### Security Equipment Symbols List

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Remarks</th>
<th>Position</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Symbol Image]</td>
<td>Security Equipment</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>![Symbol Image]</td>
<td>Access Control Equipment</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>![Symbol Image]</td>
<td>Surveillance Equipment</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>![Symbol Image]</td>
<td>Intrusion Detection Equipment</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

### Security Equipment Symbols List (Continued)

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<td>Intrusion Detection Equipment</td>
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<td>---</td>
</tr>
</tbody>
</table>

### Abbreviations

<table>
<thead>
<tr>
<th>Code</th>
<th>Abbreviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>STC</td>
<td>Security Technical Control</td>
</tr>
<tr>
<td>PS</td>
<td>Power Source</td>
</tr>
</tbody>
</table>

### Security Portal Symbol Key

![Symbol Diagram]

### Conduit Designation Key

![Diagram]

### Security Cable Designation/Type

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Coding</th>
<th>Nationality</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Steel conduit</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>2</td>
<td>Plastic conduit</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>3</td>
<td>Copper conduit</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>4</td>
<td>Aluminum conduit</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>5</td>
<td>Armored conduit</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>
EACS COMPOSITE CABLE
JACKET COLOR: WHITE
NOMINAL OD: 0.405"
[NON-SHIELDED]

'LOCK POWER' INNER CABLE
JACKET COLOR: GRAY
[NON-SHIELDED]

'REQUEST-TO-EXIT' INNER CABLE
JACKET COLOR: BLUE
[NON-SHIELDED]

18AWG - 4 CONDUCTOR
WIRE COLOR: RD / BK / WH / GR
[WH / GR = SPARE]

22AWG - 4 CONDUCTOR
WIRE COLOR: RD / BK / WH / GR
[RD / BK = SPARE]

22AWG - 4 CONDUCTOR
WIRE COLOR: RD / BK / WH / GR
[WH / GR = SPARE]

22AWG - 6 CONDUCTOR
WIRE COLOR: RD / WH / BK / GR / BN / BL
[BL = SPARE]

'B<Card Reader' INNER CABLE
JACKET COLOR: ORANGE
[SHEILDDED]

'Door Contact' INNER CABLE
JACKET COLOR: WHITE
[NON-SHIELDED]

COLOR CODE:
BL = BLUE
BK = BLACK
BR = BROWN
GR = GREEN
GY = GRAY
OR = ORANGE
RD = RED
WH = WHITE
COMMAND ACCESS
MODEL PS5 LOCK
POWER SUPPLY

COMPOSITE CABLE 'L'
INNER CABLE

18AWG - 4 CONDUCTOR
[NON-SHIELDED]
JACKET COLOR: GRAY

GENERAL NOTE:
PULL WIRE SEPARATELY THRU
ELECTRONIC POWER TRANSFER
HINGE(S) FOR REX SWITCH.
COLOR CODE:

BK = BLACK
GR = GREEN
GY = GRAY
RD = RED
WH = WHITE

GENERAL NOTE:
PULL WIRE SEPARATELY THRU ELECTRONIC POWER TRANSFER HINGE(S) FOR REX SWITCH.
COLOR CODE:
BK = BLACK
GR = GREEN
GY = GRAY
RD = RED
WH = WHITE

ELECTRIFIED MORTISE LOCK
CORBIN RUSSWIN:
ML2257-LWA-CT6-M30
COMMAND ACCESS:
ML053UxCRU2i

ALTRONIX LOCK
POWER SUPPLY
(CLASS II)

COMPOSITE CABLE 'L'
INNER CABLE

18AWG - 4 CONDUCTOR
[NON-SHIELDED]
JACKET COLOR: GRAY

2-PIN
LOCK POWER
CONNECTOR

2-PIN
LOCK POWER
CONNECTOR

ELECTRIFIED MORTISE LOCK

COLOR CODE:
GR
WH
GY

198x437
199x466
285x503
263x586

[SPARE]
[SPARE]
COLOR CODE:
BL = BLUE
BK = BLACK
GR = GREEN
RD = RED
WH = WHITE

GENERAL NOTE:
PULL WIRE SEPARATELY THRU ELECTRONIC POWER TRANSFER HINGE(S) FOR REX SWITCH.
COLOR CODE:

BL = BLUE
BK = BLACK
BN = BROWN
GR = GREEN
RD = RED
WH = WHITE
OR = ORANGE

COMPOSITE CABLE 'L'
INNER CABLE

22AWG - 6 CONDUCTOR
[SHIELDED]
JACKET COLOR: ORANGE

TO EACS CONTROLLER

BIO / CARD READER:
AptiQ MODEL MT11
AptiQ MODEL MT15
AptiQ MODEL MTK15
AptiQ MODEL MTMS15
BIOSCRIPT MODEL 4G
ACCESS CONTROL
POWER SUPPLY
(12/24VDC - 250mA)

COMPOSITE CABLE 'L'
INNER CABLE

18AWG - 4 CONDUCTOR
[NON-SHIELDED]
JACKET COLOR: GRAY

SCHLAGE DUAL READER
PANEL INTERFACE MODULE
PIM400-TD2 WITH
RELAY BOARD RLBD

COLOR CODE:
BK = BLACK
GR = GREEN
GY = GRAY
RD = RED
WH = WHITE

123 Technology Drive
Irvine CA 92618
tel 949.727.0373
fax 949.727.7346
TO LENEL LNL-1320 TERMINALS TB8 - D1 / DO / GND & TB10 - C / NO

COMPOSITE CABLE 'L'
INNER CABLE

22AWG - 6 CONDUCTOR [SHIELDED]
JACKET COLOR: ORANGE

BL [SPARE]
BL [SPARE]

