DEPARTMENTAL INPUT CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

| $ \begin{array}{c c} $ | \overline{TR} $\overline{\square}$ So Other | ole Source | □ Bid Waiv | ver □ | Emergency | Previous (7360 G WAGE APPLIE | | Project No. ES ⊠ NO |
|---|---|---------------------|---------------------|----------|---|--------------------------------|--------------------------------|--|
| Requisition No./I | | Y145A | | Т | ERM OF CONTRAC | (T 2 C 1 | Andreas or the other constants | |
| Requisition /Proj | MATERIAL STATE OF THE STATE OF | | cing - Home | | | | HOW! GE | |
| Description: E | nhancemen | t will includ | e matrix ca | rd read | lers for access | s controls at | all vehi | cular and |
| Issuing Departme | ent: MDA | D | Contact | Raym | ond Lee | - | Phone: | 305-876-0764 |
| Estimate Cost: | CST: \$66 Total: \$66 | | Person: Funding So | ource: | GENERAI Capital - Avia Split with FD0 | tion Bonds (C | | OTHER |
| Commodity Cod | les: | | /Project History | | YSIS us purchases three urchase with no pr | | | |
| | | <u>E</u> 2 | <u> XISTING</u> | | 2^{ND} YE | EAR | | 3 RD YEAR |
| Contractor: | | | | | | | | |
| Small Business 1 | Enterprise: | DBE | | | | | | |
| Contract Value: | | | | | | | | |
| Comments: | | | | | | | | |
| Continued on and | other page (s) | : ☐ Yes ☐ Set-aside | | MEN] | DATIONS | Bid preference | | Selection factor |
| SBE | | Set-aside | | - CST | | ord preference | | Selection factor |
| Basis of recommendation: | opportu | nities provio | led while co | onsideri | ng the highly | specialized | nature o | of subcontracting of a portion of the competition. See |
| Signed: | | | | Da | ate sent to SBD | : | | |
| | | | | Da | ite returned to I | OPM: | | Revised April 2005 |

HOMESTEAD GENERAL AVIATION AIRPORT





MIAMI DADE COUNTY AVIATION DEPARTMENT MIAMI, FLORIDA

SECURITY FENCING ELECTRICAL AND SECURITY DESIGN

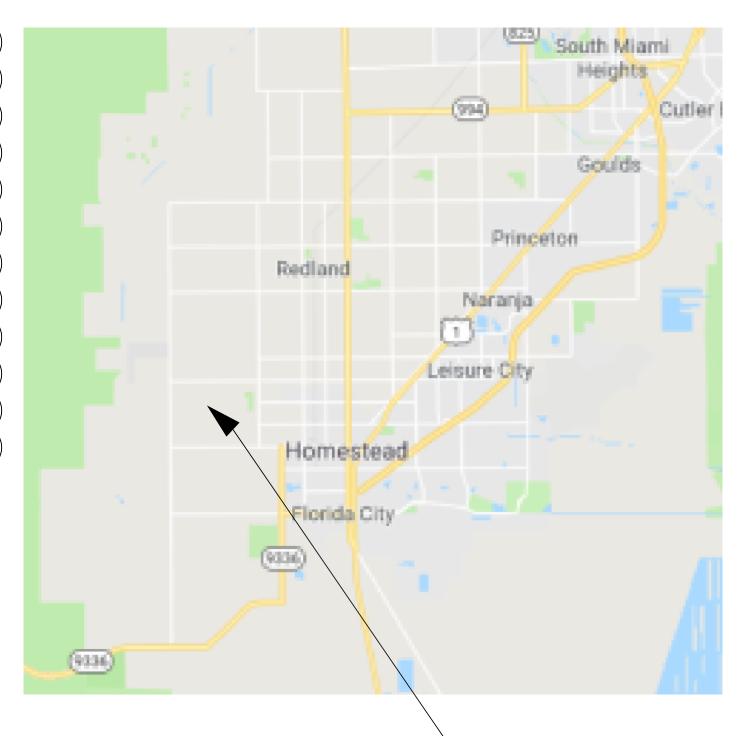
MDAD PROJECT NO: Y145A APRIL 02, 2021

Daniella Levine Cava - Miami Dade County Mayor José "Pepe" Diaz - Chairman (District 12) Oliver G. Gilbert, III - Vice Chairman (District 1)

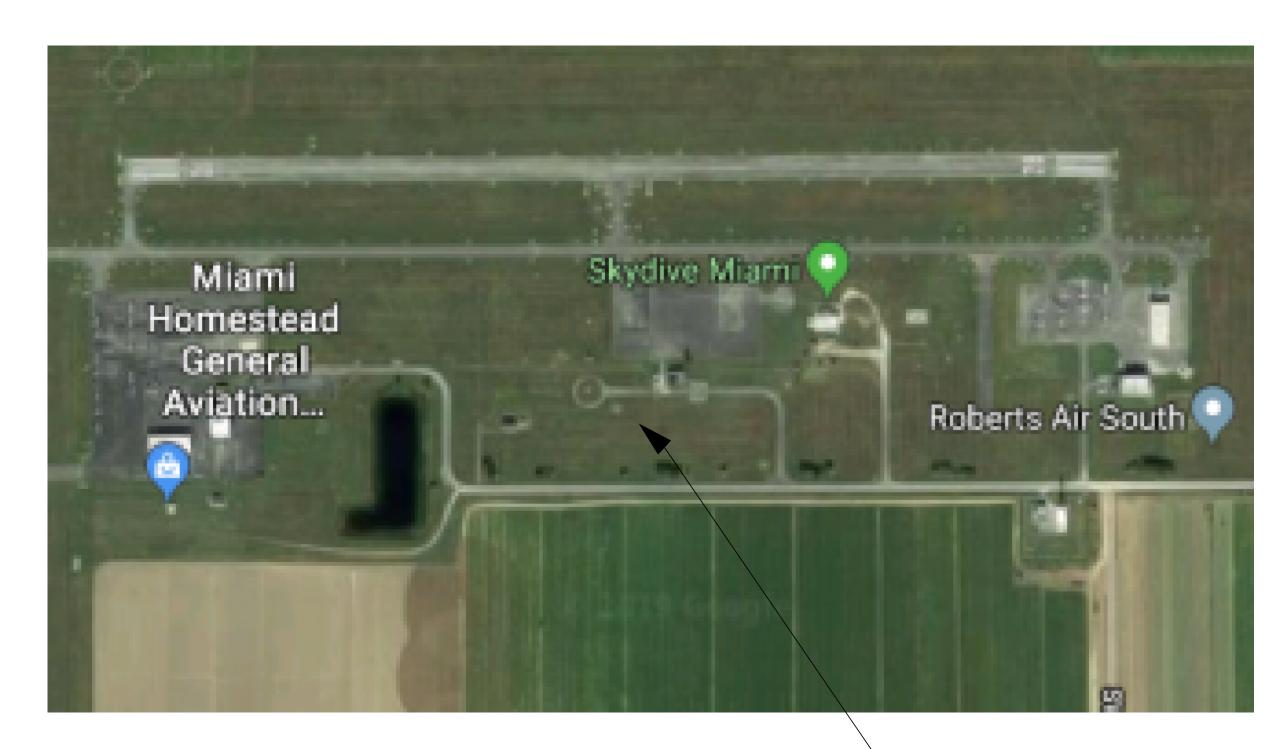
District 2 - Jean Monestime District 5 - Eileen Higgins District 8 - Danielle Cohen Higgins District 11 - Joe A. Martinez District 3 - Keon Hardemon District 6 - Rebeca Sosa District 9 - Kionne L. McGhee District 13 - Sen. René Garcia District 4 - Sally A. Heyman District 7 - Raquel A. Regalado District 10 - Sen. Javier D. Souto

