

Plot Date: 06-DEC-2018 11:45:50 AM

User: svcPW

PlotScale: 1:1

Model: Layout1

ColorTable: gshade.ctb DesignScript: Carollo_Sld_Pen_v0905.pen

1 2 3 4 5 6 7 8 9 10 11 12 13

A

B

C

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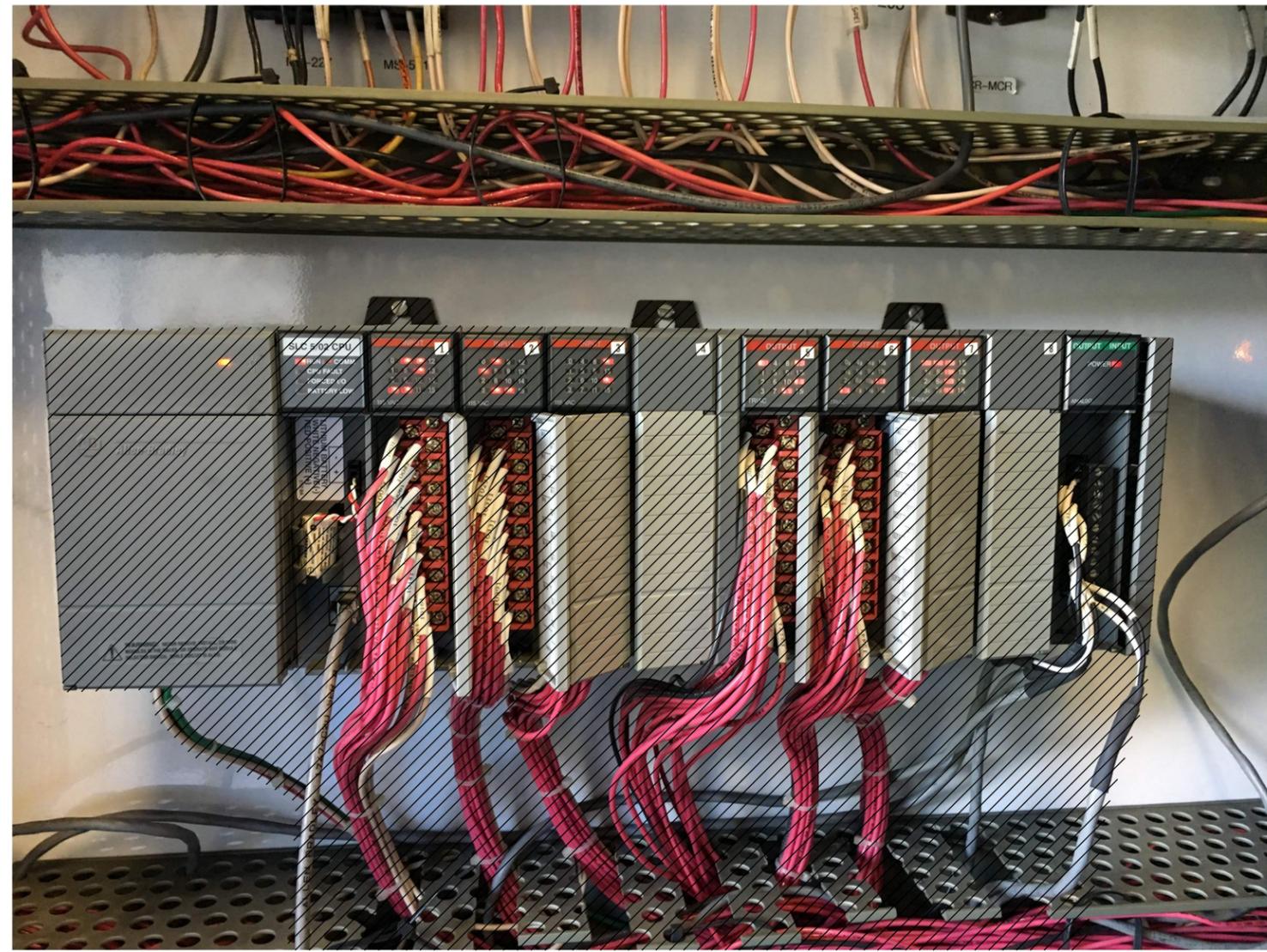
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GENERAL NOTES:

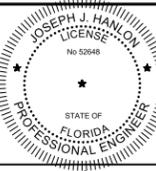
1. ITEMS SHOWN IN HATCHED AREA TO BE REMOVED.
2. FIELD INVESTIGATION OF THIS CONTROL PANEL BY THE CONTRACTOR IS NECESSARY.
3. ALL EXISTING OPERATION CONTROL SIGNALS WILL BE ROUTED TO THE NEW PLC IN EXISTING VENDOR CONTROL PANEL IN THE CARBON SILO BUILDING FROM THE EXISTING RTU NO. 8.
4. CONTRACTOR TO DEVELOP A CUT OVER PLAN PRIOR TO EXECUTING THE INSTALLATION OF NEW PLC AND REMOVAL OF EXISTING EQUIPMENT IN RTU.
5. AFTER APPROVAL OF CUT OVER PLAN, TRANSFER ALL I/O WIRING FROM HSQ EQUIPMENT TO NEW ALLEN BRADLEY PLC.
6. DRAWING ILLUSTRATES DESIGN INTENT ONLY. PROVIDE ALL NECESSARY COMPONENTS TO MEET PROJECT REQUIREMENTS.
7. MIGRATE EXISTING PLC PROGRAM FROM SLC 500/RS LOGIX 500 SOFTWARE TO RS LOGIX 5000 SOFTWARE. NO CHANGES TO CONTROL STRATEGIES OR LOGIC ARE REQUIRED.
8. REMOVE EXISTING SLC 500 PLC AND REPLACE WITH NEW COMPACT LOGIX PLC. USE SIMILAR I/O MODULES, VOLTAGE LEVELS FOR DISCRETE MODULES, AND ANALOG MODULES WITH NEW COMPACT LOGIX PLC.



1 FRONT
FILE: 1071611002DN009A

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED
JH
DRAWN
ANW
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NEA
DATE
DECEMBER 2018



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MANATEE COUNTY
LAKE MANATEE WTP SCADA UPGRADE
INSTRUMENTATION
CARBON SILO VENDOR CONTROL PANEL PLC
DEMOLITION

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

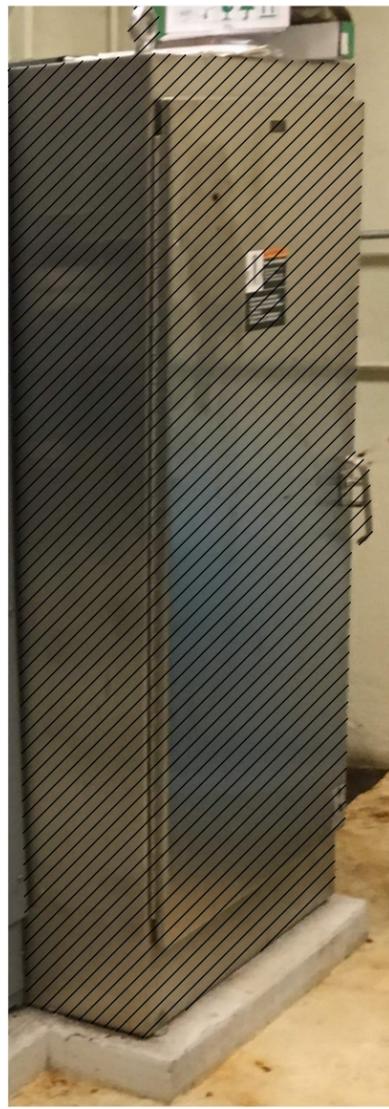
JOB NO.
107161.10
DRAWING NO.
02DN09
SHEET NO.
43 OF 84

Plot Date: 06-DEC-2018 11:47:09 AM
 User: svcPW
 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sig_Pen_v0905.pen PlotScale: 1:1
 LAST SAVED BY: AWillard

1 2 3 4 5 6 7 8 9 10 11 12 13

A B C D E F

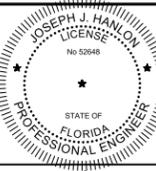
- GENERAL NOTES:**
1. ITEMS SHOWN IN HATCHED AREA TO BE REMOVED.
 2. FIELD INVESTIGATION OF THIS CONTROL PANEL BY THE CONTRACTOR IS NECESSARY.
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 6. DRAWING ILLUSTRATES DESIGN INTENT ONLY. PROVIDE ALL NECESSARY COMPONENTS TO MEET PROJECT REQUIREMENTS.