COLOR CODE:
BK = BLACK
BL = BLUE
BN = BROWN
GR = GREEN
OR = ORANGE
RD = RED
WH = WHITE

SCHLAGE DUAL READER PANEL INTERFACE MODULE PIM400-TD2 WITH RELAY BOARD RLBD

TO LENEL LNL-1320 TERMINALS TB8 - D1 / DO / GND & TB10 - C / NO

COMPOSITE CABLE 'L'
INNER CABLE

22AWG - 6 CONDUCTOR [SHIELDED]
JACKET COLOR: ORANGE

BL [SPARE]
BL [SPARE]
22AWG - 4 CONDUCTOR [NON-SHIELDED] JACKET COLOR: WHITE

COLOR CODE:
BL = BLUE
GR = GREEN
RD = RED
WH = WHITE

TO LENEL LNL-1320 TERMINAL TB1 - IN1 / IN1

COMPOSITE CABLE 'L'
INNER CABLE

22AWG - 4 CONDUCTOR [NON-SHIELDED] JACKET COLOR: WHITE

SCHLAGE DUAL READER PANEL INTERFACE MODULE PIM400-TD2 WITH RELAY BOARD RLBD

J1

J2

J5

GND
TB+
RB+
TA-
RA-

J8
J7
J10
J11

1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8

AUXILLARY INPUT No.1
AUXILLARY INPUT No.2

COLOR CODE:
BL = BLUE
GR = GREEN
RD = RED
WH = WHITE

TO LENEL LNL-1320 TERMINAL TB1 - IN1 / IN1

COMPOSITE CABLE 'L'
INNER CABLE

22AWG - 4 CONDUCTOR [NON-SHIELDED] JACKET COLOR: WHITE

AUXILLARY INPUT No.1
AUXILLARY INPUT No.2

COLOR CODE:
BL = BLUE
GR = GREEN
RD = RED
WH = WHITE

TO LENEL LNL-1320 TERMINAL TB1 - IN1 / IN1

COMPOSITE CABLE 'L'
INNER CABLE

22AWG - 4 CONDUCTOR [NON-SHIELDED] JACKET COLOR: WHITE

AUXILLARY INPUT No.1
AUXILLARY INPUT No.2

COLOR CODE:
BL = BLUE
GR = GREEN
RD = RED
WH = WHITE

TO LENEL LNL-1320 TERMINAL TB1 - IN1 / IN1

COMPOSITE CABLE 'L'
INNER CABLE

22AWG - 4 CONDUCTOR [NON-SHIELDED] JACKET COLOR: WHITE

AUXILLARY INPUT No.1
AUXILLARY INPUT No.2

COLOR CODE:
BL = BLUE
GR = GREEN
RD = RED
WH = WHITE

TO LENEL LNL-1320 TERMINAL TB1 - IN1 / IN1

COMPOSITE CABLE 'L'
INNER CABLE

22AWG - 4 CONDUCTOR [NON-SHIELDED] JACKET COLOR: WHITE

AUXILLARY INPUT No.1
AUXILLARY INPUT No.2

COLOR CODE:
BL = BLUE
GR = GREEN
RD = RED
WH = WHITE

TO LENEL LNL-1320 TERMINAL TB1 - IN1 / IN1

COMPOSITE CABLE 'L'
INNER CABLE

22AWG - 4 CONDUCTOR [NON-SHIELDED] JACKET COLOR: WHITE

AUXILLARY INPUT No.1
AUXILLARY INPUT No.2

COLOR CODE:
BL = BLUE
GR = GREEN
RD = RED
WH = WHITE

TO LENEL LNL-1320 TERMINAL TB1 - IN1 / IN1

COMPOSITE CABLE 'L'
INNER CABLE

22AWG - 4 CONDUCTOR [NON-SHIELDED] JACKET COLOR: WHITE

AUXILLARY INPUT No.1
AUXILLARY INPUT No.2

COLOR CODE:
BL = BLUE
GR = GREEN
RD = RED
WH = WHITE

TO LENEL LNL-1320 TERMINAL TB1 - IN1 / IN1

COMPOSITE CABLE 'L'
INNER CABLE

22AWG - 4 CONDUCTOR [NON-SHIELDED] JACKET COLOR: WHITE

AUXILLARY INPUT No.1
AUXILLARY INPUT No.2

COLOR CODE:
BL = BLUE
GR = GREEN
RD = RED
WH = WHITE
TO LENEL LNL-1320
TERMINAL TB1 - IN2 / IN2

COMPOSITE CABLE 'L'
INNER CABLE

22AWG - 4 CONDUCTOR
[NON-SHIELDED]
JACKET COLOR: BLUE

BK  RD  [SPARE]
RD  BK  [SPARE]

COLORM CODE:
BK = BLACK
BL = BLUE
GR = GREEN
RD = RED
WH = WHITE

EACS COMPOSITE CABLE 'L' SCHLAGE PIM400-TD2
REX INNER CABLE 'BL' CONNECTION DETAIL
22AWG - 6 CONDUCTOR
[SHIELDED]
INNER CABLE
JACKET COLOR:  ORANGE

COLOR CODE:
BK = BLACK
BL = BLUE
BN = BROWN
GR = GREEN
OR = ORANGE
RD = RED
WH = WHITE

TO SCHLAGE
PIM400-TD2
TERMINAL J8 - 1~5
22AWG - 4 CONDUCTOR
[NON-SHIELDED]
JACKET COLOR: WHITE

TO SCHLAGE
PIM400-TD2
TERMINAL J10 - 5 / 6

COLOR CODE:
BK = BLACK
BL = BLUE
GR = GREEN
RD = RED
WH = WHITE

USC SECURITY SYSTEM GUIDELINES
123 Technology Drive
Irvine CA 92618
tel 949.727.0373
fax 949.727.7346
COLOR CODE:
BL = BLUE
GR = GREEN
RD = RED
WH = WHITE

22AWG - 4 CONDUCTOR
NON-SHIELDED
JACKET COLOR: BLUE

COMPOSITE CABLE 'L'
INNER CABLE

TO SCHLAGE
PIM400-TD2
TERMINAL J10 - 7 / 8
SECURE MOUNTING BRACKET TO WALL USING APPROVED ANCHORS FOR WALL MATERIAL. ANCHORS SHALL BE RATED TO SUPPORT A MINIMUM LOAD OF 300LBS.