Clerk Of Courts - Harvey Ruvin Property Appraiser - Pedro J. Garcia

| GATE PER | MITS |
|--------------|--|
| | ATES BELOW IS UNDER A SEPARATE PERMIT PROCESS NUMBER. SE OF EACH GROUP IS FROM A SEPARATE BUILDING. |
| GATES | POWER SOURCE |
| G1 | NEW SERVICE |
| G2 & G3 | MAINTENANCE BLDG. |
| G4, G5, & G6 | ADMINISTRATION BLDG. |
| G7 | PUMP HOUSE BLDG. |



VICINITY_MAP



| PICTORIAL_SITE_MAP | |
|--------------------|--|
| | |

| | SHEET INDEX | | |
|--------|--|-------|-----------|
| SHEET# | DESCRIPTION | ISSUE | DATE |
| GN-00 | COVER SHEET | • | 12/2/2019 |
| TY1-00 | OVERALL SITE PLAN, AND SCOPE | • | 12/2/2019 |
| TY1-01 | TECHNOLOGY AND POWER SITE PLAN | • | 12/2/2019 |
| TY1-02 | TECHNOLOGY AND POWER SITE PLAN | • | 12/2/2019 |
| TY1-03 | TECHNOLOGY AND POWER SITE PLAN | • | 12/2/2019 |
| TY1-04 | TECHNOLOGY AND POWER SITE PLAN | • | 12/2/2019 |
| TY1-05 | TECHNOLOGY AND POWER SITE PLAN | • | 12/2/2019 |
| TY1-06 | TECHNOLOGY AND POWER SITE PLAN | • | 12/2/2019 |
| TY1-07 | TECHNOLOGY AND POWER SITE PLAN | • | 12/2/2019 |
| TY4-01 | ENLARGED PLAN GATES AREA | • | 12/2/2019 |
| TY4-02 | ENLARGED PLAN GATE G5 AREA | • | 12/2/2019 |
| TY7-01 | POWER,CONTROL, AND SECURITY GATE DETAILS | • | 12/2/2019 |
| TY7-02 | DETAILS | • | 12/2/2019 |
| TY7-03 | WIRING CONNECTIVITY DETAILS | • | 12/2/2019 |
| TY8-01 | SCHEDULES | • | 12/2/2019 |



6 SOUTH OLD ORCHARD WEBSTER GROVES, MO 631 T: 314.918.8383 F: 314.918.1766

201 ALHAMBRA CIRCLE, SUITE 900 CORAL GABLES, FL. 33134 T: 305.477.8338 F: 305.477.3378

Submital: CONSTRUCTION DOCUMENTS
APRIL 2021

PREPARED FOR:

MIAMI INTERNATIONAL AIRPORT
P.O. BOX 99-6610

MIAMI FLORIDA 33299-6610

SIGN & SEAL BY:

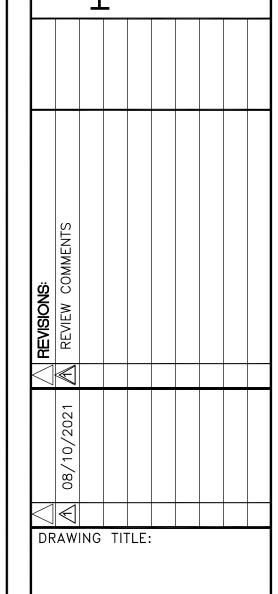
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CORAL GABLES, FL. 33134

