BOSSIER CITY RR NE WWTP EXPANSION & REHABILITATION

BOSSIER CITY PROJECT 10-DQ-06, 10-BI-04 & 10-DQ-07

SUBMITTAL FOR

<u>Communication Cabling, Switches and Accessories (Security</u> <u>Camera System)-Records Storage Building</u>

D-16710-002-A	5/29/15	Tim Stewart
Submittal Number	Date	Max Foote Construction
determined and ver materials, dimensions, approved this subm	ified all field measu catalog numbers an ittal and checked an	ittal, I hereby represent that I have prements, field construction criteria, ad similar data and I have reviewed and nd coordinated each item with other s and all contract requirements.

Red River & NE WWTP Expansion & Rehab Project Bossier City, Louisiana

City Project # 10-DQ-06 & 10-BI-04 MCG# 1002.111.10

Specification Section 16710 - Communication Cabling, Switches and Accessories

Security Camera System Submittal

Customer:

Max Foote Construction Company, Inc. Mandeville, LA Subcontract No. 260-17000

Vendor:

Revere Control Systems 2240 Rocky Ridge Road Birmingham, Alabama 35216 Submittal No. N0575-S-15r0-MIS

Date:

May 26, 2015

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C. United Automation Record Storage Building Submittal

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N0575_RR-NETWORK N0575_RR-SPB-PLC-060

Red River WWTP Expansion and Rehabilitation Project NE WWTP Upgrade and Rehabilitation Project Bossier City, LA

Records Storage Building Submittal

Notes & Exceptions Specification Section 16721 – Fire Alarm System

- 1. Whenever possible, we have used the same manufacturer and model numbers used previously on projects for this site.
- 2. The existing Red River network drawings have been updated for this submittal. Items 62, 142-146 have been added to the BOM for this submittal.

CLOSET CONNECTOR HOUSING

GENERAL

•			
1	Specification Section	:	16710
2	Component Code	:	N/A
3	Tag No.	:	N/A
CLOSE	T CONNECTOR HOUSING		
4	Description	:	Closet Connector Housing (CCH), one rack unit, holds two CCH connector panels
5	Number of Ports	:	Up to 24
6	Fiber Count		Up to 48
7	Mounting	:	Rack 19-in, Rack 23-in, Cabinet-mount
MANU	FACTURER & NO.		
8	Manufacturer	:	Corning
9	Housing Model No.	:	CCH-01U

Closet Connector Housing (CCH)

one rack unit, holds two CCH connector panels

CORNING

Closet connector housings (CCHs) provide interconnect or cross-connect capabilities between outside plant, riser or distribution cables and opto-electronics. Like other LANscape solutions hardware, the housings accept CCH connector panels. In addition, the housings accept CCH cassettes and CCH modules.

From fiber and cable routing and strain relief, to port labeling and termination, these housings reduce the risk of error that can disrupt networks.

The units are designed for rack mounting in 19-in (48 cm) racks or optional 23-in (58 cm) equipment racks (1.75-in EIA hole spacing). They are available in rack space options of 1U (two panels, cassettes or modules), 2U (four panels, cassettes or modules), 3U (six panels, cassettes or modules). The 1U, 2U and 3U options feature a slide-out tray and see-through, removable top covers. The CCH-04U features a clear door, removable front and rear enclosures and a platinum-colored interior for maximum visibility and access.

Every CCH housing is shipped complete with strain relief brackets, routing clips and guides, and mounting brackets for proper installation. Documentation labels are provided and components can be added as needed to construct a fiber distribution frame for any application. All housings include a removable tinted polycarbonate front door. All size housings have field-installable lock kits available for both front and rear doors.

All CCH housings can also be upgraded for pigtail splicing to full fiber capacity and easy, modular fiber management through the use of CCH Splice Cassettes (CCH-CS), or for easy, modular fiber management when using field-installable connectors through the use of CCH Slack Cassettes (CCH-CF).

Features and Benefits

Interconnect and cross-connect capability Ideal for field connectorization

Removable, translucent top covers (1U, 2U, 3U), removable rear cover (4U) Visibility and ease of access for installation, testing, and troubleshooting

Internal and external strain-relief options Flexibility for installation and moves, adds, and changes (MACs)

Accepts panels, modules, and cassettes Variety of field-termination options





Closet Connector Housing (CCH)

one rack unit, holds two CCH connector panels

CORNING

Features and Benefits

Adaptable to use as a modular splice housing Splices are stored and protected in same footprint

Standards

Approvals and Listings	Meets ANSI/TIA/EIA-568A and 606
RoHS	Free of hazardous sub- stances according to RoHS 2002/95/EG
UL-Listed	United States and Canadian safety standards

Specifications

General Specifications		
Application	Enterprise Networks, Data Center, Carrier Networks	
Mounting Type	Rack 19-in, Rack 23-in, Cabinet-mount	
Product Type	Fiber Optic Hardware	
Environment	Indoor	
Mounting Technology	Flush mount, Protruding, Recessed	
Access Type	Front and rear access slidable	
Lockable	Yes	

Design - Hardware		
Housing Type	ССН	
Housing Color	Black, transparent top cover	
Height Unit	1U	
Locking Availability	Front or rear	
Number of Panels per Housing	Up to 2	
Pigtail Length	2.25 m	
Panel or Module Type	ССН	
Splice Tray Options	CCH Splice Cassette (CCH-CS)	
Housing Material	Powder-coated metal and Polycarbonate Tray	
Number of Ports	Up to 24	
Fiber Count	Up to 48	





Closet Connector Housing (CCH)

one rack unit, holds two CCH connector panels

CORNING

Design - Hardware	
Cable entry type	External and Internal strain-relief bracket
Number of splice cassettes	Up to 2
Number of Adapters	Up to 24
Number of pigtails	Up to 48

Mechanical Characteristics	
Dimensions (HxWxD)	4.4 cm x 48.3 cm x 43 cm (1.75 in x 19 in x 17 in)
Weight	3.9 kg

Ordering Information

Part Number	CCH-01U
Product Description	Closet Connector Housing (CCH), one rack unit, holds two CCH connector panels

Shipping Information

Units per Delivery	1/1
Shipping Weight	4.5 kg (10 lb)
Dimensions (HxWxD)	54.61 cm x 57.15 cm x 19.05 cm (21.5 in x 22.5 in x 7.5 in)



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CONNECTOR PANEL

GENERAL

1	Specification Section	:	16710
2	Component Code	:	N/A
3	Tag No.	:	N/A
CONNE	CTOR PANEL		
4	Description	:	Closet Connector Housing (CCH) Panel, ST® Compatible adapters, Simplex, 12 F, 62.5 µm multimode (OM1)
5	Fiber Count	:	12
6	Number of Adapters per Panel	:	12
MANUF	ACTURER & NO.		
7	Manufacturer	:	Corning
8	Model No.	:	CCH-CP12-15T

Closet Connector Housing (CCH) Panel, ST[®] Compatible Adapters

Simplex, 12 F, 62.5 µm multimode (OM1)

CORNING

Corning closet connector housing panels (CCH-CP) are offered in a variety of fiber counts for use with LANscape[®] solutions hardware products for a "one-size -fits-all" approach. Used with factory-installed or fieldinstallable connectors, these panels provide interconnect or cross-connect capability in a housing at main crossconnects, intermediate cross-connects, telecommunication rooms or work areas. Available with a variety of industry-standard adapter types, the CCH-CP provides an efficient way to securely mate two connectors and offers multimode and single-mode applications.

Features and Benefits

Universal design approach One-size-fits-all LANscape[®] Solutions housings

Broadest range of fiber count and adapter types Solutions for all needs

Colored icon labeling Easy connector identification







Closet Connector Housing (CCH) Panel, ST[®] Compatible Adapters

Simplex, 12 F, 62.5 µm multimode (OM1)

Specifications

General Specifications	
Application	Enterprise Networks, Data Center LAN/SAN
Product Type	Panels & Modules
Fiber Category	62.5 μm MM (OM1)

Design - Hardware	
Fiber Count	12
Number of Adapters per Panel	12

Design Adapter	
Adapter Housing Color	Beige
Adapter Housing Material	Metal
Adapter Type	ST [®] Compatible
Insert Material	Ceramic

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2002/95/ EG

Ordering Information

Part Number	CCH-CP12-15T
Product Description	Closet Connector Housing (CCH) Panel, ST [®] Compatible adapters, Simplex, 12 F, 62.5 µm multimode (OM1)

Shipping Information

Units per Delivery	1/1
Package Contents	CCH Adapter Panel with installation guide



Closet Connector Housing (CCH) Panel, ST[®] Compatible Adapters

Simplex, 12 F, 62.5 µm multimode (OM1)

CORNING

Notes



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RACKMOUNT UPS

GENERAL

1	Specification Section	:	16710
2	Component Code	:	N/A
3	Tag No.	:	N/A
RACKN	IOUNT UPS		
4	Туре	:	9130 Rackmount UPS
5	Power rating (VA/watts)	:	700/630
6	Input	:	5-15P
7	Output	:	(6) 5-15R
8	Input cord length	:	6 ft.
MANUF	ACTURER & NO.		
9	Manufacturer	:	Eaton
10	Model No.	:	PW9130L700R-XL2U



Eaton 9130 Rackmount UPS

Online power quality and scalable battery runtimes for IT equipment

Eaton 9130 Rackmount features and benefits

Reliability: Online, double-conversion topology ensures that loads are powered with the highest level of protection available. Mission-critical applications benefit from zero transfer time to battery and an internal automatic bypass. In addition, premium power filtering is ideal for harsh environments where harmonics and other voltage disturbances may occur.

Increased battery life: Eaton® offers ABM® technology that increases battery service life by 50 percent. ABM uses an advanced, three-stage charging technique and closely monitors battery health to provide advanced notice when batteries need replacement.

More power: The 9130 allows you to connect more devices and leave room for expanding IT systems by providing up to 28 percent more wattage compared to traditional UPSs.

Manageability:

- Load segmentation: Grouped outlets with remote control capability enable IT managers to cycle or shed loads through a webcard interface or based upon a preprogrammed schedule.
- Eaton's Intelligent Power Manager (IPM): IPM software provides network power management, ensuring data and system integrity. With IPM, you can have access to easy, versatile, remote monitoring and management of multiple devices.

LCD interface: The bright, intuitive LCD user interface simplifies UPS monitoring and management. The user-friendly menu allows you to view all critical UPS information in a single view.



Intelligent Power Software Suite

By integrating the bundled Intelligent Power[®] Software Suite (IPSS), you can monitor and manage your network power devices. IPSS enables you to:

- Seamlessly integrate with VMware's vCenter[™] Server[™] virtualization management solution, as well as virtualization platforms such as Citrix[®] XenServer, Microsoft SCVMM[™], Red Hat[®] and other Xen[®] open source platforms
- Initiate live migration of virtual machines (VMs) to automatically and transparently migrate them during power disruptions to unaffected devices with systems such as VMware vMotion[™] and Microsoft Live Migration
- Gracefully shutdown computers, VMs and host servers during an extended power outage

To learn more, please visit: Eaton.com/intelligentpower



Services and support

Eaton provides 24x7 product support. From battery replacement to full UPS service plans, Eaton has one of the top service models in the industry.