REFER TO FLOOR PLANS FOR CONDUIT SIZE AND DESTINATION

GENERAL NOTES:
1. REFER TO PLANS FOR CAMERA TYPE AND LOCATIONS.
2. PROVIDE WEATHER PROOF ENCLOSURE, FITTING, BACKBOX, CONDUIT, AND FINISHES.

REFERENCE NOTES:
1. PROVIDE BOX WITH COVERPLATE RATED FOR ENVIRONMENT, PROVIDE ACCESS THROUGH COVERPLATE SURFACE MOUNT BOX AND SECURE FLEXIBLE LIQUID TIGHT CONDUIT.
2. PROVIDE GRIP LOOP.
TYPICAL CONDUIT REQUIREMENTS FOR DOUBLE DOOR WITH ELECTRIFIED EXIT HARDWARE

USC SECURITY SYSTEM GUIDELINES

123 Technology Drive
Irvine CA 92618
tel 949.727.0373
fax 949.727.7346

GENERAL NOTES:
1. WHEN SHOWN IS FROM SECURED SIDE OF PORTAL CONDUIT, BOXES AND EQUIPMENT SHALL BE MOUNTED ON SECURED SIDE OF PORTAL, UNLESS OTHERWISE NOTED.
2. CONDUITS MAY BE COMBINED. IF COMBINED, CONTRACTOR SHALL ENSURE CONDUIT IS SO IXED TO ACCEPT REQUIRED CONDUCTORS.
3. COORDINATE MOUNTING LOCATIONS, ROUGH-IN AND FINISHES WITH THE OWNER.
4. CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
5. DOOR HARDWARE SHOWN FOR REFERENCE ONLY. TYPE OF HARDWARE MAY VARY.
6. INTEGRAL REX SWITCH SHALL BYPASS DOOR ALARM ONLY.
7. PROVIDE CONDUIT IN WALL ONLY WHERE WIRING CANNOT BE ROUTED IN DOOR FRAME.
8. USE 3/4" CONDUIT FROM J-BOX TO DEVICE.
9. EXISTING BUILDINGS: SURVEY EACH LOCATION AND VERIFY CONDITION AND UTILIZATION OF CABLES AT EACH DEVICE.

REFERENCE NOTES:

ACCESS CONTROL CABLE Wiring SCHEDULE

<table>
<thead>
<tr>
<th>DESIGNATION</th>
<th>DESCRIPTION</th>
<th>PURPOSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>Gray, 18 AWG-2C - Unshielded</td>
<td>Lock Control</td>
</tr>
<tr>
<td>WHITE OVERALL JACKET</td>
<td>Orange, 22 AWG-4C - Shielded</td>
<td>Card Reader</td>
</tr>
<tr>
<td>WHITE OVERALL JACKET</td>
<td>Blue, 22 AWG-4C - Unshielded</td>
<td>Request to Exit</td>
</tr>
</tbody>
</table>

WHERE REQUIRED ROUTE CABLE(S) FROM LEVEL BELOW.
TYPICAL REQUIREMENTS FOR STOREFRONT DOUBLE DOOR WITH ELECTRIFIED EXIT HARDWARE

GENERAL NOTES:
1. VIEW SHOWN IS FROM SECURED SIDE OF PORTAL. CONDUIT, BOXES, AND EQUIPMENT SHALL BE MOUNTED ON SECURED SIDE OF PORTAL, UNLESS OTHERWISE NOTED.
2. CONDUITS MAY BE COMBINED. IF COMBINED, CONTRACTOR SHALL ENSURE CONDUIT IS SIZED TO ACCEPT REQUIRED CONDUCTORS.
3. COORDINATE MOUNTING LOCATIONS, ROUGH-IN AND FINISHES WITH THE OWNER.
4. CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
5. DOOR HARDWARE SHOWN FOR REFERENCE ONLY. TYPE OF HARDWARE MAY VARY.
6. INTEGRAL REX SWITCH SHALL BYPASS DOOR ALARM ONLY.
7. PROVIDE CONDUIT IN WALL ONLY WHERE WIRING CANNOT BE ROUTED IN DOOR FRAME.
8. USE 3/4" CONDUIT FROM J-BOX TO DEVICE.
9. EXISTING BUILDINGS: SURVEY EACH LOCATION AND VERIFY CONDITION AND UTILIZATION OF CABLES AT EACH DEVICE.

REFERENCE NOTES:

ACCESS CONTROL CABLE WIRING SCHEDULE

<table>
<thead>
<tr>
<th>DESIGNATION</th>
<th>DESCRIPTION</th>
<th>PURPOSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>GRAY, 18 AWG-4/C - UNSHIELDED</td>
<td>LOCK CONTROL</td>
</tr>
<tr>
<td>COMPOSITE WHITE OVERALL JACKET</td>
<td>ORANGE, 22 AWG-4/C - SHIELDED</td>
<td>CARD READER</td>
</tr>
<tr>
<td>REX</td>
<td>WHITE, 22 AWG-4/C - UNSHIELDED</td>
<td>REX</td>
</tr>
<tr>
<td>DIP</td>
<td>BLUE, 22 AWG-4/C - UNSHIELDED</td>
<td>REQUEST TO EXIT</td>
</tr>
</tbody>
</table>
1. Refer to floor plans for camera types and locations.
2. Provide weatherproof enclosures, fittings, back boxes, conduits and finishes.
TYPICAL REQUIREMENTS FOR EXTERIOR WALL MOUNT DOME CAMERA (OPTION 2)

LINE OF FINISHED WALL

WALL MOUNT BRACKET

SECURE MOUNTING BRACKET TO WALL USING APPROVED ANCHORS FOR TEC CONDITONS. ANCHORS SHALL SUPPORT MINIMUM 20LB LOAD.

3/4" CHASE NIPPLE WITH LOCKNUTS AND WASHER ON BOTH SIDES OF WALL.

FLUSH MOUNT J-BOX WITH SINGLE GANG RING AND BLANK COVER PLATE.