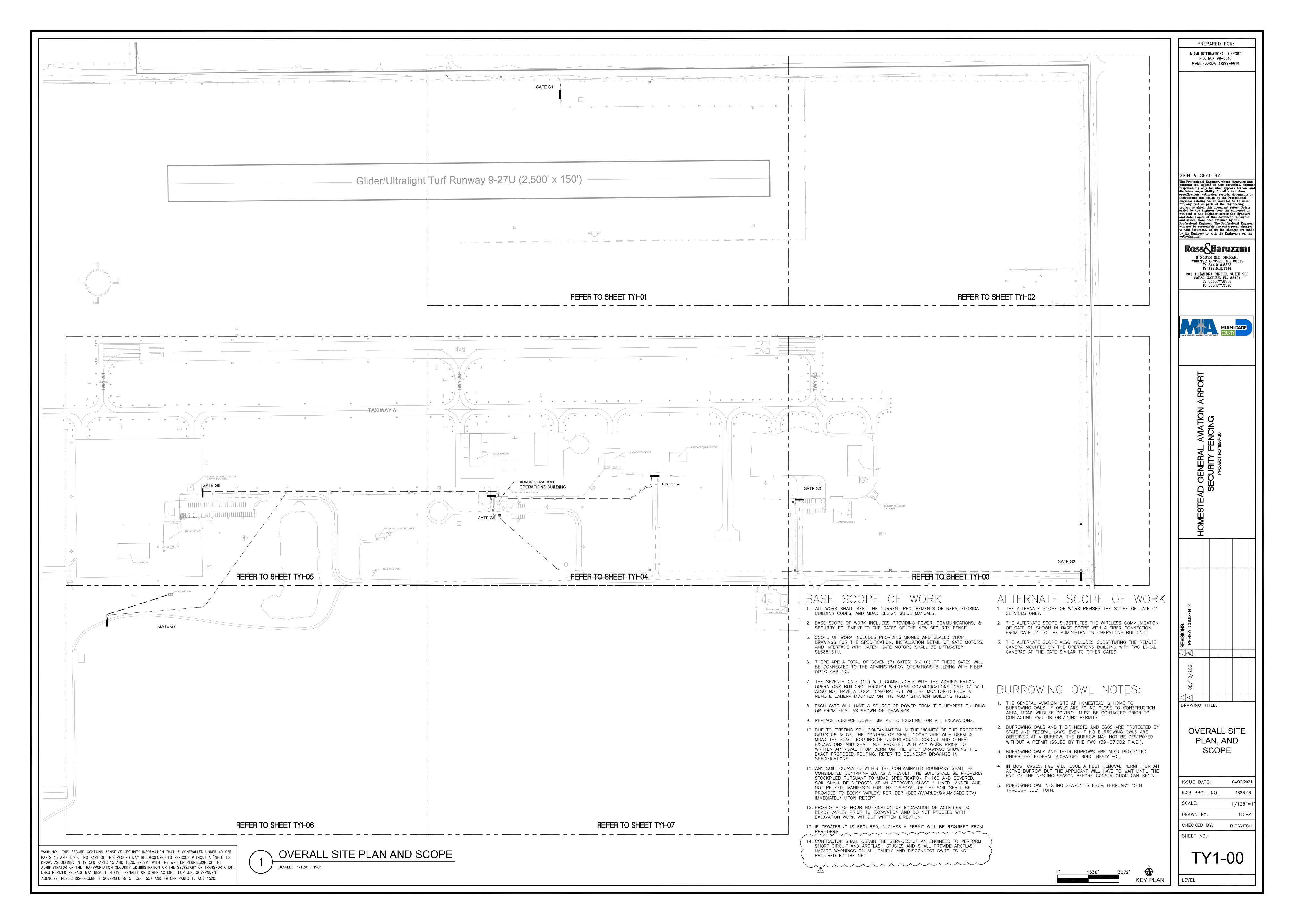


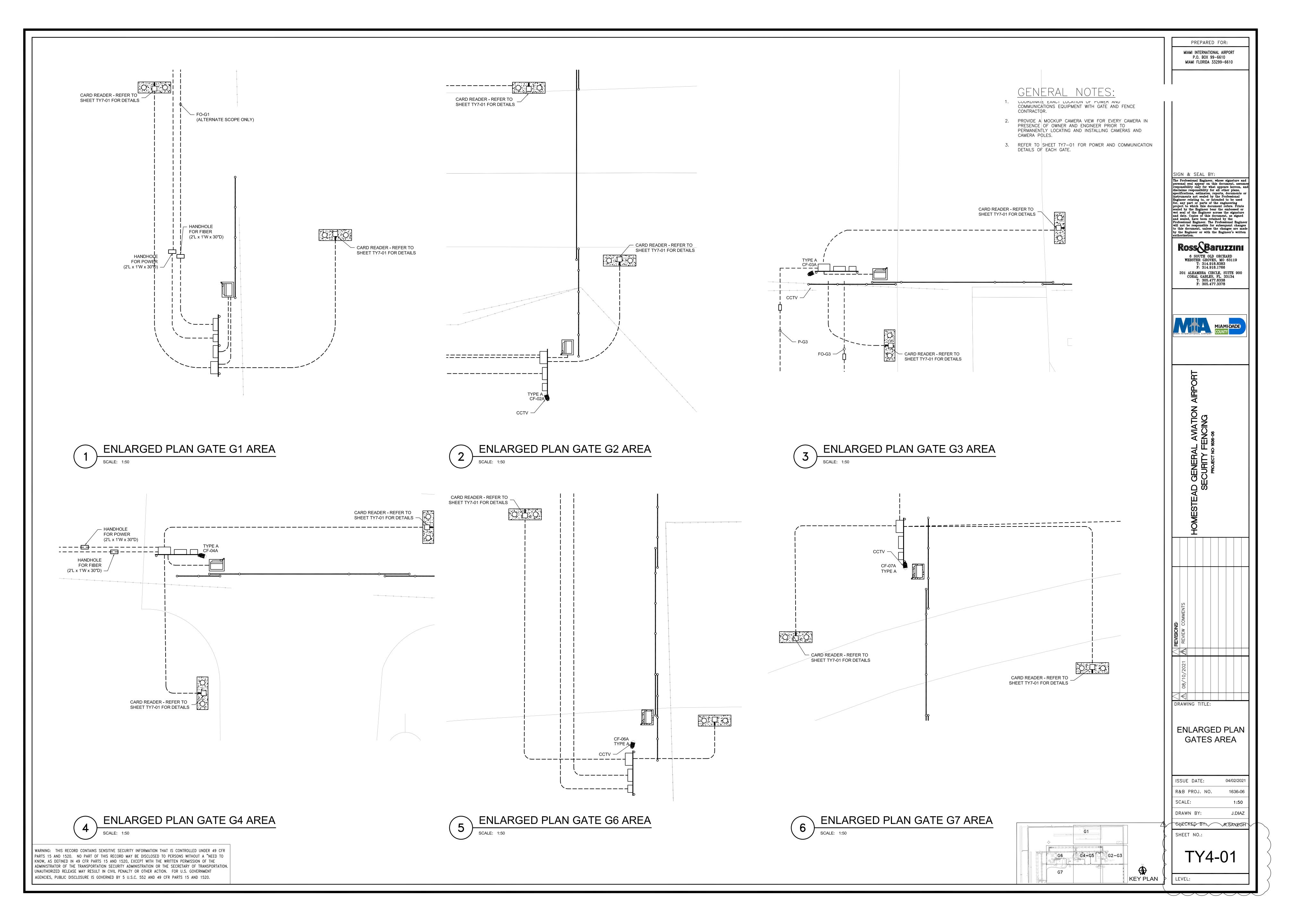
OMESTEAD GENERAL AVIATION AIRPORT
SECURITY FENCING
PROJECT NO: 1636-06

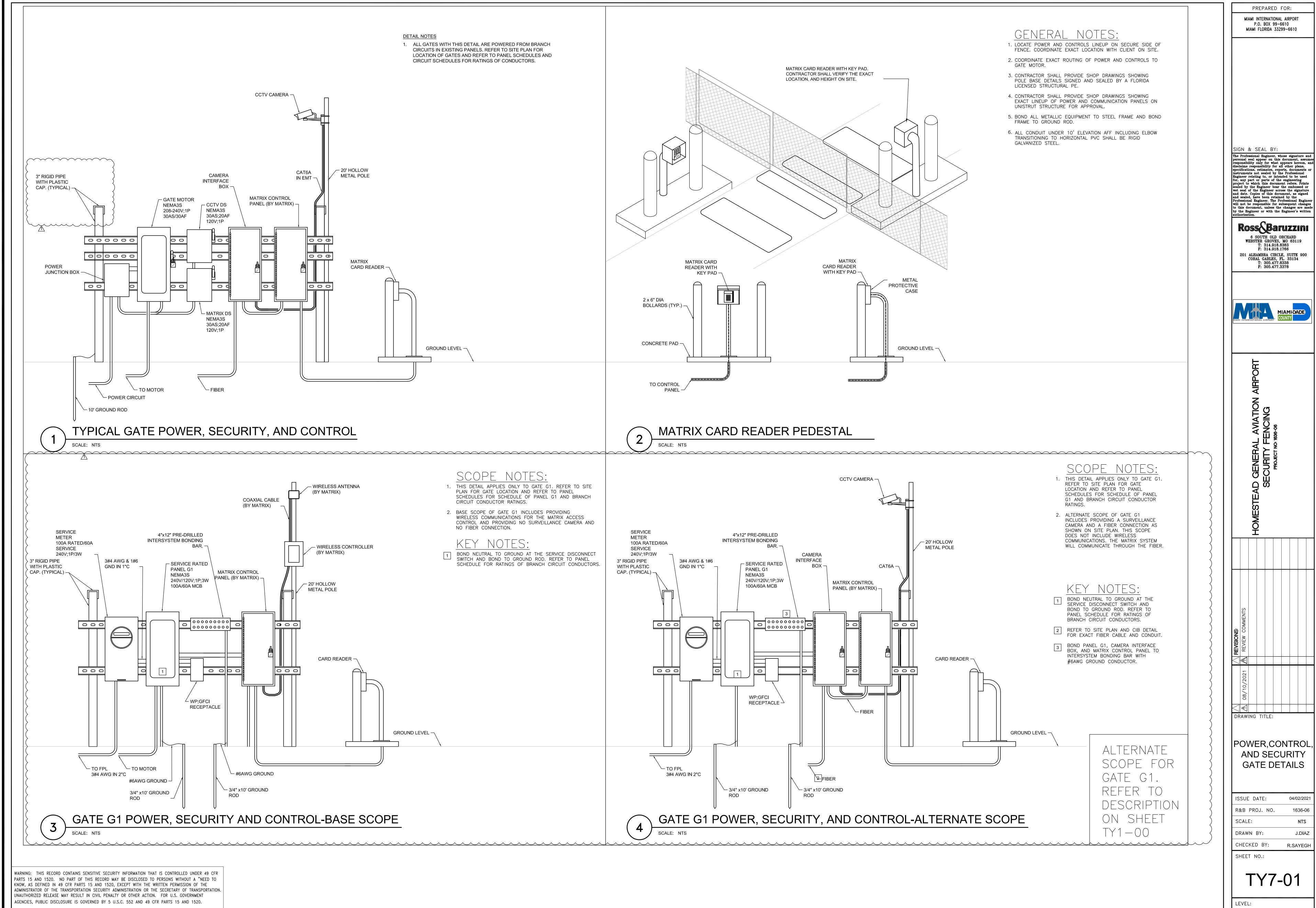


| ISSUE DATE: | 04/02/2021 |
|---------------|------------|
| R&B PROJ. NO. | 1636-06 |
| SCALE: | |
| DRAWN BY: | J.DIAZ |
| CHECKED BY: | R.SAYEGH |
| SHEET NO.: | |
| | |

