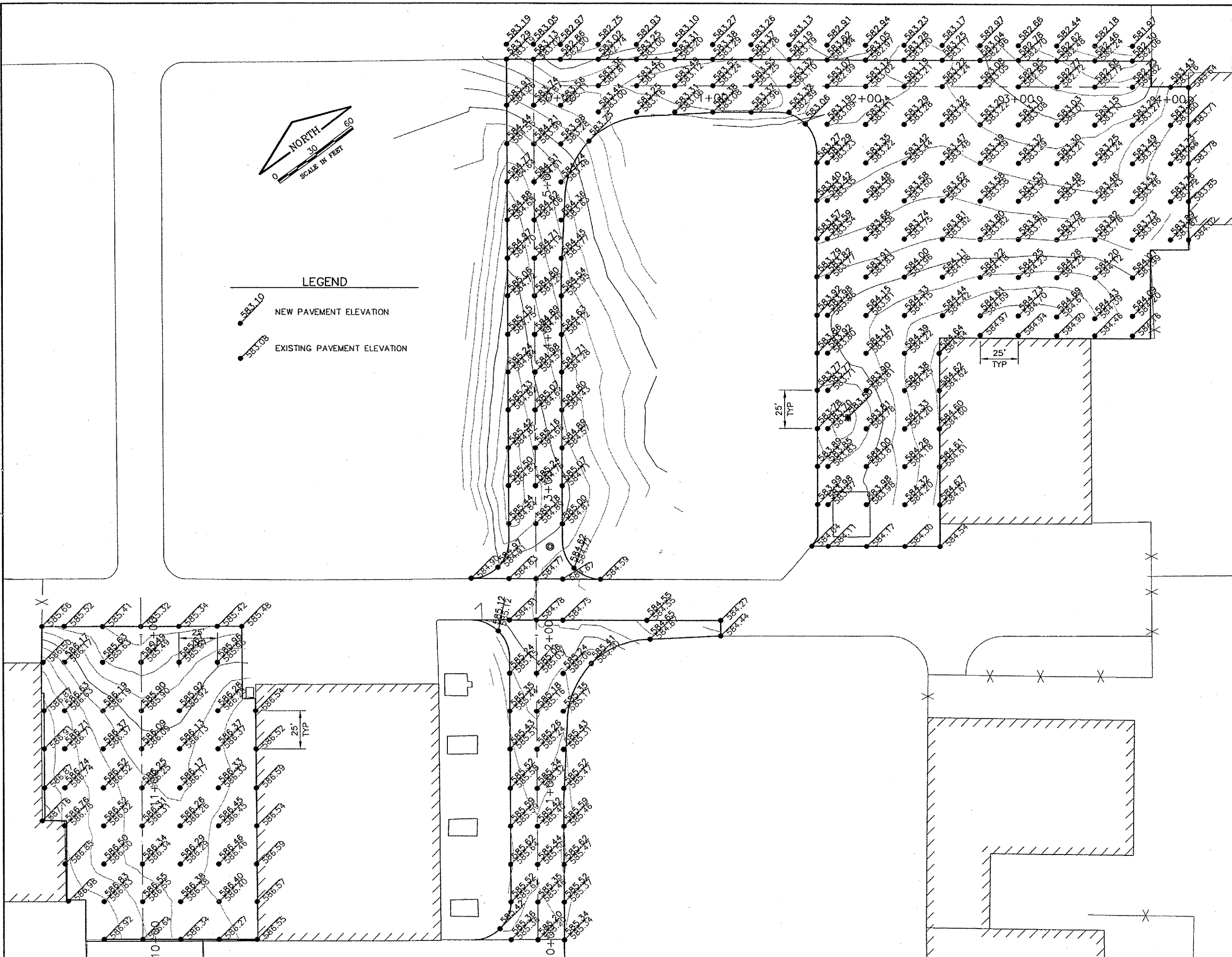
NUMBER	BY	DATE

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



LEGEND

-  NEW PAVEMENT ELEVATION
-  EXISTING PAVEMENT ELEVATION



SPRINGFIELD AIRPORT AUTHORITY
 ABRAHAM LINCOLN CAPITAL AIRPORT
 SPRINGFIELD, ILLINOIS

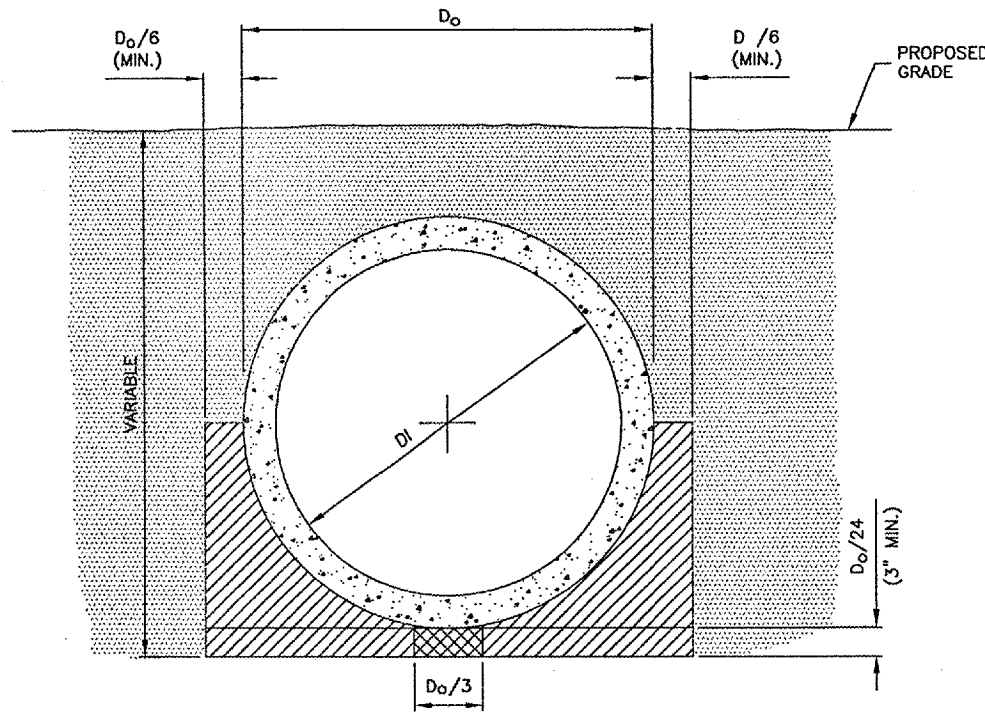
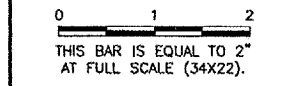
REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
 STAKING PLAN

