

CAIRO REGIONAL AIRPORT

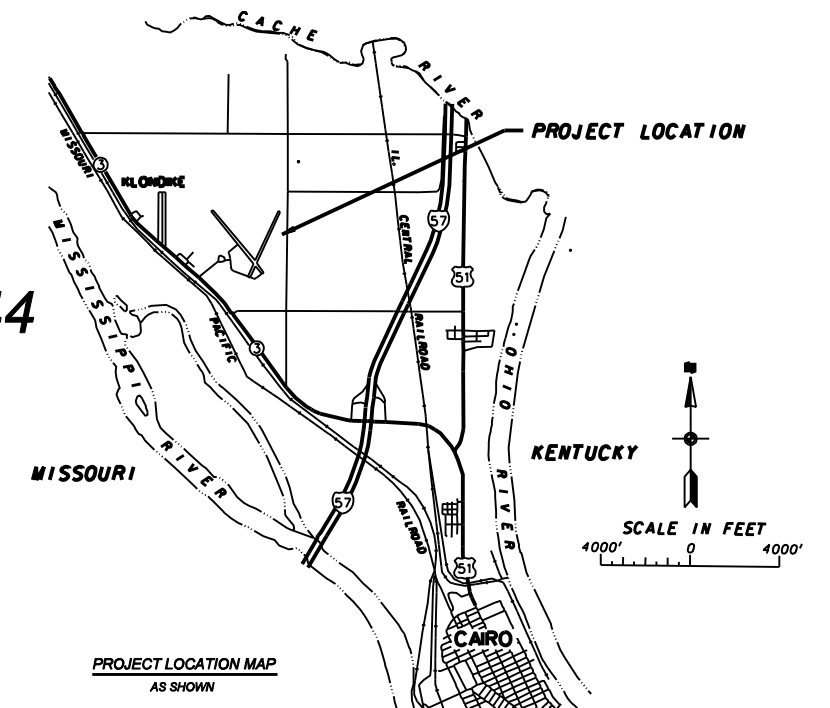
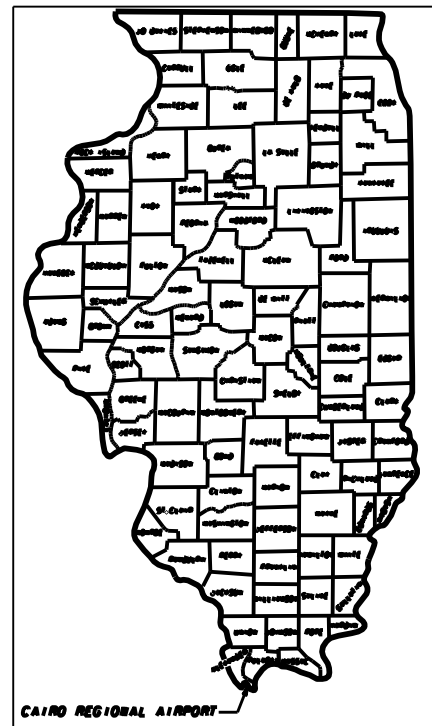
CAIRO - ALEXANDER COUNTY, ILLINOIS

AIRPORT TYPE: BASIC UTILITY

INSTALL PERIMETER FENCE - PHASE 3: EAST AND NORTH PERIMETER

ILLINOIS PROJECT NO. CIR-4444
S.B.G. PROJECT NO. 3-17-SBGP-120 / 133 / 139 / 144

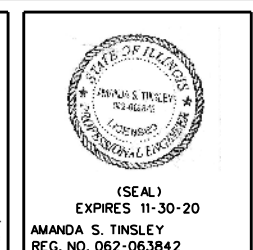
LATITUDE 37°03'52"
LONGITUDE 89°13'04"
ELEVATION 321 MSL