LEVEL:

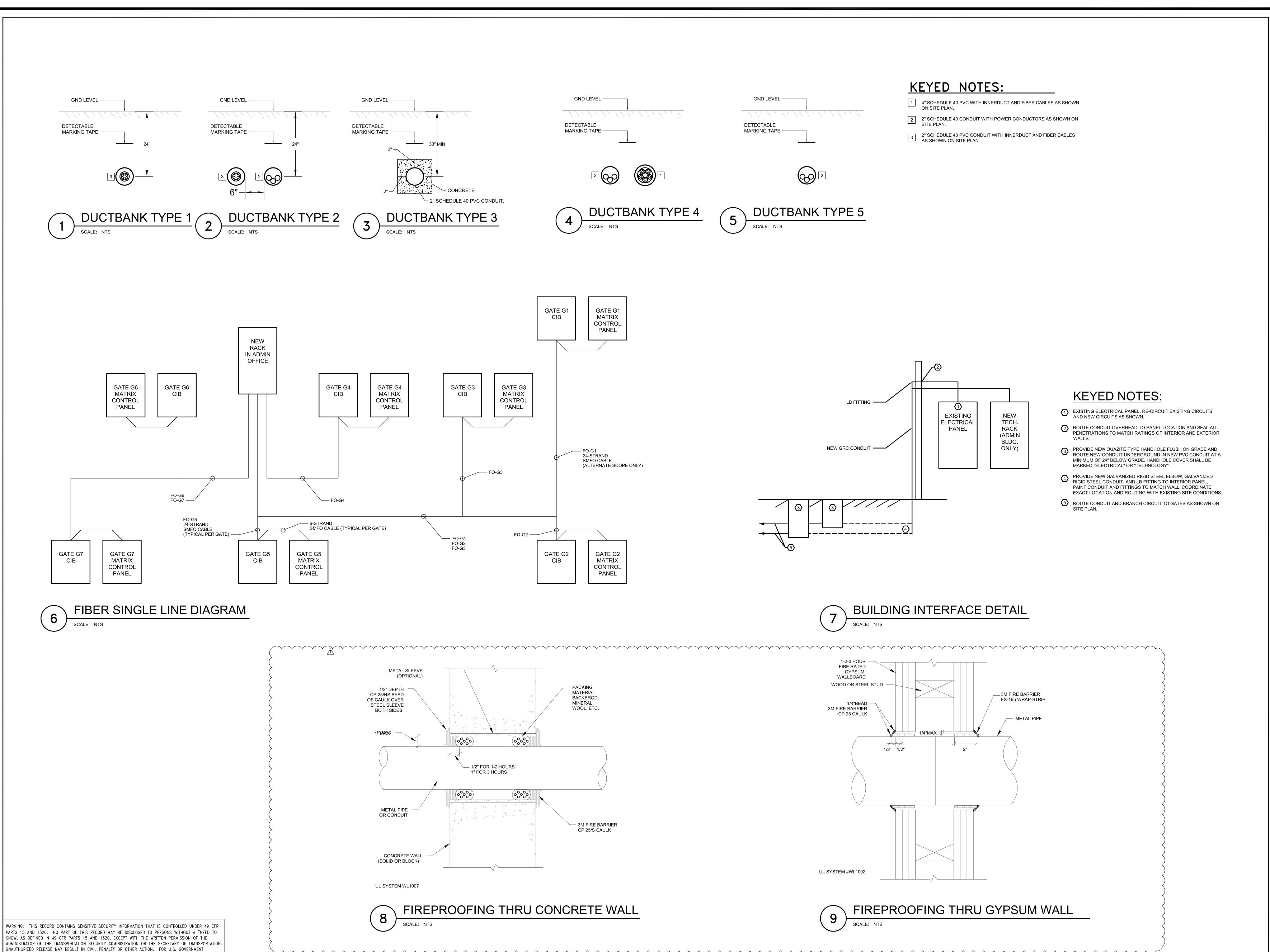








1636-06 J.DIAZ R.SAYEGH



AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

PREPARED FOR: MIAMI INTERNATIONAL AIRPORT P.O. BOX 99-6610 MIAMI FLORIDA 33299-6610

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Ross Baruzzini 6 SOUTH OLD ORCHARD WEBSTER GROVES, MO 63119 T: 314.918.8383 F: 314.918.1766 201 ALHAMBRA CIRCLE, SUITE 900 CORAL GABLES, FL. 33134 T: 305.477.8338 F: 305.477.3378



DRAWING TITLE:

DETAILS

ISSUE DATE: 04/02/2021 1636-06 R&B PROJ. NO. SCALE: NTS DRAWN BY: J.DIAZ CHECKED BY:

R.SAYEGH SHEET NO.:

| DANEL E | | | | | | | | | 2 | 25 AMDS (MCD) (MLO) |
|-------------------------------|--------------|------------|--------------|----------|-------|----------|--------------|------------|---------------|------------------------------|
| PANEL <u>E</u> | | | | - | | | - | | | 25 AMPS (MCB) (MLO) |
| LOCATION MAIN ADMINISTRA | TION BUI | LDING | } | - | | | | 120/2 | <u>240</u> VO | LTS 1_ ø W |
| | | | | | | | MOl | JNT | ING <u>wa</u> | LL |
| DESCRIPTION | VOLT AMPS | BRKR. SIZE | NO. OF POLES | POLE NO. | PHASE | POLE NO. | NO. OF POLES | BRKR. SIZE | VOLT AMPS | DESCRIPTION |
| LGTS REAR OFFICE / STORAGE | | 20 | 1 | 1 | Α | 2 | 1 | 20 | | FLOOD LGTS BLD #6 NORTH SIDE |
| LGTS BTH RMS, MECH RM & CORR. | | 20 | 1 | 3 | В | 4 | 1 | 20 | | FLOOD LGTS BLD #6 WEST SIDE |
| LGTS LOBBY & PORCH | | 20 | 1 | 5 | Α | 6 | 1 | 20 | | RECEPT REFRIGERATOR |
| RECEPTS TELEPHONE B / BOARD | | 20 | 1 | 7 | В | 8 | 1 | 20 | | WIREMOULD OPP. OFF |
| RECEPTS TELEPHONE B / BOARD | | 20 | 1 | 9 | Α | 10 | 1 | 20 | | WIREMOULD OPP. OFF |
| RECEPTS TREAR OFF (COMP) | | 20 | 1 | 11 | В | 12 | 1 | 20 | | WIREMOULD OPP. OFF |
| RECEPTS TREAR OFF | | 20 | 1 | 13 | Α | 14 | 1 | 20 | | WIREMOULD OPP. OFF |
| GATE 4 | 1320 | 20 | 2 | 15 | В | 16 | 2 | 20 | | RACK UPS |
| | 1320 | | | 17 | Α | 18 | | | | |
| SPARE | | 20 | 1 | 19 | В | 20 | 1 | 20 | | BLOCK HTR. GEN RM |
| A/C COMPRESSOR (outside) | | 50 | 1 | 21 | Α | 22 | 1 | 20 | | BATTERY CHARGER |
| AIR FIELD LIGHTING COMP UPS | | 20 | 1 | 23 | В | 24 | 1 | 20 | | RECEPT. / LGTS. GEB. RM |
| GATE 5 | 1320 | 20 | 2 | 25 | Α | 26 | 1 | 20 | | FDOT GPS / AIRFIELD PC |
| | 1320 | | | 27 | В | 28 | 1 | 20 | | RECEPT SMALL APP |
| LGTS / RECEPT. SHED | | 20 | 1 | 29 | А | 30 | 1 | 20 | | PHOTOCELL / LGT CONTACTOR |
| TOTAL VOLT AMPS | ~A = | | | • | | • | | | ~B = | TOTAL VOLT AMPS |

