

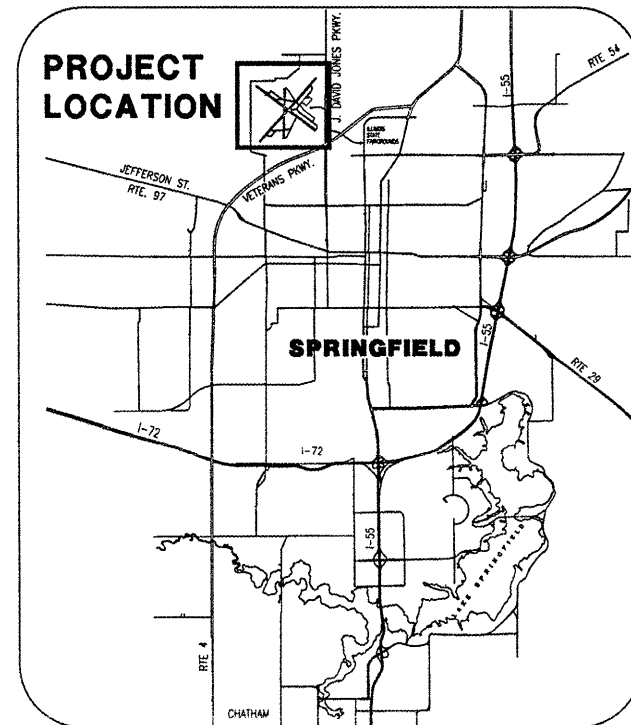
CONSTRUCTION PLANS FOR ABRAHAM LINCOLN CAPITAL AIRPORT

SPRINGFIELD AIRPORT AUTHORITY
SPRINGFIELD, ILLINOIS

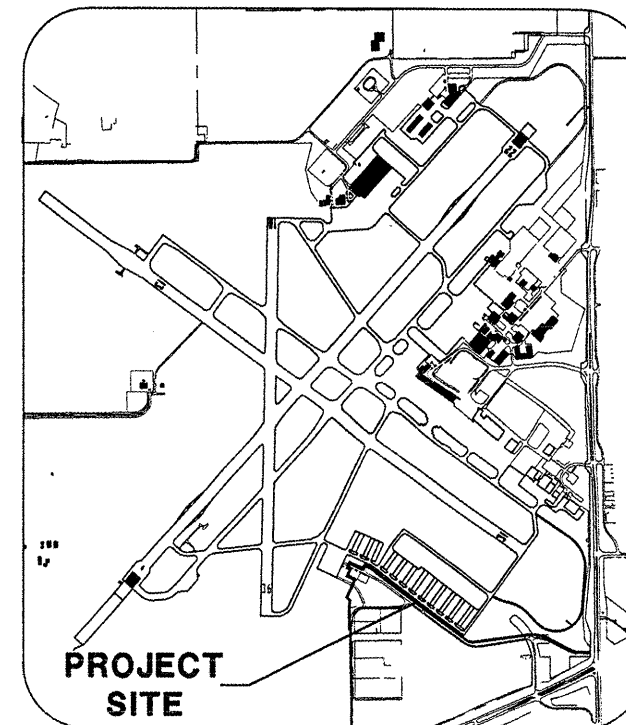
ILLINOIS PROJECT SPI - 3775
A. I. P. PROJECT 3-17-0096-XX

UPGRADE PERIMETER FENCE - PHASE 1

MAY 9, 2008



LOCATION MAP



SITE PLAN

5/9/2008



Christopher B. Groth
Exp. 11/30/2009


811 Know what's below. Call before you dig.
J.U.L.I.E. JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS
www.illinoiscall.com


THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ACTUAL LOCATIONS OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF HIS OPERATIONAL PLANS, OBTAIN FROM RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION AND THE ONE-CALL NOTICE SYSTEM. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH UTILITY OR SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

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

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

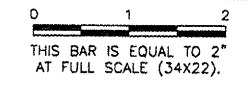
TOWNSHIP: 16 NORTH
RANGE: 5 WEST OF THE 4TH P.M.
SECTION: 16 & 17
COUNTY: SANGAMON
CIVIL TOWNSHIP: CAPITAL


SPRINGFIELD AIRPORT AUTHORITY
ABRAHAM LINCOLN CAPITAL AIRPORT
SPRINGFIELD, ILLINOIS
APPROVED *Mark Schuman*
EXECUTIVE DIRECTOR OF AVIATION
DATE _____

 **GMT**
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
■ SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
SUBMITTED BY *Christopher B. Groth*
DATE *April 18, 2008*
CMT JOB NUMBER 07035-10


CA005

REVISIONS		
NUMBER	BY	DATE



INDEX TO SHEETS	
SHT. NO.	TITLE
01	COVER SHEET
02	INDEX TO SHEETS SUMMARY OF QUANTITIES
03	AIRPORT SITE PLAN
04	CONSTRUCTION ACTIVITY PLAN 1
05	CONSTRUCTION ACTIVITY PLAN 2
06	EXISTING CONDITIONS AND REMOVALS
07	EXISTING GATE LOCATIONS AND GATE TABLE
08	PROPOSED FENCE IMPROVEMENTS
09	EROSION CONTROL DETAILS
10	FENCE DETAILS 1
11	FENCE DETAILS 2
12	FENCE DETAILS 3


SUMMARY OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
BASE BID			
AR156543	RIPRAP-GRADATION NO. 3	S.Y.	225
AR162510	CLASS E FENCE 10'	L.F.	1550
AR800302	ADJUST FENCE HEIGHT	L.F.	2700
AR162900	REMOVE CLASS E FENCE	L.F.	1650
AR162905	REMOVE GATE	EACH	2
AR800303	ADJUST GATE HEIGHT	L.F.	70
AR908520	EXCELSIOR BLANKET	S.Y.	500
ADDITIVE ALTERNATE #1			
AS800302	ADJUST FENCE HEIGHT	L.F.	1000



SPRINGFIELD AIRPORT AUTHORITY
ABRAHAM LINCOLN CAPITAL AIRPORT
SPRINGFIELD, ILLINOIS

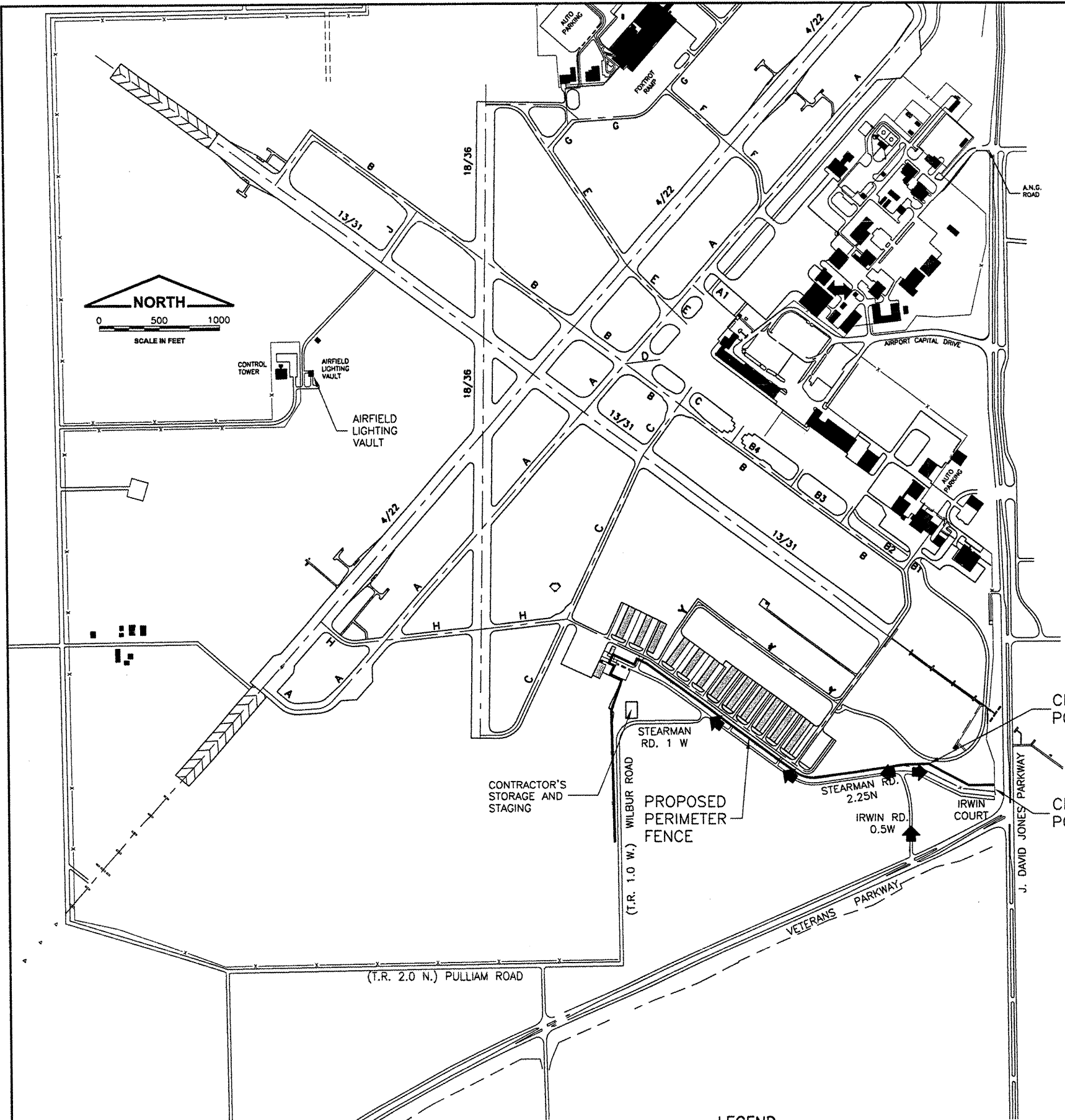
UPGRADE PERIMETER FENCE PHASE 1

INDEX TO SHEETS SUMMARY OF QUANTITIES

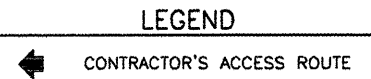


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 DATE: MAY 9, 2008
 JOB No: 07035-10