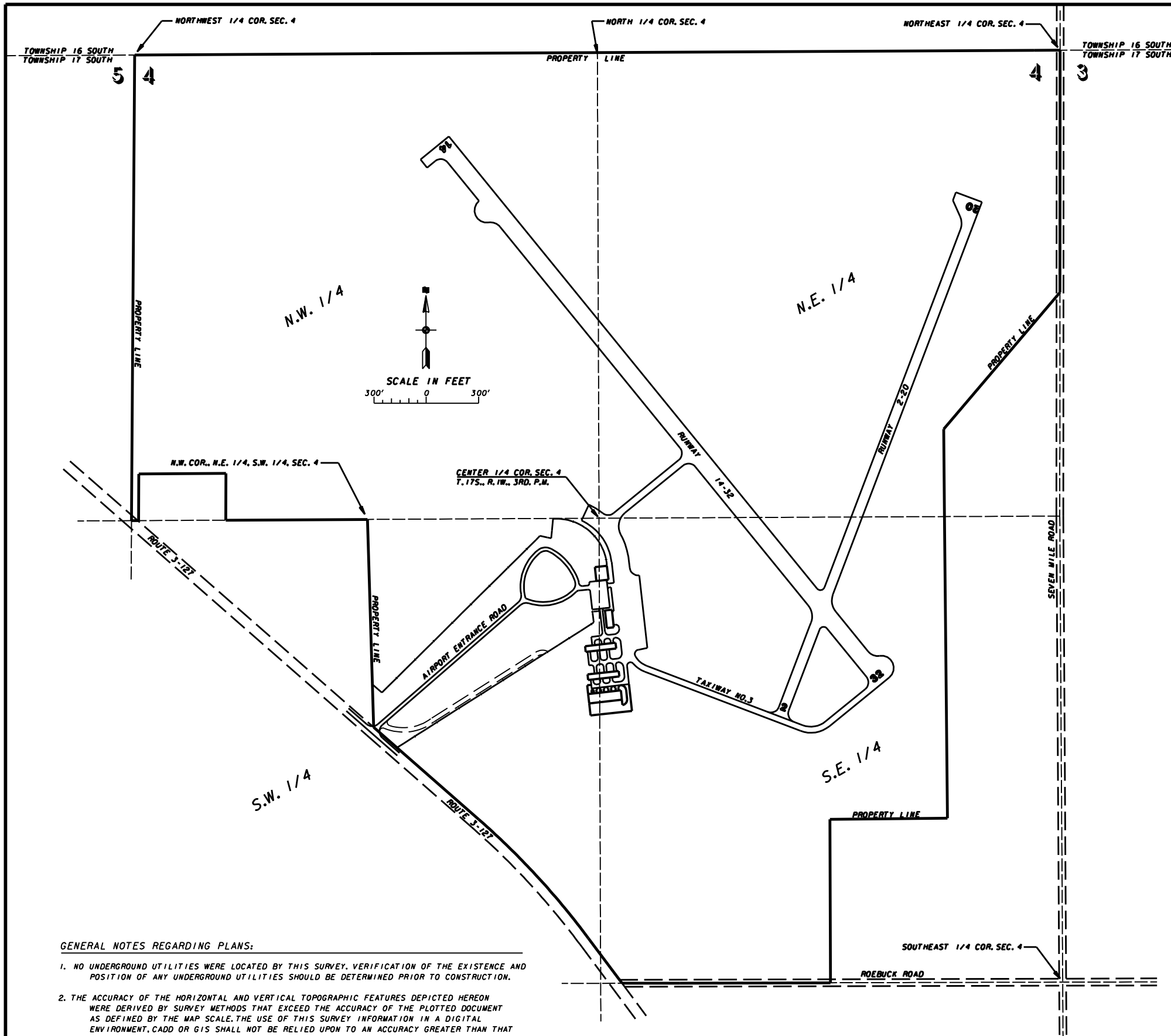


J.T.B. NO. E-10129
DATE OF PLANS: OCTOBER 1, 2019

ALEXANDER COUNTY AIRPORT AUTHORITY	
APPROVED: <i>[Signature]</i>	CHAIRMAN
DATE: 10-1-19	2019
APPROVED: <i>[Signature]</i>	SECRETARY
DATE: 10-1-19	2019

PREPARED BY J.T. BLANKINSHIP, INC.	
CONSULTING ENGINEERS MURPHYSBORO, ILLINOIS	
APPROVED: <i>[Signature]</i>	
DATE: 10/1/19	2019





SITE LOCATION MAP

GENERAL NOTES

ENGINEER'S FIELD OFFICE
AN ENGINEER'S FIELD OFFICE WILL NOT BE REQUIRED FOR THIS PROJECT

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITIES	AS BUILT QUANTITIES
AR119511	AIRPORT OBSTRUCTION LIGHT - SINGLE	EACH	3	
AR181900	REMOVE CLASS C FENCE	L.F.	3,500	
AR182504	CLASS E FENCE 4'	L.F.	105	
AR182508	CLASS E FENCE 8'	L.F.	7,500	
AR182824	CLASS E GATE - 24'	EACH	2	

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE, COVER & SIGNATURE SHEET AND PROJECT LOCATION MAP
2	INDEX OF SHEETS, SUMMARY OF QUANTITIES, GENERAL NOTES AND SITE LOCATION MAP
3	SAFETY PLAN
4	EXISTING SITE PLAN FOR WOVEN WIRE FENCE REMOVAL
5	PROPOSED FENCING PLAN AND DETAIL FOR OBSTRUCTION LIGHT ON FENCE
6	CHAIN LINK FENCE AND PIPE CULVERT DETAILS

GENERAL NOTES REGARDING PLANS:

1. NO UNDERGROUND UTILITIES WERE LOCATED BY THIS SURVEY. VERIFICATION OF THE EXISTENCE AND POSITION OF ANY UNDERGROUND UTILITIES SHOULD BE DETERMINED PRIOR TO CONSTRUCTION.
2. THE ACCURACY OF THE HORIZONTAL AND VERTICAL TOPOGRAPHIC FEATURES DEPICTED HEREON WERE DERIVED BY SURVEY METHODS THAT EXCEED THE ACCURACY OF THE PLOTTED DOCUMENT AS DEFINED BY THE MAP SCALE. THE USE OF THIS SURVEY INFORMATION IN A DIGITAL ENVIRONMENT, CADD OR GIS SHALL NOT BE RELIED UPON TO AN ACCURACY GREATER THAN THAT OF THE MAP SCALE.
3. FOR CONSTRUCTION LAYOUT PURPOSES THE POSITION OF ALL PROPOSED IMPROVEMENTS ESTABLISHED FOR THIS PROJECT SHALL BE DEVELOPED FROM INFORMATION SHOWN ON THE PLOTTED DOCUMENT AND SHALL NOT BE DERIVED FROM INFORMATION OBTAINED FROM A DIGITAL ENVIRONMENT UNLESS OTHERWISE VERIFIED.
4. HORIZONTAL DATUM IS ILLINOIS STATE PLAN WEST ZONE (NAD83)
5. VERTICAL DATUM IS CAIRO AIRPORT DATUM - (INGVD29)

CAIRO REGIONAL AIRPORT ALEXANDER COUNTY, ILLINOIS		
ILLINOIS PROJECT NO. CIR-4444		
INSTALL PERIMETER FENCE - PHASE 3 EAST AND NORTH PERIMETER		
INDEX OF SHEETS, SUMMARY OF QUANTITIES, GENERAL NOTES AND SITE LOCATION MAP		
SCALE AS SHOWN	J. T. BLANKINSHIP, INC. CONSULTING ENGINEERS & LAND SURVEYORS ILLINOIS PROFESSIONAL DESIGN FIRM NO. 1394 401 S. 17TH STREET MURPHYSBORO, ILLINOIS 62966 PHONE 618-687-1771	FILE NO. E-10129
DATE OCT. 2019		DESIGN FILE E1012982-02.DGN
DRAWN BY SDR		SHEET NO. 2 OF 6

ALL PROVISIONS OF THE LATEST EDITION OF FAA ADVISORY CIRCULAR 150/5370-2, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION" APPLY TO THIS CONTRACT, EXCEPT AS MODIFIED BY THIS SAFETY PLAN, OR AS MODIFIED BY THE CAIRO REGIONAL AIRPORT AT THE PRECONSTRUCTION CONFERENCE OR DURING THE COURSE OF THE CONTRACT.

