CO055 **TOTAL SHEETS - 21**

CONSTRUCTION PLANS

FOR

COLES COUNTY MEMORIAL AIRPORT

MATTOON-CHARLESTON, COLES COUNTY, ILLINOIS PERIMETER FENCE INSTALLATION

SCOPE OF WORK

THIS PROJECT CONSISTS OF REMOVING THE REMAINDER OF THE EXISTING CLASS C PERIMETER FENCE AND INSTALLING NEW 10 FOOT CLASS E FENCE WITH THREE STRANDS OF BARB WIRE. THE EXISTING CLASS E FRONTAL AREA FENCING WILL BE REMOVED AND REPLACED WITH 8 FOOT CLASS E FENCE WITHOUT BARB WIRE. ASSOCIATED WORK WILL INCLUDE THE REMOVAL AND REPLACEMENT OF ALL WALK GATES, DRIVE GATES, SLIDE GATES, SEEDING AND MULCHING.



COUERING ELECTRICAL DESIGN

REVISED: FEBRUARY 4, 2009







COLES COUNTY AIRPORT AUTHORITY

FEB. 9, 2009

OFEB. 9.2009

Lics. Exp. Date NOVEMBER 30, 2009

LOCATION

ILL. PROJ.: MTO-3831 A.I.P. PROJ.: 3-17-0066-B22 39° 28' 40" LATITUDE: LONGITUDE: 88° 16' 45" **ELEVATION:** 721.0' M.S.L JAN. 9, 2009



LOCATION OF COUNTY

HANSON

	SUMMARY OF QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITIES	as Built Quantities
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1	
AR161900	REMOVE CLASS C FENCE	L.F.	21,211	
AR161910	REMOVE CLASS C GATE	EACH	9	
AR162508	CLASS E FENCE 8'	L.F.	3,621	
AR162510	CLASS E FENCE 10'	L.F.	23,949	
AR162604	CLASS E GATE-4'	EACH	2	
AR162606	CLASS E GATE6'	EACH	9	
AR162624	CLASS E GATE-24'	EACH	12	
AR162720	ELECTRIC GATE-20'	EACH	1	
AR162724	ELECTRIC GATE-24'	EACH	1	
AR162900	REMOVE CLASS E FENCE	L.F.	5,169	
AR162908	REMOVE ELECTRIC GATE	EACH	2	
AR162910	REMOVE CLASS E GATE	EACH	15	
AR610510	STRUCTURAL PC CONCRETE	C.Y.	6	
AR910200	ROADWAY SIGN	EACH	4	

INDEX TO SHEETS SHEET NO. DESCRIPTION COVER SHEET COLES COUNTY AIRPORT

AUTHORITY

COLES COUNTY AIRPORT

COLES COUNTY AIRPORT SUMMARY OF QUANTITIES AND INDEX TO SHEETS 3 PROPOSED SAFETY PLAN 4 EXISTING FENCE REMOVAL F
5 EXISTING TERMINAL AREA FE
6 PROPOSED FENCING PLAN EXISTING FENCE REMOVAL PLAN EXISTING TERMINAL AREA FENCE REMOVAL PLAN PROPOSED TERMINAL AREA FENCING PLAN EXISTING AND PROPOSED FENCE DETAILS "A", "B" & "C" 9 PROPOSED FENCE DETAILS AND NOTES 10 PROPOSED FENCING BY HANGAR "G" PROPOSED NORTH GATE PAVEMENT IMPROVEMENTS PROPOSED FENCING BY HANGARS "B" AND "C" 13 ELECTRICAL LEGEND AND ABBREVIATIONS PROPOSED NORTH GATE ELECTRICAL PLAN 15 NORTH GATE ELECTRICAL ONE LINE DIAGRAMS 16 PROPOSED WEST GATE ELECTRICAL PLAN 17 WEST GATE ELECTRICAL ONE LINE DIAGRAMS 18 PROPOSED ELECTRIC SLIDE GATE DETAILS 19 CARD READER, BOLLARD, & GATE OPERATOR DETAILS 20 PROPOSED FENCING DETAILS 21 PROPOSED FENCING DETAILS

CO055

N HE WASH Professional (pringfield, linois

PERIMETER FENCE INSTALLATION SUMMARY OF QUANTITIES AND INDEX TO SHEETS

2

FEB. 08, 2009 10:43 AM HAGLO00382

SCOPE OF WORK

THIS PROJECT CONSISTS OF REMOVING THE REMAINDER OF THE EXISTING CLASS C PERIMETER FENCE AND INSTALLING NEW 10 FOOT CLASS E FENCE WITH THREE STRANDS OF BARB WIRE THE EXISTING CLASS E FRONTAL AREA FENCING WILL BE REMOVED AND REPLACED WITH 8 FOOT CLASS E FENCE WITHOUT BARB WIRE, ASSOCIATED WORK WILL INCLUDE THE REMOVAL AND REPLACEMENT OF ALL WALK GATES, DRIVE GATES, SLIDE GATES, SEEDING

THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND AGENCIES WHICH HAVE LINES OR CONDUITS IN THE PROPOSED WORK AREA. ALL LINES AND CONDUITS SHALL BE LOCATED AND IDENTIFIED FOR DEPTH BEFORE ANY EXCAVATION BEGINS. THE CONTRACTOR WILL CALL JULIEF (1-800-892-0123) TO ACCOMPLISH THE ABOVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL UNDERGROUND NON-JULIE UTILITIES LOCATED WITHIN THE PROPOSED CONSTRUCTION LIMITS. THESE UNDERGROUND IMPROVEMENTS WILL BE LOCATED AT THE CONTRACTOR'S OWN EXPENSE PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

BARRICADES AND TRAFFIC CONES

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE AND MAINTAIN BARRICADES AND TRAFFIC CONES AS DIRECTED BY THE AIRPORT MANAGER. THE BARRICADES WILL BE EQUIPPED WITH RED FLASHING OR RED STEADY-BURN LIGHTS AND 20" SQUARE ORANGE FLAGS. THE BARRICADES, THEIR MAINTENANCE, PLACEMENT AND REMOVAL WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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 THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE LITHITY 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. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND 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 1-800-892-0123.

CONTRACTOR RESPONSIBILITIES

THE CONTRACTOR'S EQUIPMENT PARKING AND STORAGE AREA WILL BE AS 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.

THE CONTRACTOR WILL NOT BE REQUIRED TO CLOSE ANY RUNWAY OR TAXIWAY.

CERTIFIED PAYROLLS

THE RESIDENT ENGINEER CANNOT FORWARD CONSTRUCTION REPORTS TO THE ILLINOIS DIVISION OF AERONAUTICS FOR PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THE PERIOD HAVE BEEN

MATERIAL CERTIFICATION

COMPLETED WORK CANNOT BE PLACED ON A CONSTRUCTION REPORT UNTIL ALL MATERIAL CERTIFICATIONS FOR THAT PAY ITEM HAVE BEEN RECEIVED, REVIEWED AND ACCEPTED BY THE

HAUL ROUTE AND VEHICLE PARKING

THE CONTRACTOR WILL USE THE EXISITING ROADS AROUND THE AIRPORT AS HIS DESIGNATED HAUL ROUTES. IF NO ROAD EXISTS THEN THE CONTRACTOR WILL TRAVEL NEXT TO THE FENCE ON THE AIRFIELD SIDE OF THE FENCE. THE CONTRACTOR'S EMPLOYEES WILL PARK THEIR PERSONAL VEHICLES IN THE AIRPORT AUTO PARKING LOT. THE CONTRACTOR WILL BE REQUIRED TO TRANSPORT HIS EMPLOYEES TO THE AREA IN WHICH THEY WILL BE WORKING. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE PROPOSED HAUL ROUTE 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 GRADE, FERTILIZE, SEED AND MULCH THE HAUL ROUTE AS NEEDED TO RESTORE IT TO ITS' ORIGINAL STATE. RESTORATION OF THE HAUL ROUTE WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

CO055 CRITICAL POINT DATA

LATITUDE: 39° 29' 01.53258" LONGITUDE: 88° 15' 59.96753" ELEVATION: 709.0 M.S.L.

J.U.L.I.E. INFORMATION

COUNTY	COLES
CITY	MATTOON
TOWNSHIP	LAFAYETTE
SECTION NO	14, 15, 22 & 23
ADDRESS	COLES COUNTY MEMORIAL AIRPORT
	432 AIRPORT ROAD
	MATTOON, ILLINOIS 61938

PROPOSED SAFETY PLAN

GENERAL - THE COLES COUNTY MEMORIAL AIRPORT IS COMPRISED OF TWO RUNWAYS. THE PROPOSED CONSTRUCTION WILL NOT NECESSITATE CLOSING

IDENTIFICATION - WHEN THE CONTRACTORS VEHICLES AND EQUIPMENT ARE ON THE AIRPORT THEY SHALL BE PROPERLY MARKED WITH THREE (3') FOOT SQUARE CHECKERED FLAGS (INTERNATIONAL ORANGE AND WHITE). THE CONTRACTOR WILL ALSO PROVIDE WORKERS WITH SOME TYPE OF TAG OR GARMENT TO IDENTIFY THE PERSON AS BEING PART OF THE CONSTRUCTION

RADIO CONTROL - THE CONTRACTOR WILL BE REQUIRED TO BE IN TWO-WAY RADIO CONTACT (122.70 MHz.) WITH THE AIRPORT UNICOM. THIS WILL KEEP THE CONTRACTOR IN CONSTANT CONTACT WITH THE COLES COUNTY MEMORIAL AIRPORT AND ENABLE THE AIRPORT TO IMMEDIATELY CONTACT THE CONTRACTOR IN CASE OF AN AERONAUTIC EMERGENCY THAT WOULD REQUIRE ACTION BY THE CONTRACTOR AND/OR HIS PERSONNEL.

150-ENGINEER'S FIELD OFFICE NOTES

THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE FURNISHED, MAINTAINED. AND REMOVED IN ACCORDANCE WITH ITEM AR150510 "ENGINEER'S FIELD OFFICE" AS STATED ON PAGE 168 OF THE SUPPLEMENTAL SPECIFICATIONS. AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THE LOCATION OF THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE DETERMINED AT THE PRE-CONSTRUCTION MEETING.

THE ENGINEERING FIRM WILL MAKE PAYMENT FOR ALL LONG DISTANCE TELEPHONE CALLS IN EXCESS OF ONE HUNDRED DOLLARS (\$100.00) PER

THE CONTRACTOR WILL FURNISH A CELL PHONE TO THE RESIDENT ENGINEER FOR HIS EXCLUSIVE USE FOR THE DURATION OF THIS PROJECT. THE RESIDENT ENGINEER WILL USE THIS PHONE FOR PROJECT BUSINESS ONLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CHARGES ASSOCIATED WITH THIS CELL PHONE.

THE PROPOSED ENGINEER'S FIELD OFFICE INCLUDING THE CELL PHONE WILL BE PAID FOR UNDER ITEMS:

AR150510 ENGINEER'S FIELD OFFICE _____ 1 L.S.

EROSION CONTROL

THIS PROJECT WILL DISTURB LESS THAN 1 ACRE OF LAND, THEREFORE NO N.P.D.E.S. PERMIT WILL BE REQUIRED.

HEIGHT OF CONSTRUCTION EQUIPMENT

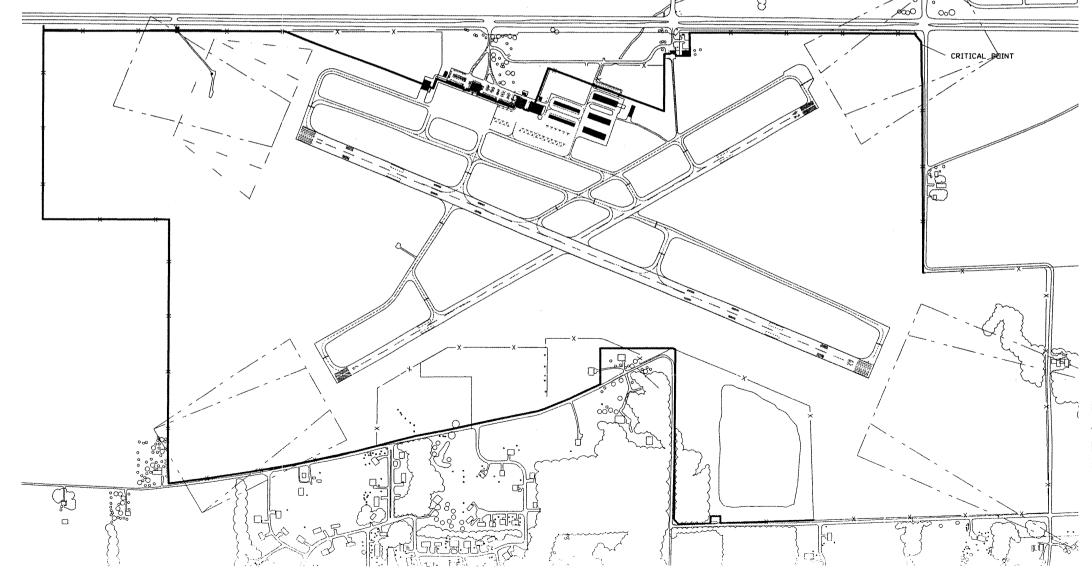
THE MAXIMUM ANTICIPATED HEIGHT OF THE CONSTRUCTION EQUIPMENT WILL BE 25 FEET. THE TALLEST EQUIPMENT IS EXPECTED TO BE A CONCRETE

LEGEND



HALF SIZE SCALE: 1' 1000

HANSON



EARTHWORK

MINOR EARTHWORK GRADING MAY BE NECESSARY TO ESTABLISH ADEQUATE CLEARANCE FOR THE PROPOSED FENCE. HOWEVER, THIS WORK IS ANTICIPATED TO BE MINIMAL SINCE THE MAJORITY OF THE PROPOSED ALIGNMENT FOLLOWS THAT OF THE EXISTING FENCE. THEREFORE, EARTHWORK WILL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE

THE CONTRACTOR IS RECOMMENDED TO VISIT THE SITE AND INSPECT THE PROPOSED ALIGNMENT.