Front panel overview



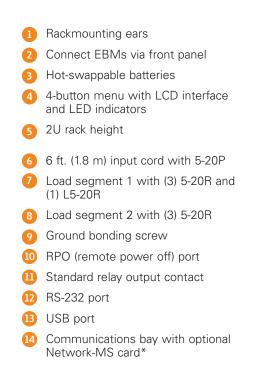
Back panel overview

Model PW9130L2000R-XL2U (2 kVA, 120V output, 50/60 Hz)



*Virtualization-ready bundles with included Network Card-MS are available for select Eaton 9130 Rackmount UPS models, providing real time monitoring and control across UPSs within the network. See models listed below.

9130 Rackmount model selection guide



North Americane models: 120V, 50/60 Hz PV9130L700R-XL2U 700/630 5-15P* (6) 5-15R 3.4 (2U) x 17.2 x 17.7 35.3 PV9130L700R-XL2U 1000/900 5-15P* (6) 5-15R 3.4 (2U) x 17.2 x 17.7 35.3 PV9130L1500R-XL2U 1500/1350 5-15P* (6) 5-15R 3.4 (2U) x 17.2 x 17.7 43.0 PV9130L200R-XL2U 2000/1800 5-20P* (6) 5-20R, (1) L5-20R 3.4 (2U) x 17.2 x 23.6 65.0 PV9130L200R-XL2U 2000/2700 L5-30P* (6) 5-20R, (1) L5-30R 3.4 (2U) x 17.3 x 16.9 43.0 PV9130L300R-XL2U 3000/2700 L5-30P* (6) 5-15R 3.4 (2U) x 17.3 x 22.6 65.0 North American models: 120V, 50/60 Hz Trutualization-ready bundles with Network Card-MS PV9130L2000R-XL2UN 1500/1350 5-15P* (6) 5-15R 3.4 (2U) x 17.3 x 22.6 65.0 Global models: 20V, 50/60 Hz Trutualization -ready bundles with Network Card-MS PV9130L3000R-XL2UN 3000/2700 L6-30P* (6) 5-20R, (1) L5-30R 3.4 (2U) x 17.2 x 17.7 43.0 PV9130L3000R-XL2UN 3000/2700 L6-20P*	Catalog number	Power rating (VA/watts)	Input			Output		Dimensions (HxW	VxD, in.)	Weight (lb.)
PWs13bl+1600P-XL2U 1000/900 5-15P' (6) 5-15R 3.4 (2U) x 17.2 x 17.7 35.3 PW9130L1500R-XL2U 1500/1350 5-15P' (6) 5-15R 3.4 (2U) x 17.2 x 17.7 43.0 PW9130L1500R-XL2U 2000/1800 5-20P' (6) 5-20R, (1) L5-20R 3.4 (2U) x 17.2 x 23.6 65.9 PW9130L2500R-XL2U 2000/250 L5-30P' (6) 5-20R, (1) L5-30R 3.4 (2U) x 17.2 x 23.6 65.0 PV9130L3000R-XL2U 3000/2700 L5-30P'' (6) 5-15R 3.4 (2U) x 17.2 x 23.6 65.0 North American models: 120V, 50/60 Hz Virtualization-ready bundles with Network Card-MS V 94.30 94.30 PW9130L2000R-XL2UN 1500/1350 5-15P' (6) 5-20R, (1) L5-30R 3.4 (2U) x 17.3 x 22.6 65.9 PW9130L2000R-XL2UN 2000/1800 5-20P'' (6) 5-20R, (1) L5-30R 3.4 (2U) x 17.3 x 22.6 65.0 Global models: 208V, 50/60 Hz V V 3000/2700 L6-20P'' 1) L6-30R, (1) L6-30R, 3.4 (2U) x 17.2 x 17.7 43.0 PW913030000R-XL2U 3000/2700 L6-20P'' 1) L6-30R, (1) L6-30R, (2) C-20R''' 3.4 (2U) x 17.2 x 17.7<	North American models:	North American Wodels: 120V, 50/60 Hz									
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North American models: 120V, 50/60 Hz Virtualization-ready bundles with Network Card-MS PW9130L1500R-XL2UN 1500/1350 5-15P ¹ (6) 5-15R 3.4 (2U) x 17.3 x 16.9 43.0 PW9130L2000R-XL2UN 2000/1800 5-20P ¹ (6) 5-20R, (1) L5-20R 3.4 (2U) x 17.3 x 22.6 63.9 PW9130L3000R-XL2UN 3000/2700 L5-30P ¹ (6) 5-20R, (1) L5-30R 3.4 (2U) x 17.2 x 22.6 65.0 Global models: 208V, 50/60 Hz PW9130G3000R-XL2U 3000/2700 L6-20P ¹ 1) L6-30R, (1) L6-20R, (2) 6-20R 3.4 (2U) x 17.2 x 23.6 65.0 PW9130G3000R-XL2U 3000/2700 L6-20P ¹ 1) L6-30R, (1) L6-20R, (2) 6-20R 3.4 (2U) x 17.2 x 23.6 65.0 PW9130G3000R-XL2U 3000/2700 L6-20P ¹ (8) C13, (1) C19 3.4 (2U) x 17.2 x 17.7 43.0 PW913011000R-XL2U 1000/900 C14 ² (6) C13 3.4 (2U) x 17.2 x 17.7 43.0 PW9130130200R-XL2U 2000/1800 C14 ² (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 65.0 PW9130130200R-XL2U 2000/1800 C14 ² (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 65.0	PW9130L2500R-XL2U	2500/22	250	L5-30P	1	(6) 5-2	<u>DR, (1) L5-30R</u>		3.4 (2U) x 17.2 >	x 23.6	65.0
PW9130L1500R-XL2UN 1500/1350 5-15P' (6) 5-15R 3.4 (2U) x 17.3 x 16.9 43.0 PW9130L2000R-XL2UN 2000/1800 5-20P' (6) 5-20R, (1) L5-20R 3.4 (2U) x 17.3 x 22.6 63.9 PW9130L3000R-XL2UN 3000/2700 L5-30P' (6) 5-20R, (1) L5-30R 3.4 (2U) x 17.3 x 22.6 65.0 Global models: 280V, 50/60 Hz 9 (6) 5-20R, (1) L6-20R, (2) 6-20R 3.4 (2U) x 17.2 x 23.6 65.0 PW9130G3000R-XL2U 3000/2700 L6-20P' 1) L6-30R, (1) L6-20R, (2) 6-20R 3.4 (2U) x 17.2 x 23.6 65.0 PW9130G3000R-XL2UE 3000/2700 L6-20P' (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 65.0 International models: 230V, 50/60 Hz 9 9 9 1000/900 C14² (6) C13 3.4 (2U) x 17.2 x 17.7 35.3 PW91301500R-XL2U 1000/900 C14² (8) C13, (1) C19 3.4 (2U) x 17.2 x 17.7 43.0 PW913013000R-XL2U 2000/1800 C14² (8) C13, (1) C19 3.4 (2U) x 17.2 x 17.7 43.0 PW913013000R-XL2U 2000/1800 C14² (8) C13, (1) C19 3.4 (2U) x 17.2	PW9130L3000R-XL2U	3000/27	00	L5-30P		(6) 5-2	OR, (1) L5-30R		3.4 (2U) x 17.2 >	x 23.6	65.0
PW9130L2000R-XL2UN 2000/1800 5-20P ¹ (6) 5-20R, (1) L5-20R 3.4 (2U) x 17.3 x 22.6 63.9 PW9130L3000R-XL2UN 3000/2700 L5-30P ¹ (6) 5-20R, (1) L5-30R 3.4 (2U) x 17.3 x 22.6 65.0 Global models: 208V, 50/60 Hz PW9130G3000R-XL2U 3000/2700 L6-20P ¹ 1) L6-30R, (1) L6-20R, (2) 6-20R 3.4 (2U) x 17.2 x 23.6 65.0 PW9130G3000R-XL2UEU 3000/2700 L6-20P ¹ (1) L6-30R, (1) L6-20R, (2) 6-20R 3.4 (2U) x 17.2 x 23.6 65.0 International models: 230V, 50/60 Hz PW9130i 1000R-XL2UEU 3000/2700 C14 ² (6) C13 3.4 (2U) x 17.2 x 17.7 35.3 PW9130i 1500R-XL2U 1000/900 C14 ² (8) C13, (1) C19 3.4 (2U) x 17.2 x 17.7 43.0 PW9130i 2000R-XL2U 2000/1800 C14 ² (8) C13, (1) C19 3.4 (2U) x 17.2 x 17.7 43.0 PW9130i 3000R-XL2U 2000/1800 C14 ² (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 65.0 Extended battery modules 90/9130i 3000R-XL2U 3000/2700 C20 ³ (8) C13, (1) C19 3.4 (2U) x 17.2 x 17.7 62.0 PW9130N1000R-EB	North American models:	120V, 50/60 Hz Virt	ualization-rea	ady bundles	with Netwo	ork Card-MS					
PW9130L3000R-XL2UN 3000/2700 L5-30P* (6) 5-20R, (1) L5-30R 3.4 (2U) x 17.3 x 22.6 65.0 Global models: 208V, 50/60 Hz 3.4 (2U) x 17.3 x 22.6 65.0 PW9130G3000R-XL2U 3000/2700 L6-20P' 1) L6-30R, (1) L6-20R, (2) 6-20R 3.4 (2U) x 17.2 x 23.6 65.0 PW9130G3000R-XL2U 3000/2700 L6-20P' (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 65.0 International models: 230V, 50/60 Hz PW9130I3000R-XL2U 1000/900 C14° (6) C13 3.4 (2U) x 17.2 x 17.7 35.3 PW9130I1500R-XL2U 1000/900 C14° (6) C13 3.4 (2U) x 17.2 x 17.7 43.0 PW9130I1500R-XL2U 1000/900 C14° (8) C13, (1) C19 3.4 (2U) x 17.2 x 17.7 43.0 PW9130I1500R-XL2U 2000/1800 C14° (8) C13, (1) C19 3.4 (2U) x 17.2 x 17.7 43.0 PW9130I3000R-XL2U 3000/2700 C20° (8) C13, (1) C19 3.4 (2U) x 17.2 x 17.7 48.7 PW9130I1500R-XL2U Works with 700/1000 VA models, where available 3.4 (2U) x 17.2 x 17.7 62.0 3.4 (2U) x 17.2 x 17.7 62.0	PW9130L1500R-XL2UN	1500/13	50	5-15P'		(6) 5-15R		3.4 (2U) x 17.3 x	(16.9	43.0
Global models: 208V, 50/60 Hz PW9130G3000R-XL2U 3000/2700 L6-20P ¹ 1) L6-30R, (1) L6-20R, (2) 6-20R 3.4 (2U) x 17.2 x 23.6 65.0 PW9130G3000R-XL2UEU 3000/2700 L6-20P ¹ (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 65.0 International models: 230V, 50/60 Hz PW9130i1000R-XL2U 1000/900 C14 ² (6) C13 3.4 (2U) x 17.2 x 17.7 35.3 PW9130i1500R-XL2U 1000/900 C14 ² (6) C13 3.4 (2U) x 17.2 x 17.7 43.0 PW9130i2000R-XL2U 2000/1800 C14 ² (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 63.9 PW9130i3000R-XL2U 2000/1800 C14 ² (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 65.0 Extended battery modules 500/2700 C20 ³ (8) C13, (1) C19 3.4 (2U) x 17.2 x 17.7 48.7 PW9130N1000R-EBM2U Works with 700/1000 VA models, where available 3.4 (2U) x 17.2 x 17.7 48.7 PW9130N3000R-EBM2U Works with 2000-3000 VA models, where available 3.4 (2U) x 17.2 x 23.6 90.6 Rackmount bypass accessories 3.4 (2U) x 17.2 x 23.6 90.6 90.6	PW9130L2000R-XL2UN	2000/18	300	5-20P'		(6) 5-2	DR, (1) L5-20F	3	3.4 (2U) x 17.3 x	x 22.6	63.9
PW9130G3000R-XL2U 3000/2700 L6-20P' 1) L6-30R, (1) L6-20R, (2) 6-20R 3.4 (2U) x 17.2 x 23.6 65.0 PW9130G3000R-XL2UEU 3000/2700 L6-20P' (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 65.0 International models: 230V, 50/60 Hz PW9130i1000R-XL2U 1000/900 C14² (6) C13 3.4 (2U) x 17.2 x 17.7 35.3 PW9130i1500R-XL2U 1500/1350 C14² (6) C13 3.4 (2U) x 17.2 x 17.7 43.0 PW9130i2000R-XL2U 2000/1800 C14² (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 63.9 PW9130i3000R-XL2U 3000/2700 C20° (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 65.0 Extended battery modules 3000/2700 C20° (8) C13, (1) C19 3.4 (2U) x 17.2 x 17.7 48.7 PW9130N1500R-EBM2U Works with 700/1000 VA models, where available 3.4 (2U) x 17.2 x 17.7 48.7 PW9130N1500R-EBM2U Works with 2000-3000 VA models, where available 3.4 (2U) x 17.2 x 17.7 62.0 PW9130N3000R-EBM2U Works with 2000-3000 VA models, where available 3.4 (2U) x 17.2 x 17.7 62.0 PW9130N1500R-EBM2U<	PW9130L3000R-XL2UN	3000/27	/00	L5-30P	1	(6) 5-2	DR, (1) L5-30F	{	3.4 (2U) x 17.3 x	x 22.6	65.0
PW9130G3000R-XL2UEU 3000/2700 L6-20P ³ (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 65.0 International models: 230V, 50/60 Hz PW9130i1000R-XL2U 1000/900 C14 ² (6) C13 3.4 (2U) x 17.2 x 17.7 35.3 PW9130i1000R-XL2U 1000/900 C14 ² (6) C13 3.4 (2U) x 17.2 x 17.7 43.0 PW9130i1500R-XL2U 1500/1350 C14 ² (6) C13 3.4 (2U) x 17.2 x 17.7 43.0 PW9130i200R-XL2U 2000/1800 C14 ² (8) C13, (1) C19 3.4 (2U) x 17.2 x 17.7 43.0 PW9130i3000R-XL2U 2000/1800 C14 ² (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 65.0 Extended battery modules 9W9130i3000R-XL2U 3000/2700 C20 ³ (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 65.0 Extended battery modules 9W9130N1000R-EBM2U Works with 700/1000 VA models, where available 3.4 (2U) x 17.2 x 17.7 48.7 PW9130N3000R-EBM2U Works with 2000-3000 VA models, where available 3.4 (2U) x 17.2 x 23.6 90.6 Rackmount bypass accessories Catalog number Input plug Breaker Max kW <td>Global models: 208V, 50/6</td> <td>io Hz</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Global models: 208V, 50/6	io Hz									
