AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE OF PAGES	
J	1	2

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO.(If applicable)
0005	09-Jan-2016		

6. ISSUED BY	CODE N40085	7. ADMINISTERED BY (If other than item 6)	CODE
NAVFAC MID ATLANTIC PWD CRANE FEAD 300 HIGHWAY 361 NSA BLDG 2516 CRANE IN 47522		**See Item 6**	

8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			
		X	9A. AMENDMENT OF SOLICITATION NO. N40085-16-R-2800
		X	9B. DATED (SEE ITEM 11) 20-Nov-2015
			10A. MOD. OF CONTRACT/ORDER NO.
			10B. DATED (SEE ITEM 13)
CODE	FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[X] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer [ ] is extended, [ ] is not extended.

Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

[ ] A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

[ ] B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).

[ ] C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

[ ] D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor [ ] is not, [ ] is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

This amendment is to provide AMI as-built drawing set.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) TEL: EMAIL:	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	16C. DATE SIGNED 09-Jan-2016

REV	DESCRIPTION	BY	DATE	-	----	--	--/--/--	-	----	--	--/--/--
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SCHNEIDER ELECTRIC USA, INC.
NSA CRANE
CRANE, IN
NETWORK DIAGRAM
SCHNEIDER ELECTRIC ORDER NUMBER: 29115563-012

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29115563-012	02	A00	GENERAL NOTES	AS BUILT	29115563-012	27	A00	NSA CRANE MESH 2 HARDWIRE	AS BUILT
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29115563-012	10	A00	NSA CRANE MESH 2 NETWORK DIAGRAM	AS BUILT	29115563-012	35	A00	NSA CRANE MESH 9 HARDWIRE	AS BUILT
29115563-012	11	A00	NSA CRANE MESH 3 NETWORK DIAGRAM	AS BUILT	29115563-012	36	A00	NSA CRANE MESH 10 HARDWIRE	AS BUILT
29115563-012	12	A00	NSA CRANE MESH 4 NETWORK DIAGRAM	AS BUILT	29115563-012	37	A00	NSA CRANE MESH 11 HARDWIRE	AS BUILT
29115563-012	13	A00	NSA CRANE MESH 5 NETWORK DIAGRAM	AS BUILT	29115563-012	38	A00	NSA CRANE MESH 12 HARDWIRE	AS BUILT
29115563-012	14	A00	NSA CRANE MESH 6 NETWORK DIAGRAM	AS BUILT	29115563-012	39	A00	NSA CRANE MESH 13 HARDWIRE	AS BUILT
29115563-012	15	A00	NSA CRANE MESH 7 NETWORK DIAGRAM	AS BUILT	29115563-012	40	A00	NSA CRANE MESH 14 HARDWIRE	AS BUILT
29115563-012	16	A00	NSA CRANE MESH 8 NETWORK DIAGRAM	AS BUILT	29115563-012	41	A00	NSA CRANE MESH 15 HARDWIRE	AS BUILT
29115563-012	17	A00	NSA CRANE MESH 9 NETWORK DIAGRAM	AS BUILT	29115563-012	42	A00	NSA CRANE MESH 16 HARDWIRE	AS BUILT
29115563-012	18	A00	NSA CRANE MESH 10 NETWORK DIAGRAM	AS BUILT	29115563-012	43	A00	NSA CRANE MESH BH HARDWIRE	AS BUILT
29115563-012	19	A00	NSA CRANE MESH 11 NETWORK DIAGRAM	AS BUILT	29115563-012	44	A00	NSA CRANE MESH BH HARDWIRE (CONTINUED)	AS BUILT
29115563-012	20	A00	NSA CRANE MESH 12 NETWORK DIAGRAM	AS BUILT	29115563-012	45	A00	NSA CRANE MESH BH HARDWIRE (CONTINUED)	AS BUILT
29115563-012	21	A00	NSA CRANE MESH 13 NETWORK DIAGRAM	AS BUILT	29115563-012	46	A00	NSA CRANE MESH BH HARDWIRE (CONTINUED)	AS BUILT
29115563-012	22	A00	NSA CRANE MESH 14 NETWORK DIAGRAM	AS BUILT	29115563-012	47	A00	NSA CRANE MESH BH HARDWIRE (CONTINUED)	AS BUILT
29115563-012	23	A00	NSA CRANE MESH 15 NETWORK DIAGRAM	AS BUILT	29115563-012	48	A00	NSA CRANE POP ROUTER DIAGRAM 1	AS BUILT
29115563-012	24	A00	NSA CRANE MESH 16 NETWORK DIAGRAM	AS BUILT	29115563-012	49	A00	NSA CRANE POP ROUTER DIAGRAM 2	AS BUILT
29115563-012	25	A00	NSA CRANE BACKHAUL METERING NETWORK DIAGRAM	AS BUILT					

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	-
PLANT LOCATION:	P48 (ENG SVCS - PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	TITLE SHEET & TABLE OF CONTENTS
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563-012	PG 01 OF 49 REV A00

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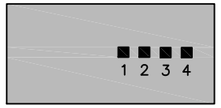
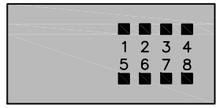
PURPOSE:
THIS DRAWING PACKAGE PROVIDES AN OVERVIEW OF THE NETWORK DESIGN AT NSA CRANE. THIS DRAWING PACKAGE SHOWS THE NETWORK CONNECTIVITY THROUGHOUT THE SITES AS WELL AS IP ADDRESS INFORMATION.

GENERAL NOTES:
1. CAT6 CABLE RUN CANNOT EXCEED 330'.

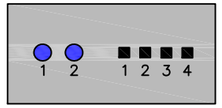
TYPICAL
SWITCH W/4 PORT
DESIGNATIONS



TYPICAL
SWITCH W/8 PORT
DESIGNATIONS



TYPICAL
FIBER SWITCH PORT
DESIGNATIONS



- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	GENERAL NOTES
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 02 OF 49 REV A00

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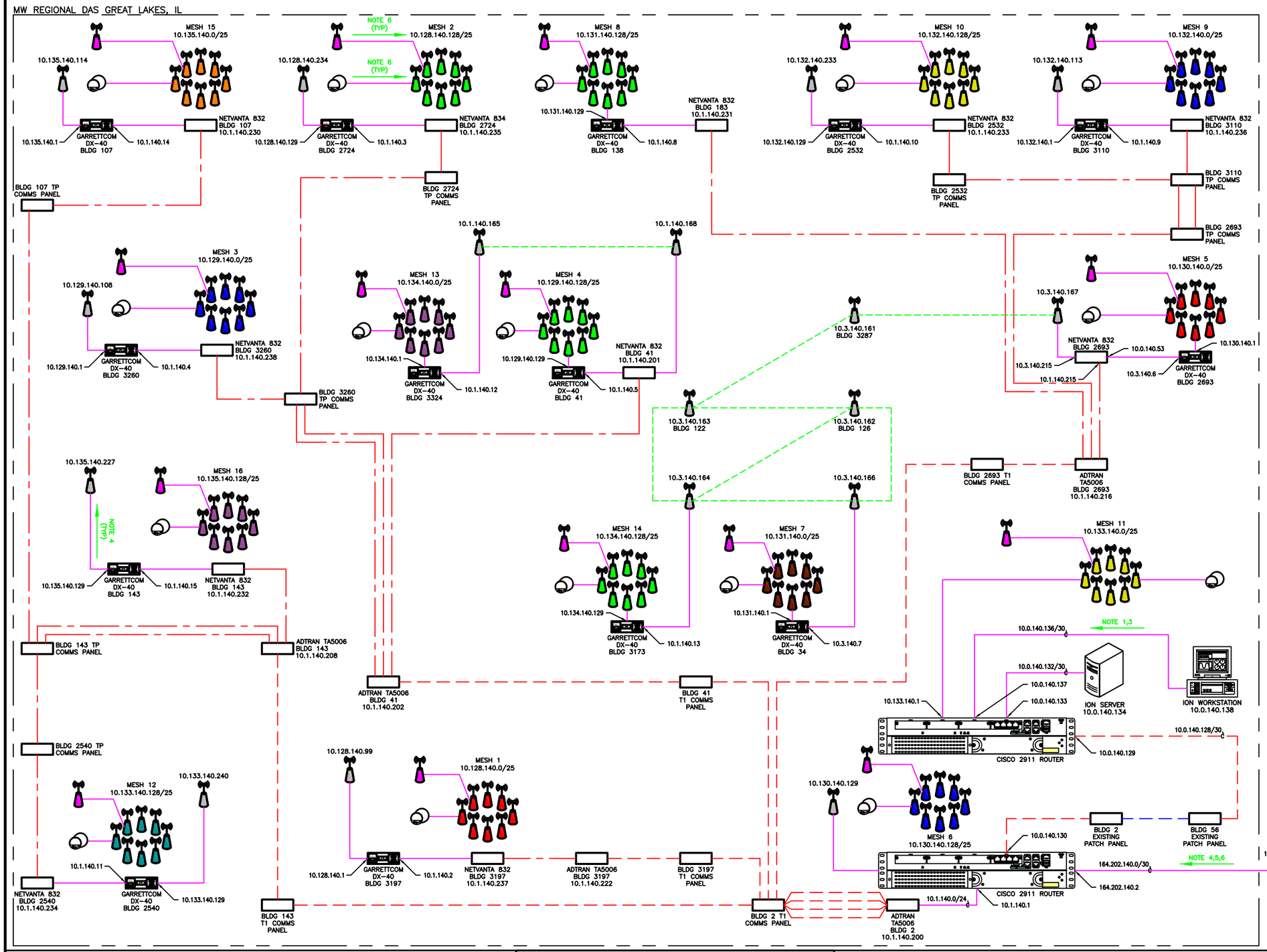

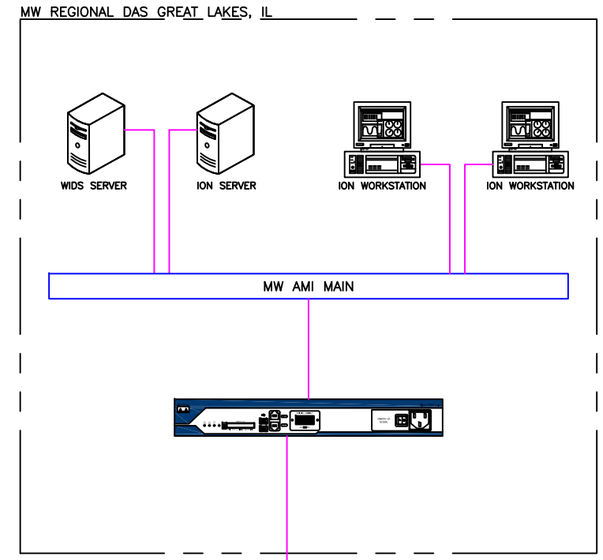

PSNET BOUNDARY

NOTES (PORT, PROTOCOL):

1. 25, SMTP
   80, HTTP
   139, FILE SHARE
   161, SNMP
   443, HTTPS
   502, MODBUS-TCP
   1433–1434, SQL
   7700–7703, ION
   7800, 7803, ETHERGATE
   13666, ION SERVICES
   13670, ION DESIGNER
   57777, REAL TIME DATA
2. 80, HTTP
   139, FILE SHARE
   161, SNMP
   443, HTTPS
   1433–1434, SQL
   7700, ION
   13670, ION DESIGNER
   57777, REAL TIME DATA
3. 161, SNMP
   23, TELNET
4. 80, HTTP
   161, SNMP
   443, HTTPS
5. 7700–7703, ION
6. 443, HTTPS

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE LOGICAL DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 03 OF 49 REV A00

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REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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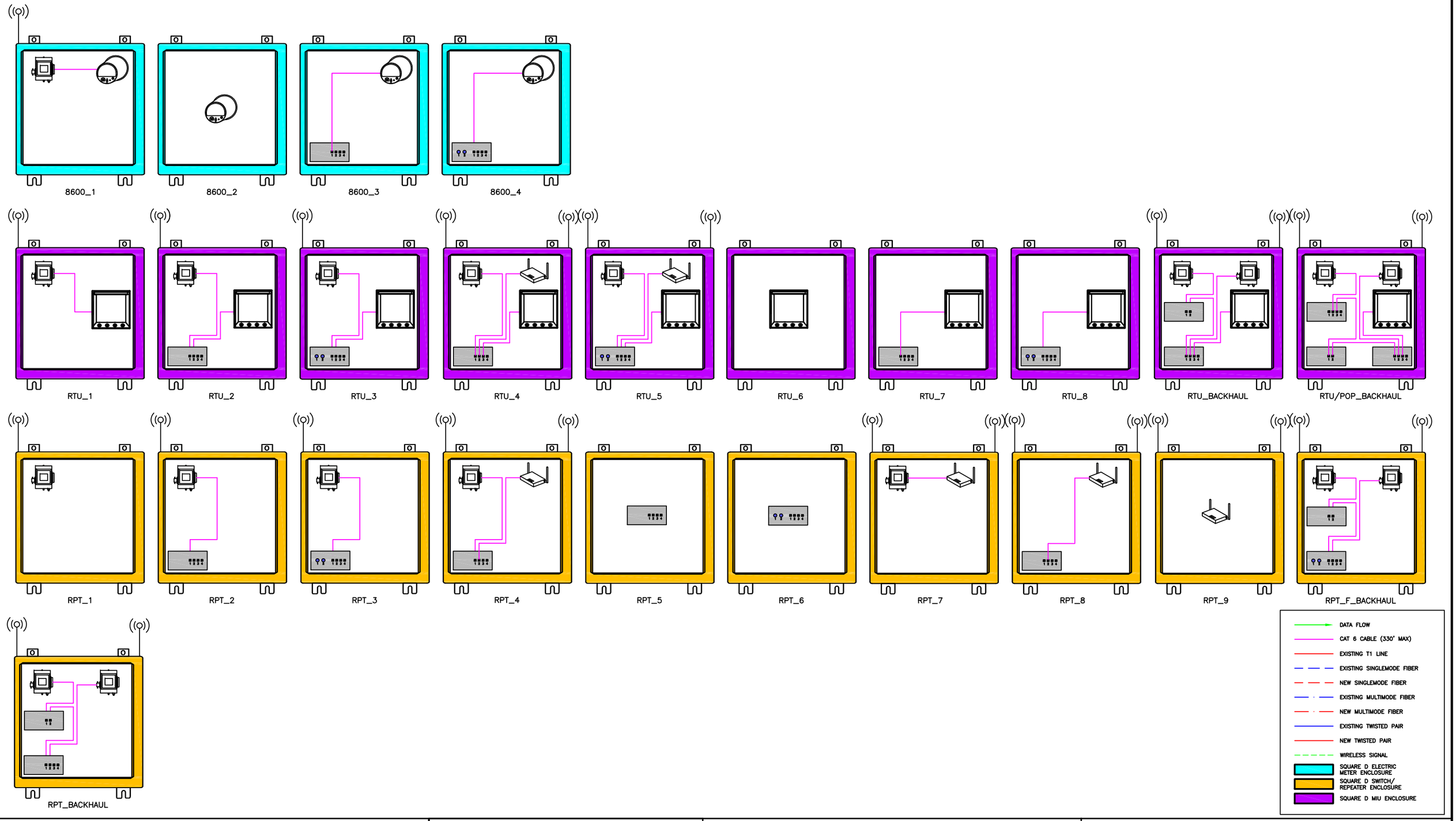

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	**NETWORK DIAGRAM**
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	TYPICAL ENCLOSURE NETWORK DESIGNS
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# **29115563–012**	PG **04** OF **49** REV A00

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REV	DESCRIPTION	BY	DATE
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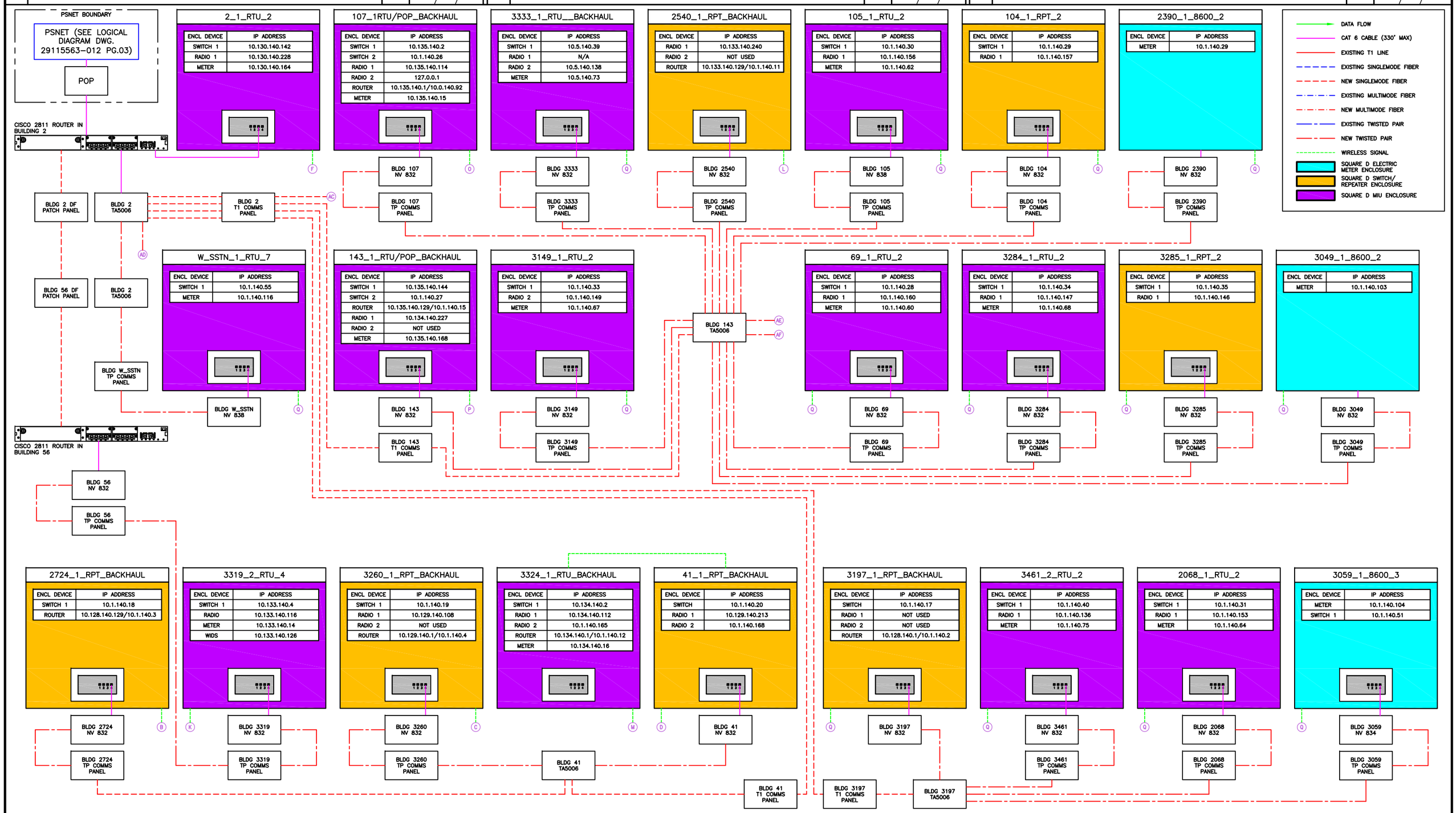

NOTE:
ENCLOSURES SHOWN ON THIS DIAGRAM WITH NO WIRELESS CONNECTION TO A MESH ARE ISOLATED METERING LOCATIONS WITH BACKHAUL IP ADDRESSES. SOME OF THESE MAY HAVE A LIMITED NUMBER OF WIRELESS CONNECTIONS TO OTHER POINTS IN THEIR VICINITY. SEE PAGE 24 OF 47 FOR THESE ADDITIONAL BACKHAUL IP METERING LOCATIONS.

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE POP NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563-012	PG 05 OF 49 REV A00

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REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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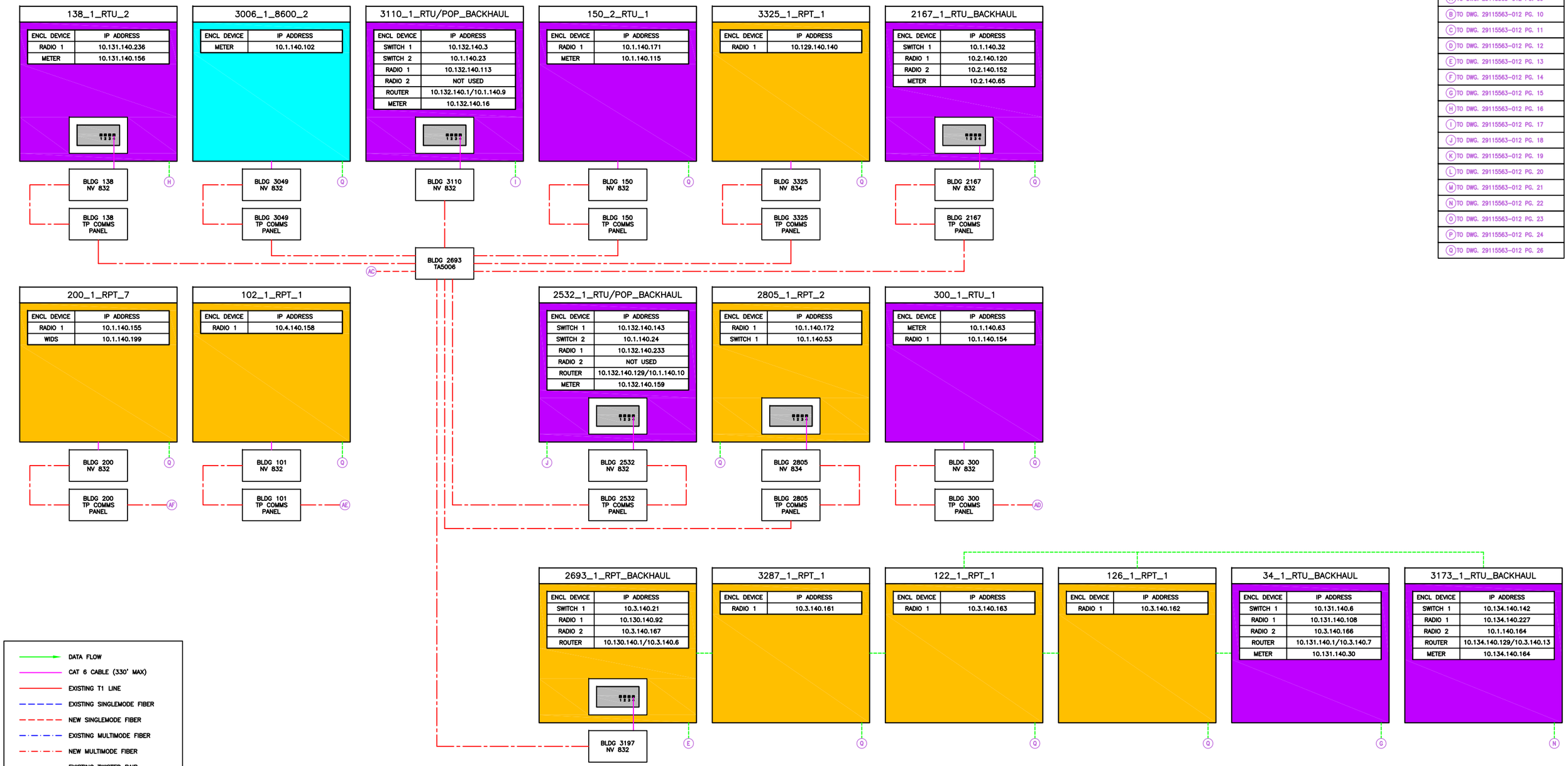

NOTE:
ENCLOSURES SHOWN ON THIS DIAGRAM WITH NO WIRELESS CONNECTION TO A MESH ARE ISOLATED METERING LOCATIONS WITH BACKHAUL IP ADDRESSES. SOME OF THESE MAY HAVE A LIMITED NUMBER OF WIRELESS CONNECTIONS TO OTHER POINTS IN THEIR VICINITY. SEE PAGE 24 OF 47 FOR THESE ADDITIONAL BACKHAUL IP METERING LOCATIONS.