REFER TO PLANS FOR CONDUIT SIZE AND DESTINATION.

GENERAL NOTES:
1. REFER TO FLOOR PLANS FOR CAMERA TYPES AND LOCATIONS.
2. PROVIDE WEATHERPROOF ENCLOSURES, FITTINGS, BACK BOXES, CONDUITS AND FINISHES.
REFERENCE NOTES:
1. PROVIDE TELEPHONE AND FACS WIRING
2. PROVIDE 120VAC FOR BLUE VISUAL INDICATOR
3. PROVIDE TAMPER RESISTANT HARDWARE.
GENERAL NOTES:
1. REFER TO FLOOR PLANS FOR CAMERA TYPES AND LOCATIONS.
2. PROVIDE PAINTING AND FINISHES OF MATERIALS AND DEVICES, AS APPROVED BY THE OWNER.
FINISHED CEILING/Ceiling Support Above Plenum

REFER TO FLOOR PLANS FOR CONDUIT SIZE AND DESTINATION

4S BOX MOUNTED TO CAMERA BRACKET

4S BOX ADAPTER PLATE

FINISHED CEILING

16-GAUGE DROP CEILING CAMERA MOUNTING PLATE
(WEIGHT: 2 LBS.)

INTEGRATED DOME ENCLOSURE WITH FIXED COLOR CAMERA
(WEIGHT: 6 LBS.)

GENERAL NOTES:
1. REFER TO FLOOR PLANS FOR CAMERA TYPES AND LOCATIONS.
2. PROVIDE PAINTING AND FINISHES OF MATERIALS AND DEVICES, AS APPROVED BY THE OWNER.

REFERENCE NOTE:
0. ENSURE ADJACENT SUPPORT WIRES AND MOUNTING HARDWARE ARE CAPABLE OF SUPPORTING THE WEIGHT OF THE ENTIRE CAMERA ASSEMBLY.
GENERAL NOTES:

1. NEW SHOWN IS FROM SECURED SIDE OF PORTAL. CONDUIT, BOXES AND EQUIPMENT SHALL BE MOUNTED ON SECURED SIDE OF PORTAL, UNLESS OTHERWISE NOTED.

2. CONDUITS MAY BE COMBINED, IF COMBINED, CONTRACTOR SHALL ENSURE CONDUIT IS SIZED TO ACCEPT REQUIRED CONDUCTORS.

3. COORDINATE MOUNTING LOCATIONS, ROUGH-IN AND FINISHES WITH THE OWNER.

4. CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.

5. DOOR HARDWARE SHOWN FOR REFERENCE ONLY. TYPE OF HARDWARE MAY VARY.

6. CONCEAL 3/4" CONDUIT IN WALL. COORDINATE WITH OWNER WHERE SURFACE MOUNTED CONDUIT IS REQUIRED.

7. EXISTING BUILDINGS: SURVEY EACH LOCATION AND VERIFY CONDITION AND UTILIZATION OF CABLES AT EACH DEVICE.

REFERENCE NOTES:

6 PROVIDE 3/4" BUSHING CONDUIT AND STUB-UP ABOVE FINISHED CEILING WITH PLENUM CABLE (TYPE L), AND ROUTE TO NEAREST STC. REFER TO PLANS FOR CABLE DESTINATION AND TERMINATION POINTS. PROVIDE CONDUIT WHERE REQUIRED TO STC FOR PLENUM-RATED CABLE(S).

8 PROVIDE ROUGH-IN AS REQUIRED AND BACKBOX PROVIDED OR AS RECOMMENDED BY REMOTE INTERCOM STATION MANUFACTURER.
WALL MOUNTED DURESS SWITCH DETAIL

- Provide conduit to accessible ceiling.
- Route wiring to EDS panel, zone module.

WALL MOUNTED

- Trim plate

MOUNTING KNEEWELL MOUNT SWITCH DETAIL

- Mount door release switch to side of kneewell.

UNDER COUNTER MOUNT DETAIL

- 2.85" x 4.5"
- Under desk/counter mounted
- Strain relief cable clamp/connector
- Route cable to conduit body using cable clamps (typical)
- Make connections inside 3/4" conduit body secured under desk top at side of kneewell
- Flexible conduit (refer to plans for destination)

MOUNTING KNEEWELL MOUNT SWITCH DETAIL

- 3
- Top of desk/counter
- Bottom of desk/counter
- Flexible conduit (refer to plans for destination)
- Route cable to conduit body using cable clamps (typical)
- Make connections inside 3/4" conduit body secured under counter top at side of kneewell
- Mount door release switch to side of kneewell
TYPICAL CEILING TILE MOUNT GLASS BREAK DETECTOR

USC SECURITY SYSTEM GUIDELINES

123 Technology Drive
Irvine CA 92618
tel 949.727.0373
fax 949.727.7346

GENERAL NOTES:
1. REFER TO PLANS FOR GLASS BREAK DETECTOR LOCATIONS.
2. PROVIDE FINISHES, MATERIALS AND DEVICES, AS APPROVED BY THE OWNER.
3. ROUTE WIRING TO UL-1100

PROJECT TITLE: USC SECURITY SYSTEM GUIDELINES
PROJECT No.: 201050
DWG NAME: TYPICAL CEILING TILE MOUNT GLASS BREAK DETECTOR
DATE: 07/26/2013
DESIGNED BY: KK
DRAWN BY: DC/MTH
SCALE: NTS
DWG No.: M-002
GENERAL NOTES:

1. VIEW SHOWN IS FROM SECURED SIDE OF PORTAL. CONDUIT, BOXES AND EQUIPMENT SHALL BE MOUNTED ON SECURED SIDE OF PORTAL, UNLESS OTHERWISE NOTED.