GENERAL - THE CAIRO REGIONAL AIRPORT IS COMPRISED OF 2 PAVED RUNWAYS AND THE ASSOCIATED TAXIWAY SYSTEM.

THE PROPOSED PROJECT WILL NOT REQUIRE THE CLOSING OF ANY AIRFIELD OPERATIONS FOR THE DURATION OF THE WORK. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT TO THE RESIDENT ENGINEER, FOR APPROVAL BY THE AIRPORT MANAGER, A SCHEDULE OF CONSTRUCTION ACTIVITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO NOTIFY THE AIRPORT MANAGER THROUGH THE RESIDENT ENGINEER, A MINIMUM OF 7 DAYS PRIOR TO THE START OF CONSTRUCTION.

PARKING AREA (EXISTING)

THE CONTRACTOR WILL USE THE DESIGNATED PARKING AREA AS SHOWN ON THIS SHEET AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE EXISTING PARKING AREA THROUGHOUT THE COURSE OF THE PROJECT. ANY AREAS DAMAGED OUTSIDE OF THESE AREAS WILL BE REPAIRED BY THE CONTRACTOR AND AT THE CONTRACTOR'S OWN EXPENSE. AT THE CONCLUSION OF THE PROJECT THE CONTRACTOR WILL REMOVE THE PARKING AREA MATERIAL AND RESTORE THESE AREAS TO THEIR ORIGINAL STATE. CONSTRUCTION, MAINTENANCE, AND ANY REQUIRED RESTORATION OF THE PARKING AREA, INCLUDING LABOR, MATERIALS, EQUIPMENT, AND OTHER INCIDENTAL ITEMS WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

HEIGHT OF CONSTRUCTION EQUIPMENT

THE MAXIMUM HEIGHT OF THE FENCE WILL BE 10 FEET.