CRITICAL POINTS			
POINT	LATITUDE	LONGITUDE	ELEVATION
A	39° 50' 05.99"	89° -39' 59.91"	569.32'
B	39° 50' 03.88"	89° -39' -52.04"	532.18'



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

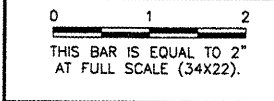
GENERAL NOTES

1. ALL RUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRPORT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED IN THE CONSTRUCTION ACTIVITY PLAN.
2. THE CONTRACTOR SHALL REMAIN WITHIN 50' OF THE EXISTING FENCE LINE AT ALL TIMES DURING CONSTRUCTION. AT NO TIME SHOULD THE CONTRACTOR OR HIS PERSONNEL ACCESS ANY ACTIVE AIRFIELD PAVEMENTS. PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR'S SUPERINTENDENT SHALL BE REQUIRED TO ATTEND TRAINING COURSES AT THE AIRPORT TO BECOME AWARE OF POLICIES AND PROCEDURES ASSOCIATED WITH WORKING WITHIN THE AIRPORT SECURITY FENCE.
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.
5. BROKEN CONCRETE SHALL BE DISPOSED OF BY THE CONTRACTOR OFF OF AIRPORT PROPERTY.
6. VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED WITHIN 95' FROM THE CENTERLINE OF ACTIVE TAXIWAYS OR 250' 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 THE AIRPORT. NO ADDITIONAL COMPENSATION SHALL BE MADE TO THE CONTRACTOR FOR THIS WORK.
8. 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.
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 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.
11. THE CONTRACTOR SHALL MAINTAIN A SECURE AIRFIELD PERIMETER WITH EXISTING, TEMPORARY, RELOCATED OR PERMANENT MINIMUM 6' TALL FENCE THROUGHOUT THE DURATION OF THE PROJECT, COST OF ERECTION AND REMOVAL OF TEMPORARY FENCE WILL BE INCIDENTAL TO CONTRACT.
12. CONTRACTOR'S ACCESS SHALL BE AS FOLLOWS:
 - A. THE CONTRACTOR'S ACCESS TO WORK SHALL BE AS SHOWN IN THE PLANS.
 - B. THE CONTRACTOR SHALL COMPLETE A SECURITY FORM FOR ALL PERSONNEL HE PROPOSES TO USE ON THE AIRPORT. THESE FORMS SHALL BE COMPLETED PRIOR TO THAT PERSON BEING ALLOWED ON THE AIRFIELD. A LIST OF PERSONNEL AUTHORIZED TO WORK ON THE AIRFIELD SHALL BE PROVIDED TO THE RESIDENT ENGINEER BY THE CONTRACTOR.
 - C. 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.
 - D. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND TEMPORARY EASEMENTS FOR THE PUBLIC ACCESS ROAD(S) SHOWN AND SHALL COMPLY WITH ALL REQUIREMENTS, LOAD RESTRICTIONS, & TRAFFIC CONTROL SIGNAGE REQUIRED BY THE CITY, COUNTY, TOWNSHIP, OR I.D.O.T.
 - E. DURING ADVERSE WEATHER THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF THE CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE 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 AND TAXIWAY SAFETY 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.

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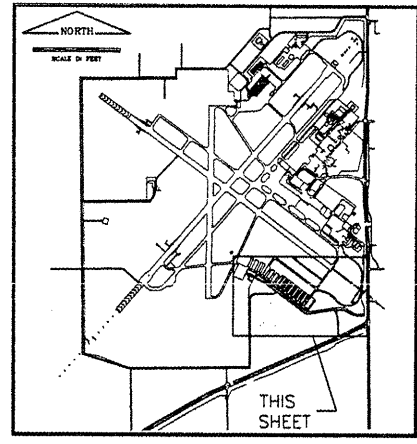
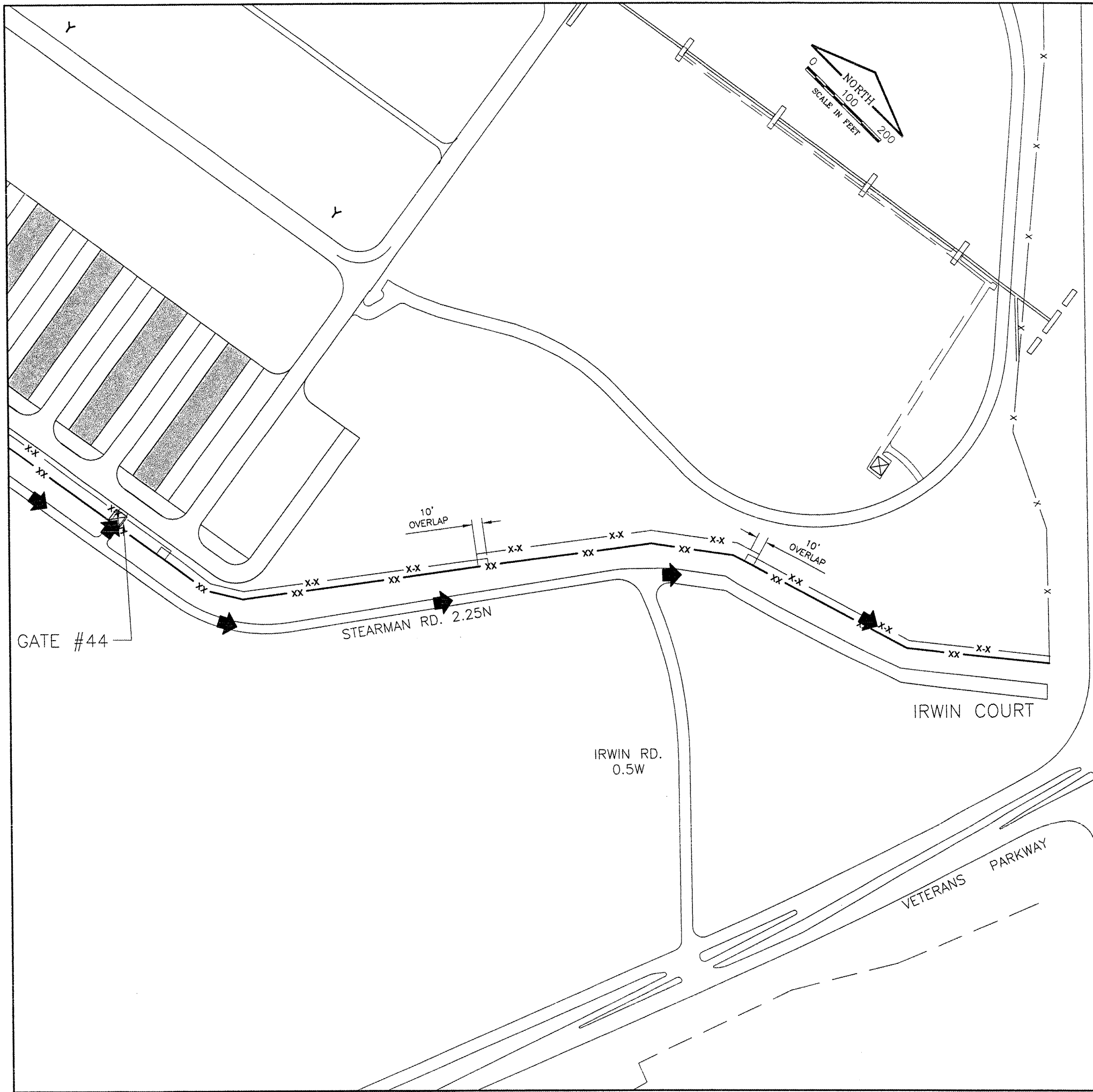


SPRINGFIELD AIRPORT AUTHORITY
 ABRAHAM LINCOLN CAPITAL AIRPORT
 SPRINGFIELD, ILLINOIS

UPGRADE PERIMETER FENCE PHASE 1
 AIRPORT SITE PLAN

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IL PROJ. NO.	SPI-3775
AIP PROJ. NO.	3-17-0096-XX
SHEET	03 OF 12 SHEETS

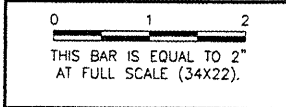


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PHASING NOTES

1. ACCESS WILL BE GAINED THROUGH GATE #44 FOR PLACEMENT OF TEMPORARY FENCING.
2. ONCE TEMPORARY FENCE IS INSTALLED THE CONTRACTOR SHALL ACCESS SITE FROM STEARMAN ROAD.
3. IN AREAS WHERE THE FENCE HEIGHT IS BEING ADJUSTED, THE CONTRACTOR WILL HAVE THE OPTION TO CONSTRUCT THESE AREAS WITHOUT PLACEMENT OF TEMPORARY FENCE PROVIDED THAT THERE ARE NO GAPS IN THE FENCING AT THE END OF EACH CONSTRUCTION DAY.
4. CONTRACTOR CONSTRUCTION ACTIVITY SHALL NOT INTERFERE WITH TENANT OR AIRPORT ACCESS.
5. CONTRACTOR SHALL PLACE THE TEMPORARY FENCE AT AN OFFSET THAT DOES NOT ENCR OACH ON TENANT ACCESS OR EXISTING GATES AND GATE OPERATORS.
6. CONTRACTOR SHALL PLACE TEMPORARY FENCE AT A MAXIMUM OFFSET OF 5' IN AREAS ADJACENT TO EXISTING TAXIWAYS.