2. CONDUITS MAY BE COMBINED. IF COMBINED, CONTRACTOR SHALL ENSURE CONDUIT IS SIZED TO ACCEPT REQUIRED CONDUCTORS.

3. COORDINATE MOUNTING LOCATIONS, ROUGH-IN AND FINISHES WITH THE OWNER.

4. DOOR HARDWARE SHOWN FOR REFERENCE ONLY. TYPE OF HARDWARE MAY VARY.

5. INTEGRAL REX SWITCH SHALL BYPASS DOOR ALARM ONLY.

6. EXISTING BUILDINGS: SURVEY EACH LOCATION AND VERIFY WIRING AT EACH DEVICE.

REFERENCE NOTE:

ROUTE CONDUIT WITH OUTDOOR RATED COMPOSITE CABLE (TYPE "R") UNDERGROUND TO NEAREST EXIT. REFER TO PLANS FOR CABLE DESTINATION AND TERMINATION POINTS.

COMPOSITE CABLE WIRING SCHEDULE

<table>
<thead>
<tr>
<th>JACKET COLOR</th>
<th>DESCRIPTION</th>
<th>PURPOSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>GR-GREY</td>
<td>18 AWG-4/C</td>
<td>LOCK CONTROL</td>
</tr>
<tr>
<td>OR-ORANGE</td>
<td>22 AWG-3/PAR</td>
<td>CARD READER</td>
</tr>
<tr>
<td>WH-WHITE</td>
<td>22 AWG 4/C</td>
<td>DPS</td>
</tr>
<tr>
<td>BL-BLUE</td>
<td>18 AWG 4/C</td>
<td>REQUEST TO EXIT</td>
</tr>
</tbody>
</table>
GENERAL NOTE:
1. ENCLOSURES, FITTINGS, BACKBOXES AND FINISHES SHALL BE WEATHERPROOF.

REFERENCE NOTES:
☐ PROVIDE SIGNAL CONDUIT TO BUILDING SPF.
☐ PROVIDE CONDUIT FOR LIGHT POWER.
3/4" SMOOTH CONDUIT CONCEALED IN WALL UP TO NEAREST SECURITY PULL BOX ABOVE FINISHED CEILING

UPPER CABLE ACCESS POINT AND
FLUSH MOUNT 45° PULL BOX

UPPER MOUNTING POINTS
AT BASE

WIXX MODEL DB ADA COMPLIANT
ACTUATOR SWITCH ENGRAVED WITH
ADA SYMBOL AND "PUSH TO OPEN"
(36" THICK WALL)

[OPTIONAL] LOWER POSITION
CABLE ACCESS POINT

LOWER MOUNTING POINTS
AT BASE

LINE OF FINISHED FLOOR

INTERIOR WALL

GENERAL NOTE:
REFER TO ARCHITECTURAL SPECIFICATIONS FOR COLOR,
FINISHES AND CUSTOM ENGRAVING INFORMATION.
GENERAL NOTE:
REFER TO ARCHITECTURAL SPECIFICATIONS FOR COLOR, FINISHES AND CUSTOM ENGRAVING INFORMATION.
TYPICAL REQUIREMENTS FOR ROLL UP DOOR WITH DOOR POSITION SWITCH

REFERENCE NOTE:

ACCESS CONTROL CABLE WIRING SCHEDULE

<table>
<thead>
<tr>
<th>DESIGNATION</th>
<th>DESCRIPTION</th>
<th>PURPOSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>WHITE, 22 AWG-4/C - UNSHEELED</td>
<td>OPS</td>
</tr>
</tbody>
</table>
TYPICAL REQUIREMENTS FOR SINGLE DOOR WITH ELECTRIFIED EXIT HARDWARE

1. VIEW SHOWN IS FROM SECURED SIDE OF PORTAL. CONDUIT, BOXES AND EQUIPMENT SHALL BE MOUNTED ON SECURED SIDE OF PORTAL, UNLESS OTHERWISE NOTED.
2. CONDUITS MAY BE COMBINED, IF COMBINED, CONTRACTOR SHALL ENSURE CONDUIT IS SIZED TO ACCEPT REQUIRED CONDUCTORS.
3. COORDINATE MOUNTING LOCATIONS, ROUGH-IN AND FINISHES WITH THE OWNER.
4. CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
5. DOOR HARDWARE SHOWN FOR REFERENCE ONLY. TYPE OF HARDWARE MAY VARY.
6. INTEGRAL RXS SWITCH SHALL Bypass door alarm only.
7. PROVIDE CONDUIT IN WALL ONLY WHERE WIRING CANNOT BE ROUTED IN DOOR FRAME.
8. USE 3/4" CONDUIT FROM J-BOX TO DEVICE.
9. EXISTING BUILDINGS: SURVEY EACH LOCATION AND VERIFY CONDITION AND UTILIZATION OF CABLES AT EACH DEVICE.

REFERENCE NOTES:

1. PROVIDE 3/4" BUSHED STUB-OUT FROM J-BOX AND ONE PLENUM RATED COMPOSITE CABLE WITH WHITE OUTER JACKET (TYPE LT) AND ROUTE FROM JUNCTION BOX TO NEAREST RXS. REFER TO PLANS FOR CABLE DESTINATION AND TERMINATION POINTS. PROVIDE CONDUIT WHERE REQUIRED TO STC FOR PLENUM RATED CABLE(S).
2. PROVIDE ELECTRICITY EXIT HARDWARE WITH INTEGRATED REQUEST-TO-EXIT (RXS) SWITCH. CONNECT NON-LATCH SPEC. ELECTRICALLY TO POWER SUPPLY CUPS AT RXS LOCATION. FOR ELECTRIC LATCH, RXS RETRACTION, PROVIDE CONNECTION TO POWER SUPPLY. RXS LOCATED AT RXS REFER TO THE LIPS AND LIPS MANUFACTURER'S RECOMMENDED WIRE GAUGE FOR CABLE DISTANCE CIRCUIT FOR POWER SUPPLIES SHALL BE DEDICATED 120 VAC EMERGENCY POWER.
3. PROVIDE COMBINATION PROXIMITY/MAGNETIC SNAP CARD READER, FLUSH MOUNT AS J-BOX WITH SINGLE GANG RING ON UNSECURED SIDE. REFER TO FLOOR PLANS FOR LOCATION WHERE OCURS.
4. PROVIDE VON DUPRIN MODEL EP2T, SECURITRON MODEL CEPT OR SEPT ELECTRONIC POWER TRANSFER (EPT) HINGE FOR UPGRADES TO EXISTING WORK. COORDINATE EPT REQUIREMENTS FOR NEW WORK WITH DOOR HARDWARE CONTRACTOR.
5. WHERE REQUIRED ROUTE WIRING FROM LOWER LEVEL.