| PANEL A | | | | - | | | _ | | 2 | 25 AMPS (MCB) (MLO) |
|--------------------|--------------|------------|--------------|----------|-------|----------|--------------|------------|---------------|---------------------|
| LOCATION MAINTENAN | CE BUILDING | | | - | | | | 120/2 | <u>240</u> VO | LTS 1_ ø W |
| | | | | | | | MOI | JNT | ING <u>wa</u> | LL |
| DESCRIPTION | VOLT AMPS | BRKR. SIZE | NO. OF POLES | POLE NO. | PHASE | POLE NO. | NO. OF POLES | BRKR. SIZE | VOLT AMPS | DESCRIPTION |
| EXISTING | | | | 1 | Α | 2 | 1 | 100 | | MAIN BREAKER |
| EXISTING | | 70 | 1 | 3 | В | 4 | | | | SPARE |
| EXISTING | | | | 5 | Α | 6 | 1 | 30 | | SPARE |
| EXISTING | | 30 | 1 | 7 | В | 8 | | | | SPARE |
| EXISTING | | 20 | 1 | 9 | Α | 10 | 1 | 30 | | AIR COMPRESSOR |
| EXISTING | | 20 | 1 | 11 | В | 12 | | | | SPARE |
| EXISTING | | 20 | 1 | 13 | Α | 14 | 1 | 30 | | SPARE |
| EXISTING | | 20 | 1 | 15 | В | 16 | | | | SPARE |
| EXISTING | | 20 | 1 | 17 | Α | 18 | 1 | 30 | | SPARE |
| EXISTING | | 20 | 1 | 19 | В | 20 | | | | SPARE |
| EXISTING | | 20 | 1 | 21 | Α | 22 | 1 | 20 | | BATTERY CHARGER |
| EXISTING | | 20 | 1 | 23 | В | 24 | 1 | 20 | | BLOCK HEAT |
| EXISTING | | 20 | 1 | 25 | Α | 26 | 2 | 20 | 1320 | GATE 3 |
| GATE 2 | 1320 | 20 | 2 | 27 | В | 28 | | | 1320 | |
| | 1320 | | | 29 | A | 30 | 1 | | | SPARE |
| TOTAL VOLT AMPS | ~A = | | | | | | | | ~B = | TOTAL VOLT AMF |

| PANEL X | | | | - | | | _ | | | <u>100</u> AMP | S (MCB) | (MLO) |
|--------------------|--------------|------------|--------------|----------|-------|----------|--------------|------------|-----------------|----------------|------------|----------|
| LOCATION PUMP HOUS | E EXTERIOR | | | - | | | | 120 | <u>/240</u> VO | LTS | 1_ Ø | W |
| | | | | | | | MOl | JNT | ING <u>: PO</u> | LE | | |
| DESCRIPTION | VOLT AMPS | BRKR. SIZE | NO. OF POLES | POLE NO. | PHASE | POLE NO. | NO. OF POLES | BRKR. SIZE | VOLT AMPS | D | ESCRIPTION | |
| SPARE | | 15 | 1 | 1 | Α | 2 | 1 | 20 | | SPARE | | |
| SPARE | | 15 | 1 | 3 | В | 4 | 1 | 15 | | VIS | | |
| SPARE | | 15 | 1 | 5 | Α | 6 | 1 | 15 | | GFI | | |
| GATE 6 | 1320 | 20 | 2 | 7 | В | 8 | 2 | 20 | 1320 | GATE 7 | | |
| | 1320 | | | 9 | Α | 10 | | | 1320 | | | |
| SPARE | | | | 11 | В | 12 | | | | SPARE | | |
| TOTAL VOLT AMPS | ~A = | _ | | | | | | | ~B = | | TOTAL V | OLT AMPS |



