CONSTRUCTION PLANS

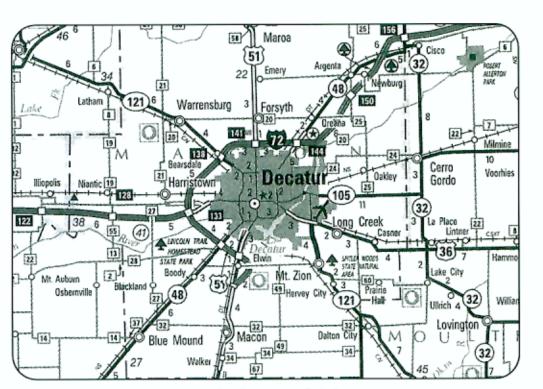
FOR

DECATUR AIRPORT

DECATUR, MACON COUNTY, ILLINOIS **INSTALL PERIMETER FENCING**

SCOPE OF WORK

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF 10-FOOT CLASS E (CHAIN LINK) FENCING IN THE SOUTH FRONTAL AREA; INCLUDING THE INSTALLATION OF ELECTRIC SLIDE GATES AND WALKWAY GATES, AND THE REMOVAL OF THE EXISTING 4-FOOT CLASS E (CHAIN LINK) FENCE, AND REMOVAL OF EXISTING ELECTRIC SLIDE GATES.



LOCATION

ILL. PROJ.: A.I.P. PROJ.: DEC-3934 3-17-00xx-xx

LATITUDE: LONGITUDE: ELEVATION: DATE:

39° 50' 05" 88° 51' 59" 682.0' M.S.L. JULY 30, 2009

DE071 TOTAL SHEETS - 14









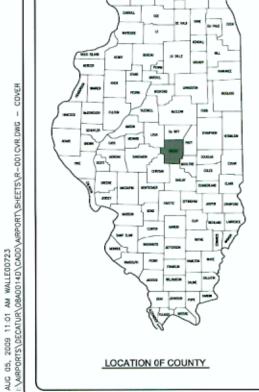






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INSTALL PERIMETER FENCING



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INSTALL
PERIMETER FENCING
SUMMARY OF QUANTITIES
AND
INDEX TO SHEETS

2 of 14 sheets

SUMMARY OF QUANTITIES								
ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITIES	AS BUILT QUANTITIES				
AR161900	REMOVE CLASS C FENCE	L.F.	530					
AR162510	CLASS E FENCE 10'	L.F.	2,665					
AR162724	ELECTRIC GATE - 24'	EACH	2					
AR162900	REMOVE CLASS E FENCE	L.F.	2,124					
AR162908	REMOVE ELECTRIC GATE	EACH	2					
AR162910	REMOVE CLASS E GATE	EACH	2					
AR800468	PEDESTRIAN GATE W/LOCK	EACH	1					

		1
	INDEX TO SHEETS	
SHEET NO.	DESCRIPTION	
1	COVER SHEET	
2	SUMMARY OF QUANTITIES AND INDEX TO SHEETS	
3	PROPOSED SAFETY PLAN	П
4	PROPOSED FENCING PLAN	'
5	PROPOSED FENCE LAYOUT DETAIL	Ι.
6	PROPOSED FENCE DETAILS	1
7	ELECTRICAL LEGEND AND ABBREVIATIONS	
8	PROPOSED CARGO FACILITY & FUEL FARM GATES ELECTRICAL PLAN	
9	EXISTING CARGO FACILITY & FUEL FARM GATES ELECTRICAL ONE LINE DIAGRAM	1
10	PROPOSED CARGO FACILITY & FUEL FARM GATES ELECTRICAL ONE LINE DIAGRAM	Ì
11	PROPOSED ELECTRIC SLIDE GATE DETAILS - CARGO FACILITY GATE	
12	PROPOSED ELECTRIC SLIDE GATE DETAILS - FUEL FARM GATE	
13	PROPOSED PEDESTRAIN SWING GATE WITH LOCK DETAILS	•
14	CARD READER, BOLLARD & GATE OPERATOR DETAILS	l
		l

SCOPE OF WORK

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF 10 FOOT CHAIN LINK FENCING IN THE SOUTH FRONTAL AREA; PROJECT INCLUDES THE INSTALLATION OF ELECTRICAL SLIDE GATE AND WALKWAY GATES.

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-AIRPORT ROAD

US ROUTE 36

-FBO BUILDING

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PROPOSED

BARRICADES

FUFL FACILITY AND

ELECTRICAL VAULT

9,0

-CONTROL TOWER

AIRPORT SECURITY NOTE

AIRPORT SECURITY WILL BE MAINTAINED AT ALL TIMES. NO GAPS IN FENCING SHALL REMAIN OVERNIGHT OR UNATTENDED DURING THE DAY.

UTILITY NOTE

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 J.U.L.I.E. (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.

HEIGHT OF CONSTRUCTION EQUIPMENT

THE MAXIMUM ANTICIPATED HEIGHT OF THE CONSTRUCTION EQUIPMENT WILL BE 15 FEET. THE TALLEST EQUIPMENT IS EXPECTED TO BE A CONCRETE

HAUL ROUTE AND VEHICLE PARKING

THE CONTRACTOR WILL USE THE DESIGNATED HAUL ROUTE AND PARKING AREA AS SHOWN ON THIS SHEET. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE PROPOSED HAUL ROUTE AND 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 REPAIR (IF PAVED AND DAMAGED); GRADE, FERTILIZE, SEED AND MULCH (IF TURF) THE HAUL ROUTE AND PARKING AREA AS NEEDED TO RESTORE IT TO ITS' ORIGINAL STATE. RESTORATION OF THE HAUL ROUTE AND PARKING AREA WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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 THE AREA DESIGNATED. 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 SHALL MAINTAIN ACCESS TO ALL FUEL AND BUILDINGS IN THE PROXIMITY OF THE PROJECT.

ALL WORK PERFORMED SHALL BE DONE IN A ORDERLY AND EFFECTIVE MANNER TO MINIMIZE CONFLICT TO NORMAL AIRPORT OPERATION.

BARRICADES AND TRAFFIC CONES

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE AND MAINTAIN BARRICADES AND TRAFFIC CONES AS DIRECTED BY THE AIRPORT MANAGEMENT. 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 RESIDENT ENGINEER CANNOT FORWARD CONSTRUCTION REPORTS TO THE ILLINOIS DIVISION OF AERONAUTICS FOR PROCESSING UNTIL ALL **CERTIFIED** PAYROLLS FOR THE PERIOD HAVE BEEN RECEIVED.