International models: 230V, 50/60 Hz PW9130i1000R-XL2U 1000/900 C14² (6) C13 3.4 (2U) x 17.2 x 17.7 35.3 PW9130i1500R-XL2U 1500/1350 C14² (6) C13 3.4 (2U) x 17.2 x 17.7 43.0 PW9130i2000R-XL2U 2000/1800 C14² (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 63.9 PW9130i3000R-XL2U 3000/2700 C20² (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 65.0 Extended battery modules 9W9130N1000R-EBM2U Works with 700/1000 VA models, where available 3.4 (2U) x 17.2 x 17.7 48.7 PW9130N1500R-EBM2U Works with 1500 VA models, where available 3.4 (2U) x 17.2 x 17.7 62.0 PW9130N3000R-EBM2U Works with 2000-3000 VA models, where available 3.4 (2U) x 17.2 x 23.6 90.6 Rackmount bypass accessories 3.4 (2U) x 17.2 x 23.6 90.6 90.6 Catalog number Style number Input plug Breaker Max kW Function Cord (ft.) Orientation Receptacles Dimensions (HxWxD, in.) EHBPL1500R-PDU1U 58115 5-15P None 1.44	PW9130G3000R-XL2U	3000/27	'00	L6-20P		1) L6-30R, (*) L6-20R, (2) 6	6-20R	3.4 (2U) x 17.2 x	x 23.6	65.0
PW9130i1000R-XL2U 1000/900 C14² (6) C13 3.4 (2U) x 17.2 x 17.7 35.3 PW9130i1500R-XL2U 1500/1350 C14² (6) C13 3.4 (2U) x 17.2 x 17.7 43.0 PW9130i2000R-XL2U 2000/1800 C14² (8) C13, (1) C19 3.4 (2U) x 17.2 x 17.7 43.0 PW9130i3000R-XL2U 2000/1800 C14² (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 63.9 PW9130i3000R-XL2U 3000/2700 C20° (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 65.0 Extended battery modules 3.4 (2U) x 17.2 x 17.7 48.7 PW9130N1500R-EBM2U Works with 700/1000 VA models, where available 3.4 (2U) x 17.2 x 17.7 62.0 PW9130N3000R-EBM2U Works with 2000-3000 VA models, where available 3.4 (2U) x 17.2 x 23.6 90.6 Rackmount bypass accessories 3.4 (2U) x 17.2 x 3.6 90.6 90.6 Rackmount bypass accessories 3.4 (2U) x 17.2 x 3.6 90.6 EHBPL1500R-PDU1U 58115 5-15P None 1.44 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8	PW9130G3000R-XL2UEU	3000/27	'00	L6-20P	1	(8) (13, (1) C19		3.4 (2U) x 17.2	x 23.6	65.0
PW9130i1500R-XL2U 1500/1350 C14' (6) C13 3.4 (2U) x 17.2 x 17.7 43.0 PW9130i2000R-XL2U 2000/1800 C14' (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 63.9 PW9130i3000R-XL2U 3000/2700 C20' (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 65.0 Extended battery modules PW9130N1000R-EBM2U Works with 700/1000 VA models, where available 3.4 (2U) x 17.2 x 17.7 48.7 PW9130N1500R-EBM2U Works with 1500 VA models, where available 3.4 (2U) x 17.2 x 17.7 62.0 PW9130N3000R-EBM2U Works with 2000-3000 VA models, where available 3.4 (2U) x 17.2 x 23.6 90.6 Rackmount bypass accessories 3.4 (2U) x 17.2 x 17.7 62.0 90.6 Rackmount bypass accessories Style number Input plug Breaker Max kW Function Cord (ft.) Orientation Receptacles Dimensions (HxWxD, in.) EHBPL1500R-PDU1U 58115 5-15P None 1.44 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8 EHBPL2000R-PDU1U 58120 5-20P None 1.92	International models: 230	V, 50/60 Hz									
PW9130i2000R-XL2U 2000/1800 C14² (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 63.9 PW9130i3000R-XL2U 3000/2700 C20³ (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 65.0 Extended battery modules PW9130N1000R-EBM2U Works with 700/1000 VA models, where available 3.4 (2U) x 17.2 x 17.7 48.7 PW9130N1500R-EBM2U Works with 1500 VA models, where available 3.4 (2U) x 17.2 x 17.7 62.0 PW9130N3000R-EBM2U Works with 2000-3000 VA models, where available 3.4 (2U) x 17.2 x 17.7 62.0 PW9130N3000R-EBM2U Works with 2000-3000 VA models, where available 3.4 (2U) x 17.2 x 23.6 90.6 Rackmount bypass accessories Catalog number Input plug Breaker Max kW Function Cord (ft.) Orientation Receptacles Dimensions (HxWxD, in.) EHBPL1500R-PDU1U 58115 5-15P None 1.44 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8 EHBPL2000R-PDU1U 58120 5-20P None 1.92 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8	PW9130i1000R-XL2U	1000/9	00	C14 ²			(6) C13		3.4 (2U) x 17.2 x	(17.7	35.3
PW9130i3000R-XL2U 3000/2700 C20° (8) C13, (1) C19 3.4 (2U) x 17.2 x 23.6 65.0 Extended battery modules PW9130N1000R-EBM2U Works with 700/1000 VA models, where available 3.4 (2U) x 17.2 x 17.7 48.7 PW9130N1500R-EBM2U Works with 1500 VA models, where available 3.4 (2U) x 17.2 x 17.7 62.0 PW9130N3000R-EBM2U Works with 2000-3000 VA models, where available 3.4 (2U) x 17.2 x 23.6 90.6 Rackmount bypass accessories Catalog number Input plug Breaker Max kW Function Cord (ft.) Orientation Receptacles Dimensions (HxWxD, in.) EHBPL1500R-PDU1U 58115 5-15P None 1.44 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8 EHBPL2000R-PDU1U 58120 5-20P None 1.92 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8	PW9130i1500R-XL2U	1500/13	350	C14 ²		(6) C13			3.4 (2U) x 17.2 x	x 17.7	43.0
Extended battery modules PW9130N1000R-EBM2U Works with 700/1000 VA models, where available 3.4 (2U) x 17.2 x 17.7 48.7 PW9130N1500R-EBM2U Works with 1500 VA models 3.4 (2U) x 17.2 x 17.7 62.0 PW9130N3000R-EBM2U Works with 2000-3000 VA models, where available 3.4 (2U) x 17.2 x 17.7 62.0 PW9130N3000R-EBM2U Works with 2000-3000 VA models, where available 3.4 (2U) x 17.2 x 23.6 90.6 Rackmount bypass accessories Catalog number Input plug Breaker Max kW Function Cord (ft.) Orientation Receptacles Dimensions (HxWxD, in.) EHBPL1500R-PDU1U 58115 5-15P None 1.44 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8 EHBPL2000R-PDU1U 58120 5-20P None 1.92 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8	PW9130i2000R-XL2U	2000/18	300	C14 ²		(8) (13, (1) C19		3.4 (2U) x 17.2 x	x 23.6	63.9
PW9130N1000R-EBM2U Works with 700/1000 VA models, where available 3.4 (2U) x 17.2 x 17.7 48.7 PW9130N1500R-EBM2U Works with 1500 VA models 3.4 (2U) x 17.2 x 17.7 62.0 PW9130N3000R-EBM2U Works with 2000-3000 VA models, where available 3.4 (2U) x 17.2 x 17.7 62.0 PW9130N3000R-EBM2U Works with 2000-3000 VA models, where available 3.4 (2U) x 17.2 x 23.6 90.6 Rackmount bypass accessories Catalog number Style number Input plug Breaker Max kW Function Cord (ft.) Orientation Receptacles Dimensions (HxWxD, in.) EHBPL1500R-PDU1U 58115 5-15P None 1.44 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8 EHBPL2000R-PDU1U 58120 5-20P None 1.92 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8	PW9130i3000R-XL2U	3000/27	'00	C20 ³		(8) (13, (1) C19		3.4 (2U) x 17.2 x	x 23.6	65.0
PW9130N1500R-EBM2U Works with 1500 VA models 3.4 (2U) x 17.2 x 17.7 62.0 PW9130N3000R-EBM2U Works with 2000-3000 VA models, where available 3.4 (2U) x 17.2 x 23.6 90.6 Rackmount bypass accessories Catalog number Style number Input plug Breaker Max kW Function Cord (ft.) Orientation Receptacles Dimensions (HxWxD, in.) EHBPL1500R-PDU1U 58115 5-15P None 1.44 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8 EHBPL2000R-PDU1U 58120 5-20P None 1.92 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8	Extended battery module	s	· · · · · · · · · · · · · · · · · · ·		Ú.					1	
PW9130N1500R-EBM2U Works with 1500 VA models 3.4 (2U) x 17.2 x 17.7 62.0 PW9130N3000R-EBM2U Works with 2000-3000 VA models, where available 3.4 (2U) x 17.2 x 23.6 90.6 Rackmount bypass accessories Style number Input plug Breaker Max kW Function Cord (ft.) Orientation Receptacles Dimensions (HxWxD, in.) EHBPL1500R-PDU1U 58115 5-15P None 1.44 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8 EHBPL2000R-PDU1U 58120 5-20P None 1.92 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8	PW9130N1000R-EBM2U	Works with 700/10	000 VA models	, where avai	able				3.4 (2U) x 17.2 x	(17.7	48.7
Rackmount bypass accessories Catalog number Style number Input plug Breaker Max kW Function Cord (ft.) Orientation Receptacles Dimensions (HxWxD, in.) EHBPL1500R-PDU1U 58115 5-15P None 1.44 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8 EHBPL2000R-PDU1U 58120 5-20P None 1.92 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8	PW9130N1500R-EBM2U	Works with 1500 \	/A models								62.0
Catalog number Style number Input plug Breaker Max kW Function Cord (ft.) Orientation Receptacles Dimensions (HxWxD, in.) EHBPL1500R-PDU1U 58115 5-15P None 1.44 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8 EHBPL2000R-PDU1U 58120 5-20P None 1.92 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8	PW9130N3000R-EBM2U	Works with 2000-3	3000 VA model	dels, where available					90.6		
EHBPL1500R-PDU1U 58115 5-15P None 1.44 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8 EHBPL2000R-PDU1U 58120 5-20P None 1.92 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8	Rackmount bypass acces	ssories								Î.	
EHBPL2000R-PDU1U 58120 5-20P None 1.92 BA 8 2U (6) 5-15R 2.1 x 17.3 x 3.8	Catalog number	Style number	Input plug	Breaker	Max kW	Function	Cord (ft.)	Orientation	Receptacles	Dimensi	ions (HxWxD, in.)
	EHBPL1500R-PDU1U	58115	5-15P	None	1.44	BA	8	2U	(6) 5-15R	2.1	x 17.3 x 3.8
EHBPL3000R-PDU1U 58130 L5-30P (2) 20A 2.88 BA 3.3 2U (5) 5-20R 2.1 x 17.3 x 3.8	EHBPL2000R-PDU1U	58120	5-20P	None	1.92	BA	8	2U	(6) 5-15R	2.1	x 17.3 x 3.8
	EHBPL3000R-PDU1U	58130	L5-30P	(2) 20A	2.88	BA	3.3	2U	(5) 5-20R	2.1	x 17.3 x 3.8