THE CONTRACTOR WILL BE PERMITTED TO ACCESS THE AIRPORT PROPERTY THROUGH ANY OF THE EXISTING GATES THAT ARE IN CLOSE PROXIMITY TO THE WORK TO BE COMPLETED THAT DAY. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE HIS DAILY ACCESS WITH THE RESIDENT ENGINEER AND THE AIRPORT DIRECTOR.

	QUANTITY SCHE	DULE	
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR161900	REMOVE CLASS C FENCE	L.F.	21,211
AR161910	REMOVE CLASS C GATE	EACH	9
AR162900	REMOVE CLASS E FENCE	L.F.	5,169
AR162908	REMOVE ELECTRIC GATE	EACH	2
AR162910	REMOVE CLASS E GATE	EACH	15

FENCE REMOVAL NOTES

THE EXISTING FENCE TO BE REPLACED IS 4 FOOT TALL CLASS C-WOVEN WIRE FENCE, 4 FOOT TALL CLASS E - CHAIN LINK FENCE, AND 6 FOOT TALL CLASS E- CHAIN LINK FENCE. THE CONTRACTOR IS REQUIRED TO REMOVE AND DISPOSE OF THE FENCE MATERIAL OFF THE AIRPORT

CO055

THE CONTRACTOR IS REQUIRED TO REMOVE THE EXISTING FENCE IN A MANNER THAT WILL NOT COMPROMISE THE SECURITY AT THE AIRPORT. THE EXISTING FENCE WILL NOT BE REMOVED UNTIL THE PROPOSED FENCE CAN BE INSTALLED IN ITS PLACE.

THE CONTRACTOR WILL BE ALLOWED TO REMOVE THE EXISTING FABRIC FROM THE EXISTING POSTS. THE FABRIC WILL BE LAID DIRECTLY ON THE GROUND TO ALLOW THE REMOVAL OF THE EXISTING POSTS AND THE INSTALLATION OF THE PROPOSED POSTS. ONCE THE CONCRETE ON THE PROPOSED POSTS HAS CURED FOR AT LEAST 3 HOURS THE CONTRACTOR WILL TIE THE EXISTING FABRIC TO THE PROPOSED POSTS. THIS WILL PROVIDE AIRPORT SECURITY WHILE THE PROPOSED CONCRETE CURES AND OBTAINS THE REQUIRED STRENGTH (MINIMUM 3,500 POUNDS IN 14 DAYS). ONCE THE CONCRETE HAS REACHED 3,500 POUNDS THE CONTRACTOR WILL BE ALLOWED TO REMOVE THE EXISTING FABRIC AND STRETCH AND TIE THE PROPOSED FABRIC TO THE PROPOSED POSTS. IN THIS FASHION THE CONTRACTOR WILL REMOVE AND REPLACE THE EXISTING FENCE. ONLY THE EQUIVALENT AMOUNT OF FENCE THAT CAN BE ERECTED IN A DAY'S TIME CAN BE REMOVED IN ORDER TO AVOID LINACCEPTABLE GAPS. THE CONTRACTOR IS CAUTIONED TO BE COGNIZANT OF INCLEMENT WEATHER. EQUIPMENT TROUBLE, OR OTHER UNEXPECTED EVENTS THAT WOULD INTERFERE WITH THE COMPLETION OF A DAYS WORK. A GAP IN THE FENCE WILL NOT BE PERMITTED TO REMAIN OVERNIGHT.

ALL EXISTING FENCE MATERIAL TO INCLUDE FENCE POST, WIRE, HARDWARE, CONCRETE, AND ALL ASSOCIATED MATERIAL SHALL BE REMOVED AND DISPOSED OF OFF THE AIRPORT PROPERTY. DISPOSAL OF THE EXISTING FENCE MATERIAL SHALL BE INCLUDED IN THE COST OF AR161900. AR161910, AR162900, AR162908, AND AR162910.

THE REMOVAL OF SHRUBS, SMALL TREES, STUMPS, LOGS, ETC. THAT ARE IN THE EXISTING FENCE LINE WILL BE REMOVED AND DISPOSED OF OFF THE AIRPORT SITE. THIS REMOVAL AND DISPOSAL WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE FENCE/GATE REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

LEGEND

] EXISTING IMPROVEMENTS

EXISTING FENCE (TO BE REMOVED)

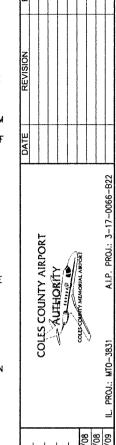
250' 500'

HALF SIZE SCALE: 1"= 1000

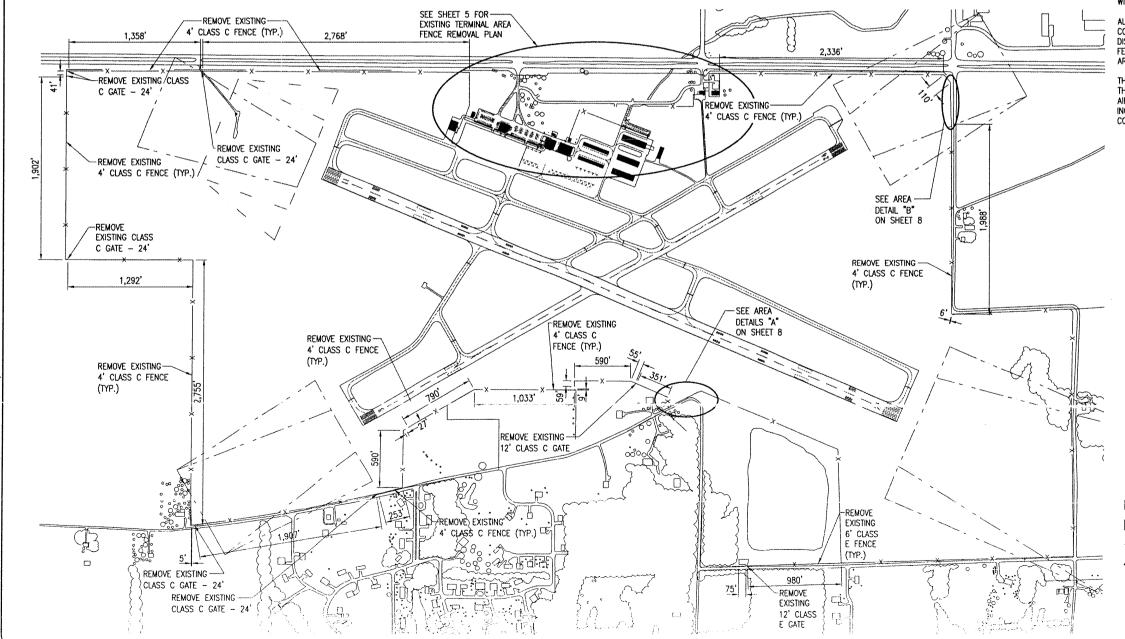
FULL SIZE SCALE: 1"= 500

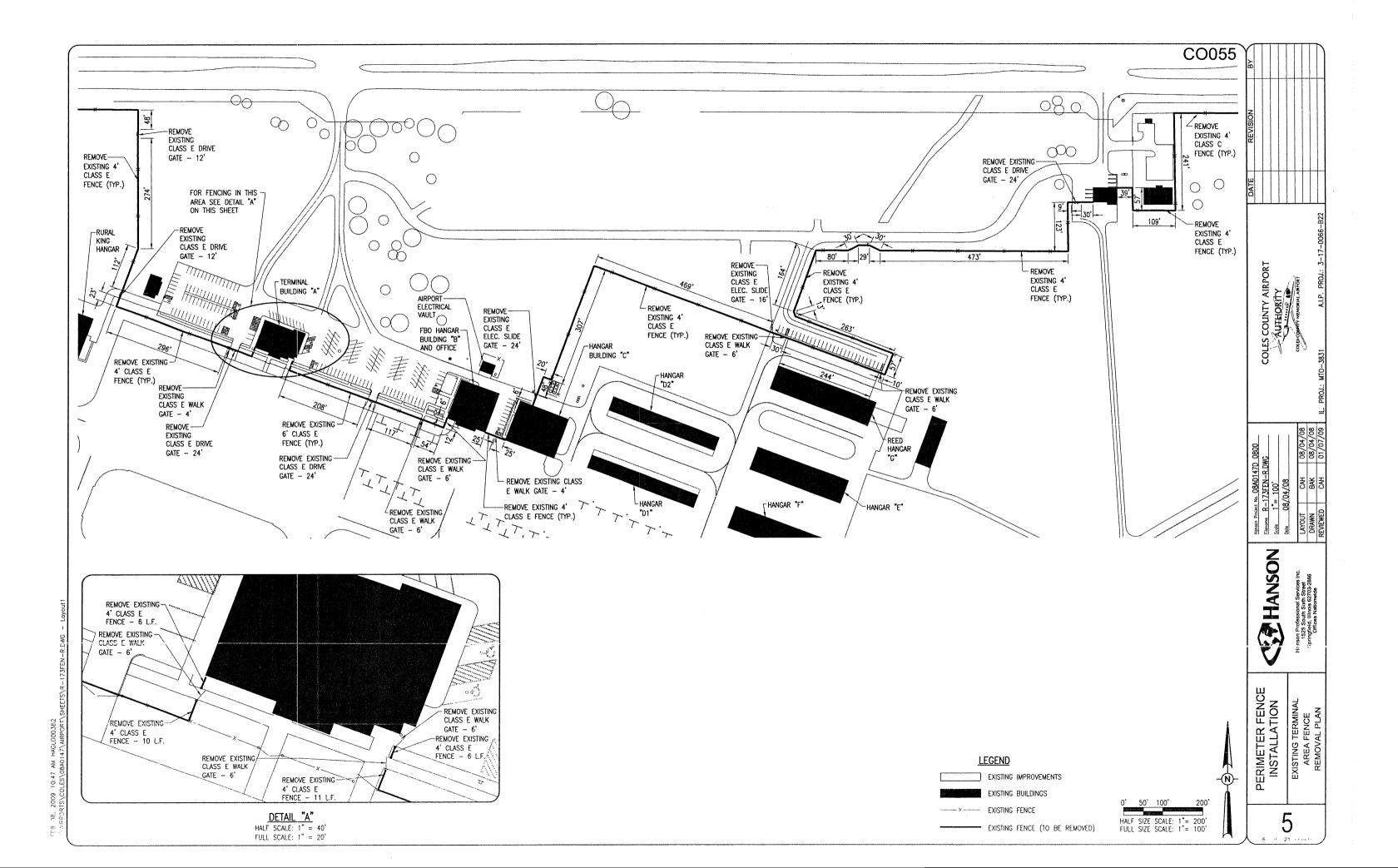
EXISTING BUILDINGS

EXISTING FENCE



HANSON





FENCE INSTALLATION NOTES

THE PROPOSED FENCE SHALL BE A 10 FOOT CLASS E FENCE WITH THREE STRANDS OF BARB WIRE. THE PROPOSED FENCE IN THE FRONTAL AREA SHALL BE A 8 FOOT CLASS E FENCE WITHOUT BARB WIRE, THIS WORK WILL INCLUDE WALK GATES, DRIVE GATES AND SLIDE GATES, THE PROPOSED FENCE SHALL MEET THE REQUIREMENTS PROVIDED IN THE SPECIAL

THE CONTRACTOR IS REQUIRED TO REMOVE THE EXISTING FENCE IN A MANNER THAT WILL NOT COMPROMISE THE SECURITY AT THE AIRPORT. THE EXISTING FENCE WILL NOT BE REMOVED UNTIL THE PROPOSED FENCE CAN

THE CONTRACTOR WILL BE ALLOWED TO REMOVE THE EXISTING FABRIC FROM THE EXISTING POSTS. THE FABRIC WILL BE LAID DIRECTLY ON THE GROUND TO ALLOW THE REMOVAL OF THE EXISTING POSTS AND THE INSTALLATION OF THE PROPOSED POSTS. ONCE THE CONCRETE ON THE PROPOSED POSTS HAS CURED FOR AT LEAST 3 HOURS THE CONTRACTOR WILL TIE THE EXISTING FABRIC TO THE PROPOSED POSTS. THIS WILL PROVIDE AIRPORT SECURITY WHILE THE PROPOSED CONCRETE CURES AND OBTAINS THE REQUIRED STRENGTH (MINIMUM 3.500 POUNDS IN 14 DAYS), ONCE THE CONCRETE HAS REACHED 3,500 POUNDS THE CONTRACTOR WILL BE ALLOWED TO REMOVE THE EXISTING FABRIC AND STRETCH AND TIE THE PROPOSED FABRIC TO THE PROPOSED POSTS. IN THIS FASHION THE CONTRACTOR WILL REMOVE AND REPLACE THE EXISTING FENCE. ONLY THE EQUIVALENT AMOUNT OF FENCE THAT CAN BE FRECTED IN A DAY'S TIME CAN BE REMOVED IN ORDER TO AVOID UNACCEPTABLE GAPS. THE CONTRACTOR IS CAUTIONED TO BE COGNIZANT OF INCLEMENT WEATHER. EQUIPMENT TROUBLE, OR OTHER UNEXPECTED EVENTS THAT WOULD INTERFERE WITH THE COMPLETION OF A DAYS WORK. A GAP IN THE FENCE WILL NOT BE PERMITTED TO REMAIN OVERNIGHT.