1 FRONT
FILE: 1071611002DN010A

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 DATE
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MANATEE COUNTY
 LAKE MANATEE WTP SCADA UPGRADE
 INSTRUMENTATION
 NW GROUND STORAGE AND PUMP STATION
 DEMOLITION

VERIFY SCALES
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 0 1"
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JOB NO.
 107161.10
 DRAWING NO.
02DN10
 SHEET NO.
 44 OF 84

Plot Date: 06-DEC-2018 11:45:50 AM

User: svcPW

Plot Scale: 1:1

Model: Layout1

ColorTable: gshade.ctb

DesignScript: Carollo_Sig_Pen_v0905.pen

1 2 3 4 5 6 7 8 9 10 11 12 13

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GENERAL NOTES:

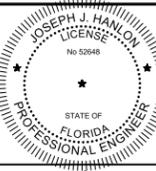
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1 FRONT
FILE: 1071611002DN011A

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MANATEE COUNTY
LAKE MANATEE WTP SCADA UPGRADE
INSTRUMENTATION
CORTEZ GROUND STORAGE AND
BOOSTER STATION RTU DEMOLITION

VERIFY SCALES
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JOB NO.
107161.10
DRAWING NO.
02DN11
SHEET NO.
45 OF 84

Plot Date: 06-DEC-2018 11:47:49 AM

User: svcPW

Plot Scale: 1:1

Model: Layout1

ColorTable: gshade.ctb

DesignScript: Carollo_Sig_Pen_v0905.pen

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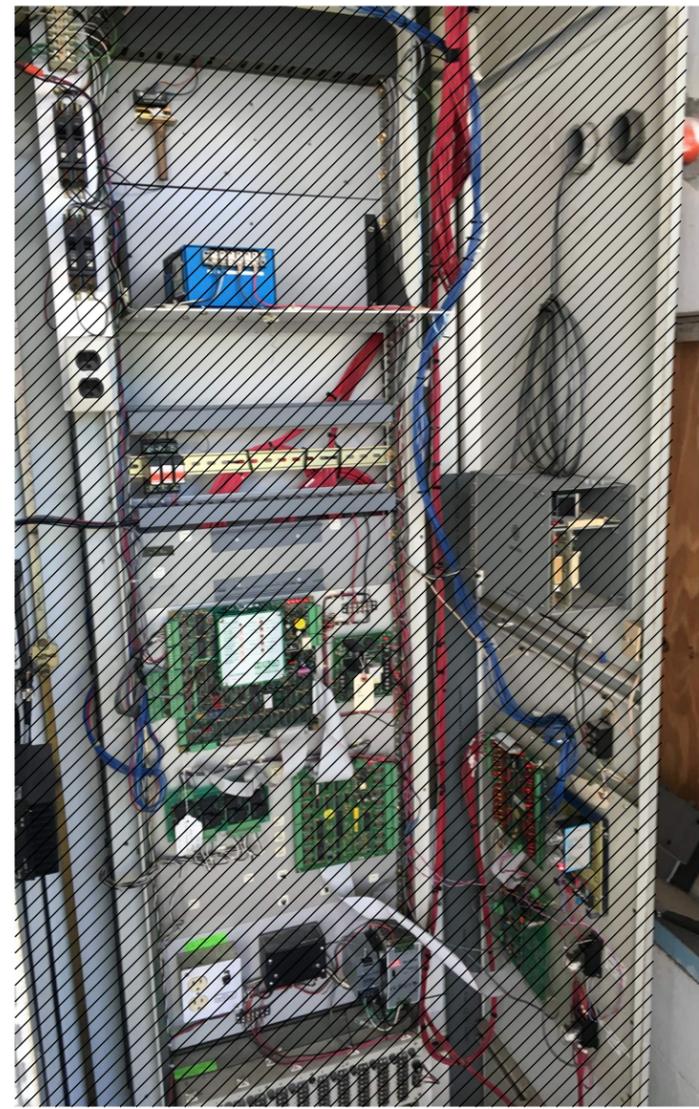
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GENERAL NOTES:

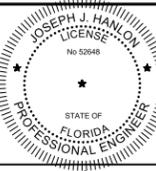
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1 FRONT
FILE: 1071611002DN012A

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MANATEE COUNTY
LAKE MANATEE WTP SCADA UPGRADE
INSTRUMENTATION
ELLWOOD PARK NO. 1 RTU DEMOLITION

VERIFY SCALES
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0 1"
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JOB NO.
107161.10
DRAWING NO.
02DN12
SHEET NO.
46 OF 84

Plot Date: 06-DEC-2018 11:46:50 AM

User: svcFW

Model: Layout1

ColorTable: gshade.ctb

DesignScript: Carollo_Sig_Pen_v0905.pen

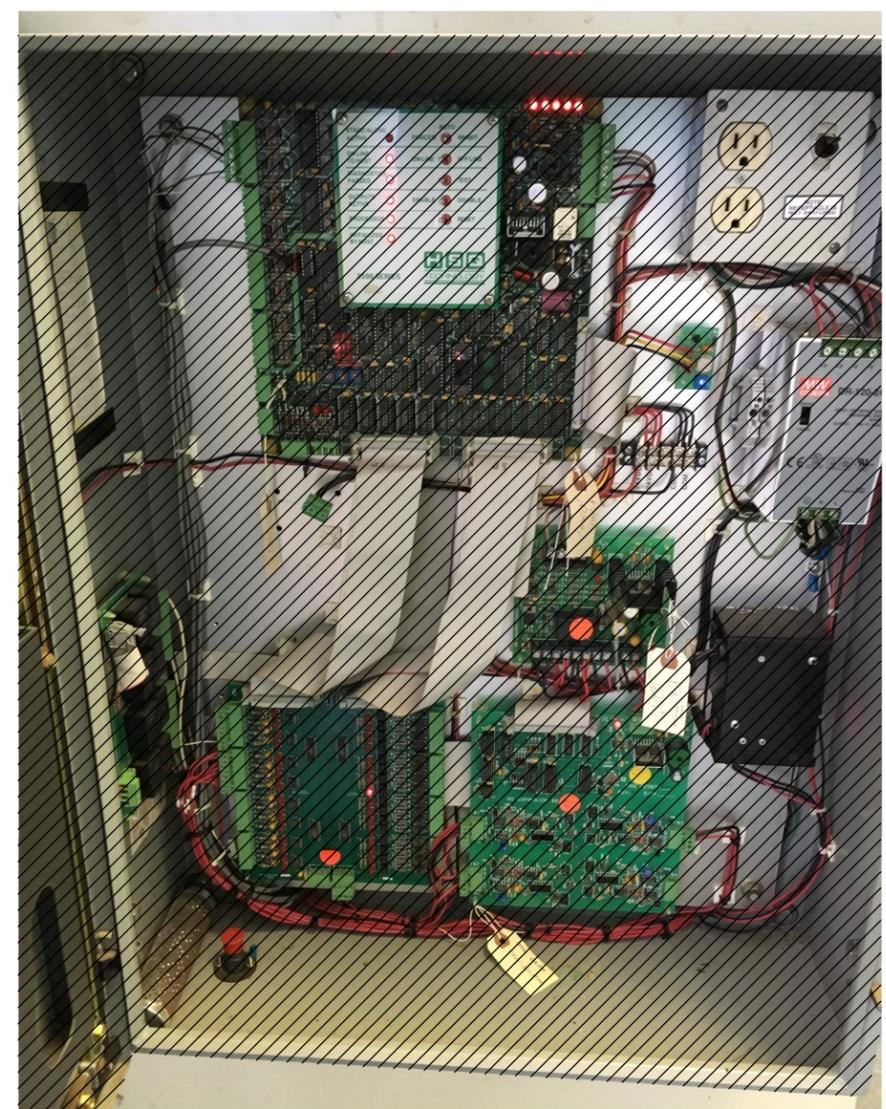
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1 RADIO PANEL
FILE: 1071611002DN013A



2 HSQ ENCLOSURE
FILE: 1071611002DN013B

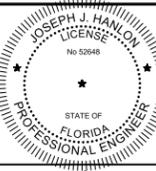


3 HSQ ENCLOSURE BACK PANEL
FILE: 1071611002DN013C

- GENERAL NOTES:**
1. ITEMS SHOWN IN HATCHED AREA TO BE REMOVED.
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REV	DATE	BY	DESCRIPTION

DESIGNED
JHH
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DATE
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MANATEE COUNTY
LAKE MANATEE WTP SCADA UPGRADE
INSTRUMENTATION
ELLWOOD PARK NO. 2 RTU DEMOLITION