EHBPI3000R-PDU1UIEC

1. Input cord length is 6 ft. 2. C14, w/ detachable L6-20P.

3. C20, w/ detachable L6-20P.

Additional notes:

TAA-compliant models: Eaton now offers

TAA-compliant models for the 9130. Please visit Eaton.com/taaups for model specific information.

Powering Business Worldwide

C20 Other available options

68433

- Environmental Monitoring Probe

- PowerPass Distribution Modules

- 1U HotSwap Maintenance Bypass

(1) 20A

3000

ΒA

Visit Eaton.com/9130RM for details.

Eaton 1000 Eaton Boulevard Cleveland, OH 44122 Eaton.com

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For complete battery runtime information and to interact with the 9130 Rackmount UPS, please visit: Eaton.com/9130RM

(1) C19, (6) C13

2.1 x 17.3 x 4.8

2U

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SERVER RACK GENERAL **Specification Section** 16710 1 2 Component Code 2 : N/A Tag No. N/A 3 : SERVER RACK ACCESSPLUS® II Double-Hinge, Type 1 4 Type : 5 Rack Units 2 26 Pretreated steel coated with RAL 9005 black 6 Material : light-textured, low-gloss polyester powder paint **MANUFACTURER & NO.** Manufacturer Hoffman 7 : :

- 8 Model No.
- Cable Management No. 9
- EWMW482425
- Black Box 37803-R2 :



ACCESSPLUS® II Double-Hinge

ACCESSPLUS® II Double-Hinge, Type 1





Industry Standards

UL 508A; Type 1; File No. E61997 cUL Listed per CSA C22.2 No. 182.4; File No. E230874

EIA 310-D NEMA/EEMAC Type 1 EIC 60529 IP20 Per BICSI TDMM Tenth edition, Chapter 7, Telecommunication Enclosures (TE)

Application

ACCESSPLUS[®] II Cabinets provide security, equipment access, cooling and support for network and other 19-in. rack-mount equipment. The cabinet has three components: front door, center section and wall section.

Features

- Double-hinged for easy equipment access; center section provides 19-in. rack mounting per EIA universal spacing and is accessed through the front door or swing the center section away from the wall section for rear access
- · Round corners; no sharp edges
- Front door has either a solid steel or hardened, tinted safety-glass window door for superior scratch resistance
- Center section easily removed from rear section; tool-less oneperson installation possible
- Self-grounding, plated steel rack angles fully adjustable within center section
- Wall section provides cable entry and cable management with knockouts or gland plates
- Gland plate model provides easy retrofit and fast installation and allows for pre-terminated cables or pre-wired patch panels; no need to re-terminate and test
- Self-locking center-to-wall section latches in two locations
- Front access to all latches (no exposed side latches); cabinet can be installed tightly in corners
- Vented sides provide cross flow ventilation to improve heat dissipation
- Vertical cable manager included in 28-in.-wide models
- A full line of accessories is available

Specifications

Front Door (window or solid steel)

- Composite frame (injection molded top and bottom with extruded composite sides)
- 140-degree opening door
- Field-reversible (left or right) hinge
- Quarter-turn key lock, two keys included
- Window door is scratch-resistant 1/4-in. tinted safety glass
- Solid door has 16 gauge steel insert with matching black finish

Center Section

- Welded 14 gauge steel
- Solid top of center sections provides protection against falling debris
- Ventilated sides (to which fans can be added)
- Self-latching closure connects center section to wall section
- Self-alignment ramp supports center section to wall section
- Heavy duty center-to-rear section hinge with quick-release selfretained hinge pin eases wall installation

Rack-Mounting Angles

- 12 gauge, plated steel
- EIA universal spaced 19-in. rack-mounting holes
- RU marked from bottom to top
- Tapped 10-32 holes, 20 mounting screws included

Rear Wall Section

- Welded 14 gauge steel
- Radius corners; no sharp edges
- Available with knockouts or gland plates
- Raised pads for accessory mounting
- Cable tie-down points for cable management
- Keyhole mounting holes allow wall section to be mounted over fasteners and eases installation
- Three cable-entry grommets

Finish

Pretreated steel coated with RAL 9005 black light-textured, low-gloss polyester powder paint. Other finishes available—contact Hoffman Customer Service.

Bulletin: DWDH1

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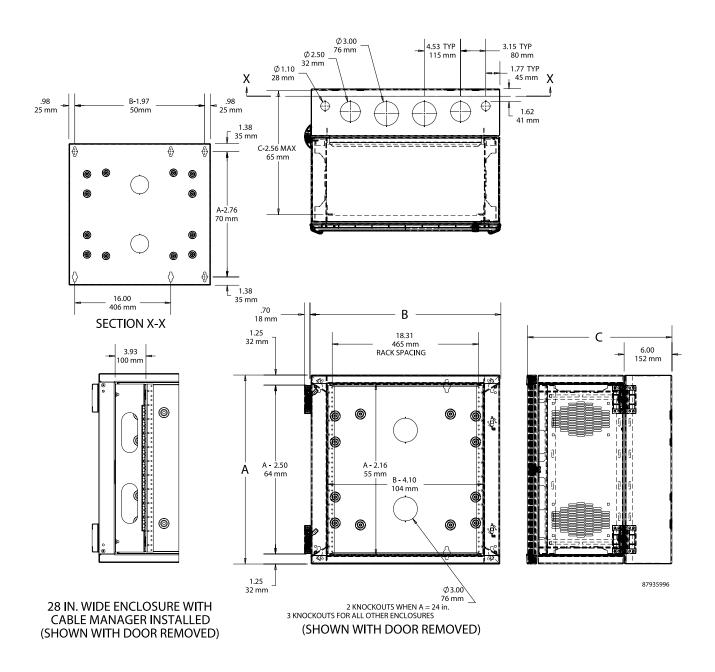


ACCESSPLUS® II Double-Hinge

Standard Product Window Door

Catalog Number	AxBxC in.	AxBxC mm	Rack Units	Additional Rack Angles (S=Square Hole) (T=Tapped Hole)
EWMW242418	23.60 x 23.62 x 18.20	600 x 600 x 462	12	EWMR24T or EWMR24S
EWMW362418	36.02 x 23.62 x 18.20	915 x 600 x 462	19	EWMR36T or EWMR36S
EWMW482418	48.03 x 23.62 x 18.20	1220 x 600 x 462	26	EWMR48T or EWMR48S
EWMW602418	60.04 x 23.62 x 18.20	1525 x 600 x 462	32	EWMR60T or EWMR60S
EWMW722418	72.05 x 23.62 x 18.20	1830 x 600 x 462	39	EWMR72T or EWMR72S
EWMW242425	23.62 x 23.62 x 25.09	600 x 600 x 637	12	EWMR24T or EWMR24S
EWMW262425	36.02 x 23.62 x 25.09	915 x 600 x 637	19	EWMR36T or EWMR36S
EWMW482425	48.03 x 23.62 x 25.09	1220 x 600 x 637	26	EWMR48T or EWMR48S
EWMW002425	60.04 x 23.62 x 25.09	1525 x 600 x 637	32	EWMR60T or EWMR60S
EWMW722425	72.05 x 23.62 x 25.09	1830 x 600 x 637	39	EWMR72T or EWMR72S
EWMW242430	23.62 x 23.62 x 30.01	600 x 600 x 762	12	EWMR24T or EWMR24S
EWMW362430	36.02 x 23.62 x 30.01	915 x 600 x 762	19	EWMR36T or EWMR36S
EWMW482430	48.03 x 23.62 x 30.01	1220 x 600 x 762	26	EWMR48T or EWMR48S

B dimension does not include wall-to-center section hinge.