| PANEL G1 (BASE SCOPE) | | | | - | | | _ | | 60A M | ICB AMPS (MCB) (MLO) | |
|---|-----------------------------|---------------|--------------|------------|---------------------|---------------|----------------|---------------------------------------|---|--|--|
| LOCATION GATE G1 UNISTRUT | | | | | 120/240_VOLTS1_Ø3_W | | | | | | |
| | | | | | | | | | ING: UN | | |
| | | 1 | | | | | | | | | |
| DESCRIPTION | VOLT AMPS | BRKR. SIZE | NO. OF POLES | POLE NO. | PHASE | POLE NO. | NO. OF POLES | BRKR. SIZE | VOLT AMPS | DESCRIPTION | |
| GATE MOTOR | 720 | 20 | 2 | 1 | Α | 2 | 1 | 20 | 600 | MATRIX CONTROL PANEL | |
| GATE MOTOR | 720 | | | 3 | В | 4 | 1 | 20 | 180 | GFCI BREAKER | |
| SPARE | | 20 | 1 | 5 | Α | 6 | 1 | 20 | | SPARE | |
| SPACE | | 20 | 1 | 7 | В | 8 | 1 | 20 | | SPACE | |
| SPACE | | 20 | | 9 | Α | 10 | | | | SPACE | |
| | | _ | | | | | | | | | |
| SPACE | | 20 | | 11 | В | 12 | | | | SPACE | |
| | ~A = <u>14</u> | | | 11 | В | 12 | | | ~B = <u>780</u> | | |
| SPACE TOTAL VOLT AMPS PANEL G1 (ALTERNATE S LOCATION GATE G1 UNIS | COPE) | | | | В | 12 | | | 60A M | TOTAL VOLT AMPS ICB AMPS (MCB) (MLO) LTS1 Ø3 W | |
| TOTAL VOLT AMPS PANEL G1 (ALTERNATE S | COPE) | | | | В | | MOL | 120/ | 60A M | TOTAL VOLT AMPS ICB_AMPS (MCB) (MLO) LTS1 Ø3 W | |
| TOTAL VOLT AMPS PANEL G1 (ALTERNATE S | COPE) | | NO. OF POLES | POLE NO. | BHASE | | NO. OF POLES S | 120/ | 60A M /240_ VOI | TOTAL VOLT AMPS ICB_AMPS (MCB) (MLO) LTS1 Ø3 W | |
| PANEL G1 (ALTERNATE S LOCATION GATE G1 UNIS | COPE) STRUT | 3ZIS | O. OF | OLE NO. | | NO. | OF POLES | 120/ J N T 3ZIS | 60A M /240 VOI ING: UNI VOLT | TOTAL VOLT AMPS ICB AMPS (MCB) (MLO) LTS1 ø3 W ISTRUT | |
| PANEL G1 (ALTERNATE S) LOCATION GATE G1 UNIS DESCRIPTION GATE MOTOR | COPE) STRUT VOLT AMPS | BRKR. SIZE | NO. OF | OLE NO. | PHASE | POLE NO. | NO. OF POLES | BRKR. SIZE Z 7 | 60A M 240 VOI ING: UNI VOLT AMPS | TOTAL VOLT AMPS ICB AMPS (MCB) (MLO) LTS1 ø3 W ISTRUT DESCRIPTION | |
| PANEL G1 (ALTERNATE SELECTION LOCATION GATE G1 UNIS | COPE) STRUT VOLT AMPS 720 | BRKR. SIZE | NO. OF | 1 POLE NO. | A PHASE | 2 POLE NO. | 1 NO. OF POLES | 02 BRKR. SIZE Z | 60A M /240 VOI ING: UNI VOLT AMPS | TOTAL VOLT AMPS ICB AMPS (MCB) (MLO) LTS1 ø3 W ISTRUT DESCRIPTION MATRIX CONTROL PANEL | |
| TOTAL VOLT AMPS PANEL G1 (ALTERNATE S LOCATION GATE G1 UNIS | COPE) STRUT VOLT AMPS 720 | 40 BRKR. SIZE | 2 NO. OF | DOLE NO. | B PHASE | 2 4 | 1 NO. OF POLES | 120/ JN T N T 20 20 | 60A M /240 VOI ING: UNI VOLT AMPS 600 180 | TOTAL VOLT AMPS ICB_ AMPS (MCB) (MLO) LTS1 ø3 W ISTRUT DESCRIPTION MATRIX CONTROL PANEL GFCI BREAKER | |
| PANEL G1 (ALTERNATE S LOCATION GATE G1 UNIS DESCRIPTION GATE MOTOR GATE MOTOR SPARE | COPE) STRUT VOLT AMPS 720 | 20 20 | ON 2 | | B A BHASE | ON 3 POLE NO. | NO. OF POLES | 120/ JN T N T 20 20 20 | 60A M /240 VOI ING: UNI VOLT AMPS 600 180 | TOTAL VOLT AMPS ICB_ AMPS (MCB) (MLO) LTS1 Ø3 W ISTRUT DESCRIPTION MATRIX CONTROL PANEL GFCI BREAKER CAMERA INTERFACE BOX | |

20 | 11 | B | 12 |

 $\sim A = 1440$

SPACE

TOTAL VOLT AMPS

 \sim B = 1380

SPACE

TOTAL VOLT AMPS

| TYPICAL GATE LOAD CALCULATION | | | | | | | | | |
|-------------------------------|---------|---------|----------|-----------|--|--|--|--|--|
| LOAD | RATING | VOLTAGE | AMPERAGE | POWER (VA | | | | | |
| GATE MOTOR | 1-1/2HP | 240V | 6A | 1440 | | | | | |
| CAMERA INTERFACE BOX | | 120V | 5A | 600 | | | | | |
| MATRIX BOX | | 120V | 5A | 600 | | | | | |
| TOTAL GATE LOAD | | 240V | 11A | 2640 | | | | | |

GENERAL NOTES: CONTRACTOR SHALL METER EACH PANEL FOR 30 DAYS AND PROVIDE RESULTS TO ENGINEER PRIOR TO COMMENCING

SCHEDULES ON SITE.

2. PANEL SCHEDULES WERE DEVELOPED BASED ON PICTURES OF PANELS ON SITE. CONTRACTOR TO VERIFY EXACT PANEL

3. BRANCH CIRCUIT FOR EACH GATE IS BASED ON 240V 1-1/2HP MOTOR. IF FINAL MOTOR SELECTION IS DIFFERENT, CONTRACTOR SHALL NOTIFY ENGINEER TO REVISE CIRCUIT.

TYPICAL GATE LOAD SCALE: NTS

| POWER CIRCUIT SCHDULE | | | | | | | | | | |
|-------------------------|--------------------|---------|----------------------|--------------|--|--|--|--|--|--|
| GATES | CABLE TYPE | CONDUIT | APP. CKT LENGTH (FT) | VOLTAGE DROP | | | | | | |
| PO-G1 (FROM SERVICE | | | | | | | | | | |
| DISCONNECT TO EQUIPMENT | 3#12 AWG & 1#12GND | 3/4" | 10 | 0.23% | | | | | | |
| DISCONNECT) | | | | | | | | | | |
| PO-G2 | 3#1 AWG & 1#1GND | 2" | 1345 | 2.97% | | | | | | |
| PO-G3 | 3#6 AWG & 1#6GND | 2" | 475 | 2.95% | | | | | | |
| PO-G4 | 3#4 AWG & 1#4GND | 2" | 600 | 2.30% | | | | | | |
| PO-G5 | 3#12 AWG & 1#12GND | 2" | 50 | 1.16% | | | | | | |
| PO-G6 | 3#2 AWG & 1#2GND | 2" | 1175 | 2.86% | | | | | | |
| PO-G7 | 3#6 AWG & 1#6GND | 2" | 400 | 2.36% | | | | | | |

POWER FEEDER & BRANCH CIRCUIT SCHEDULE SCALE: NTS

FIBER OPTIC CABLE SCHDULE GATES | CABLE TYPE | QUANTITY FO-G1 | SINGLE MODE | 24 STRANDS FO-G2 SINGLE MODE 24 STRANDS FO-G3 SINGLE MODE 24 STRANDS FO-G5 SINGLE MODE 24 STRANDS FO-G6 SINGLE MODE 24 STRANDS

FO-G7 SINGLE MODE 24 STRANDS



| CAMERA SCHEDULE | | | | | | | | | | |
|-----------------|------|------------|------|--------------|--|--|--|--|--|--|
| CAMERA# | MARK | RESOLUTION | TYPE | MODEL | | | | | | |
| CF-01A | А | 1080P | PTZ | AXIS Q6075-E | | | | | | |
| CF-01C | В | 4K | PTZ | AXIS Q6125-E | | | | | | |
| CF-02A | Α | 1080P | PTZ | AXIS Q6075-E | | | | | | |
| CF-03A | Α | 1080P | PTZ | AXIS Q6075-E | | | | | | |
| CF-04A | А | 1080P | PTZ | AXIS Q6075-E | | | | | | |
| CF-05A | А | 1080P | PTZ | AXIS Q6075-E | | | | | | |
| CF-06A | Α | 1080P | PTZ | AXIS Q6075-E | | | | | | |
| CF-07A | Α | 1080P | PTZ | AXIS Q6075-E | | | | | | |

CAMERA SCHEDULE

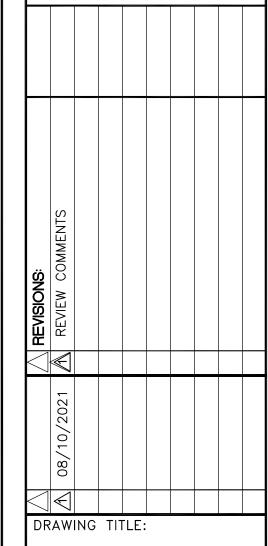
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MIAMI INTERNATIONAL AIRPORT P.O. BOX 99-6610 MIAMI FLORIDA 33299-6610

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ELECTRICAL PANEL SCHEDULES

ISSUE DATE: 04/02/2021 R&B PROJ. NO. 1636-06 DRAWN BY: J.DIAZ CHECKED BY: R.SAYEGH

TY8-01

SHEET NO.:

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AXIS Q6155-E PTZ Network Camera

High-speed PTZ with instant laser focus

The compact, outdoor-ready AXIS Q6155-E features a built-in laser that provides instant focus even in challenging lighting conditions. It also delivers top performance HDTV 1080p video, with 30x optical zoom. Axis Sharpdome and Lightfinder technologies provide full scene fidelity and perfect image quality in all directions, even in low-light conditions, while Axis Zipstream technology significantly reduces bandwidth and storage requirements. The quick and precise pan makes it easy to change viewing position and follow fast moving objects. The speed dry function easily removes water drips from the dome glass, providing clear images in rainy weather.