-PROPOSED 10' CLASS

EXISTING UTILITY LOCATIONS

NONE OF THE EXISTING UTILITIES LOCATED ALONG THE PROPOSED ALIGNMENT HAVE BEEN SHOWN. THE CONTRACTOR MUST CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO INSTALLING ANY PROPOSED FENCING. ANY EXISTING UTILITY DAMAGED BY THE CONTRACTOR WILL BE REPAIRED TO THE SATISFACTION OF THE UTILITY OWNER. THE REPAIRS WILL BE MADE AT THE CONTRACTOR'S OWN EXPENSE.

FENCING ALONG OLD STATE ROAD

THE PROPOSED FENCE SHALL BE PLACED AT A DISTANCE OF 35' FROM THE CENTERLINE OF THE OLD STATE ROAD. THIS DISTANCE CAN BE VARIED TO MISS UTILITIES OR OTHER OBSTRUCTIONS. THE RESIDENT ENGINEER WILL DETERMINE THE DISTANCE THE FENCE WILL BE MOVED.

NOTE

THE CONTRACTOR WILL BE PERMITTED TO ACCESS THE AIRPORT PROPERTY THROUGH ANY OF THE EXISTING GATES THAT ARE IN CLOSE PROXIMITY TO THE WORK TO BE COMPLETED THAT DAY. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE HIS DAILY ACCESS WITH THE RESIDENT ENGINEER AND THE AIRPORT DIRECTOR.

CO055

EARTHWORK

MINOR EARTHWORK GRADING MAY BE NECESSARY TO ESTABLISH ADEQUATE CLEARANCE FOR THE PROPOSED FENCE. HOWEVER, THIS WORK IS ANTICIPATED TO BE MINIMAL SINCE THE MAJORITY OF THE PROPOSED ALIGNMENT FOLLOWS THAT OF THE EXISTING FENCE. THEREFORE. EARTHWORK WILL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE

THE CONTRACTOR IS RECOMMENDED TO VISIT THE SITE AND INSPECT THE PROPOSED ALIGNMENT.

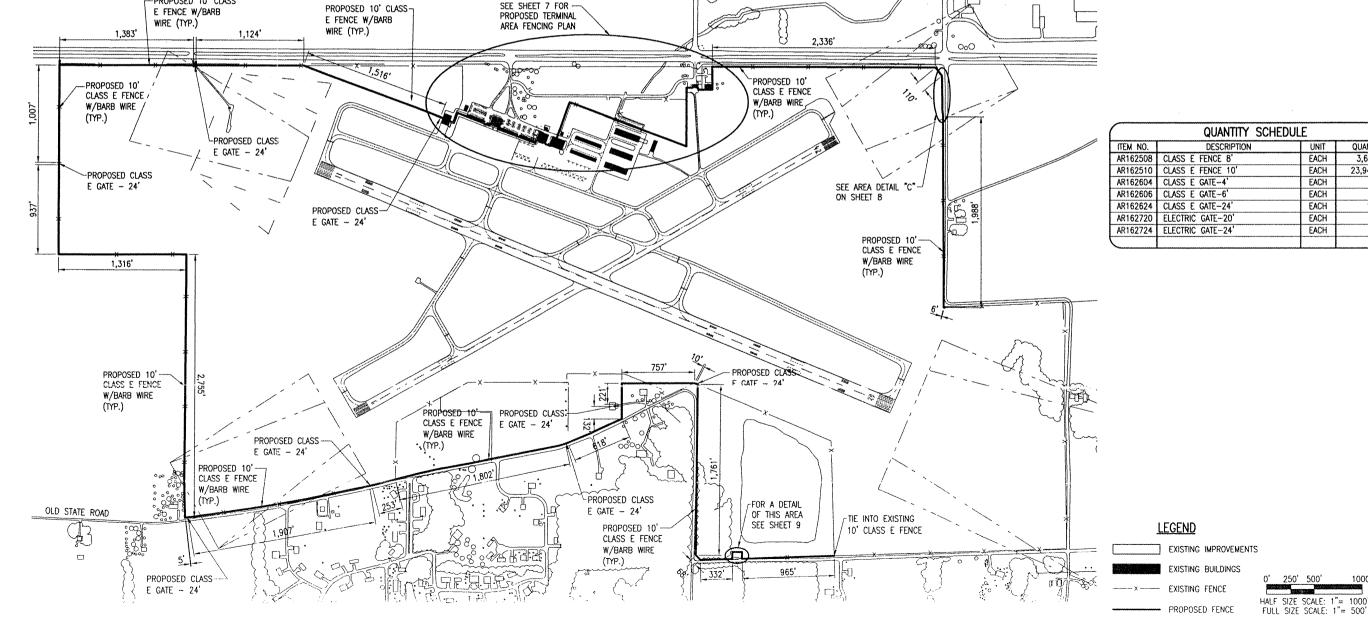
SEEDING AND MULCHING

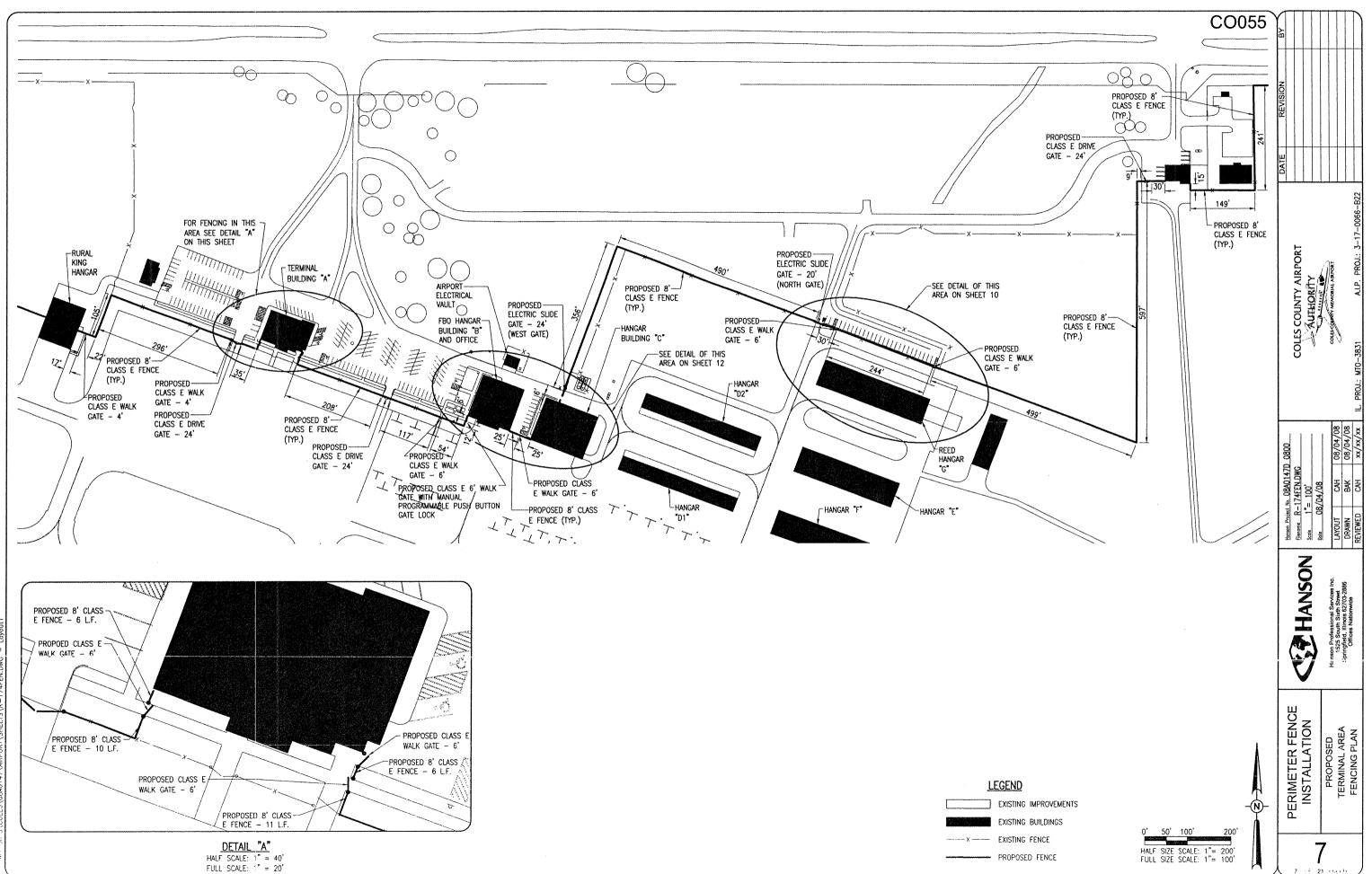
ALL AREAS ALONG THE PROPOSED FENCE ALIGNMENT DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE SEEDED IN ACCORDANCE WITH THE SPECIAL PROVISIONS. PROPOSED SEEDING WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE PROPOSED FENCING.



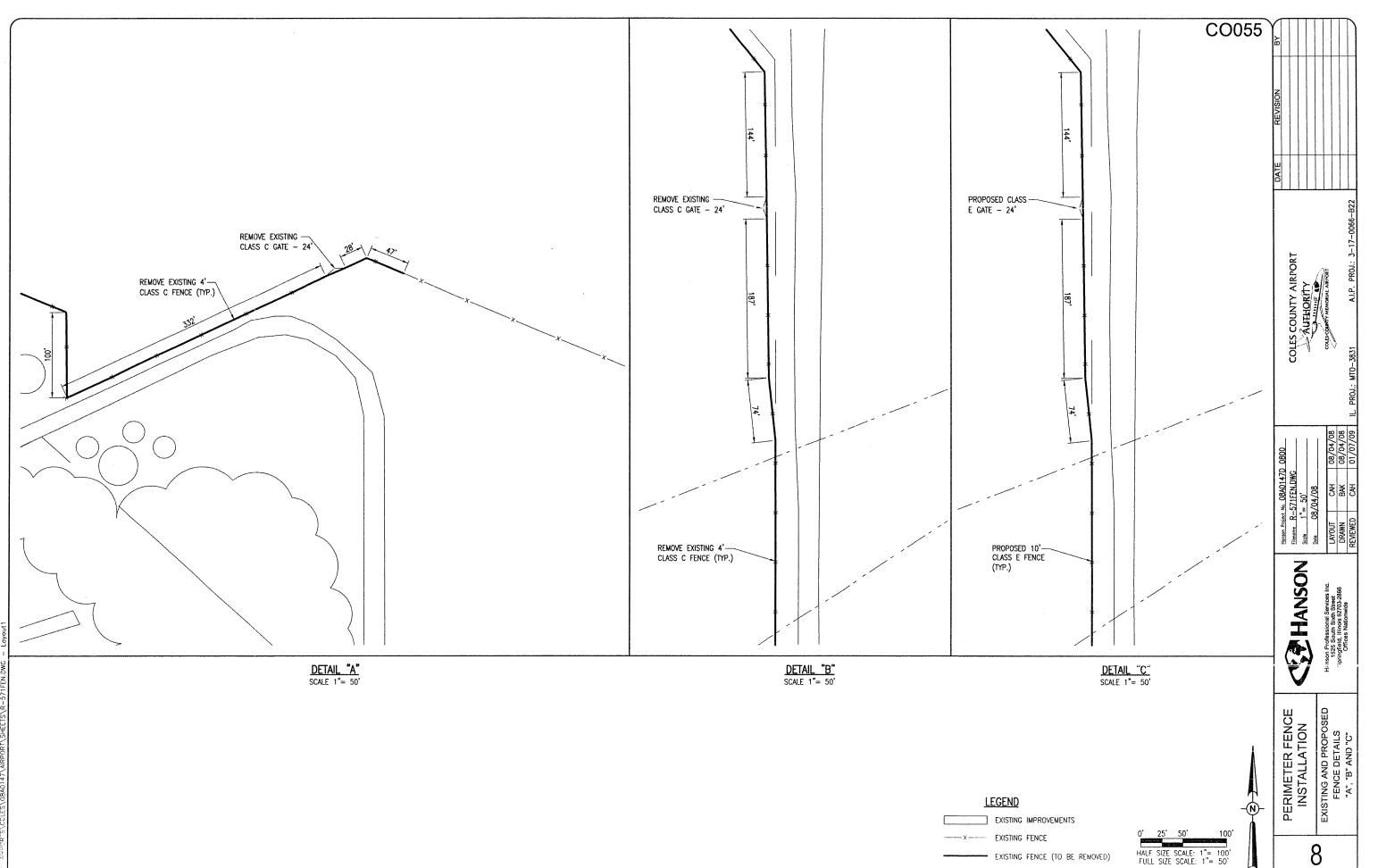
	QUANTITY SCHEDUL	Ε	
EM NO.	DESCRIPTION	UNIT	QUANTITY
R162508	CLASS E FENCE 8'	EACH	3,621
R162510	CLASS E FENCE 10'	EACH	23,949
R162604	CLASS E GATE-4'	EACH	2
R162606	CLASS E GATE-6'	EACH	9
R162624	CLASS E GATE-24'	EACH	12
R162720	ELECTRIC GATE-20'	EACH	1
R162724	ELECTRIC GATE-24'	EACH	1
		I	