Security Camera Systems

For

Record Storage Building Red River WWTP Bossier City, LA

Revere Control Systems 2240 Rocky Ridge Road Birmingham, AL 35216

Engineer Manchac Consulting Group, Inc. Quail Run Drive, Suite A Baton Rouge, LA. 70808

Phone (318) 397-0208 • Fax (318) 397-0140 P. O. Box 607 • West Monroe, Louisiana 71294 315 Wallace Dean Road • West Monroe, Louisiana 71291

Waste Water System Improvements

Record Storage Building

Red River WWTP

- Switch REC-NSW-080 (qty: 1)
 Switch has 16 POE+ ports
 Redundant power supplies
 SFP Gigabit module (qty: 2)
- Cameras Axis Q-6042 (qty: 6) includes midspan



Product information MACH104-16TX-PoEP -R

Vame	MACH104-16TX-POEP -R
	1
	8
	20 Port Gigabit Ethernet Industrial Workgroup Switch (16 x GE TX PoEPlus Ports, 4 x GE SFP combo Ports), managed, Software Layer 2 Professional, Store-and Sectivity ID & Decitivity ID & Deci
Adiuony informationa	Forward-Switching, IPv6 Ready
elivery informations	ausiable
vailability roduct description	available
Description	20 Port Gigabit Ethernet Industrial Workgroup Switch (16 x GE TX PoEPlus Ports, 4 x GE SFP combo Ports), managed, Software Layer 2 Professional, Store-an
escription	Forward-Switching, IPv6 Ready
Port type and quantity	20 Ports geamt; 16 x (10/100/1000 BASE-TX, RJ45) PoEPlus und 4 x Gigabit Combo Ports (10/100/1000 BASE-TX, RJ45 oder 100/1000 BASE-FX, SFP)
ype	MACH104-16TX-PoEP -R
irder No.	942 026-001
lore Interfaces	
ower supply/signaling contact	1 x terminal block 2-pins, contact manually or automatically (max. 1 A, 24 V DC or 24 V AC)
24 interface	1 x RJ11 socket, serial interface for device configuration
SB interface	1 x USB to connect the AutoConfiguration Adapter ACA21-USB
etwork size - length of cable	
wisted pair (TP)	0 m 100 m
lultimode fiber (MM) 50/125 µm	see SFP LWL-Module M-FAST SFP-MM/LC and SFP LWL-Module M-SFP-SX/LC
lultimode fiber (MM) 62.5/125 µm	see SFP LWL-Module M-FAST SFP-MM/LC and SFP LWL-Module M-SFP-SX/LC
ingle mode fiber (SM) 9/125 μm	see SFP LWL-Module M-FAST SFP-SM/LC und SFP LWL-Module M-SFP-LX/LC
ingle mode fiber (LH) 9/125 µm (long haul	see SFP LWL-Module M-FAST SFP-SM+/LC
ransceiver)	
0G-Multimode fiber (MM) 50/125 μm	n/a
0G-Single mode fiber (SM) 9/125 μm	n/a
letwork size - cascadibility	
ine - / star topology	any
ing structure (HIPER-Ring) quantity switches	50 (reconfiguration time < 0.3 sec.)
ower requirements	
perating voltage	100-240 VAC, 50-60 Hz (redundant)
eat dissipation	119 Btu (IT) h
eat dissipation at max. PoE power	235 Btu (IT) h
ower consumption	35 W
oftware	
lanagement	serial Interface, web interface, SNMP V1/V2, HiVision file transfer SW HTTP/TFTP, LLDP-MED
iagnostics	LEDs, log-file, syslog, relay contact, RMON, port mirroring 1:1 and n:1, egress/ingress traffic configurable, topology discovery 802.1AB, cable tester (TX),
	address conflict detection, network error detection, SFP diagnostic [temperature, optical input and output power (µW and dBm)], Trap for configuration savin
	and changing, duplex mismatch detection, disable learning, Port Monitor
onfiguration	Comand line interface (CLI), TELNET, BootP, DHCP, DHCP option 82, HIDiscovery, easy device exchange with auto-configuration adapter ACA21-USB (automa
	software and/or configuration upload), automatic script load from ACA21, integrated DHCP server per port, DHCP relay, automatic invalid configuration undo
	Offline Configuration, SFP Whitelist, ARC automatic ring configuration (MRP), automatic port shutdown (link flapping), configuration signature (water marking
	overload detection
ecurity	ACL/QoS, ACL Layer 4 fragment support, Port Security (IP und MAC) with multiple addresses (MAC 50 per port), SNMP V3, SSH, Authentication (IEEE802.1x)
	802.1x Multi Cliant Authentication, Guest VLAN and Unauthenticated VLAN, Port based Radius VLAN assignment, MAC notification
ledundancy functions	HIPER-Ring, MRP, MSTP, RSTP - IEEE802.1D-2004, MRP and RSTP gleichzeitig, Link Aggregation
ïlter	QoS 8 classes, priorisation (IEEE 802.1D/p), VLAN (IEEE 802.1Q), Voice VLAN, shared VLAN learning, Q-in-Q double VLAN tagging, multicast IGMP v1/v2/v3,



Industrial Ethernet:Workgroup Switches:Gigabit/10 Gigabit Ethernet PoE Workgroup Switches, 22-24 Ports:MACH104-16TX-PoEP -R

	Industrial Profiles, EtherNet/IP und PROFINET (2.2 PDEV, GSDML Stand-alone generator, automatic device exchange) profiles included, configuration and
	diagnostic via automation, software tools like e.g. STEP7, oder Control Logix IEC61850 protocol (MMS Server, Switch Model)
Time synchronisation	PTP IEEE 1588 v1/v2 Boundary and Transparent Clock hardware time stamping with accuracies of 30ns, SNTP server, realtime clock with energy buffer
Flow control	Flow Control 802.3x, Port Priority 802.1D/p, Priority (TOS/DIFFSERV), Prio (MAC/IP), Prio Mapping (TOS Layer2), Traffic Shaping (Unicast, Multicast, Broadcast, Ingress / Egress
Ambient conditions	
Operating temperature	0 °C 50 °C
Storage/transport temperature	-20 °C 85 °C
Relative humidity (non-condensing)	10 % 95 %
MTBF	n/a
Mechanical construction	
Dimensions (W x H x D)	448 mm x 44 mm x 345 mm
Mounting	19" control cabinet
Weight	4500 g
Protection class	IP20
Mechanical stability	
IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks
IEC 60068-2-6 vibration	3.5 mm, 5–8.4 Hz, 10 cycles, 1 octave/min; 1 g, 8.4–150 Hz, 10 cycles, 1 octave/min
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	4 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80-3000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 4 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 4 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)
EMC emitted immunity	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55022	EN 55022 Class A
Approvals	
Safety of industrial control equipment	cUL 508
Safety of information technology equipment	cUL 60950-1
Scope of delivery and accessories	
Scope of delivery	Device, terminal block for signal contact, 2 brackets with fasteningscrews (pre-assembled), housing feet - stick-on, non-heating appliance cable - Euro mode CD-ROM with user manual, installation user manual
Accessories to order separately	Fast Ethernet SFP modules, Gigabit Ethernet SFP modules, autoConfiguration Adapter ACA21-USB, terminal cable, Industrial Hivision Network Management software

For more information please contact: **Hirschmann Automation and Control GmbH** Stuttgarter Strasse 45-51 72654 Neckartenzlingen Germany Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com

The information published in the websites has been compiled as carefully as possible. It is subject to alteration without notice in technical as well as in price-related/commercial respect. The complete information and data were available on user documentation. Mandatory information can only be obtained by a concrete query.





The MACH4000 SFP Fiber Optic Fast-, Gigabit- and 10Gigabit- Ethernet Transceivers

Description SFP fiber optic Fast-Ethernet transceiver	W. Contraction	A CONTRACTOR	A second	March 1		
Туре	M-FAST SFP-LH/LC	M-FAST SFP-SM+/LC	M-FAST SFP-SM/LC	M-FAST SFP-MM/LC		
Order number	943 868-001	943 867-001	943 866-001	943 865-001		
letwork size – length of cable		·		•		
Aultimode fiber (MM) 50/125 µm (62.5/125 µm)				5km (4 km at 62.5/125 µm)		
Single mode fiber (SM) 9/125 µm	40 – 104 km	25 – 65 km	25 km	· · · · · · · · · · · · · · · · · · ·		
Technical data	^			·		
Port type and quantity	1x100BASE-FX with LC-Con	nector				
Diagnostics	Optical input- and output po	wer, transceiver temperature (d	iagnostic not for M-FAST SFP-N	IM/LC)		
Dperating voltage	Power supply via media mod			,		
Power consumption	1W					
Dperating temperature	0° C up to + 60° C					
SFP fiber optic Gigabit-Ethernet transc	ceiver					
Description SFP fiber optic Gigabit-Ethernet ransceiver	A COLOR	No.	A second	No.		
Type	M-SFP-LH+/LC	M-SFP-LH/LC	M-SFP-LX/LC	M-SFP-SX/LC		
Drder number	943 049-001	943 042-001	943 015-001	943 014-001		
letwork size – length of cable						
Aultimode fiber (MM) 50/125 μm (62.5/125 μm)				550m (275m at 62.5/125 µn		
Single mode fiber (SM) 9/125 µm	60 –120 km	24 – 72 km	20 km			
Technical data		·	·			
Port type and quantity	1x1000BASE-SX with LC-Co	nnector				
Diagnostics		wer, transceiver temperature				
Derating voltage	Power supply via media mod					
Power consumption	1W					
Dperating temperature	0° C up to + 60° C					
(FP fiber optic 10Gigabit-Ethernet tra	nsceiver					
Description (FP fiber optic 10Gigabit-Ethernet ransceiver						
Туре	M-XFP-ZR/LC	M-XFP-ER/LC	M-XFP-LR/LC	M-XFP-SR/LC		
Order number	943 921-001	943 920-001	943 919-001	943 917-001		
letwork size – length of cable						
Aultimode fiber (MM) 50/125 µm (62.5/125 µm)				300m (26m at 62.5/125 µn		
Single mode fiber (SM) 9/125 µm	40 –80 km	10 – 40 km	10 km			
fechnical data						
Port type and quantity	1x10GBASE-SX with LC-Con	inector				
Diagnostics		wer, transceiver temperature				
Dperating voltage	Power supply via media mod	dule				
	3W					
Power consumption						



AXIS **Q6042 PTZ** Dome Network Camera

Indoor, high-speed PTZ dome with 36x zoom



AXIS Q6042 is an advanced indoor PTZ dome, offering higher resolution than normal D1, 36x optical zoom, and fast and precise pan/tilt performance for wide area coverage and great detail when zooming in. It is ideal for airports, train stations, arenas, shopping malls and warehouses.

Supporting round-the-clock pan/tilt/zoom operation, the robust AXIS Q6042 can be automatically directed to 256 preset positions using guard tour. With endless 360° pan and high zoom, the camera can monitor an extremely wide area and provide detailed surveillance. The camera's adjustable day/night functionality ensures high image quality even in low light conditions.

AXIS Q6042 has IP52-rated protection against dust and dripping water, and support for Power over Ethernet Plus (IEEE 802.3at) using the supplied High PoE midspan. The PTZ dome also has shock detection, which mechanically detects and triggers an alarm if the camera has been hit. In vibrating conditions, the camera's electronic image

stabilization reduces the effects of camera vibrations on the view to deliver clearer video.