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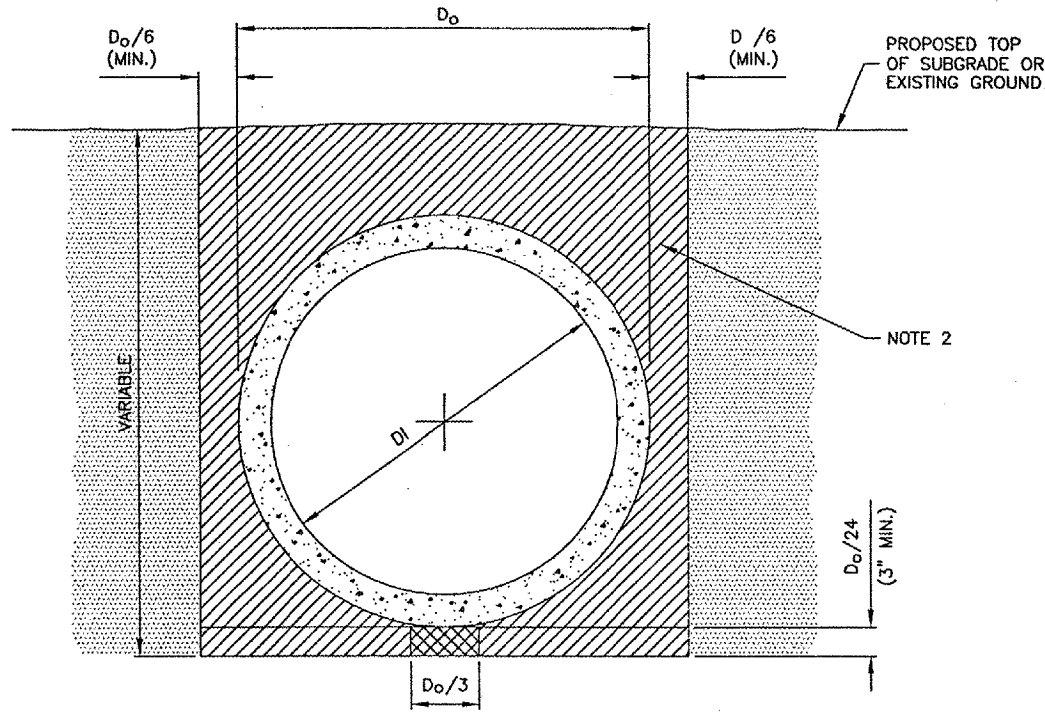
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 CHECKED BY: *CBL*
 APPROVED BY: *RW*
 DATE: 01/27/2006
 JOB No: 04035-10-00

ILLINOIS PROJECT SPI-3346

REVISIONS		
NUMBER	BY	DATE



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



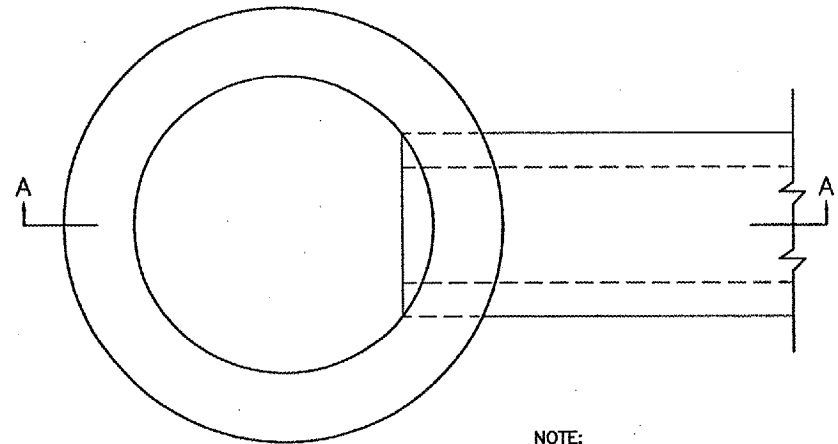
STANDARD TRENCH INSTALLATION
 PROPOSED PAVED AREAS
 N.T.S.

LEGEND

- DRAINAGE CONDUIT MATERIAL—CONCRETE
- MIDDLE BEDDING LOOSELY PLACED UNCOMPACTED BEDDING
- HAUNCH AND OUTER BEDDING COMPACTION— 95% STANDARD PROCTOR
- LOWER SIDE AND OVERFILL COMPACTION— SAME AS EMBANKMENT REQUIREMENTS

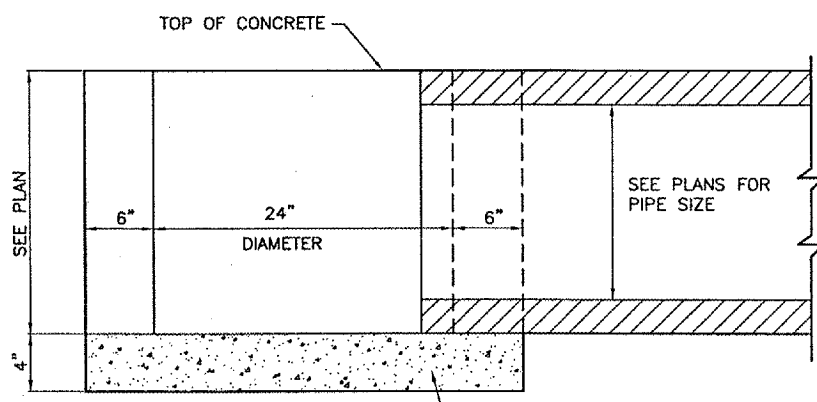
D_o PIPE OUTSIDE DIAMETER
 D_i PIPE INSIDE DIAMETER

- 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.
 - PAVEMENT REMOVAL ASSOCIATED WITH PIPE REMOVAL SHALL BE INCIDENTAL TO THE PIPE REMOVAL COST.