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	**NETWORK DIAGRAM**
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE POP NETWORK DIAGRAM 2
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# **29115563-012**	PG **06** OF **49** REV A00

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REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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143_1_RTU/POP_BACKHAUL SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
143_RTU_BACKHAUL SW CU PORT 1	FACTORY WIRED
143_RTU_BACKHAUL SW CU PORT 2	FACTORY WIRED
143_RTU_BACKHAUL SW CU PORT 3	FACTORY WIRED
143_RTU_BACKHAUL SW CU PORT 4	143_Netvanta 832T_Port 1

69_1_RTU_2 SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
69_RTU_2 SW CU PORT 1	FACTORY WIRED
69_RTU_2 SW CU PORT 2	FACTORY WIRED
69_RTU_2 SW CU PORT 3	N/A
69_RTU _2SW CU PORT 4	69_Netvanta 832T_port 1

W_SSTN_1_RTU_7 SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
W_SSTN_RTU_7 SW CU PORT 1	FACTORY WIRED
W_SSTN_RTU_7 SW CU PORT 2	N/A
W_SSTN_RTU _7SW CU PORT 3	N/A
W_SSTN_RTU _7SW CU PORT 4	W_SSTN_Netvanta 832T_Port 1

3260_1_RPT_BACKHAUL SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
3260_RPT_BACKHAUL SW CU PORT 1	FACTORY WIRED
3260_RPT_BACKHAUL SW CU PORT 2	FACTORY WIRED
3260_RPT_BACKHAUL SW CU PORT 3	N/A
3260_RPT_BACKHAUL SW CU PORT 4	3260_Netvanta 832T_Port 1

3319_2_RTU_4 SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
3319_RTU_ 4SW CU PORT 1	FACTORY WIRED
3319_RTU_ 4SW CU PORT 2	FACTORY WIRED
3319_RTU_4 SW CU PORT 3	FACTORY WIRED
3319_RTU_ 4SW CU PORT 4	3319_Netvanta 832T_Port 1

3197_1_RPT_BACKHAUL SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
3197_RPT_BACKHAUL SW CU PORT 1	FACTORY WIRED
3197_RPT_BACKHAUL SW CU PORT 2	FACTORY WIRED
3197_RPT_BACKHAUL SW CU PORT 3	N/A
3197_RPT_BACKHAUL SW CU PORT 4	3197_Netvanta 832T_Port 1

3285_1_RPT_2 SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
3285_RPT_2SW CU PORT 1	FACTORY WIRED
3285_RPT _2SW CU PORT 2	N/A
3285_RPT_2 SW CU PORT 3	N/A
3285_RPT _2SW CU PORT 4	3285_Netvanta 832T_Port 1

2724_1_RPT_BACKHAUL SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
2724_RPT_BACKHAUL SW CU PORT 1	FACTORY WIRED
2724_RPT_BACKHAUL SW CU PORT 2	FACTORY WIRED
2724_RPT_BACKHAUL SW CU PORT 3	N/A
2724_RPT_BACKHAUL SW CU PORT 4	2724_Netvanta 832T_Port 1

107_1_RTU/POPBACKHAUL SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
107_RTU_BACKHAUL SW CU PORT 1	FACTORY WIRED
107_RTU_BACKHAUL SW CU PORT 2	FACTORY WIRED
107_RTU_BACKHAUL SW CU PORT 3	FACTORY WIRED
107_RTU_BACKHAUL SW CU PORT 4	107_Netvanta 832T_Port 1

3333_1_RTU_BACKHAUL SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
3333_RTU_2 SW CU PORT 1	FACTORY WIRED
3333_RTU _2SW CU PORT 2	FACTORY WIRED
3333_RTU _2SW CU PORT 3	FACTORY WIRED
3333_RTU _2SW CU PORT 4	3333_Netvanta 832T_Port 1

138_1_RTU_2_SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
2805_RPT_2 SW CU PORT 1	FACTORY WIRED
2805_RPT_2 SW CU PORT 2	FACTORY WIRED
2805_RPT_2 SW CU PORT 3	N/A
2805_RPT_2 SW CU PORT 4	138_Netvanta832T_Port 1

2167_1_RTU_BACKHAUL_SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
2167_RTU_4 SW CU PORT 1	FACTORY WIRED
2167_RTU_4 SW CU PORT 2	FACTORY WIRED
2167_RTU_4 SW CU PORT 3	FACTORY WIRED
2167_RTU_4 SW CU PORT 4	2167_Netvanta832T_Port 1

3461_2_RTU_2_SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
3461_RTU _2SW CU PORT 1	FACTORY WIRED
3461_RTU _2SW CU PORT 2	FACTORY WIRED
3461_RTU _2SW CU PORT 3	N/A
3461_RTU _2SW CU PORT 4	3461_Netvanta 832T_Port 1

3284_1_RTU_2_SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
3284_RTU _2SW CU PORT 1	FACTORY WIRED
3284_RTU_2 SW CU PORT 2	FACTORY WIRED
3284_RTU_2 SW CU PORT 3	N/A
3284_RTU_2 SW CU PORT 4	3284_Netvanta 832T_Port 1

2068_1_RTU_2_SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
2068_RTU_ 2SW CU PORT 1	FACTORY WIRED
2068_RTU_2 SW CU PORT 2	FACTORY WIRED
2068_RTU_ 2SW CU PORT 3	N/A
2068_RTU_2SW CU PORT 4	2068_Netvanta 832T_Port 1

41_1_RPT_BACKHAUL_SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
41_RPT_BACKHAUL SW CU PORT 1	FACTORY WIRED
41_RPT_BACKHAUL SW CU PORT 2	FACTORY WIRED
41_RPT_BACKHAUL SW CU PORT 3	N/A
41_RPT_BACKHAUL SW CU PORT 4	41_Netvanta 832T_Port 1

3149_1_RTU_2_SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
3149_RTU_ 2SW CU PORT 1	FACTORY WIRED
3149_RTU_2SW CU PORT 2	FACTORY WIRED
3149_RTU_2SW CU PORT 3	N/A
3149_RTU_ 2SW CU PORT 4	3149_Netvanta 832T_Port 1

2532_1_RTU/POP_BACKHAUL_SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
2532_RTU_BACKHAUL SW CU PORT 1	FACTORY WIRED
2532_RTU_BACKHAUL SW CU PORT 2	FACTORY WIRED
2532_RTU_BACKHAUL SW CU PORT 3	FACTORY WIRED
2532_RTU_BACKHAUL SW CU PORT 4	2532_Netvanta832T_Port 1

105_1_RTU_2_SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
105_RTU_2SW CU PORT 1	FACTORY WIRED
105_RTU_2SW CU PORT 2	FACTORY WIRED
105_RTU_2SW CU PORT 3	N/A
105_RTU_2SW CU PORT 4	105_Netvanta 832T_Port 1

3059_1_8600_3_SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
3059_8600_3 SW CU PORT 1	FACTORY WIRED
3059_8600_3 SW CU PORT 2	N/A
3059_8600_3 SW CU PORT 3	N/A
3059_8600_3 SW CU PORT 4	3059_Netvanta 832T_Port 1

3110_1_RTU/POP_BACKHAUL_ SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
3110_RTU _BACKHAUL SW CU PORT 1	FACTORY WIRED
3110_RTU_BACKHAUL SW CU PORT 2	FACTORY WIRED
3110_RTU _BACKHAULSW CU PORT 3	FACTORY WIRED
3110_RTU_BACKHAUL SW CU PORT 4	3110_Netvanta832T_Port 1

2805_1_RPT_2_SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
2805_RPT_2 SW CU PORT 1	FACTORY WIRED
2805_RPT_2 SW CU PORT 2	N/A
2805_RPT_2 SW CU PORT 3	N/A
2805_RPT_2 SW CU PORT 4	2805_Netvanta832T_Port 1

2693_1_RPT_BACKHAUL_SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
2693_RPT_SW CU PORT 1	FACTORY WIRED
2693_RPT_SW CU PORT 2	FACTORY WIRED
2693_RPT_SW CU PORT 3	N/A
2693_RPT_SW CU PORT 4	2693_Netvanta832T_Port 1

104_1_RPT_2_SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
104_RPT_2 SW CU PORT 1	FACTORY WIRED
104_RPT_ 2SW CU PORT 2	N/A
104_RPT_2SW CU PORT 3	N/A
104_RPT_2 SW CU PORT 4	104_Netvanta 832T_Port 1

2_1_RTU_2_ SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
2_1_RTU_2 SW CU PORT 1	FACTORY WIRED
2_1_RTU_2 SW CU PORT 2	N/A
2_1_RTU_2 SW CU PORT 3	CISCO 2811 ROUTER
2_1_RTU_2 SW CU PORT 4	N/A

2540_1_RPT_BACKHAUL_SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
2540_1_RPT_BACKHAUL SW CU PORT 1	FACTORY WIRED
2540_1_RPT_BACKHAUL SW CU PORT 2	N/A
2540_1_RPT_BACKHAUL SW CU PORT 3	N/A
2540_1_RPT_BACKHAUL SW CU PORT 4	2540_Netvanta832T_Port 1

3324_1_RTU_BACKHAUL_SWITCH 1	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
3324_1_RTU_BACKHAUL SW CU PORT 1	FACTORY WIRED
3324_1_RTU_BACKHAUL SW CU PORT 2	N/A
3324_1_RTU_BACKHAUL SW CU PORT 3	N/A
3324_1_RTU_BACKHAUL SW CU PORT 4	N/A

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER
		ENGR:	SHENOUDA SHEHATA
		DATE:	MARCH 21, 2013
		DRAWING STATUS:	AS BUILT

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EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
EQUIPMENT TYPE:	–
DRAWING TYPE:	NSA CRANE POP SWITCH TABLES

Schneider Electric

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REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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Bulding Number	Building Name	Room Number/Name	Device	IP ADDRESS	SUBNET	GATEWAY	Cable Type	Connect To
2	Admin Support BLDG	Mechanical Room	Adtran TA5006	10.1.140.200	255.255.255.0	10.1.140.1	None	CRANE FIBER MUX–ALL OTHER TA5006
41 (Mesh 4)	Elect Eng & General Warehouse	Main Hallway	Netvanta 832	10.1.140.201	255.255.255.0	10.1.140.1	CAT 6	41_RPT Ethernet Switch (BH SIDE)
41	Elect Eng & General Warehouse	Mechanical Room	Adtran TA5006	10.1.140.202	255.255.255.0	10.1.140.1	None	CRANE FIBER MUX TO TA5006 BLDG 2
56	NAVFAC	South Side of Bldg	Netvanta 832	10.1.140.203	255.255.255.0	10.1.140.1	CAT 6	Building 56 CISCO 2811 Router
69	Transfer Facility	West Office East Wall	Netvanta 832	10.1.140.204	255.255.255.0	10.1.140.1	CAT 6	69_RTU Ethernet Switch
104	Ammunition Loading Plant	West Office	Netvanta 832	10.1.140.205	255.255.255.0	10.1.140.1	CAT 6	104_RPT Ethernet Switch
105	Washout Facility (DEMIL)	TRANSFORMER FENCE–OUTSIDE	Netvanta 832	10.1.140.206	255.255.255.0	10.1.140.1	CAT 6	105_RTU Ethernet Switch
143	Ordnance Testing Facility	Mechanical Room	Adtran TA5006	10.1.140.208	255.255.255.0	10.1.140.1	None	CRANE FIBER MUX TO TA5006 BLDG 2
150	Boiler House	Mechanical Room	Netvanta 832	10.1.140.209	255.255.255.0	10.1.140.1	CAT 6	150_2_RTU (Radio and Meter– 2 cables)
200	Ammunition Loading Plant	Outside (North Side)	Netvanta 832	10.1.140.210	255.255.255.0	10.1.140.1	CAT 6	200_RPT (Radio and WIDS– 2 cables)
300	Communications Center	Air Handler Room	Netvanta 832	10.1.140.211	255.255.255.0	10.1.140.1	CAT 6	300_RTU (Radio and Meter – 2 cables)
2068	Electronics Eng	Mechanical Room	Netvanta 832	10.1.140.212	255.255.255.0	10.1.140.1	CAT 6	2068_RTU Ethernet Switch
2167	Flare Test Facility	Office wall	Netvanta 832	10.1.140.213	255.255.255.0	10.1.140.1	CAT 6	2167_RTU Ethernet Switch
2390	RDT&E Shipping & Receiving	Wall North of Office	Netvanta 832	10.1.140.214	255.255.255.0	10.1.140.1	CAT 6	2390_8600 (Meter – 1 cable)
2693 (mesh 5)	Telecom	Boiler Room Equipment (Mech Room)	Netvanta 832	10.1.140.215	255.255.255.0	10.1.140.1	CAT 6	2693_RPT Ethernet Switch (BH SIDE)
2693	Telecom	Mechanical Room	Adtran TA5006	10.1.140.216	255.255.255.0	10.1.140.1	None	CRANE FIBER MUX TO TA5006 BLDG 2
2805	Test Building	Closet across from Office	Netvanta 834	10.1.140.217	255.255.255.0	10.1.140.1	CAT 6	2805_RPT Ethernet Switch
3006	Microwave Test Range	Building North Entrance	Netvanta 832	10.1.140.218	255.255.255.0	10.1.140.1	CAT 6	3006_8600 (Meter– 1 cable)
3049	Filter & Control	Second Floor Break Room	Netvanta 832	10.1.140.219	255.255.255.0	10.1.140.1	CAT 6	3049_8600 (Meter– 1 cable)
3059	Linear Accelerator	West side near stairs	Netvanta 834	10.1.140.220	255.255.255.0	10.1.140.1	CAT 6	3059_8600 Ethernet Switch
3149	Surveillance	Central Office area	Netvanta 832	10.1.140.221	255.255.255.0	10.1.140.1	CAT 6	3149_RTU Ethernet Switch
3197	3197	Mechanical Room	Adtran TA5006	10.1.140.222	255.255.255.0	10.1.140.1	None	CRANE FIBER MUX TO TA5006 BLDG 2
3284	Ordnance Eng & Ops	Main Hallway	Netvanta 832	10.1.140.223	255.255.255.0	10.1.140.1	CAT 6	3284_RTU Ethernet Switch
3285	Ordnance Enviro Test Facility	Air Handler Room	Netvanta 832	10.1.140.224	255.255.255.0	10.1.140.1	CAT 6	3285_RPT Ethernet Switch
3319	BEQ	Upper floor West Side	Netvanta 832	10.1.140.225	255.255.255.0	10.1.140.1	CAT 6	3319_2_RTU Ethernet Switch
3325	Ammo Containerization	Mechanical Room	Netvanta 834	10.1.140.226	255.255.255.0	10.1.140.1	CAT 6	3325_RPT (Radio – 1 cable)
3333	Ammo Containerization	Wall Adjacent to Dock	Netvanta 832	10.1.140.227	255.255.255.0	10.1.140.1	CAT 6	3333_RTU Ethernet Switch
3461	3461	North of Stairs lower level	Netvanta 832	10.1.140.228	255.255.255.0	10.1.140.1	CAT 6	3461_2_RTU Ethernet Switch
101/102	Med Caliber Projectile Loading	In Bldg 102, West Side comms closet	Netvanta 832	10.1.140.229	255.255.255.0	10.1.140.1	CAT 6	102_RPT (Radio – 1 Cable)
107 (Mesh 15)	107	Inside South Side	Netvanta 832	10.1.140.230	255.255.255.0	10.1.140.1	CAT 6	107_RTU Ethernet Switch (BH SIDE)
138 (Mesh 8)	Explosive Pellet Facility	Central building area	Netvanta 832	10.1.140.231	255.255.255.0	10.1.140.1	CAT 6	138_RTU Ethernet Switch (BH SIDE)
143 (Mesh 16)	Ordnance Testing Facility	Mechanical Room	Netvanta 832	10.1.140.232	255.255.255.0	10.1.140.1	CAT 6	143_RTU Ethernet Switch (BH SIDE)
2532 (Mesh 10)	2532	Office South side closet	Netvanta 832	10.1.140.233	255.255.255.0	10.1.140.1	CAT 6	2532_RTU Ethernet Switch (BH Side)
2540 (Mesh 12)	Ordnance Operations Lunch & Locker	Main Hallway	Netvanta 832	10.1.140.234	255.255.255.0	10.1.140.1	CAT 6	2540_RPT Ethernet Switch (BH Side)
2724 (Mesh 2)	2724	Outlet Box	Netvanta 834	10.1.140.235	255.255.255.0	10.1.140.1	CAT 6	2724_RPT Ethernet Switch (BH SIDE)
3110 (Mesh 9)	3110	Outside South Side	Netvanta 832	10.1.140.236	255.255.255.0	10.1.140.1	CAT 6	3110_RTU Ethernet Switch (BH Side)
3197 (Mesh 1)	3197	Outside East comms closet	Netvanta 832	10.1.140.237	255.255.255.0	10.1.140.1	CAT 6	3197_RPT Ethernet Switch (BH SIDE)
3260 (Mesh 3)	Environmental Protection	Outside Comm Room (West Side)	Netvanta 832	10.1.140.238	255.255.255.0	10.1.140.1	CAT 6	3260_RPT Ethernet Switch (BH Side)
W_SSTN	Hoosier Energy	Pole	Netvanta 832	10.1.140.239	255.255.255.0	10.1.140.1	CAT 6	W_SSTN_RTU Ethernet Switch

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE ADTRAN EQUIPMENT
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 08 OF 49 REV A00

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REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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Q

WIRELESS MESH 1 NETWORK DEVICES

METER DEVICES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Meter IP
CRANE	2521_1	SMALL ARMS FACILITY	8600	1	10.128.140.10
CRANE	2522_1	WAREHOUSE	8600	1	10.128.140.11
CRANE	2522_2	WAREHOUSE	8600	1	10.128.140.12
CRANE	2523_1	WAREHOUSE	8600	1	10.128.140.14
CRANE	2523_2	WAREHOUSE	8600	1	10.128.140.13
CRANE	2523_3	WAREHOUSE	8600	1	10.128.140.15
CRANE	2524_1	WAREHOUSE	8600	1	10.128.140.16
CRANE	2524_2	WAREHOUSE	8600	1	10.128.140.17
CRANE	3422_1	SPECIAL WEAPONS ENGINEERING	8600	1	10.128.140.18
CRANE	3461_1	3461	8600	1	10.1.140.240
CRANE	2521_1	SMALL ARMS FACILITY	RTU	1	10.128.140.19
CRANE	2522_1	WAREHOUSE	RTU	1	10.128.140.20
CRANE	2524_1	WAREHOUSE	RTU	1	10.128.140.21
CRANE	3422_1	SPECIAL WEAPONS ENGINEERING	RTU	1	10.128.140.22

RADIO DEVICES

Site_Name	Bldg_Num	Bldg_Name	Netwk_Conn	Mesh	Radio 1 IP	Radio 2 IP
CRANE	2521_1	SMALL ARMS FACILITY	RADIO	1	10.128.140.119	N/A
CRANE	2522_1	WAREHOUSE	RADIO	1	10.128.140.118	N/A
CRANE	2522_2	WAREHOUSE	RADIO	1	10.128.140.117	N/A
CRANE	2523_1	WAREHOUSE	RADIO	1	10.128.140.115	N/A
CRANE	2523_2	WAREHOUSE	RADIO	1	10.128.140.116	N/A
CRANE	2523_3	WAREHOUSE	RADIO	1	10.128.140.114	N/A
CRANE	2524_1	WAREHOUSE	RADIO	1	10.128.140.113	N/A
CRANE	2524_2	WAREHOUSE	RADIO	1	10.128.140.112	N/A
CRANE	3422_1	SPECIAL WEAPONS ENGINEERING	RADIO	1	10.128.140.111	N/A
CRANE	3461_1	3461	RADIO	1	10.1.140.191	N/A
CRANE	2521_1	SMALL ARMS FACILITY	RADIO	1	10.128.140.106	N/A
CRANE	2521_1	SMALL ARMS FACILITY	RADIO	1	10.128.140.110	N/A
CRANE	2522_1	WAREHOUSE	RADIO	1	10.128.140.109	N/A
CRANE	2523_1	WAREHOUSE	RADIO	1	10.128.140.105	N/A
CRANE	2524_1	WAREHOUSE	RADIO	1	10.128.140.108	N/A
CRANE	3422_1	SPECIAL WEAPONS ENGINEERING	RADIO	1	10.128.140.107	N/A

SWITCHES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Switch IP
CRANE	2524_1	WAREHOUSE	RPT	1	10.128.140.2

WIRELESS INTRUSION DETECTION SENSORS

Site_Name	Bldg_Num	Bldg_Name	Mesh	WIDS	WIDS IP
CRANE	2521_1	SMALL ARMS FACILITY	1	WIDS	10.128.140.126
CRANE	2523_1	WAREHOUSE	1	WIDS	10.128.140.125
CRANE	2524_1	WAREHOUSE	1	WIDS	10.128.140.124

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 1 NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 09 OF 49 REV A00

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REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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WIRELESS MESH 2 NETWORK DEVICES

METER DEVICES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Meter IP
CRANE	2737_1	BOILER HOUSE	8600	2	10.128.140.150
CRANE	2724_1	2724	RTU	2	10.128.140.151
CRANE	2728_1	2728	RTU	2	10.128.140.152
CRANE	2731_1	2731	RTU	2	10.128.140.153
CRANE	2735_1	2735	RTU	2	10.128.140.154
CRANE	2737_1	BOILER HOUSE	RTU	2	10.128.140.155

RADIO DEVICES

Site_Name	Bldg_Num	Bldg_Name	Netwk_Conn	Mesh	Radio 1 IP	Radio 2 IP
CRANE	2737_1	BOILER HOUSE	RADIO	2	10.128.140.240	N/A
CRANE	2724_1	2724	RADIO	2	10.128.140.239	N/A
CRANE	2728_1	2728	RADIO	2	10.128.140.238	N/A
CRANE	2731_1	2731	RADIO	2	10.128.140.237	N/A
CRANE	2735_1	2735	RADIO	2	10.128.140.236	N/A
CRANE	2737_1	BOILER HOUSE	RADIO	2	10.128.140.235	N/A

SWITCHES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Switch IP
CRANE	2724_1	2724	RPT	2	10.1.140.18
CRANE	2724_2	2724	RPT	2	10.128.140.142
CRANE	2728_1	2728	RTU	2	10.128.140.140
CRANE	2737_1	BOILER HOUSE	RTU	2	10.128.140.141

WIRELESS INTRUSION DETECTION SENSORS

Site_Name	Bldg_Num	Bldg_Name	Mesh	WIDS	WIDS IP
CRANE	2724_2	2724	2	WIDS	10.128.140.252
CRANE	2728_1	2728	2	WIDS	10.128.140.254
CRANE	2737_1	BOILER HOUSE	2	WIDS	10.128.140.253

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 2 NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 10 OF 49 REV A00

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REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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WIRELESS MESH 3 NETWORK DEVICES

METER DEVICES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Meter IP
CRANE	145_1	COUNTERMEASURES LAB	8600	3	10.129.140.10
CRANE	145_2	COUNTERMEASURES LAB	8600	3	10.129.140.11
CRANE	146_1	MAGNESIUM RECOVERY (DEMIL)	8600	3	10.129.140.12
CRANE	146_2	MAGNESIUM RECOVERY (DEMIL)	8600	3	10.129.140.13
CRANE	148_1	PRODUCTION SUPPORT	8600	3	10.129.140.14
CRANE	148_2	PRODUCTION SUPPORT	8600	3	10.129.140.15
CRANE	149_1	BOILER HOUSE	8600	3	10.129.140.18
CRANE	2987_1	X-RAY BLDG	8600	3	10.129.140.16
CRANE	3260_1	ENVIRONMENTAL PROTECTION	8600	3	10.129.140.17
CRANE	148_1	PRODUCTION SUPPORT	RTU	3	10.129.140.19
CRANE	149_1	BOILER HOUSE	RTU	3	10.129.140.20
CRANE	2708_1	2708	RTU	3	10.129.140.21

RADIO DEVICES

Site_Name	Bldg_Num	Bldg_Name	Netwk_Conn	Mesh	Radio 1 IP	Radio 2 IP
CRANE	145_1	COUNTERMEASURES LAB	RADIO	3	10.129.140.119	N/A
CRANE	146_2	MAGNESIUM RECOVERY (DEMIL)	RADIO	3	10.129.140.118	N/A
CRANE	148_2	PRODUCTION SUPPORT	RADIO	3	10.129.140.117	N/A
CRANE	149_1	BOILER HOUSE	RADIO	3	10.129.140.114	N/A
CRANE	2987_1	X-RAY BLDG	RADIO	3	10.129.140.116	N/A
CRANE	3260_1	ENVIRONMENTAL PROTECTION	RADIO	3	10.129.140.115	N/A
CRANE	148_1	PRODUCTION SUPPORT	RADIO	3	10.129.140.113	N/A
CRANE	149_1	BOILER HOUSE	RADIO	3	10.129.140.107	N/A
CRANE	149_1	BOILER HOUSE	RADIO	3	10.129.140.112	N/A
CRANE	2708_1	2708	RADIO	3	10.129.140.111	N/A
CRANE	2993_1	BUILDING 2993	RADIO	3	10.129.140.109	N/A
CRANE	3260_1	ENVIRONMENTAL PROTECTION	RADIO (X2)	3	10.129.140.108	Not Used

SWITCHES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Switch IP
CRANE	145_2	COUNTERMEASURES LAB	8600	3	10.129.140.2
CRANE	146_1	MAGNESIUM RECOVERY (DEMIL)	8600	3	10.129.140.3
CRANE	148_1	PRODUCTION SUPPORT	8600	3	10.129.140.4
CRANE	2708_1	BUILDING 2708	RPT	3	10.129.140.5
CRANE	3260_1	ENVIRONMENTAL PROTECTION	RPT	3	10.1.140.19