AXIS Q6042's built-in video analytics include Active Gatekeeper, which enables the camera to automatically move to a preset position when motion is detected in a pre-defined area, and track the detected object. The camera also has substantial capacity for third-party intelligent video applications.

With an optional multi-connector cable, AXIS Q6042 supports two-way audio, I/O ports for external devices and AC/DC power. The camera has a built-in memory card slot for local storage of recordings.





JUVIE

DATASHEET

Technical Specifications – AXIS Q6042 PTZ Dome Network Camera

Models	AXIS Q6042 50 Hz, AXIS Q6042 60 Hz
Camera	
Image sensor	1/4" ExView HAD progressive scan CCD
Lens	f=3.3 - 119 mm, F1.4 - 4.2, autofocus Horizontal angle of view: 57.2° - 1.7°
Day and night	Automatically removable infrared-cut filter
Minimum illumination	Color: 0.5 lux at 30 IRE F1.4 B/W: 0.008 lux at 30 IRE F1.4
Shutter time	1/30000 s to 1.5 s (50 Hz),1/30000 s to 0.5 s (60 Hz)
Pan/Tilt/Zoom	Pan: 360° endless, 0.05° – 450°/s Tilt: 180°, 0.05° – 450°/s 36x optical zoom and 12x digital zoom, total 432x zoom E-flip, 256 presets, Tour recording, Guard tour, Control queue, On-screen directional indicator
Video	
Video compression	H.264 Main and Baseline Profiles (MPEG-4 Part 10/AVC) Motion JPEG
Resolutions	Extended D1 736x576 to 176x144 (50 Hz) Extended D1 752x480 to 176x120 (60 Hz)
Frame rate	H.264: Up to 25/30 fps (50/60 Hz) in all resolutions Motion JPEG: Up to 25/30 fps (50/60 Hz) in all resolutions
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG Controllable frame rate and bandwidth; VBR/CBR H.264
Image settings	Wide dynamic range (WDR), Electronic image stabilization, Manual shutter time, Compression, Color, Brightness, Sharpness, White balance, Exposure control, Exposure zones, Backlight compensation, Fine tuning of behavior at low light, Rotation, Text and image overlay, 32 individual 3D privacy masks, Image freeze on PTZ
Audio	
Audio streaming	Two-way
Audio compression	AAC-LC 8/16 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz Configurable bit rate
Audio input/output	Requires multi-connector cable (sold separately) for external microphone or line input, and line output
Network	
Security	Password protection, IP address filtering, HTTPS ^a encryption, IEEE 802.1X ^a network access control, Digest authentication, User access log
Supported protocols	IPv4/v6, HTTP, HTTPS ^a , SSL/TLS ^a , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP TM , SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS
System integratio	n
Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at www.axis.com AXIS Video Hosting System (AVHS) with One-Click Camera Connection ONVIF Profile S; specifications at www.onvif.org

Dimensions		
1. Hard-ceiling mount		2
2. Drop-ceiling mount	240 mm (3.4') 221 mm (3.7') (3.4') 8.6.1 mm (3.7')	243 mm (9.8")

Intelligent video	Video motion detection, Autotracking, Active Gatekeeper, AXIS Camera Application Platform enabling installation of additional applications
Event triggers	Video motion detection, Audio detection, Shock detection, Fan, External input, Manual trigger, Autotracking, PTZ moving, PTZ preset, Edge storage events, AXIS Camera Application Platform
Event actions	File upload: FTP, HTTP, network share and email Notification: email, HTTP and TCP External output, PTZ preset, Guard tour, Play audio clip, Video and audio recording to edge storage, Autotracking, Day/night mode, Pre- and post-alarm video buffering
Built-in installation aids	Pixel counter
General	
Casing	IP52-rated metal casing (aluminum), acrylic (PMMA) clear dome
Memory	512 MB RAM, 128 MB Flash
Power	Power over Ethernet Plus (PoE+) IEEE 802.3at, max. 30 W AXIS T8123 High PoE midspan 1-port: 100-240 V AC, max. 37 W 24-34 V DC, max. 19 W; 20-24 V AC, max. 27 VA
Connectors	RJ45 for 10BASE-T/100BASE-TX PoE Multi-connector (cable sold separately) for AC/DC power, 4 configurable alarm inputs/outputs, mic in, line mono input, line mono output to active speaker
Edge storage	SD/SDHC/SDXC slot supporting memory card up to 64 GB (card not included); support for recording to dedicated network-attached storage (NAS)
Operating conditions	0 °C to 50 °C (32 °F to 122 °F) Humidity 10–85% RH (non-condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)
Approvals	EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, EN 55024, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, C-tick AS/NZS CISPR 22 Class A, KCC KN22 Class A, KN24, IEC/EN/UL 60950-1, IEC/EN 60529 IP52, IEC 60721-4-3 Class 3K3, 3M3, IEC 60068-2 Midspan: EN 60950-1, GS, UL, cUL, CE, VCCI, CB, KCC, UL-AR
Weight	Camera: 2.6 kg (5.7 lb.); with drop-ceiling mount: 3.2 kg (7.1 lb.)
Included accessories	AXIS T8123 High PoE Midspan 1-port, Mounting kit for hard and drop ceilings, Smoked dome cover, Installation Guide, Installation and Management Software CD, Windows decoder 1-user license
Video management software	AXIS Camera Companion (included), AXIS Camera Station and video management software from Axis' Application Development Partners (not included)
Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see www.axis.com/warranty

a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (www.openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).

More information is available at www.axis.com



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AXIS T8123 High PoE 30 W Midspan 1–port

High Power over Ethernet for indoor installations.



- > Reduced installation costs
- > IEEE 802.3at and IEEE 802.3af compliance
- > Plug-and-play installation
- > Support for Axis PTZ dome network cameras

Axis T8123 midspan offer an easy, fast and cost-effective solution for powering network video products, without the need to install power outlets and electrical cabling.

AXIS T8123 midspan connects are connected to the mains power, transforming the power and inject it into the network cable enabling Axis network video products to receive data and power over the same Ethernet cable.

AXIS T8123 is an High PoE product, which makes it easier to install network video products in areas where power cabling and outlets are unavailable, thereby reducing installation costs. This midspan is used to power all network devices that are IEEE 802.3af or at compliant, meaning that it can be used with all Axis network video products with built-in PoE support.

Technical Specifications – AXIS T8123 High PoE 30 W Midspan 1-port

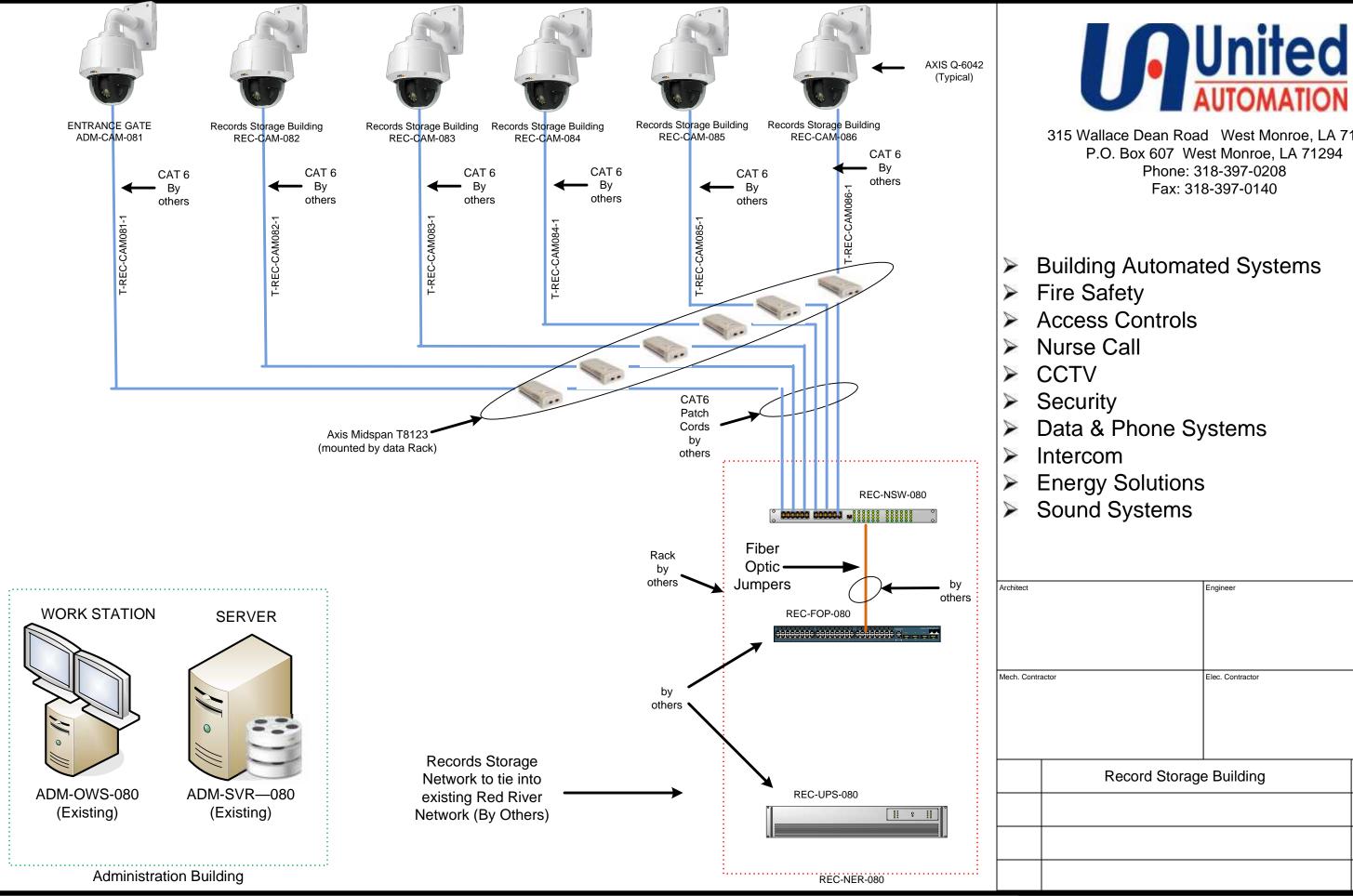
Midspan	
Model	AXIS T8123 High PoE 30 W Midspan 1-port
Function	Data and power are fed to a network video product through an Ethernet cable; use together with a High PoE splitter for a network video product without built-in PoE support
Data rate	10/100/1000 Mbps
Data & Power	
Connectors	Shielded RJ45, EIA 568A and 568B
Network cables	Shielded category 5 (or higher)
Wiring	Data provided over pairs 1/2 and 3/6 for 10/100 Ethernet, over all four pairs for Gigabit Ethernet Power over spare pairs 4/5 (+) and 7/8 (-)
Output power	55 V DC (max. 30 W)
Input power	AC Input Voltage: 100 to 240 V AC (max. 37 W) AC Frequency: 50 - 60 Hz
Installation and management	Plug-and-play installation; automatically detects PoE and High PoE-enabled devices and supplies inline power Local LED management display