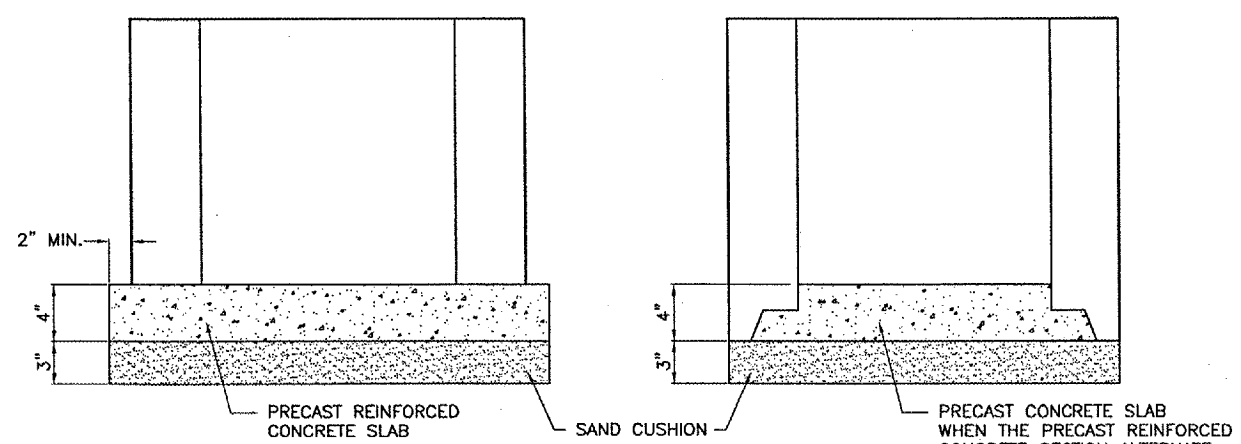


PLAN

NOTE:
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 NEENAH R-2504 OR APPROVED
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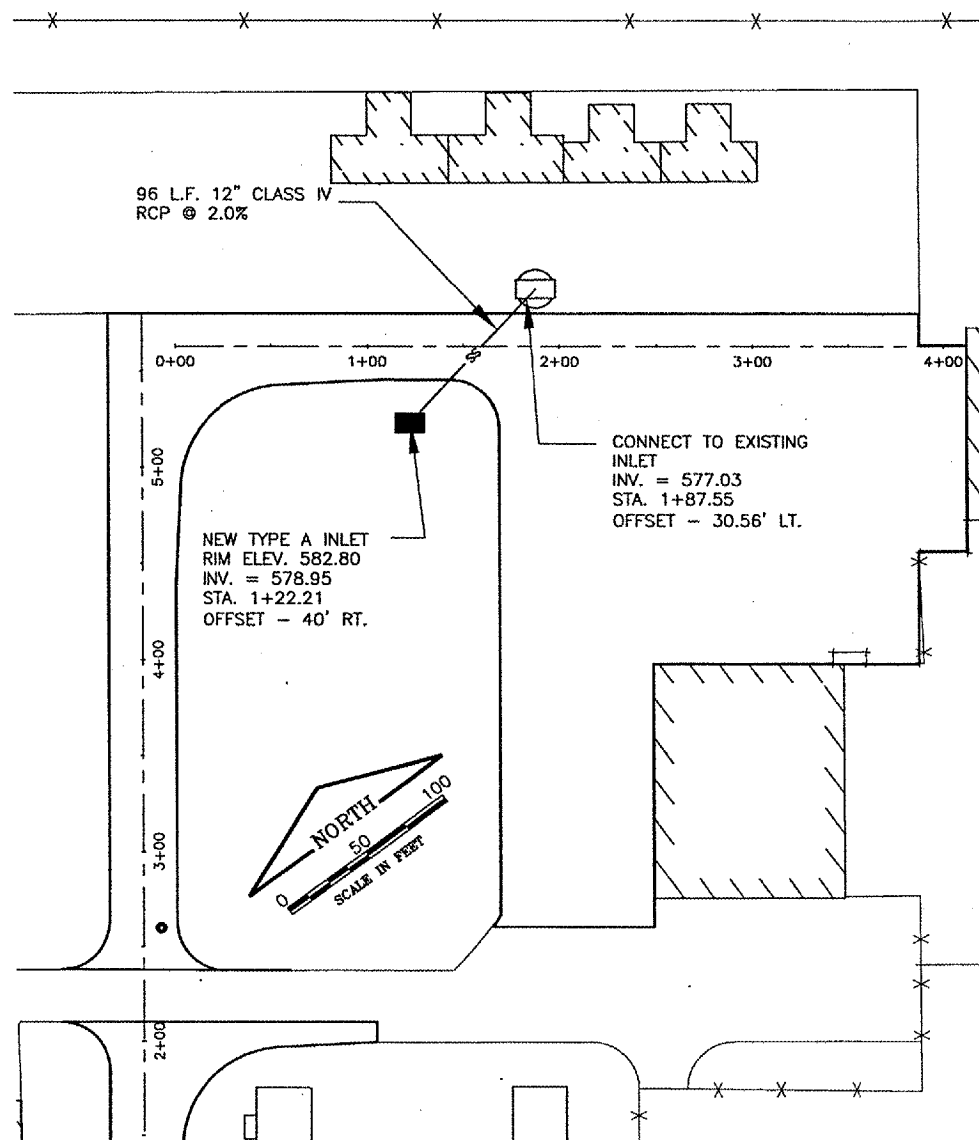


SECTION A-A



ALTERNATE METHODS

IDOT STANDARD 602301
 TYPE A INLET



SPRINGFIELD AIRPORT AUTHORITY
ABRAHAM LINCOLN CAPITAL AIRPORT
SPRINGFIELD, ILLINOIS
REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
DRAINAGE DETAILS

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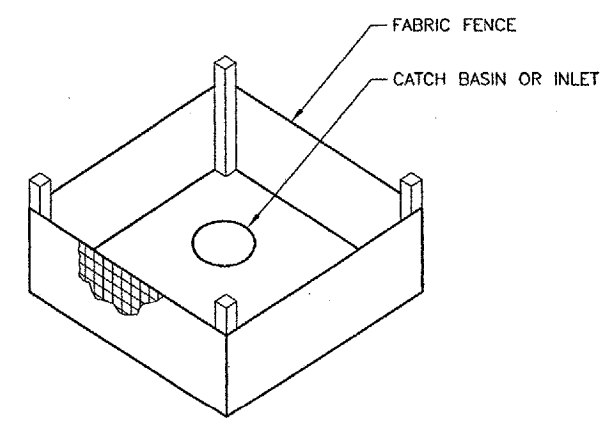
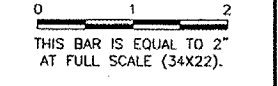
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 DRAWN BY: CMT
 CHECKED BY: *CBL*
 APPROVED BY: *RW*
 DATE: 01/27/2006
 JOB No: 04035-10-00
 ILLINOIS PROJECT SPI-3346
 SHEET 14 OF 20 SHEETS