LEGEND

- **xx** — NEW FENCE
- **x-x** — TEMPORARY FENCE
- **x** — EXISTING FENCE
- ➔ CONTRACTOR ACCESS ROUTE
- ☒ EXISTING GATE

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

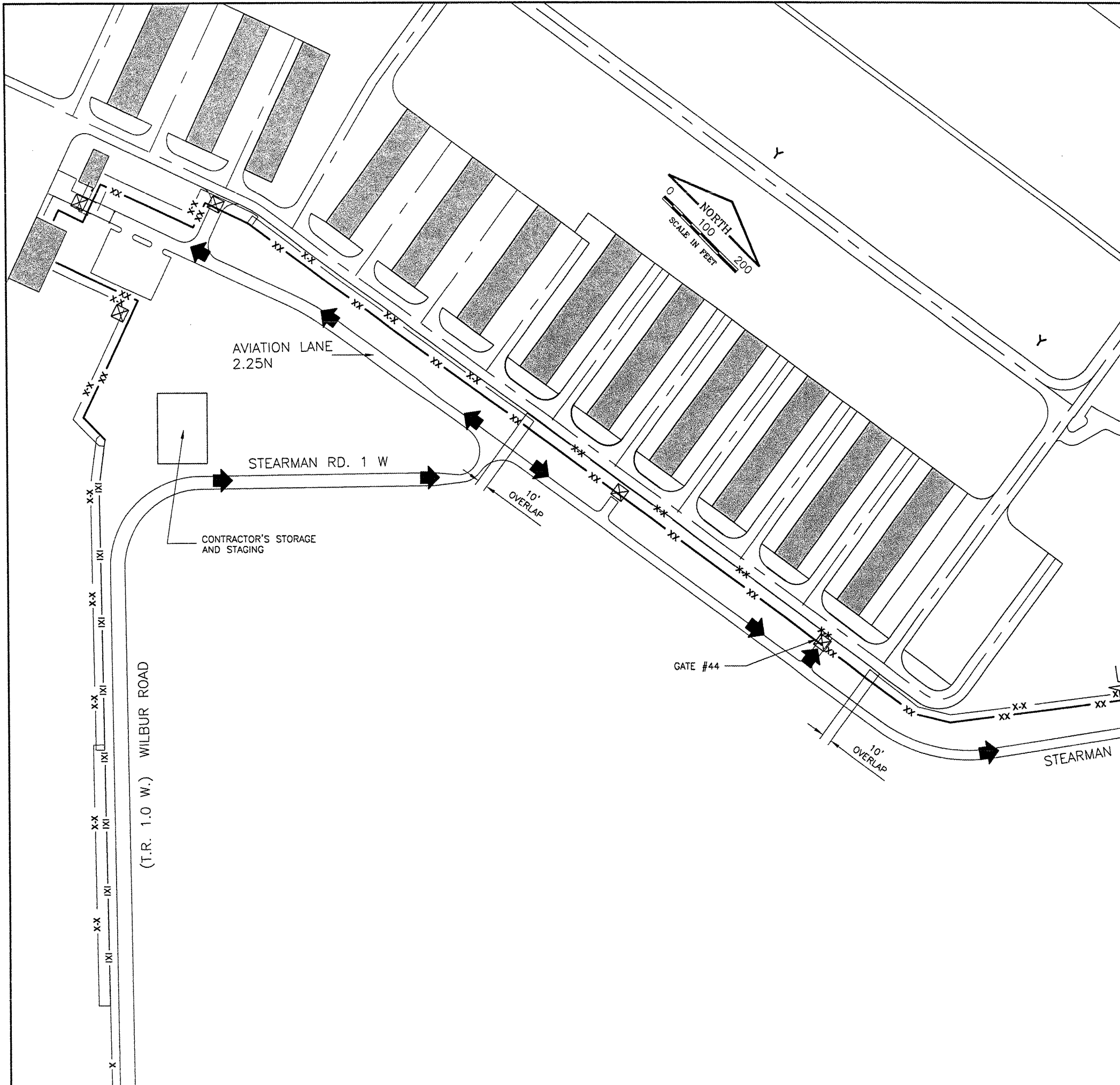


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**UPGRADE PERIMETER FENCE PHASE 1
 CONSTRUCTION ACTIVITY PLAN 1**

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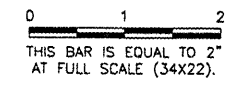
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PHASING NOTES

1. ACCESS WILL BE GAINED THROUGH GATE #44 FOR PLACEMENT OF TEMPORARY FENCING.
2. ONCE TEMPORARY FENCE IS INSTALLED THE CONTRACTOR SHALL ACCESS SITE FROM STEARMAN AND WILBUR ROAD.
3. IN AREAS WHERE THE FENCE HEIGHT IS BEING ADJUSTED, THE CONTRACTOR WILL HAVE THE OPTION TO CONSTRUCT THESE AREAS WITHOUT PLACEMENT OF TEMPORARY FENCE PROVIDED THAT THERE ARE NO GAPS IN THE FENCING AT THE END OF EACH CONSTRUCTION DAY.
4. CONTRACTOR CONSTRUCTION ACTIVITY SHALL NOT INTERFERE WITH TENANT OR AIRPORT ACCESS.
5. CONTRACTOR SHALL PLACE THE TEMPORARY FENCE AT AN OFFSET THAT DOES NOT ENCROACH ON TENANT ACCESS OR EXISTING GATES AND GATE OPERATORS.
6. CONTRACTOR SHALL PLACE TEMPORARY FENCE AT A MAXIMUM OFFSET OF 5' IN AREAS ADJACENT TO EXISTING TAXIWAYS.

LEGEND

- XX NEW FENCE
- x-x TEMPORARY FENCE
- IXI ADDITIVE ALTERNATE
- ➔ CONTRACTOR ACCESS ROUTE
- ⊠ EXISTING GATE

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



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UPGRADE PERIMETER FENCE PHASE 1
 CONSTRUCTION ACTIVITY PLAN 2

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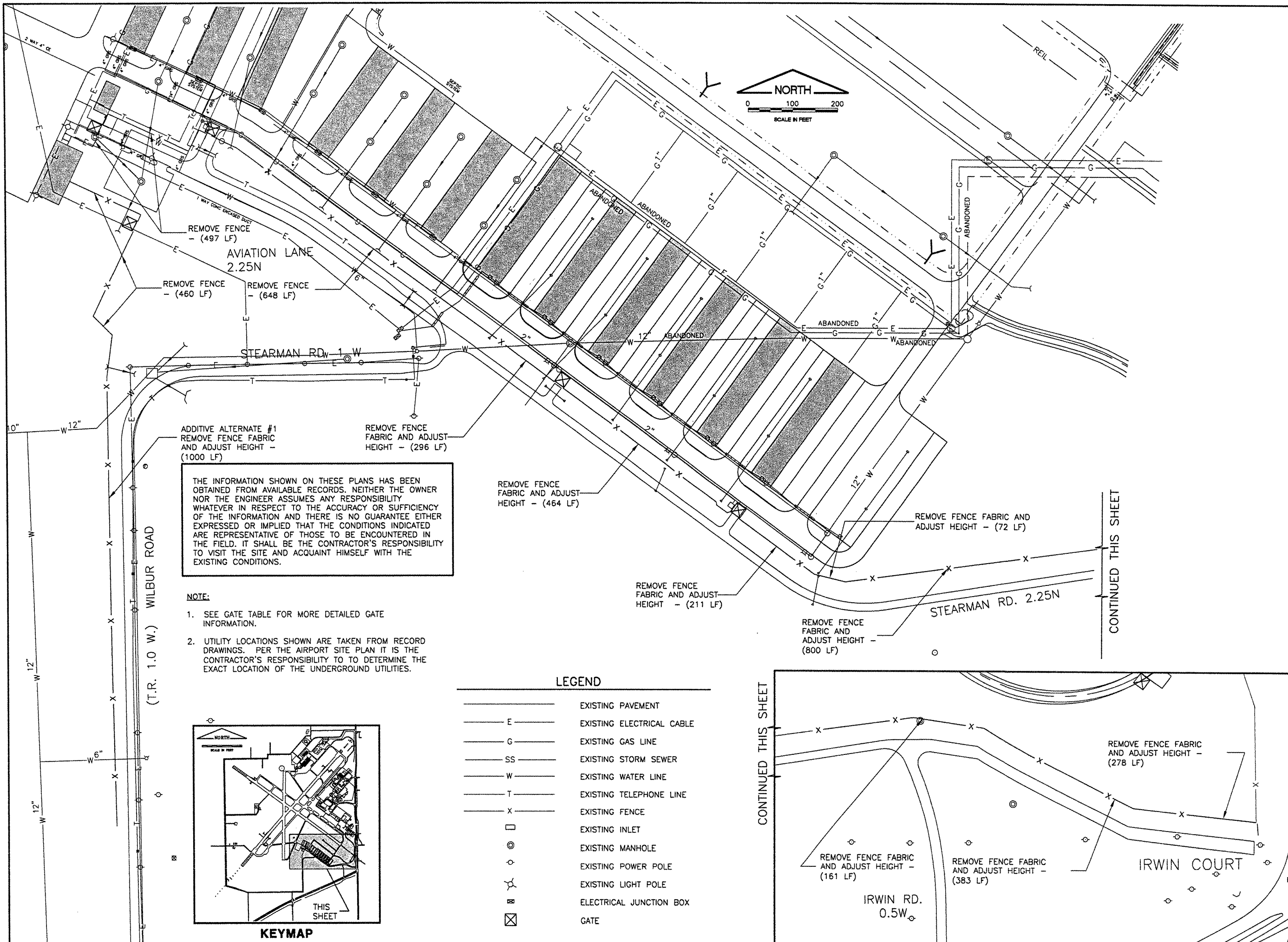
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SPRINGFIELD, ILLINOIS

UPGRADE PERIMETER FENCE PHASE 1
EXISTING CONDITIONS AND REMOVALS

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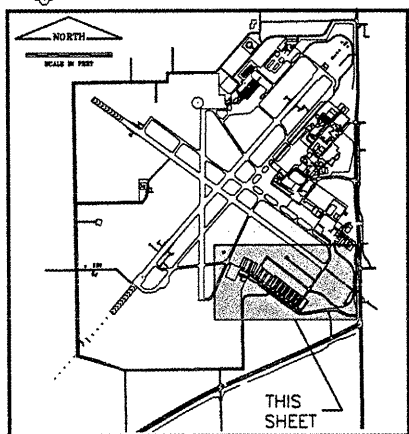


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- NOTE:**
1. SEE GATE TABLE FOR MORE DETAILED GATE INFORMATION.
 2. UTILITY LOCATIONS SHOWN ARE TAKEN FROM RECORD DRAWINGS. PER THE AIRPORT SITE PLAN IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES.