HANSON

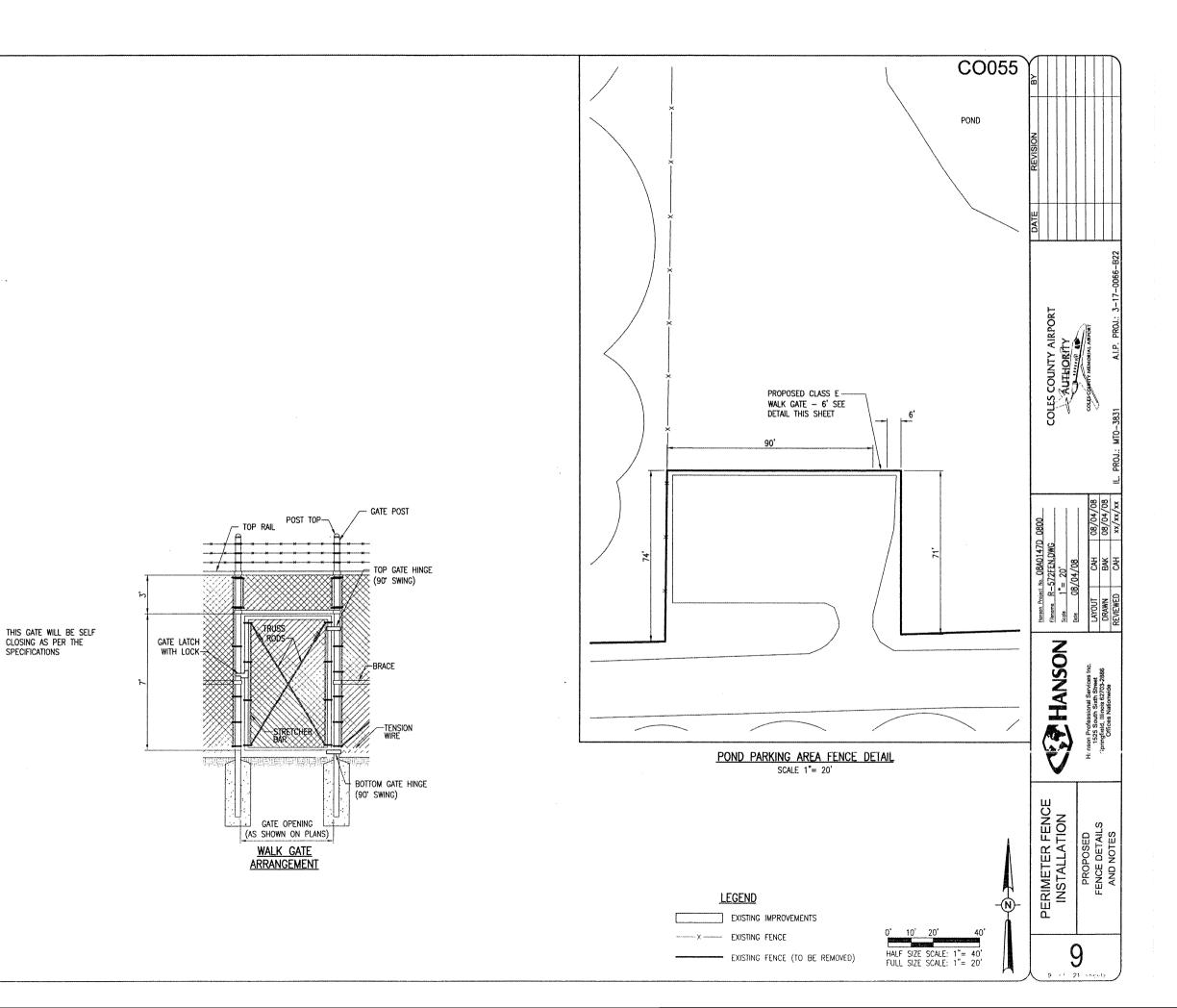




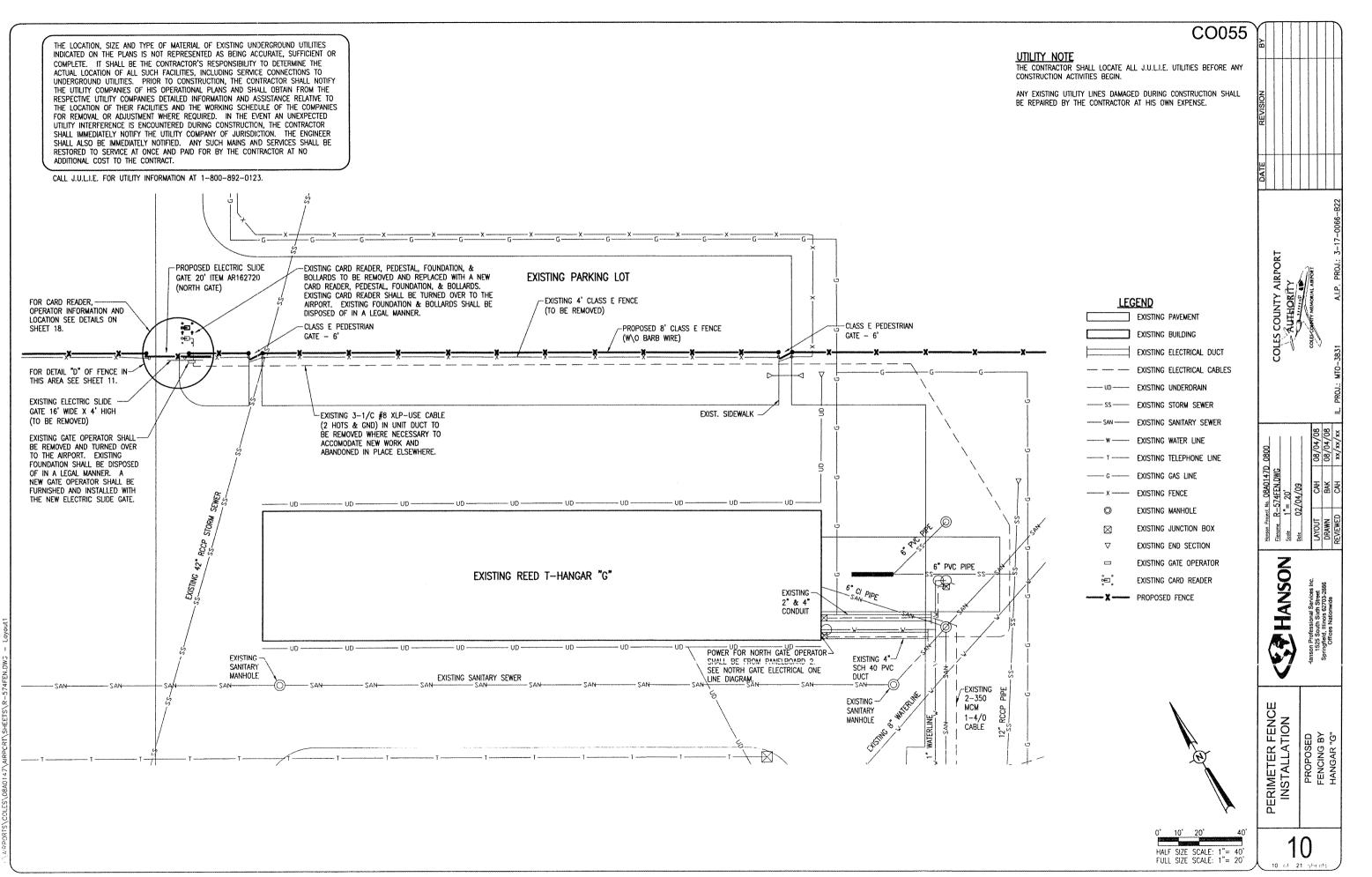
CB, 2009 10:47 AM HAGLODO362



S. 2009 10:48 AM HACLO00362

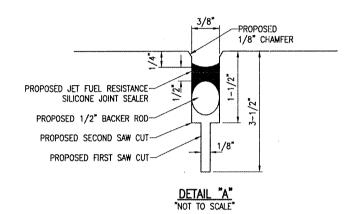


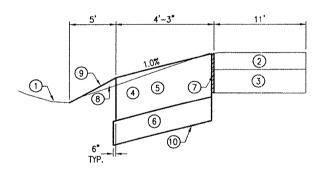
THIS GA CLOSING SPECIFIC



EB 08, 2009 10:50 AM HAGLOGO382

TYPE G HINGED
CONTRACTION JOINTS





TYPICAL SECTION "A-A"
"NOT TO SCALE"

LEGEND FOR TYPICAL SECTION "A-A"

- 1 EXISTING GRADE
- (2) EXISTING BITUMINOUS SURFACE COURSE (4" DEPTH)
- (3) EXISTING CRUSHED AGGREGATE BASE COURSE (6" DEPTH)
- 4 PROPOSED UNCLASSIFIED EXCAVATION (152)
- 5) PROPOSED P.C. CONCRETE, 9" DEPTH (610)
- 6 PROPOSED CRUSHED AGGREGATE BASE COURSE, 6" DEPTH (209)
- 7) PROPOSED BITUMINOUS PAVEMENT AND AGGREGATE BASE COURSE REMOVAL
- (8) PROPOSED EARTH FILLET (152)
- PROPOSED GRADE
- (10) SEPARATION FABRIC

UTILITY NOTE

THE CONTRACTOR SHALL LOCATE ALL J.U.L.I.E. UTILITIES BEFORE ANY CONSTRUCTION ACTIVITIES BEGIN.

ANY EXISTING UTILITY LINES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

JOINTING NOTES

ALL EXPOSED JOINT EDGES SHALL BE EDGED WITH AN APPROVED TOOL HAVING A RADIUS OF \mathcal{K}^* OR STONED TO PRODUCE THE \mathcal{K}^* CHAMFER.

ALL LONGITUDINAL AND TRANSVERSE CONTRACTION AND CONSTRUCTION JOINTS SHALL BE SAWED.

ALL TIE-BARS SHALL BE SECURELY HELD IN PLACE BY SUPPORT PINS OR OTHER METHODS TO PREVENT SHIFTING DURING AND AFTER CONCRETE PLACEMENT. SUPPORT PINS SHALL BE OF SUFFICIENT LENGTH TO PENETRATE AT LEAST 6" INTO THE SUBGRADE.

ALL TIE-BARS SHALL BE PLACED AT A POINT NOT EXCEEDING 15" OR CLOSER THAN 6" FROM A TRANSVERSE, CONTRACTION, EXPANSION, OR CONSTRUCTION JOINT AND SPACED 30" ON CENTERS AND SHALL BE NO. 5 DEFORMED BARS, 30" IN LENGTH.

ALLOWABLE TOLERANCES FOR GROOVE DEPTH WILL BE +1/8" FOR CONSTRUCTION JOINTS AND +1/4" FOR CONTRACTION JOINTS.

THE COST OF ALL TIE-BARS, SAWING AND SEALING SHALL BE INCLUDED IN THE COST OF THE P.C.C. PAVEMENT.

PRIOR TO PLACING ADJACENT PAVEMENT SECTIONS, THE VERTICAL EDGE SHALL BE CHECKED FOR TRUENESS IF THE FACE IS BURRED OR IRREGULAR, THE CONTRACTOR SHALL GRIND, STONE OR SAW THE FACE A MINIMUM OF 2" IN DEPTH TO PRODUCE A SMOOTH AND STRAIGHT EDGE.

WHEN CONSTRUCTING "FILL-IN" PAVEMENT LANES THE CONTRACTOR SHALL USE BELTING OR OTHER PROTECTIVE MATERIAL FOR THE PAVING MACHINE TO TRAVEL ON AND WILL ROPE THE TRANSVERSE JOINTS.