CA001

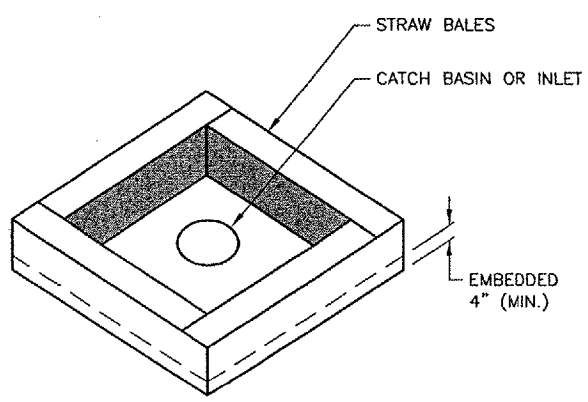
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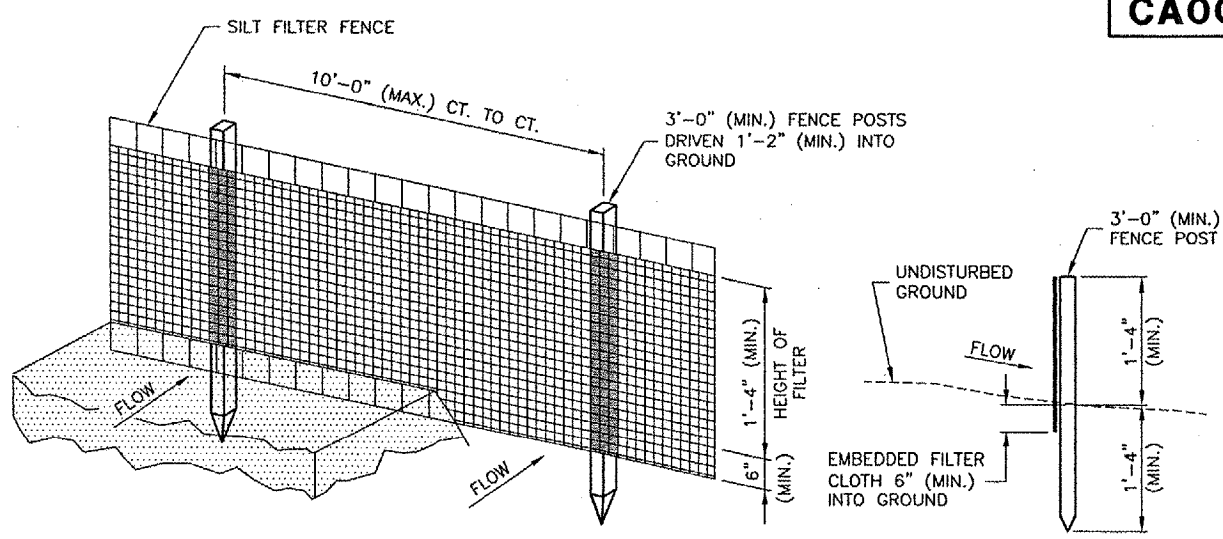
REVISIONS		
NUMBER	BY	DATE



INLET PROTECTION WITH FABRIC
N.T.S.



INLET PROTECTION WITH STRAW BALES
N.T.S.

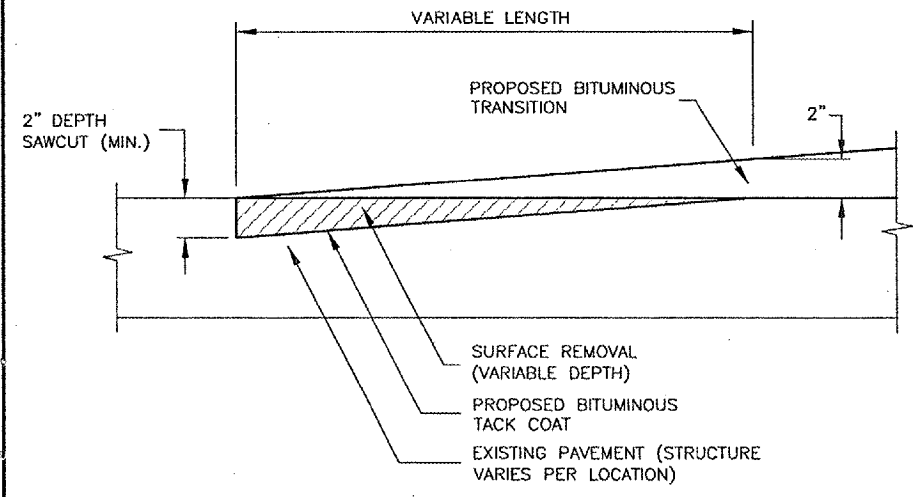


PERSPECTIVE VIEW
SECTION

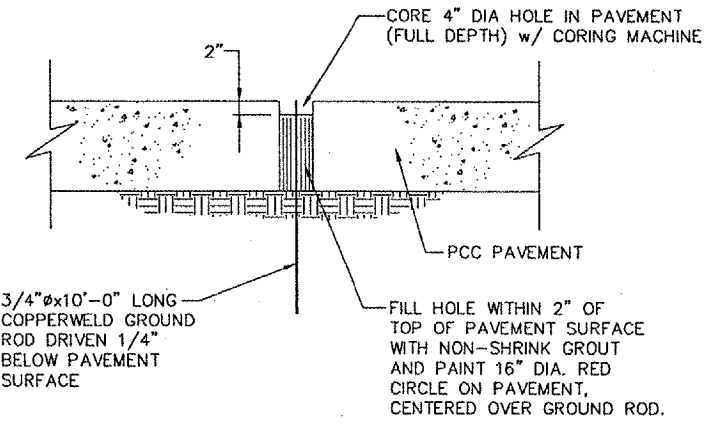
EROSION CONTROL FABRIC FENCE DETAIL
N.T.S.