LEGEND

—	EXISTING PAVEMENT
— E —	EXISTING ELECTRICAL CABLE
— G —	EXISTING GAS LINE
— SS —	EXISTING STORM SEWER
— W —	EXISTING WATER LINE
— T —	EXISTING TELEPHONE LINE
— X —	EXISTING FENCE
□	EXISTING INLET
⊙	EXISTING MANHOLE
⊕	EXISTING POWER POLE
⊙	EXISTING LIGHT POLE
⊞	ELECTRICAL JUNCTION BOX
⊞	GATE



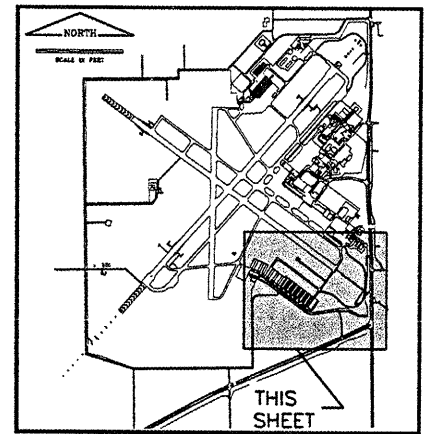
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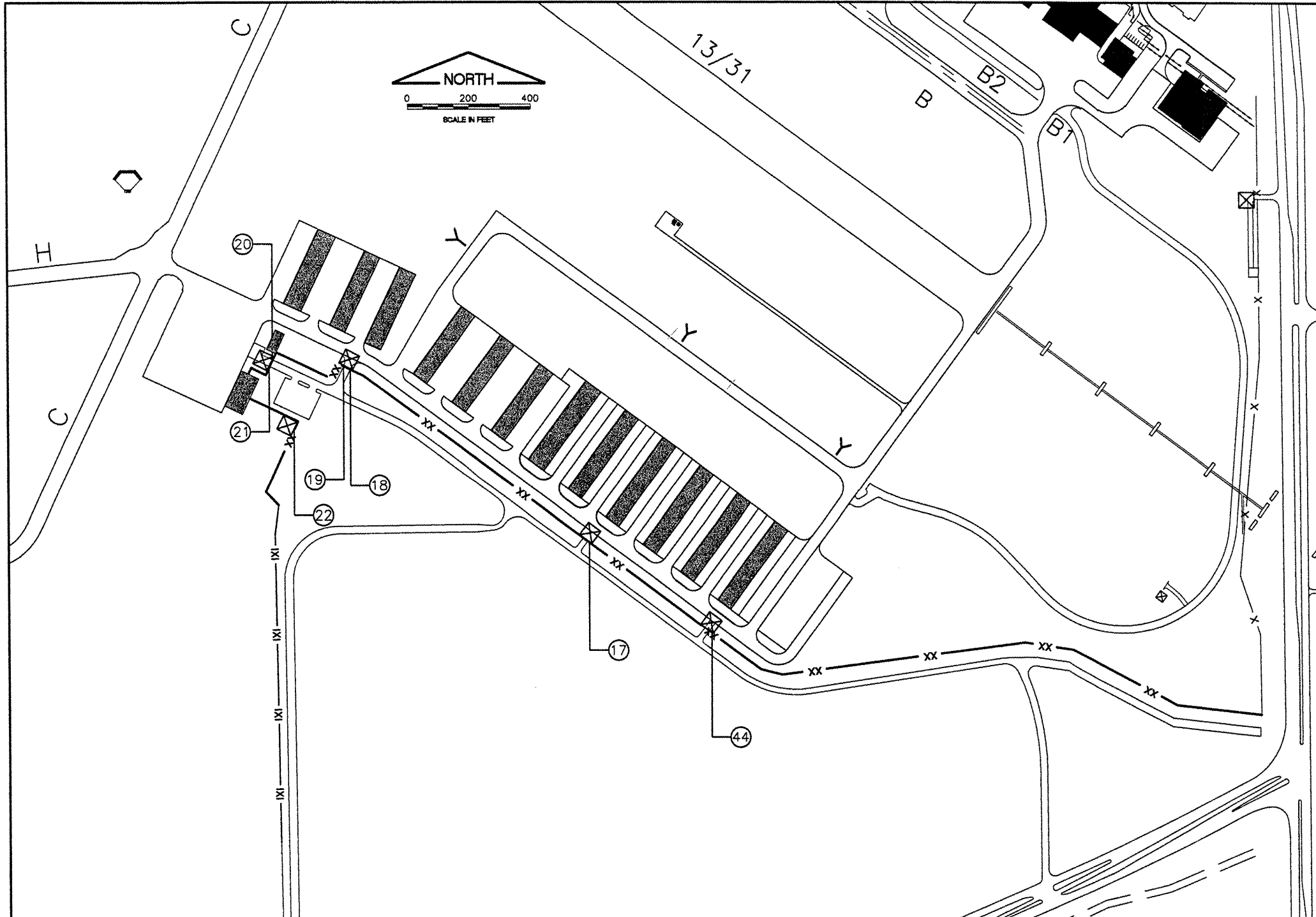
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KEYMAP



LEGEND

— X —	EXISTING
— XX —	NEW OR ADJUSTED FENCING
— IXI —	ADDITIVE ALTERNATE #1
⊗ ⊠	EXISTING GATES AND GATE NUMBER

NOTE:

- GATES 17 AND 22 TO BE REMOVED.
- NO IMPROVEMENTS WILL BE MADE TO EXISTING ELECTRIC GATES AS PART OF THIS PROJECT BEYOND EXTENSION ARMS AND BARBED WIRE.

GATE #	GATE DESCRIPTION AND LOCATION	EXISTING GATE TYPE	PROPOSED IMPROVEMENT	PAY ITEM
17	CHARLIE RAMP CONSTRUCTION ENTRANCE	24' x 8' VEHICLE SWING GATE	REMOVE GATE	AR162905
18	CHARLIE RAMP TENANT ENTRANCE	12' x 6' ELECTRIC CANTILEVER	ADJUST GATE HEIGHT TO 11' TOTAL HEIGHT	AR800303
19	CHARLIE RAMP TENANT ENTRANCE	4' x 6' PEDESTRIAN SWING GATE	ADJUST GATE HEIGHT TO 11' TOTAL HEIGHT	AR800303
20	FUEL FARM/MCCLELLAND AVIATION	24' x 6' ELECTRIC CANTILEVER	ADJUST GATE HEIGHT TO 11' TOTAL HEIGHT	AR800303
21	FUEL FARM/MCCLELLAND AVIATION	4' x 6' PEDESTRIAN SWING GATE	ADJUST GATE HEIGHT TO 11' TOTAL HEIGHT	AR800303
22	MCCLELLAND AVIATION CONSTRUCTION ENTRANCE	24' x 6' VEHICLE SWING GATE	REMOVE GATE	AR162905
44	CHARLIE RAMP AIRPORT ENTRANCE	24' x 8' ELECTRIC CANTILEVER	ADJUST GATE HEIGHT TO 11' TOTAL HEIGHT	AR800303