WIRELESS INTRUSION DETECTION SENSORS

Site_Name	Bldg_Num	Bldg_Name	Mesh	WIDS	WIDS IP
CRANE	2708_1	BUILDING 2708	3	WIDS	10.129.140.124
CRANE	2993_1	BUILDING 2993	3	WIDS	10.129.140.125

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 3 NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 11 OF 49 REV A00

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REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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TO DWG. 29115563-012 PG. 05 (D)

TO DWG. 29115563-012 PG. 28 (T)

WIRELESS MESH 4 NETWORK DEVICES

METER DEVICES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Meter IP
CRANE	40_1	WAREHOUSE HEAVY MATERIALS	8600	4	10.129.140.150
CRANE	40_2	WAREHOUSE HEAVY MATERIALS	8600	4	10.129.140.151
CRANE	41_1	ELECT ENG & GENERAL WAREHOUSE	8600	4	10.129.140.152
CRANE	41_2	ELECT ENG & GENERAL WAREHOUSE	8600	4	10.129.140.153
CRANE	41_3	ELECT ENG & GENERAL WAREHOUSE	8600	4	10.129.140.154
CRANE	2034_1	DRMO	8600	4	10.129.140.156
CRANE	2035_1	ELECTRONICS ENG	8600	4	10.129.140.157
CRANE	2036_1	ELECTRONICS ENG	8600	4	10.129.140.158
CRANE	2692_1	ELECTRONICS ENG	8600	4	10.129.140.160
CRANE	2692_2	ELECTRONICS ENG	8600	4	10.129.140.161
CRANE	2692_3	ELECTRONICS ENG	8600	4	10.129.140.162
CRANE	3168_1	FLEET MICROWAVE SUP	8600	4	10.129.140.164
CRANE	3168_2	FLEET MICROWAVE SUP	8600	4	10.129.140.165
CRANE	3168_3	FLEET MICROWAVE SUP	8600	4	10.129.140.166
CRANE	3234_1	ELECTRO/MECHANICAL FACILITY	8600	4	10.129.140.167
CRANE	3234_2	ELECTRO/MECHANICAL FACILITY	8600	4	10.129.140.168
CRANE	3235_1	LITHIUM BATTERY FACILITY	8600	4	10.129.140.169
CRANE	3334_1	STRATEGIC WEAPONS	8600	4	10.129.140.172
CRANE	3168_1	FLEET MICROWAVE SUP	RTU	4	10.129.140.180
CRANE	3234_1	BLDG 3234	RTU	4	10.129.140.177
CRANE	3334_1	STRATEGIC WEAPONS	RTU	4	10.129.140.179

RADIO DEVICES

Site_Name	Bldg_Num	Bldg_Name	Netwk_Conn	Mesh	Radio 1 IP	Radio 2 IP
CRANE	40_1	WAREHOUSE HEAVY MATERIALS	RADIO	4	10.129.140.212	N/A
CRANE	41_1	ELECT ENG & GENERAL WAREHOUSE	RADIO	4	10.129.140.240	N/A
CRANE	41_2	ELECT ENG & GENERAL WAREHOUSE	RADIO	4	10.129.140.239	N/A
CRANE	41_3	ELECT ENG & GENERAL WAREHOUSE	RADIO	4	10.129.140.238	N/A
CRANE	2034_1	DRMO	RADIO	4	10.133.140.118	N/A
CRANE	2035_1	ELECTRONICS ENG	RADIO	4	10.129.140.235	N/A
CRANE	2036_1	ELECTRONICS ENG	RADIO	4	10.129.140.234	N/A
CRANE	2692_1	ELECTRONICS ENG	RADIO	4	10.129.140.211	N/A
CRANE	2692_2	ELECTRONICS ENG	RADIO	4	10.129.140.233	N/A
CRANE	2692_3	ELECTRONICS ENG	RADIO	4	10.129.140.210	N/A
CRANE	3168_3	FLEET MICROWAVE SUP	RADIO	4	10.129.140.231	N/A
CRANE	3234_2	ELECTRO/MECHANICAL FACILITY	RADIO	4	10.129.140.229	N/A
CRANE	3235_1	LITHIUM BATTERY FACILITY	RADIO	4	10.129.140.228	N/A
CRANE	3334_1	STRATEGIC WEAPONS	RADIO	4	10.129.140.225	N/A
CRANE	40_1	WAREHOUSE HEAVY MATERIALS	RADIO	4	10.129.140.215	N/A
CRANE	41_2	ELECT ENG & GENERAL WAREHOUSE	RADIO	4	10.129.140.214	N/A
CRANE	41_3	ELECT ENG & GENERAL WAREHOUSE	RADIO	4	10.129.140.209	N/A
CRANE	41_1	ELECT ENG & GENERAL WAREHOUSE	RADIO (X2)	4	10.129.140.213	10.1.140.168
CRANE	3168_1	FLEET MICROWAVE SUP	RADIO	4	10.129.140.217	N/A
CRANE	3234_1	BLDG 3234	RADIO	4	10.129.140.220	N/A
CRANE	3235_1	LITHIUM BATTERY FACILITY	RADIO	4	10.129.140.216	N/A
CRANE	3334_1	STRATEGIC WEAPONS	RADIO	4	10.129.140.218	N/A

SWITCHES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Switch IP
CRANE	40_2	WAREHOUSE HEAVY MATERIALS	8600	4	10.129.140.141
CRANE	3168_2	FLEET MICROWAVE SUP	8600	4	10.129.140.143
CRANE	3234_1	ELECTRO/MECHANICAL FACILITY	8600	4	10.129.140.144
CRANE	41_3	ELECT ENG & GENERAL WAREHOUSE	RPT	4	10.129.140.146
CRANE	41_1	ELECT ENG & GENERAL WAREHOUSE	RPT	4	10.1.140.20
CRANE	3234_1	BUILDING 3234	RPT	4	10.129.140.145

WIRELESS INTRUSION DETECTION SENSORS

Site_Name	Bldg_Num	Bldg_Name	Mesh	WIDS	WIDS IP
CRANE	40_1	WAREHOUSE HEAVY MATERIALS	4	WIDS	10.129.140.254
CRANE	41_3	ELECT ENG & GENERAL WAREHOUSE	4	WIDS	10.129.140.252
CRANE	3234_1	BUILDING 3234	4	WIDS	10.129.140.253

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 4 NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 12 OF 49 REV A00

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REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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TO DWG. 29115563-012 PG. 06
E

TO DWG. 29115563-012 PG. 29
U

WIRELESS MESH 5 NETWORK DEVICES

METER DEVICES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Meter IP
CRANE	121_1	CAFETERIA/TRAINING FACILITY	8600	5	10.130.140.10
CRANE	121_2	CAFETERIA/TRAINING FACILITY	8600	5	10.130.140.11
CRANE	121_3	CAFETERIA/TRAINING FACILITY	8600	5	10.130.140.12
CRANE	123_1	MACHINE SHOP	8600	5	10.130.140.13
CRANE	124_1	BLDG 124	8600	5	10.130.140.14
CRANE	125_1	BLDG 125	8600	5	10.130.140.15
CRANE	125_2	BLDG 125	8600	5	10.130.140.16
CRANE	128_1	BOILER HOUSE	8600	5	10.130.140.19
CRANE	2693_1	TELECOM	8600	5	10.130.140.20
CRANE	2956_1	AIR COMPRESSOR	8600	5	10.130.140.21
CRANE	3287_1	BATTERY EVALUATION	8600	5	10.130.140.22
CRANE	3287_2	BATTERY EVALUATION	8600	5	10.130.140.23
CRANE	3287_3	BATTERY EVALUATION	8600	5	10.130.140.24
CRANE	3287_4	BATTERY EVALUATION	8600	5	10.130.140.25
CRANE	3373_1	JOINT ORDNANCE ENG	8600	5	10.130.140.26
CRANE	3395_1	SUSTAINMENT ENGINEERING	8600	5	10.130.140.27
CRANE	3330C_1	ELECT/COMM ENGINEERING FACILITY	8600	5	10.130.140.28
CRANE	3330C_2	ELECT/COMM ENGINEERING FACILITY	8600	5	10.130.140.29
CRANE	3330N_1	ELECT/COMM ENGINEERING FACILITY	8600	5	10.130.140.30
CRANE	3330N_2	ELECT/COMM ENGINEERING FACILITY	8600	5	10.130.140.31
CRANE	3330S_1	ELECT/COMM ENGINEERING FACILITY	8600	5	10.130.140.32
CRANE	3330S_2	ELECT/COMM ENGINEERING FACILITY	8600	5	10.130.140.33
CRANE	3330W_1	ELECT/COMM ENGINEERING FACILITY	8600	5	10.130.140.34
CRANE	3330W_2	ELECT/COMM ENGINEERING FACILITY	8600	5	10.130.140.35
CRANE	121_1	CAFETERIA/TRAINING FACILITY	RTU	5	10.130.140.44
CRANE	121_2	CAFETERIA/TRAINING FACILITY	RTU	5	10.130.140.45
CRANE	122_1	122	RTU	5	10.130.140.36
CRANE	123_1	MACHINE SHOP	RTU	5	10.130.140.46
CRANE	128_1	BOILER HOUSE	RTU	5	10.130.140.39
CRANE	3064_1	BLDG 3064	RTU	5	10.130.140.42
CRANE	3287_1	BATTERY EVALUATION	RTU	5	10.130.140.48
CRANE	3287_2	BATTERY EVALUATION	RTU	5	10.130.140.49

RADIO DEVICES

Site_Name	Bldg_Num	Bldg_Name	Netwk_Conn	Mesh	Radio 1 IP	Radio 2 IP
CRANE	121_3	CAFETERIA/TRAINING FACILITY	RADIO	5	10.130.140.118	N/A
CRANE	123_1	MACHINE SHOP	RADIO	5	10.130.140.117	N/A
CRANE	124_1	BLDG 124	RADIO	5	10.130.140.116	N/A
CRANE	128_1	BOILER HOUSE	RADIO	5	10.130.140.89	N/A
CRANE	2693_1	TELECOM	RADIO	5	10.130.140.88	N/A
CRANE	2956_1	AIR COMPRESSOR	RADIO	5	10.130.140.87	N/A
CRANE	3287_3	BATTERY EVALUATION	RADIO	5	10.130.140.114	N/A
CRANE	3287_4	BATTERY EVALUATION	RADIO	5	10.130.140.113	N/A
CRANE	3373_1	JOINT ORDNANCE ENG	RADIO	5	10.130.140.112	N/A
CRANE	3395_1	SUSTAINMENT ENGINEERING	RADIO	5	10.130.140.111	N/A
CRANE	3330C_2	ELECT/COMM ENGINEERING FACILITY	RADIO	5	10.130.140.110	N/A
CRANE	3330N_2	ELECT/COMM ENGINEERING FACILITY	RADIO	5	10.130.140.109	N/A
CRANE	3330S_2	ELECT/COMM ENGINEERING FACILITY	RADIO	5	10.130.140.108	N/A
CRANE	3330W_1	ELECT/COMM ENGINEERING FACILITY	RADIO	5	10.130.140.107	N/A
CRANE	121_1	CAFETERIA/TRAINING FACILITY	RADIO	5	10.130.140.98	N/A
CRANE	121_2	CAFETERIA/TRAINING FACILITY	RADIO	5	10.130.140.97	N/A
CRANE	122_1	122	RADIO	5	10.130.140.106	N/A
CRANE	128_1	BOILER HOUSE	RADIO	5	10.130.140.103	N/A
CRANE	2693_1	TELECOM	RADIO (X2)	5	10.130.140.92	10.3.140.167
CRANE	3064_1	BLDG 3064	RADIO	5	10.130.140.100	N/A
CRANE	3287_1	BATTERY EVALUATION	RADIO	5	10.130.140.94	N/A
CRANE	3287_2	BATTERY EVALUATION	RADIO	5	10.130.140.93	N/A
CRANE	3330E_1	ELECT/COMM ENGINEERING FACILITY	RADIO	5	10.130.140.91	N/A

SWITCHES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Switch IP
CRANE	121_1	CAFETERIA/TRAINING FACILITY	8600	5	10.130.140.2
CRANE	125_2	BLDG 125	8600	5	10.130.140.3
CRANE	3287_1	BATTERY EVALUATION	8600	5	10.130.140.5
CRANE	3330C_1	ELECT/COMM ENGINEERING FACILITY	8600	5	10.130.140.6
CRANE	3330N_1	ELECT/COMM ENGINEERING FACILITY	8600	5	10.130.140.7
CRANE	3330S_1	ELECT/COMM ENGINEERING FACILITY	8600	5	10.130.140.8
CRANE	3330W_2	ELECT/COMM ENGINEERING FACILITY	8600	5	10.130.140.9
CRANE	121_2	CAFETERIA/TRAINING FACILITY	RPT	5	10.130.140.63
CRANE	123_1	MACHINE SHOP	RPT	5	10.130.140.64
CRANE	2693_1	TELECOM	RPT	5	10.3.140.21
CRANE	3287_3	BATTERY EVALUATION	RPT	5	10.130.140.65
CRANE	3330E_2	BUILDING 3330E	RPT	5	10.130.140.62

WIRELESS INTRUSION DETECTION SENSORS

Site_Name	Bldg_Num	Bldg_Name	Mesh	WIDS	WIDS IP
CRANE	121_2	CAFETERIA/TRAINING FACILITY	5	WIDS	10.130.140.125
CRANE	123_1	MACHINE SHOP	5	WIDS	10.130.140.124
CRANE	3287_3	BATTERY EVALUATION	5	WIDS	10.130.140.127
CRANE	3330E_2	BUILDING 3330E	5	WIDS	10.130.140.126

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 5 NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 13 OF 49 REV A00

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REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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TO DWG. 29115563-012 PG. 05 (F)

TO DWG. 29115563-012 PG. 31 (V)

WIRELESS MESH 6 NETWORK DEVICES

METER DEVICES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Meter IP
CRANE	1_1	HEADQUARTERS	8600	6	10.130.140.150
CRANE	2_1	ADMIN SUPPORT BLDG	8600	6	10.130.140.151
CRANE	2_2	ADMIN SUPPORT BLDG	8600	6	10.130.140.152
CRANE	4_1	WATER PLANT	8600	6	10.130.140.153
CRANE	5_1	ADMIN SUPPORT BLDG	8600	6	10.130.140.154
CRANE	5_2	ADMIN SUPPORT BLDG	8600	6	10.130.140.155
CRANE	6_1	POST OFFICE	8600	6	10.130.140.174
CRANE	7_1	LOCOMOTIVE MAINTENANCE	8600	6	10.130.140.156
CRANE	10_1	FIRE DEPARTMENT	8600	6	10.130.140.157
CRANE	11_1	RADIO	8600	6	10.130.140.169
CRANE	14_1	DAVID REECE CENTER	PM850	6	10.130.140.170
CRANE	18_1	PRINT SHOP	8600	6	10.130.140.158
CRANE	18_2	PRINT SHOP	8600	6	10.130.140.159
CRANE	56_1	NAVFAC	8600	6	10.130.140.160
CRANE	77_1	GYM	8600	6	10.130.140.161
CRANE	2517_1	NAVFAC SHOP	8600	6	10.130.140.172
CRANE	2517_2	NAVFAC SHOP	8600	6	10.130.140.173
CRANE	2539_1	ADMIN	8600	6	10.130.140.146
CRANE	1_1	HEADQUARTERS	RTU	6	10.130.140.163
CRANE	2_1	BLDG 2	RTU	6	10.130.140.164
CRANE	7_1	LOCOMOTIVE MAINTENANCE	RTU	6	10.130.140.165
CRANE	10_1	FIRE DEPARTMENT	RTU	6	10.130.140.166
CRANE	56_1	NAVFAC	RTU	6	10.130.140.167
CRANE	77_1	GYM	RTU	6	10.130.140.168

RADIO DEVICES

Site_Name	Bldg_Num	Bldg_Name	Netwk_Conn	Mesh	Radio 1 IP	Radio 2 IP
CRANE	1_1	HEADQUARTERS	RADIO	6	10.130.140.240	N/A
CRANE	2_2	ADMIN SUPPORT BLDG	RADIO	6	10.130.140.239	N/A
CRANE	4_1	WATER PLANT	RADIO	6	10.130.140.238	N/A
CRANE	5_1	ADMIN SUPPORT BLDG	RADIO	6	10.130.140.237	N/A
CRANE	7_1	LOCOMOTIVE MAINTENANCE	RADIO	6	10.130.140.236	N/A
CRANE	10_1	FIRE DEPARTMENT	RADIO	6	10.130.140.235	N/A
CRANE	11_1	RADIO	RADIO	6	10.130.140.241	N/A
CRANE	18_1	PRINT SHOP	RADIO	6	10.130.140.234	N/A
CRANE	18_2	PRINT SHOP	RADIO	6	10.130.140.233	N/A
CRANE	56_1	NAVFAC	RADIO	6	10.130.140.232	N/A
CRANE	77_1	GYM	RADIO	6	10.130.140.231	N/A
CRANE	2517_1	NAVFAC SHOP	RADIO	6	10.130.140.242	N/A
CRANE	1_1	HEADQUARTERS	RADIO	6	10.130.140.229	N/A
CRANE	1_1	HEADQUARTERS	RADIO	6	10.130.140.223	N/A
CRANE	2_1	BLDG 2	RADIO (X2)	6	10.130.140.228	10.130.140.230
CRANE	5_1	ADMIN SUPPORT BLDG	RADIO	6	10.130.140.222	N/A
CRANE	7_1	LOCOMOTIVE MAINTENANCE	RADIO	6	10.130.140.227	N/A
CRANE	10_1	FIRE DEPARTMENT	RADIO	6	10.130.140.226	N/A
CRANE	56_1	NAVFAC	RADIO	6	10.130.140.225	N/A
CRANE	77_1	GYM	RADIO	6	10.130.140.220	N/A
CRANE	77_1	GYM	RADIO	6	10.130.140.224	N/A

SWITCHES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Switch IP
CRANE	2_1	ADMIN SUPPORT BLDG	8600	6	10.130.140.140
CRANE	5_2	ADMIN SUPPORT BLDG	8600	6	10.130.140.141
CRANE	6_1	POST OFFICE	8600	6	10.130.140.148
CRANE	2517_2	NAVFAC SHOP	8600	6	10.130.140.149
CRANE	2539_1	ADMIN	8600	6	10.130.140.146
CRANE	2_1	BLDG 2	RTU	6	10.130.140.142
CRANE	7_1	LOCOMOTIVE MAINTENANCE	RTU	6	10.130.140.143
CRANE	10_1	FIRE DEPARTMENT	RTU	6	10.130.140.144
CRANE	56_1	NAVFAC	RTU	6	10.130.140.147
CRANE	77_2	GYM	RPT	6	10.130.140.145

WIRELESS INTRUSION DETECTION SENSORS

Site_Name	Bldg_Num	Bldg_Name	Mesh	WIDS	WIDS IP
CRANE	7_1	LOCOMOTIVE MAINTENANCE	6	WIDS	10.130.140.254
CRANE	56_1	NAVFAC	6	WIDS	10.130.140.253
CRANE	77_2	GYM	6	WIDS	10.130.140.252

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 6 NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 14 OF 49 REV A00

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REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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TO DWG. 29115563-012 PG. 06
G

TO DWG. 29115563-012 PG. 32
W

WIRELESS MESH 7 NETWORK DEVICES

METER DEVICES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Meter IP
CRANE	34_1	BATTERY TEST LAB	8600	7	10.131.140.10
CRANE	36_1	AUTOMOTIVE VEHICLE MAINTENANCE	8600	7	10.131.140.11
CRANE	180_1	SERVMART	8600	7	10.131.140.13
CRANE	180_2	SERVMART	8600	7	10.131.140.14
CRANE	355_1	EOD STORAGE	8600	7	10.131.140.25
CRANE	1893_1	NAVY EXCHANGE	8600	7	10.131.140.17
CRANE	1893_2	NAVY EXCHANGE	8600	7	10.131.140.17
CRANE	1894_1	COMMISSARY	8600	7	10.131.140.18
CRANE	2516_1	NAVFAC/MEDICAL CLINIC	8600	7	10.131.140.21
CRANE	2516_2	NAVFAC/MEDICAL CLINIC	8600	7	10.131.140.22
CRANE	2721_1	EOD	8600	7	10.131.140.26
CRANE	3188_1	ELECTRONICS ENG	8600	7	10.131.140.29
CRANE	3219_1	NSA ADMIN FACILITY	8600	7	10.131.140.41
CRANE	34_1	BATTERY TEST LAB	RTU	7	10.131.140.30
CRANE	36_2	AUTOMOTIVE VEHICLE MAINTENANCE	RTU	7	10.131.140.40
CRANE	180_1	SERVMART	RTU	7	10.131.140.32
CRANE	2516_1	NAVFAC/MEDICAL CLINIC	RTU	7	10.131.140.35
CRANE	2721_1	EOD	RTU	7	10.131.140.37

RADIO DEVICES

Site_Name	Bldg_Num	Bldg_Name	Netwk_Conn	Mesh	Radio 1 IP	Radio 2 IP
CRANE	34_1	BATTERY TEST LAB	RADIO	7	10.131.140.118	N/A
CRANE	36_1	AUTOMOTIVE VEHICLE MAINTENANCE	RADIO	7	10.131.140.119	N/A
CRANE	180_1	SERVMART	RADIO	7	10.131.140.117	N/A
CRANE	180_2	SERVMART	RADIO	7	10.131.140.116	N/A
CRANE	355_1	EOD STORAGE	RADIO	7	10.131.140.101	N/A
CRANE	1893_2	NAVY EXCHANGE	RADIO	7	10.131.140.96	N/A
CRANE	1894_1	COMMISSARY	RADIO	7	10.131.140.120	N/A
CRANE	2516_2	NAVFAC/MEDICAL CLINIC	RADIO	7	10.131.140.111	N/A
CRANE	2721_1	EOD	RADIO	7	10.131.140.110	N/A
CRANE	3188_1	ELECTRONICS ENG	RADIO	7	10.131.140.109	N/A
CRANE	3219_1	NSA ADMIN FACILITY	RADIO	7	10.131.140.91	N/A
CRANE	34_1	BATTERY TEST LAB	RADIO (X2)	7	10.131.140.108	10.3.140.166
CRANE	36_1	AUTOMOTIVE VEHICLE MAINTENANCE	RADIO	7	10.131.140.95	N/A
CRANE	36_2	AUTOMOTIVE VEHICLE MAINTENANCE	RADIO	7	10.131.140.105	N/A
CRANE	180_1	SERVMART	RADIO	7	10.131.140.102	N/A
CRANE	2516_1	NAVFAC/MEDICAL CLINIC	RADIO	7	10.131.140.99	N/A
CRANE	2721_1	EOD	RADIO	7	10.131.140.97	N/A
CRANE	NEX_1	NEX	RADIO (X2)	7	10.131.140.92	Not Used
CRANE	NEX_2	NEX	RADIO	7	10.131.140.93	N/A

SWITCHES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Switch IP
CRANE	1893_1	NAVY EXCHANGE	8600	7	10.131.140.4
CRANE	2516_1	NAVFAC/MEDICAL CLINIC	8600	7	10.131.140.7
CRANE	34_1	BATTERY TEST LAB	RTU	7	10.131.140.6
CRANE	36_3	AUTOMOTIVE VEHICLE MAINTENANCE	RPT	7	10.131.140.61
CRANE	180_1	SERVMART	RPT	7	10.131.140.9
CRANE	1892_2	BUILDING 1892	RPT	7	10.131.140.60
CRANE	2516_1	NAVFAC/MEDICAL CLINIC	RTU	7	10.131.140.8

WIRELESS INTRUSION DETECTION SENSORS

Site_Name	Bldg_Num	Bldg_Name	Mesh	WIDS	WIDS IP
CRANE	36_3	AUTOMOTIVE VEHICLE MAINTENANCE	7	WIDS	10.130.140.122
CRANE	180_1	SERVMART	7	WIDS	10.131.140.124
CRANE	1892_2	BUILDING 1892	7	WIDS	10.130.140.123
CRANE	2516_1	NAVFAC/MEDICAL CLINIC	7	WIDS	10.131.140.125

DATA FLOW
CAT 6 CABLE (330' MAX)
EXISTING T1 LINE
EXISTING SINGLEMODE FIBER
NEW SINGLEMODE FIBER
EXISTING MULTIMODE FIBER
NEW MULTIMODE FIBER
EXISTING TWISTED PAIR
NEW TWISTED PAIR
WIRELESS SIGNAL
SQUARE D ELECTRIC METER ENCLOSURE
SQUARE D SWITCH/ REPEATER ENCLOSURE
SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 7 NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 15 OF 49 REV A00

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WIRELESS MESH 8 NETWORK DEVICES