MATERIAL CERTIFICATION

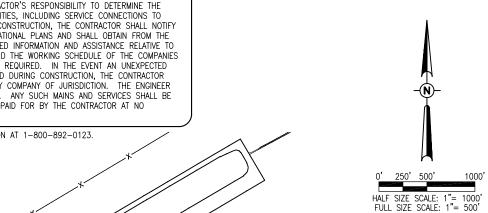
COMPLETED WORK CANNOT BE PLACED ON A CONSTRUCTION REPORT UNTIL ALL MATERIAL CERTIFICATIONS FOR THAT PAY ITEM HAVE BEEN RECEIVED, REVIEWED AND ACCEPTED BY THE RESIDENT ENGINEER.

EXISTING IMPROVEMENTS

PROPOSED IMPROVEMENTS

PROPOSED HAUL ROUTE AND EQUIPMENT PARKING AREA

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES ٥ ا 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 00 RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO 品 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.



DRIVER SAFETY TRAINING NOTE

AT LEAST ONE EMPLOYEE OF THE CONTRACTOR WILL ATTEND THE DRIVING SAFETY TRAINING CONDUCTED BY THE AIRPORT. THIS PERSON WILL OPERATE/ESCORT ALL VEHICLES THAT ARE OPERATING INSIDE THE PERIMETER

J.U.L.I.E. INFORMATION

COUNTY MACON _DECATUR TOWNSHIP __LONG CREEK SECTION NO._ _ _20 & 21 DECATUR AIRPORT ADDRESS_ AIRPORT ROAD DECATUR, ILLINOIS 62524

PROPOSED SAFETY PLAN

GENERAL - THE DECATUR AIRPORT IS COMPRISED OF THREE RUNWAYS. THE PROPOSED CONSTRUCTION WILL NOT NECESSITATE CLOSING ANY

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

THE CONTRACTOR WILL BE REQUIRED TO HAVE A TWO-WAY RADIO, CAPABLE OF BEING IN CONTACT WITH THE CONTROL TOWER, GROUND CONTROL CHANNEL (121.75 MHZ). THIS WILL KEEP THE CONTRACTOR IN CONSTANT CONTACT WITH THE CONTROL TOWER THUS KEEPING THE CONTROL TOWER INFORMED ON HIS CONSTRUCTION ACTIVITIES AND ENABLE THE CONTROL TOWER TO IMMEDIATELY CONTACT THE CONTRACTOR IN CASE OF AN AERONAUTIC EMERGENCY THAT WOULD REQUIRE SOME ACTION BY THE CONTRACTOR AND/OR HIS PERSONNEL.

150-ENGINEER'S FIELD OFFICE NOTES

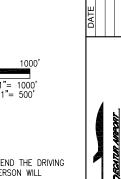
THE PROPOSED ENGINEER'S FIELD OFFICE WILL CONSIST OF PROVISION OF A WIRELESS PHONE FOR USE BY THE RESIDENT ENGINEER IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

THE CONTRACTOR WILL FURNISH A WIRELESS 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.

ALL COSTS ASSOCIATED WITH THE PROVISION OF THE PHONE WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

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



CRITICAL POINT DATA

LATITUDE: 39° 49' 39.00"

LONGITUDE: 88° 51' 51.39"

ELEVATION: 670' M.S.L.

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-CRITICAL POINT

EMPLOYEE PARKING PROPOSED HAUL ROUTE ت صي 00 B 0 0 0 U D DD 김 [[-----R- -% 0 C C 양

LEGEND

EXISTING BUILDINGS

CARGO FACILITY

-PROPOSED

CONTRACTOR'S EQUIPMENT PARKING

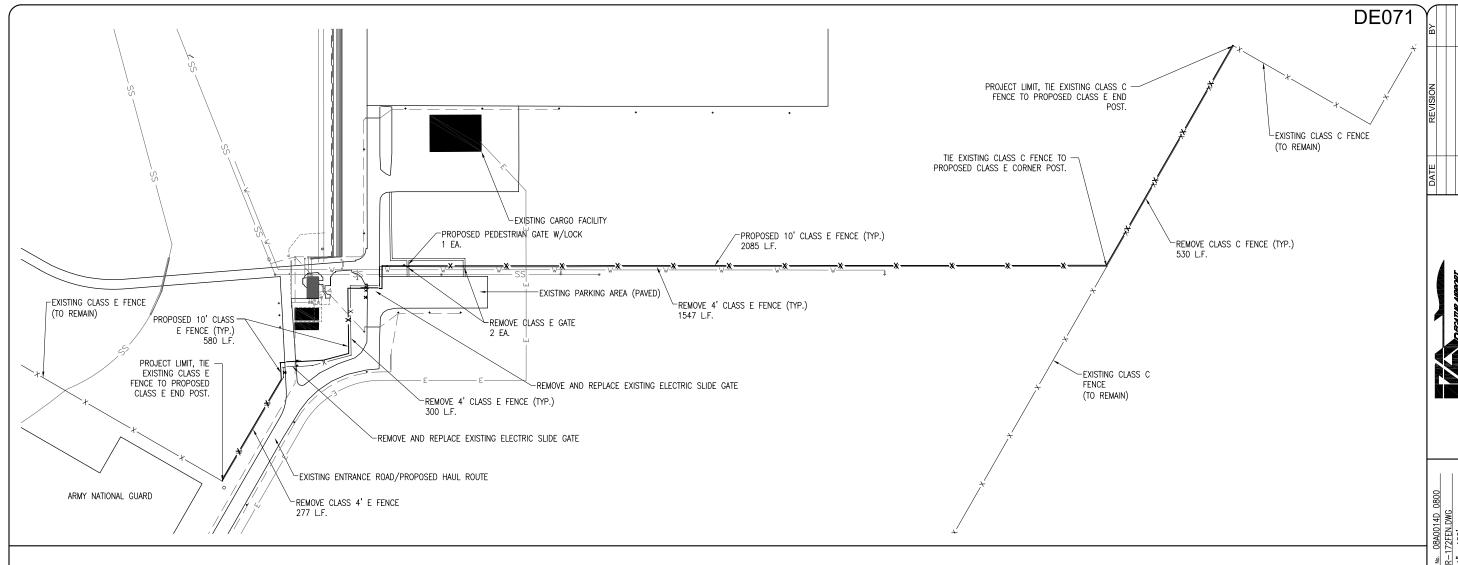
PROPOSED

CONTRACTOR'S

FENCING AREA

AND RAMP

₽ | 0.0 | 0.



LEGEND

EXISTING AIRPORT BUILDINGS ---- EXISTING PROPERTY LINE — EXISTING FENCE (TO REMAIN IN PLACE) — PROPOSED 10' CLASS E FENCE ----- W----- EXISTING WATER LINE EXISTING ELECTRIC LINE EXISTING GAS LINE -----SS----- EXISTING STORM SEWER LINE EXISTING SANITARY SEWER LINE EXISTING CONTROL CABLES EXISTING TELEPHONE LINE EXISTING UNDERDRAINS EXISTING DRAINAGE LINES

EXISTING PARKING LOT LIGHT

EXISTING MANHOLE

EXISTING INLET

UTILITY NOTE

THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND AGENCIES WHICH HAVE LINES OR CONDUITS IN THE PROPOSED WORK AREA INCLUDING THE FAA AND NATIONAL GUARD. ALL LINES AND CONDUITS SHALL BE LOCATED AND IDENTIFIED FOR DEPTH BEFORE ANY WORK BEGINS. THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) TO ACCOMPLISH THE ABOVE.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL UNDERGROUND NON-J.U.L.I.E. 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.

INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR 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.

FENCE POSTS IN PAVEMENT NOTE

FENCE POST TO BE INSTALLED IN BITUMINOUS PAVEMENT. THE PAVEMENT WILL BE SAWED FULL DEPTH FOR THE DIMENSION OF THE POST FOOTING.



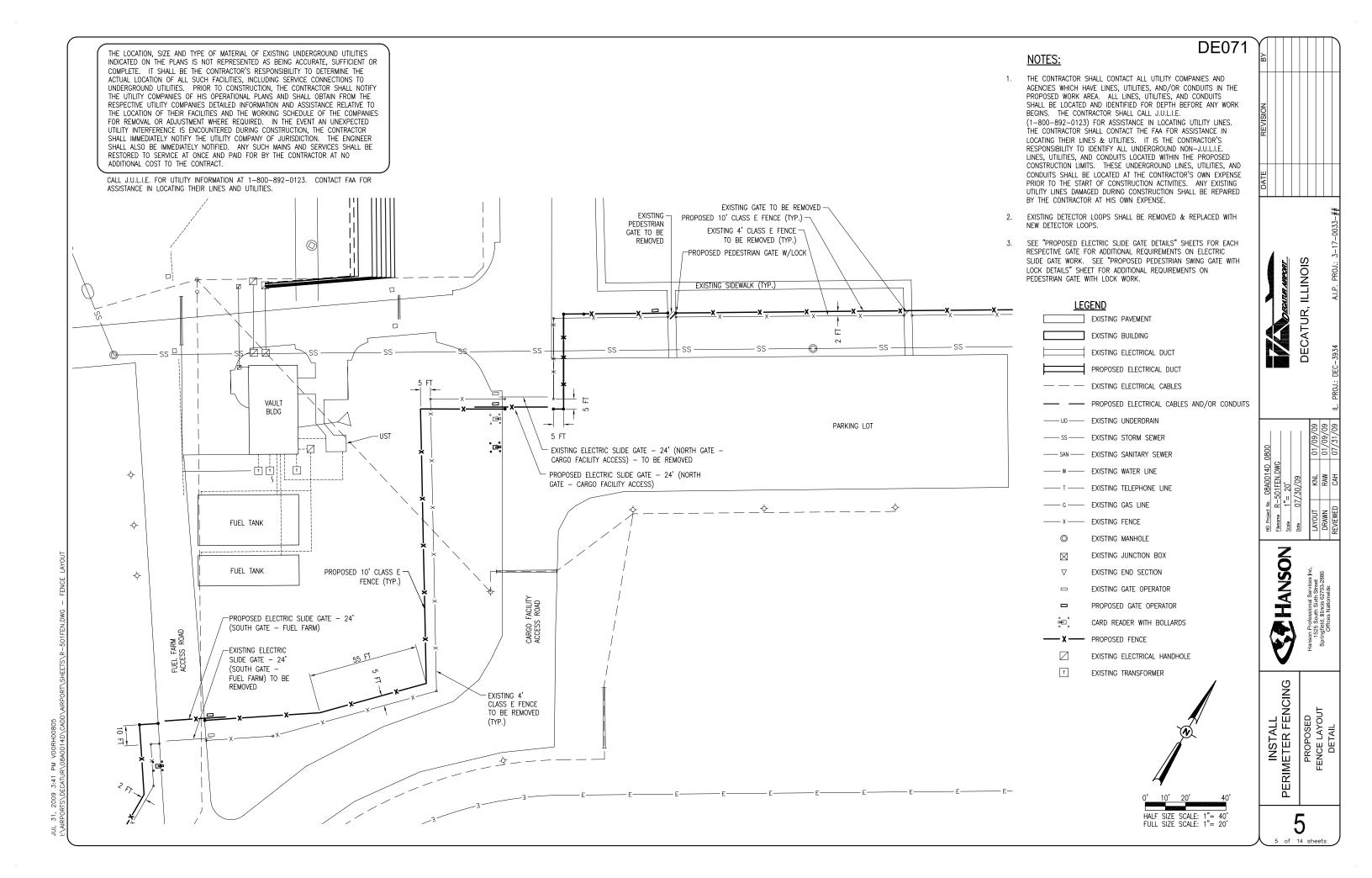
HALF SIZE SCALE: 1"= 200' FULL SIZE SCALE: 1"= 100'