SPRINGFIELD AIRPORT AUTHORITY
 ABRAHAM LINCOLN CAPITAL AIRPORT
 SPRINGFIELD, ILLINOIS

UPGRADE PERIMETER FENCE PHASE 1

EXISTING GATE LOCATIONS AND GATE TABLE

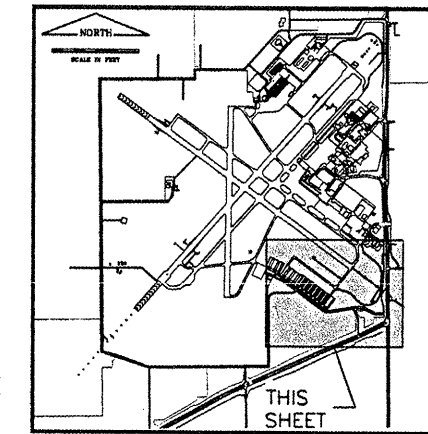
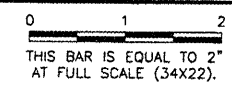
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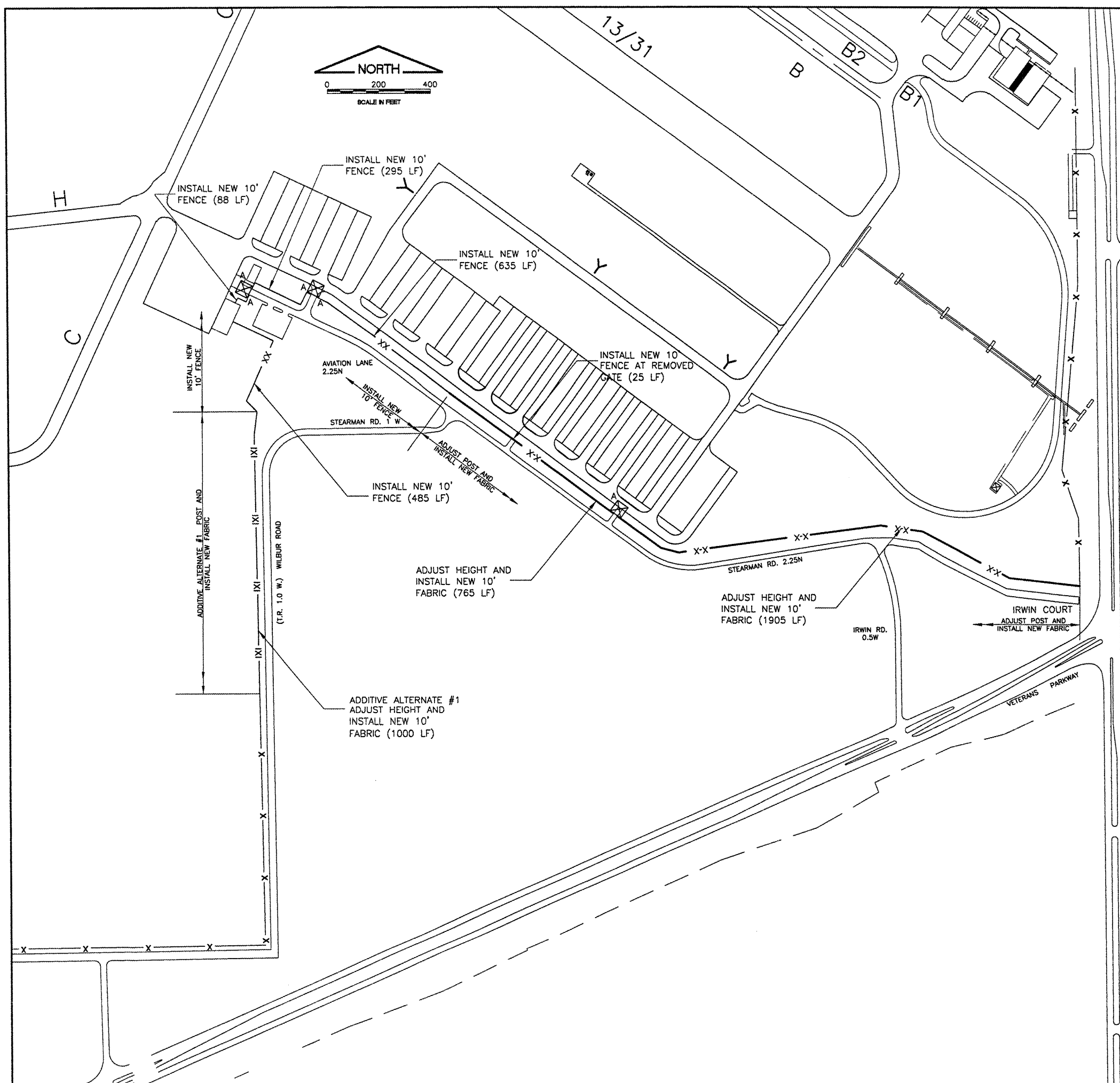
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AIP PROJ. NO.	3-17-0096-XX
SHEET	07 OF 12 SHEETS

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KEYMAP



LEGEND

— X —	EXISTING FENCE
— XX —	INSTALL NEW 10' FENCING
— X-X —	ADJUST FENCE HEIGHT
— IXI —	ADDITIVE ALTERNATE #1 - ADJUST FENCE HEIGHT
A X	ADJUST GATE HEIGHT

NOTE:
 1. 225 SQUARE YARDS OF RIPRAP AND 500 SQUARE YARDS OF EXCELSIOR BLANKET HAVE BEEN ADDED TO THE CONTRACT TO COVER MISCELLANEOUS ERODED AREAS ALONG THE FENCE LINE, INSTALL AS DIRECTED BY THE ENGINEER.



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

**UPGRADE PERIMETER FENCE PHASE 1
 PROPOSED FENCE IMPROVEMENTS**

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AIP PROJ. NO. 3-17-0096-XX	
SHEET 08 OF 12 SHEETS	

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 SPRINGFIELD, ILLINOIS

UPGRADE PERIMETER FENCE PHASE 1

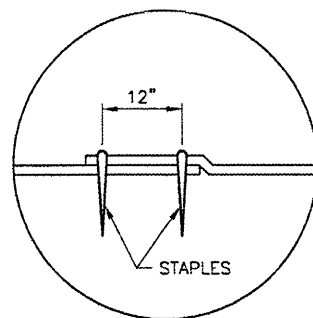
EROSION CONTROL DETAILS

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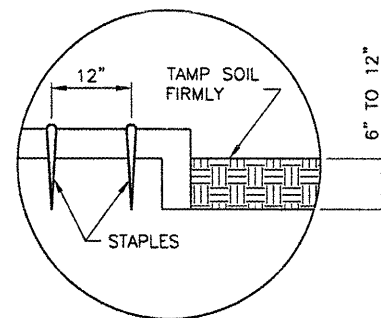
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DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	RLV
DATE:	MAY 9, 2008
JOB No:	07035-10
IL PROJ. NO.	SPI-3775
AIP PROJ. NO.	3-17-0096-XX
SHEET	09 OF 12 SHEETS



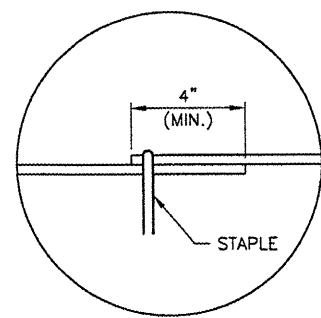
DETAIL 1 - TERMINAL FOLD



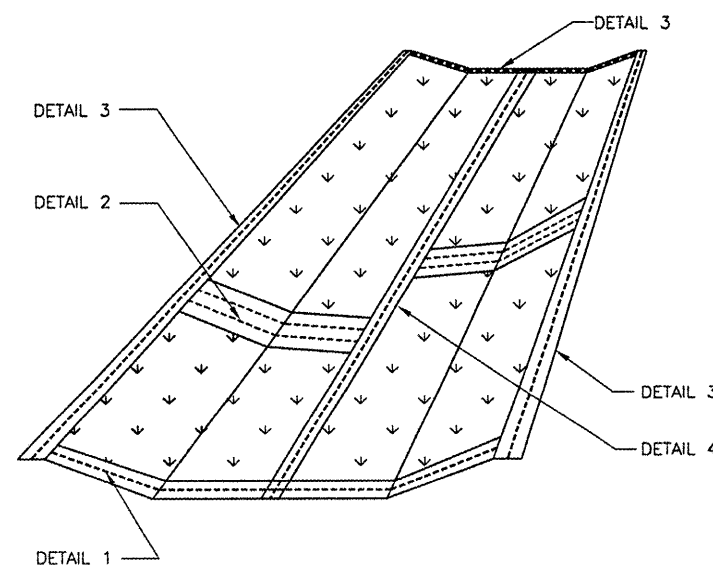
DETAIL 2 - JUNCTION SLOT



DETAIL 3 - ANCHOR SLOT

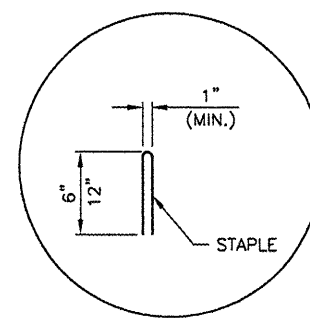


DETAIL 4 - LAP JOINT



PLAN

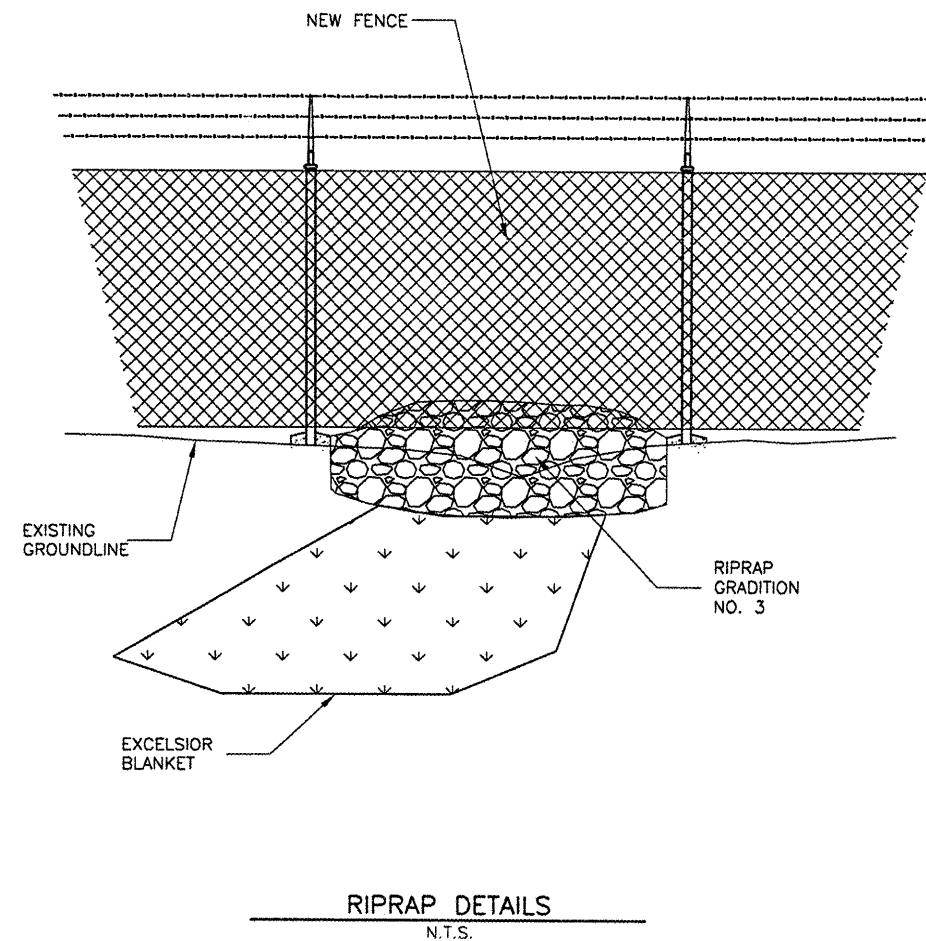
EXCELSIOR BLANKET DETAILS
 N.T.S.



DETAIL 5 - STAPLE DETAIL

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.



RIPRAP DETAILS
 N.T.S.