VERIFY SCALES
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0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
107161.10
DRAWING NO.
02DN13
SHEET NO.
47 OF 84

Plot Date: 06-DEC-2018 11:47:42 AM

User: svcPW

Plot Scale: 1:1

Model: Layout1

ColorTable: gshade.ctb

DesignScript: Carollo_Sig_Pen_v0905.pen

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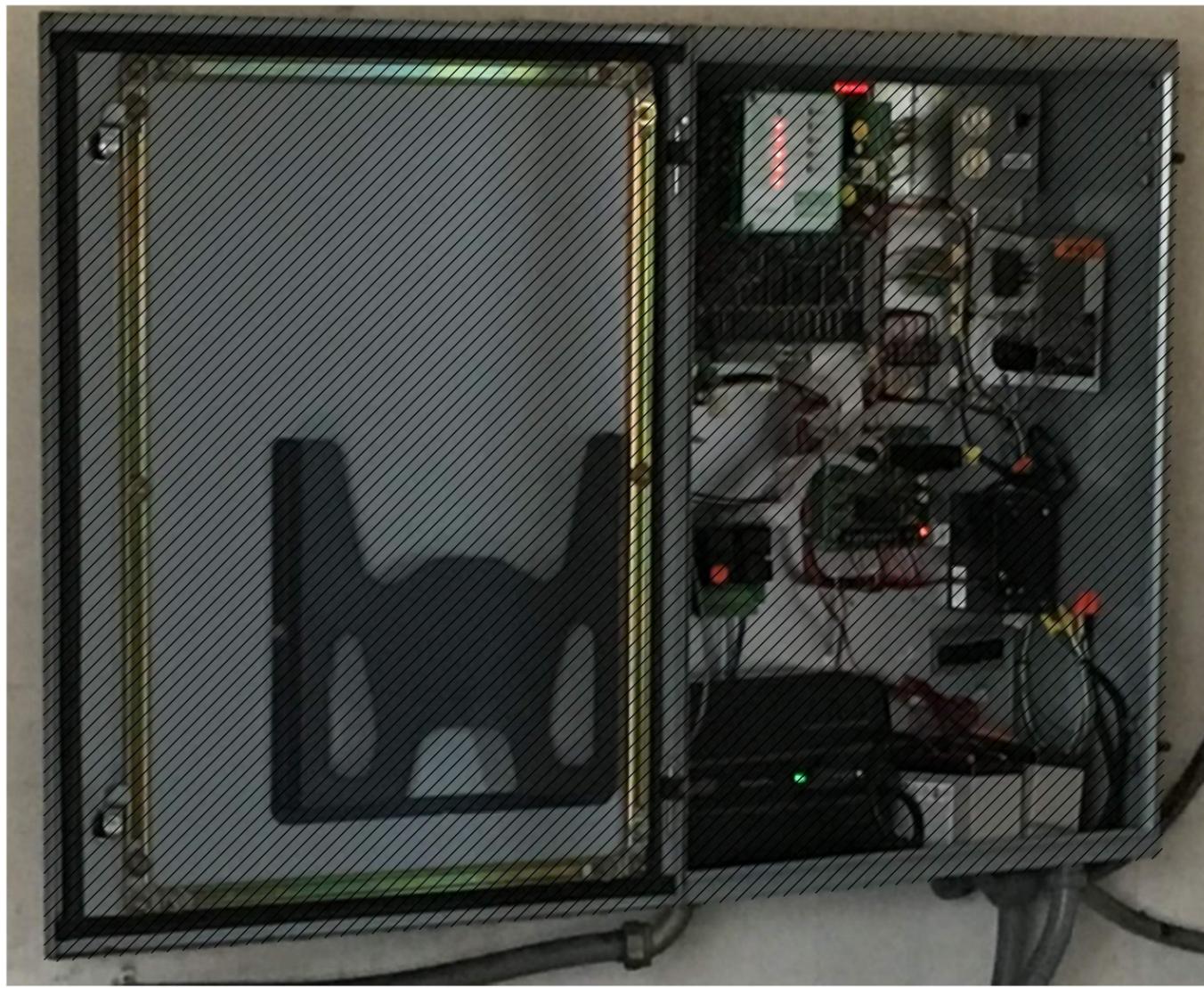
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GENERAL NOTES:

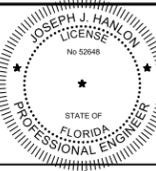
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6. DRAWING ILLUSTRATES DESIGN INTENT ONLY. PROVIDE ALL NECESSARY COMPONENTS TO MEET PROJECT REQUIREMENTS.



1 FRONT
FILE: 1071611002DN014A

REV	DATE	BY	DESCRIPTION

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DATE DECEMBER 2018



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MANATEE COUNTY
LAKE MANATEE WTP SCADA UPGRADE
INSTRUMENTATION
HOSPITAL BOOSTER STATION RTU
DEMOLITION

VERIFY SCALES
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JOB NO.
107161.10
DRAWING NO.
02DN14
SHEET NO.
48 OF 84

Plot Date: 06-DEC-2018 11:49:28 AM

User: svcPW

Plot Scale: 1:1

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sld_Pen_v0905.pen

LAST SAVED BY: AWillard

1 2 3 4 5 6 7 8 9 10 11 12 13

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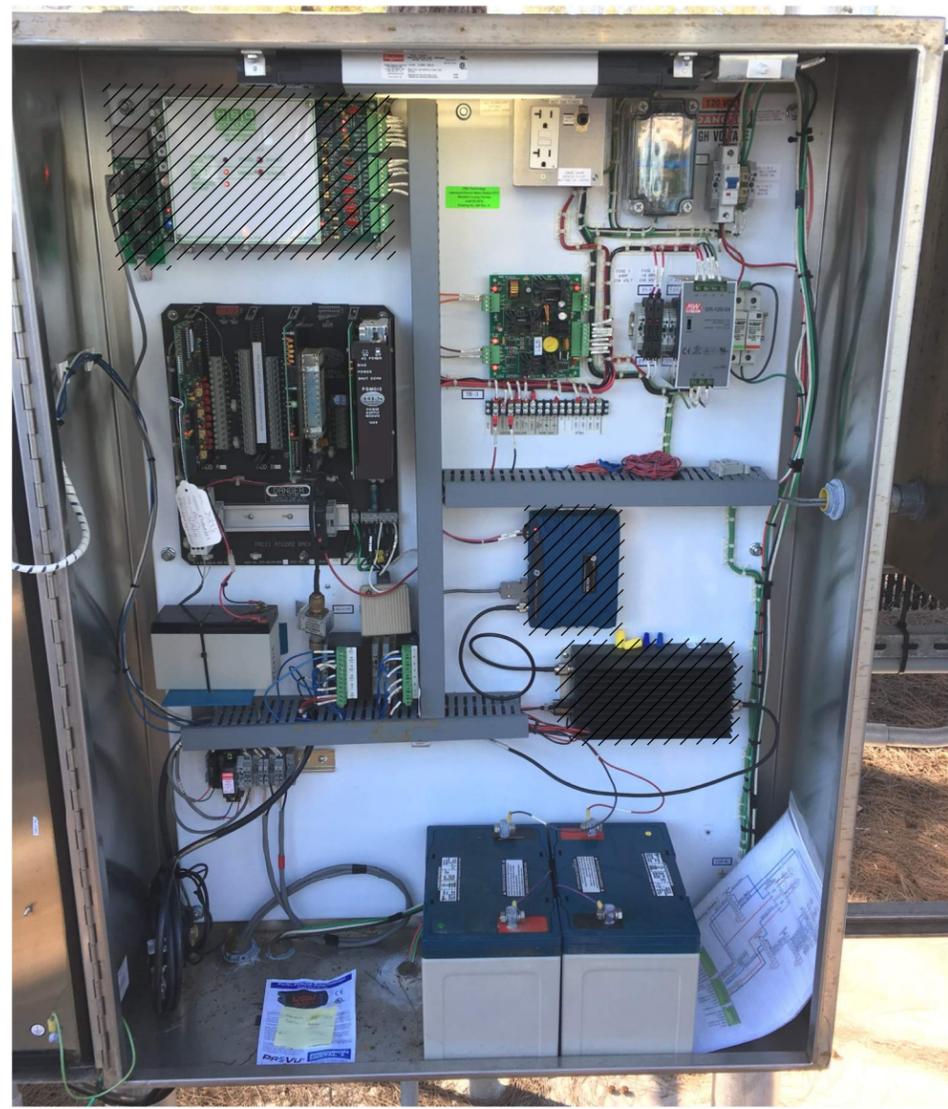
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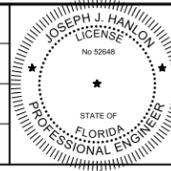
GENERAL NOTES:

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5. AFTER APPROVAL OF CUT OVER PLAN, TRANSFER ALL I/O WIRING FROM HSQ EQUIPMENT TO NEW ALLEN BRADLEY PLC.
6. REMOVE HSQ RTU AND ASSOCIATED EQUIPMENT.
7. MOUNT NEW PLC AND ASSOCIATED EQUIPMENT AFTER REMOVAL OF HSQ EQUIPMENT.
8. REMOVE HSQ RTU EQUIPMENT AND TURN OVER EQUIPMENT TO OWNER.
9. DRAWING ILLUSTRATES DESIGN INTENT ONLY. PROVIDE ALL NECESSARY COMPONENTS TO MEET PROJECT REQUIREMENTS.

1 FRONT
FILE: 1071611002N014A

REV	DATE	BY	DESCRIPTION

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DECEMBER 2018



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MANATEE COUNTY
LAKE MANATEE WTP SCADA UPGRADE
INSTRUMENTATION
LONG BOAT KEY PANEL DEMOLITION

VERIFY SCALES
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0 1"
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JOB NO.
107161.10
DRAWING NO.
02DN15
SHEET NO.
49 OF 84

Plot Date: 06-DEC-2018 11:45:18 AM

User: svcPW

Plot Scale: 1:1

Model: Layout1

ColorTable: gshade.ctb

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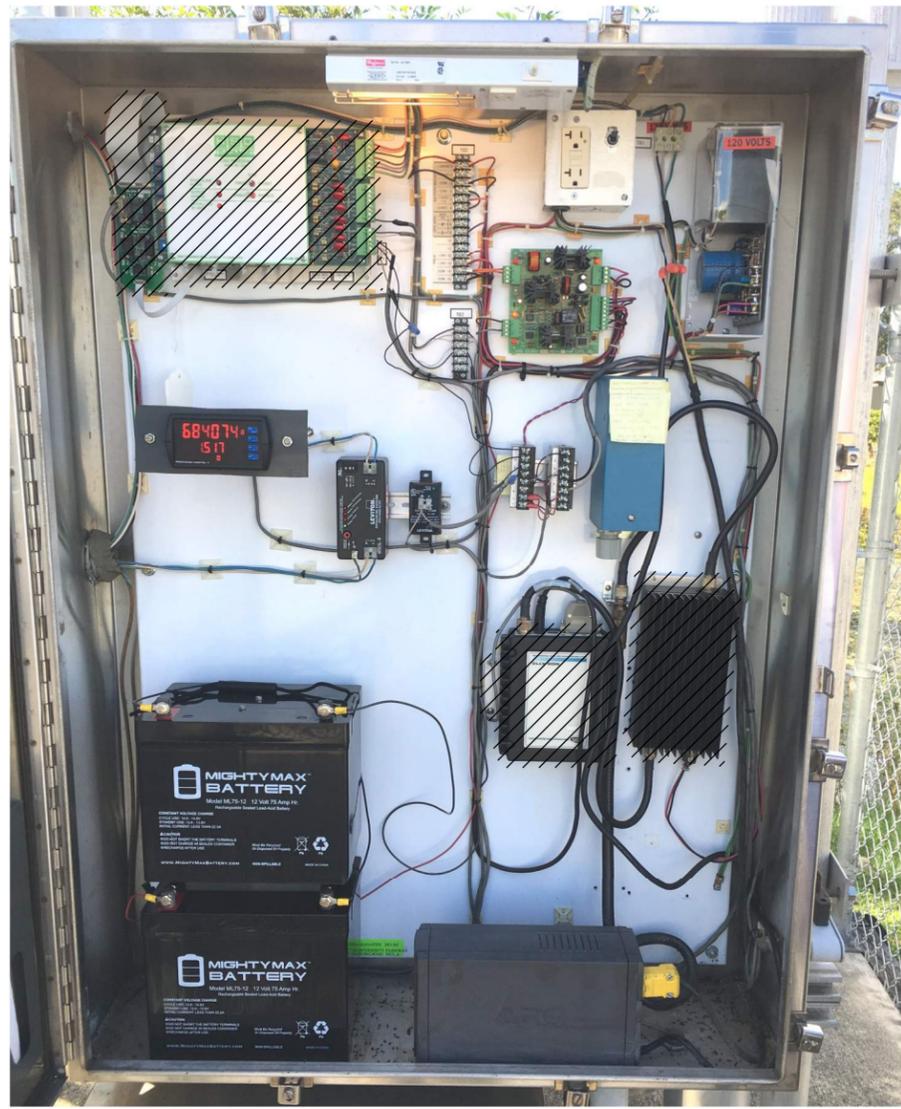
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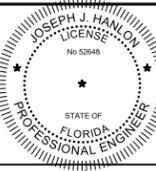
1 FRONT
FILE: 1071611002N015A

GENERAL NOTES:

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REV	DATE	BY	DESCRIPTION

DESIGNED
JHJ
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MANATEE COUNTY
LAKE MANATEE WTP SCADA UPGRADE
INSTRUMENTATION
SARASOTA METER STATION PANEL
DEMOLITION

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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JOB NO.
107161.10
DRAWING NO.
02DN16
SHEET NO.
50 OF 84

Plot Date: 06-DEC-2018 11:45:00 AM

User: svcPW

Model: Layout1

ColorTable: gshade.ctb

LAST SAVED BY: AWillard

1 2 3 4 5 6 7 8 9 10 11 12 13

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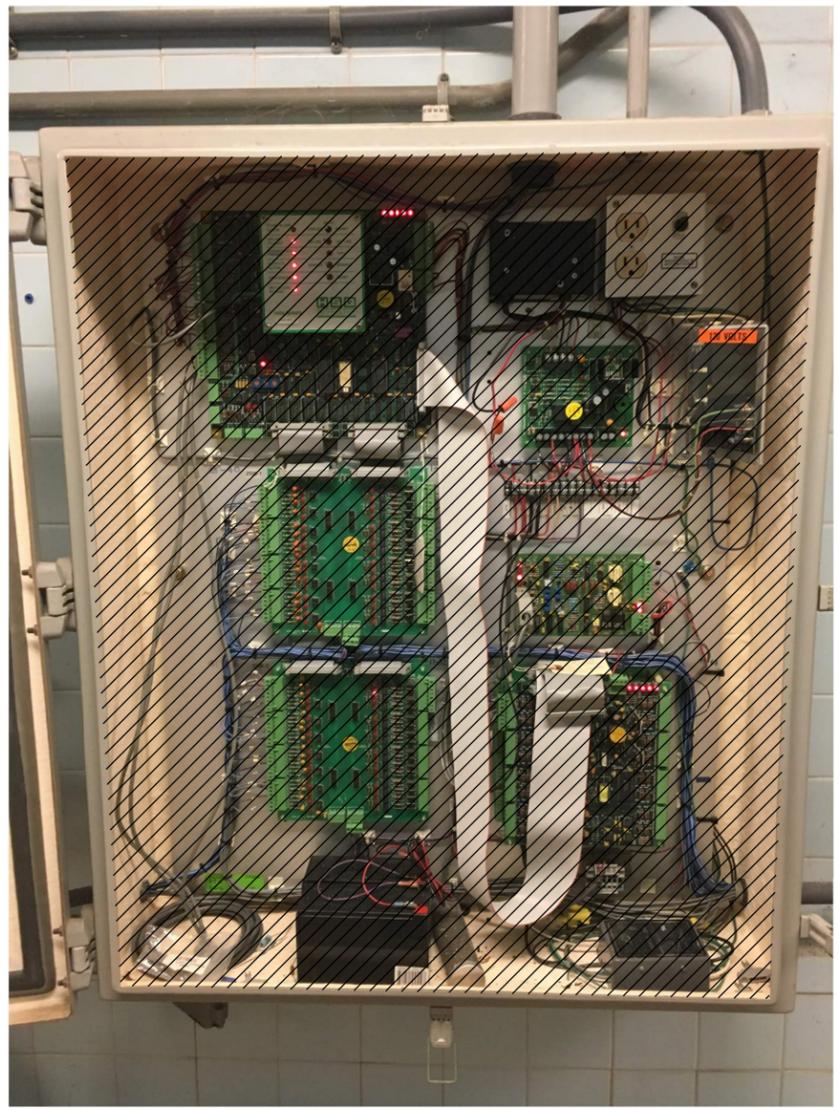
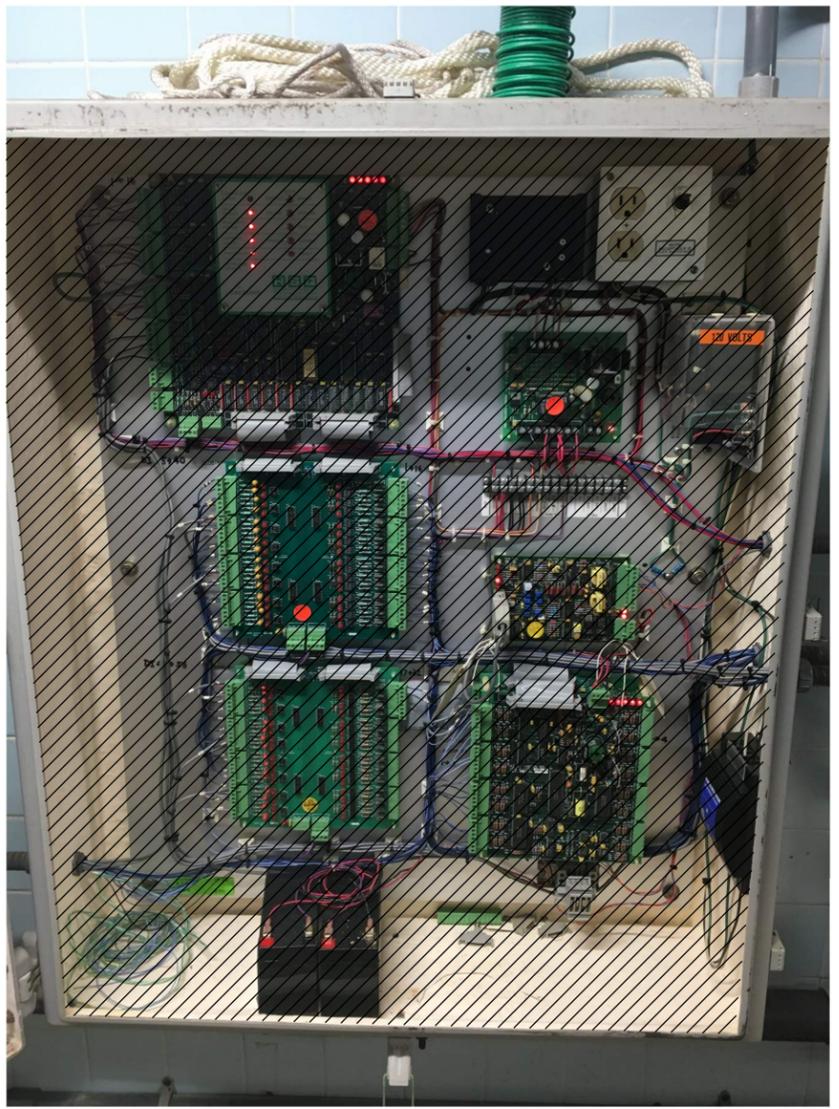
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GENERAL NOTES:

1. ITEMS SHOWN IN HATCHED AREA TO BE REMOVED.
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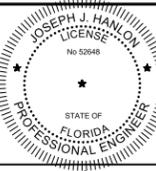


1 TRAIN A - RTU 50
FILE: 1071611002DN017A

2 TRAIN B - RTU 51
FILE: 1071611002DN017A

REV	DATE	BY	DESCRIPTION
1			
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AMA
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DECEMBER 2018



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MANATEE COUNTY
LAKE MANATEE WTP SCADA UPGRADE
INSTRUMENTATION
WTP TRAIN A AND TRAIN B RTU DEMOLITION

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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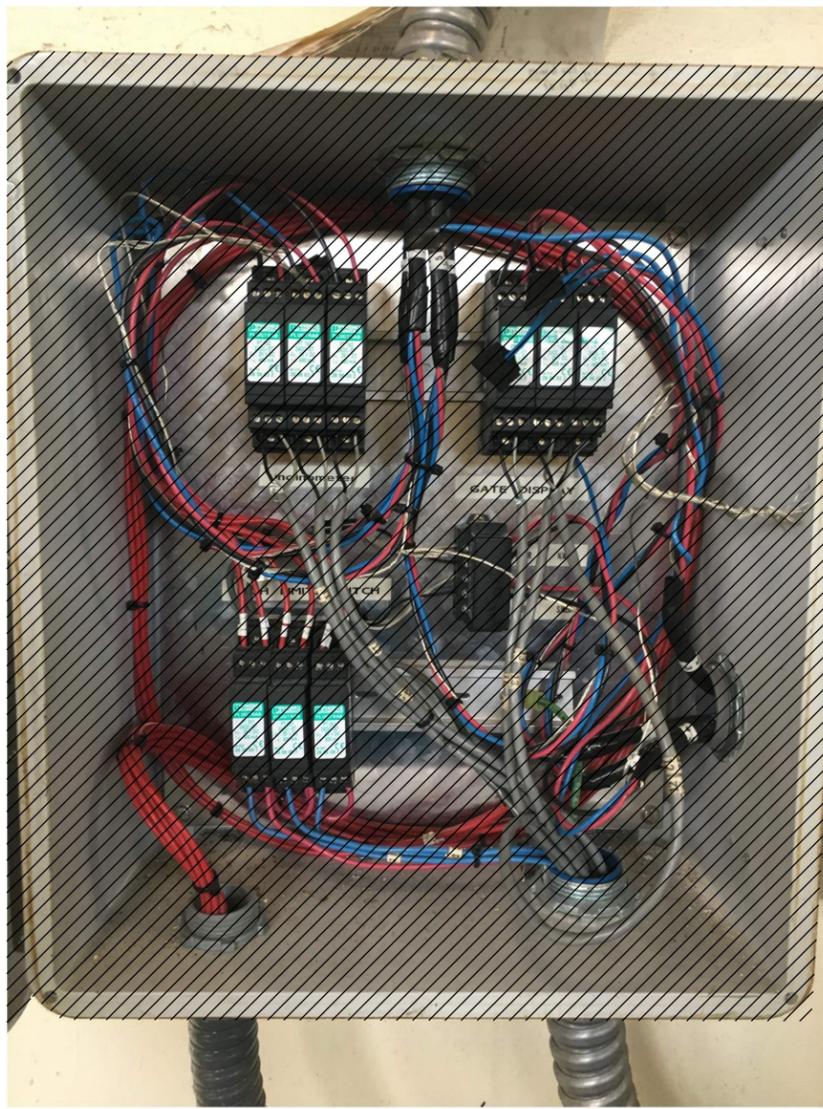
JOB NO.
107161.10
DRAWING NO.
02DN17
SHEET NO.
51 OF 84

Plot Date: 06-DEC-2018 11:45:08 AM

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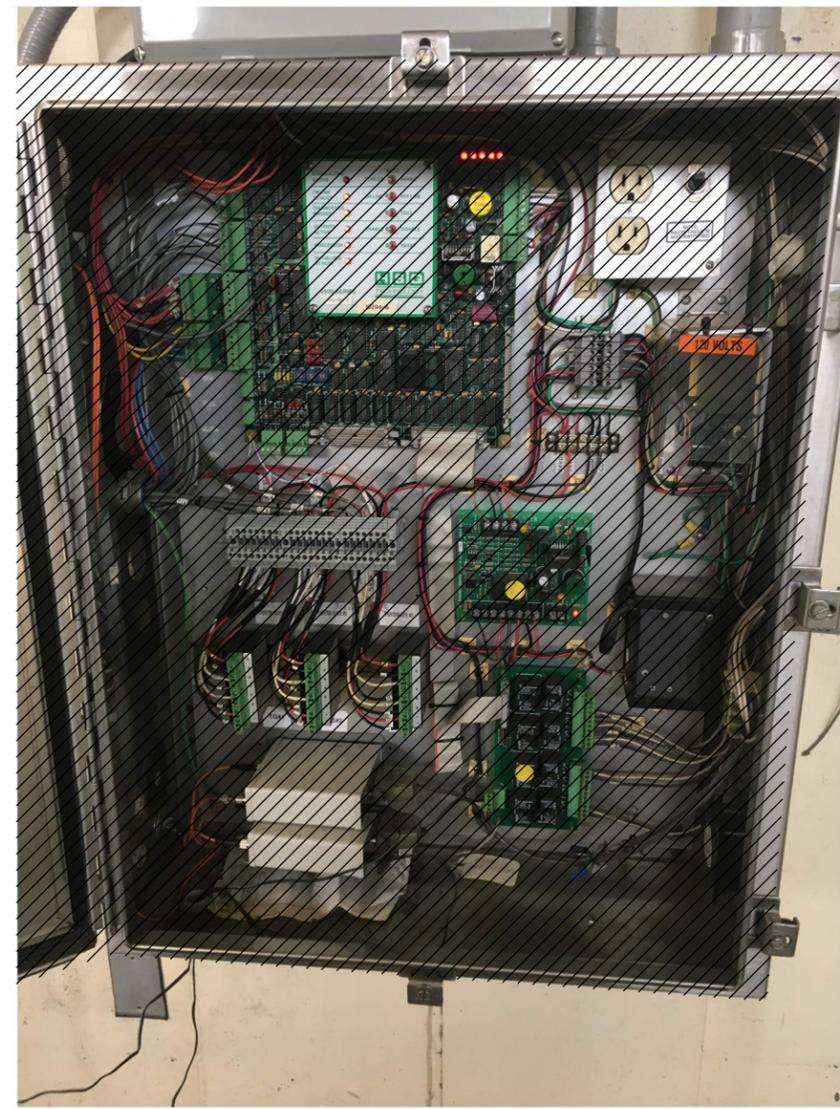
LAST SAVED BY: AWillard



1 SURGE SUPPRESSOR PANEL
FILE: 1071611002DN018A



2 FRONT
FILE: 1071611002DN018B

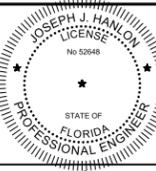


3 HSQL PANEL
FILE: 1071611002DN018C

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REV	DATE	BY	DESCRIPTION

DESIGNED
AMA
DRAWN
ANW
CHECKED
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DATE
DECEMBER 2018



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MANATEE COUNTY
LAKE MANATEE WTP SCADA UPGRADE
INSTRUMENTATION
RAW WATER NO. 1 RTU DEMOLITION

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
10716110
DRAWING NO.
02DN18
SHEET NO.
52 OF 84

Plot Date: 06-DEC-2018 11:49:37 AM

User: svcPW

Plot Scale: 1:1

Design Script: Carollo_Sid_Pen_v0905.pen

Color Table: gshade.ctb

Model: Layout1

LAST SAVED BY: AWillard

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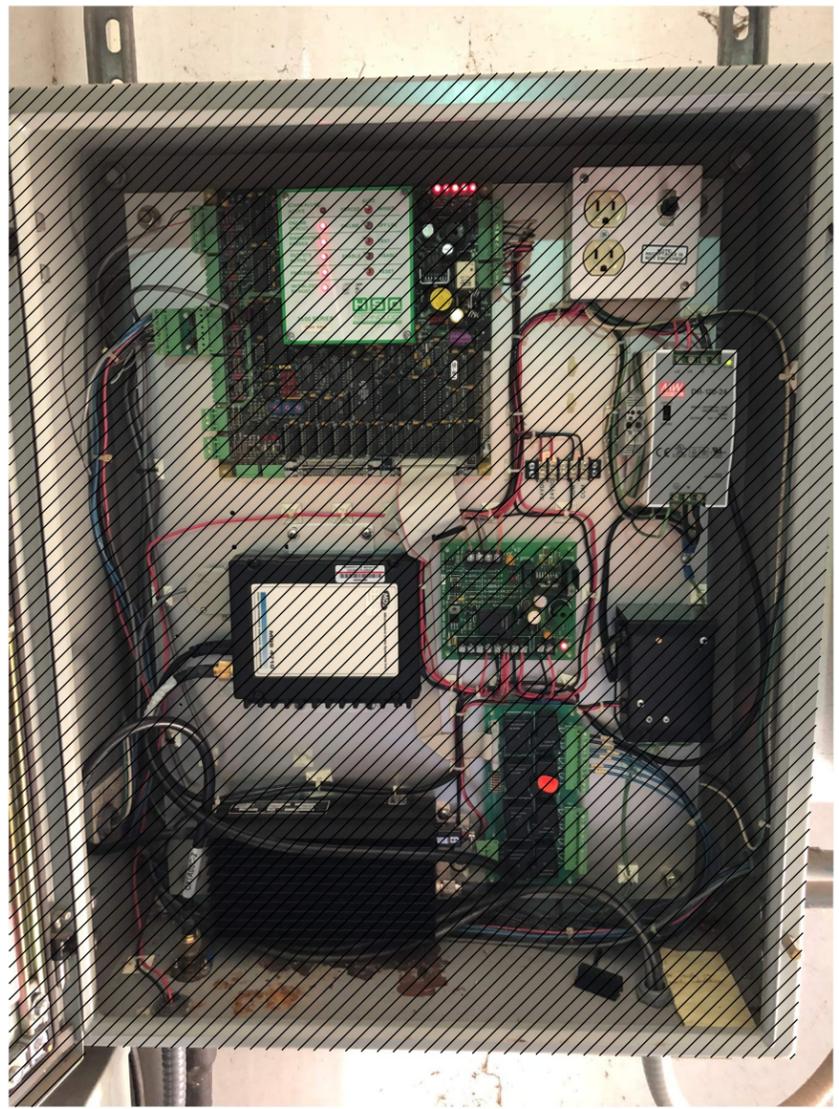
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GENERAL NOTES:

1. ITEMS SHOWN IN HATCHED AREA TO BE REMOVED.
2. FIELD INVESTIGATION OF ALL CONTROL PANELS BY THE CONTRACTOR IS NECESSARY.
3. ALL EXISTING OPERATION CONTROL SIGNALS WILL BE ROUTED TO THE NEW PLC.
4. CONTRACTOR TO DEVELOP A CUT OVER PLAN PRIOR TO EXECUTING THE INSTALLATION OF NEW PLC AND REMOVAL OF EXISTING EQUIPMENT IN RTU.
5. AFTER APPROVAL OF CUT OVER PLAN, TRANSFER ALL I/O WIRING FROM HSQ EQUIPMENT TO NEW ALLEN BRADLEY PLC.
6. DRAWING ILLUSTRATES DESIGN INTENT ONLY. PROVIDE ALL NECESSARY COMPONENTS TO MEET PROJECT REQUIREMENTS.



1 FRONT
FILE: 1071611002DN020A



2 HSQ PANEL
FILE: 1071611002DN020B

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED
AMA
DRAWN
ANW
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NEA
DATE
DECEMBER 2018



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MANATEE COUNTY
LAKE MANATEE WTP SCADA UPGRADE
INSTRUMENTATION
NORTH COUNTY ELEVATED TANK RTU
DEMOLITION

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0 1"
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JOB NO.
107161.10
DRAWING NO.
02DN20
SHEET NO.
53 OF 84

Plot Date: 06-DEC-2018 11:48:17 AM

User: svcPW

Plot Scale: 1:1

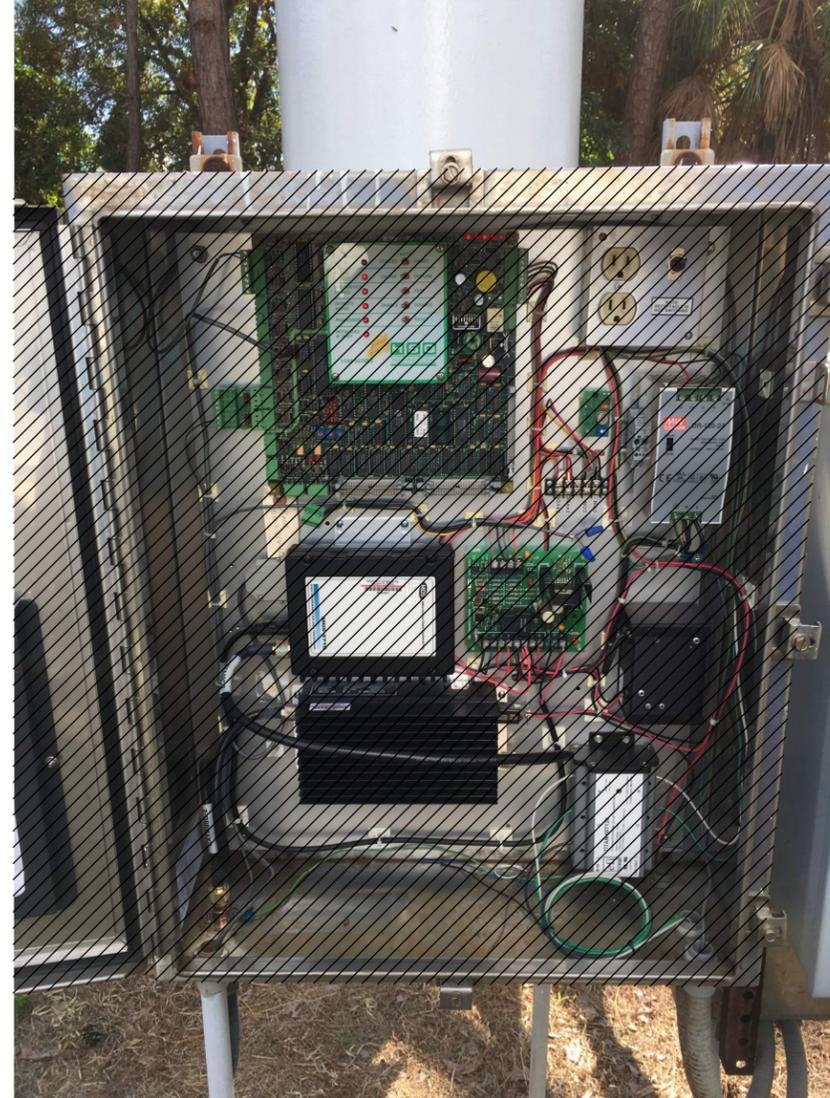
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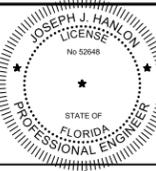


2 HSQ PANEL
FILE: 1071611002DN021B

- GENERAL NOTES:**
1. ITEMS SHOWN IN HATCHED AREA TO BE REMOVED.
 2. FIELD INVESTIGATION OF ALL CONTROL PANELS BY THE CONTRACTOR IS NECESSARY.
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INSTRUMENTATION
59TH STREET ELEVATED TANK RTU
DEMOLITION

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JOB NO.
107161.10
DRAWING NO.
02DN21
SHEET NO.
54 OF 84

Plot Date: 06-DEC-2018 11:50:37 AM

User: svcPW

PlotScale: 1:1

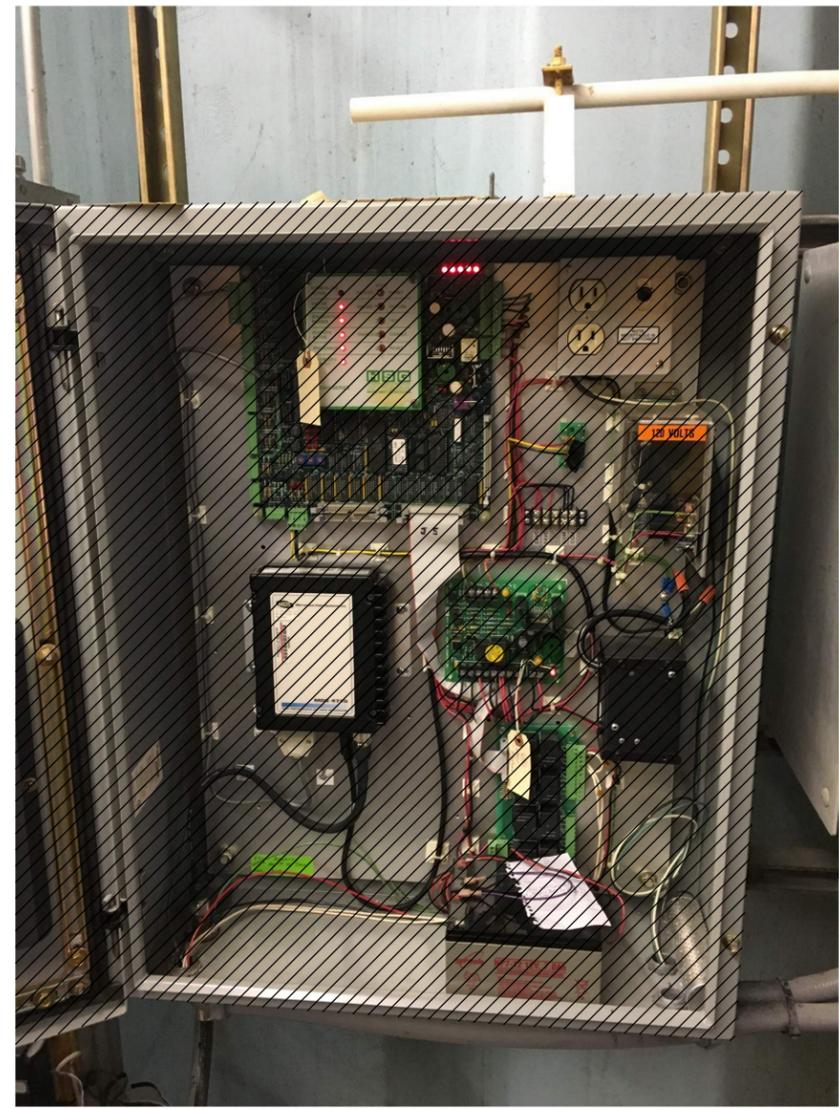
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DesignScript: Carollo_Sld_Pen_v0905.pen



1 FRONT
FILE: 1071611002DN022A



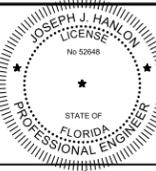
2 HSQL PANEL
FILE: 1071611002DN022B

GENERAL NOTES:

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6. DRAWING ILLUSTRATES DESIGN INTENT ONLY. PROVIDE ALL NECESSARY COMPONENTS TO MEET PROJECT REQUIREMENTS.

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JOB NO.
107161.10
DRAWING NO.
02DN22
SHEET NO.
55 OF 84

Plot Date: 06-DEC-2018 11:46:55 AM

User: svcPW

Plot Scale: 1:1

Model: Layout1

ColorTable: gshade.ctb

DesignScript: Carollo_Sld_Pen_v0905.pen

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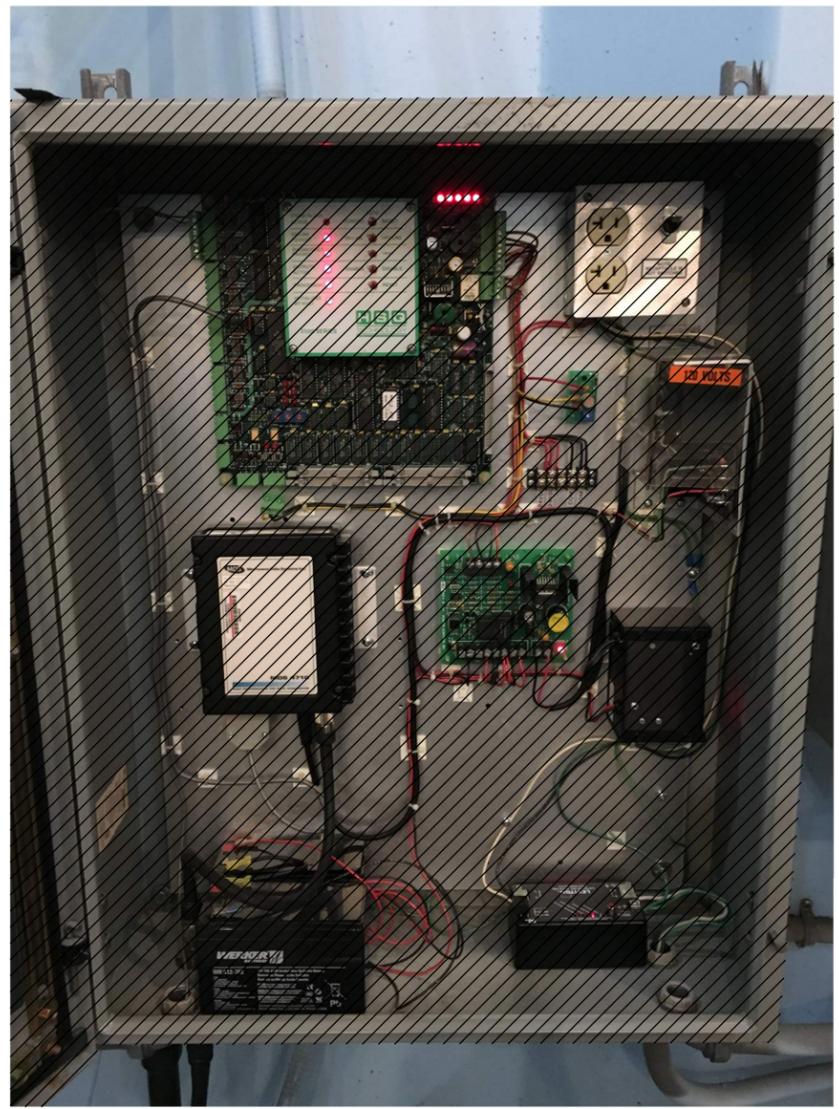
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GENERAL NOTES:

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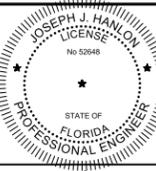
1 FRONT
FILE: 1071611002DN023A



2 HSQ PANEL
FILE: 1071611002DN023B

REV	DATE	BY	DESCRIPTION
1			
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INSTRUMENTATION
PALMETTO ELEVATED TANK RTU DEMOLITION

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JOB NO.
107161.10
DRAWING NO.
02DN23
SHEET NO.
56 OF 84

Plot Date: 06-DEC-2018 11:45:59 AM

User: svcPW

Plot Scale: 1:1

Model: Layout1

ColorTable: gshade.ctb

LAST SAVED BY: AWilford

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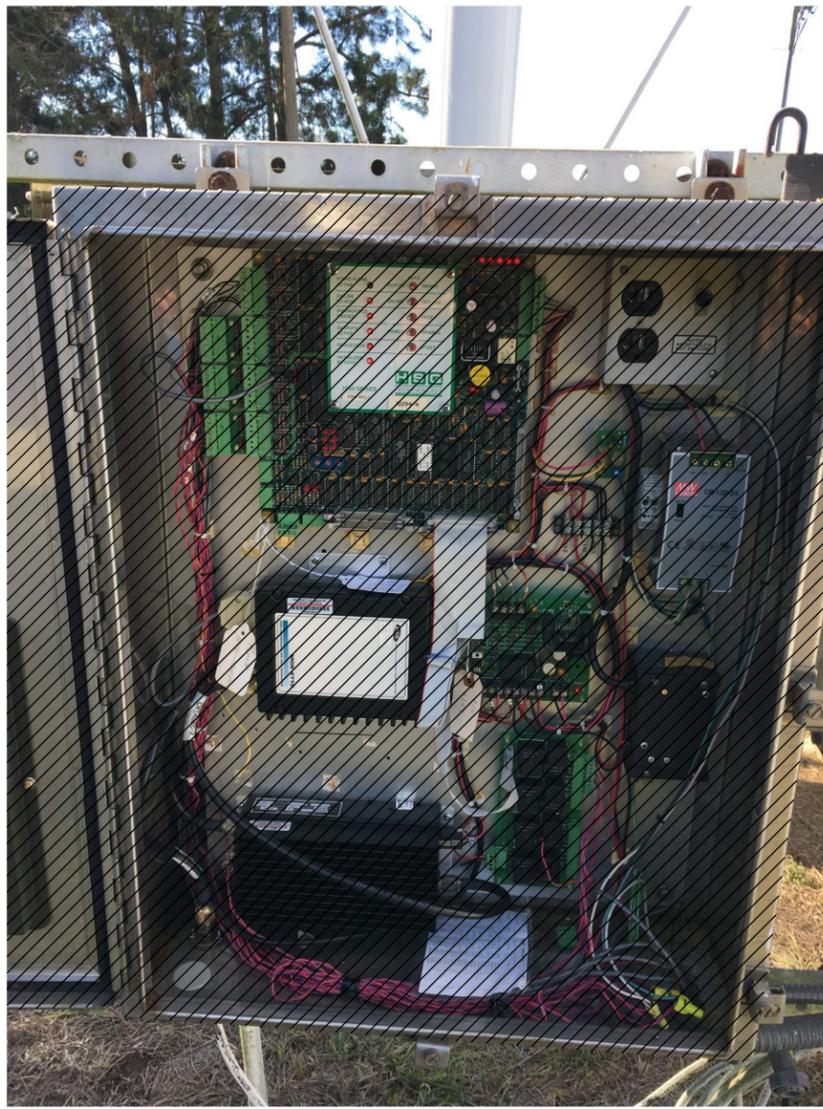
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1 FRONT
FILE: 1071611002DN024A



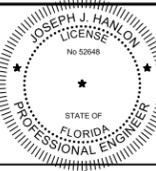
2 HSQ PANEL
FILE: 1071611002DN024B

GENERAL NOTES:

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5. AFTER APPROVAL OF CUT OVER PLAN, TRANSFER ALL I/O WIRING FROM HSQ EQUIPMENT TO NEW ALLEN BRADLEY PLC.
6. DRAWING ILLUSTRATES DESIGN INTENT ONLY. PROVIDE ALL NECESSARY COMPONENTS TO MEET PROJECT REQUIREMENTS.

REV	DATE	BY	DESCRIPTION

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DATE
DECEMBER 2018



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PORT MANATEE ELEVATED TANK RTU
DEMOLITION

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JOB NO.
107161.10
DRAWING NO.
02DN24
SHEET NO.
57 OF 84

Plot Date: 06-DEC-2018 11:50:25 AM

User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sld_Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: AWillard



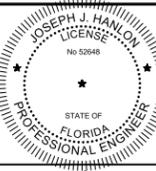
1 FRONT
FILE: 1071611002DN025A

GENERAL NOTES:

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6. DRAWING ILLUSTRATES DESIGN INTENT ONLY. PROVIDE ALL NECESSARY COMPONENTS TO MEET PROJECT REQUIREMENTS.
7. INSTALL NEW ALLEN BRADLEY PLC WHERE EXISTING PLC IS LOCATED.
8. INSTALL NEW STRATIX SWITCH.

REV	DATE	BY	DESCRIPTION
1			

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MANATEE COUNTY
LAKE MANATEE WTP SCADA UPGRADE
INSTRUMENTATION
EQUALIZATION BACKWASH RTU DEMOLITION

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JOB NO.
107161.10
DRAWING NO.
02DN25
SHEET NO.
58 OF 84

Plot Date: 06-DEC-2018 11:50:06 AM
 User: svcPW
 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sig_Pen_v0905.pen PlotScale: 1:1
 LAST SAVED BY: AWillard

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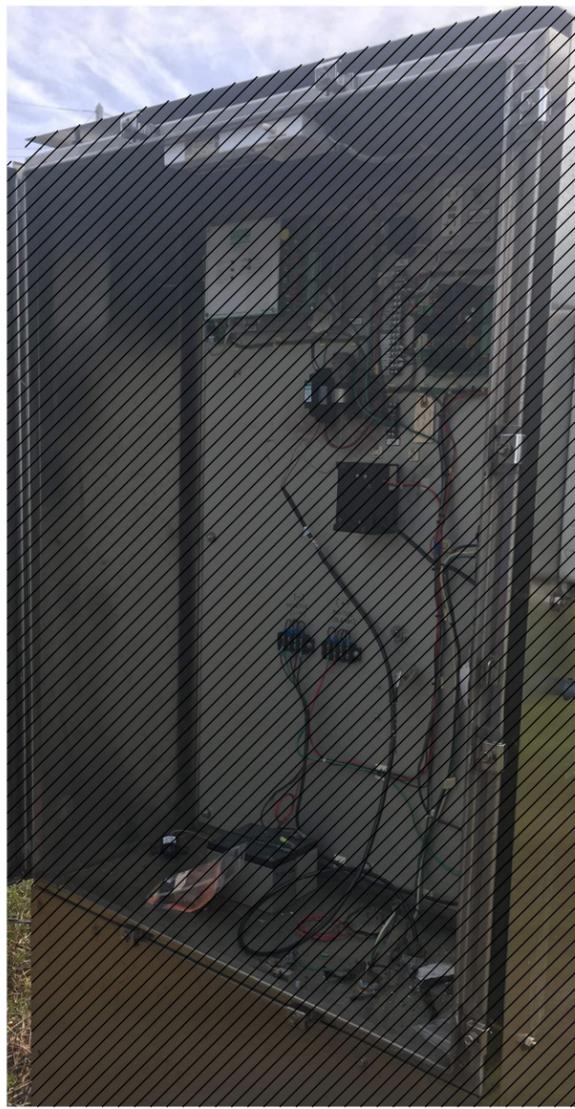
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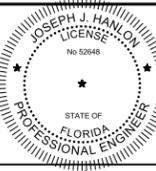
- GENERAL NOTES:**
1. ITEMS SHOWN IN HATCHED AREA TO BE REMOVED.
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1 INTERNAL
 FILE: 1071611002DN012A

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 DRAWN
 ANW
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 DATE
 DECEMBER 2018



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 SR 64 RTU DEMOLITION

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JOB NO.
 107161.10
 DRAWING NO.
02DN26
 SHEET NO.
 59 OF 84