General	
Display and indicators	Port interfaces are located on the front panel System indicator: AC power Channel indicator: Power For more information, see www.axis.com/techsup
Compliance	RoHS, WEEE, CE, IEEE 802.3af, IEEE 802.3at
Mounting	Wall or shelf mounting
Approvals	FCC Part 15, Class B with FTP cabling, EN 55022 Class B, EN 55024, VCCI, CB, UL/cUL per EN 60950-1, GS Mark per EN 60950-1, KCC, UL-AR
Operative conditions	-10 °C to 55 °C (14 °F to 131 °F) Humidity max. 95% RH (non-condensing)
Storage	-20 °C to 70 °C (-4 °F to 158 °F)
Dimension	51 x 88 x 166 mm (2 x 3.5 x 6.5 in)
Environment	Indoor
Weight	350 g (0.7 lb)

More information is available at www.axis.com and on products' Installation Guide

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315 Wallace Dean Road West Monroe, LA 71291

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	Engineer		
	Elec. Contractor		
Pocord Storag	- Ruilding	4/00/45	
Record Storage	Bulluliy	4/30/15	JU

BILL OF MATERIAL

ITEM	QTY	TAG	MFG	CATALOG	DESCRIPTION	ITEM	QTY	TAG	MFG	CATALOG
1	TBD	N/A	CORNING	Ø12K8F-3113Ø-29	FIBER OPTIC CABLE, 12 FIBER, 62.5UM MULTIMODE, TIGHT-BUFFERED, FLAME-RETARDANT, INDOOR/OUTDOOR	57				
2	TBD		CORNING	95-000-50	FIBER CONNECTOR, ST COMPATIBLE MULTI-MODE UNICAM, FOR 62.5UM FIBER WITH CERAMIC FERRULE	58	5	ADM-NSW-Ø6Ø	HIRSCHMANN	M-SFP-SX/LC
3						59				
4						6Ø	1	ADM-NSW-Ø8Ø	PROVIDED BY OTHERS	TBD
5						61				
6	TBD	N/A	CORNING	ØØ6K8F-3113Ø-29	FIBER OPTIC CABLE, 6 FIBER, 62.5UM MULTIMODE, TIGHT-BUFFERED, FLAME-RETARDANT, INDOOR/OUTDOOR	62	1		QUIKTRON	FOAS2FLCST-2M
7	TBD		CORNING	95-000-50	FIBER CONNECTOR, ST COMPATIBLE MULTI-MODE UNICAM, FOR 62.5UM FIBER WITH CERAMIC FERRULE	63				
8						64				
9						65				
1Ø						66				
11	1	N/A	DELL	M66ØØ	LAPTOP, MOBILE WORKSTATION, WINDOWS 7 64 BIT, QUAD CORE 2.70 GHZ 8MB CACHE, 8GB RAM, 2GB GRAPHICS	67				
12					CARD, 17.3" WIDE SCREEN, 256GB SATA3 SSD, 8X DVD/RW, 3-YEAR BASIC HARDWARE SERVICE W/NBD LIMITED	68	1	ADM-NER-Ø72	BLACK BOX	EC42U3Ø42SMDS1NK
13					ONSITE SERVICE AFTER REMOTE DIAGNOSIS, WIRELESS, INCLUDES MICROSOFT OFFICE 2010 PROFESSIONAL AND	69				
14					ADOBE ACROBAT X, INCLUDES LAPTOP CARRYING CASE, MICROSOFT SECURITY ESSENTIALS TO BE	7Ø				
15					DOWNLOADED AT TIME OF PURCHASE	71				
16	1		WONDERWARE	Ø1-2624	INTOUCH FOR SYSPLATFORM 2012 W/O HISTCLIENT	72	1		BLACK BOX	RM4Ø8
17	1		E&H	SFE5ØØ-16WØ/Ø	FIELD CARE, 32 DEVICES	73	2		BLACK BOX	PS182A-R2
18	1		E&H	FXA195-P1	COMMUNICATION BOX, CONVERTS HART PROTOCOLS TO USB SIGNALS	74	1		HOFFMAN	PGK
19	6	SPB-OWS-Ø6Ø	DELL	T36ØØ	WORKSTATION, PRECISION, WINDOWS 7 64 BIT, QUAD CORE 3.0 GHZ 10MB CACHE, 8GB RAM, 512MB GRAPHICS	75				
2Ø		ELC-OWS-Ø6Ø	bee	10000	CARD DUAL MONITORS, 500GB 7200 RPM HD, 8X DVD/RW, 425W POWER SUPPLY, INTERNAL MEDIA READER,	76	1		TRIPP-LITE	BØ2Ø-UØ8-19-K
21		RWPS-OWS-Ø6Ø			DUAL PORT 10GB NETWORK ADAPTER, 3 YEAR 24X7 PROSUPPORT AND NBD ON-SITE SERVICE	77	1		LaCIE	9000316
22		ADM-OWS-Ø61			AFTER REMOTE DIAGNOSIS, INCLUDES MICROSOFT OFFICE 2010 PROFESSIONAL AND ADOBE ACROBAT X,	78	1		BLACK BOX	RM4Ø3
23		ADM-OWS-Ø62			MICROSOFT SECURITY ESSENTIALS TO BE DOWNLOADED AT TIME OF PURCHASE, MOUSE, KEYBOARD	79	1	ADM-SRV-Ø61	DELL	R72Øxd
		ADM OWS 002 ADM-OWS-080			MICROSOFT SECONTIT ESSENTIALS TO BE DOMINEONDED AT TIME OF TORGIASE, MOUSE, RETURNED				DELL	1172040
24 25	12	ADM-0W3-000	DELL	P2412H	MONITOR, 24" WIDESCREEN, LED BACKLIT, 1920 X 1080 RESOLUTION, 1000:1 CONTRAST RATIO	8Ø 81				
	6		KANTEK	CS200B	CPU STAND, LOCKABLE CASTERS					
26	5		WONDERWARE	Ø1-2624	INTOUCH FOR SYSPLATFORM 2012 W/O HISTCLIENT, INSTALLED ON ALL EXCEPT ADM-OWS-080	82 83	1	ADM-SRV-Ø62	DELL	R72Øxd
27	1		SYTECH	XL1SM	XLREPORTER, SUITE EDITION, STANDARD, SINGLE STATION, REPORTING FROM A REAL TIME AND ANALYTIC DATA,	84		ADM-3RV-902	DELL	172000
28			STIEGH	ALISM	HISTORICAL SERVER, WEB PUBLISHING AND 1 YEAR OF TECHNICAL SUPPORT & FREE PRODUCT UPGRADES,					
29						85				
30	<u>,</u>		ACRONIS		INSTALLED ON ADM-OWS-061	86	1		DELL	D7084
31	6		ACRONIS	BACKUP SOFTWARE	ACRONIS BACKUP & RECOVERY(R) 11.5 FOR ADVANCED WORKSTATION, INSTALLED ON ALL WORKSTATIONS	87	1	ADM-SRV-Ø63	DELL	R72Øxd
32						88				
33	F	CDC OWC 944		77000		89				
34	5	SRS-OWS-800	DELL	T36ØØ	WORKSTATION, PRECISION, WINDOWS 7 64 BIT, QUAD CORE 3.0 GHZ 10MB CACHE, 8GB RAM, 512MB GRAPHICS	90				
35		ADM-OWS-Ø63			CARD DUAL MONITORS, 500GB 7200 RPM HD, 8X DVD/RW, 425W POWER SUPPLY, INTERNAL MEDIA READER,	91	1	ADM-SRV-Ø8Ø	PROVIDED BY OTHERS	TBD
36		ADM-OWS-Ø64			DUAL PORT 100B NETWORK ADAPTER, 3 YEAR 24X7 PROSUPPORT AND NBD ON-SITE SERVICE	92				
37		CITY NETWORK			AFTER REMOTE DIAGNOSIS, INCLUDES MICROSOFT OFFICE 2010 PROFESSIONAL AND ADOBE ACROBAT X, MICROSOFT SECURITY ESSENTIALS TO BE DOWNLOADED AT TIME OF PURCHASE, MOUSE, KEYBOARD	93				
38	F	CITY NETWORK		D0.410U		94	7		NIODOCOFT	055105
39	5		DELL	P2412H	MONITOR, 24" WIDESCREEN, LED BACKLIT, 1920 X 1080 RESOLUTION, 1000:1 CONTRAST RATIO	95	3		MICROSOFT	OFFICE
40	5		KANTEK	CS2ØØB	CPU STAND, LOCKABLE CASTERS	96			ADOBE	ACROBAT
41	2 5		WONDERWARE	Ø1-2624	INTOUCH FOR SYSPLATFORM 2012 W/O HISTCLIENT, INSTALLED ON ADM-OWS-063 & ADM-OWS-064	97	4		ACRONIS	BACKUP SOFTWARE
42	Э		ACRONIS	BACKUP SOFTWARE	ACRONIS BACKUP & RECOVERY(R) 11.5 FOR ADVANCED WORKSTATION, INSTALLED ON ALL WORKSTATIONS	98	1		WONDERWARE	SP-325ØA
43				50 101177 1001/00111/		99				
44	1		BLACK BOX	EC42U3Ø42SMDS1NK	NETWORK RACK ENCLOSURE, 42U,79" H X 30" W X 42" D, 2000LB. LOAD CAPACITY, M6 RAILS W/SQUARE HOLES,	100				
45					MESH FRONT DOOR, SPLIT MESH BACK DOOR, SOLID SIDE DOORS, 1 10" FAN 550 CFM W/8' CORD & NEMA	1Ø1	1		WONDERWARE	97-1259T
46					5-15 PLUG CONNECTOR & 110VAC, KEYED LOCK, COMES W/LEG LEVELERS AND CASTERS, UNIVERSAL	1Ø2	1		WONDERWARE	17–1131
47					MOUNTING HOLES ALLOW FOR REVERSING DOOR, BLACK, INCLUDES GROUND LUG, 50 CAGE NUTS & SCREWS	1Ø3	1		WONDERWARE	17-0238
48	1		BLACK BOX	RM4Ø8	CAGE NUTS AND SCREWS, PACKAGE OF 20, M6	1Ø4	2		KEP	41233192-EX-15C15DUT
49	2		BLACK BOX	PS182A-R2	POWER STRIP, VERTICAL, 8-OUTLETS, 15A, 120 VAC, INCLUDES MOUNTING HARDWARE	1Ø5				
5Ø	1		HOFFMAN	PGK	GROUND KIT, INCLUDES 6 16" LONG 12-GAUGE WIRES W/RING TERMINATIONS AND M6 MOUNTING HARDWARE	1Ø6				
51	7		BLACK BOX	378Ø3-R2	HORIZONTAL CABLE MANAGEMENT, 1U, 5 1.25" X 4" RINGS	1Ø7				
52	1	ADM-FOP-Ø6Ø	CORNING	CCH-Ø1U	FIBER PATCH PANEL Ø1U, HOLDS 2 CCH CONNECTOR PANELS	1Ø8	3		WONDERWARE	STDS-Ø19
53	1	ADM-FOP-Ø7Ø	CORNING	CCH-Ø3U	FIBER PATCH PANEL, 3U, HOLDS 6 CCH CONNECTOR PANELS, 133MM H X 483MM W X 430MM D	1Ø9				
54	8		CORNING	CCH-CP12-15T	CCH CONNECTOR PANEL, ST COMPATIBLE MULTIMODE, FOR 62.5UM FIBER W/CERAMIC FERRULE	11Ø	1	ADM-CPP-Ø7Ø	BLACK BOX	JPM612A-R7
55	1	ADM-CPP-Ø6Ø	BLACK BOX	JPM612A-R7	COPPER PATCH PANEL, CAT6, 48-PORT, 2U	111	1	ADM-CPP-Ø7Ø	BLACK BOX	JPM61ØA-R7
56	1	ADM-NSW-Ø6Ø	HIRSCHMANN	MACH1Ø4-2ØTX-FR	24 PORTS - 20 GIGABIT ETHERNET COPPER & 4 GIGABIT ETHERNET COMBO PORTS,	112	1	ADM-NSW-Ø7Ø	OWNER PROVIDED	TBD
					W/REDUNDANT POWER SUPPLIES, IRU, IP BASE FEATURE SET		_			