- > Laser focus
- > Sharpdome technology with Speed Dry
- > Lightfinder technology
- > Zipstream technology
- > HDTV 1080p and 30x optical zoom







| AXIS | Q6155 | -F PT7 | Network | Camera |
|------|--------------|---------|------------|---------|
| | GO I JJ | -4 1 14 | TACIALOTIZ | Cantera |

| Models | AXIS Q6155-E 50 Hz AXIS Q6155-E 60 Hz | | IP address removed, network lost, new IP address, shock detected storage failure, system ready, within operating temperature Edge storage: recording ongoing, storage disruption | |
|---|--|----------------------------|---|--|
| Image sensor 1/2.8" Progressive scan CMOS | | | I/O: digital input, manual trigger, virtual input PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position | |
| Lens | 4.3-129 mm, F1.6-4.7 Horizontal field of view: 66.7°-2.36° Vertical field of view: 39.5°-1.37° | Event actions | reached, PTZ ready Scheduled and recurring: scheduled event Video: live stream open | |
| Day and night | Laser focus, auto-iris nd night Automatically removable infrared-cut filter | | Record video: SD card and network share Pre- and post-alarm video or image buffering for recording or | |
| Minimum illumination | nination B/W: 0.01 lux at 30 IRE, F1.6 Color: 0.2 lux at 50 IRE, F1.6 B/W: 0.02 lux at 50 IRE, F1.6 | | upload Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share, and email Notification: email, HTTP, HTTPS, TCP, and SNMP trap PTZ: PTZ preset, guard tour | |
| Shutter time | 1/60000 s to 2 s | | Overlay text, day/night mode WDR mode | |
| Pan/Tilt/Zoom | Pan: 360° endless, 0.05°-700°/s Tilt: +20 to -90°, 0.05°-500°/s | Data streaming | Event data | |
| | Zoom: 30x optical, 12x digital, total 360x zoom Nadir flip, 256 preset positions, tour recording, guard tour, | Built-in installation aids | Focus assistant, pixel counter, remote back focus | |
| | control queue, on-screen directional indicator, set new pan 0°, | General | | |
| *** * | adjustable zoom speed, speed dry | Casing | IK08, IK10 housing and mounting ^b , IP66- and NEMA 4X-rated | |
| Video Video compression | H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG | 3 | Repaintable metal casing (aluminum), hard coated Polycarbonate (PC) clear dome with Sharpdome technology | |
| Resolution | 1920x1080p (HDTV 1080p) to 320x180 | Sustainability | PVC free | |
| Frame rate | Up to 25/30 fps (50/60 Hz) in 1080p | Memory | 512 MB RAM, 256 MB Flash | |
| | Up to 50/60 fps (50/60 Hz) in 720p | Power | Axis High PoE midspan 1-port: 100-240 V AC, max 74 W Camera consumption: typical 11 W, max 51 W | |
| Video streaming | Multiple, individually configurable streams in H.264 and Motion JPEG Axis Zipstream technology in H.264 Controllable frame rate and bandwidth | | Axis PoE+ midspan 1-port: 100-240 V AC, max 37 W IEEE 802.3at Type 2 Class 4 Camera consumption: typical 11 W, max 25 W | |
| lucana sattinus | VBR/MBR H.264 | Connectors | RJ45 10BASE-T/100BASE-TX RJ45 Push-pull Connector (IP66) | |
| Image settings | Compression, color, brightness, sharpness, white balance, exposure control, exposure zones, rotation, fine tuning of behavior at low light, electronic image stabilization (EIS), manual shutter time, text and image overlay, image freeze on PTZ Contrast, local contrast, automatic backlight compensation, | Storage | Support for SD/SDHC/SDXC card Support for SD card encryption Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com | |
| | autofocus, WDR – forensic capture: 120 dB 32 individual 3D privacy masks | Operating conditions | With 30 W midspan: -20 °C to 50 °C (-4 °F to 122 °F) With 60 W midspan: -55 °C to 50 °C (-67 °F to 122 °F) | |
| Network | Descripted protection ID address filtering LITTES are matical | | Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F) | |
| Security | Password protection, IP address filtering, HTTPS ^a encryption, IEEE 802.1x (EAP-TLS) ^a network access control, Digest authentication, User access log, Centralized Certificate | | Arctic Temperature Control: Start-up as low as -40 °C (-40 °F) Humidity 10–100% RH (condensing) | |
| Supported | Management, Brute force delay protection, signed firmware IPv4, IPv6 USGv6, HTTP, HTTPS ^a , SSL/TLS ^a , QoS Layer 3 DiffServ, | Storage conditions | -40 °C to 70 °C (-40 °F to 158 °F) Humidity 5-95% RH (non-condensing) | |
| protocols | FTP, CIFS/SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SRTP, SFTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, NTCIP | Approvals | EMC EN 55022 Class A, EN 55024, EN 50121-4, IEC 62236-4, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, | |
| System integra | rtion | | FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, RCM AS/NZS CISPR22 Class A | |
| Application Programming Interface | Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <i>axis.com</i> AXIS Video Hosting System (AVHS) with One-Click Connection ONVIF® Profile G and ONVIF® Profile S, specifications at <i>onvif.org</i> | | KCC KN32 Class A, KN35 Safety IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, Laser Safety Regulations IEC/EN 60825-1 Class I Ed. 3 (2014), IS 13252 Environment IEC/EN 62262 IK08, IEC/EN 60529 IP66, NEMA 250, Type 4X, NEMA TS 2 (2.2.7-2.2.9), IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-30, IEC 60068-2-78, ISO4892-2 Midspan: EN 60950-1, GS, UL, CUL, CE, FCC, VCCI, CB, KCC, UL-A Network | |
| Analytics Event triggers | Included AXIS Video Motion Detection, AXIS Fence Guard, AXIS Motion Guard Supported Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap Detectors: live stream accessed, motion detection, shock | | | |
| Event triggers | detection, day/night mode Hardware: network, temperature, fan Input Signal: manual trigger, virtual inputs PTZ: autotracking, error, moving, preset reached, ready Storage: disruption, recording | Dimensions | NIST SP500-267 With mounting hook: 274 x 165 x 165 mm (10 13/16 x 6 1/2 x 6 1/2 in) Without mounting hook: 256 x 165 x 165 mm (10 1/16 x 6 1/2 x 6 1/2 in) | |
| | System: system ready | Weight | 2.9 kg (6.4 lb) | |
| Event conditions | | Included accessories | IP66-rated RJ45 connector kit, Axis High PoE SFP Midspan, Installation guide, Windows decoder 1-user license | |
| | Audio: audio detection Device status: above operating temperature, above or below operating temperature, fan failure, | | | |