JOINT SEALANT SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS ITEM 501-25

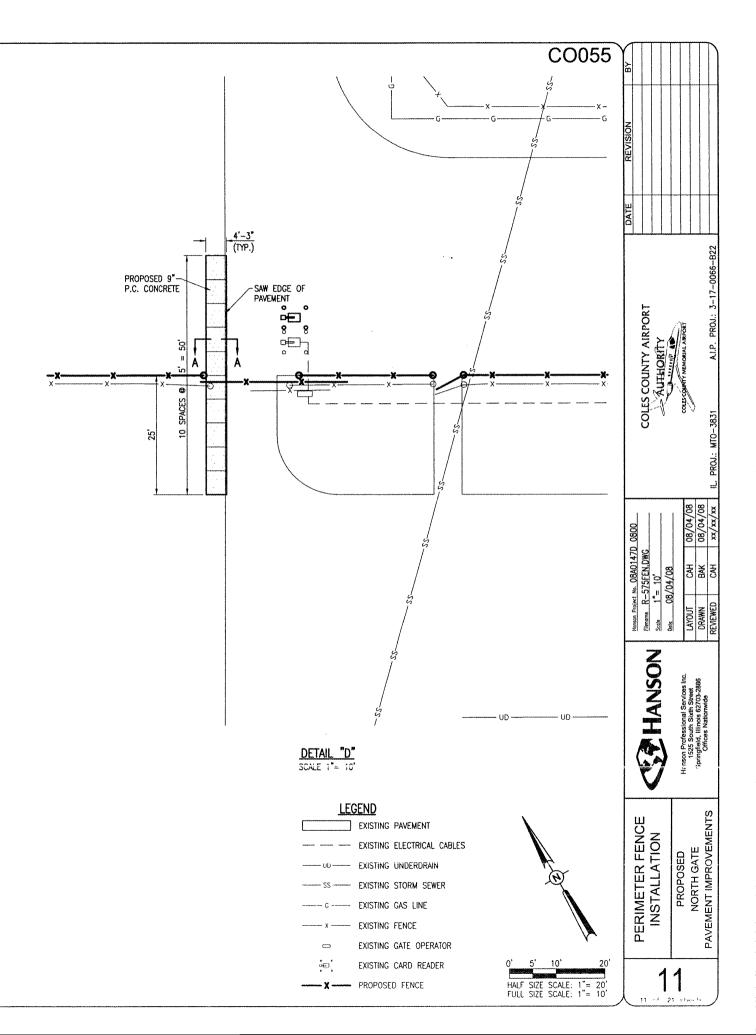
CURING COMPOUND WILL BE AS SPECIFIED IN THE SPECIFICATIONS, ITEM 501-3.17 AND SHALL BE APPROVED PRIOR TO THE PAVING OPERATION BY

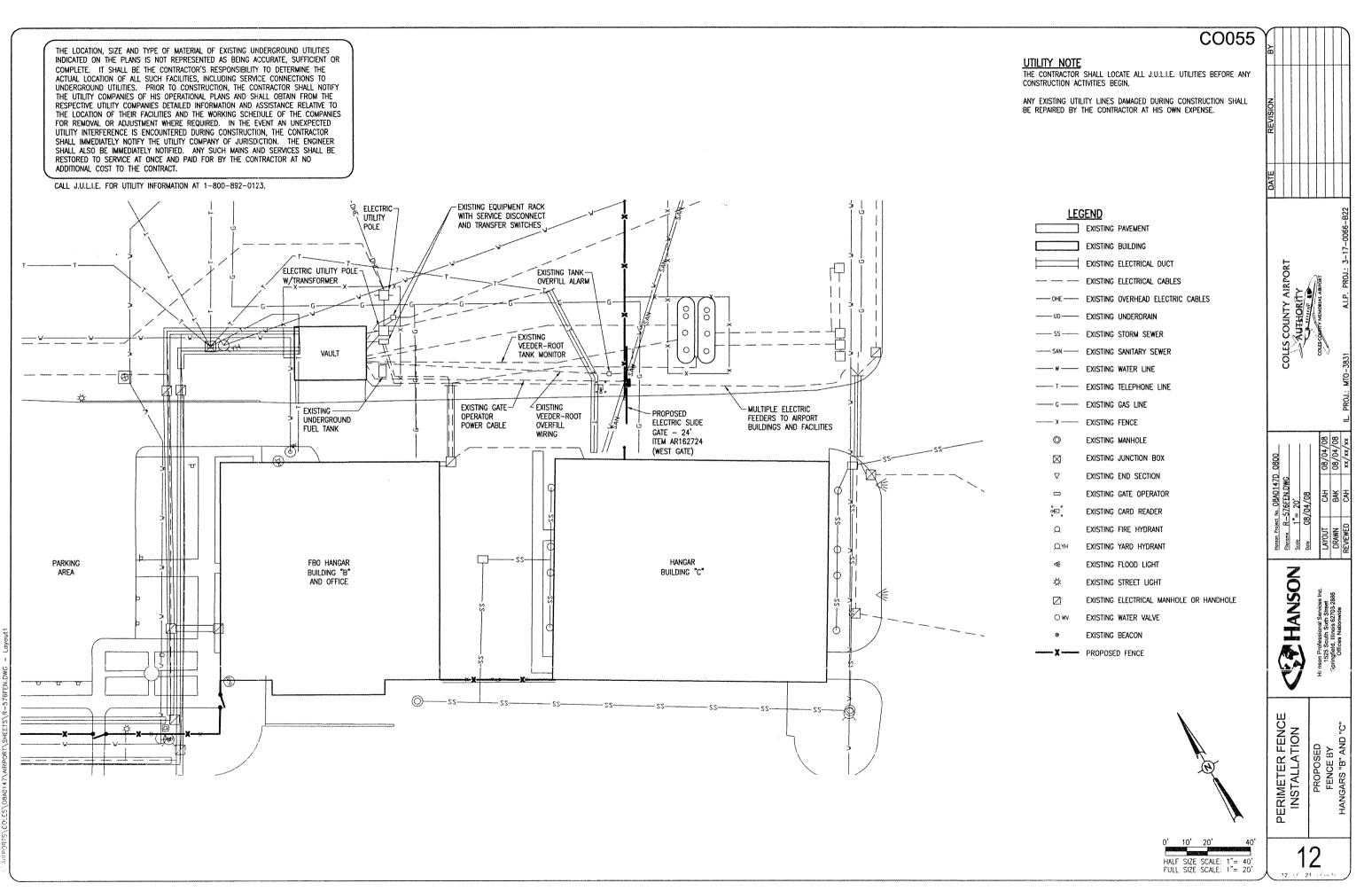
ALL NON-ALIGNED EDGES WILL BE SAWED FULL DEPTH.

THE PROPOSED JOINTING WILL BE IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS SHEET.

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 THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE 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. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND 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 1-800-892-0123.





78 08, 2009 10:51 AM HACLODO382

ELEC	TRICAL LEGEND — ONE—LINE DIAGRAM
	CABLE TERMINATOR/LUG TRANSFORMER
	
-	DISCONNECT SWITCH
- _	FUSIBLE DISCONNECT SWITCH
	CIRCUIT BREAKER
	THERMAL MAGNETIC CIRCUIT BREAKER
	FUSE
‡	TRANSIENT VOLTAGE SURGE SUPPRESSOR OR SURGE PROTECTOR DEVICE
#	GROUND - GROUND ROD, GROUNDING ELECTRODE, OR AT EARTH POTENTIAL
a	INDICATING LIGHT
W	MOTOR
①	LOAD, MOTOR, 🖟 🛥 HORSEPOWER
	ELECTRIC UTILITY METER BASE
	JUNCTION BOX WITH SPLICE
XXX	EQUIPMENT, XXX = DEVICE DESCRIPTION
GND	GROUND BUS OR TERMINAL
S/N	NEUTRAL BUS
1	Panelboard with main lugs
	PANELBOARD WITH MAIN BREAKER
***	fuse panel with main fuse pullout
	DUPLEX RECEPTACLE 120V SINGLE PHASE GROUNDING TYPE
	CONTROL STATION
N EM	Transfer swiich
	engine generator set
•	

	ELECTRICAL LEGEND - SCHEMATIC					
<u></u> - 나	NORMALLY OPEN (N.O.) CONTACT					
-#-	NORMALLY CLOSED (N.C.) CONTACT					
<u>③</u>	STARTER COIL, • = STARTER NUMBER					
OL	OVERLOAD RELAY CONTACT					
(RP)	CONTROL RELAY, • = CONTROL RELAY NUMBER					
®	RELAY, * ≈ RELAY NUMBER					
~~	TOGGLE SWITCH / 2 POSITION SWITCH					
OFF AUTO	2-position selector switch					
HAND AUTO XOOO	3-POSITION SELECTOR SWITCH (H-0-A SHOWN)					
-I	2 POLE DISCONNECT SWITCH					
迅	3 POLE DISCONNECT SWITCH					
<u>-</u>	PHOTOCELL					
-0-	TERMINAL BLOCK, * = TERMINAL NUMBER					
	DEVICE TERMINAL, * = DEVICE TERMINAL NUMBER					
	INTERNAL PANEL WIRING					
	FIELD WIRING					
	FUSE					
GND	GROUND BUS OR TERMINAL					
S/N	NEUTRAL BUS					
*	GROUND, GROUND ROD, GROUND BUS					
0000	INDUSTRIAL CONTROL RELAY OR LIGHTING CONTACTOR					
	S1 CUTOUT HANDLE REMOVED					
	S1 CUTOUT HANDLE INSERTED					
¹ 2-6	N.O. THERMAL SWITCH					
्रु	N.C. THERMAL SWITCH					
	L-830 SERIES ISOLATION TRANSFORMER					

A.F.F.	ABOVE FINSHED FLOOR
A.F.F. A, AMP	AMPERES
A, AMP	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER

	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CR	CONTROL RELAY
CN CN	COPPER
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EP	EXPLOSION PROOF
ES	EMERGENCY STOP
ETL.	INTERTEK — ELECTRICAL TESTING LABS
ETM	ELAPSE TIME METER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRSC	GALVANIZED RIGID STEEL CONDUIT
HID	HIGH INTENSITY DISCHARGE
HOA	HAND OFF AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
J	JUNCTION BOX
KVA	KILOVOLT AMPERE(S)
KW	KILOWATTS
LC	LIGHTING CONTACTOR
LTFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT (UL LISTED)
LTG	UCHTING
LP	LIGHTING PANEL
MAX	MAXIMUM POPAKED
MCB	MAIN CIRCUIT BREAKER
MCM	THOUSAND CIRCLUAR MIL
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRICAL CODE (NFPA 70)
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OHE	OVERHEAD ELECTRIC

OVERLOAD

EL	ECTRICAL ABBREVIATIONS (CONTINUED)
PB	PULL BOX
PC	РНОТО СЕЦ
PDB	POWER DISTRIBUTION BLOCK
PNL	PANEL
RCPT	RECEPTACLE
R	RELAY
s	STARTER
SPD	SURGE PROTECTION DEVICE
SPST	SINGLE POLE SINGLE THROW
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UL	UNDERWRITER'S LABORATORIES
٧	volts
W/	W TH
W/0	without
₩P	WEATHER PROOF
XFER	TRANSFER
XFMR	TRANSFORMER

XFER	Transfer				
XFMR	TRANSFORMER				
AND AND THE PROPERTY OF THE PR					
AIRPO	ORT EQUIPMENT/FACILITY ABBREVIATIONS				
ASOS	AUTONATED SURFACE OBSERVING SYSTEM				
ATCT	AIR TRAFFIC CONTROL TOWER				
AWOS	AUTOMATED WEATHER OBSERVING SYSTEM				
CCR	CONSTANT CURRENT REGULATOR				
DME	DISTANCE MEASURING EQUIPMENT				
FAR	FEDERAL AVIATION REGULATION				
cs	GLIDE SLOPE FACILITY				
HIRL	HIGH INTENSITY RUNWAY LIGHT				
ILS	INSTRUMENT LANDING SYSTEM				
IM	INNER MARKER				
UR	LOW IMPACT-RESISTANT				
roc	LOCALIZER FACILITY				
MALS	MEDIUM INTENSITY APPROACH LIGHTING SYSTEM				
MALSR	MEDIUM INTENSITY APPROACH LIGHTING SYSTEM WITH RUNWAY ALIGNMENT INDICATING LIGHTS				
MIRL	MEDIUM INTENSITY RUNWAY LIGHT				
MITL	MEDIUM INTENSITY TAXIWAY LIGHT				
NUB	NON-DIRECTIONAL BEACON				
PAPI	PRECISION APPROACH PATH INDICATOR				
PLASI	PULSE LIGHT APPROACH SLOPE INDICATOR				
RAIL	RUNWAY ALIGNMENT INDICATING LIGHTS				
REIL	RUNWAY END IDENTIFIER LIGHT				
RVR	RUNWAY VISUAL RANGE				
VADI	VISUAL APPROACH DESCENT INDICATOR				
VASI	VISUAL APPROACH SLOPE INDICATOR				
VOR	VERY HIGH FREQUENCY OMNIDIRECTIONAL RANGE FACILITY				
WC	WIND CONE				

CO055

NOTES:

- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) MOST CURRENT ISSUE IN FORCE, THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES, AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE WILL NOT BE PERMITTED.
- 2. ALL WORK, POWER OUTAGES, AND/OR SHUT DOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE AIRPORT MANAGER. ONCE SHUT DOWN, THE CIRCUITS SHALL BE LABELED AS SUCH TO PREVENT ACCIDENTAL ENERGIZING OF THE RESPECTIVE CIRCUITS. ALL PERSONNEL SHALL FOLLOW U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) 29 CFR PART 1910 OCCUPATIONAL SAFETY & HEALTH STANDARDS FOR ELECTRICAL SAFETY AND LOCKOUT/TAGOUT PROCEDURES INCLUDING, BUT NOT LIMITED TO, 29 CFR SECTION 1910.147 THE CONTROL OF HAZARDOUS ENERGY (LOCKOUT/TAGOUT).
- COLOR CODE PHASE AND NEUTRAL CONDUCTOR INSULATION FOR NO. 6 AWG OR SMALLER. PROVIDE COLORED INSULATION OR COLORED MARKING TAPE FOR PHASE AND NEUTRAL CONDUCTORS FOR NO. 4 AWG AND LARGER. INSULATED GROUND CONDUCTORS SHALL HAVE GREEN COLORED INSULATION FOR ALL CONDUCTOR AWG AND/OR KCMIL TO COMPLY WITH NEC 250.119. NEUTRAL CONDUCTORS SHALL HAVE WHITE COLORED INSULATION FOR NO. 6 AWG AND SMALLER TO MEET THE REQUIREMENTS OF NEC 200.6. STANDARD COLORS FOR POWER WIRING AND BRANCH CIRCUITS SHALL BE AS FOLLOWS:

120/240 VAC	, 1 PHASE, 3 WIRE
PHASE A	BLACK
PHASE B	RED
NEUTRAL	WHITE
GROUND	GREEN

- 4. SEE RESPECTIVE SITE PLANS FOR SITE LEGEND INFORMATION.
- LTFMC DENOTES LIQUID TIGHT FLEXIBLE METAL CONDUIT UL LISTED, SUNLIGHT RESISTANT, & SUITABLE FOR GROUNDING. LIQUID TIGHT FLEXIBLE METAL CONDUIT AND ASSOCIATED FITTINGS SHALL BE U.L. LISTED TO MEET THE REQUIREMENTS OF NEC 350.6. LIQUID TIGHT FLEXIBLE METAL CONDUIT THAT IS USED FOR FLEXIBILITY (INCLUDING CONNECTIONS TO CCR'S & TRANSFORMERS) SHALL REQUIRE AN EXTERNAL BONDING JUMPER OR INTERNAL EQUIPMENT GROUNDING CONDUCTOR PER NEC 350.60. EXTERNAL BONDING JUMPERS USED WITH CCR INSTALLATIONS SHALL BE #6 AWG COPPER (MINIMUM). DO NOT INSTALL LITIMG THAT IS NOT UL LISTED.
- ALL ENCLOSURES RATED NEMA 4, 4X SHALL HAVE WATERTICHT HUBS AT CONDUIT ENTRANCES U.L. LISTED NEMA 4, 4X FOR THE RESPECTIVE ENCLOSURE, TO MAINTAIN THE NEMA 4. 4X RATING.
- HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME WIREWAY, CONDUIT, DUCT, OR HANDHOLE.

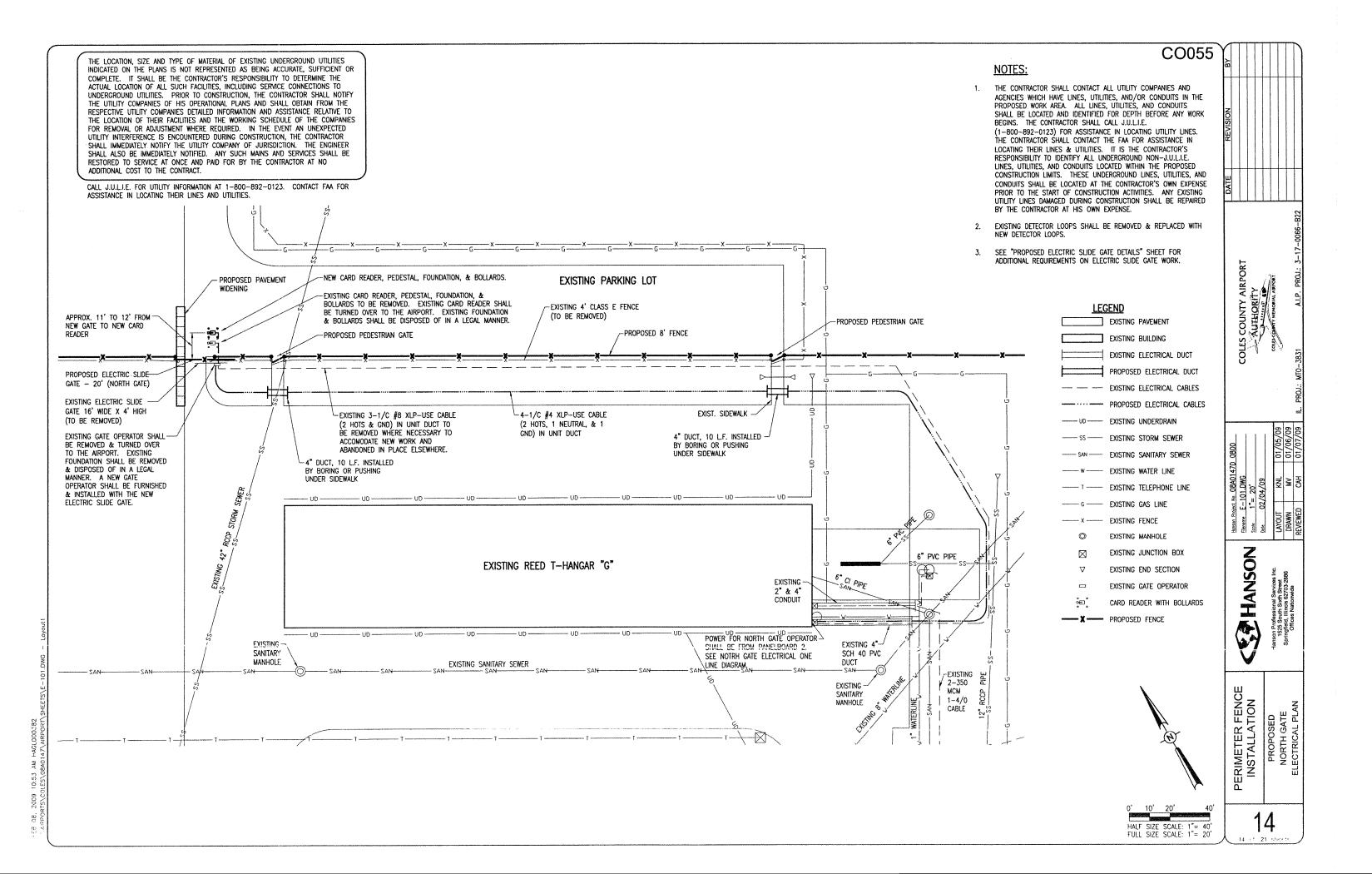
87					
REVISION					
DATE					

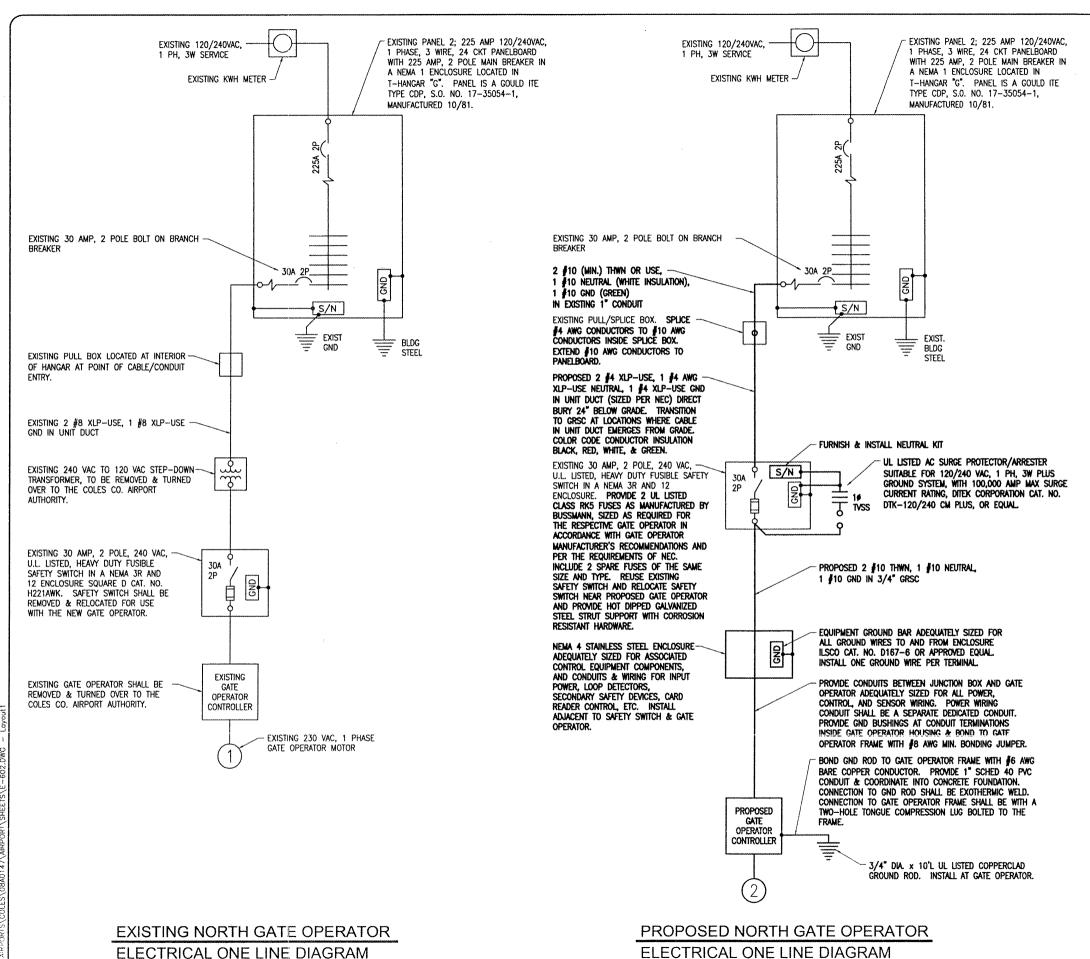
AL ARPORT		P. PROJ.: 3-17-0066-B22
12		يه

AUTHORIT

Honson Project No.	Filename E-00	Scale NONE	Date 02/C	
		アラカアラ		on accinco

PERIMETER FENCE INSTALLATION
ELECTRICAL LEGEND AND ABBREVIATIONS





CO055

ELECTRICAL NOTES

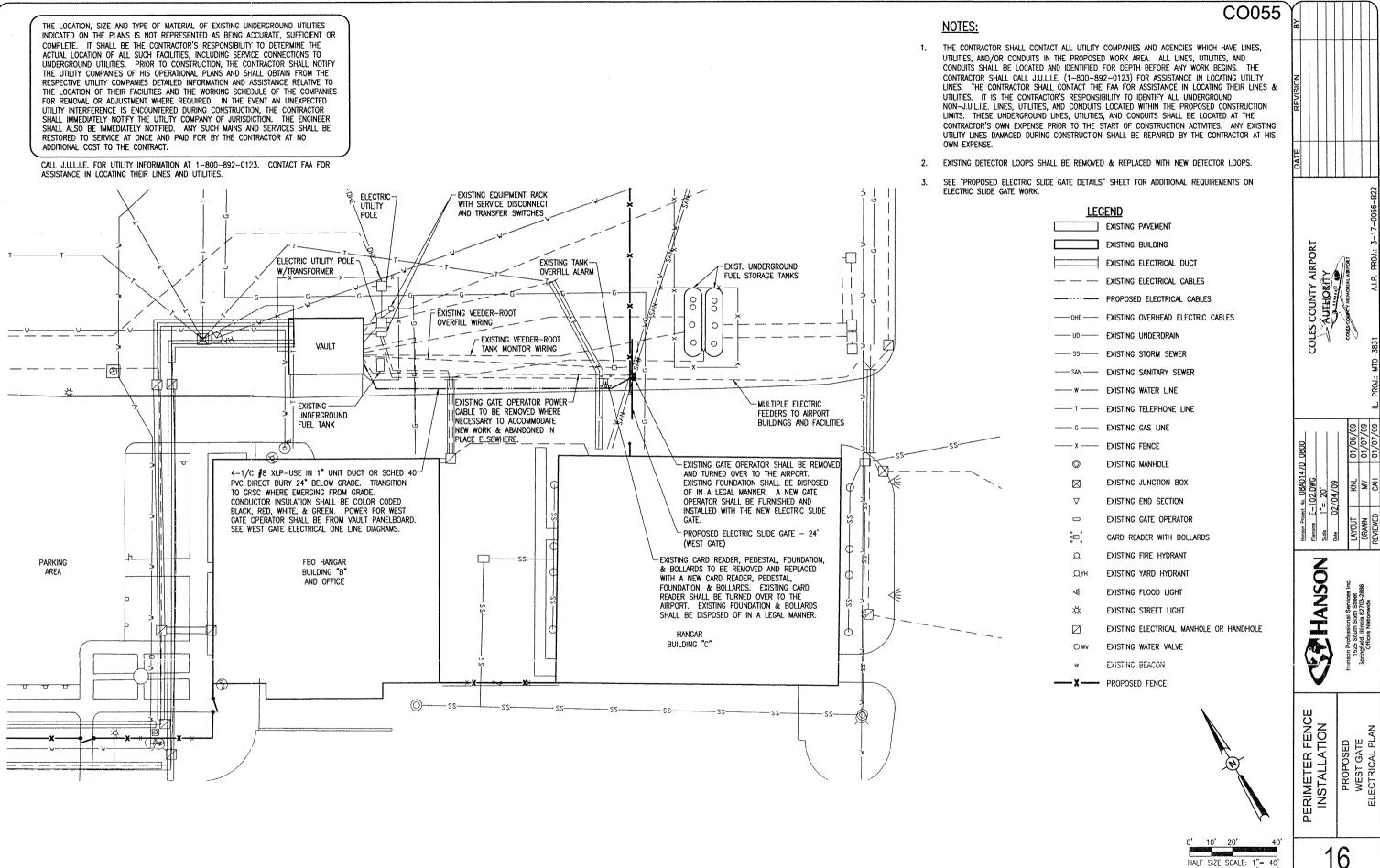
- SEE ELECTRICAL LEGEND AND ABBREVIATIONS SHEET FOR GENERAL NOTES AND REQUIREMENTS
- PER NEC 513 THE ENTIRE AREA OF A HANGAR INCLUDING ANY ADJACENT AND COMMUNICATING AREAS NOT SUITABLE CUT OFF FROM THE HANGAR, SHALL BE CLASSIFIED AS A CLASS I, DIVISION 2 HAZARDOUS LOCATION UP TO A LEVEL 18 INCHES ABOVE THE FLOOR. AREAS IN THE VICINITY OF AIRCRAFT ARE ALSO CLASSIFIED AS HAZARDOUS AS DEFINED BY NEC 513. ALL ELECTRICAL INSTALLATIONS IN CLASSIFIED HAZARDOUS LOCATIONS SHALL BE AVOIDED UNLESS SPECIFICALLY APPROVED FOR SUCH LOCATIONS AND INSTALLED IN CONFORMANCE WITH NEC 500, 501 AND 513 AS WELL AS ANY OTHER APPLICABLE CODES AND REQUIREMENTS.
- FURNISH & INSTALL ALL REQUIRED CONTROL CIRCUIT WIRING IN GALVANIZED RIGID STEEL CONDUIT FOR THE RESPECTIVE GATE OPERATOR. CONFIRM CONTROL WIRING REQUIREMENTS WITH THE RESPECTIVE GATE OPERATOR SYSTEM MANUFACTURER'S REPRESENTATIVE.
- REMOVAL OF THE EXISTING ELECTRIC SLIDE GATE WILL BE PAID FOR UNDER ITEM AR162908 - REMOVE ELECTRIC GATE.
- PROPOSED 20' ELECTRIC SLIDE GATE WILL BE PAID FOR UNDER ITEM AR162720 - ELECTRIC GATE - 20'.

	REVIS						
	DATE						
		 AIRPORT			ίĩ	RPORT	
١		⋖	Œ	=/	4	V V	

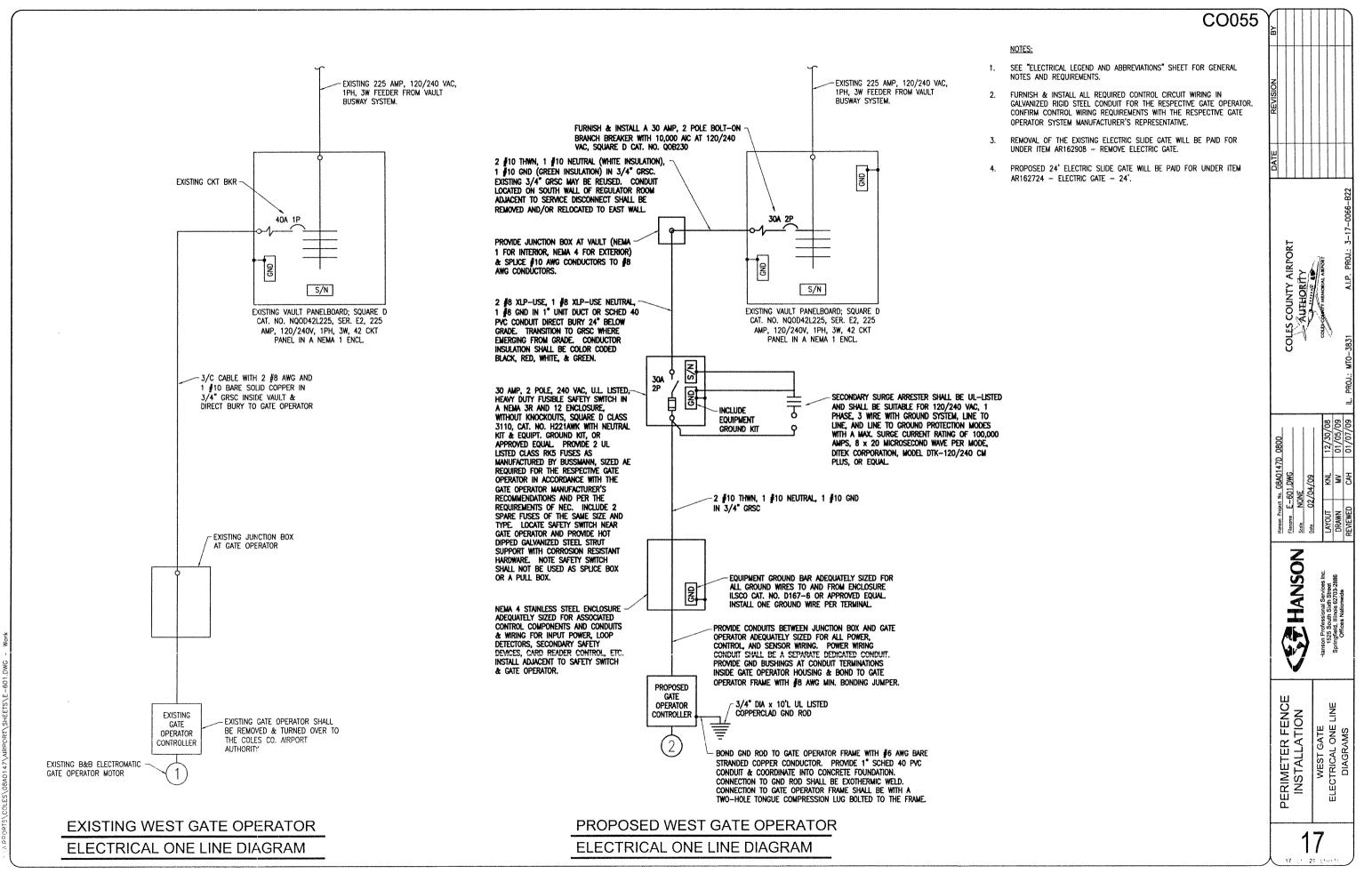
COLES COUNTY

SA HANSON

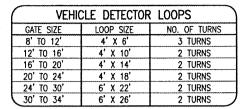
ERIMETER FENCI NORTH GATE ELECTRICAL ONE-LINE DIAGRAN

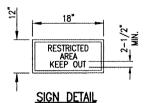


HALF SIZE SCALE: 1"= 40' FULL SIZE SCALE: 1"= 20'

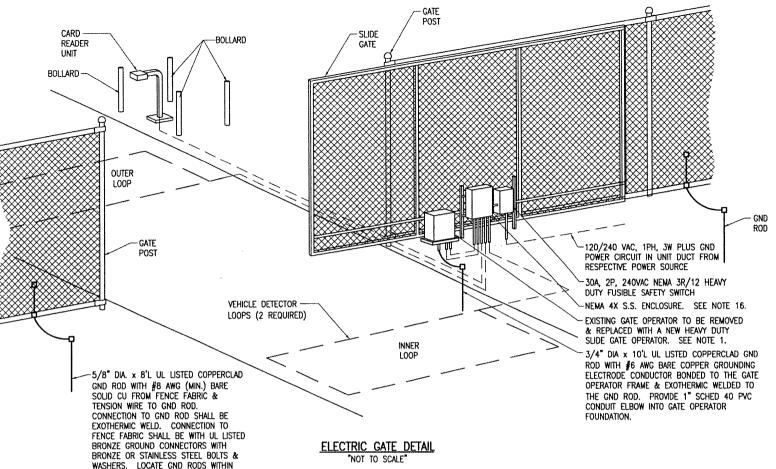


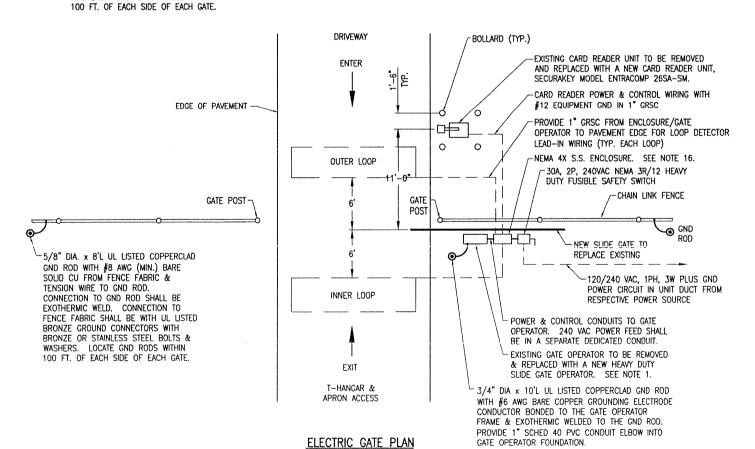
EB 08, 2009 10:55 AM HAGLO00382





NOTE:
0.08 GA. ALUMINUM ALLOY SHEET
LETTERING COLOR SHALL BE RED.
EACH GATE SHALL REQUIRE ONE
SIGN. EVERY 100' OF FENCE
SHALL REQUIRE ONE SIGN.





"NOT TO SCALE"

NOTES:

- SEE SPECIAL PROVISION SPECS FOR REQUIREMENTS ON RESPECTIVE GATE &
- ALL DIMENSIONS AND LAYOUT INFORMATION SHOWN SHOULD BE ADJUSTED AS RECOMMENDED BY THE MANUFACTURER. SEE RESPECTIVE SITE PLAN FOR
- CONCRETE FOUNDATIONS SHALL BE PROVIDED FOR THE SLIDE GATE OPERATOR AND THE CARD READER CONTROL UNIT. FOUNDATION FOR THE GATE OPERATOR SHALL BE 48" (MIN.) IN DEPTH AND OF THE SIZE RECOMMENDED BY THE MANUFACTURER PLUS MOUNTING SPACE FOR SAFETY SWITCH & J-BOX. FOUNDATION FOR THE CARD READER ACCESS CONTROL UNIT SHALL BE 48" (MIN) IN DEPTH AS DETAILED HEREIN.
- 1" GRS CONDUIT WILL BE REQUIRED BETWEEN THE SLIDE GATE OPERATOR AND THE CARD READER ACCESS CONTROL UNIT AND BETWEEN THE SLIDE GATE OPERATOR AND THE DETECTOR LOOPS. THE MINIMUM BURYING DEPTH IS 24". ALL METAL CONDUITS ENTERING THE GATE OPERATOR SHALL BE BONDED TO THE GATE OPERATOR FRAME WITH A #8 AWG (MIN.) COPPER BONDING JUMPER. CONFIRM CONTROL WIRING REQUIREMENTS WITH THE RESPECTIVE GATE OPERATOR SALES AND SERVICE REPRESENTATIVE.
- THE GUARD/BOLLARD POSTS SHALL BE 4" DIA. STEEL (HEAVY WALL) PIPE, CONCRETE FILLED, AND SHALL EXTEND FROM THE TOP OF THE CARD CONTROL UNIT TO A DEPTH OF 48" BELOW THE GROUND LINE. THE CONCRETE FOOTER DIMENSION SHALL BE AS DETAILED HEREIN. GUARD/BOLLARD POSTS SHALL BE PAINTED WITH YELLOW COLORED ENAMEL FINISH.
- THE SLIDING GATE SHALL BE CANTILEVER TYPE OF THE SIZE CALLED FOR ON THE PLANS, SHALL HAVE AN ENCLOSED ROLLER ASSEMBLY WHICH IS PROTECTED FROM FREEZING RAIN AND SNOW, AND SHALL BE AS MANUFACTURED BY TYMETAL CORPORATION OR APPROVED EQUAL
- AS PART OF THIS ITEM 250 CARDS AND 12 OR 13 (SEE SPECIAL PROVISIONS FOR QUANTITY FOR RESPECTIVE GATE) REMOTE TRANSMITTERS FOR EACH GATE SHALL BE PROVIDED BY THE CONTRACTOR. COORDINATE PROGRAMMING OF CARDS & TRANSMITTER FREQUENCIES WITH THE AIRPORT MANAGER.
- CONTRACTOR SHALL COORDINATE ANY POWER OUTAGES TO EXISTING EQUIPMENT WITH THE RESPECTIVE OWNER'S REPRESENTATIVE AND THE AIRPORT
- INCLUDE UL LISTED SECONDARY SURGE ARRESTER FOR THE GATE OPERATOR SUITABLE FOR USE ON 240 VAC, 1 PHASE, 2 WIRE PLUS GROUND SYSTEM, WITH SURGE CURRENT RATING OF 100 KA PER MODE, LIFETIME PRODUCT REPLACEMENT WARRANTY, DITEK MODEL DTK-120/240 CM PLUS OR EQUAL.
- 10. CONCRETE USED FOR INSTALLING THE GATE OPERATOR, CARD READER, & FENCE SHALL MEET THE REQUIREMENTS OF STRUCTURAL PORTLAND CEMENT
- 11. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 - NATIONAL FLECTRICAL CODE (NEC) MOST CURRENT ISSUE IN FORCE. THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES, AND REQUIREMENTS IN FORCE, ANY INSTALLATIONS WHICH VOID THE UL LISTING, ETL LISTING, (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE WILL NOT BE PERMITTED.
- 12. PROVIDE A WEATHERPROOF ENGRAVED PHENOLIC OR PLASTIC LEGEND PLATE FOR THE SAFETY SWITCH AT THE RESPECTIVE GATE OPERATOR NOTING THE GATE SERVED, VOLTAGE, AND RESPECTIVE POWER SOURCE CIRCUIT AND
- 13. PAYMENT FOR EACH SLIDE GATE, CARD READER, GATE OPERATOR, AND ALL ASSOCIATED CONTROL & SAFETY DEVICES SHALL BE ON A LUMP SUM BASIS AND SHALL BE FULL COMPENSATION FOR ALL MATERIALS, EQUIPMENT, CABLE IN CONDUIT, DUCT, OR UNIT DUCT, GROUNDING, LABOR, TOOLS, COORDINATION, TESTING, AND INCIDENTALS REQUIRED TO INSTALL THE GATE COMPLETE AND IN
- 14. CONTROL CIRCUIT WIRING SHALL NOT BE ROUTED THROUGH THE SAFETY SWITCH/DISCONNECT.
- 15. LOCATE RECEIVER ANTENNA TO PROVIDE PROPER OPERATION FROM REMOTE TRANSMITTERS FROM A DISTANCE UP TO 150 FEET. INCLUDE CONDUITS & SUPPORT HARDWARF
- 16. ALL CONTROL POWER TRANSFORMERS, POWER SUPPLIES, RECEPTACLES, LOOP DETECTOR AMPLIFIERS, SECONDARY SAFETY DEVICE EQUIPMENT, AND ANY OTHER ASSOCIATED CONTROLS SHALL BE INSTALLED EITHER INSIDE THE GATE OPERATOR CONTROL PANEL OR INSIDE A SEPARATE NEMA 4 STAINLESS STEEL CONTROL PANEL ENCLOSURE. WHERE THE CONTROL EQUIPMENT IS TO BE INSTALLED INSIDE THE GATE OPERATOR CONTROL PANEL THE CONTRACTOR SHALL COORDINATE THIS WITH THE GATE OPERATOR MANUFACTURER AND THE RESPECTIVE GATE OPERATOR EQUIPMENT SUPPLIER. LOCATING THESE CONTROLS OUTSIDE OF GATE OPERATOR CONTROL PANEL BUT WITHIN THE GATE OPERATOR HOUSING WILL NOT MEET THIS REQUIREMENT.