NOTES

1. PLACE RIPRAP IN LOW AREAS AS DIRECTED BY THE ENGINEER.
2. INSTALL EXCELSIOR BLANKET IN LOW AREAS AS DIRECTED BY ENGINEER.

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



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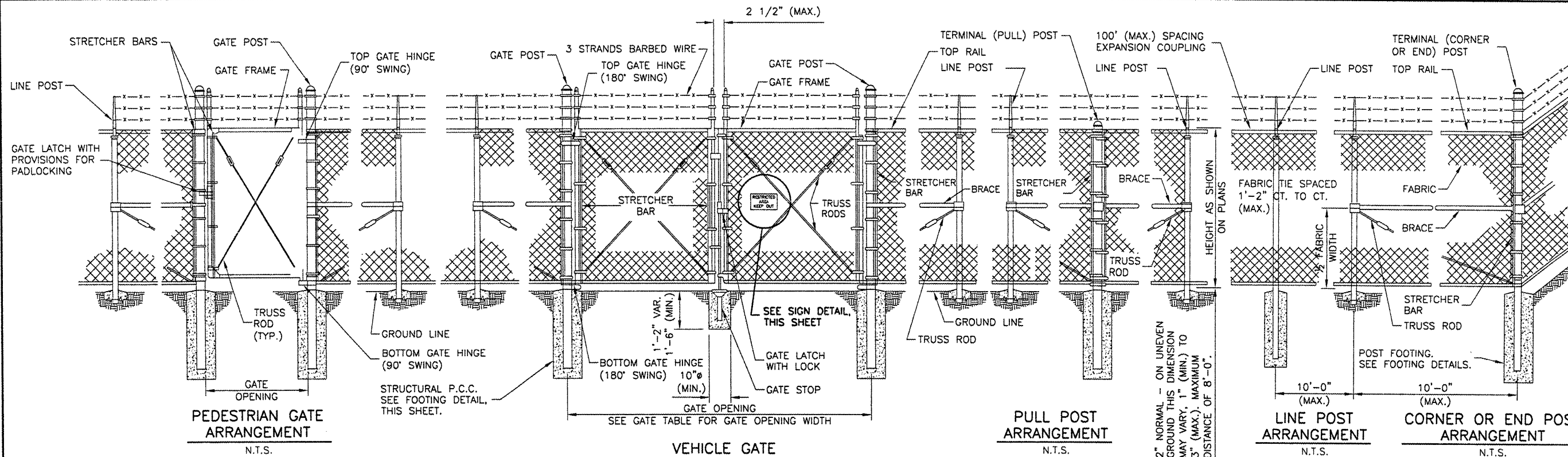
UPGRADE PERIMETER FENCE PHASE 1
 FENCE DETAILS 1

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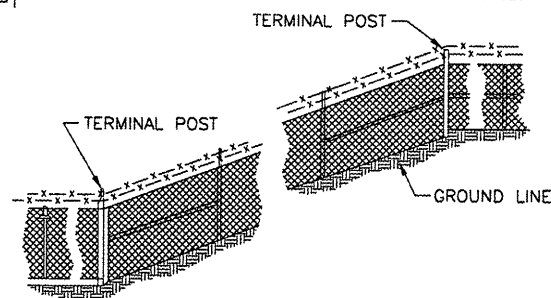
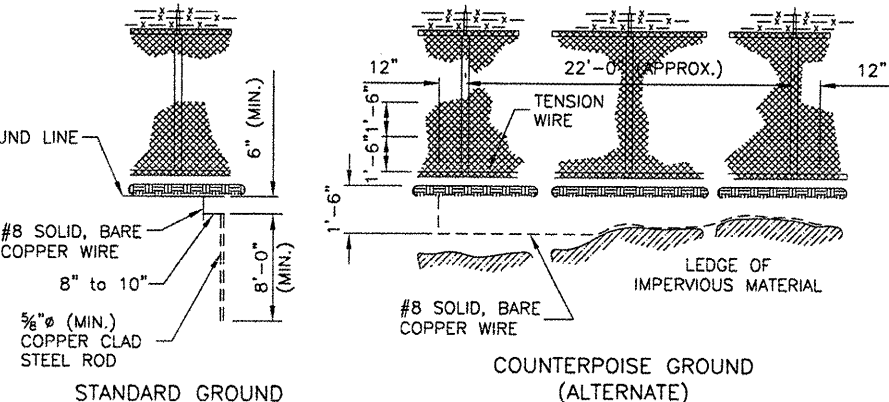
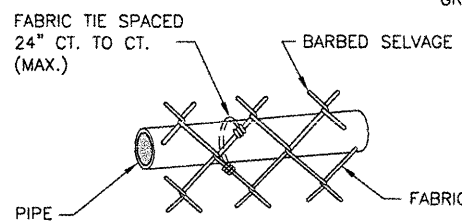
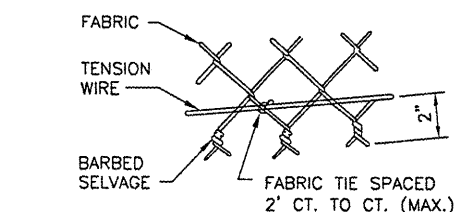
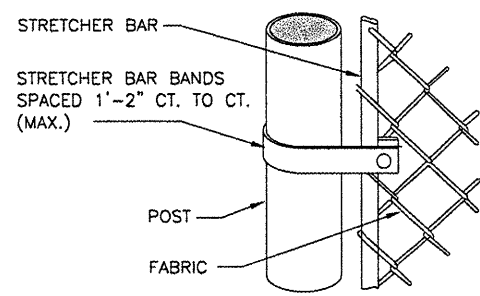
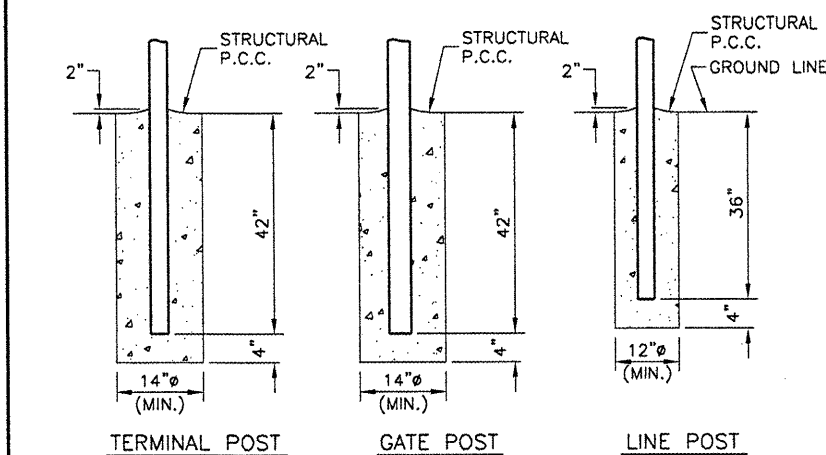


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 JOB No: 07035-10

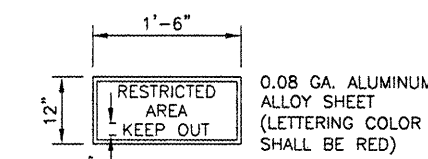
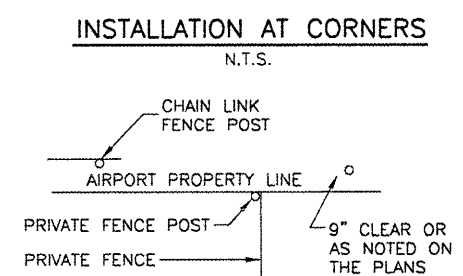
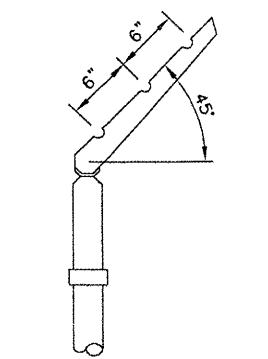
IL PROJ. NO. SPI-3775
 AIP PROJ. NO. 3-17-0096-Xx



PULL POSTS SHALL BE PLACED AT LOCATIONS DETERMINED BY THE ENGINEER. THEY SHALL BE PLACED AT 660 FT. INTERVALS BETWEEN POSTS TO WHICH THE ENDS OF THE FABRIC ARE CLAMPED OR MIDWAY BETWEEN SUCH POSTS WHEN THE DISTANCE IS LESS THAN 1320 FT. AND GREATER THAN 660 FT.



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

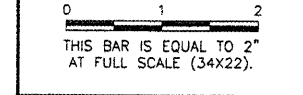


EACH GATE SHALL REQUIRE TWO SIGNS. EVERY 100' OF FENCE SHALL REQUIRE ONE SIGN. EVERY STRAIGHT SECTION OF FENCE SHALL REQUIRE MINIMUM ONE SIGN.

- NOTES**
1. CONTINUOUS FENCE SHALL BE GROUNDED AT INTERVALS NOT EXCEEDING 1000 FT. EXCEPT THERE SHALL BE A GROUND NOT EXCEEDING 100 FT. FROM GATE IN EACH SECTION OF THE FENCE ADJACENT TO THE GATE.
 2. FENCE UNDER POWER LINES SHALL BE GROUNDED BY 3 GROUNDS, ONE DIRECTLY UNDER THE CROSSING AND ONE ON EACH SIDE 25 TO 50 FT. AWAY. A SINGLE GROUND SHALL BE LOCATED DIRECTLY UNDER EACH TELEPHONE WIRE OR CABLE CROSSINGS.
 3. THE COUNTERPOISE SHALL BE USED ONLY WHERE IT IS IMPOSSIBLE TO DRIVE A GROUND ROD BECAUSE OF IMPERVIOUS EARTH STRUCTURES.
 4. THE GROUND WIRE SHALL BE CONNECTED TO THE FABRIC AND THE GROUND ROD BY A MECHANICAL CLAMP OF CAST BRONZE BODY AND BRONZE OR STAINLESS STEEL BOLTS AND WASHERS. WHEN A TENSION WIRE IS REQUIRED, THE BOTTOM CONNECTION OF THE GROUND WIRE SHALL BE MADE TO THE TENSION WIRE.
 5. ALL PROPOSED CLASS E FENCE SHALL MEET THE REQUIREMENTS OF IDOT STANDARD 664001-01.

CA005

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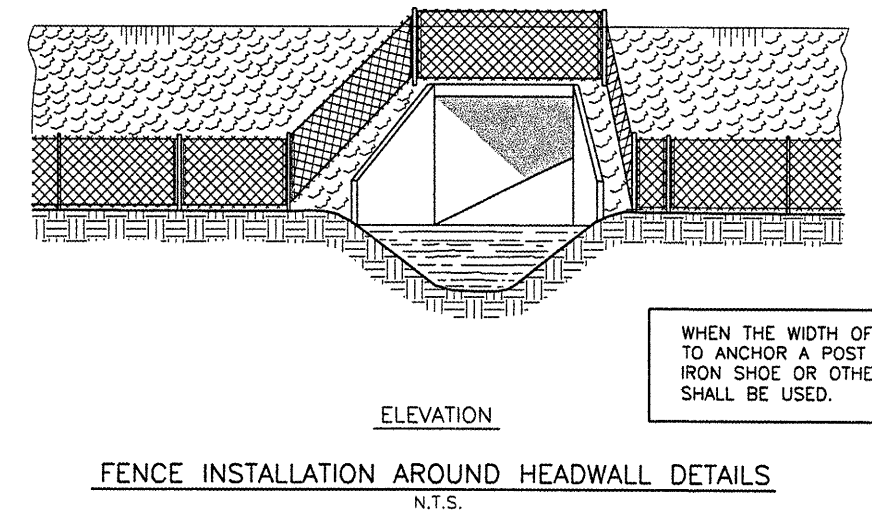
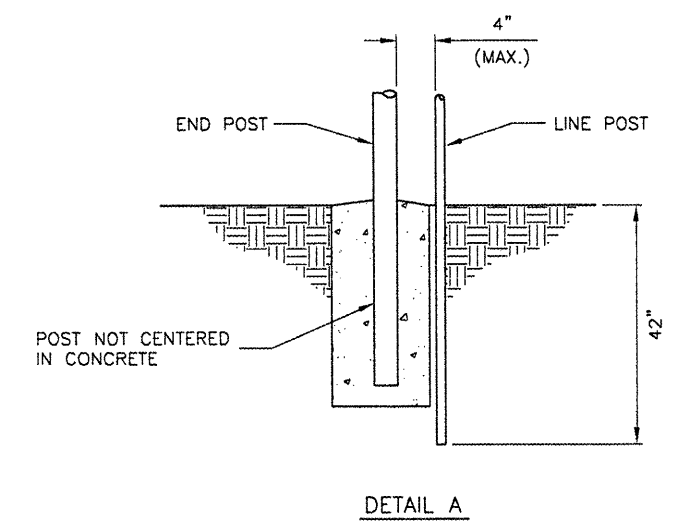
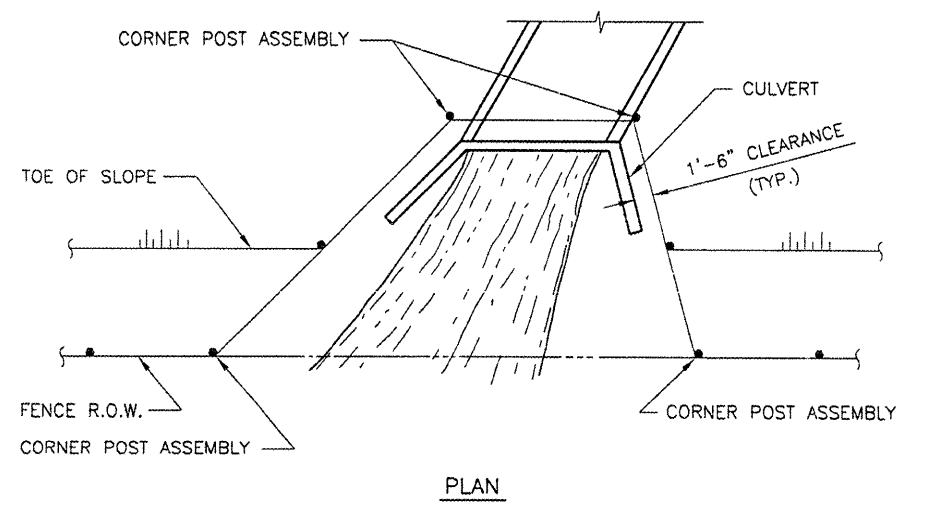
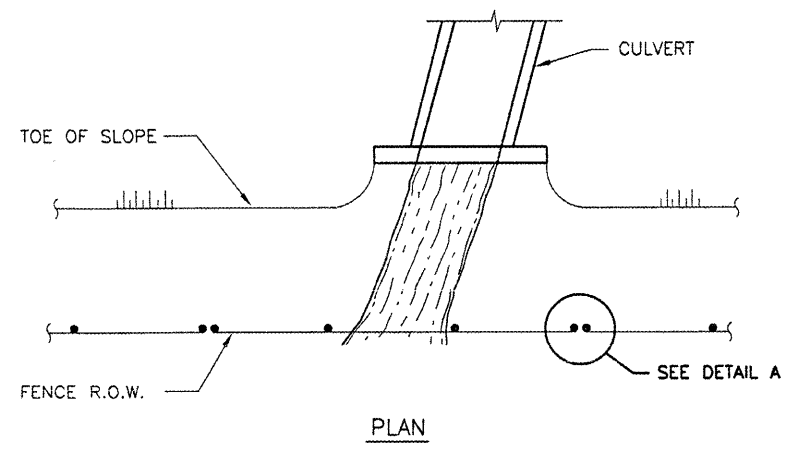


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**UPGRADE PERIMETER FENCE PHASE 1
 FENCE DETAILS 2**

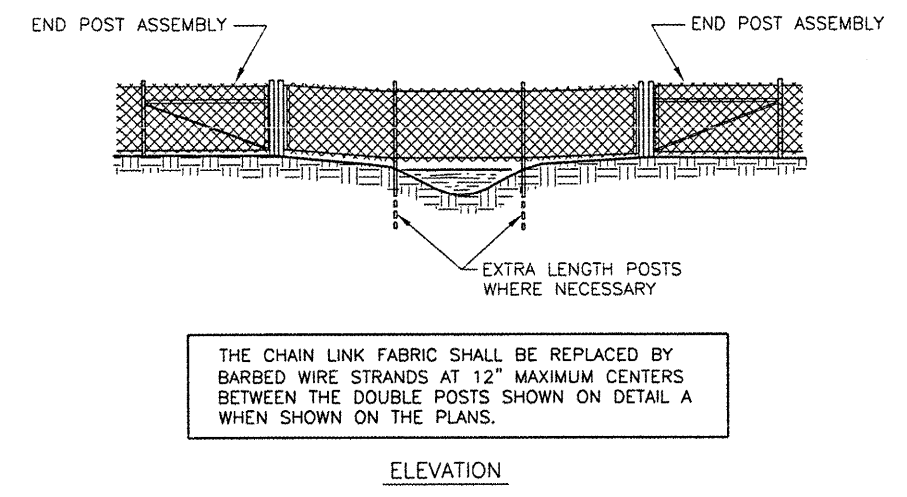
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APPROVED BY:	<i>RLW</i>
DATE:	MAY 9, 2008
JOB No:	07035-10
IL PROJ. NO.	SPI-3775
AIP PROJ. NO.	3-17-0096-XX
SHEET 11 OF 12 SHEETS	



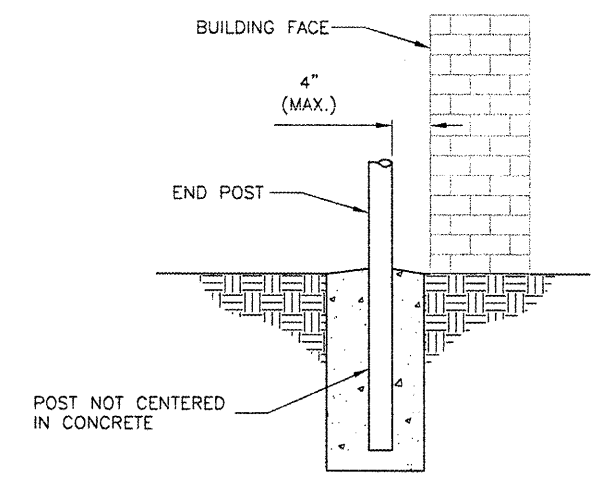
WHEN THE WIDTH OF THE CULVERT MAKES IT NECESSARY TO ANCHOR A POST TO THE TOP OF THE CULVERT, A CAST IRON SHOE OR OTHER DEVICE APPROVED BY THE ENGINEER SHALL BE USED.

FENCE INSTALLATION AROUND HEADWALL DETAILS
 N.T.S.



THE CHAIN LINK FABRIC SHALL BE REPLACED BY BARBED WIRE STRANDS AT 12" MAXIMUM CENTERS BETWEEN THE DOUBLE POSTS SHOWN ON DETAIL A WHEN SHOWN ON THE PLANS.

FENCE INSTALLATION OVER STREAM DETAILS
 N.T.S.



FENCE INSTALLATION AT BUILDING FACE
 N.T.S.


CA005

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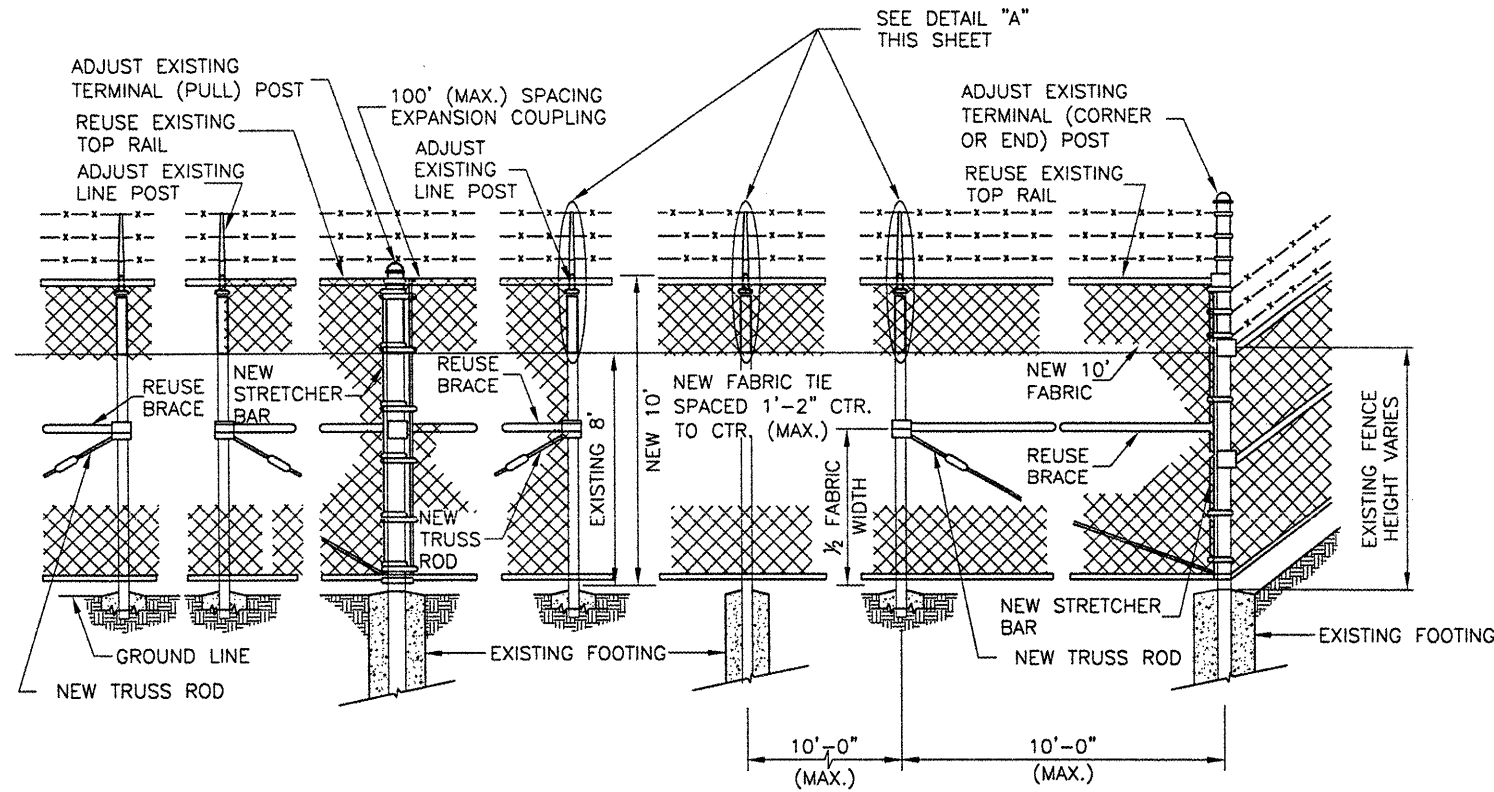
0 1 2
 THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).


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UPGRADE PERIMETER FENCE PHASE 1
 FENCE DETAILS SHEET 3

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SHEET 12 OF 12 SHEETS	

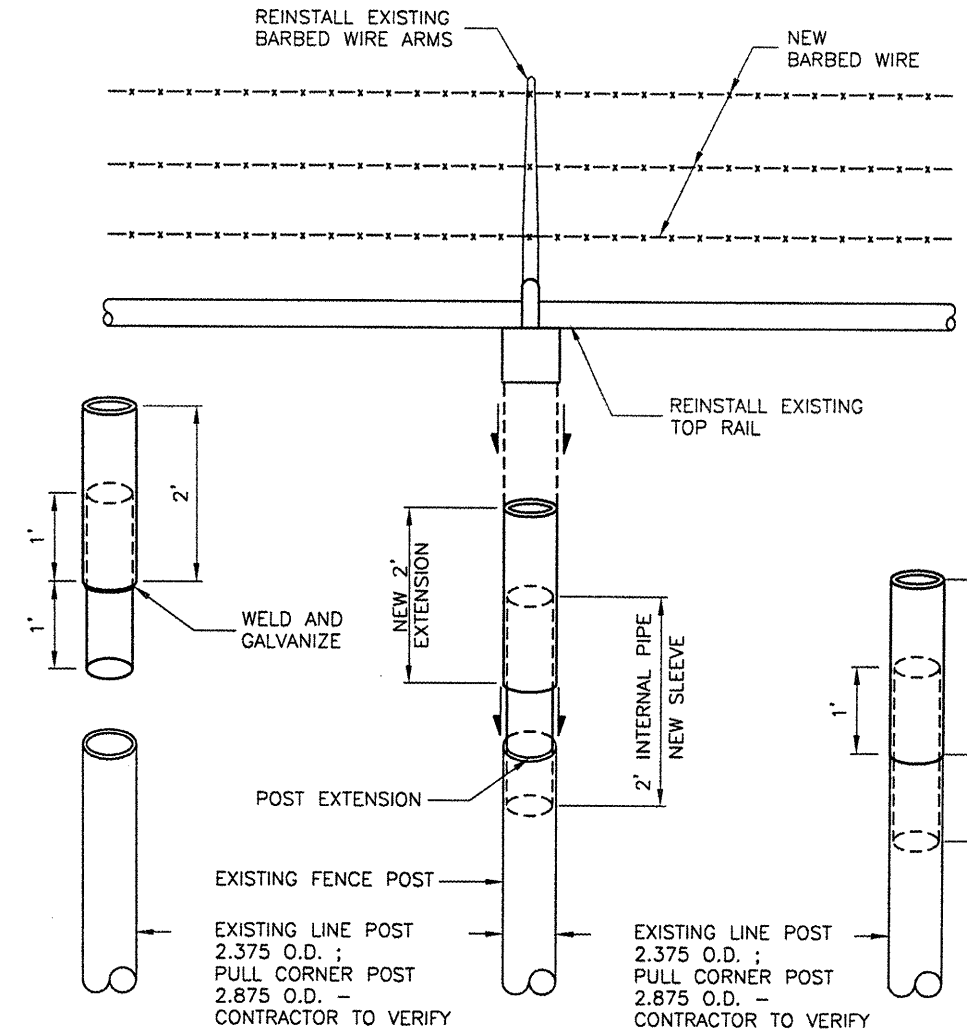


PULL POST ARRANGEMENT
 N.T.S.

LINE POST ARRANGEMENT
 N.T.S.

CORNER OR END POST ARRANGEMENT
 N.T.S.

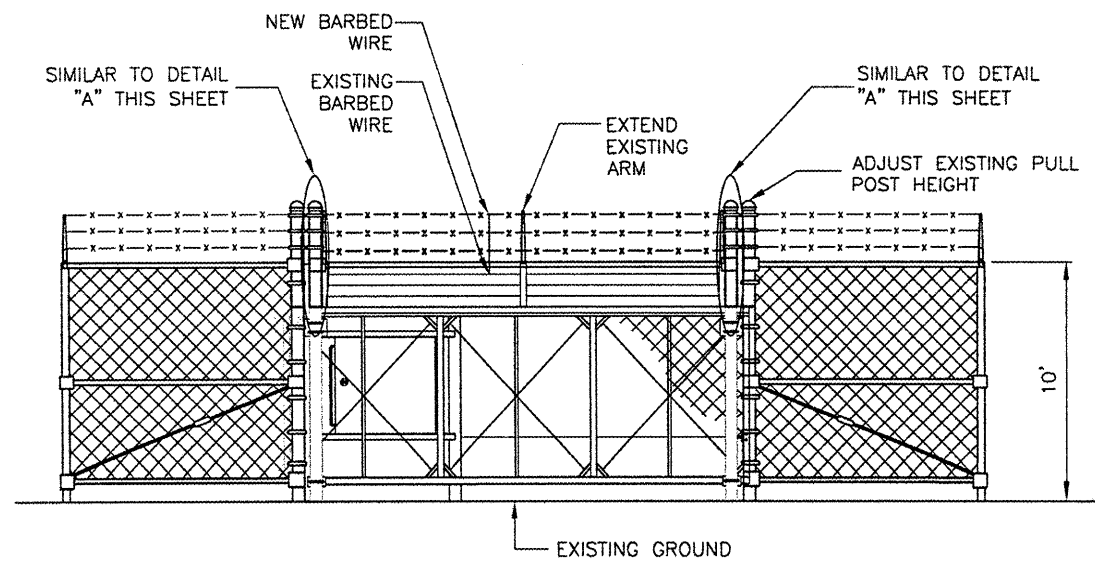
ADJUST FENCE HEIGHT
 N.T.S.



DETAIL "A" ADJUST EXISTING LINE POST
 N.T.S.

NOTES:

- CONTRACTOR SHALL VERIFY DIMENSIONS OF EXISTING POST PRIOR TO MANUFACTURE OF POST EXTENSIONS.
- SLEEVE SHALL BE WELDED TO EXTENSION AND RE-GALVANIZED.
- SLEEVE SHALL BE SIZED SUCH THAT THERE WILL BE NO EXCESSIVE MOVEMENT BETWEEN THE POST EXTENSION AND EXISTING POST.
- RE-USE EXISTING BARBED WIRE ARMS AND INSTALL ONTO POST EXTENSION.
- CONTRACTOR MAY HAVE THE OPTION TO ACCOMPLISH THE EXTENSION BY OTHER MEANS, PROVIDED SHOP DRAWINGS ARE SUBMITTED SHOWING DETAIL OF POST EXTENSIONS AND MEET THE ENGINEER'S APPROVAL.



EXISTING GATE HEIGHT ADJUSTMENT
 N.T.S.