INSTALL PERIMETER FENCING

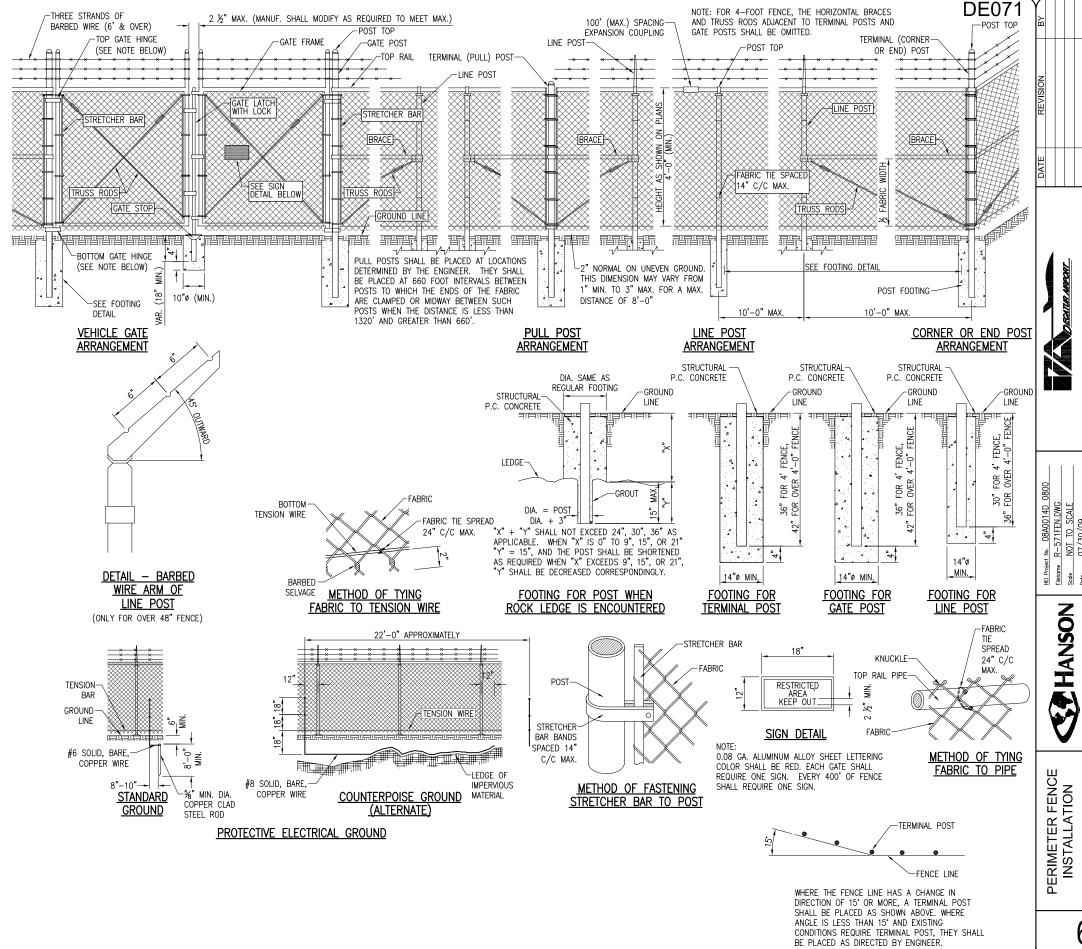
HANSON

DECATUR, ILLINOIS

EXISTING PAVEMENT THE LOCATION. SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO



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.



ILLINOIS

DECATUR,

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ELEC	CTRICAL LEGEND — ONE—LINE DIAGRAM						
-	CABLE TERMINATOR/LUG, TERMINAL BLOCK, OR SPLICE						
***	TRANSFORMER						
__	DISCONNECT SWITCH						
-\-	FUSIBLE DISCONNECT SWITCH						
	CIRCUIT BREAKER						
~~~	THERMAL MAGNETIC CIRCUIT BREAKER						
$\dashv\vdash$	NORMALLY OPEN (N.O.) CONTACT						
- <b>ਮ</b> -	NORMALLY CLOSED (N.C.) CONTACT						
	π						
	FUSE						
<b>↓</b>	TRANSIENT VOLTAGE SURGE SUPPRESSOR OR SURGE PROTECTOR DEVICE						
#	GROUND — GROUND ROD, GROUNDING ELECTRODE, OR AT EARTH POTENTIAL						
¤	INDICATING LIGHT						
W	MOTOR						
#	LOAD, MOTOR, # = HORSEPOWER						
	ELECTRIC UTILITY METER BASE						
•	JUNCTION BOX WITH SPLICE OR TERMINALS						
xxx	EQUIPMENT, XXX = DEVICE DESCRIPTION						
GND	GROUND BAR, GROUND BUS OR GROUND TERMINAL						
S/N	SOLID NEUTRAL, NEUTRAL BUS, OR NEUTRAL TERMINAL						
#	PANELBOARD WITH MAIN LUGS						
[   	PANELBOARD WITH MAIN BREAKER						
***	FUSE PANEL WITH MAIN FUSE PULLOUT						
	DUPLEX RECEPTACLE 120V SINGLE PHASE GROUNDING TYPE						
S S	CONTROL STATION						
N EM	TRANSFER SWTICH: N = NORMAL EM = EMERGENCY L = LOAD						
G	ENGINE GENERATOR SET						

	ELECTRICAL LEGEND — PLANS
	CONDUIT (EXPOSED)
	CONDUIT OR UNIT DUCT (CONCEALED OR BURIED)
	DUCT
	DUCT
—Е—	BURIED/UNDERGROUND ELECTRIC
—оне—	D ELECTRIC
\$	TOGGLE SWITCH
ⅎ	PUSH BUTTON STATION
ю о •	WALL OR CEILING MT'D. JUNCTION BOX. CONFIGURATION

CP CONTROL PANEL

	ELECTRICAL ABBREVIATIONS
A.F.F.	ABOVE FINSHED FLOOR
A, AMP	AMPERES
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
С	CONDUIT
СВ	CIRCUIT BREAKER
скт	CIRCUIT
CR	CONTROL RELAY
CU	COPPER
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
ЕМ	EMERGENCY
ЕМТ	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
НОА	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	LIGHTING
LP	LIGHTING PANEL
MAX	MAXIMUM
мсв	MAIN CIRCUIT BREAKER
мсм	THOUSAND CIRCLUAR MIL
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
мн	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

ELECTRICAL ABBREVIATIONS (CONTINUED)					
PB	PULL BOX				
PC	PHOTO CELL				
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/	WITH				
<b>W</b> /0	without				
WP	WEATHER PROOF				
XFER	TRANSFER				
XFMR	TRANSFORMER				

ELECTRICAL ADDREVIATIONS (CONTINUED)

AIRPORT EQUIPMENT/FACILITY ABBREVIATIONS						
ASOS	AUTOMATED 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					
GS	GLIDE SLOPE FACILITY					
HIRL	HIGH INTENSITY RUNWAY LIGHT					
ILS	INSTRUMENT LANDING SYSTEM					
ІМ	INNER MARKER					
LIR	LOW IMPACT-RESISTANT					
LOC	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					
NDB	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					

DE071

# 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 DIRECTOR/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).
- 5. 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.
- 5. 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 MOTORS & 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 LIFMC THAT IS NOT UL LISTED. CONFIRM LIFMC BEARS THE UL LABEL PRIOR TO INSTALLING IT
- 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 THE NEMA 4, 4X RATING.
- HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME WIREWAY, CONDUIT, DUCT, OR HANDHOLE.

BY					
REVISION					
DATE					

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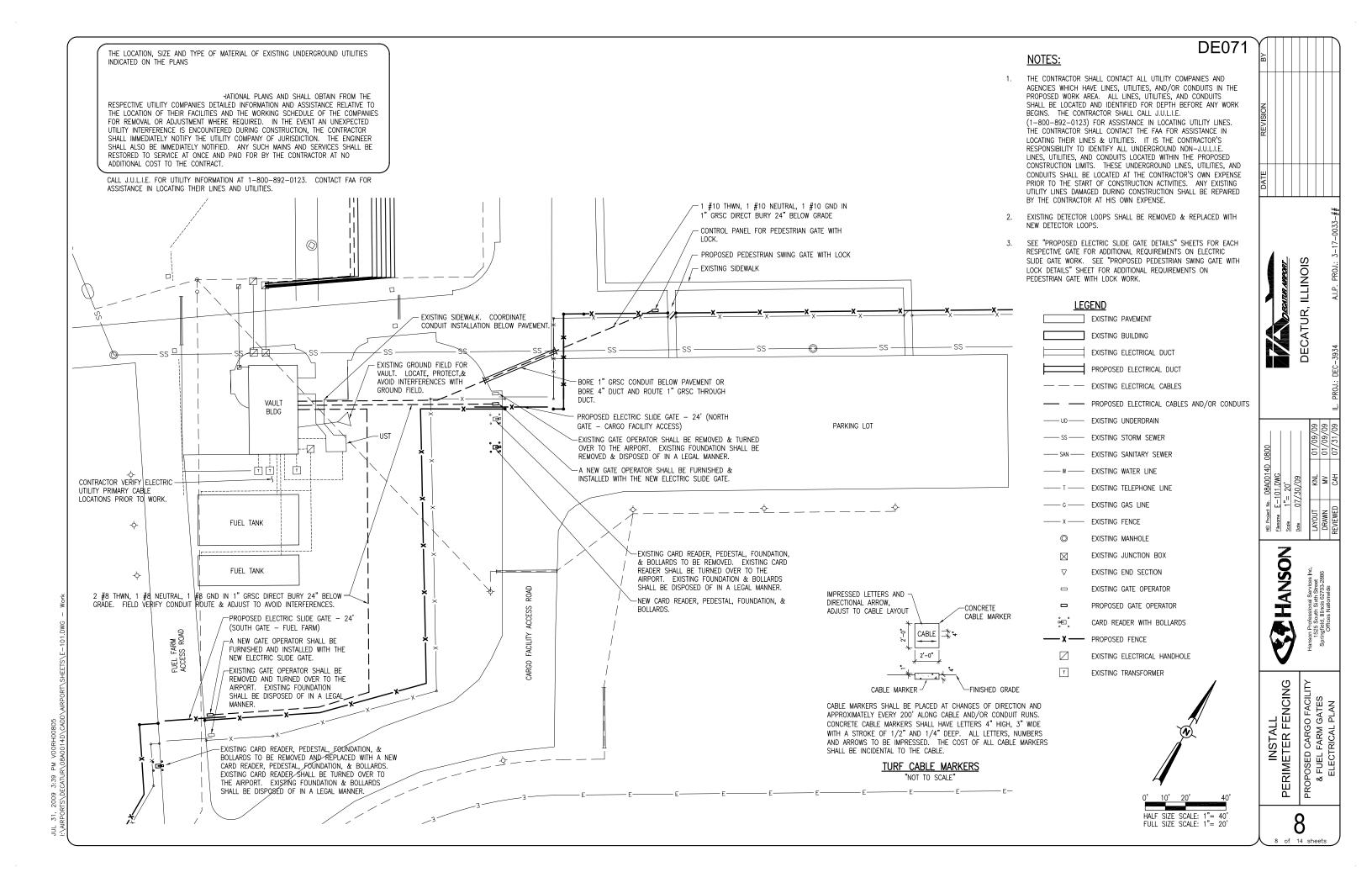
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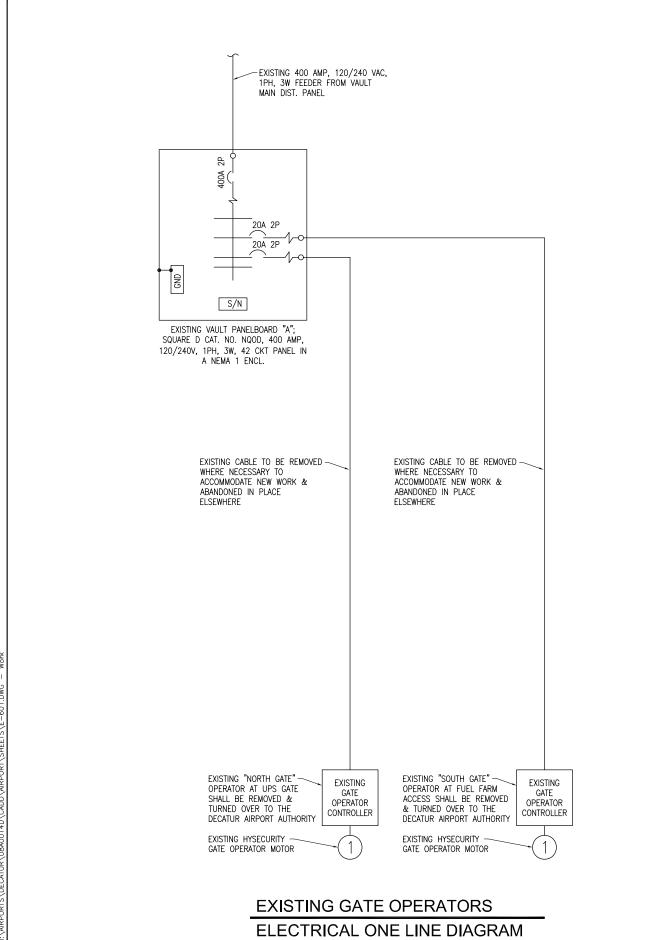
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NOTES:

- SEE "ELECTRICAL LEGEND AND ABBREVIATIONS" SHEET FOR GENERAL NOTES AND REQUIREMENTS.
- 2. REMOVAL OF EACH EXISTING ELECTRIC SLIDE GATE WILL BE PAID FOR UNDER ITEM AR162908 REMOVE ELECTRIC GATE.

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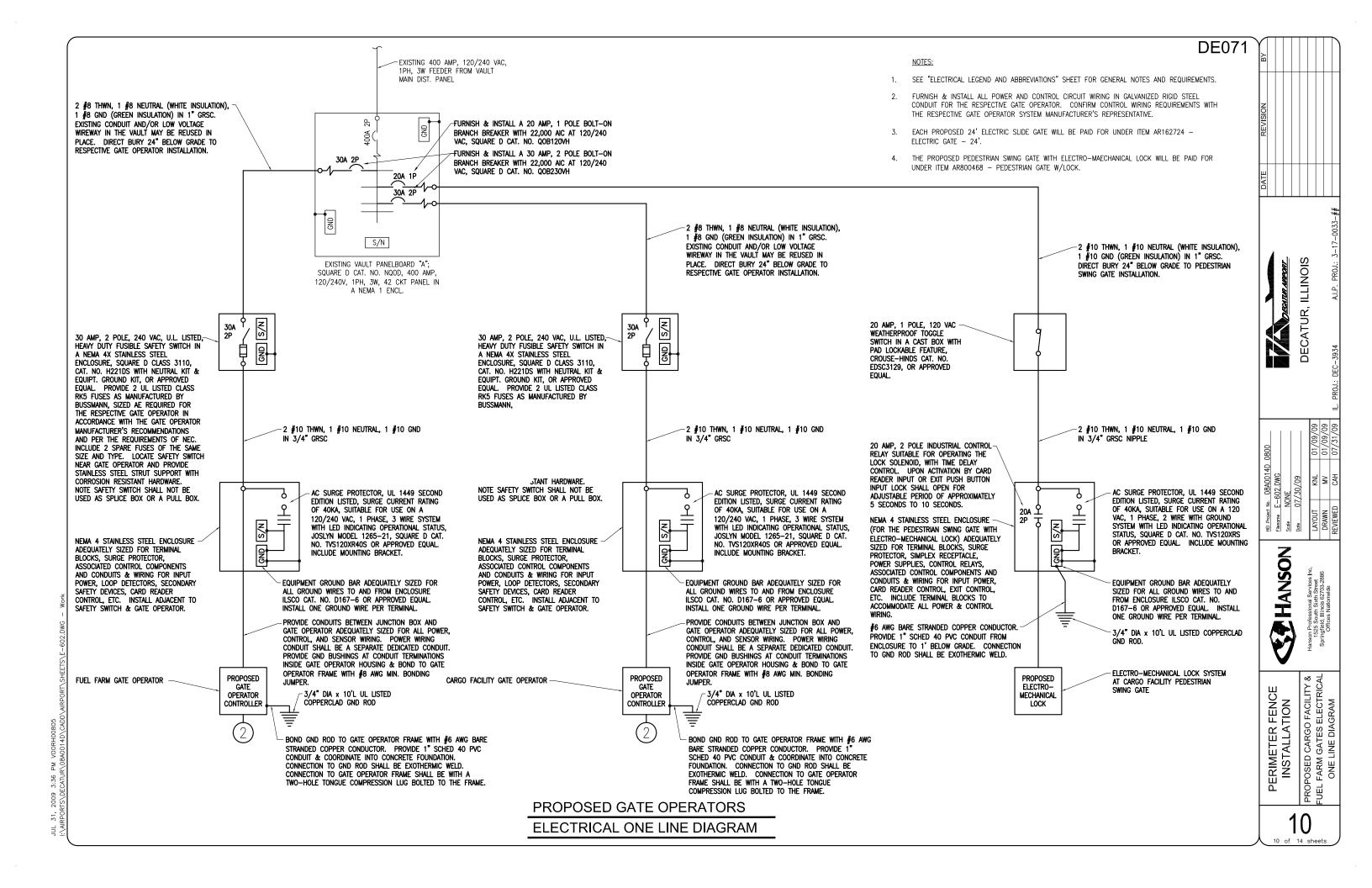
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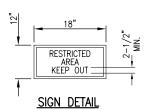
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EXISTING CARGO FACILITY & FUEL FARM GATES ELECTRICAL ONE LINE DIAGRAM

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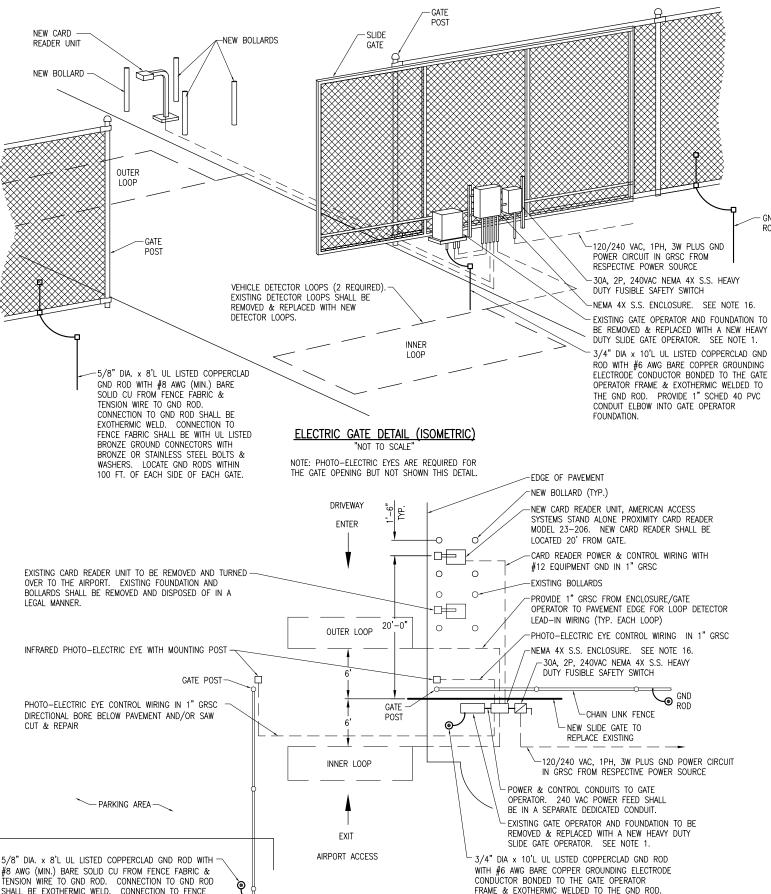




0.08 GA. ALUMINUM ALLOY SHEET LETTERING COLOR SHALL BE RED. EACH GATE SHALL REQUIRE ONE SIGN. EVERY 100' OF FENCE SHALL REQUIRE ONE SIGN.



- SEE SPECIAL PROVISION SPECS FOR REQUIREMENTS ON RESPECTIVE GATE & GATE OPERATOR SYSTEM
- 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. FOUNDATION FOR THE CARD READER ACCESS CONTROL UNIT SHALL BE 48" (MIN.) IN DEPTH, AS DETAILED ON SHEET 14.
- 1" GRS CONDUIT WILL BE REQUIRED BETWEEN THE SLIDE GATE OPERATOR INSTALLATION AND THE CARD READER ACCESS CONTROL UNIT, THE PHOTO-ELECTRIC EYES, 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.
- (RESERVED).
- CONTRACTOR SHALL COORDINATE ANY POWER OUTAGES TO EXISTING EQUIPMENT WITH THE RESPECTIVE OWNER'S REPRESENTATIVE AND THE AIRPORT
- INCLUDE AC SURGE PROTECTOR FOR THE GATE OPERATOR, UL 1449 SECOND EDITION LISTED, SURGE CURRENT RATING OF 40KA, SUITABLE FOR USE ON A 120/240 VAC, 1 PHASE, 3 WIRE SYSTEM WITH LED INDICATING OPERATIONAL STATUS, JOSLYN MODEL 1265-21, SQUARE D CAT. NO. TVS120XR40S OR APPROVED EQUAL. INCLUDE MOUNTING BRACKET.
- 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 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 UL LISTING. ETL LISTING. (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE WILL NOT BE PERMITTED.
- 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
- 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 OPERATING CONDITION
- 14. CONTROL CIRCUIT WIRING SHALL NOT BE ROUTED THROUGH THE SAFETY SWITCH/DISCONNECT.
- INCLUDE CORROSION RESISTANT SUPPORT POSTS AND HARDWARE WITH THE PHOTO-ELECTRIC EYE SAFETY DEVICES.
- 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



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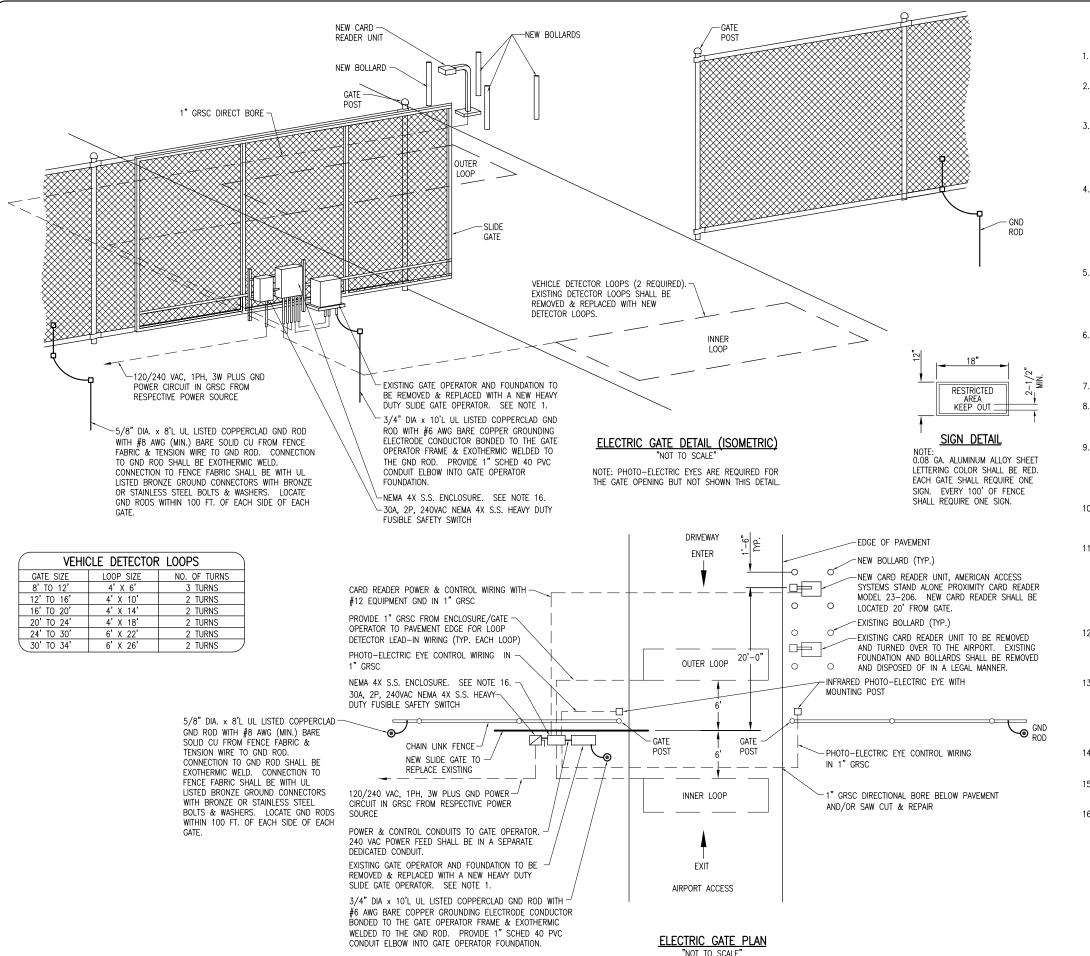
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FALL R FENCING PROPOSED ELECTRIC SLIDE GATE DETAILS - CARGO FACILITY GATE INSTA ETER PERIME

FABRIC SHALL BE WITH UL LISTED BRONZE GROUND CONNECTORS WITH BRONZE OR STAINLESS STEEL BOLTS & WASHERS. LOCATE GND RODS WITHIN 100 FT. OF EACH SIDE OF EACH GATE.

ELECTRIC GATE PLAN "NOT TO SCALE

FRAME & EXOTHERMIC WELDED TO THE GND ROD. PROVIDE 1" SCHED 40 PVC CONDUIT ELBOW INTO GATE OPERATOR FOUNDATION.



# NOTES:

- SEE SPECIAL PROVISION SPECS FOR REQUIREMENTS ON RESPECTIVE GATE & GATE OPERATOR SYSTEM.
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- 6. 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.
- . (RESERVED).
- CONTRACTOR SHALL COORDINATE ANY POWER OUTAGES TO EXISTING EQUIPMENT WITH THE RESPECTIVE OWNER'S REPRESENTATIVE AND THE AIRPORT DIRECTOR.
- 9. INCLUDE AC SURGE PROTECTOR FOR THE GATE OPERATOR, UL 1449 SECOND EDITION LISTED, SURGE CURRENT RATING OF 40KA, SUITABLE FOR USE ON A 120/240 VAC, 1 PHASE, 3 WIRE SYSTEM WITH LED INDICATING OPERATIONAL STATUS, JOSLYN MODEL 1265–21, SQUARE D CAT. NO. TVS120XR40S OR APPROVED EQUAL. INCLUDE MOUNTING BRACKET.
- CONCRETE USED FOR INSTALLING THE GATE OPERATOR, CARD READER, & FENCE SHALL MEET THE REQUIREMENTS OF STRUCTURAL PORTLAND CEMENT CONCRETE ITEM 610.
- 11. 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 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 LOCATION
- 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 OPERATING CONDITION.
- CONTROL CIRCUIT WIRING SHALL NOT BE ROUTED THROUGH THE SAFETY SWITCH/DISCONNECT.
- 5. INCLUDE CORROSION RESISTANT SUPPORT POSTS AND HARDWARE WITH THE PHOTO-ELECTRIC EYE SAFETY DEVICES.
- 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.

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DECATUR, ILLINOIS

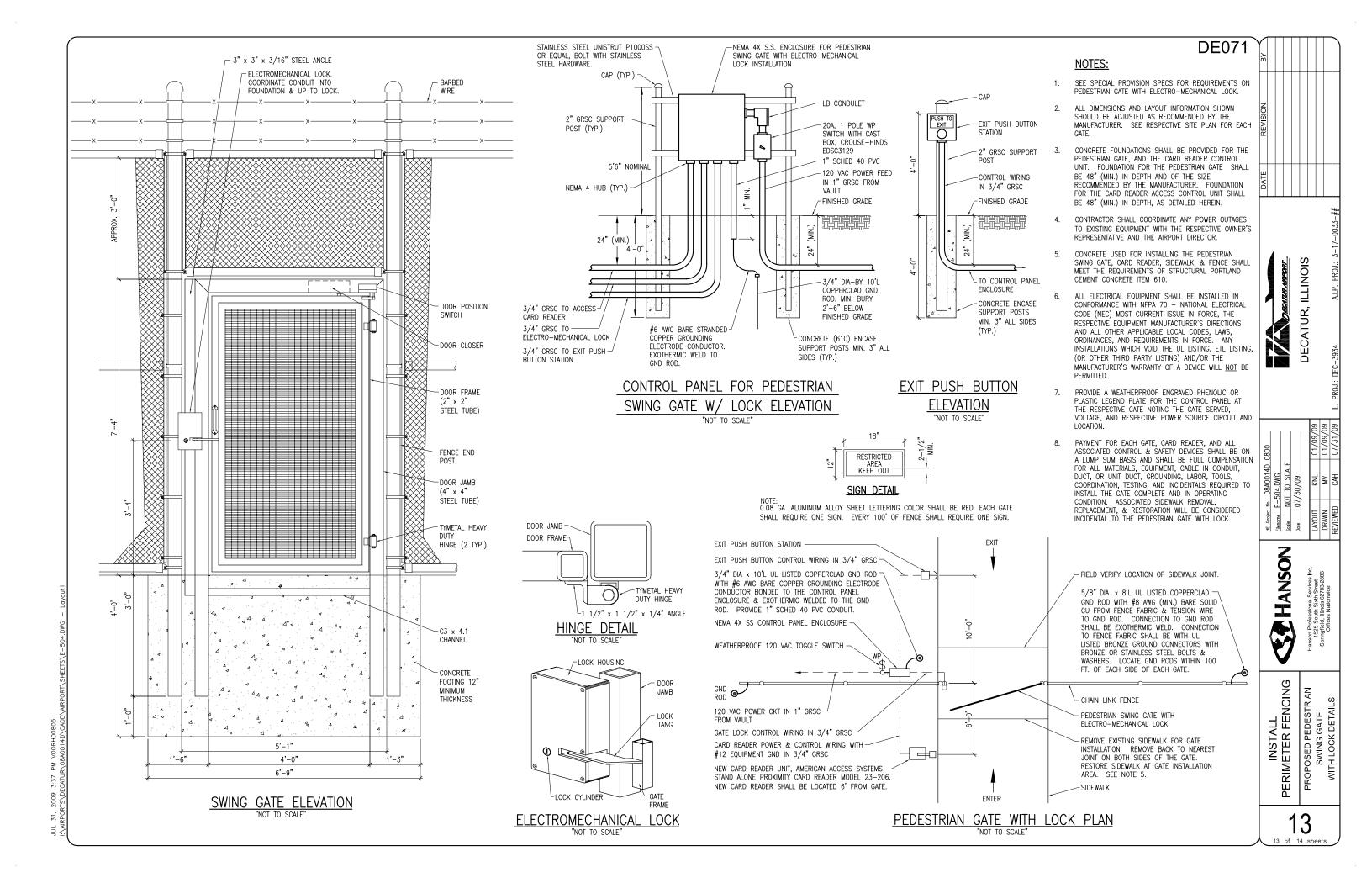
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Hanson Professional Services Inc.
Service State Street

INSTALL
PERIMETER FENCING
PROPOSED ELECTRIC
SLIDE GATE DETAILS
- FUEL FARM GATE

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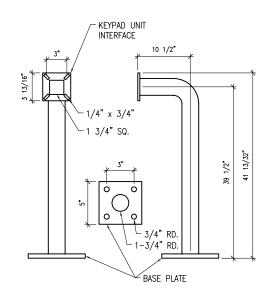
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- 1. THE EXPOSED PORTION OF THE BOLLARD SHALL BE PAINTED YELLOW EPOXY.
- 2. BOLLARD AND ASSOCIATED ITEMS ARE INCIDENTAL TO THE ELECTRIC SLIDING GATE.

# BOLLARD DETAIL

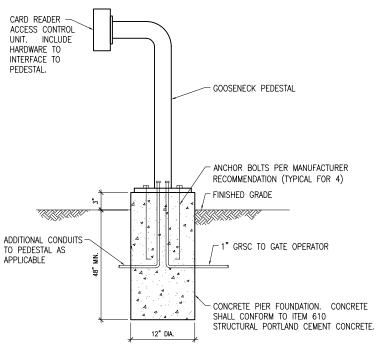
SCALE: NONE



# 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



**NOTES** 

- 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



# **Moving Gate Can Cause** Serious Injury or Death.

**KEEP CLEAR!** 

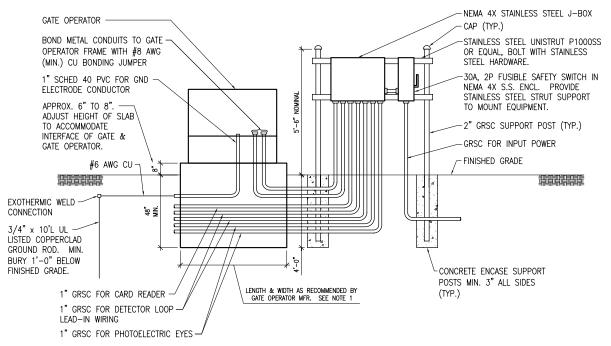
Gate May Move At Any Time. Children Should Not Play Near Gate.

Children Should Not Operate The Gate. Operate Gate Only When In Sight and Free of People and Obstructions. This Gate System for Vehicles Only.

**NOTES** 

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 NO. MX000882, OR EQUAL.

WARNING SIGN DETAIL



- FOUNDATION FOR GATE OPERATOR SHALL BE 48" MIN. IN DEPTH AND OF THE LENGTH & WIDTH RECOMMENDED BY THE MANUFACTURER.
  - COORDINATE CONDUITS INTO FOUNDATION
  - CONFIRM CONDUIT SIZES AND WIRING REQUIREMENTS WITH THE GATE OPERATOR MFR. ADJUST/INCREASE CONDUIT SIZES WHERE APPLICABLE. REQUIREMENTS VARY BETWEEN
- 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 THE NEMA 4, 4X RATING.

# GATE OPERATOR FOUNDATION DETAIL

LEGEND PLATE SCHEDULE						
DEVICE	LABEL					
UPS GATE OPERATOR DISCONNECT	UPS GATE 120/240VAC FED FROM VAULT					
FUEL FARM GATE OPERATOR DISCONNECT	FUEL FARM GATE 120/240VAC FED FROM VAULT					
CONTROL PANEL FOR PEDESTRIAN SWING GATE WITH ELECTRO-MECHANICAL LOCK	SWING GATE LOCK CONTROL PANEL 120VAC FED FROM VAULT					

NOTE: LEGEND PLATES SHALL BE WEATHERPROOF ENGRAVED PLASTIC OR PHENOLIC MATERIAL, 1/4" HIGH BLACK LETTERS ON A WHITE BACKGROUND UNLESS NOTED OTHERWISE. SECURE WITH WEATHERPROOF ADHESIVE AND MACHINE SCREWS. FURNISH ADDITIONAL LEGEND PLATES WHERE REQUIRED BY CODE, FOR ADDITIONAL EQUIPMENT, AS DETAILED HEREIN ON THE PLANS, AND AS NOTED IN THE SPECIAL PROVISION SPECIFICATIONS.

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