NOTES

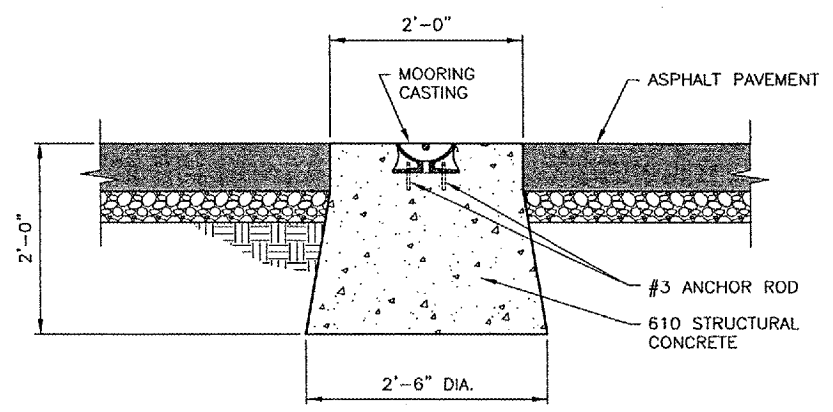
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 2'-0" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" MINIMUM AND FOLDED.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



BUTT JOINT DETAIL
N.T.S.



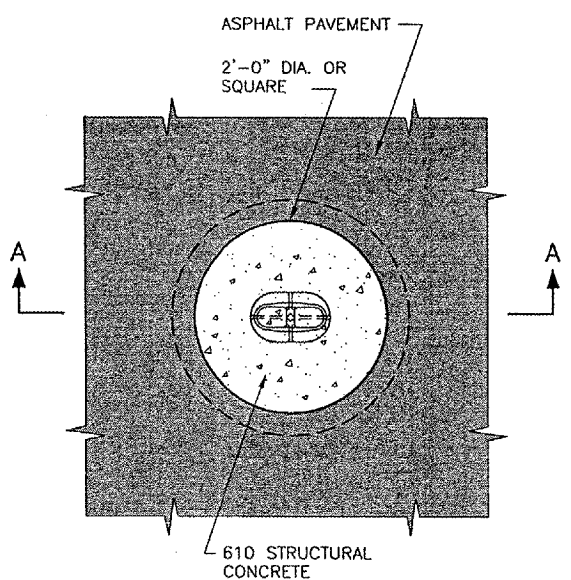
GROUND ROD DETAIL
N.T.S.



SECTION A-A

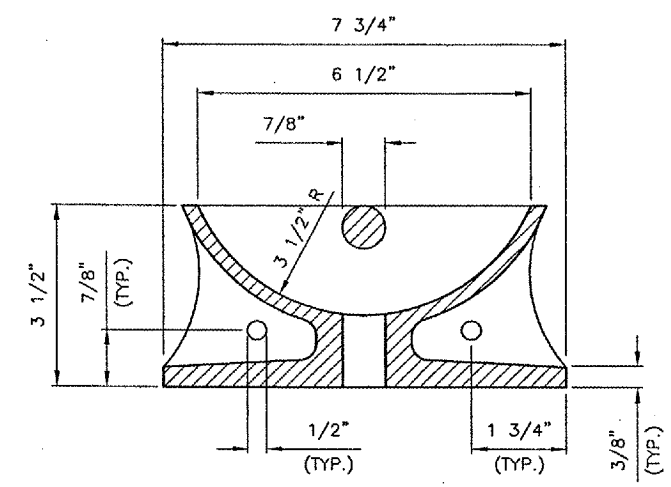
MOORING NOTES

- MOORING CASTINGS SHALL BE NEENAH SEMI-STEEL AIRPORT MOORING EYE CATALOG NO. R3490 OR APPROVED EQUIVALENT.
- ANCHOR RODS SHALL BE #3 DEFORMED REBAR, 15" LONG AND SHALL BE BENT DOWNWARD AT 45 DEGREES.

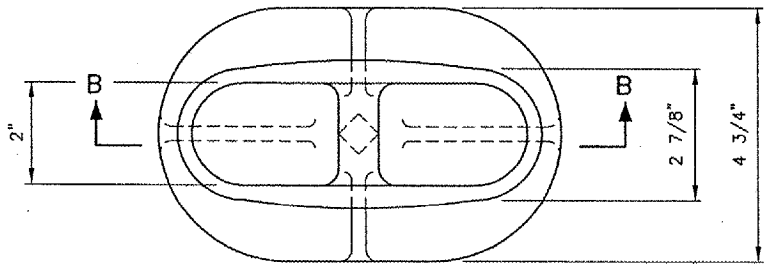


PLAN

MOORING EYE IN PAVEMENT DETAILS
N.T.S.



SECTION B-B



PLAN



SPRINGFIELD AIRPORT AUTHORITY
ABRAHAM LINCOLN CAPITAL AIRPORT
SPRINGFIELD, ILLINOIS

REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
MISCELLANEOUS DETAILS

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DRAWN BY:	CMT
CHECKED BY:	CSL
APPROVED BY:	PLW
DATE:	01/27/2006
JOB No:	04035-10-00

ILLINOIS PROJECT SPI-3346






IMAGE FILES: S:\a\p\11

NOTES

- ADDITIVE ALTERNATE 1, 2 & 3 SEEDING AND MULCHING LIMITS WILL BE THE SAME AS THE REMOVAL LIMITS SHOWN ON SHEET 8.

TIEDOWN LOCATIONS		
	STATION	OFFSET
1	STA. 2+55	50' RT.
2	STA. 3+00	50' RT.
3	STA. 3+45	50' RT.
4	STA. 2+55	100' RT.
5	STA. 3+00	100' RT.
6	STA. 3+45	100' RT.

LEGEND

-  12" TAXIWAY CENTERLINE MARKING REFLECTIVE YELLOW
-  NEW TIE DOWN
-  SEEDING AND MULCHING
-  CROSS SECTION LOCATION
-  NEW GROUNDING POINT

CA001

K:\Springfield\0403510\Draw\Sheets\1105\FILE: 16_MarkPlan.dwg
 LAYOUT: Layout1
 UPDATE BY: cgroth
 SURVEY BOOK #
 DATE: Sat 1/28/06 12:25pm
 XREF DWG: Cinfo.dwg
 Utts9B.dwg
 SEQuadBase.DWG
 CapitalBase.dwg

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



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REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
PAVEMENT MARKING PLAN, TURFING LIMITS, AND INDEX TO CROSS SECTIONS

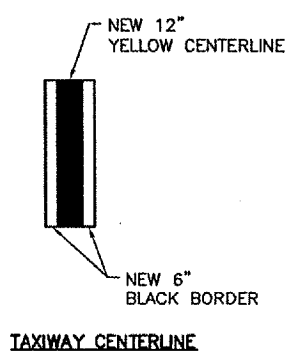
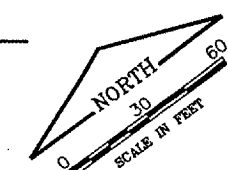
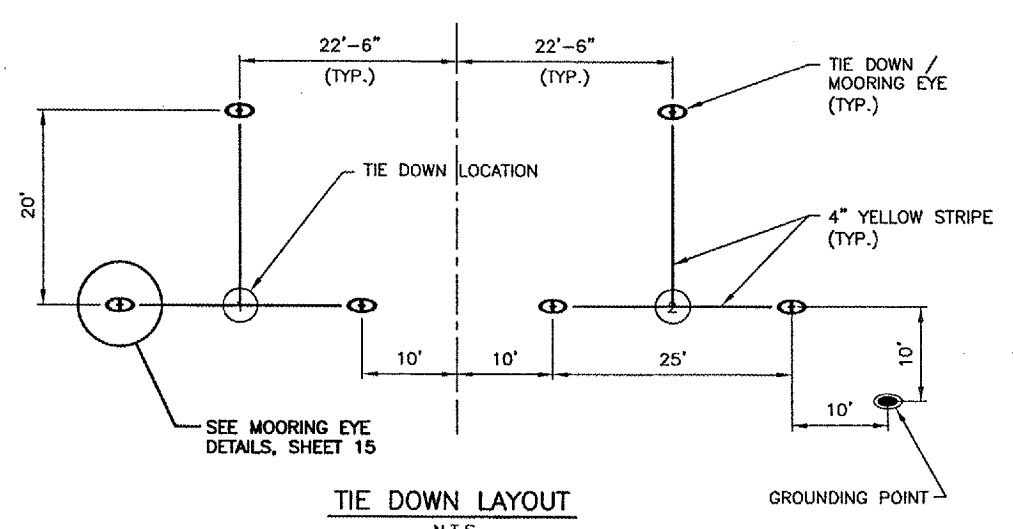
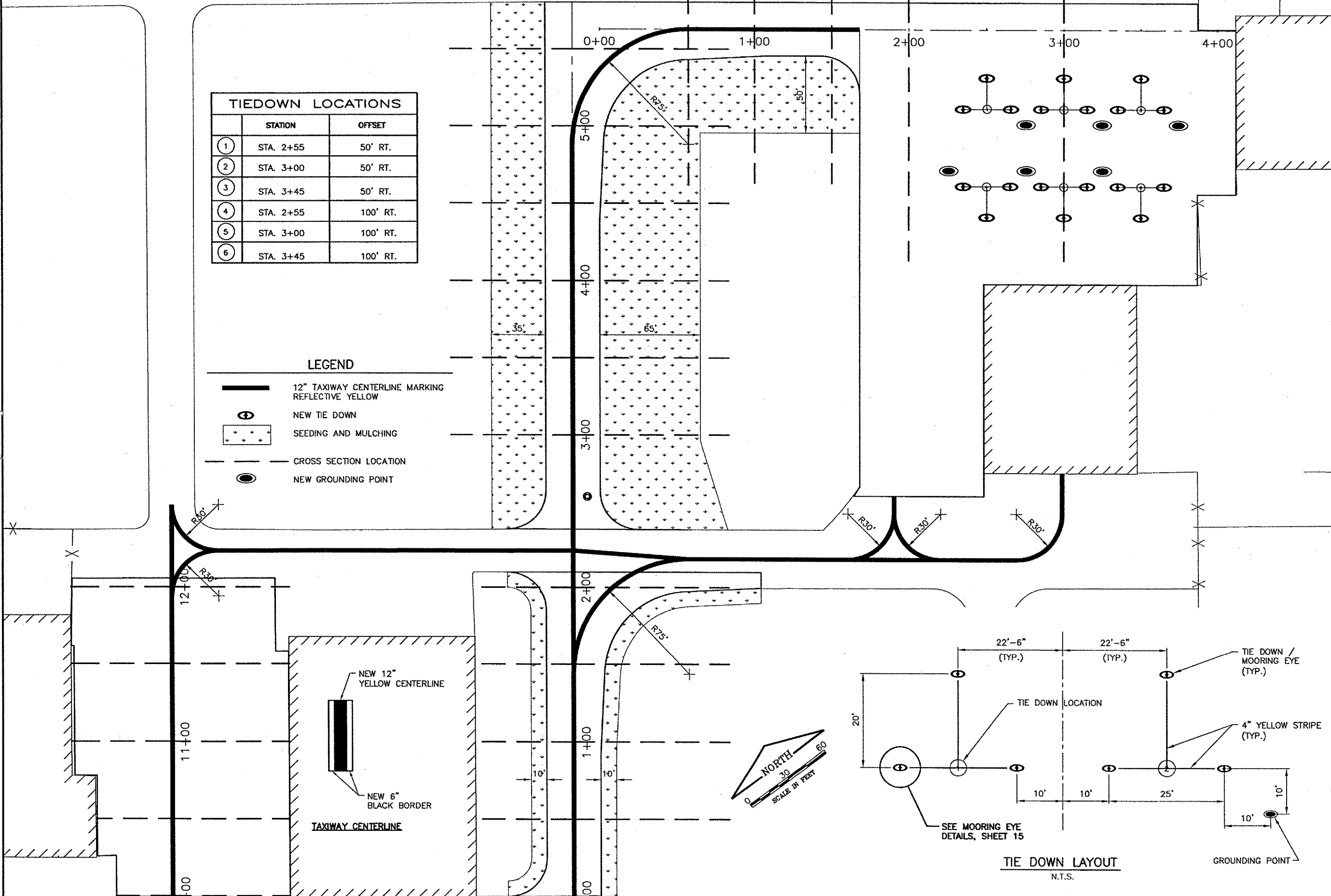
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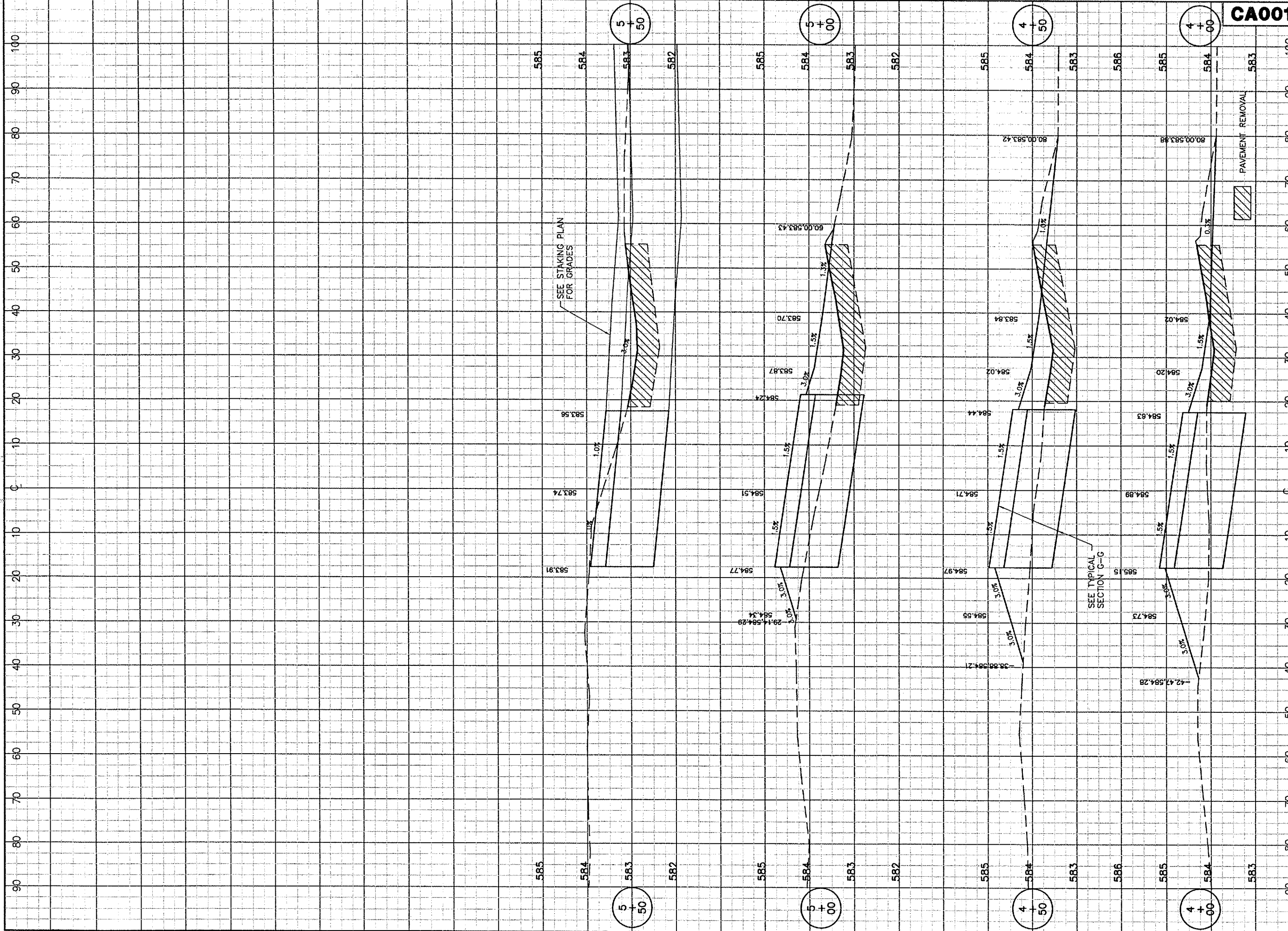


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 DRAWN BY: CMT
 CHECKED BY: *CBL*
 APPROVED BY: *PCW*
 DATE: 01/27/2006
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SHEET 16 OF 20 SHEETS





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 SURVEY BOOK #
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 XREF DWG: Cintinfo.dwg
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REVISIONS		
NUMBER	BY	DATE

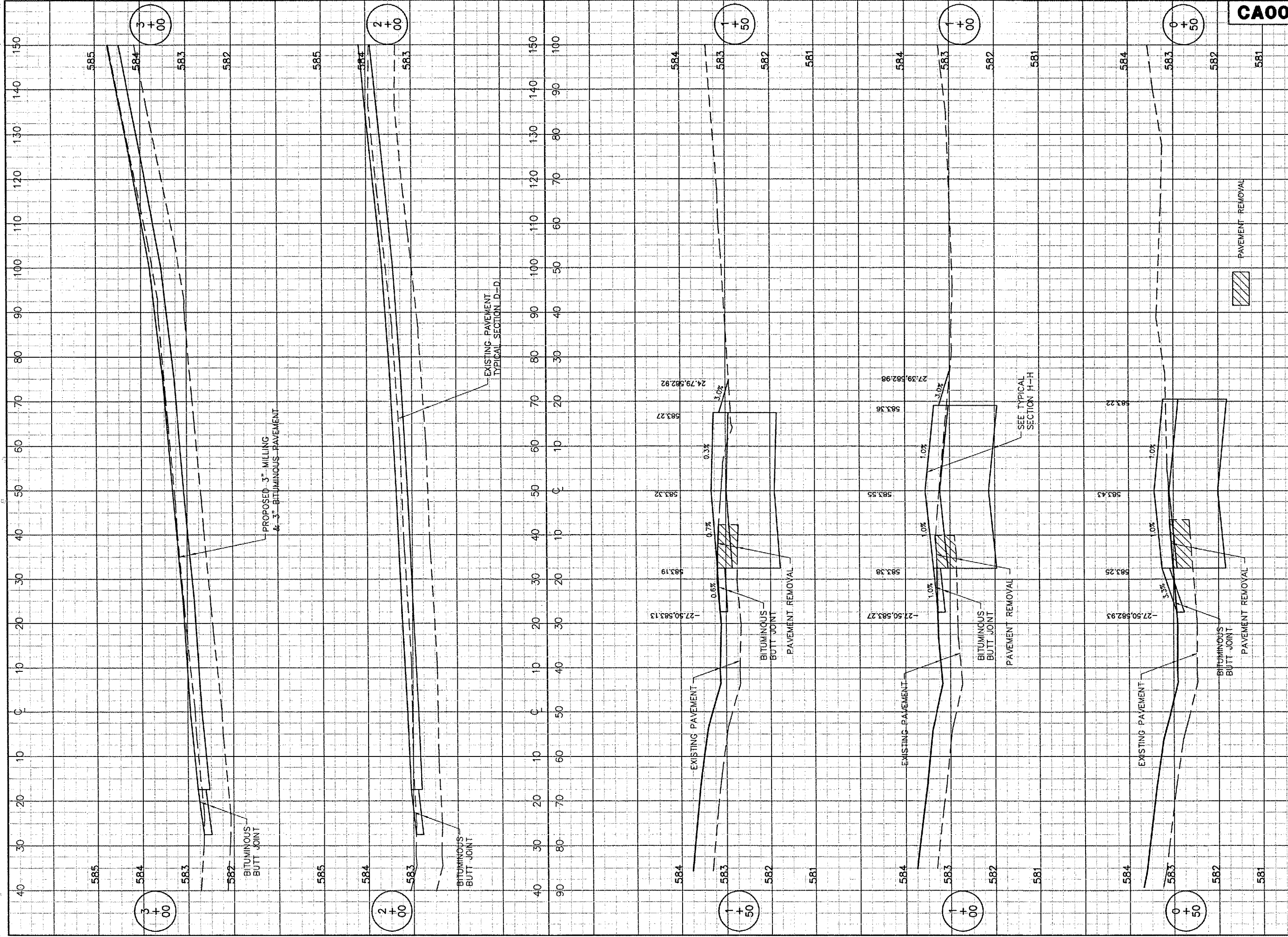
0 1 2
 THIS BAR IS EQUAL TO 2'
 AT FULL SCALE (34X22).

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REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
TAXIWAY 1
CROSS SECTION SHEET
STA. 4+00 TO STA. 5+50

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DATE:	01/27/2006
JOB No:	04035-10-00
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SHEET 18 OF 20 SHEETS	

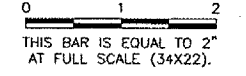


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 UPDATE BY: cgroth
 SURVEY BOOK #
 DATE: Fri 1/20/06 3:23pm
 XREF DWG: C:\info.dwg

IMAGE FILES: Saalogo.tif

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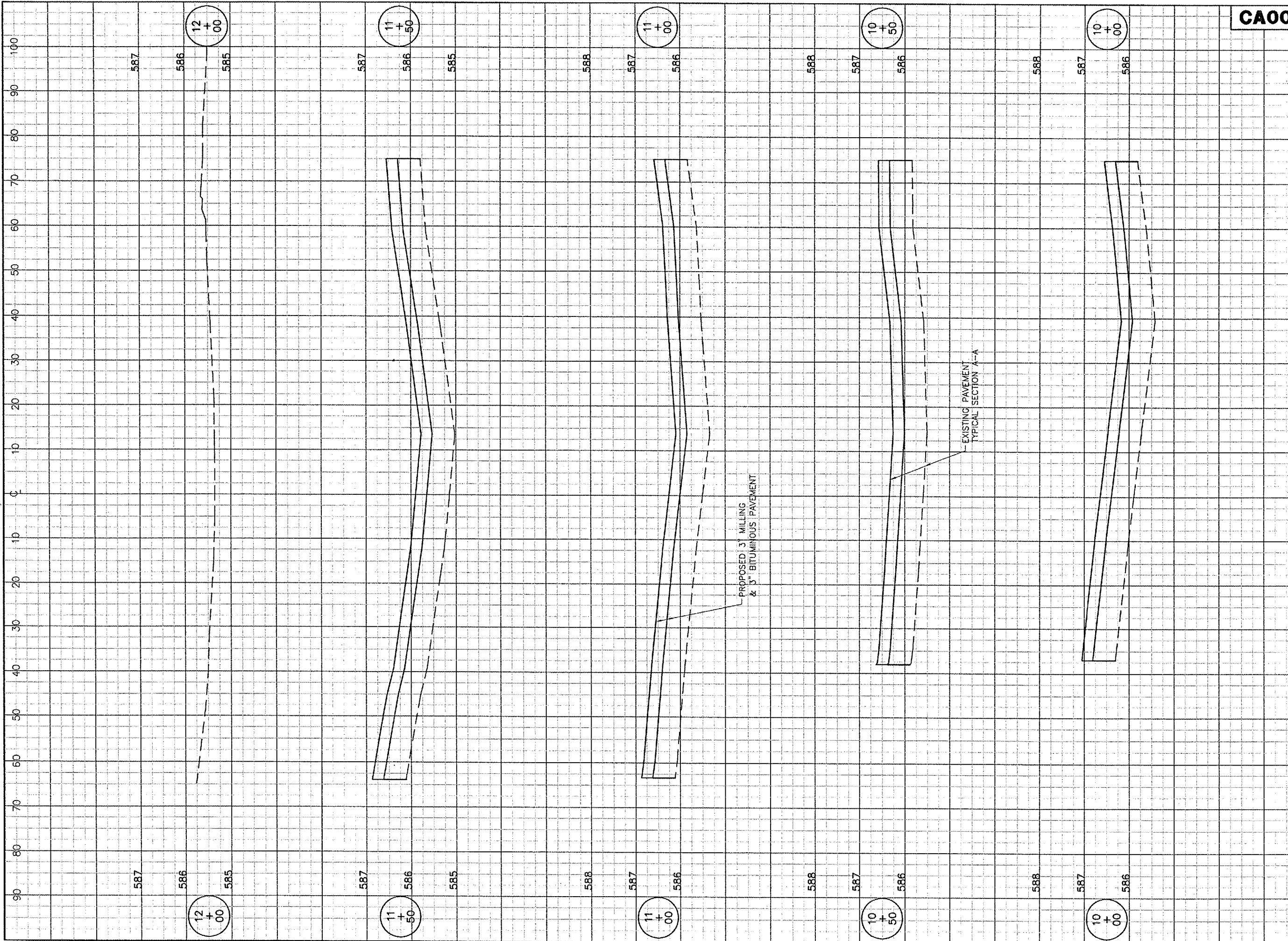
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 SPRINGFIELD, ILLINOIS

**REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
 TAXIWAY 2
 CROSS SECTION SHEET
 STA. 0+50 TO STA. 1+50**

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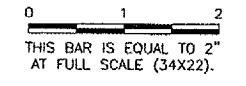


CA001

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 UPDATE BY: cgroth
 SURVEY BOOK #
 DATE: Fri 1/20/06 3:25pm
 XREF DWG: Clntinfo.dwg

IMAGE FILES: Saalogo.tif

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SPRINGFIELD, ILLINOIS

REHABILITATE SOUTHEAST QUADRANT HANGAR PAVEMENTS
HANGAR 2 & 3
TAXILANE CROSS SECTION SHEET
STA. 10+00 TO STA. 12+00

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CHECKED BY:	<i>CBL</i>
APPROVED BY:	<i>RIN</i>
DATE:	01/27/2006
JOB No:	04035-10-00

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