CO055

\$ ≥ 3

COLES

HANSON **A**

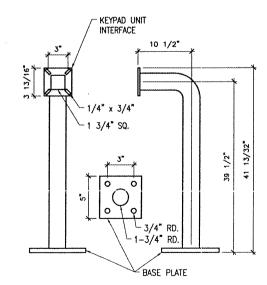
PROPOSED ELECTRIC SLIDE GATE DETAILS

ETER FENCE ALLATION ERIMETE INSTAL

18

- 1. THE EXPOSED PORTION OF THE BOLLARD SHALL BE PAINTED YELLOW EPOXY.
- 2. BOLLARD AND ASSOCIATED ITEMS ARE INCIDENTAL TO THE ELECTRIC SLIDING GATE.

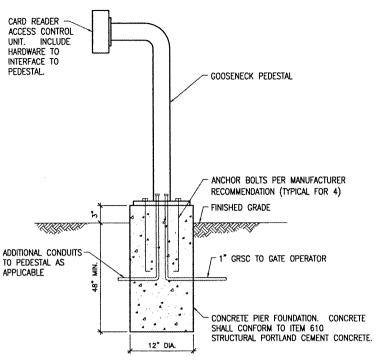
BOLLARD DETAIL



GOOSENECK PEDESTAL DETAIL

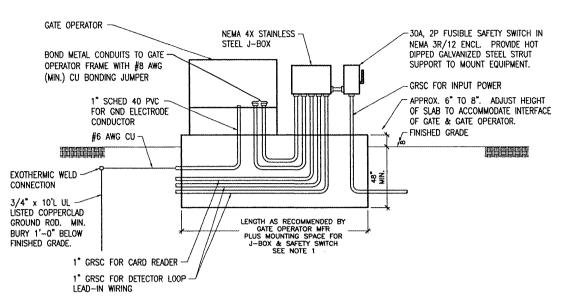
SCALE: NONE

GOOSENECK PEDESTAL SHALL BE AMERICAN ACCESS SYSTEMS, INC. (7079 SOUTH JORDAN RD., UNIT 6, ENGLEWOOD, CO 80112, PHONE: 800-541-5677, FAX 303-799-9756) MODEL 18-001 OR APPROVED EQUAL



- SEE SPECIAL PROVISION SPECS FOR REQUIREMENTS ON CARD READER ACCESS
- INCLUDE #12 AWG EQUIPMENT GND WIRE TO CARD READER.
- FACE OF CARD READER SHALL NOT EXTEND BEYOND BOLLARDS.

CARD READER ACCESS CONTROL UNIT PEDESTAL ELEVATION DETAIL SCALE: NONE



- FOUNDATION FOR GATE OPERATOR SHALL BE 48" MIN. IN DEPTH AND OF THE LENGTH & WIDTH RECOMMENDED BY THE MANUFACTURER, PLUS SPACE FOR SAFETY SWITCH, J-BOX & CONDUITS.
- 2. COORDINATE CONDUITS INTO FOUNDATION.
- CONFIRM CONDUIT SIZES AND WIRING REQUIREMENTS WITH THE GATE OPERATOR MFR. ADJUST/INCREASE CONDUIT SIZES WHERE APPLICABLE. REQUIREMENTS VARY BETWEEN DIFFERENT MANUFACTURERS.
- ALL ENCLOSURES RATED NEMA 4, 4X SHALL HAVE WATERTIGHT HUBS AT CONDUIT ENTRANCES U.L. LISTED NEMA 4, 4X FOR THE RESPECTIVE ENCLOSURE, TO MAINTAIN

GATE OPERATOR FOUNDATION DETAIL

"NOT TO SCALE"

WARNING

Moving Gate Can Cause Serious Injury or Death.

KEEP CLEAR!

Gate May Move At Any Time. Children Should Not Play Near Gate. Children Should Not Operate The Gate. Operate Gate Only When In Sight and Free of People and Obstructions. This Gate System for Vehicles Only.

WARNING SIGNS/PLACARDS AS DETAILED ABOVE OR SIMILAR, SHALL BE INSTALLED WHERE CLEARLY VISIBLE ON BOTH SIDES OF EACH ELECTRIC SLIDE GATE. WARNING SIGNS SHALL BE WEATHERPROOF. CORROSION RESISTANT METAL, AS DETAILED ABOVE, AND IN A ACCORDANCE WITH THE RESPECTIVE GATE MANUFACTURER'S RECOMMENDATIONS, B&B ARMR PART NO. 0000-0017, HY-SECURITY PART

WARNING SIGN DETAIL

	DATE	REVISION	Y E
NTY AIRPORT			
A.I.P. PROJ.: 3-17-0066-B22)

CO055

COLES COUNT

HANSON

PERIMETER FENCE INSTALLATION

19

TYPICAL SLIDE GATE STOP SIGN

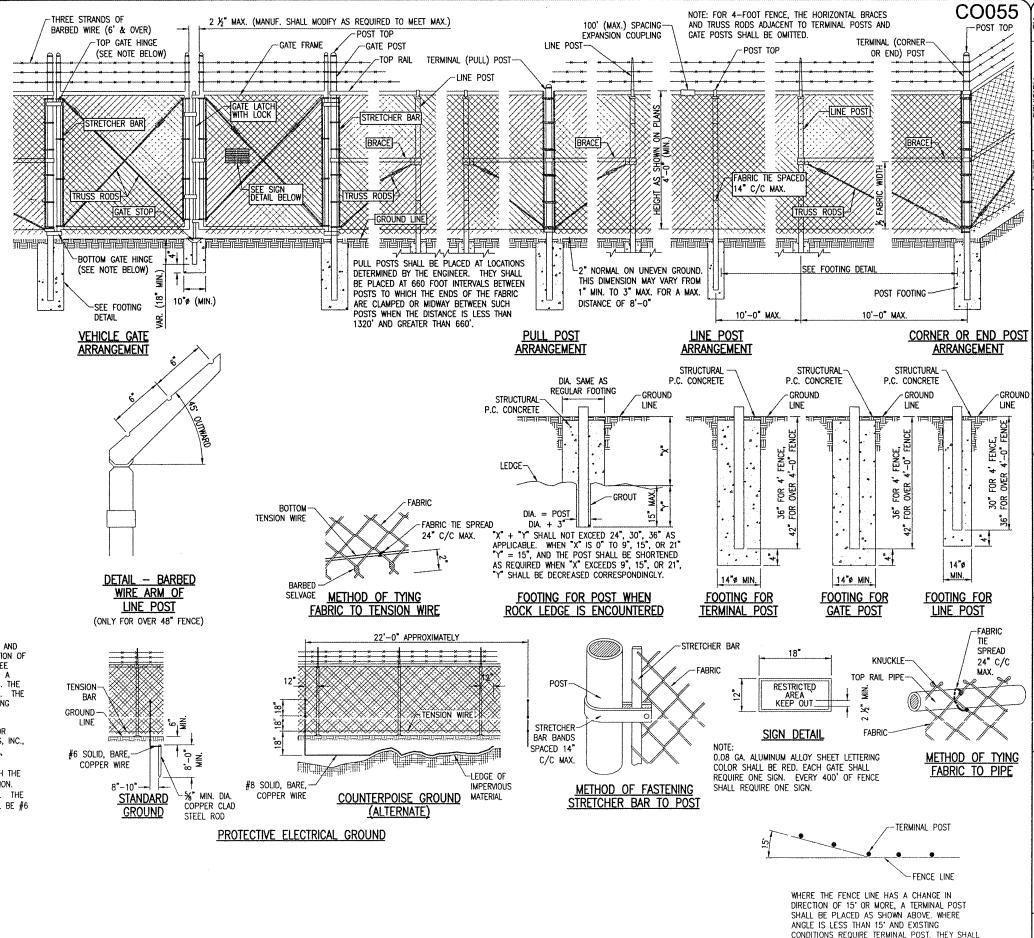
NOT TO SCALE

SLIDE GATE STOP SIGN NOTE

THE PROPOSED SLIDE GATE STOP SIGN WILL BE LOCATED WITHIN 20' (MINIMUM) TO 40' (MAXIMUM) DISTANCE FROM THE PROPOSED SLIDE GATE. ONE SIGN WILL BE INSTALLED ON BOTH SIDES OF THE PROPOSED SLIDE GATE. EXACT LOCATION WILL BE DETERMINED BY THE AIRPORT MANAGER. THESE SIGNS WILL BE PAID FOR UNDER ITEM NO. AR910200 "ROADWAY SIGN" — PER FACH.

GENERAL NOTE:

CONTINUOUS FENCE SHALL BE GROUNDED AT INTERVALS NOT EXCEEDING 500 FT IN URBAN AREAS AND 1,000 FT IN RURAL AREAS. THERE SHALL BE A GROUND WITHIN 100 FT OF GATES IN EACH SECTION OF THE FENCE ADJACENT TO THE GATE. FENCE UNDER A POWER LINE SHALL BE GROUNDED BY THREE GROUNDS; ONE DIRECTLY UNDER THE CROSSING AND ONE ON EACH SIDE 25 FT TO 50 FT AWAY. A SINGLE GROUND SHALL BE LOCATED DIRECTLY UNDER EACH TELEPHONE WIRE OR CABLE CROSSING. THE COUNTERPOISE GROUND SHALL BE USED ONLY WHERE IT IS IMPOSSIBLE TO DRIVE A GROUND ROD. THE GROUND WIRE SHALL BE CONNECTED TO THE FABRIC AND TENSION WIRE WITH UL LISTED GROUNDING CONNECTORS OF CAST BRONZE BODY AND BRONZE OR STAINLESS STEEL BOLTS AND WASHERS. GROUNDING CONNECTORS SHALL BE SIZED AND SUITABLE FOR THE RESPECTIVE APPLICATION. CONNECTIONS TO GROUND RODS SHALL BE WITH UL LISTED GROUNDING CONNECTORS SUITABLE FOR DIRECT BURIAL IN EARTH OR EXOTHERMIC WELD TYPE CONNECTORS, CADWELD BY ERICO PRODUCTS, INC., SOLON, OHIO, (PHONE 1-800-248-9353), THERMOWELD BY CONTINENTAL INDUSTRIES, INC., TULSA, OKLAHOMA (PHONE 918-663-1440) OR ULTRAWELD BY HARGER, GRAYSLAKE, ILLINOIS (PHONE 1-800-842-7437). EXOTHERMIC WELD CONNECTIONS SHALL BE INSTALLED IN CONFORMANCE WITH THE RESPECTIVE MANUFACTURER'S DIRECTIONS USING MOLDS SUITABLE FOR EACH RESPECTIVE APPLICATION. GROUND RODS SHALL BE 5/8-IN. DIAMETER BY 8 FT LONG (MINIMUM), UL-LISTED, COPPER-CLAD. THE GROUND WIRE USED TO BOND THE FENCE FABRIC AND TENSION WIRE TO THE GROUND ROD SHALL BE #6 AWG BARE SOLID COPPER CONDUCTOR.



COLES COUNTY /

HANSON

ERIMETER FENCINSTALLATION

BE PLACED AS DIRECTED BY ENGINEER.