T10073754/EN/M12.2/2005 www.axis.com

| Optional accessories | AXIS T91/T94 Mounting Accessories, Axis High PoE midspans For more accessories, see axis.com |
|---------------------------------|--|
| Video management software | AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available on www.axis.com/vms |
| Languages | English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese |
| Warranty | Axis 3-year warranty and AXIS Extended Warranty option, see axis.com/warranty |

a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).
 b. Mounting not included

Environmental responsibility: axis.com/environmental-responsibility

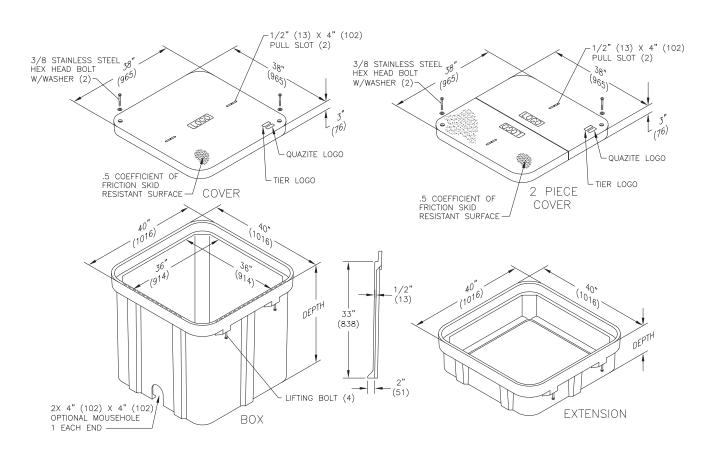




36" x 36" PG Style Polymer Concrete (Stackable) Assembly

Dimensions / Data

Hex Head Bolts are Standard



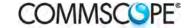
| | Covers | | | | | | | |
|------------|--------------------|------|----------------------|---------|------------|--------------|--|--|
| | DESCRIPTION | TIER | DESIGN / TEST LOAD # | WEIGHT# | PALLET QTY | PART NO. | | |
| U L | W/ 2 Bolts | 8 | 8,000 / 12,000 | 174 | 10 | PG3636CA00** | | |
| | 2 Piece w/ 2 Bolts | 8 | 8,000 / 12,000 | 220 | 10 | PG3636CS00** | | |
| (UL) | W/ 2 Bolts | 15 | 15,000 / 22,500 | 220 | 10 | PG3636HA00** | | |
| (UL) | 2 Piece w/ 2 Bolts | 15 | 15,000 / 22,500 | 220 | 10 | PG3636HS00** | | |
| (UL) | W/ 2 Bolts | 22 | 22,500 / 33,750 | 330 | 10 | PG3636HH00** | | |
| | 2 Piece w/ 2 Bolts | 22 | 22,500 / 33,750 | 202 | 10 | PG3636H517** | | |
| (II) | No Bolts | 8 | 8,000 / 12,000 | 174 | 10 | PG3636WA00** | | |

To order gasketed covers, replace the letter "A" with the letter "G".

Replace ** with a logo code found on page 64. See page 70 for meter and touch/radio read cover options. NOTE: Gasketed covers and bolt grommets must be used with a gasketed box. Gaskets reduce the inflow of fluids but do not make the enclosure water tight.



Product Specifications

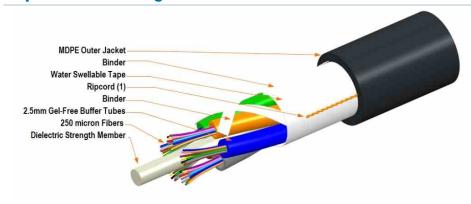




760053843 | D-012-LN-8W-F12NS

Single Jacket All-Dielectric, Gel-Free, Outdoor Stranded Loose Tube Cable

Representative Image



General Specifications

Cable Type Stranded loose tube

Construction Type Non-armored Subunit Type Gel-free

Construction Materials

Fiber Type Solution TeraSPEED®, zero water peak singlemode fiber (G.652.D, G.657.A1 | OS2)

Jacket Material PE
Total Fiber Count 12

Fiber Type TeraSPEED®, zero water peak singlemode fiber (G.652.D, G.657.A1 | OS2)

Fiber Type, quantity 12
Fibers per Subunit, quantity 12
Jacket Color Black

Jacket UV Resistance UV stabilized

Dimensions

Buffer Tube/Subunit Diameter 2.50 mm | 0.10 in Cable Weight 66.0 kg/km | 44.0 lb/kft

Diameter Over Jacket 10.20 mm | 0.40 in

Filler, quantity 4
Subunit, quantity 1

Physical Specifications

Minimum Bend Radius, loaded 15.3 cm | 6.0 in

Product Specifications



760053843 | D-012-LN-8W-F12NS

Minimum Bend Radius, unloaded 10.2 cm | 4.0 in
Tensile Load, long term, maximum 180 lbf | 800 N
Tensile Load, short term, maximum 2700 N | 607 lbf
Vertical Rise, maximum 1247.0 m | 4091.2 ft

Environmental Specifications

Environmental Space Aerial, lashed | Buried

Installation Temperature $-30 \,^{\circ}\text{C}$ to $+70 \,^{\circ}\text{C}$ (-22 °F to $+158 \,^{\circ}\text{F}$)
Operating Temperature $-40 \,^{\circ}\text{C}$ to $+70 \,^{\circ}\text{C}$ (-40 °F to $+158 \,^{\circ}\text{F}$)
Storage Temperature $-40 \,^{\circ}\text{C}$ to $+75 \,^{\circ}\text{C}$ (-40 °F to $+167 \,^{\circ}\text{F}$)

Mechanical Test Specifications

Compression 125 lb/in | 22 N/mm

Compression Test Method FOTP-41 | IEC 60794-1 E3

Flex 35 cycles

Flex Test Method FOTP-104 | IEC 60794-1 E6

Strain See long and short term tensile loads

Strain Test Method FOTP-33 | IEC 60794-1 E1

Twist 10 cycles

Twist Test Method FOTP-85 | IEC 60794-1 E7

Water Penentration 24 h

Water Penentration Test Method FOTP-82 | IEC 60794-1 F5

Environmental Test Specifications

Cable Freeze -2 °C | 28 °F

Cable Freeze Test Method FOTP-98 | IEC 60794-1 F15

Heat Age -40 °C to +85 °C (-40 °F to +185 °F)

Heat Age Test Method IEC 60794-1 F9

Low High Bend $-30 \,^{\circ}\text{C}$ to $+60 \,^{\circ}\text{C}$ (-22 °F to $+140 \,^{\circ}\text{F}$)

Low High Bend Test Method FOTP-37 | IEC 60794-1 E11

Temperature Cycle -40 °C to +70 °C (-40 °F to +158 °F)

Temperature Cycle Test Method FOTP-3 | IEC 60794-1 F1

Qualification Specifications

Cable Qualification Standards ANSI/ICEA S-87-640 | EN 187105 | Telcordia GR-20

Regulatory Compliance/Certifications

Agency Classification RoHS 2011/65/EU Compliant

ISO 9001:2008 Designed, manufactured and/or distributed under this quality management system



Product Specifications



760053843 | D-012-LN-8W-F12NS

Included Products

CS-8W-LT (Product Component—not orderable) — TeraSPEED® OS2 Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable