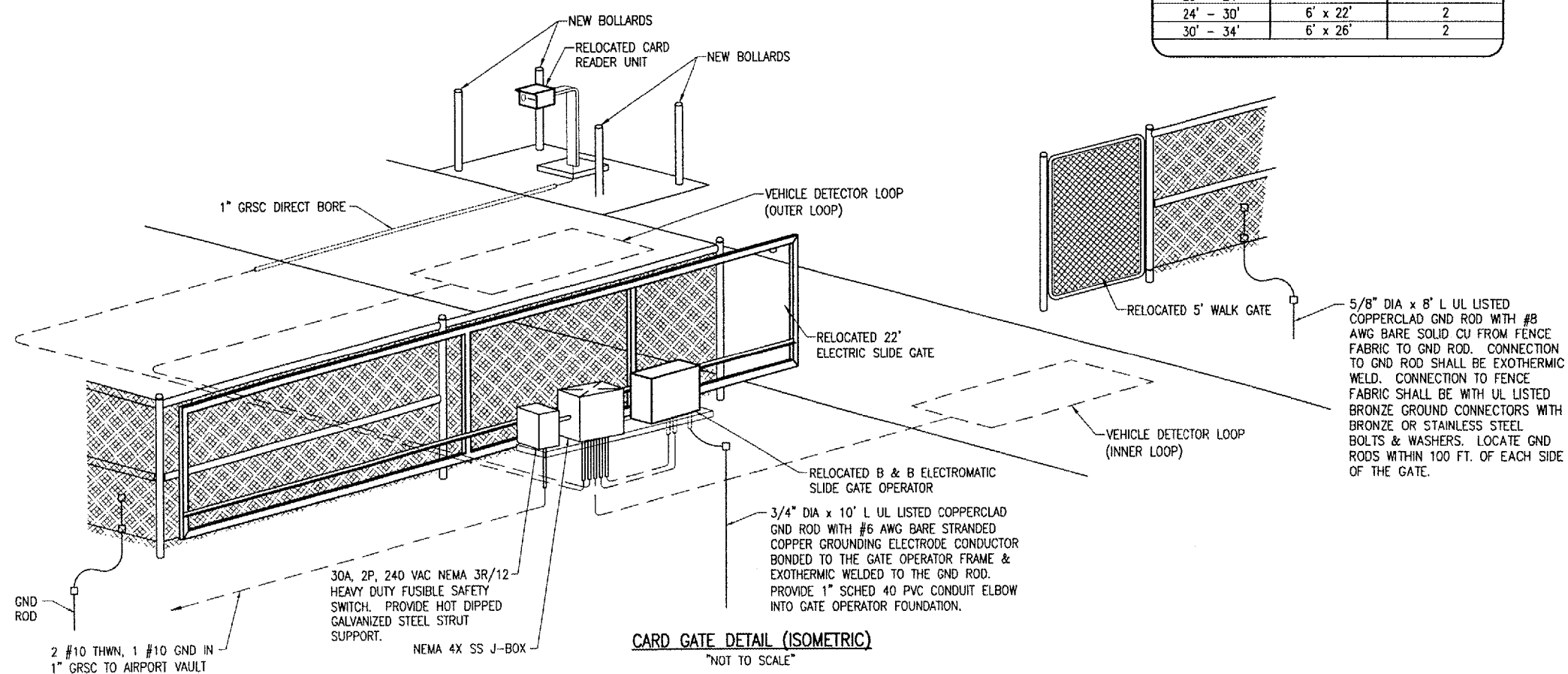


CARD GATE DETAIL (PLAN)
"NOT TO SCALE"

| VEHICLE DETECTOR LOOPS | | |
|------------------------|-----------|--------------|
| GATE SIZE | LOOP SIZE | No. OF TURNS |
| 8' - 12' | 4' x 6' | 3 |
| 12' - 16' | 4' x 10' | 2 |
| 16' - 20' | 4' x 14' | 2 |
| 20' - 24' | 4' x 18' | 2 |
| 24' - 30' | 6' x 22' | 2 |
| 30' - 34' | 6' x 26' | 2 |



CARD GATE DETAIL (ISOMETRIC)
"NOT TO SCALE"

NOTE: PHOTO-ELECTRIC EYES REQUIRED TO BE RELOCATED BUT NOT SHOWN ON THIS DETAIL.

NOTES

- SEE SPECIAL PROVISION SPECIFICATIONS FOR RELOCATION REQUIREMENTS ON GATE & GATE OPERATOR SYSTEM.
- ALL DIMENSIONS AND LAYOUT INFORMATION SHOWN SHOULD BE ADJUSTED AS RECOMMENDED BY THE MANUFACTURER.
- 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 SLIDE GATE, ELECTRIC GATE OPERATOR, AND CARD READER ARE EXISTING, AND SHALL BE RELOCATED AS DETAILED HEREIN. COORDINATE LOCATIONS WITH THE AIRPORT MANAGER.
- CONTRACTOR SHALL COORDINATE ANY POWER OUTAGES TO EXISTING EQUIPMENT WITH THE RESPECTIVE OWNER'S REPRESENTATIVE AND THE AIRPORT MANAGER.
- 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.
- CONCRETE USED FOR INSTALLING THE GATE OPERATOR, CARD READER, & FENCE SHALL MEET THE REQUIREMENTS OF STRUCTURAL PORTLAND CEMENT CONCRETE ITEM AR610.
- CONTRACTOR SHALL FIELD VERIFY & RECORD EXISTING WIRING AND CONNECTIONS TO THE GATE OPERATOR, CARD READER, DETECTOR AMPLIFIERS, PHOTO-ELECTRIC EYES, AND CONTROLS PRIOR TO REMOVING THE GATE.
- 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 LOCATION.
- PAYMENT FOR RELOCATING THE 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, LABOR, TOOLS, COORDINATION, TESTING, AND INCIDENTALS REQUIRED TO RELOCATE THE GATE COMPLETE AND IN OPERATING CONDITION.
- INCLUDE CORROSION RESISTANT SUPPORT POSTS AND HARDWARE WITH PHOTO-ELECTRIC EYE RELOCATIONS.
- CONTROL CIRCUIT WIRING SHALL NOT BE ROUTED THROUGH THE SAFETY SWITCH/DISCONNECT.

| | |
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| BY | |
| REVISION | |
| DATE | |

FLORA AIRPORT
FLORA, ILLINOIS
A.I.P. PROJ.: 3-17-0044-B14
ILL. PROJ.: FDA-3758

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| REV. PROJECT No. 07A0122D-0800 | 12/19/07 |
| EXAMINE R-171FEN.DWG | 12/19/07 |
| SCALE N/A | |
| DATE 01/15/08 | |
| LAYOUT CCC | CAH |
| DRAWN CCC | |
| REVIEWED CAH | 01/25/08 |

HANSON
Hanson Professional Services Inc.
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Springfield, Illinois 62703-2886
Offices Nationwide

EXPAND
HANGAR PAVEMENT
PROPOSED GATE DETAILS

MAR 12, 2008 8:08 AM HAGL0003B2
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