METER DEVICES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Meter IP
CRANE	136_1	INITIATING DEVICE FACILITY	8600	8	10.131.140.150
CRANE	138_1	EXPLOSIVE PELLET FACILITY	8600	8	10.131.140.151
CRANE	138_2	EXPLOSIVE PELLET FACILITY	8600	8	10.131.140.152
CRANE	140_1	BOILER HOUSE	8600	8	10.131.140.153
CRANE	2520_1	INITIATING DEVICE FACILITY	8600	8	10.131.140.159
CRANE	2520_2	INITIATING DEVICE FACILITY	8600	8	10.131.140.160
CRANE	136_1	INITIATING DEVICE FACILITY	RTU	8	10.131.140.155
CRANE	138_1	EXPLOSIVE PELLET FACILITY	RTU	8	10.131.140.156
CRANE	140_1	BOILER HOUSE	RTU	8	10.131.140.157
CRANE	2520_1	2520	RTU	8	10.131.140.158

RADIO DEVICES

Site_Name	Bldg_Num	Bldg_Name	Netwk_Conn	Mesh	Radio 1 IP	Radio 2 IP
CRANE	136_1	INITIATING DEVICE FACILITY	RADIO	8	10.131.140.240	N/A
CRANE	138_2	EXPLOSIVE PELLET FACILITY	RADIO	8	10.131.140.239	N/A
CRANE	2520_1	INITIATING DEVICE FACILITY	RADIO	8	10.131.140.241	N/A
CRANE	136_1	INITIATING DEVICE FACILITY	RADIO	8	10.131.140.237	N/A
CRANE	138_1	EXPLOSIVE PELLET FACILITY	RADIO	8	10.131.140.233	N/A
CRANE	138_1	EXPLOSIVE PELLET FACILITY	RADIO	8	10.131.140.236	N/A
CRANE	138_3	EXPLOSIVE PELLET FACILITY	RADIO	8	10.131.140.236	N/A
CRANE	138_4	EXPLOSIVE PELLET FACILITY	RADIO	8	10.131.140.235	N/A
CRANE	140_1	BOILER HOUSE	RADIO	8	10.131.140.235	N/A
CRANE	2520_1	2520	RADIO	8	10.131.140.234	N/A
CRANE	2520_1	2520_1	RADIO	8	10.131.140.231	N/A

SWITCHES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Switch IP
CRANE	138_1	EXPLOSIVE PELLET FACILITY	8600	8	10.131.140.140
CRANE	2520_2	INITIATING DEVICE FACILITY	8600	8	10.131.140.143
CRANE	138_1	EXPLOSIVE PELLET FACILITY	RPT	8	10.131.140.141
CRANE	138_4	EXPLOSIVE PELLET FACILITY	RPT	8	10.131.140.142

WIRELESS INTRUSION DETECTION SENSORS

Site_Name	Bldg_Num	Bldg_Name	Mesh	WIDS	WIDS IP
CRANE	138_2	EXPLOSIVE PELLET FACILITY	8	WIDS	10.131.140.253
CRANE	2520_1	2520_1	8	WIDS	10.131.140.254

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 8 NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 16 OF 49 REV A00

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WIRELESS MESH 9 NETWORK DEVICES

METER DEVICES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Meter IP
CRANE	151_1	PRODUCTION SUPPORT	8600	9	10.132.140.11
CRANE	155_1	STORAGE	8600	9	10.132.140.12
CRANE	155_2	STORAGE	8600	9	10.132.140.10
CRANE	155_3	STORAGE	8600	9	10.132.140.21
CRANE	160_1	COOLING, TEMP STORAGE	8600	9	10.132.140.13
CRANE	155_1	STORAGE	RTU	9	10.132.140.14
CRANE	160_1	COOLING, TEMP STORAGE	RTU	9	10.132.140.15
CRANE	3110_1	3110	RTU	9	10.132.140.16
CRANE	3111_1	3111	RTU	9	10.132.140.17
CRANE	D_ENGY_1	DUKE ENERGY METERING STATION	RTU	9	10.132.140.20

RADIO DEVICES

Site_Name	Bldg_Num	Bldg_Name	Netwk_Conn	Mesh	Radio 1 IP	Radio 2 IP
CRANE	151_1	PRODUCTION SUPPORT	RADIO	9	10.132.140.118	N/A
CRANE	155_1	STORAGE	RADIO	9	10.132.140.117	N/A
CRANE	155_2	STORAGE	RADIO	9	10.132.140.117	N/A
CRANE	160_1	COOLING, TEMP STORAGE	RADIO	9	10.132.140.116	N/A
CRANE	155_1	STORAGE	RADIO	9	10.132.140.115	N/A
CRANE	160_1	COOLING, TEMP STORAGE	RADIO	9	10.132.140.114	N/A
CRANE	3110_1	3110	RADIO (X2)	9	10.132.140.113	Not Used
CRANE	3111_1	3111	RADIO	9	10.132.140.112	N/A
CRANE	D_ENGY_1	DUKE ENERGY METERING STATION	RADIO	9	10.132.140.111	N/A

SWITCHES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Switch IP
CRANE	155_3	STORAGE	8600	9	10.132.140.4
CRANE	160_1	COOLING, TEMP STORAGE	RPT	9	10.132.140.2
CRANE	3110_1	3110	RTU	9	10.132.140.3

WIRELESS INTRUSION DETECTION SENSORS

Site_Name	Bldg_Num	Bldg_Name	Mesh	WIDS	WIDS IP
CRANE	160_1	COOLING, TEMP STORAGE	9	WIDS	10.132.140.126

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 9 NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 17 OF 49 REV A00

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WIRELESS MESH 10 NETWORK DEVICES

METER DEVICES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Meter IP
CRANE	165_1	C-4 EXTRUSION FACILITY	8600	10	10.132.140.150
CRANE	165_2	C-4 EXTRUSION FACILITY	8600	10	10.132.140.151
CRANE	165_3	C-4 EXTRUSION FACILITY	8600	10	10.132.140.152
CRANE	174_1	COOLING, TEMP STORAGE	8600	10	10.132.140.153
CRANE	174_2	COOLING, TEMP STORAGE	8600	10	10.132.140.154
CRANE	3297_1	CONTROLLED HUMIDITY WAREHOUSE	8600	10	10.132.140.155
CRANE	165_1	C-4 EXTRUSION FACILITY	RTU	10	10.132.140.156
CRANE	169_1	169	RTU	10	10.132.140.157
CRANE	174_1	COOLING, TEMP STORAGE	RTU	10	10.132.140.158
CRANE	2532_1	2532	RTU	10	10.132.140.159
CRANE	3299_1	3299	RTU	10	10.132.140.160

RADIO DEVICES

Site_Name	Bldg_Num	Bldg_Name	Netwk_Conn	Mesh	Radio 1 IP	Radio 2 IP
CRANE	165_1	C-4 EXTRUSION FACILITY	RADIO	10	10.132.140.240	N/A
CRANE	165_2	C-4 EXTRUSION FACILITY	RADIO	10	10.132.140.239	N/A
CRANE	165_3	C-4 EXTRUSION FACILITY	RADIO	10	10.132.140.238	N/A
CRANE	3297_1	CONTROLLED HUMIDITY WAREHOUSE	RADIO	10	10.132.140.237	N/A
CRANE	165_1	C-4 EXTRUSION FACILITY	RADIO	10	10.132.140.236	N/A
CRANE	169_1	169	RADIO	10	10.132.140.235	N/A
CRANE	171_1	171_1	RADIO	10	10.132.140.228	N/A
CRANE	174_1	COOLING, TEMP STORAGE	RADIO	10	10.132.140.234	N/A
CRANE	2532_1	2532	RADIO (X2)	10	10.132.140.233	Not Used
CRANE	3299_1	3299	RADIO	10	10.132.140.232	N/A

SWITCHES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Switch IP
CRANE	174_1	COOLING, TEMP STORAGE	8600	10	10.132.140.140
CRANE	165_1	C-4 EXTRUSION FACILITY	RPT	10	10.132.140.142
CRANE	174_1	COOLING, TEMP STORAGE	RTU	10	10.132.140.141
CRANE	2532_1	2532	RTU	10	10.132.140.143

WIRELESS INTRUSION DETECTION SENSORS

Site_Name	Bldg_Num	Bldg_Name	Mesh	WIDS	WIDS IP
CRANE	165_1	C-4 EXTRUSION FACILITY	10	WIDS	10.132.140.252
CRANE	171_1	171_1	10	WIDS	10.132.140.253
CRANE	174_1	COOLING, TEMP STORAGE	10	WIDS	10.132.140.254

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 10 NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563-012	PG 18 OF 49 REV A00

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WIRELESS MESH 11 NETWORK DEVICES

METER DEVICES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Meter IP
CRANE	1909_1	CLUB	8600	11	10.133.140.10
CRANE	1909_2	CLUB	8600	11	10.133.140.11
CRANE	3319_1	BEQ	8600	11	10.133.140.12
CRANE	3319_2	BEQ	RTU	11	10.133.140.14
CRANE	3319_1	BEQ	RTU	11	10.133.140.13

RADIO DEVICES

Site_Name	Bldg_Num	Bldg_Name	Netwk_Conn	Mesh	Radio 1 IP	Radio 2 IP
CRANE	1909_2	CLUB	RADIO	11	10.133.140.119	N/A
CRANE	3319_1	BEQ	RADIO	11	10.133.140.118	N/A
CRANE	3319_2	BEQ	RADIO	11	10.133.140.116	N/A
CRANE	3319_1	BEQ	RADIO	11	10.133.140.117	N/A
CRANE	3319_1	BEQ	RADIO	11	10.133.140.115	N/A

SWITCHES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Switch IP
CRANE	1909_1	CLUB	8600	11	10.133.140.2
CRANE	3319_2	BEQ	RTU	11	10.133.140.4
CRANE	3319_1	BEQ	RTU	11	10.133.140.3
CRANE	3319_2	BEQ	RPT	11	10.133.140.5

WIRELESS INTRUSION DETECTION SENSORS

Site_Name	Bldg_Num	Bldg_Name	Mesh	WIDS	WIDS IP
CRANE	3319_2	BEQ	11	WIDS	10.133.140.126
CRANE	3319_2	BEQ	11	WIDS	10.133.140.125

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 11 NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 19 OF 49 REV A00

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WIRELESS MESH 12 NETWORK DEVICES

METER DEVICES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Meter IP
CRANE	198_1	ORDNANCE PROTOTYPE DEV	8600	12	10.133.140.151
CRANE	199_1	BOILER HOUSE	8600	12	10.133.140.154
CRANE	2084_1	ORDNANCE OPERATIONS	8600	12	10.133.140.158
CRANE	2540_1	ORDNANCE OPERATIONS LUNCH & LOCKER	8600	12	10.133.140.159
CRANE	3087_1	WINDSTREAM TESTING	8600	12	10.133.140.160
CRANE	3342_1	WINDSTREAM CONTROLS	8600	12	10.133.140.150
CRANE	198_1	ORDNANCE PROTOTYPE DEV	RTU	12	10.133.140.161
CRANE	2869_1	BLDG 2869	RTU	12	10.133.140.162
CRANE	3115_1	BLDG 3115	RTU	12	10.133.140.163

RADIO DEVICES

Site_Name	Bldg_Num	Bldg_Name	Netwk_Conn	Mesh	Radio 1 IP	Radio 2 IP
CRANE	198_1	ORDNANCE PROTOTYPE DEV	RADIO	12	10.133.140.239	N/A
CRANE	199_1	BOILER HOUSE	RADIO	12	10.133.140.237	N/A
CRANE	2084_1	ORDNANCE OPERATIONS	RADIO	12	10.133.140.235	N/A
CRANE	2540_1	ORDNANCE OPERATIONS LUNCH & LOCKER	RADIO	12	10.133.140.234	N/A
CRANE	3342_1	WINDSTREAM CONTROLS	RADIO	12	10.133.140.233	N/A
CRANE	198_1	ORDNANCE PROTOTYPE DEV	RADIO	12	10.133.140.231	N/A
CRANE	2540_1	ORDNANCE OPERATIONS LUNCH & LOCKER	RADIO (X2)	12	10.133.140.240	Not Used
CRANE	2869_1	BLDG 2869	RADIO	12	10.133.140.230	N/A
CRANE	2869_1	BLDG 2869	RADIO	12	10.133.140.225	N/A
CRANE	3115_1	BLDG 3115	RADIO	12	10.133.140.229	N/A
CRANE	3323_1	3323_1	RADIO	12	10.133.140.224	N/A

SWITCHES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Switch IP
CRANE	3087_1	WINDSTREAM TESTING	8600	12	10.133.140.142
CRANE	198_1	ORDNANCE PROTOTYPE DEV	RPT	12	10.133.140.141
CRANE	3323_2	BUILDING 3323	RPT	12	10.133.140.143

WIRELESS INTRUSION DETECTION SENSORS

Site_Name	Bldg_Num	Bldg_Name	Mesh	WIDS	WIDS IP
CRANE	198_1	ORDNANCE PROTOTYPE DEV	12	WIDS	10.133.140.254
CRANE	3323_2	BUILDING 3323	12	WIDS	10.133.140.253

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 12 NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 20 OF 49 REV A00

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REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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TO DWG. 29115563-012 PG. 05 (M)

TO DWG. 29115563-012 PG. 37 (AB)

WIRELESS MESH 13 NETWORK DEVICES

METER DEVICES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Meter IP
CRANE	64_1	WAREHOUSE ADMIN	8600	13	10.134.140.10
CRANE	2748_1	STORAGE	8600	13	10.134.140.11
CRANE	3291_1	ELECTRO-OPTICS	8600	13	10.134.140.12
CRANE	3324_1	CHEM-BIO DETECTION	8600	13	10.134.140.13
CRANE	64_1	WAREHOUSE ADMIN	RTU	13	10.134.140.14
CRANE	3324_1	CHEM-BIO DETECTION	RTU	13	10.134.140.16

RADIO DEVICES

Site_Name	Bldg_Num	Bldg_Name	Netwk_Conn	Mesh	Radio 1 IP	Radio 2 IP
CRANE	64_1	WAREHOUSE ADMIN	RADIO	13	10.134.140.119	N/A
CRANE	2748_1	STORAGE	RADIO	13	10.134.140.118	N/A
CRANE	3291_1	ELECTRO-OPTICS	RADIO	13	10.134.140.117	N/A
CRANE	3324_1	CHEM-BIO DETECTION	RADIO	13	10.134.140.116	N/A
CRANE	64_1	WAREHOUSE ADMIN	RADIO	13	10.134.140.115	N/A
CRANE	3324_1	CHEM-BIO DETECTION	RADIO (X2)	13	10.134.140.112	10.1.140.165

SWITCHES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Switch IP
CRANE	64_1	WAREHOUSE ADMIN	RPT	13	10.134.140.4
CRANE	2748_3	STORAGE	RPT	13	10.134.140.3
CRANE	3324_1	CHEM-BIO DETECTION	RTU	13	10.134.140.2

WIRELESS INTRUSION DETECTION SENSORS

Site_Name	Bldg_Num	Bldg_Name	Mesh	WIDS	WIDS IP
CRANE	64_1	WAREHOUSE ADMIN	13	WIDS	10.134.140.125
CRANE	2748_3	STORAGE	13	WIDS	10.134.140.126

DATA FLOW
CAT 6 CABLE (330' MAX)
EXISTING T1 LINE
EXISTING SINGLEMODE FIBER
NEW SINGLEMODE FIBER
EXISTING MULTIMODE FIBER
NEW MULTIMODE FIBER
EXISTING TWISTED PAIR
NEW TWISTED PAIR
WIRELESS SIGNAL
SQUARE D ELECTRIC METER ENCLOSURE
SQUARE D SWITCH/ REPEATER ENCLOSURE
SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 13 NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563-012	PG 21 OF 49 REV A00

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TO DWG. 29115563-012 PG. 05
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TO DWG. 29115563-012 PG. 38
AC

WIRELESS MESH 14 NETWORK DEVICES

METER DEVICES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Meter IP
CRANE	126_1	ILLUMINANT BLDG PYRO	8600	14	10.134.140.150
CRANE	126_MAIN	ILLUMINANT BLDG PYRO	PM850	14	10.134.140.150/7801/2
CRANE	133_1	ILLUMINANT BLDG PYRO	PM850	14	10.134.140.150/7801/3
CRANE	133_2	ILLUMINANT BLDG PYRO	PM850	14	10.134.140.150/7801/4
CRANE	133_3	ILLUMINANT BLDG PYRO	PM850	14	10.134.140.150/7801/5
CRANE	2854_1	ILLUMINANT BLDG PYRO	PM850	14	10.134.140.150/7801/6
CRANE	2854_2	ILLUMINANT BLDG PYRO	PM850	14	10.134.140.150/7801/7
CRANE	3296_1	ILLUMINANT BLDG PYRO	PM850	14	10.134.140.150/7801/8
CRANE	2713_1	TRANSPORTATION MAINT SHOP	8600	14	10.134.140.152
CRANE	2713_2	TRANSPORTATION MAINT SHOP	8600	14	10.134.140.153
CRANE	2713_3	TRANSPORTATION MAINT SHOP	8600	14	10.134.140.154
CRANE	3173_1	DATA PROCESSING CENTER	8600	14	10.134.140.155
CRANE	3173_2	DATA PROCESSING CENTER	8600	14	10.134.140.156
CRANE	126_1	ILLUMINANT BLDG PYRO	RTU	14	10.134.140.157
CRANE	127_1	BLDG 127	RTU	14	10.134.140.158
CRANE	1819_1	BLDG 1819	RTU	14	10.134.140.159
CRANE	2697_1	BLDG 2697	RTU	14	10.134.140.160
CRANE	2698_1	BLDG 2698	RTU	14	10.134.140.161
CRANE	2713_1	TRANSPORTATION MAINT SHOP	RTU	14	10.134.140.162
CRANE	3148_1	BLDG 3148	RTU	14	10.134.140.163
CRANE	3173_1	DATA PROCESSING CENTER	RTU	14	10.134.140.164
CRANE	3412_1	CAR WASH	RTU	14	10.134.140.165

RADIO DEVICES

Site_Name	Bldg_Num	Bldg_Name	Netwk_Conn	Mesh	Radio 1 IP	Radio 2 IP
CRANE	126_1	ILLUMINANT BLDG PYRO	RADIO	14	10.134.140.240	N/A
CRANE	2713_2	TRANSPORTATION MAINT SHOP	RADIO	14	10.134.140.239	N/A
CRANE	2713_3	TRANSPORTATION MAINT SHOP	RADIO	14	10.134.140.238	N/A
CRANE	3173_1	DATA PROCESSING CENTER	RADIO	14	10.134.140.237	N/A
CRANE	3173_2	DATA PROCESSING CENTER	RADIO	14	10.134.140.236	N/A
CRANE	126_1	ILLUMINANT BLDG PYRO	RADIO	14	10.134.140.235	N/A
CRANE	127_1	BLDG 127	RADIO	14	10.134.140.234	N/A
CRANE	133_1	BUILDING 133	RADIO	14	10.134.140.222	N/A
CRANE	1819_1	BLDG 1819	RADIO	14	10.134.140.233	N/A
CRANE	2680_1	2680_1	RADIO	14	10.134.140.232	N/A
CRANE	2697_1	BLDG 2697	RADIO	14	10.134.140.231	N/A
CRANE	2698_1	BLDG 2698	RADIO	14	10.134.140.230	N/A
CRANE	2713_2	TRANSPORTATION MAINT SHOP	RADIO	14	10.134.140.223	N/A
CRANE	2713_1	TRANSPORTATION MAINT SHOP	RADIO	14	10.134.140.229	N/A
CRANE	3148_1	BLDG 3148	RADIO	14	10.134.140.228	N/A
CRANE	3173_2	DATA PROCESSING CENTER	RADIO	14	10.134.140.225	N/A
CRANE	3173_1	DATA PROCESSING CENTER	RADIO (X2)	14	10.134.140.227	10.3.140.164
CRANE	3173_1	DATA PROCESSING CENTER	RADIO	14	10.134.140.226	N/A
CRANE	3412_1	CAR WASH	RADIO	14	10.134.140.224	N/A

SWITCHES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Switch IP
CRANE	2713_1	TRANSPORTATION MAINT SHOP	8600	14	10.134.140.141
CRANE	2713_1	TRANSPORTATION MAINT SHOP	RPT	14	10.134.140.143
CRANE	3173_3	DATA PROCESSING CENTER	RPT	14	10.134.140.144
CRANE	3173_1	DATA PROCESSING CENTER	RTU	14	10.134.140.142

WIRELESS INTRUSION DETECTION SENSORS

Site_Name	Bldg_Num	Bldg_Name	Mesh	WIDS	WIDS IP
CRANE	2713_1	TRANSPORTATION MAINT SHOP	14	WIDS	10.134.140.254
CRANE	3173_3	DATA PROCESSING CENTER	14	WIDS	10.134.140.253

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 14 NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 22 OF 49 REV A00

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TO DWG. 29115563-012 PG. 05
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TO DWG. 29115563-012 PG. 39
AD

WIRELESS MESH 15 NETWORK DEVICES

METER DEVICES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Meter IP
CRANE	107_1	BLDG 107	8600	15	10.135.140.20
CRANE	107_2	BLDG 107	8600	15	10.135.140.21
CRANE	115_1	BOILER HOUSE	8600	15	10.135.140.10
CRANE	3331_1	AMMO CONTAINER MAIN	8600	15	10.135.140.11
CRANE	106_3	BLDG 106	RTU	15	10.135.140.14
CRANE	106_2	BLDG 106	RTU	15	10.135.140.13
CRANE	107_1	BLDG 107	RTU	15	10.135.140.15
CRANE	115_1	BOILER HOUSE	RTU	15	10.135.140.16
CRANE	119_1	BLDG 119	RTU	15	10.135.140.17
CRANE	227_1	BLDG 227	RTU	15	10.135.140.19

RADIO DEVICES

Site_Name	Bldg_Num	Bldg_Name	Netwk_Conn	Mesh	Radio 1 IP	Radio 2 IP
CRANE	107_1	BLDG 107	RADIO	15	10.135.140.120	N/A
CRANE	115_1	BOILER HOUSE	RADIO	15	10.135.140.119	N/A
CRANE	3331_1	AMMO CONTAINER MAIN	RADIO	15	10.135.140.118	N/A
CRANE	106_1	BLDG 106	RADIO	15	10.135.140.117	N/A
CRANE	106_3	BLDG 106	RADIO	15	10.135.140.115	N/A
CRANE	106_2	BLDG 106	RADIO	15	10.135.140.116	N/A
CRANE	107_1	BLDG 107	RADIO (X2)	15	10.135.140.114	127.0.0.1
CRANE	115_1	BOILER HOUSE	RADIO	15	10.135.140.113	N/A
CRANE	119_1	BLDG 119	RADIO	15	10.135.140.112	N/A
CRANE	227_1	BLDG 227	RADIO	15	10.135.140.110	N/A

SWITCHES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Switch IP
CRANE	107_2	BLDG 107	8600	15	10.135.140.5
CRANE	107_1	BLDG 107	RTU	15	10.135.140.2
CRANE	115_1	BOILER HOUSE	RPT	15	10.135.140.3
CRANE	119_1	BUILDING 119	RPT	15	10.135.140.4

WIRELESS INTRUSION DETECTION SENSORS

Site_Name	Bldg_Num	Bldg_Name	Mesh	WIDS	WIDS IP
CRANE	115_1	BOILER HOUSE	15	WIDS	10.135.140.126
CRANE	119_1	BUILDING 119	15	WIDS	10.135.140.125

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 15 NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 23 OF 49 REV A00

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TO DWG. 29115563-012 PG. 05
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TO DWG. 29115563-012 PG. 39
AE

WIRELESS MESH 16 NETWORK DEVICES

METER DEVICES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Meter IP
CRANE	109_1	SP WARFARE LAB	8600	16	10.135.140.157
CRANE	142_1	ORDNANCE TEST & EVALUATION LAB	8600	16	10.135.140.158
CRANE	142_2	ORDNANCE TEST & EVALUATION LAB	8600	16	10.135.140.159
CRANE	142_3	ORDNANCE TEST & EVALUATION LAB	8600	16	10.135.140.160
CRANE	142_4	ORDNANCE TEST & EVALUATION	8600	16	10.135.140.155
CRANE	143_1	ORDNANCE TESTING FACILITY	8600	16	10.135.140.161
CRANE	143_2	ORDNANCE TESTING FACILITY	8600	16	10.135.140.162
CRANE	143_3	ORDNANCE TESTING FACILITY	8600	16	10.135.140.156
CRANE	142_1	ORDNANCE TEST & EVALUATION LAB	RTU	16	10.135.140.165
CRANE	143_1	ORDNANCE TESTING FACILITY	RTU	16	10.135.140.168
CRANE	2707_1	BLDG 2707	RTU	16	10.135.140.167