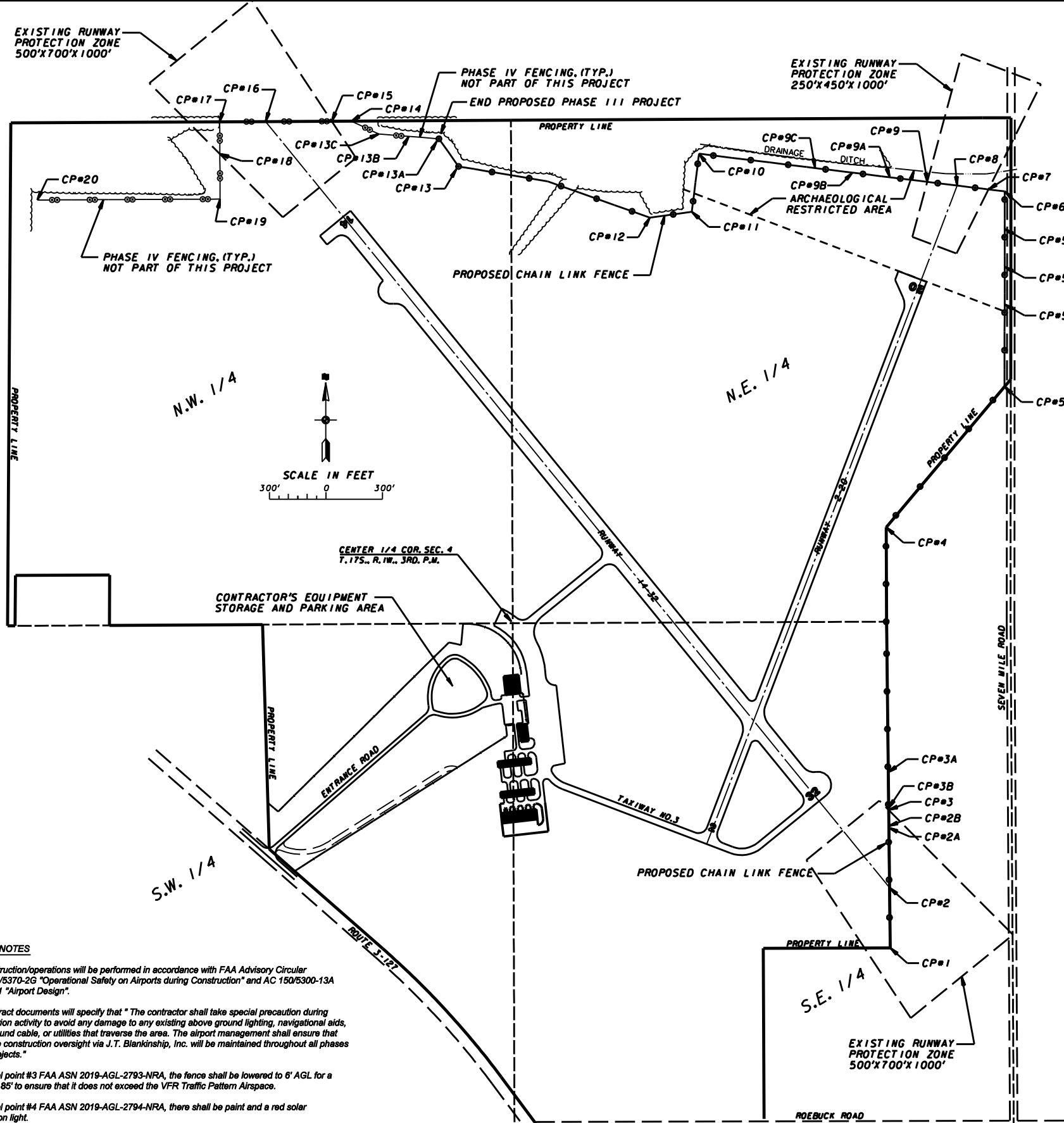
CONTRACTOR RESPONSIBILITIES

IDENTIFICATION - THE CONTRACTOR WILL PROVIDE WORKERS WITH SOME TYPE OF TAG OR GARMENT TO IDENTIFY THE PERSON AS BEING PART OF THE CONSTRUCTION CREW.

THE LOCATION OF THE CONTRACTOR'S EQUIPMENT PARKING AND STORAGE AREA IS SHOWN ON THIS SHEET. THE CONTRACTOR'S EMPLOYEES WILL PARK THEIR VEHICLES IN THIS AREA. ONLY CONTRACTOR VEHICLES WILL BE ALLOWED OUTSIDE THIS AREA.

THE CONTRACTOR AND HIS EMPLOYEES WILL BE RESTRICTED TO THE WORK AREA AND ALL OTHER AREAS OF THE AIRPORT ARE "OFF LIMITS" TO THEM.

ALL WORK PERFORMED SHALL BE DONE IN AN ORDERLY AND EFFECTIVE MANNER.

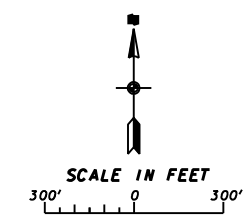
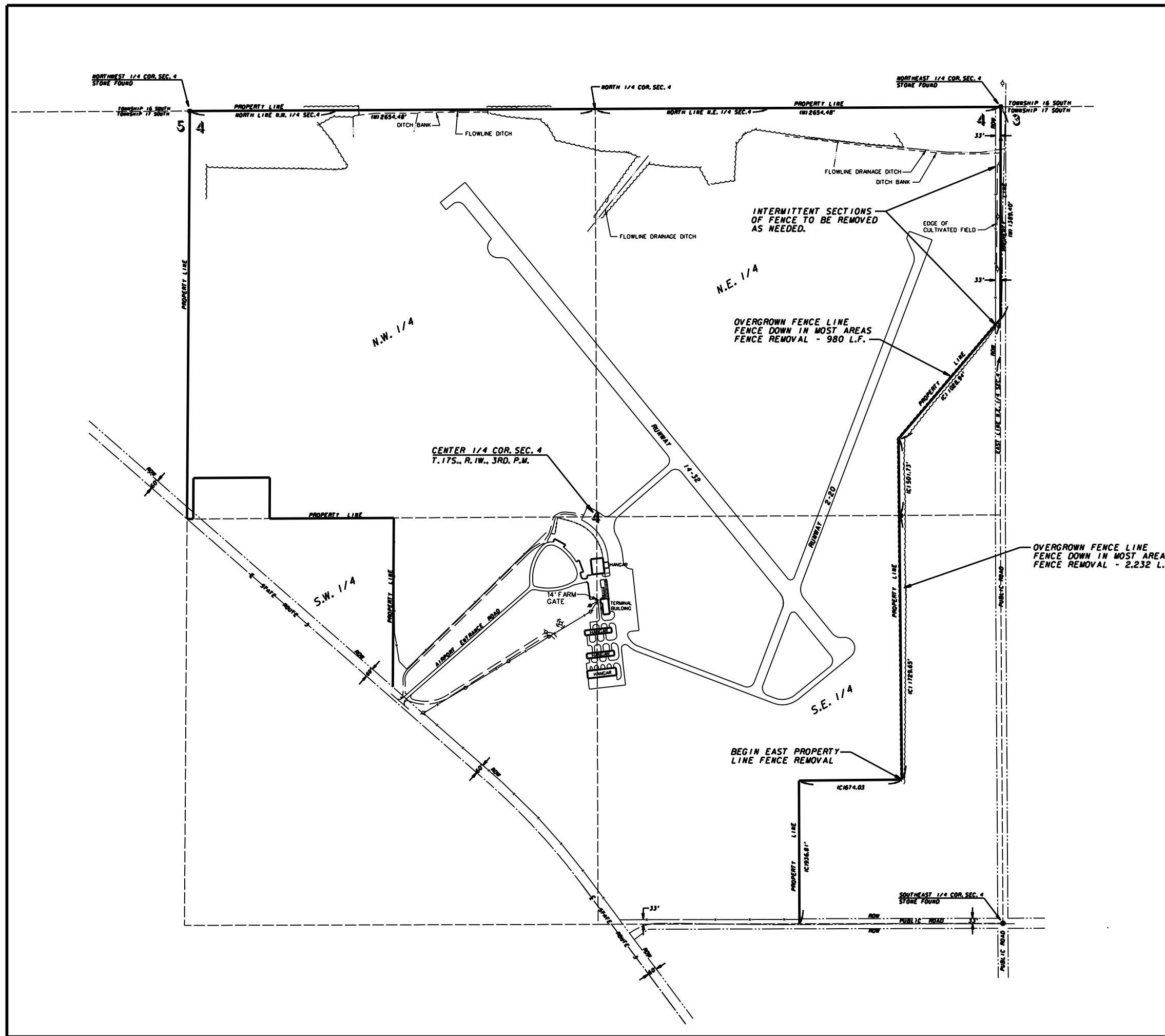