ACCESS CONTROL CABLE WIRING SCHEDULE

<table>
<thead>
<tr>
<th>DESIGNATION</th>
<th>DESCRIPTION</th>
<th>PURPOSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>DRWC 18 AWG-1/C - UNHEATED</td>
<td>LOCK CONTROL</td>
</tr>
<tr>
<td>COMPOSITE</td>
<td>WHITE, 22 AWG-1/C - SHIELDED</td>
<td>CARD READER</td>
</tr>
<tr>
<td>OVERALL JACKET</td>
<td>BLUE, 22 AWG-1/C - UNHEATED</td>
<td>REQUEST-TO-EXIT</td>
</tr>
</tbody>
</table>
1. View shown is from secured side of portal. Conduit, boxes and equipment shall be mounted on secured side of portal, unless otherwise noted.

2. Conduits may be combined; if combined, contractor shall ensure conduit is sized to accept required conductors.

3. Coordinate mounting locations, rough-in and finishes with the owner.

4. Conduit shall be concealed unless otherwise noted.

5. Door hardware shown for reference only. Type of hardware may vary.

6. Integral RX switch shall bypass door alarm only.

7. Provide conduit in wall only where wiring cannot be routed in door frame.

8. Use 3/4" conduit from J-box to device.

9. Existing buildings: Survey each location and verify condition and utilization of cables at each device.

REFERENCE NOTES:

1. Provide 1" bushed stub-out from J-box and one plenum rated composite cable with white outer jacket (Type L) to one of the cable shall be for connection of devices for each leaf route from junction box to nearest side, refer to plans for cable destination and termination points. Provide conduit where required to STC for plenum rated cables.

2. Provide combination proximity/magnetic swipe card reader, flush mount 4.5" J-box with single gang ring on entry side. Refer to floor plans for location where occurs.

3. Interface auto opener motor control with each system to ensure that motor cannot be engaged until a card is presented, operation requests by push plate or card authorization and push plate engage motor through each control. Verify door hardware schedule for auto opener receiver.

4. Coordinate installation of door position switch (DPS) and bypass of exterior entry during off-hour mode (typical).

5. Provide electrified mortise lock with integral request-to-exit (RTE) switch. Connect non-latch rod electrified lock to power supply (UPS) at STC location for electric latch rod retraction, provide connection to power supply (UPS) located at STC. Refer to the USP and LPS manufacturer's recommended wire gauge for cable distance. Circuit for power supplies shall be dedicated 120vac emergency power.

6. Provide safety relay for interface of auto opener with exterior ADA push plate (unsecured side).

7. Provide command access model ETHW electronic power transfer (EPT) module with 4" lead wire for existing work. Coordinate EPT requirements for new work with door hardware contractor.

WHERE REQUIRED ROUTE CABLE(S) FROM LEVEL BELOW.

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**ACCESS CONTROL CABLE WIRING SCHEDULE**

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<thead>
<tr>
<th>DESIGNATION</th>
<th>DESCRIPTION</th>
<th>PURPOSE</th>
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<tbody>
<tr>
<td>L COMPOSITE</td>
<td>ORC, 18 AWG-4C - UNSHIELDED</td>
<td>LOCK CONTROL</td>
</tr>
<tr>
<td>WHITE, 22 AWG-4C - SHIELDED</td>
<td>CARD READER</td>
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<tr>
<td>WHITE, 22 AWG-4C - UNSHIELDED</td>
<td>DPS</td>
<td></td>
</tr>
<tr>
<td>BLUE, 22 AWG-4C - UNSHIELDED</td>
<td>REQUEST TO EXIT</td>
<td></td>
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</table>
TYPICAL REQUIREMENTS FOR SINGLE DOOR WITH AUTO OPENER INTERFACE & ELECTRIC STRIKE LOCK

USC SECURITY SYSTEM GUIDELINES

123 Technology Drive
Irvine CA 92618
tel 949.727.0373
fax 949.727.7346

REFERENCE NOTES:

1. PROVIDE 1" BUSHED STUB-OUT FROM J-BOX AND ONE PLENUM RATED COMPOSITE CABLE WITH WHITE OUTER JACKET (TYPE L''). ONE L'' CABLE SHALL BE FOR CONNECTION OF DEVICES FOR EACH LEAF. ROUTE FROM JUNCTION BOX TO HIGHEST STC. REFER TO PLANS FOR CABLE DESTINATION AND TERMINATION POINTS. PROVIDE CONDUIT WHERE REQUIRED TO SVC FOR PLENUM RATED CABLE(S).

2. PROVIDE COMBINATION PROXIMITY/MAGNETIC STRIKE CARD READER, PUSH MOUNT AS J-BOX WITH SINGLE GAUGE B zug or ENTRY SIDE, REFER TO FLOOR PLANS FOR LOCATION WHERE OCCURS.

3. INTERFACE AUTO OPENER MOTOR CONTROL WITH EACH SYSTEM TO ENSURE THAT MOTOR CANNOT BE ENGAGED UNTIL A CARD IS PRESENTED. OPERATION REQUESTS (BY PUSH PLATE OR CARD AUTHORIZATION AND PUSH PLATE) ENGAGE MOTOR THROUGH EACH CONTROL, VERIFY HARDWARE SCHEDULE FOR AUTO OPENER RECIEVER.

4. PROVIDE MORTISE LOCK WITH INTERNAL REQUEST TO EXIT (REQ) SWITCH. CONNECT ELECTRIC STRIKE LOCK TO POWER SUPPLY (BPS) AT STC LOCATION. REFER TO THE MPS MANUFACTURER'S RECOMMENDED WIRE GAUGE FOR CABLE DISTANCE. CIRCUIT FOR POWER SUPPLIES SHALL BE DEDICATED 120VAC EMERGENCY POWER.

5. PROVIDE 24VDC RELAY FOR INTERFACE OF AUTO OPENER WITH EXTERIOR ADA PUSH PLATE (UNSEURED SIDE).

6. PROVIDE COMMAND ACCESS MODEL ETHERNET ELECTRONIC POWER TRANSFER (EPT) WIRE WITH 4-LOAD WIRE FOR UPGRADES TO EXISTING WORK. COORDINATE EPT REQUIREMENTS FOR NEW WORK WITH DOOR HARDWARE CONTRACTOR.

WHERE REQUIRED ROUTE CABLE(S) FROM LEVEL BELOW.

ACCESS CONTROL CABLE WIRING SCHEDULE

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<td>L</td>
<td>GRAV. 18 AWG-4/C - UNBILLEDE</td>
<td>LOCK CONTROL</td>
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<tr>
<td>C</td>
<td>ORANGE, 22 AWG-4/C - SHIELDED</td>
<td>CARD READER</td>
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<tr>
<td>W</td>
<td>WHITE, 22 AWG-4/C - UNBILLED</td>
<td>CARD READER</td>
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<tr>
<td>S</td>
<td>BLUE, 22 AWG-4/C - UNBILLED</td>
<td>REQUEST TO EXIT</td>
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TYPICAL REQUIREMENTS FOR STOREFRONT SINGLE DOOR WITH ELECTRIFIED EXIT HARDWARE

GENERAL NOTES:
1. VIEW SHOWN IS FROM SECURED SIDE OF Portal. CONDUIT, BOXES AND EQUIPMENT SHALL BE MOUNTED ON SECURED SIDE OF Portal, UNLESS OTHERWISE NOTED.
2. CONDUITS MAY BE COMBINED. IF COMBINED, CONTRACTOR SHALL ENSURE CONDUIT IS SIZED TO ACCEPT REQUIRED CONDUCTORS.
3. COORDINATE MOUNTING LOCATIONS, ROUGH-IN AND FINISHES WITH THE OWNER.
4. CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
5. DOOR HARDWARE SHOWN FOR REFERENCE ONLY. TYPE OF HARDWARE MAY VARY.
6. INTEGRAL EXIT SWITCH SHALL BYPASS DOOR ALARM ONLY.
7. PROVIDE CONDUIT IN WALL ONLY WHERE WIRING CANNOT BE ROUTED IN DOOR FRAME.
8. USE 3/4" CONDUIT FROM J-BOX TO DEVICE.
9. EXISTING BUILDINGS: SURVEY EACH LOCATION AND VERIFY CONDITION AND UTILIZATION OF CABLES AT EACH DEVICE.

REFERENCE NOTES:
9. PROVIDE 3/4" BUSUED STUB-OUT FROM J-BOX AND ONE PLUGGED RATED COMPOSITE CABLE WITH WIRE OUTER JACKET (TYPE T). ROUTE FROM JUNCTION BOX TO NEAREST STC. REFER TO PLANS FOR CABLE DESTINATION AND TERMINATION POINTS. PROVIDE CONDUIT WHERE REQUIRED TO STC FOR PLUGGED RATED CABLE(S).

9. PROVIDE ELECTRIFIED EXIT HARDWARE WITH INTEGRATED REQUEST-TO-EXIT (RTEX) SWITCH. CONNECT NON-LATCH ROD ELECTRIFIED LOCK TO POWER SUPPLY (UPS) AT STC LOCATION. FOR ELECTRIC LATCH ROD RESTRUCTION, PROVIDE CONNECTION TO POWER SUPPLY (UPS). LOCATED AT STC. REFER TO THE UPS AND UPS MANUFACTURER'S RECOMMENDED WIRE GAUGE FOR WIRE DISTANCE. CIRCUIT FOR POWER SUPPLIES SHALL BE DEDICATED 120VAC EMERGENCY POWER.

9. PROVIDE COMBINATION PROXIMITY/MAGNETIC SWPC CARD READER; FLUSH MOUNT 48" J-BOX WITH SINGLE GANG BOX ON ENTRY SIDE. REFER TO FLOOR PLANS FOR LOCATION WHERE OCCURS.
9. PROVIDE 30A GFI PROTECTOR UNIT, RTEX, SECURITY LITE, CEPT OR SEPT ELECTRONIC POWER TRANSFER (EPT) HINGE FOR UPGRADES TO EXISTING WORK. COORDINATE EPT REQUIREMENTS FOR NEW WORK WITH DOOR HARDWARE CONTRACTOR.

ACCESS CONTROL CABLE WIRING SCHEDULE

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<tr>
<td>L</td>
<td>GRAY, 18 AWG-4/C - UNBLED</td>
<td>LOCK CONTROL</td>
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<tr>
<td>W</td>
<td>WHITE, 22 AWG-4/C - SHIELDED</td>
<td>CARD READER</td>
</tr>
<tr>
<td>W</td>
<td>WHITE, 22 AWG-4/C - SHIELDED</td>
<td>DPS</td>
</tr>
<tr>
<td>W</td>
<td>BLUE, 22 AWG-4/C - UNBLED</td>
<td>REQUEST TO EXIT</td>
</tr>
</tbody>
</table>
TYPICAL REQUIREMENTS FOR STOREFRONT SINGLE DOOR WITH AUTO OPENER INTERFACE & ELECTRIFIED EXIT HARDWARE

REFERENCE NOTES:

1. PROVIDE 1" BUSHED STUB-OUT FROM J-BOX AND ONE PLATINUM RATED COMPOSITE CABLE WITH WHITE OUTER JACKET TYPE "E". ONE "E" CABLE SHALL BE FOR CONNECTIONS OF DEVICES FOR EACH LEAF. ROUTE FROM JUNCTION BOX TO NEAREST STC. REFER TO PLANS FOR CABLE DESTINATION AND TERMINATION POINTS.

2. PROVIDE COMBINATION PROXIMITY/MAGNETIC SWIPE CARD READER. PUSH MOUNT AS J-BOX WITH SINGLE GANG RING ON ENTRY SIDE. REFER TO FLOOR PLANS FOR LOCATION WHERE OCCURS.

3. INTERFACE AUTO OPENER MOTOR CONTROL WITH FACIAL SYSTEM TO ENSURE THAT MOTOR CANNOT BE ENGAGED UNTIL A CARD IS PRESENTED. OPERATION REQUESTS (BY PUSH PLATE OR CARD AUTHORIZATION AND PUSH PLATE) ENGAGE MOTOR THROUGH EACH CONTROL. PLACE THE PUSH PLATE TO REX IN ADDITION TO DOOR OPEN FEATURE.

4. COORDINATE INSTALLATION OF DOOR POSITION SWITCH (DPS) AND BYPASS OF EXTERIOR ENTRY DURING O/H MODE (TYPICAL).

5. PROVIDE ELECTRIFIED EXIT HARDWARE WITH INTEGRAL REQUEST-TO-EXIT (RTEX) SWITCHES. CONNECT NON-LATCH ROD ELECTRIC LATCH TO POWER SUPPLY (UPS) AT STC LOCATION. FOR ELECTRIC LATCH ROD RETRACTION, PROVIDE CONNECTION TO POWER SUPPLY (UPS). LOCATED AT STC. REFER TO THE UPS AND LPS MANUFACTURER'S RECOMMENDED WIRE GAUGE FOR CABLE DISTANCE. CIRCUIT FOR POWER SUPPLIES SHALL BE DEDICATED 120V AC EMERGENCY POWER.

6. PROVIDE VON DURMANN MODEL EPTZ, SECURETRON MODEL CEPT OR FACTO ELECTRONIC POWER TRANSFER (EPT) HINGE FOR UPGRADES TO EXISTING WORK. COORDINATE EPT REQUIREMENTS FOR NEW WORK WITH DOOR HARDWARE CONTRACTOR.

7. PROVIDE 24VDC RELAY FOR INTERFACE OF AUTO OPENER WITH EXTERIOR ADA PUSH PLATE (UNSECURED SIDE).

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</tr>
<tr>
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<td>DPS</td>
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<tr>
<td>B</td>
<td>BLUE 22 AWG-2/C - UNSHIELDED</td>
<td>REQUEST-TO-EXIT</td>
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1. View shown is from secured side of portal. Conduit, boxes and equipment shall be mounted on secured side of portal, unless otherwise noted.
2. Conduits may be combined. If combined, contractor shall ensure conduit is sized to accept required conductors.
3. Coordinate mounting locations, rough-in and finishes with the owner.
4. Surface mounted gate position switches to be installed with tamper-proof screws.
5. Door hardware shown for reference only. Type of hardware may vary.
6. Provide conduit in wall only where wiring cannot be routed in door frame.
7. Use 3/4" conduit from J-box to device.
8. Existing buildings: survey each location and verify condition and utilization of cables at each device.

REFERENCE NOTES:

1. Provide 1-1/4" conduit from J-box and one plenum-rated cable with white outer jacket (Type TF) and route from junction box to nearest STC. Refer to plans for cable destination and termination points. Provide conduit where required to STC inside building for plenum-rated cables.
2. Provide surface RGD conduit and route along fence to building. Secure conduit every 4' minimum.
3. Provide 1-gang weatherproof box, secured to fence or posts (typical).

ACCESS CONTROL CABLE WIRING SCHEDULE

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<tbody>
<tr>
<td>A</td>
<td>WHITE, 22 AWG, 1/4&quot; - UNINSULATED</td>
<td>DPS</td>
</tr>
</tbody>
</table>

GATE IS MONITORED
TYPICAL REQUIREMENTS FOR STC, POWER SUPPLY AND DOOR POWER SUPPLY COVERS

STC ENCLOSURE COVER

120 VAC POWER SOURCE
VOLTAGE 12 OR 24

ACCESS CONTROL EQUIPMENT
POWER SUPPLY

ACCESS CONTROL DOOR LOCK
POWER SUPPLY

INDICATE DATE OF INSTALLATION ON EACH BATTERY

INTERIOR INFORMATION REQUIRED

EXTERIOR LABEL INFORMATION REQUIRED.

POWER SUPPLY COVER

DOOR POWER SUPPLY COVER

120 VAC POWER SOURCE
CIRCUIT 

DOOR POWER SUPPLY
DOOR 

INTERIOR INFORMATION REQUIRED

EXTERIOR LABEL INFORMATION REQUIRED.

NAME OF INTEGRATOR / WARRANTY DATE

INTERIOR INFORMATION REQUIRED

STC ENCLOSURE COVER

REFERENCE NOTES:

1 PROVIDE AS-BUILD DRAWING PLAN OF AREA SERVED BY ASSEMBLY.
2 PROVIDE AS-BUILD LAYOUT PLAN OF EQUIPMENT IN THIS ASSEMBLY AND WITH SOFTWARE IDENTIFICATION, HARDWARE ADDRESS SWITCH SETTING OF EACH CONTROLLER OR BOARD.
3 PROVIDE AS-BUILD DEVICES IP AND MAC ADDRESSES
4 PROVIDE ENGRAVED LABELS.

USC SECURITY SYSTEM GUIDELINES

123 Technology Drive
Irvine CA 92618
tel 949.727.0373
fax 949.727.7346

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3 PROVIDE AS-BUILD DEVICES IP AND MAC ADDRESSES
4 PROVIDE ENGRAVED LABELS.

PROJECT TITLE: USC SECURITY SYSTEM GUIDELINES
PROJECT No.: 201050
DESIGNED BY: KK
DATE: 07/26/2013
SCALE: NTS

DWG NAME: TYPICAL REQUIREMENTS FOR STC, POWER SUPPLY AND DOOR POWER SUPPLY COVERS
DRAWN BY: DC/MTH
DWG No. STC-002