RADIO DEVICES

Site_Name	Bldg_Num	Bldg_Name	Netwk_Conn	Mesh	Radio 1 IP	Radio 2 IP
CRANE	109_1	SP WARFARE LAB	RADIO	16	10.135.140.238	N/A
CRANE	142_2	ORDNANCE TEST & EVALUATION LAB	RADIO	16	10.135.140.237	N/A
CRANE	142_3	ORDNANCE TEST & EVALUATION LAB	RADIO	16	10.135.140.236	N/A
CRANE	142_4	ORDNANCE TEST & EVALUATION	RADIO	16	10.135.140.239	N/A
CRANE	143_2	ORDNANCE TESTING FACILITY	RADIO	16	10.135.140.235	N/A
CRANE	142_1	ORDNANCE TEST & EVALUATION LAB	RADIO	16	10.135.140.230	N/A
CRANE	142_1	ORDNANCE TEST & EVALUATION LAB	RADIO	16	10.135.140.231	N/A
CRANE	143_1	ORDNANCE TESTING FACILITY	RADIO (X2)	16	10.134.140.227	Not Used
CRANE	2707_1	BLDG 2707	RADIO	16	10.135.140.226	N/A

SWITCHES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Switch IP
CRANE	142_1	ORDNANCE TEST & EVALUATION LAB	8600	16	10.135.140.142
CRANE	143_1	ORDNANCE TESTING FACILITY	8600	16	10.135.140.143
CRANE	143_3	ORDNANCE TESTING FACILITY	8600	16	10.135.140.146
CRANE	142_2	ORDNANCE TEST & EVALUATION LAB	RPT	16	10.135.140.140
CRANE	143_1	ORDNANCE TESTING FACILITY	RTU	16	10.135.140.144
CRANE	2707_1	BUILDING 2707	RPT	16	10.135.140.141
CRANE	3349_1	BUILDING 3349	RPT	16	10.135.140.145

WIRELESS INTRUSION DETECTION SENSORS

Site_Name	Bldg_Num	Bldg_Name	Mesh	WIDS	WIDS IP
CRANE	142_2	ORDNANCE TEST & EVALUATION LAB	16	WIDS	10.135.140.254
CRANE	2707_1	BUILDING 2707	16	WIDS	10.135.140.253
CRANE	3349_1	BUILDING 3349	16	WIDS	10.135.140.252

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 16 NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 24 OF 49 REV A00

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TO DWG. 29115563-012 PGS. 41-45 (AG)

TO DWG. 29115563-012 PGS. 41-45 (AH)

WIRELESS MESH BH NETWORK DEVICES

METER DEVICES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Meter IP
CRANE	69_1	TRANSFER FACILITY	8600	BH	10.1.140.76
CRANE	101_1	MED CALIBER PROJECTILE LOADING	8600	BH	10.4.140.77
CRANE	101_2	MED CALIBER PROJECTILE LOADING	8600	BH	10.4.140.78
CRANE	102_1	MEDIUM CALIBER DEMIL	8600	BH	10.4.140.79
CRANE	102_2	MEDIUM CALIBER DEMIL	8600	BH	10.4.140.80
CRANE	104_1	AMMUNITION LOADING PLANT	8600	BH	10.1.140.81
CRANE	104_2	AMMUNITION LOADING PLANT	8600	BH	10.1.140.82
CRANE	104_3	AMMUNITION LOADING PLANT	8600	BH	10.1.140.83
CRANE	104_4	AMMUNITION LOADING PLANT	8600	BH	10.1.140.84
CRANE	105_1	WASHOUT FACILITY (DEMIL)	8600	BH	10.1.140.86
CRANE	105_2	WASHOUT FACILITY (DEMIL)	8600	BH	10.1.140.87
CRANE	105_3	WASHOUT FACILITY (DEMIL)	8600	BH	10.1.140.88
CRANE	150_1	BOILER HOUSE	8600	BH	10.1.140.71
CRANE	200_1	AMMUNITION LOADING PLANT	8600	BH	10.1.140.89
CRANE	200_2	AMMUNITION LOADING PLANT	8600	BH	10.1.140.90
CRANE	200_3	AMMUNITION LOADING PLANT	8600	BH	10.1.140.91
CRANE	300_1	COMMUNICATIONS CENTER	8600	BH	10.1.140.92
CRANE	2068_1	ELECTRONICS ENG	8600	BH	10.1.140.95
CRANE	2068_2	ELECTRONICS ENG	8600	BH	10.1.140.96
CRANE	2167_1	FLARE TEST FACILITY	8600	BH	10.2.140.97
CRANE	2390_1	RDT&E SHIPPING & RECEIVING	8600	BH	10.1.140.98
CRANE	2674_1	BOILER HOUSE	8600	BH	10.1.140.99
CRANE	2805_1	TEST BUILDING	8600	BH	10.1.140.100
CRANE	2805_2	TEST BUILDING	8600	BH	10.1.140.101
CRANE	3006_1	MICROWAVE TEST RANGE	8600	BH	10.1.140.102
CRANE	3049_1	FILTER & CONTROL	8600	BH	10.1.140.103
CRANE	3059_1	LINEAR ACCELERATOR	8600	BH	10.1.140.104
CRANE	3149_1	SURVEILLANCE	8600	BH	10.1.140.105
CRANE	3284_1	ORDNANCE ENG & OPS	8600	BH	10.1.140.106
CRANE	3285_1	ORDNANCE ENVIRO TEST FACILITY	8600	BH	10.1.140.108
CRANE	3285_2	ORDNANCE ENVIRO TEST FACILITY	8600	BH	10.1.140.109
CRANE	3285_3	ORDNANCE ENVIRO TEST FACILITY	8600	BH	10.1.140.107
CRANE	3295_1	INSTRUMENTATION LAB	8600	BH	10.2.140.110
CRANE	3325_1	AMMO CONTAINERIZATION	8600	BH	10.1.140.112
CRANE	3333_1	AMMO CONTAINERIZATION	8600	BH	10.5.140.113
CRANE	69_1	TRANSFER FACILITY	RTU	BH	10.1.140.60
CRANE	101_1	MED CALIBER PROJECTILE LOADING	RTU	BH	10.4.140.61
CRANE	105_1	WASHOUT FACILITY (DEMIL)	RTU	BH	10.1.140.62
CRANE	150_1	BOILER HOUSE	RTU	BH	10.1.140.114
CRANE	150_2	BOILER HOUSE	RTU	BH	10.1.140.115
CRANE	300_1	COMMUNICATIONS CENTER	RTU	BH	10.1.140.63
CRANE	2068_1	ELECTRONICS ENG	RTU	BH	10.1.140.64
CRANE	2167_1	FLARE TEST FACILITY	RTU	BH	10.2.140.65
CRANE	2674_1	BOILER HOUSE	RTU	BH	10.1.140.66
CRANE	3149_1	SURVEILLANCE	RTU	BH	10.1.140.67
CRANE	3284_1	ORDNANCE ENG & OPS	RTU	BH	10.1.140.68
CRANE	3285_1	ORDNANCE ENVIRO TEST FACILITY	RTU	BH	10.1.140.69
CRANE	3325_1	AMMO CONTAINERIZATION	RTU	BH	10.1.140.72
CRANE	3333_1	AMMO CONTAINERIZATION	RTU	BH	10.5.140.73
CRANE	3349_1	3349_1	RTU	BH	10.135.140.224
CRANE	3461_2	3461	RTU	BH	10.1.140.75
CRANE	3461_1	3461	RTU	BH	10.1.140.74
CRANE	W_SSTN_1	HOOSIER ENERGY	RTU	BH	10.1.140.116

RADIO DEVICES

Site_Name	Bldg_Num	Bldg_Name	Netwk_Conn	Mesh	Radio 1 IP	Radio 2 IP
CRANE	69_1	TRANSFER FACILITY	RADIO	BH	10.1.140.135	N/A
CRANE	101_1	MED CALIBER PROJECTILE LOADING	RADIO	BH	10.4.140.134	N/A
CRANE	102_1	MEDIUM CALIBER DEMIL	RADIO	BH	10.4.140.133	N/A
CRANE	104_2	AMMUNITION LOADING PLANT	RADIO	BH	10.1.140.132	N/A
CRANE	104_3	AMMUNITION LOADING PLANT	RADIO	BH	10.1.140.169	N/A
CRANE	105_1	WASHOUT FACILITY (DEMIL)	RADIO	BH	10.1.140.131	N/A
CRANE	150_1	BOILER HOUSE	RADIO	BH	10.1.140.176	N/A
CRANE	200_1	AMMUNITION LOADING PLANT	RADIO	BH	10.1.140.130	N/A
CRANE	300_1	COMMUNICATIONS CENTER	RADIO	BH	10.1.140.129	N/A
CRANE	2068_1	ELECTRONICS ENG	RADIO	BH	10.1.140.127	N/A
CRANE	2068_2	ELECTRONICS ENG	RADIO	BH	10.1.140.126	N/A
CRANE	2674_1	BOILER HOUSE	RADIO	BH	10.1.140.125	N/A
CRANE	2805_1	TEST BUILDING	RADIO	BH	10.1.140.124	N/A
CRANE	3149_1	SURVEILLANCE	RADIO	BH	10.1.140.123	N/A
CRANE	3284_1	ORDNANCE ENG & OPS	RADIO	BH	10.1.140.122	N/A
CRANE	3285_1	ORDNANCE ENVIRO TEST FACILITY	RADIO	BH	10.1.140.121	N/A
CRANE	3295_1	INSTRUMENTATION LAB	RADIO	BH	10.1.140.120	N/A
CRANE	3325_1	AMMO CONTAINERIZATION	RADIO	BH	10.1.140.118	N/A
CRANE	3333_1	AMMO CONTAINERIZATION	RADIO	BH	10.5.140.117	N/A
CRANE	69_1	TRANSFER FACILITY	RADIO	BH	10.1.140.160	N/A
CRANE	101_1	MED CALIBER PROJECTILE LOADING	RADIO	BH	10.4.140.159	N/A
CRANE	102_1	MEDIUM CALIBER DEMIL	RADIO	BH	10.4.140.158	N/A
CRANE	104_3	AMMUNITION LOADING PLANT	RADIO	BH	10.1.140.177	N/A
CRANE	104_1	AMMUNITION LOADING PLANT	RADIO	BH	10.1.140.157	N/A
CRANE	105_1	WASHOUT FACILITY (DEMIL)	RADIO	BH	10.1.140.156	N/A
CRANE	122_1	122	RADIO	BH	10.3.140.163	N/A
CRANE	126_1	ILLUMINANT BLDG PYRO	RADIO	BH	10.3.140.162	N/A
CRANE	150_1	BOILER HOUSE	RADIO	BH	10.1.140.170	N/A
CRANE	150_2	BOILER HOUSE	RADIO	BH	10.1.140.171	N/A
CRANE	200_1	ADMIN SUPPORT BLDG	RADIO	BH	10.1.140.155	N/A
CRANE	300_1	COMMUNICATIONS CENTER	RADIO	BH	10.1.140.154	N/A
CRANE	2068_1	ELECTRONICS ENG	RADIO	BH	10.1.140.153	N/A
CRANE	2167_1	FLARE TEST FACILITY	RADIO (X2)	BH	10.2.140.120	10.2.140.152
CRANE	2167_1	FLARE TEST FACILITY	RADIO	BH	10.2.140.151	N/A
CRANE	2674_1	BOILER HOUSE	RADIO	BH	10.1.140.150	N/A
CRANE	2805_1	TEST BUILDING	RADIO	BH	10.1.140.172	N/A
CRANE	3149_1	SURVEILLANCE	RADIO	BH	10.1.140.149	N/A
CRANE	3197_1	3197	RADIO (X2)	BH	Not Used	Not Used
CRANE	3214_1	3214_1	RADIO	BH	10.4.140.148	N/A
CRANE	3284_1	ORDNANCE ENG & OPS	RADIO	BH	10.1.140.147	N/A
CRANE	3285_1	ORDNANCE ENVIRO TEST FACILITY	RADIO	BH	10.1.140.145	N/A
CRANE	3285_1	ORDNANCE ENVIRO TEST FACILITY	RADIO	BH	10.1.140.146	N/A
CRANE	3287_1	BATTERY EVALUATION	RADIO	BH	10.3.140.161	N/A
CRANE	3325_1	AMMO CONTAINERIZATION	RADIO	BH	10.1.140.140	N/A
CRANE	3325_1	AMMO CONTAINERIZATION	RADIO	BH	10.1.140.141	N/A
CRANE	3333_1	AMMO CONTAINERIZATION	RADIO	BH	10.5.140.138	N/A
CRANE	3333_1	AMMO CONTAINERIZATION	RADIO	BH	10.5.140.180	N/A
CRANE	3333_2	AMMO CONTAINERIZATION	RADIO	BH	10.5.140.139	N/A
CRANE	3349_1	3349_1	RADIO	BH	10.135.140.224	N/A
CRANE	3461_2	3461	RADIO	BH	10.1.140.136	N/A

SWITCHES

Site_Name	Bldg_Num	Bldg_Name	M_Type	Mesh	Switch IP
CRANE	101_2	MED CALIBER PROJECTILE LOADING	8600	BH	10.4.140.42
CRANE	102_2	MEDIUM CALIBER DEMIL	8600	BH	10.1.140.43
CRANE	104_1	AMMUNITION LOADING PLANT	8600	BH	10.1.140.44
CRANE	104_4	AMMUNITION LOADING PLANT	8600	BH	10.1.140.45
CRANE	105_2	WASHOUT FACILITY (DEMIL)	8600	BH	10.1.140.57
CRANE	105_3	WASHOUT FACILITY (DEMIL)	8600	BH	10.1.140.57
CRANE	200_2	AMMUNITION LOADING PLANT	8600	BH	10.1.140.47
CRANE	2167_1	FLARE TEST FACILITY	8600	BH	10.1.140.49
CRANE	2805_2	TEST BUILDING	8600	BH	10.1.140.50
CRANE	3059_1	LINEAR ACCELERATOR	8600	BH	10.1.140.51
CRANE	3285_2	ORDNANCE ENVIRO TEST FACILITY	8600	BH	10.1.140.52
CRANE	69_1	TRANSFER FACILITY	RTU	BH	10.1.140.28
CRANE	104_1	AMMUNITION LOADING PLANT	RPT	BH	10.1.140.29
CRANE	105_1	WASHOUT FACILITY (DEMIL)	RTU	BH	10.1.140.30
CRANE	150_1	BOILER HOUSE	RTU	BH	10.1.140.54
CRANE	300_1	COMMUNICATIONS CENTER	RPT	BH	10.1.140.46
CRANE	2068_1	ELECTRONICS ENG	RTU	BH	10.1.140.31
CRANE	2167_1	FLARE TEST FACILITY	RTU	BH	10.1.140.32
CRANE	2390_1	RDT&E SHIPPING & RECEIVING	RPT	BH	10.1.140.178
CRANE	2805_1	TEST BUILDING	RPT	BH	10.1.140.53
CRANE	3149_1	SURVEILLANCE	RTU	BH	10.1.140.33
CRANE	3197_1	3197	RPT	BH	10.1.140.17
CRANE	3284_1	ORDNANCE ENG & OPS	RTU	BH	10.1.140.34
CRANE	3285_1	ORDNANCE ENVIRO TEST FACILITY	RPT	BH	10.1.140.35
CRANE	3325_1	AMMO CONTAINERIZATION	RTU	BH	10.1.140.38
CRANE	3325_2	AMMO CONTAINERIZATION	RPT	BH	10.1.140.58
CRANE	3333_1	AMMO CONTAINERIZATION	RTU	BH	10.5.140.39
CRANE	3461_2	3461	RTU	BH	10.1.140.40
CRANE	3461_1	BUILDING 3461	RPT	BH	10.1.140.41
CRANE	W_SSTN_1	HOOSIER ENERGY	RTU	BH	10.1.140.55

WIRELESS INTRUSION DETECTION SENSORS

Site_Name	Bldg_Num	Bldg_Name	Mesh	WIDS	WIDS IP
CRANE	69_1	TRANSFER FACILITY	BH	WIDS	10.1.140.181
CRANE	104_2	AMMUNITION LOADING PLANT	BH	WIDS	10.1.140.194
CRANE	105_1	WASHOUT FACILITY (DEMIL)	BH	WIDS	10.1.140.193
CRANE	150_1	BOILER HOUSE	BH	WIDS	10.1.140.192
CRANE	200_1	ADMIN SUPPORT BLDG	BH	WIDS	10.1.140.199
CRANE	300_1	COMMUNICATIONS CENTER	BH	WIDS	10.1.140.189
CRANE	2068_1	ELECTRONICS ENG	BH	WIDS	10.1.140.191
CRANE	2390_2	RDT&E SHIPPING & RECEIVING	BH	WIDS	10.1.140.185
CRANE	2805_2	TEST BUILDING	BH	WIDS	10.1.140.190
CRANE	3149_1	SURVEILLANCE	BH	WIDS	10.1.140.188
CRANE	3214_1	3214_1	BH	WIDS	10.4.140.197
CRANE	3284_1	ORDNANCE ENG & OPS	BH	WIDS	10.1.140.187
CRANE	3285_2	ORDNANCE ENVIRO TEST FACILITY	BH	WIDS	10.1.140.186
CRANE	3325_2	AMMO CONTAINERIZATION	BH	WIDS	10.1.140.183
CRANE	3333_3	AMMO CONTAINERIZATION	BH	WIDS	10.5.140.182
CRANE	3461_1	BUILDING 3461	BH	WIDS	10.1.140.195

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH BH NETWORK DIAGRAM
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563-012	PG 25 OF 49 REV A00

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REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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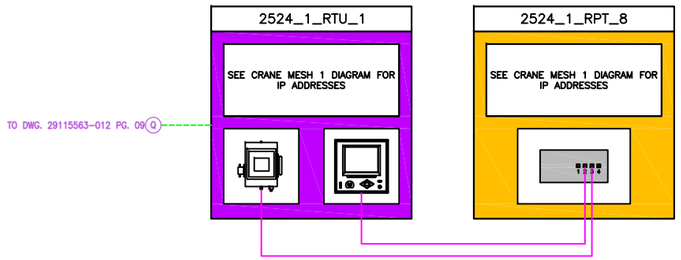

2524_1_RPT SWITCH	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
2524_1_RPT SW CU PORT 1	FACTORY WIRED
2524_1_RPT SW CU PORT 2	2524_1_RTU METER
2524_1_RPT SW CU PORT 3	2524_1_RTU RADIO
2524_1_RPT SW CU PORT 4	N/A

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 1 HARDWIRE
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 26 OF 49 REV A00

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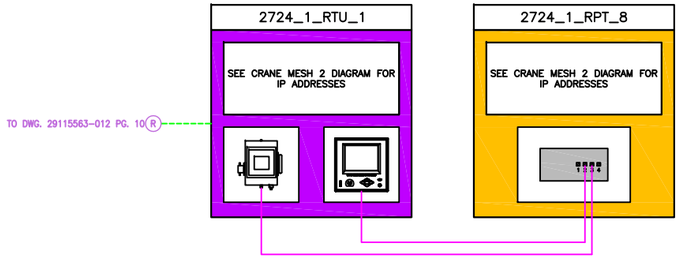

2724_1_RPT SWITCH	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
2724_1_RPT SW CU PORT 1	FACTORY WIRED
2724_1_RPT SW CU PORT 2	2724_1_RTU METER
2724_1_RPT SW CU PORT 3	2724_1_RTU RADIO
2724_1_RPT SW CU PORT 4	N/A

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 2 HARDWIRE
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 27 OF 49 REV A00

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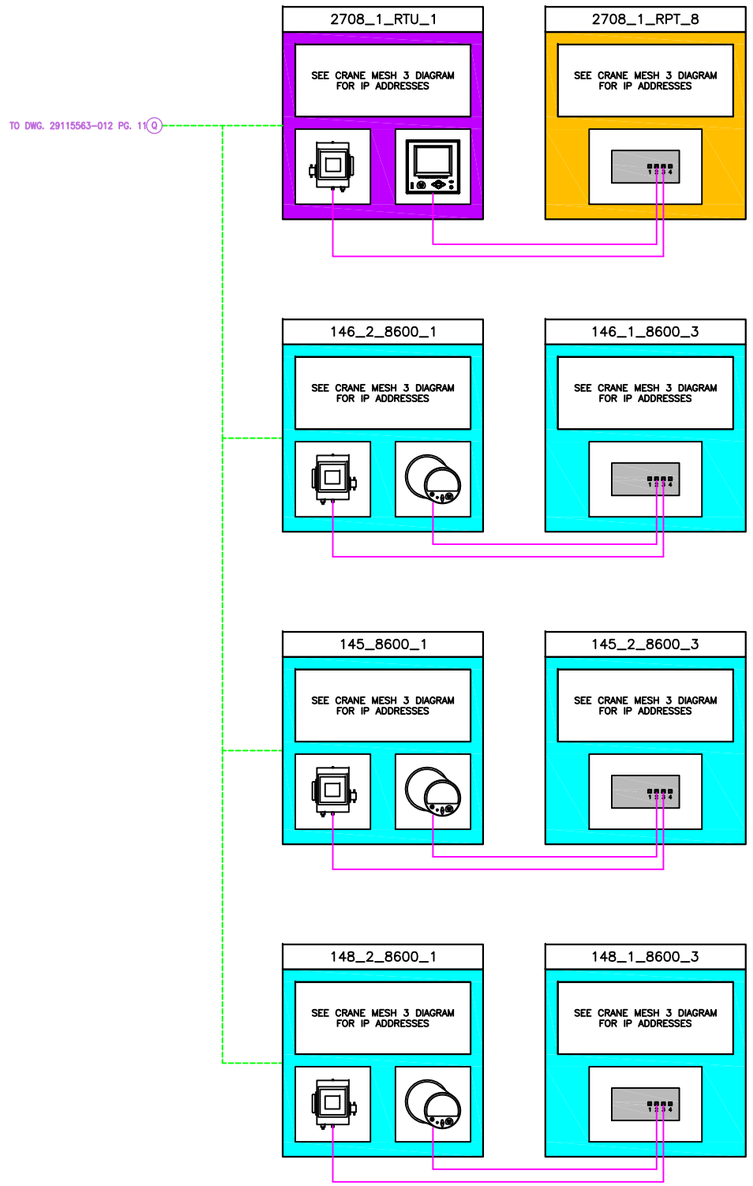

2708_1_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
2708_1_RPT SW CU PORT 1	FACTORY WIRED
2708_1_RPT SW CU PORT 2	2708_1_RTU METER
2708_1_RPT SW CU PORT 3	2708_1_RTU RADIO
2708_1_RPT SW CU PORT 4	N/A

146_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
146_1_8600 SW CU PORT 1	FACTORY WIRED
146_1_8600 SW CU PORT 2	146_2_8600 METER
146_1_8600 SW CU PORT 3	146_2_8600 RADIO
146_1_8600 SW CU PORT 4	N/A

145_2_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
145_2_8600 SW CU PORT 1	FACTORY WIRED
145_2_8600 SW CU PORT 2	145_8600 METER
145_2_8600 SW CU PORT 3	145_8600 RADIO
145_2_8600 SW CU PORT 4	N/A

148_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
148_1_8600 SW CU PORT 1	FACTORY WIRED
148_1_8600 SW CU PORT 2	148_2_8600 METER
148_1_8600 SW CU PORT 3	148_2_8600 RADIO
148_1_8600 SW CU PORT 4	N/A

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 3 HARDWIRE
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 28 OF 49 REV A00

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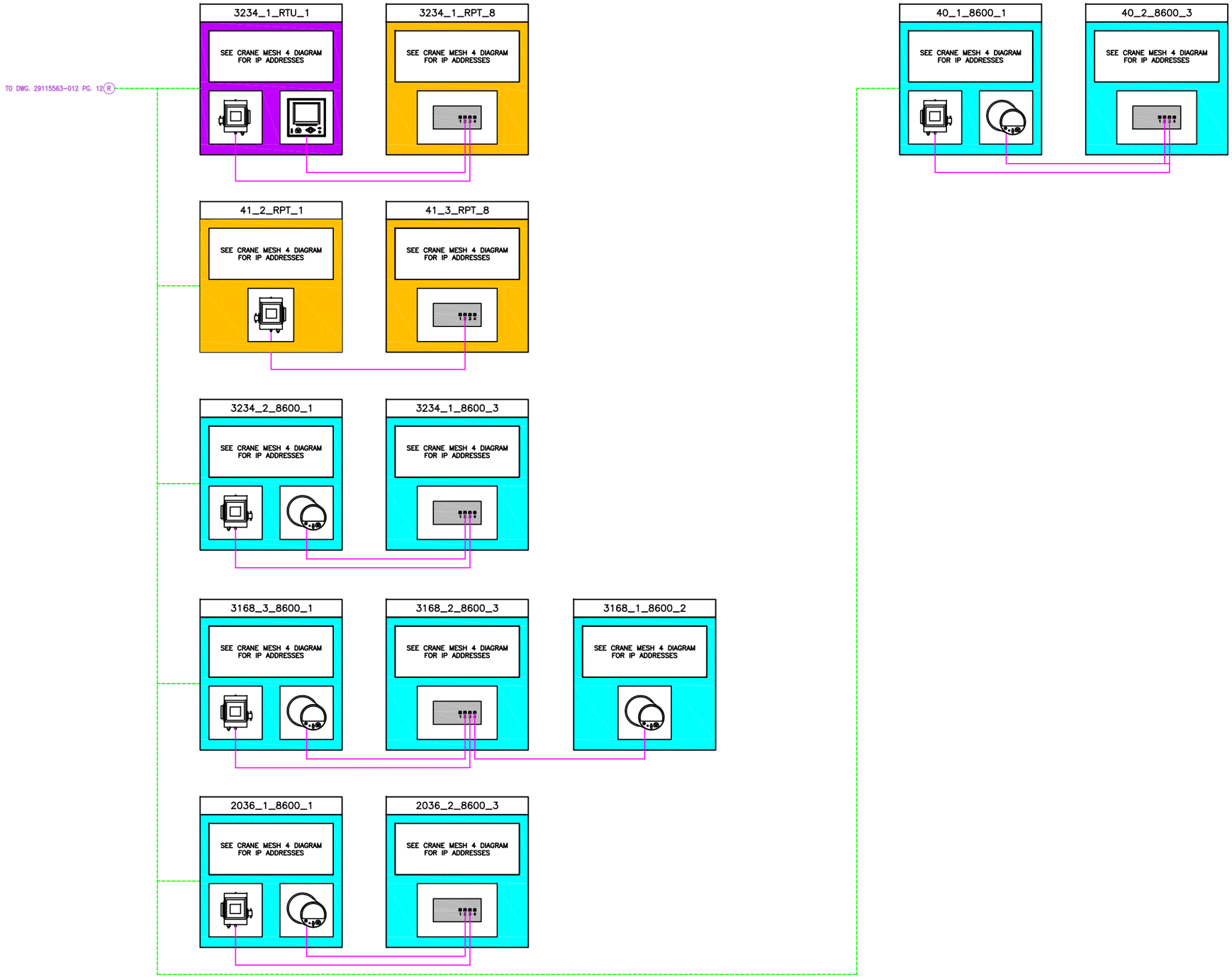

3234_1_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3234_1_RPT SW CU PORT 1	FACTORY WIRED
3234_1_RPT SW CU PORT 2	3234_1_RTU METER
3234_1_RPT SW CU PORT 3	3234_1_RTU RADIO
3234_1_RPT SW CU PORT 4	N/A

41_3_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
41_3_RPT SW CU PORT 1	FACTORY WIRED
41_3_RPT SW CU PORT 2	41_2_RPT RADIO
41_3_RPT SW CU PORT 3	N/A
41_3_RPT SW CU PORT 4	N/A

3234_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3234_1_8600 SW CU PORT 1	FACTORY WIRED
3234_1_8600 SW CU PORT 2	3234_2_8600 METER
3234_1_8600 SW CU PORT 3	3234_2_8600 RADIO
3234_1_8600 SW CU PORT 4	N/A

3168_2_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3168_2_8600 SW CU PORT 1	FACTORY WIRED
3168_2_8600 SW CU PORT 2	3168_3_8600 METER
3168_2_8600 SW CU PORT 3	3168_3_8600 RADIO
3168_2_8600 SW CU PORT 4	3168_1_8600 METER

2036_2_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
2036_2_8600 SW CU PORT 1	FACTORY WIRED
2036_2_8600 SW CU PORT 2	2036_1_8600 METER
2036_2_8600 SW CU PORT 3	2036_1_8600 RADIO
2036_2_8600 SW CU PORT 4	N/A

40_2_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
40_2_8600 SW CU PORT 1	FACTORY WIRED
40_2_8600 SW CU PORT 2	40_1_8600 METER
40_2_8600 SW CU PORT 3	40_1_8600 RADIO
40_2_8600 SW CU PORT 4	N/A

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 4 HARDWIRE
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 29 OF 49 REV A00

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REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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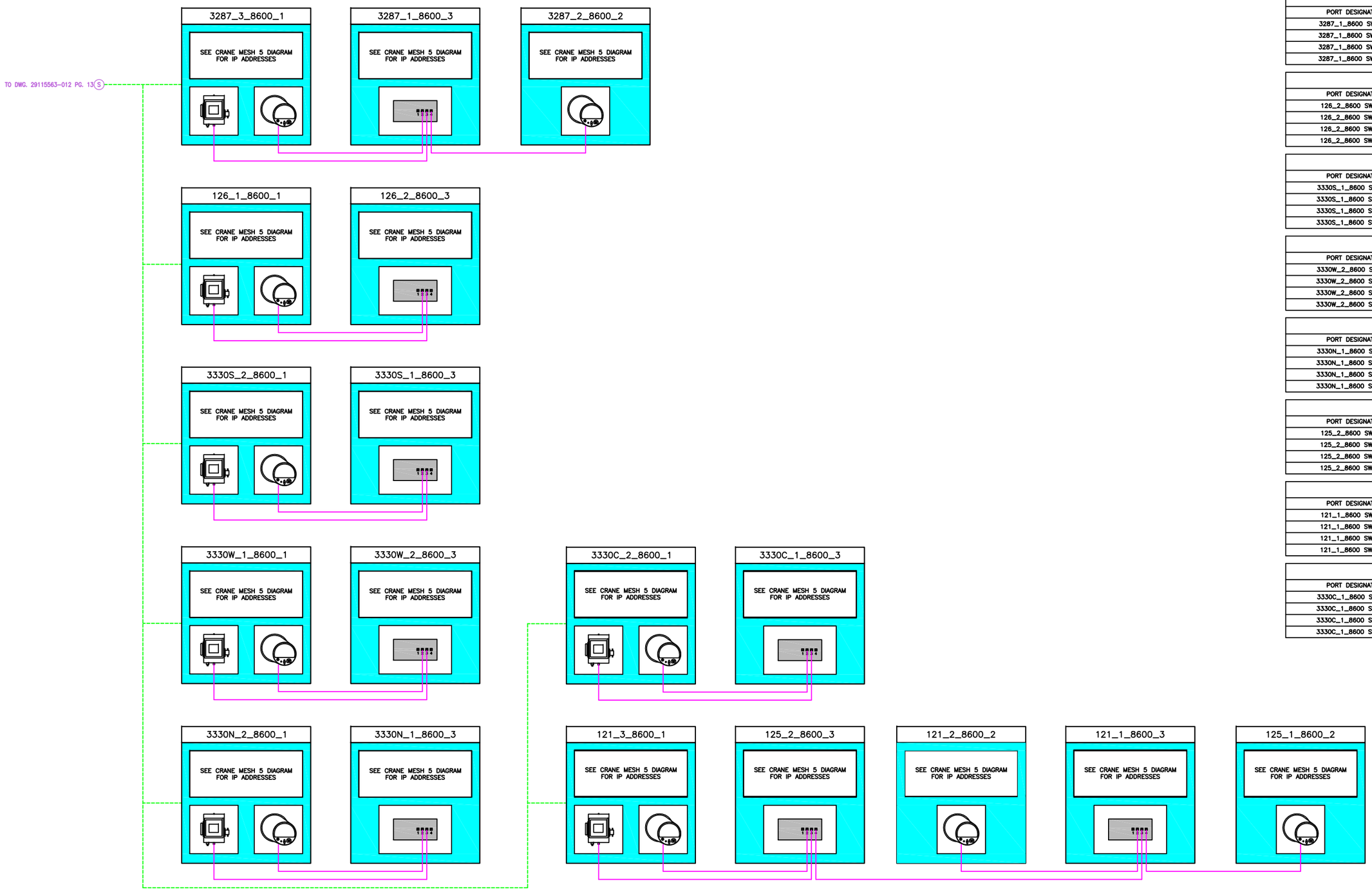

3287_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3287_1_8600 SW CU PORT 1	FACTORY WIRED
3287_1_8600 SW CU PORT 2	3287_3_8600 METER
3287_1_8600 SW CU PORT 3	3287_3_8600 RADIO
3287_1_8600 SW CU PORT 4	3287_2_8600 METER

126_2_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
126_2_8600 SW CU PORT 1	FACTORY WIRED
126_2_8600 SW CU PORT 2	126_1_8600 METER
126_2_8600 SW CU PORT 3	126_1_8600 RADIO
126_2_8600 SW CU PORT 4	N/A

3330S_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3330S_1_8600 SW CU PORT 1	FACTORY WIRED
3330S_1_8600 SW CU PORT 2	3330S_2_8600 METER
3330S_1_8600 SW CU PORT 3	3330S_2_8600 RADIO
3330S_1_8600 SW CU PORT 4	N/A

3330W_2_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3330W_2_8600 SW CU PORT 1	FACTORY WIRED
3330W_2_8600 SW CU PORT 2	3330W_1_8600 METER
3330W_2_8600 SW CU PORT 3	3330W_1_8600 RADIO
3330W_2_8600 SW CU PORT 4	N/A

3330N_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3330N_1_8600 SW CU PORT 1	FACTORY WIRED
3330N_1_8600 SW CU PORT 2	3330N_2_8600 METER
3330N_1_8600 SW CU PORT 3	3330N_2_8600 RADIO
3330N_1_8600 SW CU PORT 4	N/A

125_2_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
125_2_8600 SW CU PORT 1	FACTORY WIRED
125_2_8600 SW CU PORT 2	121_3_8600 METER
125_2_8600 SW CU PORT 3	121_3_8600 RADIO
125_2_8600 SW CU PORT 4	121_1_8600 SWITCH

121_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
121_1_8600 SW CU PORT 1	FACTORY WIRED
121_1_8600 SW CU PORT 2	121_2_8600 METER
121_1_8600 SW CU PORT 3	125_2_8600 SWITCH
121_1_8600 SW CU PORT 4	125_1_8600 METER

3330C_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3330C_1_8600 SW CU PORT 1	FACTORY WIRED
3330C_1_8600 SW CU PORT 2	3330C_2_8600 METER
3330C_1_8600 SW CU PORT 3	3330C_2_8600 RADIO
3330C_1_8600 SW CU PORT 4	N/A

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 5 HARDWIRE
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 30 OF 49 REV A00

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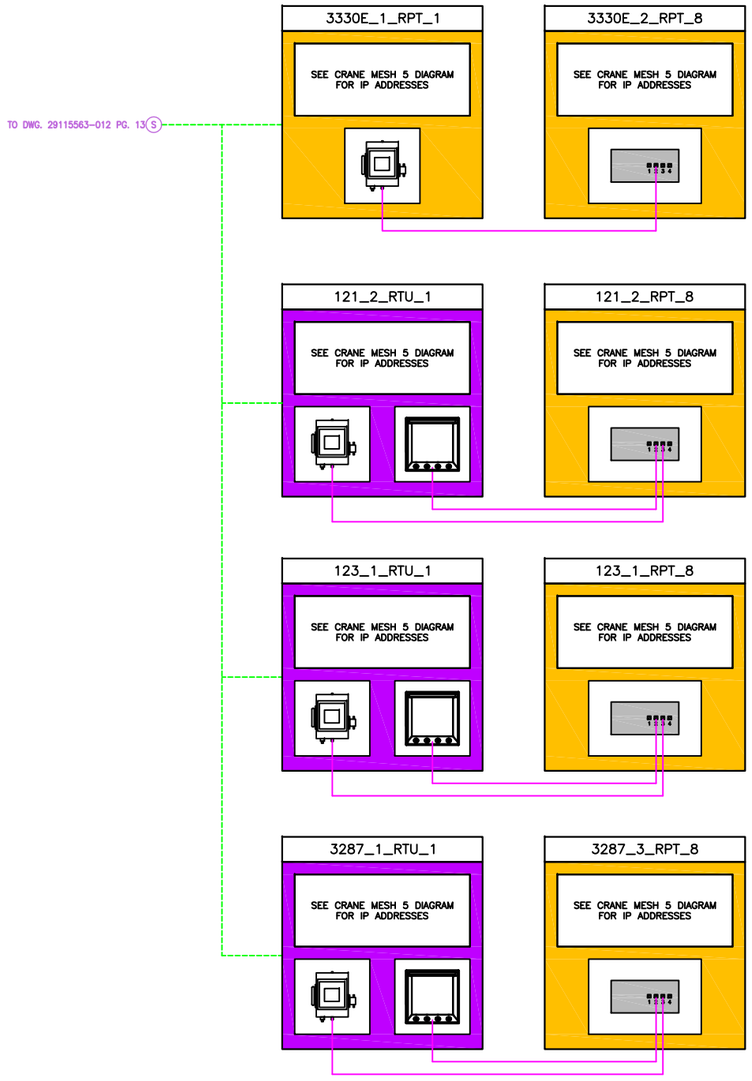

3330E_2_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3330E_2_RPT SW CU PORT 1	FACTORY WIRED
3330E_2_RPT SW CU PORT 2	3330E_1_RPT RADIO
3330E_2_RPT SW CU PORT 3	N/A
3330E_2_RPT SW CU PORT 4	N/A

121_2_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
121_2_RPT SW CU PORT 1	FACTORY WIRED
121_2_RPT SW CU PORT 2	121_2_RTU METER
121_2_RPT SW CU PORT 3	121_2_RTU RADIO
121_2_RPT SW CU PORT 4	N/A

123_1_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
123_1_RPT SW CU PORT 1	FACTORY WIRED
123_1_RPT SW CU PORT 2	123_1_RTU METER
123_1_RPT SW CU PORT 3	123_1_RTU RADIO
123_1_RPT SW CU PORT 4	N/A

3287_3_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3287_3_RPT SW CU PORT 1	FACTORY WIRED
3287_3_RPT SW CU PORT 2	3287_1_RTU METER
3287_3_RPT SW CU PORT 3	3287_1_RTU RADIO
3287_3_RPT SW CU PORT 4	N/A

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 5 HARDWIRE (CONT.)
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 31 OF 49 REV A00

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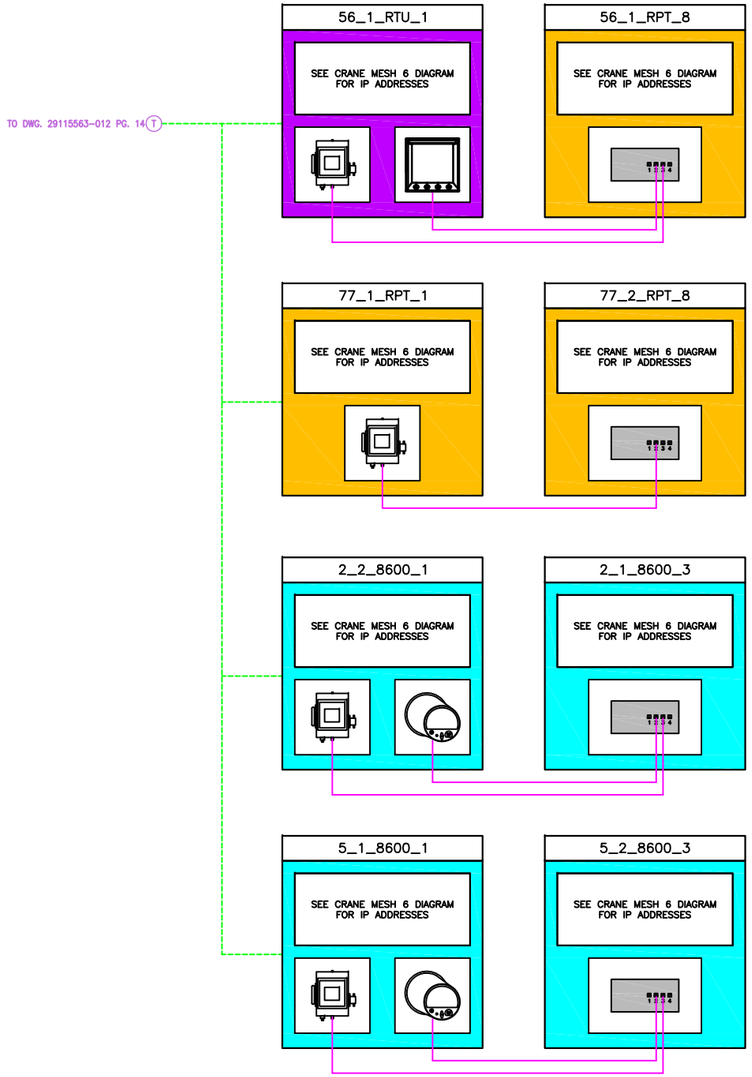

56_1_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
56_1_RPT SW CU PORT 1	FACTORY WIRED
56_1_RPT SW CU PORT 2	56_1_RTU METER
56_1_RPT SW CU PORT 3	56_1_RTU RADIO
56_1_RPT SW CU PORT 4	N/A

77_2_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
77_2_RPT SW CU PORT 1	FACTORY WIRED
77_2_RPT SW CU PORT 2	77_1_RPT RADIO
77_2_RPT SW CU PORT 3	N/A
77_2_RPT SW CU PORT 4	N/A

2_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
2_1_8600 SW CU PORT 1	FACTORY WIRED
2_1_8600 SW CU PORT 2	2_2_8600 METER
2_1_8600 SW CU PORT 3	2_2_8600 RADIO
2_1_8600 SW CU PORT 4	N/A

5_2_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
5_2_8600 SW CU PORT 1	FACTORY WIRED
5_2_8600 SW CU PORT 2	5_1_8600 METER
5_2_8600 SW CU PORT 3	5_1_8600 RADIO
5_2_8600 SW CU PORT 4	N/A

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 6 HARDWIRE
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 32 OF 49 REV A00

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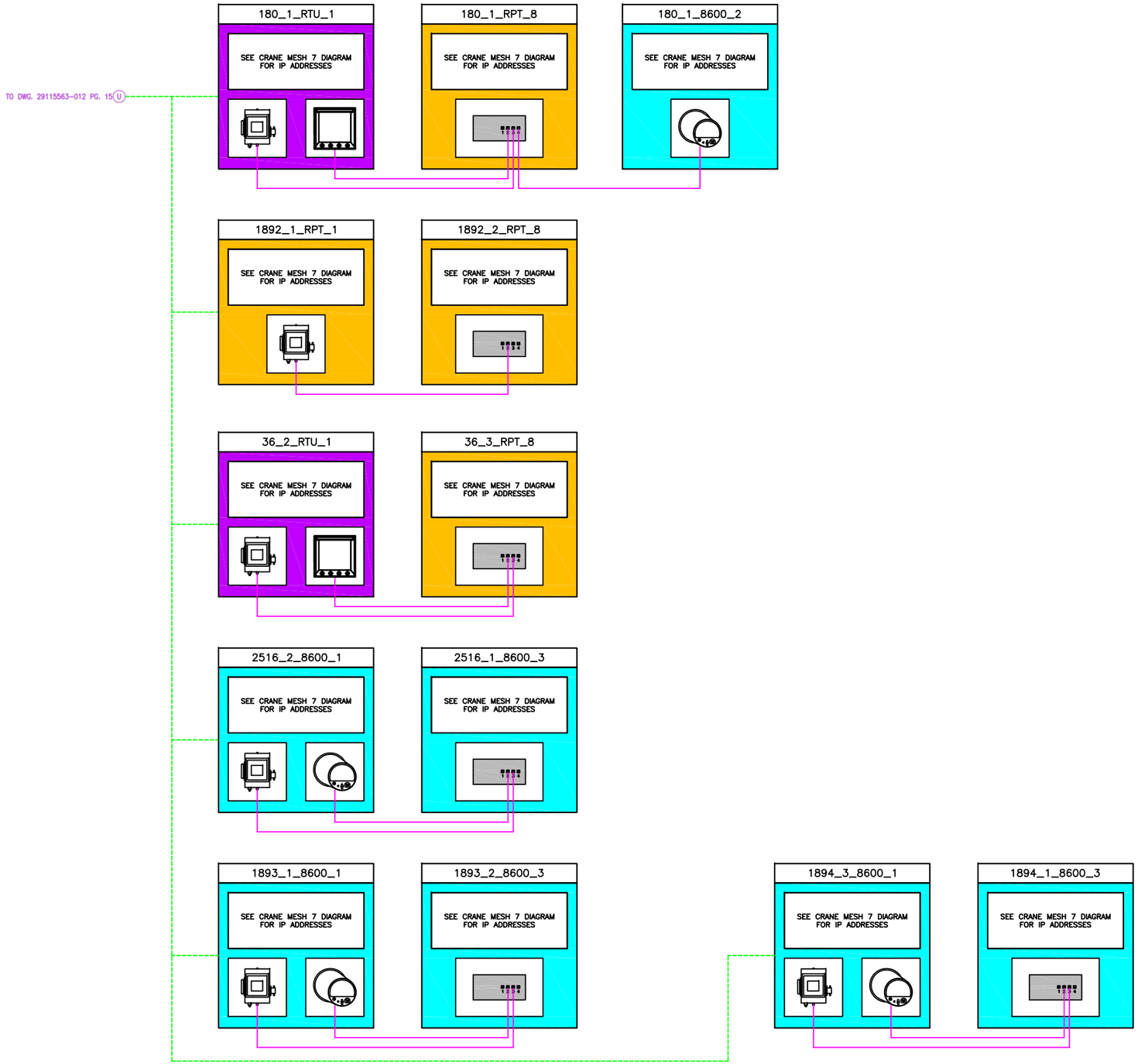

180_1_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
180_1_RPT SW CU PORT 1	FACTORY WIRED
180_1_RPT SW CU PORT 2	180_1_RTU METER
180_1_RPT SW CU PORT 3	180_1_RTU RADIO
180_1_RPT SW CU PORT 4	180_1_8600 METER

1892_2_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
1892_2_RPT SW CU PORT 1	FACTORY WIRED
1892_2_RPT SW CU PORT 2	1892_1_RPT RADIO
1892_2_RPT SW CU PORT 3	N/A
1892_2_RPT SW CU PORT 4	N/A

2516_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
2516_1_8600 SW CU PORT 1	FACTORY WIRED
2516_1_8600 SW CU PORT 2	2516_2_8600 METER
2516_1_8600 SW CU PORT 3	2516_2_8600 RADIO
2516_1_8600 SW CU PORT 4	N/A

1893_2_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
1893_2_8600 SW CU PORT 1	FACTORY WIRED
1893_2_8600 SW CU PORT 2	1893_1_8600 METER
1893_2_8600 SW CU PORT 3	1893_1_8600 RADIO
1893_2_8600 SW CU PORT 4	N/A

1894_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
1894_1_8600 SW CU PORT 1	FACTORY WIRED
1894_1_8600 SW CU PORT 2	1894_3_8600 METER
1894_1_8600 SW CU PORT 3	1894_3_8600 RADIO
1894_1_8600 SW CU PORT 4	N/A

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 7 HARDWIRE
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 33 OF 49 REV A00

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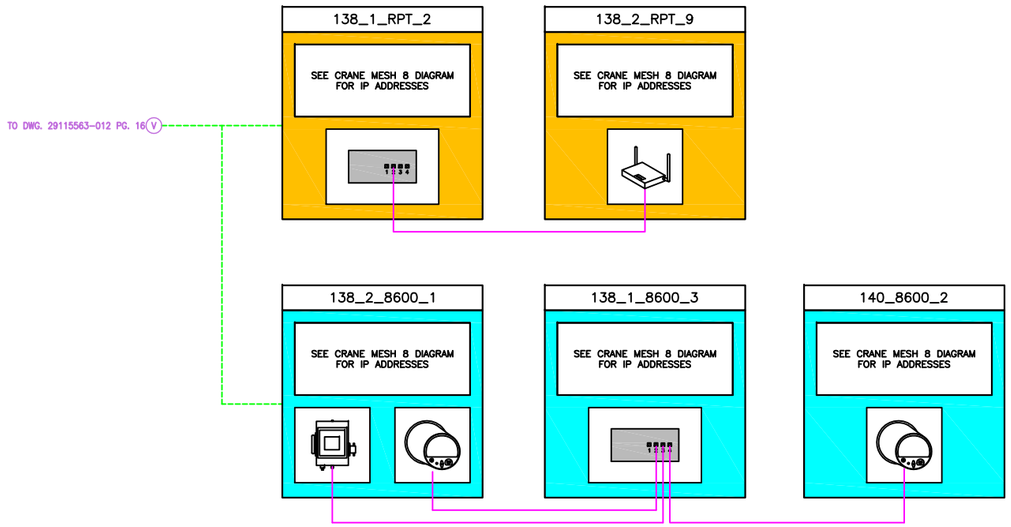

138_1_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
138_1_RPT SW CU PORT 1	FACTORY WIRED
138_1_RPT SW CU PORT 2	138_2_RPT WIDS
138_1_RPT SW CU PORT 3	N/A
138_1_RPT SW CU PORT 4	N/A

138_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
138_1_8600 SW CU PORT 1	FACTORY WIRED
138_1_8600 SW CU PORT 2	138_2_8600 METER
138_1_8600 SW CU PORT 3	138_2_8600 RADIO
138_1_8600 SW CU PORT 4	140_8600 METER

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 8 HARDWIRE
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 34 OF 49 REV A00

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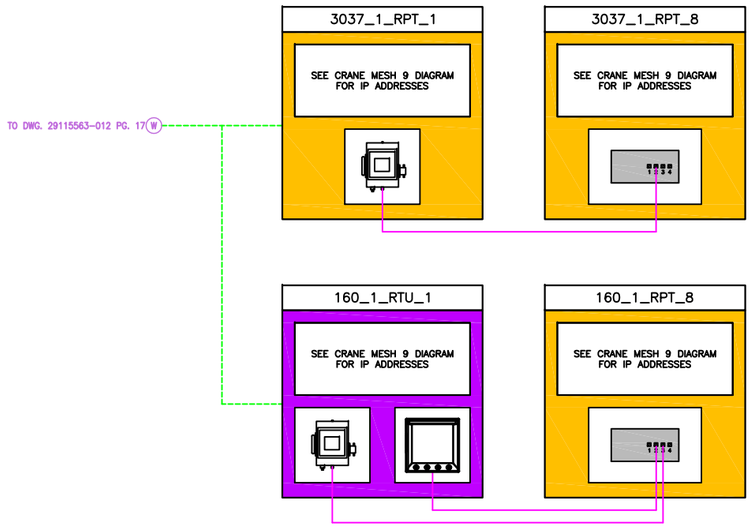

3037_1_RPT SWITCH	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
3037_1_RPT SW CU PORT 1	FACTORY WIRED
3037_1_RPT SW CU PORT 2	3037_1_RPT RADIO
3037_1_RPT SW CU PORT 3	N/A
3037_1_RPT SW CU PORT 4	N/A

160_1_RPT SWITCH	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
160_1_RPT SW CU PORT 1	FACTORY WIRED
160_1_RPT SW CU PORT 2	160_1_RTU METER
160_1_RPT SW CU PORT 3	160_1_RTU RADIO
160_1_RPT SW CU PORT 4	N/A

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 9 HARDWIRE
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 35 OF 49 REV A00

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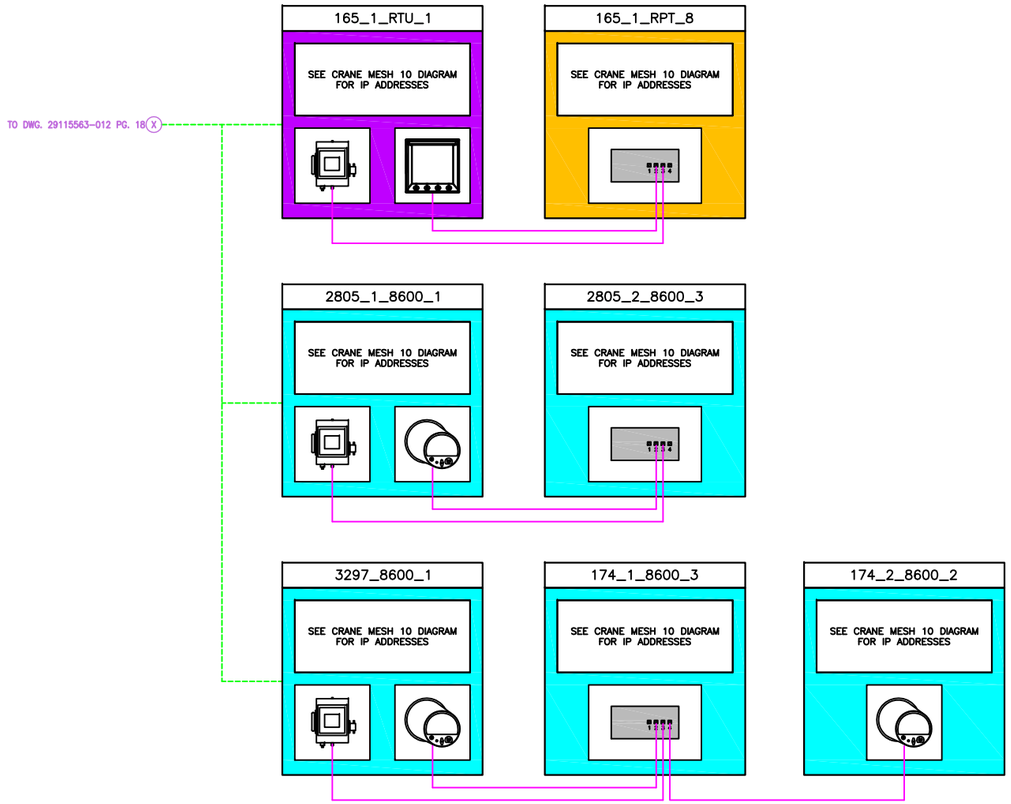

165_1_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
165_1_RPT SW CU PORT 1	FACTORY WIRED
165_1_RPT SW CU PORT 2	165_1_RTU METER
165_1_RPT SW CU PORT 3	165_1_RTU RADIO
165_1_RPT SW CU PORT 4	N/A

2805_2_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
2805_2_8600 SW CU PORT 1	FACTORY WIRED
2805_2_8600 SW CU PORT 2	2805_1_8600 METER
2805_2_8600 SW CU PORT 3	2805_1_8600 RADIO
2805_2_8600 SW CU PORT 4	N/A

174_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
174_1_8600 SW CU PORT 1	FACTORY WIRED
174_1_8600 SW CU PORT 2	3297_8600 METER
174_1_8600 SW CU PORT 3	3297_8600 RADIO
174_1_8600 SW CU PORT 4	174_2_8600 METER

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 10 HARDWIRE
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 36 OF 49 REV A00

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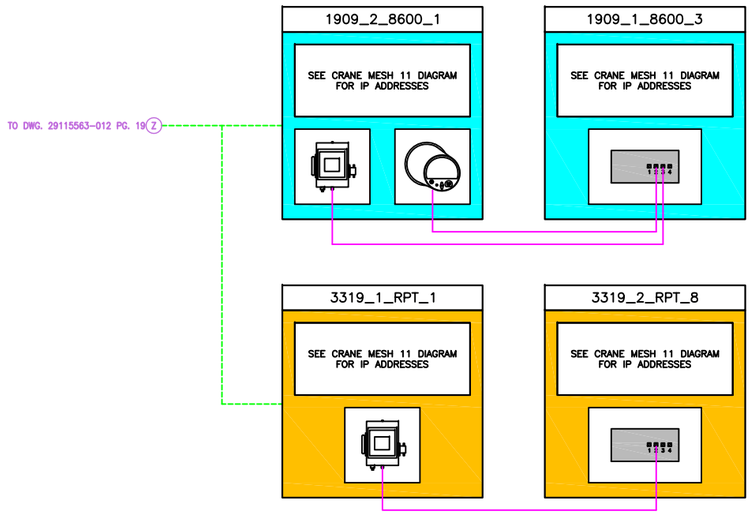

1909_1_8600 SWITCH	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
1909_1_8600 SW CU PORT 1	FACTORY WIRED
1909_1_8600 SW CU PORT 2	1909_2_8600 METER
1909_1_8600 SW CU PORT 3	1909_2_8600 RADIO
1909_1_8600 SW CU PORT 4	N/A

3319_2_RPT SWITCH	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
3319_2_RPT SW CU PORT 1	FACTORY WIRED
3319_2_RPT SW CU PORT 2	3319_1_RPT RADIO
3319_2_RPT SW CU PORT 3	N/A
3319_2_RPT SW CU PORT 4	N/A

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 11 HARDWIRE
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 37 OF 49 REV A00

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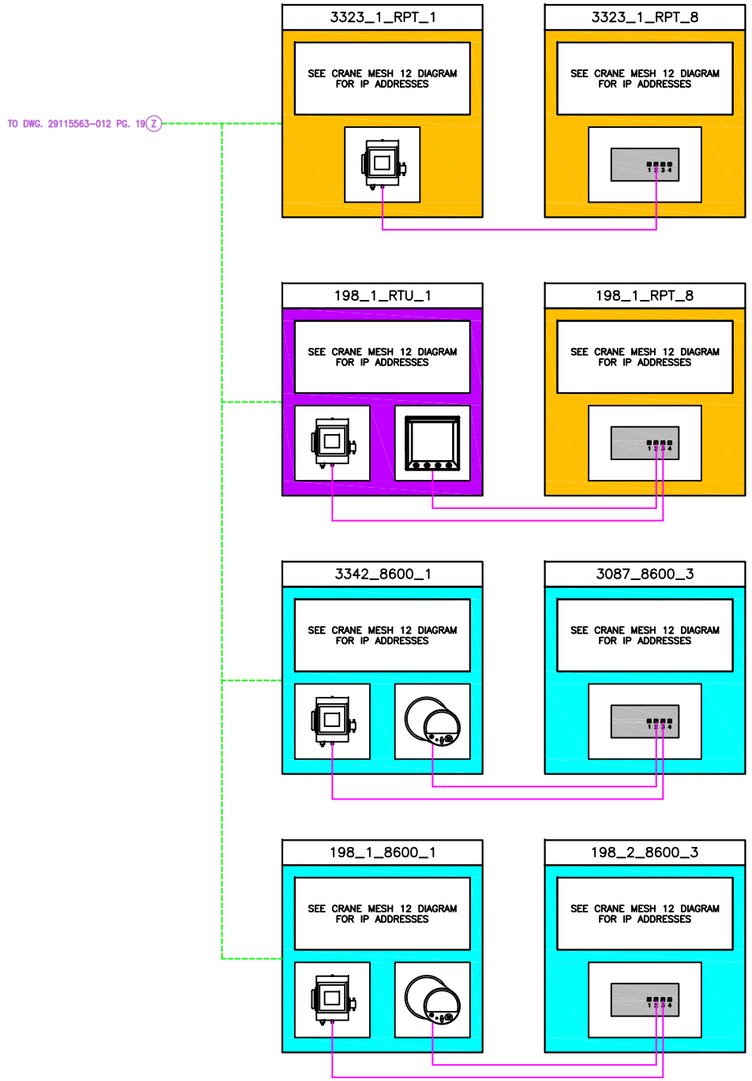

3323_1_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3323_1_RPT SW CU PORT 1	FACTORY WIRED
3323_1_RPT SW CU PORT 2	3323_1_RPT RADIO
3323_1_RPT SW CU PORT 3	N/A
3323_1_RPT SW CU PORT 4	N/A

198_1_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
198_1_RPT SW CU PORT 1	FACTORY WIRED
198_1_RPT SW CU PORT 2	198_1_RTU METER
198_1_RPT SW CU PORT 3	198_1_RTU RADIO
198_1_RPT SW CU PORT 4	N/A

3087_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3087_8600 SW CU PORT 1	FACTORY WIRED
3087_8600 SW CU PORT 2	3342_8600 METER
3087_8600 SW CU PORT 3	3342_8600 RADIO
3087_8600 SW CU PORT 4	N/A

198_2_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
198_2_8600 SW CU PORT 1	FACTORY WIRED
198_2_8600 SW CU PORT 2	198_1_8600 METER
198_2_8600 SW CU PORT 3	198_1_8600 RADIO
198_2_8600 SW CU PORT 4	N/A

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 12 HARDWIRE
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 38 OF 49 REV A00

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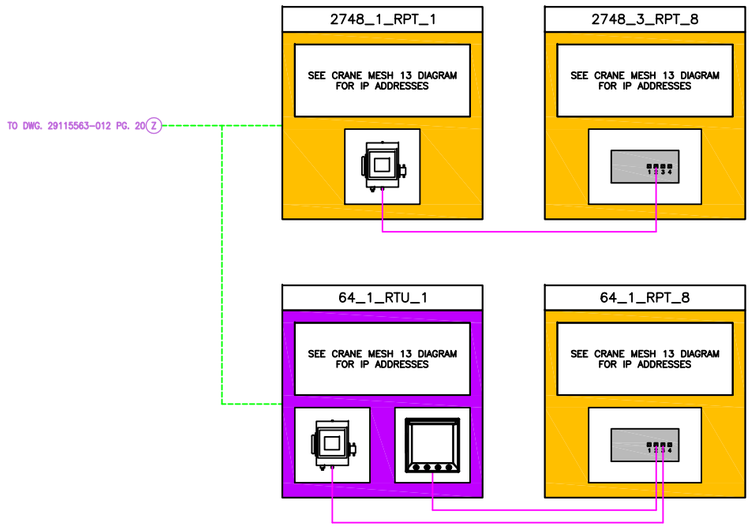

2748_3_RPT SWITCH	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
2748_3_RPT SW CU PORT 1	FACTORY WIRED
2748_3_RPT SW CU PORT 2	2748_1_RPT RADIO
2748_3_RPT SW CU PORT 3	N/A
2748_3_RPT SW CU PORT 4	N/A

64_1_RPT SWITCH	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
64_1_RPT SW CU PORT 1	FACTORY WIRED
64_1_RPT SW CU PORT 2	64_1_RTU METER
64_1_RPT SW CU PORT 3	64_1_RTU RADIO
64_1_RPT SW CU PORT 4	N/A

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 13 HARDWIRE
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 39 OF 49 REV A00

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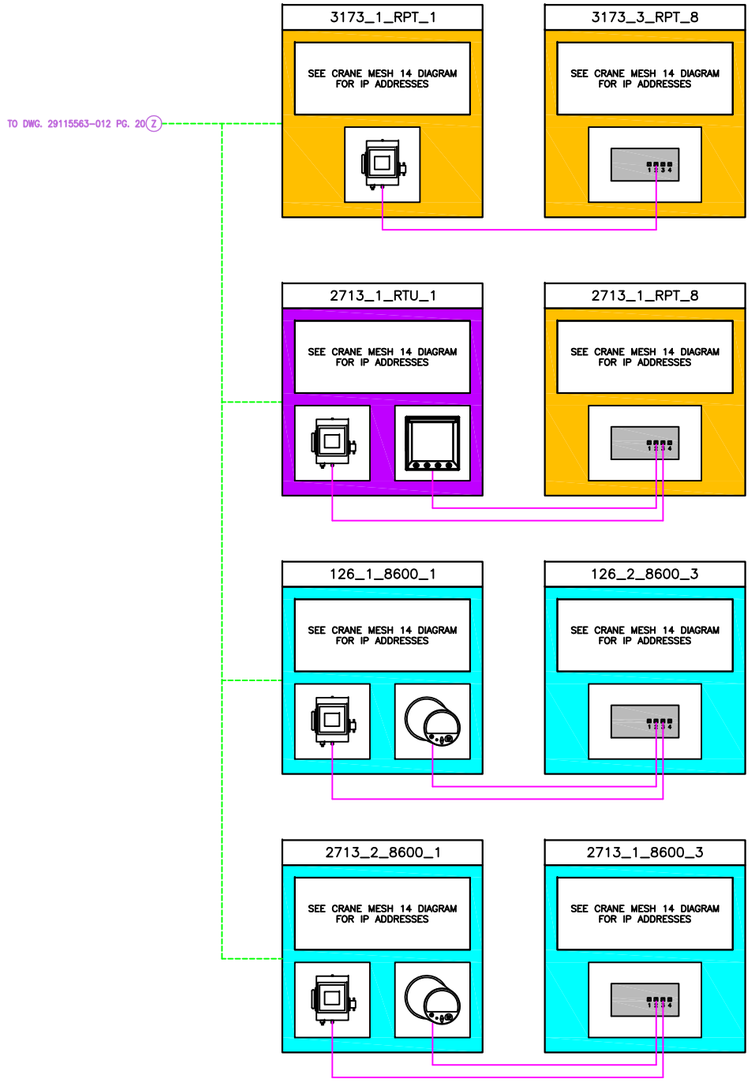

3173_3_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3173_3_RPT SW CU PORT 1	FACTORY WIRED
3173_3_RPT SW CU PORT 2	3173_1_RPT RADIO
3173_3_RPT SW CU PORT 3	N/A
3173_3_RPT SW CU PORT 4	N/A

2713_1_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
2713_1_RPT SW CU PORT 1	FACTORY WIRED
2713_1_RPT SW CU PORT 2	2713_1_RTU METER
2713_1_RPT SW CU PORT 3	2713_1_RTU RADIO
2713_1_RPT SW CU PORT 4	N/A

126_2_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
126_2_8600 SW CU PORT 1	FACTORY WIRED
126_2_8600 SW CU PORT 2	126_1_8600 METER
126_2_8600 SW CU PORT 3	126_1_8600 RADIO
126_2_8600 SW CU PORT 4	N/A

2713_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
2713_1_8600 SW CU PORT 1	FACTORY WIRED
2713_1_8600 SW CU PORT 2	2713_2_8600 METER
2713_1_8600 SW CU PORT 3	2713_2_8600 RADIO
2713_1_8600 SW CU PORT 4	N/A

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 14 HARDWIRE
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 40 OF 49 REV A00

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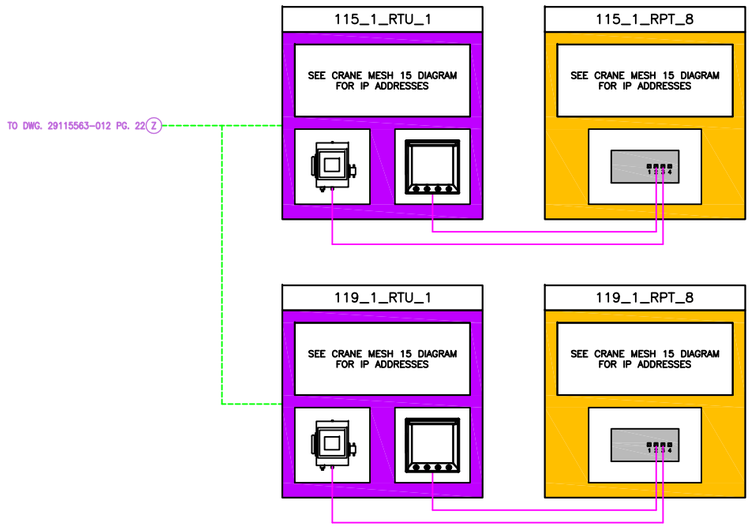

115_1_RPT SWITCH	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
115_1_RPT SW CU PORT 1	FACTORY WIRED
115_1_RPT SW CU PORT 2	115_1_RTU METER
115_1_RPT SW CU PORT 3	115_1_RTU RADIO
115_1_RPT SW CU PORT 4	N/A

119_1_RPT SWITCH	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
119_1_RPT SW CU PORT 1	FACTORY WIRED
119_1_RPT SW CU PORT 2	119_1_RTU METER
119_1_RPT SW CU PORT 3	119_1_RTU RADIO
119_1_RPT SW CU PORT 4	N/A

DATA FLOW
CAT 6 CABLE (330' MAX)
EXISTING T1 LINE
EXISTING SINGLEMODE FIBER
NEW SINGLEMODE FIBER
EXISTING MULTIMODE FIBER
NEW MULTIMODE FIBER
EXISTING TWISTED PAIR
NEW TWISTED PAIR
WIRELESS SIGNAL
SQUARE D ELECTRIC METER ENCLOSURE
SQUARE D SWITCH/ REPEATER ENCLOSURE
SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 15 HARDWIRE
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 41 OF 49 REV A00

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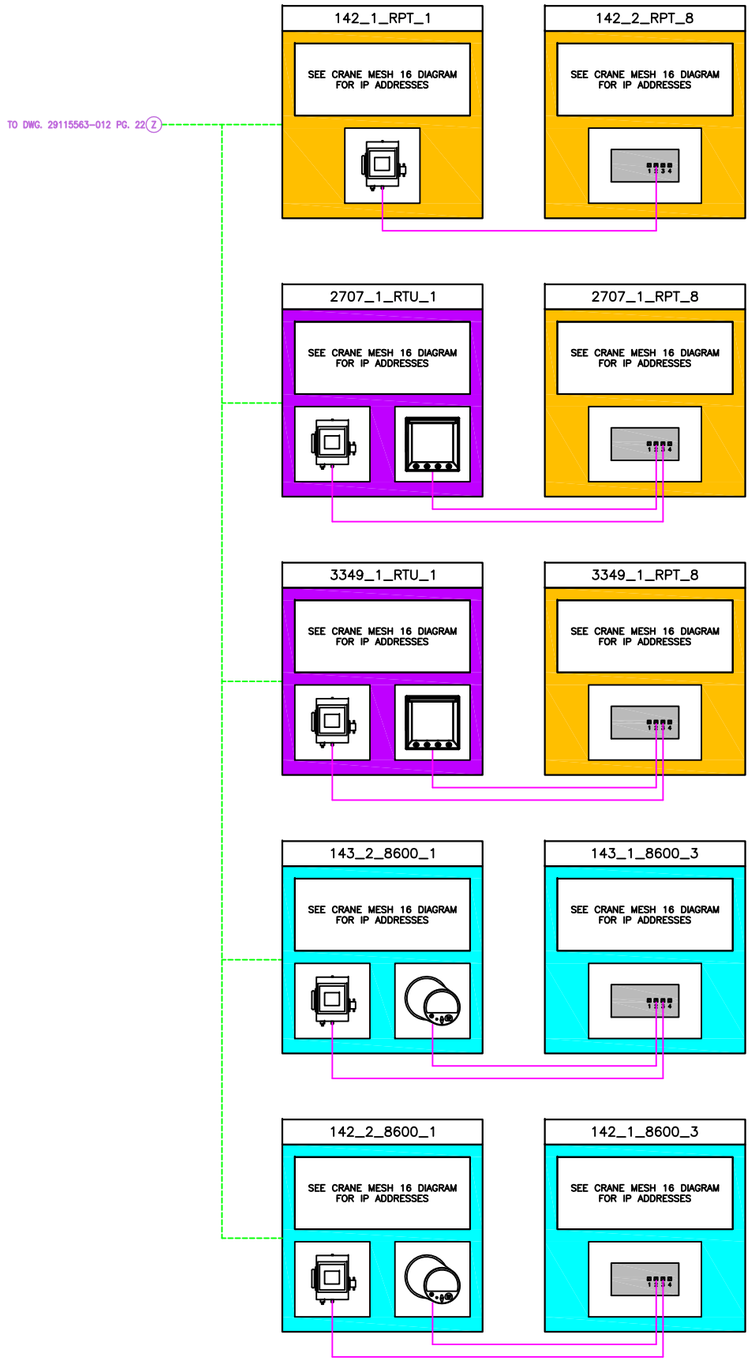

142_2_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
142_2_RPT SW CU PORT 1	FACTORY WIRED
142_2_RPT SW CU PORT 2	142_1_RPT RADIO
142_2_RPT SW CU PORT 3	N/A
142_2_RPT SW CU PORT 4	N/A

2707_1_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
2707_1_RPT SW CU PORT 1	FACTORY WIRED
2707_1_RPT SW CU PORT 2	2707_1_RTU METER
2707_1_RPT SW CU PORT 3	2707_1_RTU RADIO
2707_1_RPT SW CU PORT 4	N/A

3349_1_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3349_1_RPT SW CU PORT 1	FACTORY WIRED
3349_1_RPT SW CU PORT 2	3349_1_RTU METER
3349_1_RPT SW CU PORT 3	3349_1_RTU RADIO
3349_1_RPT SW CU PORT 4	N/A

143_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
143_1_8600 SW CU PORT 1	FACTORY WIRED
143_1_8600 SW CU PORT 2	143_2_8600 METER
143_1_8600 SW CU PORT 3	143_2_8600 RADIO
143_1_8600 SW CU PORT 4	N/A

142_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
142_1_8600 SW CU PORT 1	FACTORY WIRED
142_1_8600 SW CU PORT 2	142_2_8600 METER
142_1_8600 SW CU PORT 3	142_2_8600 RADIO
142_1_8600 SW CU PORT 4	N/A

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH 16 HARDWIRE
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 42 OF 49 REV A00

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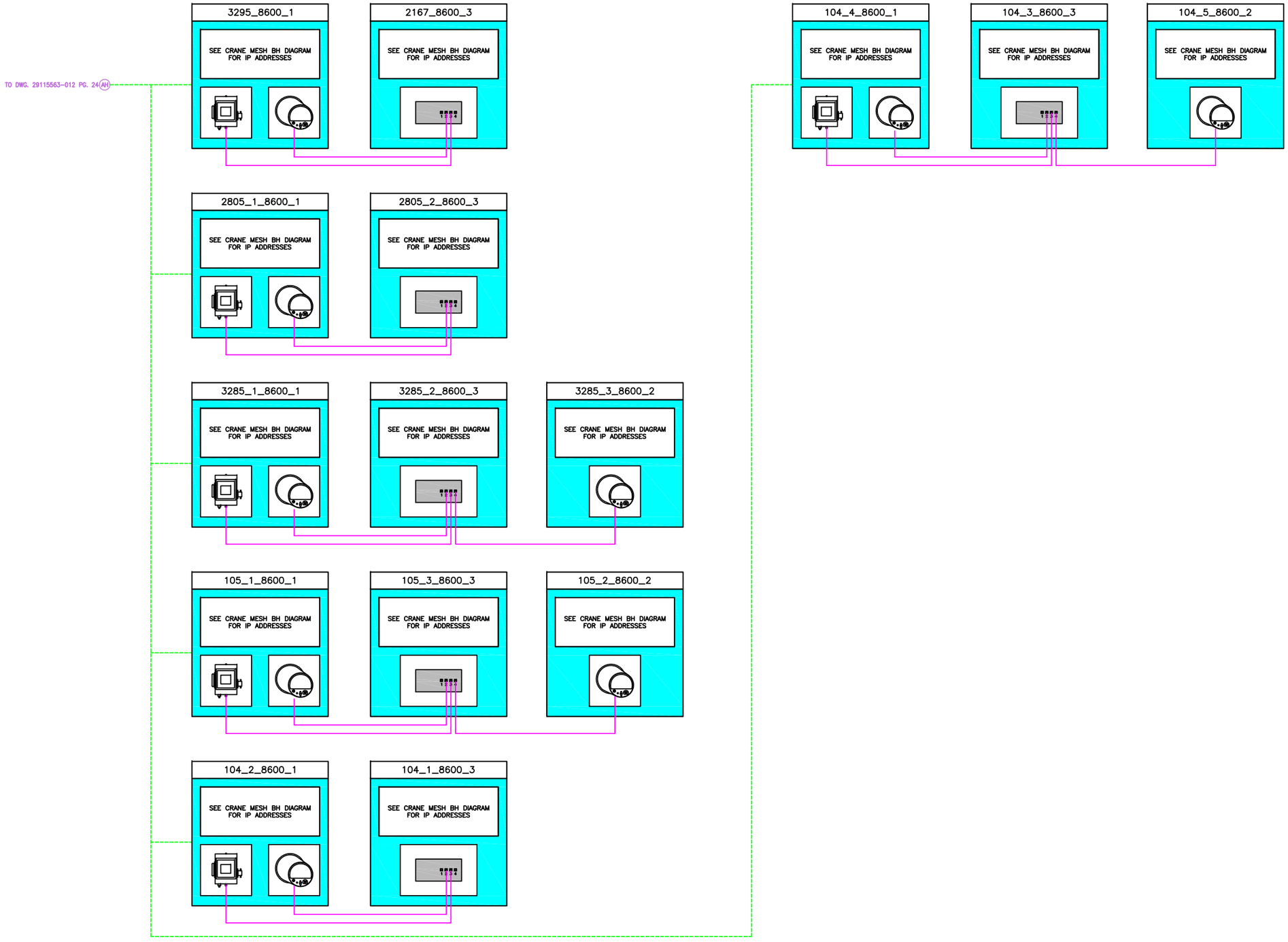

2167_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
2167_8600 SW CU PORT 1	FACTORY WIRED
2167_8600 SW CU PORT 2	3295_8600 METER
2167_8600 SW CU PORT 3	3295_8600 RADIO
2167_8600 SW CU PORT 4	N/A

2805_2_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
2805_2_8600 SW CU PORT 1	FACTORY WIRED
2805_2_8600 SW CU PORT 2	2805_1_8600 METER
2805_2_8600 SW CU PORT 3	2805_1_8600 RADIO
2805_2_8600 SW CU PORT 4	N/A

3285_2_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3285_2_8600 SW CU PORT 1	FACTORY WIRED
3285_2_8600 SW CU PORT 2	3285_1_8600 METER
3285_2_8600 SW CU PORT 3	3285_1_8600 RADIO
3285_2_8600 SW CU PORT 4	3285_3_8600 METER

105_3_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
105_3_8600 SW CU PORT 1	FACTORY WIRED
105_3_8600 SW CU PORT 2	105_1_8600 METER
105_3_8600 SW CU PORT 3	105_1_8600 RADIO
105_3_8600 SW CU PORT 4	105_2_8600 METER

104_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
104_1_8600 SW CU PORT 1	FACTORY WIRED
104_1_8600 SW CU PORT 2	104_2_8600 METER
104_1_8600 SW CU PORT 3	104_2_8600 RADIO
104_1_8600 SW CU PORT 4	N/A

104_3_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
104_3_8600 SW CU PORT 1	FACTORY WIRED
104_3_8600 SW CU PORT 2	104_4_8600 METER
104_3_8600 SW CU PORT 3	104_4_8600 RADIO
104_3_8600 SW CU PORT 4	104_5_8600 METER

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH BH HARDWIRE
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 43 OF 49 REV A00

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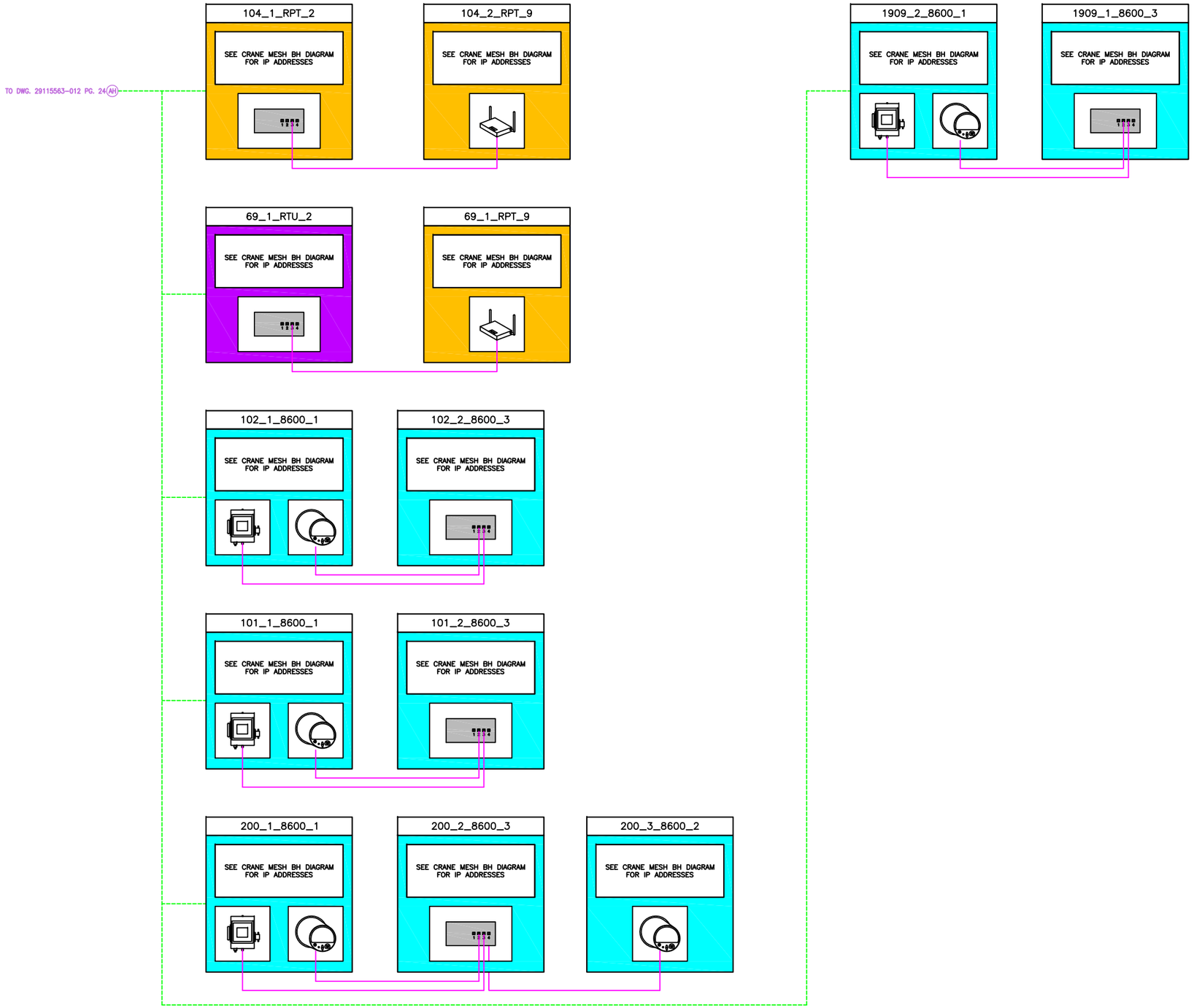

104_1_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
104_1_RPT SW CU PORT 1	FACTORY WIRED
104_1_RPT SW CU PORT 2	N/A
104_1_RPT SW CU PORT 3	104_2_RPT WIDS
104_1_RPT SW CU PORT 4	N/A

69_1_RTU SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
69_1_RTU SW CU PORT 1	FACTORY WIRED
69_1_RTU SW CU PORT 2	FACTORY WIRED
69_1_RTU SW CU PORT 3	69_1_RPT WIDS
69_1_RTU SW CU PORT 4	N/A

102_2_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
102_2_8600 SW CU PORT 1	FACTORY WIRED
102_2_8600 SW CU PORT 2	102_1_8600 METER
102_2_8600 SW CU PORT 3	102_1_8600 RADIO
102_2_8600 SW CU PORT 4	N/A

101_2_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
101_2_8600 SW CU PORT 1	FACTORY WIRED
101_2_8600 SW CU PORT 2	101_1_8600 METER
101_2_8600 SW CU PORT 3	101_1_8600 RADIO
101_2_8600 SW CU PORT 4	N/A

200_2_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
200_2_8600 SW CU PORT 1	FACTORY WIRED
200_2_8600 SW CU PORT 2	200_1_8600 METER
200_2_8600 SW CU PORT 3	200_1_8600 RADIO
200_2_8600 SW CU PORT 4	200_3_8600 METER

1909_1_8600 SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
1909_1_8600 SW CU PORT 1	FACTORY WIRED
1909_1_8600 SW CU PORT 2	1909_2_8600 METER
1909_1_8600 SW CU PORT 3	1909_2_8600 RADIO
1909_1_8600 SW CU PORT 4	N/A

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH BH HARDWIRE (CONT.)
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 44 OF 49 REV A00

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105_1_RTU SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
105_1_RTU SW CU PORT 1	FACTORY WIRED
105_1_RTU SW CU PORT 2	FACTORY WIRED
105_1_RTU SW CU PORT 3	105_1_RPT WIDS
105_1_RTU SW CU PORT 4	N/A

150_1_RTU SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
150_1_RTU SW CU PORT 1	FACTORY WIRED
150_1_RTU SW CU PORT 2	FACTORY WIRED
150_1_RTU SW CU PORT 3	150_1_RPT WIDS
150_1_RTU SW CU PORT 4	N/A

300_1_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
300_1_RPT SW CU PORT 1	FACTORY WIRED
300_1_RPT SW CU PORT 2	300_1_RTU METER
300_1_RPT SW CU PORT 3	300_1_RTU RADIO
300_1_RPT SW CU PORT 4	N/A

2068_1_RTU SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
2068_1_RTU SW CU PORT 1	FACTORY WIRED
2068_1_RTU SW CU PORT 2	FACTORY WIRED
2068_1_RTU SW CU PORT 3	2068_1_RPT WIDS
2068_1_RTU SW CU PORT 4	N/A

2390_1_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
2390_1_RPT SW CU PORT 1	FACTORY WIRED
2390_1_RPT SW CU PORT 2	N/A
2390_1_RPT SW CU PORT 3	2390_2_RPT WIDS
2390_1_RPT SW CU PORT 4	N/A

2805_1_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
2805_1_RPT SW CU PORT 1	FACTORY WIRED
2805_1_RPT SW CU PORT 2	N/A
2805_1_RPT SW CU PORT 3	2805_2_RPT WIDS
2805_1_RPT SW CU PORT 4	N/A

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH BH HARDWIRE (CONT. 2)
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 45 OF 49 REV A00

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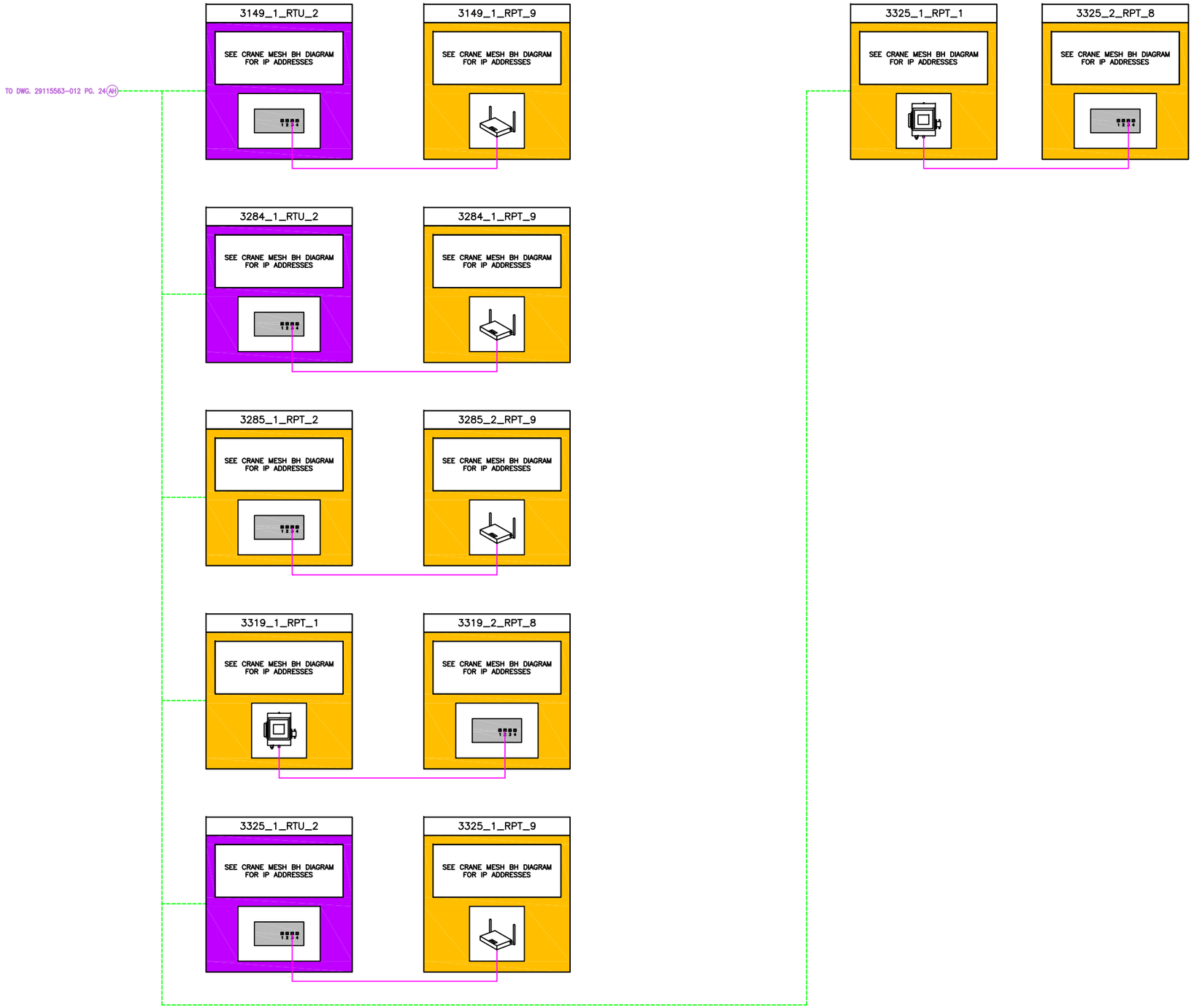

3149_1_RTU SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3149_1_RTU SW CU PORT 1	FACTORY WIRED
3149_1_RTU SW CU PORT 2	FACTORY WIRED
3149_1_RTU SW CU PORT 3	3149_1_RPT WIDS
3149_1_RTU SW CU PORT 4	N/A

3284_1_RTU SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3284_1_RTU SW CU PORT 1	FACTORY WIRED
3284_1_RTU SW CU PORT 2	FACTORY WIRED
3284_1_RTU SW CU PORT 3	3284_1_RPT WIDS
3284_1_RTU SW CU PORT 4	N/A

3285_1_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3285_1_RPT SW CU PORT 1	FACTORY WIRED
3285_1_RPT SW CU PORT 2	N/A
3285_1_RPT SW CU PORT 3	3285_2_RPT WIDS
3285_1_RPT SW CU PORT 4	N/A

3319_2_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3319_2_RPT SW CU PORT 1	FACTORY WIRED
3319_2_RPT SW CU PORT 2	3319_1_RPT RADIO
3319_2_RPT SW CU PORT 3	N/A
3319_2_RPT SW CU PORT 4	N/A

3325_1_RTU SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3325_1_RTU SW CU PORT 1	FACTORY WIRED
3325_1_RTU SW CU PORT 2	FACTORY WIRED
3325_1_RTU SW CU PORT 3	3125_1_RPT WIDS
3325_1_RTU SW CU PORT 4	N/A

3325_2_RPT SWITCH

PORT DESIGNATION/LABEL	DESTINATION/LABEL
3325_2_RPT SW CU PORT 1	FACTORY WIRED
3325_2_RPT SW CU PORT 2	N/A
3325_2_RPT SW CU PORT 3	3325_1_RPT RADIO
3325_2_RPT SW CU PORT 4	N/A

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH BH HARDWIRE (CONT. 3)
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 46 OF 49 REV A00

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REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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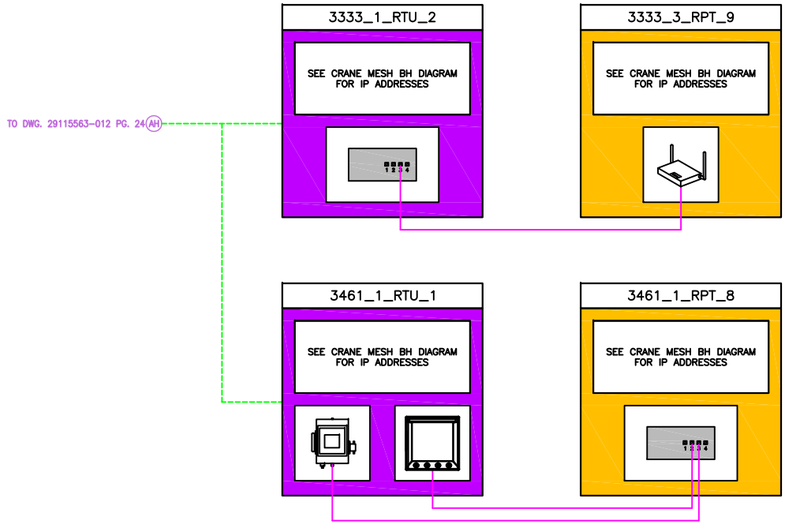

3333_1_RTU SWITCH	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
3333_1_RTU SW CU PORT 1	FACTORY WIRED
3333_1_RTU SW CU PORT 2	FACTORY WIRED
3333_1_RTU SW CU PORT 3	3333_3_RPT WIDS
3333_1_RTU SW CU PORT 4	N/A

3461_1_RPT SWITCH	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
3461_1_RPT SW CU PORT 1	FACTORY WIRED
3461_1_RPT SW CU PORT 2	3461_1_RTU METER
3461_1_RPT SW CU PORT 3	3461_1_RTU RADIO
3461_1_RPT SW CU PORT 4	N/A

- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE MESH BH HARDWIRE (CONT. 4)
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 47 OF 49 REV A00

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REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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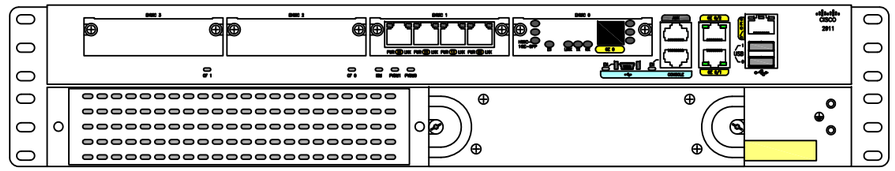
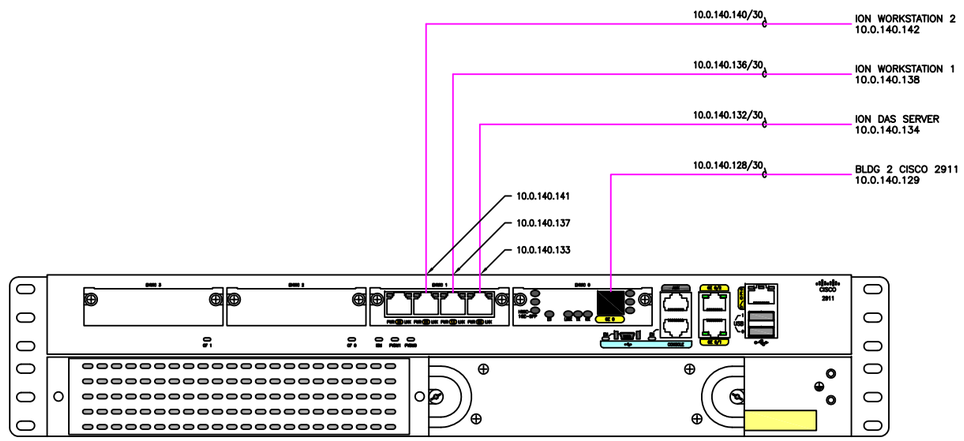


2811 CISCO SWITCH AT SITE NAME BLDG #56	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
2911 CISCO SWITCH GE0/0	N/A
2911 CISCO SWITCH GE0/1	N/A
2911 CISCO SWITCH GE0/2	N/A
2911 CISCO SWITCH FA1/0/1	ION SERVER
2911 CISCO SWITCH FA1/0/2	WORKSTATION 1
2911 CISCO SWITCH FA1/0/3	N/A
2811 CISCO SWITCH FA1/0/4	N/A
2911 CISCO SWITCH FIBER PORT	BLDG 2 CISCO 2911 FIBER PORT



- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE POP ROUTER DIAGRAM 1
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 48 OF 49 REV A00

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REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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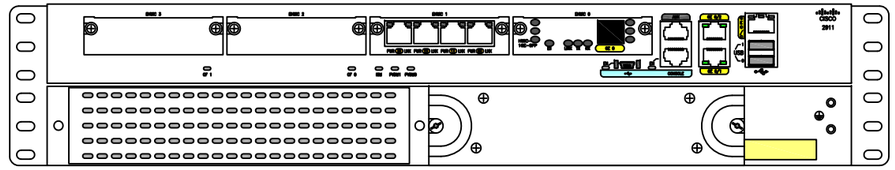
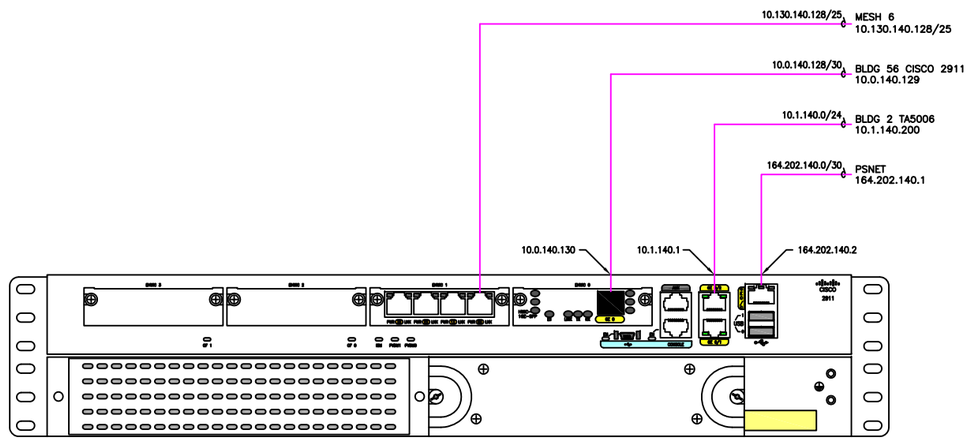


2811 CISCO SWITCH AT SITE NAME BLDG #2	
PORT DESIGNATION/LABEL	DESTINATION/LABEL
2911 CISCO SWITCH GE0/0	PSNET
2911 CISCO SWITCH GE0/1	BLDG 2 TA5006
2911 CISCO SWITCH GE0/2	N/A
2911 CISCO SWITCH FA1/0/1	MESH 6
2911 CISCO SWITCH FA1/0/2	N/A
2911 CISCO SWITCH FA1/0/3	N/A
2811 CISCO SWITCH FA1/0/4	N/A
2911 CISCO SWITCH FIBER PORT	BLDG 56 CISCO 2911 FIBER PORT



- DATA FLOW
- CAT 6 CABLE (330' MAX)
- EXISTING T1 LINE
- EXISTING SINGLEMODE FIBER
- NEW SINGLEMODE FIBER
- EXISTING MULTIMODE FIBER
- NEW MULTIMODE FIBER
- EXISTING TWISTED PAIR
- NEW TWISTED PAIR
- WIRELESS SIGNAL
- SQUARE D ELECTRIC METER ENCLOSURE
- SQUARE D SWITCH/ REPEATER ENCLOSURE
- SQUARE D MIU ENCLOSURE

CHECKED BY:	NATHAN PUBLOW	JOB NAME:	NSA CRANE	EQUIPMENT DESIGNATION:	NETWORK DIAGRAM
CHECKED DATE:	MARCH 22, 2013	JOB LOCATION:	CRANE, IN	EQUIPMENT TYPE:	–
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWN BY:	BRANT DETTINGER	DRAWING TYPE:	NSA CRANE POP ROUTER DIAGRAM 2
		ENGR:	SHENOUDA SHEHATA		Schneider Electric
		DATE:	MARCH 21, 2013		
		DRAWING STATUS:	AS BUILT	DWG# 29115563–012	PG 49 OF 49 REV A00

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SUMMARY OF CHANGES

(End of Summary of Changes)