CRITICAL POINT INFORMATION					
CP	DESCRIPTION	(NAD83)		(ELEVATION - MSL NGVD29)	
		LATITUDE	LONGITUDE	GROUND	FENCE HEIGHT
#1	FENCING INSTALLATION EQUIPMENT	37°03'29.0220"	89°12'57.1282"	314.0	324.0
#2	FENCING INSTALLATION EQUIPMENT	37°03'32.1773"	89°12'57.1335"	315.5	325.5
#2A	FENCING INSTALLATION EQUIPMENT	37°03'35.3187"	89°12'57.1387"	316.0	322.0
#2B	FENCING INSTALLATION EQUIPMENT	37°03'35.4176"	89°12'57.1389"	316.0	322.0
#3	FENCING INSTALLATION EQUIPMENT	37°03'36.2580"	89°12'57.1403"	316.0	322.0
#3B	FENCING INSTALLATION EQUIPMENT	37°03'36.3568"	89°12'57.1405"	316.0	322.0
#3A	FENCING INSTALLATION EQUIPMENT	37°03'38.2354"	89°12'57.1438"	316.5	326.5
#5	FENCING INSTALLATION EQUIPMENT	37°03'58.4037"	89°12'49.2755"	316.0	326.0
#5A	FENCING INSTALLATION EQUIPMENT	37°04'02.7242"	89°12'49.2182"	319.0	329.0
#5B	FENCING INSTALLATION EQUIPMENT	37°04'04.7014"	89°12'49.1919"	318.0	328.0
#5C	FENCING INSTALLATION EQUIPMENT	37°04'06.6787"	89°12'49.1657"	310.0	320.0
#6	FENCING INSTALLATION EQUIPMENT	37°04'08.6580"	89°12'49.1395"	307.5	317.5
#7	FENCING INSTALLATION EQUIPMENT	37°04'08.7693"	89°12'50.1996"	308.0	318.0
#8	FENCING INSTALLATION EQUIPMENT	37°04'08.9886"	89°12'52.2505"	308.0	318.0
#9	FENCING INSTALLATION EQUIPMENT	37°04'09.1973"	89°12'54.2031"	308.0	318.0
#9A	FENCING INSTALLATION EQUIPMENT	37°04'09.4587"	89°12'56.6491"	307.5	317.5
#9B	FENCING INSTALLATION EQUIPMENT	37°04'09.7201"	89°12'59.0951"	308.0	318.0
#9C	FENCING INSTALLATION EQUIPMENT	37°04'09.9815"	89°13'01.5411"	308.0	318.0
#10	FENCING INSTALLATION EQUIPMENT	37°04'10.7930"	89°13'09.1355"	310.0	320.0
#11	FENCING INSTALLATION EQUIPMENT	37°04'07.7549"	89°13'09.6410"	313.0	323.0
#12	FENCING INSTALLATION EQUIPMENT	37°04'07.4682"	89°13'12.3939"	314.0	324.0
#13	FENCING INSTALLATION EQUIPMENT	37°04'10.2530"	89°13'24.8873"	310.0	320.0
#13A	FENCING INSTALLATION EQUIPMENT	37°04'11.7125"	89°13'26.1582"	310.0	320.0
#13B	FENCING INSTALLATION EQUIPMENT	37°04'11.8542"	89°13'28.1238"	309.5	319.5
#13C	FENCING INSTALLATION EQUIPMENT	37°04'11.9964"	89°13'30.0906"	309.0	309.0
#14	FENCING INSTALLATION EQUIPMENT	37°04'12.6869"	89°13'31.8668"	311.0	321.0
#15	FENCING INSTALLATION EQUIPMENT	37°04'12.6917"	89°13'33.1625"	311.0	321.0
#16	FENCING INSTALLATION EQUIPMENT	37°04'12.7077"	89°13'37.4906"	311.0	321.0
#17	FENCING INSTALLATION EQUIPMENT	37°04'12.7188"	89°13'40.5036"	311.0	321.0
#18	FENCING INSTALLATION EQUIPMENT	37°04'11.0320"	89°13'40.5135"	312.0	322.0
#19	FENCING INSTALLATION EQUIPMENT	37°04'08.6635"	89°13'40.5276"	312.0	322.0
#20	FENCING INSTALLATION EQUIPMENT	37°04'08.7089"	89°13'52.4955"	312.0	322.0

GENERAL NOTES

- All construction/operations will be performed in accordance with FAA Advisory Circular (AC) 150/5370-2G "Operational Safety on Airports during Construction" and AC 150/5300-13A Change 1 "Airport Design".
- The contract documents will specify that "The contractor shall take special precaution during construction activity to avoid any damage to any existing above ground lighting, navigational aids, underground cable, or utilities that traverse the area. The airport management shall ensure that adequate construction oversight via J.T. Blankinship, Inc. will be maintained throughout all phases of the projects."
- At critical point #3 FAA ASN 2019-AGL-2793-NRA, the fence shall be lowered to 6' AGL for a length of 85' to ensure that it does not exceed the VFR Traffic Pattern Airspace.
- At critical point #4 FAA ASN 2019-AGL-2794-NRA, there shall be paint and a red solar obstruction light.
- At critical point #15 FAA ASN 2019-AGL-2805-NRA, there shall be paint and a red solar obstruction light.
- For critical point #16 FAA ASN 2019-AGL-2806-NRA, and critical point #17 FAA ASN 2019-AGL-2807-NRA this fence location is on the existing property line. For plan-on-file RWY 14/32 and the plan-on-file Primary Surface additional land must be purchased and at that time the fence can be relocated to the additional land property line.
- Prior to beginning construction, FDC NOTAM action shall be completed by the airport manager for critical point 5A FAA ASN 2019-AGL-3908-NRA and for critical point 5B FAA ASN 2019-AGL-3909-NRA. An IFP amendment will also be filed for critical point 5B FAA ASN 2019-AGL-3909-NRA.

CAIRO REGIONAL AIRPORT ALEXANDER COUNTY, ILLINOIS		
ILLINOIS PROJECT NO. CIR-4444		
INSTALL PERIMETER FENCE - PHASE 3 EAST AND NORTH PERIMETER		
SAFETY PLAN		
SCALE AS SHOWN	J. T. BLANKINSHIP, INC. CONSULTING ENGINEERS & LAND SURVEYORS ILLINOIS PROFESSIONAL DESIGN FIRM NO. 1394 401 S. 17TH STREET MURPHYSBORO, ILLINOIS 62966 PHONE 618-687-1771	FILE NO. E-10129
DATE OCT. 2019		DESIGN FILE E1012982-03.DWG
DRAWN BY SDR		SHEET NO. 3 OF 6



- LEGEND**
- - POWER POLE
 - - RIGHT-OF-WAY
 - - - - - LAND LINE
 - ~~~~~ - EDGE OF WOODS
 - x-x- - EXISTING FENCE LINE

WOVEN WIRE FENCE REMOVAL
ESTIMATED 3,500 L.F. (TOTAL)

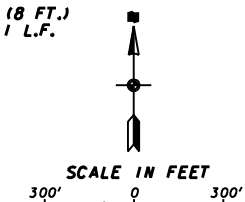
CAIRO REGIONAL AIRPORT ALEXANDER COUNTY, ILLINOIS		
ILLINOIS PROJECT NO. CIR-4444		
INSTALL PERMETER FENCE - PHASE 3 EAST AND NORTH PERMETER		
EXISTING SITE PLAN FOR WOVEN WIRE FENCE REMOVAL		
SCALE AS SHOWN	J. T. BLANKINSHIP, INC. CONSULTING ENGINEERS & LAND SURVEYORS ILLINOIS PROFESSIONAL DESIGN FIRM NO. 1394 401 S. 17TH STREET MURPHYSBORO, ILLINOIS 62966 PHONE 618-687-1771	FILE NO. E-10129
DATE OCT. 2019		DESIGN FILE E1012982-04.DGN
DRAWN BY SDR		SHEET NO. 4 OF 6

LEGEND

- - POWER POLE
- - RIGHT-OF-WAY
- - - - - LAND LINE
- ~~~~~ - EDGE OF WOODS
- - EXISTING FENCE LINE
- - PROPOSED CLASS E FENCE

INSTALL 24 FT. GATE IN THIS LOCATION THE CONTRACTOR SHALL INSTALL A 30' - 24" CMP CULVERT AND 6" OF AGGREGATE SURFACE COURSE TO ALLOW ACCESS FROM THE COUNTY ROAD. THIS SHALL BE CONSIDERED INCIDENTAL TO THE GATE AND NO ADDITIONAL COMPENSATION SHALL BE REQUIRED. THIS SHALL BE AT A LOCATION TO BE DETERMINED BY THE RESIDENT ENGINEER DURING CONSTRUCTION.

INSTALL CLASS E FENCE (8 FT.) ON 33' R.O.W. LINE - 1,011 L.F.



CLASS E FENCE (8 FT.), INSTALLATION - 7,500 L.F.
CLASS E FENCE (4 FT.), INSTALLATION - 105 L.F.

NOTES:

1. SEE SHEET 6 FOR FENCE DETAILS.
2. ALL CLASS E FENCE SHALL HAVE 2 FT. OF FILTER FABRIC AND 6 IN. OF CA-6 AGGREGATE ON EITHER SIDE OF THE FENCE. THE COST OF THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM AND NO ADDITIONAL COMPENSATION SHALL BE REQUIRED.

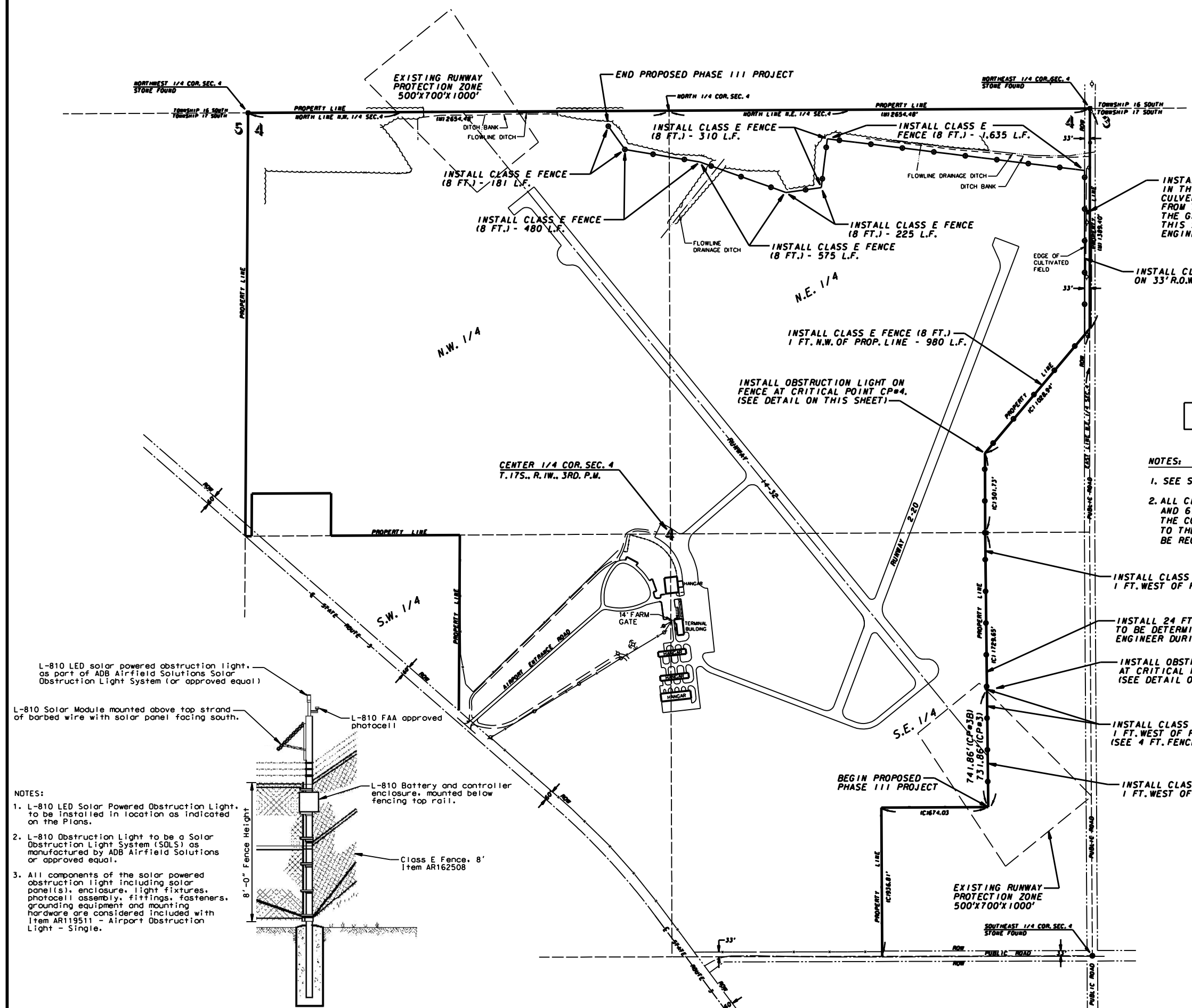
INSTALL CLASS E FENCE (8 FT.) 1 FT. WEST OF PROP. LINE - 1,466 L.F.

INSTALL 24 FT. GATE AT LOCATION TO BE DETERMINED BY THE RESIDENT ENGINEER DURING CONSTRUCTION.

INSTALL OBSTRUCTION LIGHT ON FENCE AT CRITICAL POINTS CP#3 AND CP#3B. (SEE DETAIL ON THIS SHEET)

INSTALL CLASS E FENCE (4 FT.) 1 FT. WEST OF PROP. LINE - 105 L.F. (SEE 4 FT. FENCE LAYOUT DETAIL ON SHEET 6)

INSTALL CLASS E FENCE (8 FT.) 1 FT. WEST OF PROP. LINE - 637 L.F.



L-810 LED solar powered obstruction light, as part of ADB Airfield Solutions Solar Obstruction Light System (or approved equal)

L-810 Solar Module mounted above top strand of barbed wire with solar panel facing south.

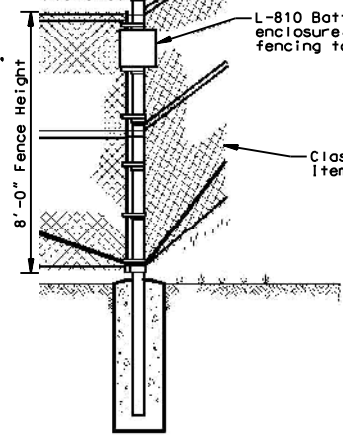
L-810 FAA approved photocell

L-810 Battery and controller enclosure, mounted below fencing top rail.

Class E Fence, 8' Item AR162508

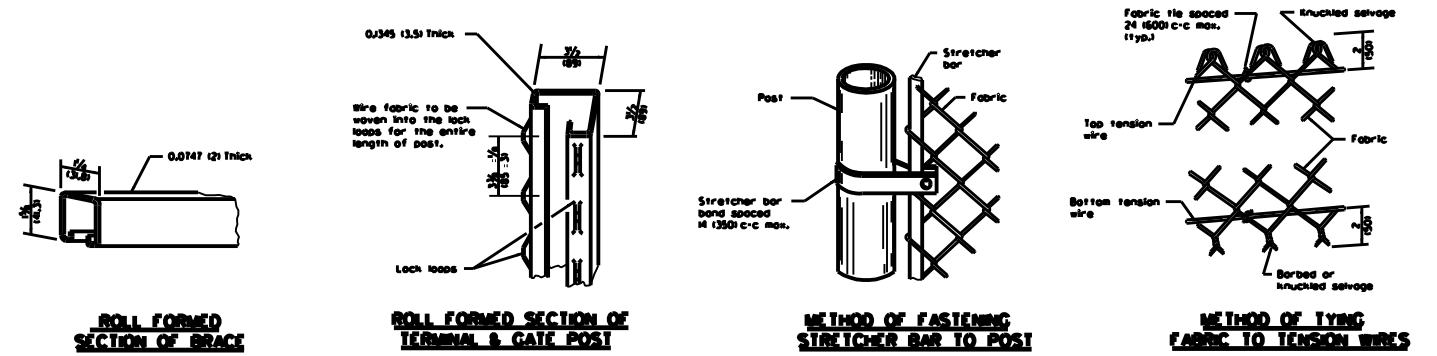
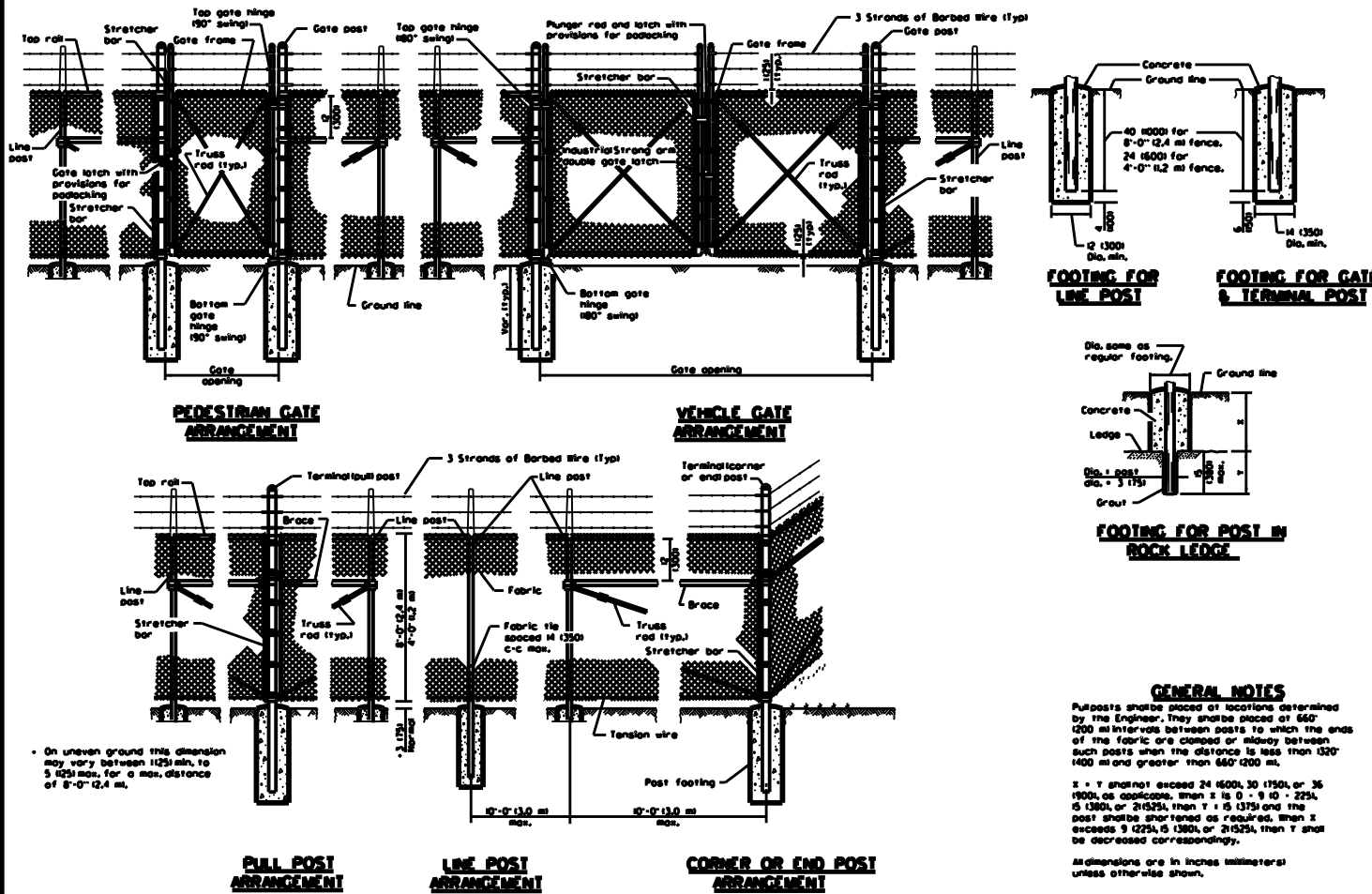
NOTES:

1. L-810 LED Solar Powered Obstruction Light, to be installed in location as indicated on the Plans.
2. L-810 Obstruction Light to be a Solar Obstruction Light System (SOLS) as manufactured by ADB Airfield Solutions or approved equal.
3. All components of the solar powered obstruction light including solar panel(s), enclosure, light fixtures, photocell assembly, fittings, fasteners, grounding equipment and mounting hardware are considered included with Item AR119511 - Airport Obstruction Light - Single.



DETAIL FOR OBSTRUCTION LIGHT ON FENCE
NOT TO SCALE

CAIRO REGIONAL AIRPORT ALEXANDER COUNTY, ILLINOIS		
ILLINOIS PROJECT NO. CIR-4444		
INSTALL PERMETER FENCE - PHASE 3 EAST AND NORTH PERMETER		
PROPOSED FENCING PLAN AND DETAIL FOR OBSTRUCTION LIGHT ON FENCE		
SCALE AS SHOWN	J. T. BLANKINSHIP, INC. CONSULTING ENGINEERS & LAND SURVEYORS ILLINOIS PROFESSIONAL DESIGN FIRM NO. 1394 401 S. 17TH STREET MURPHYSBORO, ILLINOIS 62966 PHONE 618-687-1771	FILE NO. E-10129
DATE OCT. 2019		DESIGN FILE E1012982-06.DGN
DRAWN BY SDR		SHEET NO. 5 OF 6



4" AND 6" FENCE POST AND BRACE TABLE

DESCRIPTION	O.D. (IN)	lbs./ft.
LINE POST	2.875	5.79
TERMINAL POST	4.0	9.1
END POST	4.0	9.1
CORNER POST	4.0	9.1
PULL POST	4.0	9.1
TOP RAIL	1.66	1.82

GATE POSTS

Gate Opening (FT)		O.D. (IN)	lbs./ft.
Single	Double		
Up to 6	Up to 12	2.875	5.79
Over 6 to 12	Over 12 to 24	4.0	9.1
Over 12 to 18	Over 24 to 36	6.625	13.27
Over 18 to 24	Over 36 to 48	8.625	17.26

NOTE: Only round posts shall be used.

FABRIC: Type 1, Class D (zinc-coated steel) - 9 gauge