E	Ø5/13/15	CHANGE ORDER	YNB	MLC	NOTICE:	C	ITY OF BOSSIER	CITY,	LOUISIANA
D	Ø2/19/15	FIELD REVISIONS	YNB	GWG	THE DOCUMENT AND INFORMATION CONTAINED		WASTEWATER SYST	ГЕМ ІМР	ROVEMENTS
С	Ø1/24/14	PER ENGINEER'S COMMENTS	YNB	MLC	HEREIN IS PROPRIETARY TO REVERE CONTROL SYSTEMS, INC.	RED RIVER	WWTP EXPANSION	AND REH	ABILITATION PRO
в	Ø7/Ø1/13	PER ENGINEER'S COMMENTS	MLB	JWO	AND SHOULD NOT BE USED, COPIED OR DISCLOSED TO		BILL OF	MATERI	AL
А	12/26/12	DESIGN	MLB	JWO	OTHERS, EXCEPT AS SPECIFICALLY AUTHORIZED IN	DRAWN BY:	MLB	DATE:	12/26/12
REV	DATE	DESCRIPTION	BY	APPV	WRITING BY REVERE CONTROL SYSTEMS, INC.	CHECKED BY	: JMO	SCALE:	NTS

DESCRIPTION

GIGABIT ETHERNET SFP, MULTIMODE FIBER w/LC CONNECTOR SX TRANSCEIVER

GIGABIT NETWORK SWITCH TX/FX

FIBER JUMPER, LC-ST, 2M

NETWORK RACK ENCLOSURE, 42U,79" H X 30" W X 42" D, 2000Hb. LOAD CAPACITY, MG RAILS w/SQUARE HOLES, MESH FRONT DOOR, SPLIT MESH BACK DOOR, SOLID SIDE DOORS, 1 10" FAN 550 CFM w/8' CORD & NEMA 5-15 PLUG CONNECTOR & 110VAC, KEYED LOCK, COMES w/LEG LEVELERS AND CASTERS, UNIVERSAL MOUNTING HOLES ALLOW FOR REVERSING DOOR, BLACK, INCLUDES GROUND LUG, 50 CAGE NUTS & SCREWS CAGE NUTS AND SCREWS, PACKAGE OF 20, MG

POWER STRIP, VERTICAL, 8-OUTLETS, 15A, 120 VAC, INCLUDES MOUNTING HARDWARE GROUND KIT, INCLUDES 6 16" LONG 12-GAUGE WIRES w/RING TERMINATIONS AND M6 MOUNTING HARDWARE

CONSOLE KVM SWITCH, 1RU, w/19" LCD + 8 PS2/USB COMBO CABLES, 1280 X 1024 RESOLUTION, 120V, 1A EXTERNAL HARD DRIVES, 4TB, RAID0+1, USB 3.0, 7200 RPM

FIXED VENTED SERVER SHELF, FOR EXTERNAL HD'S

I/O PRIMARY SERVER, POWEREDGE, WINDOWS SERVER 2008 R2 SP1 STANDARD 64 BIT, 6 CORE 2.90 GHz 15MB CACHE, 32GB RAM, 3 500GB 7.2K RPM SATA HARD DRIVES RAID 5 CONFIGURED, DUAL REDUNDANT 495W POWER SUPPLIES, 2 NETWORK ADAPTERS, READY RAILS w/CABLE MANAGEMENT, BEZEL, 3 YEAR 24X7 PROSUPPORT AND NBD ON-SITE SERVICE

I/O BACKUP SERVER, POWEREDGE, WINDOWS SERVER 2008 R2 SPI STANDARD 64 BIT, 6 CORE 2.90 GHz 15MB CACHE, 32GB RAM, 3 500GB 7.2K RPM SATA HARD DRIVES RAID 5 CONFIGURED, DUAL REDUNDANT 495W POWER SUPPLIES, 2 NETWORK ADAPTERS, READY RAILS w/CABLE MANAGEMENT, BEZEL, 3 YEAR 24X7 PROSUPPORT AND NBD ON-SITE SERVICE

DEVELOPMENT, HISTORIAN, GALAXY REPOSITORY SERVER, POWEREDGE, WINDOWS SERVER 2008 R2 SP1 STANDARD 64 BIT, 6 CORE 2.90 GHz 15MB CACHE, 32GB RAM, 3 500GB 7.2K RPM SATA HARD DRIVES RAID 5 CONFIGURED, DUAL REDUNDANT 495W POWER SUPPLIES, 2 NETWORK ADAPTERS, READY RAILS w/CABLE MANAGEMENT, BEZEL, 3 YEAR 24X7 PROSUPPORT AND NBD ON-SITE SERVICE SECURITY SYSTEM SERVER

PROFESSIONAL, LATEST EDITION, INSTALLED ON ALL 4 SERVERS, SECURITY SERVER SOFTWARE BY OTHERS STANDARD, LATEST EDITION, INSTALLED ON BACKUP SERVER ONLY (ADM-SRV-062) BACKUP & RECOVERY 11.5 ADVANCED SERVER FOR WINDOWS, INSTALLED ON ALL SERVERS SYSTEM PLATFORM 2012, INCLUDES HISTORIAN INSTALLED ON ADM-SRV-063, 4 APPLICATION SERVER PLATFORMS INSTALLED ON ADM-SRV-063, 2 DEVICE INTEGRATION SERVERS ONE EACH INSTALLED ON ADM-SRV-061 & ADM-SRV-062 DEVELOPMENT STUDIO 2012 LARGE 5K/3K/500 TSE INSTALLED ON ADM-SRV-063 WW HISTORIAN CLIENT PER SERVER CONCURRENT, 5 USERS, V10.0 INSTALLED ON ADM-SRV-063 WW BASIC CAL w/MS CAL, 5 PACK, v2008 INSTALLED ON ADM-SRV-063 KEPWARE KEPSERVEREX ONE EACH INSTALLED ON ADM-SRV-061 & ADM-SRV-062

WONDERWARE CUSTOMER FIRST SUPPORT-STANDARD LEVEL-ONE, INCLUDES TECHNICAL SUPPORT AND VERSION UPGRADES FOR THE ABOVE LICENSES ONLY (NOTE: THIS SUPPORT COVERS THE LICENSING AT BOTH PLANTS) COPPER PATCH PANEL, CAT6, 48-PORT, 2U COPPER PATCH PANEL, CAT6, 24-PORT, 1U NETWORK SWITCH



ROJECT FILES\2012\N057500\DRAWINGS.REO\RR-NETWORK\101.D

BILL OF MATERIAL

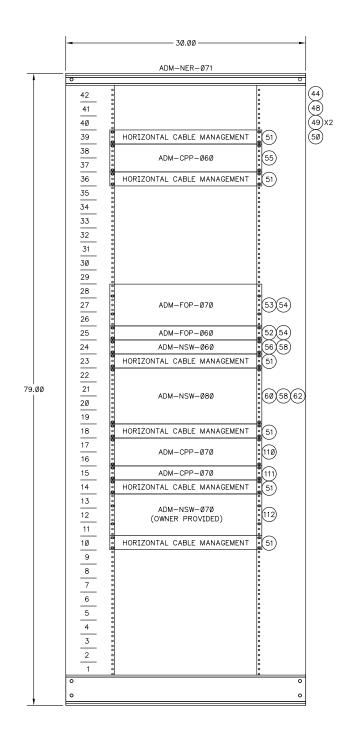
ITEM	QTY	TAG	MFG	CATALOG	DESCRIPTION
113	2	ELC-UPS-Ø5Ø,	EATON	Ø66ØCØ9ØAAAAAAAI	UPS, 9170+ SERIES, 9-SLOT ENCLOSURE, HARDWIRE INPUT/OUTPUT
114	4	SPB-UPS-Ø5Ø	EATON	ASY-Ø673	SPLIT PHASE POWER MODULE, 3kVA/2.5kW FOR POWERWARE 9170+ UPS
115	8		EATON	ASY-Ø529	POWERWARE BATTERY MODULE
116	2		EATON	11675Ø222-ØØ1	CONNECTUPS-BD SNMP NETWORK CARD
117	2		EATON	BPE2ØMBB1A	MAINTENANCE BYPASS SWITCH, MAKE-BEFORE-BREAK, EXTERNAL, 125AMP
118					
119					
12Ø					
121	1	RWPS-UPS-Ø5Ø	EATON	Ø66ØCØ9ØAAAAAAAI	UPS, 9170+ SERIES, 9-SLOT ENCLOSURE, HARDWIRE INPUT/OUTPUT
122	1		EATON	ASY-Ø673	SPLIT PHASE POWER MODULE, 3kVA/2.5kW FOR POWERWARE 9170+ UPS
123	2		EATON	ASY-Ø529	POWERWARE BATTERY MODULE
124	1		EATON	11675Ø222-ØØ1	CONNECTUPS-BD SNMP NETWORK CARD
125	1		EATON	BPE2ØMBB1A	MAINTENANCE BYPASS SWITCH, MAKE-BEFORE-BREAK, EXTERNAL, 125AMP
126					
127					
128					
129	1	ADM-UPS-Ø5Ø	EATON	Ø66ØC12ØAAAAAAAI	UPS, 9170+ SERIES, 12-SLOT ENCLOSURE, HARDWIRE INPUT/OUTPUT
130	3		EATON	ASY-Ø673	SPLIT PHASE POWER MODULE, 3kVA/2.5kW FOR POWERWARE 9170+ UPS
131	6		EATON	ASY-Ø529	POWERWARE BATTERY MODULE
132	1		EATON	11675Ø222-ØØ1	CONNECTUPS-BD SNMP NETWORK CARD
133	1		EATON	BPE2ØMBB1A	MAINTENANCE BYPASS SWITCH, MAKE-BEFORE-BREAK, EXTERNAL, 125AMP
134					
135					
136					
137	3	CITY NETWORK	BROTHER	MFC-871ØDW	LASERJET PRINTER, MULTI-FUNCTION, 40PPM PRINT SPEED, 1200 X 1200 dpi PRINT RESOLUTION, 64MB MEMORY,
138		CITY NETWORK			WIRELESS 802.11b/g/n, ETHERNET, USB 2.0, 8.5" X 14" DOCUMENT GLASS, 33.6K bps FAX MODEM,
139		ADM-PRINT-Ø6Ø			COLOR SCANNER, WINDOWS 7 COMPATIBLE
14Ø	6		BROTHER	TN-72Ø	STANDARD YIELD TONER (APPROX. 3,000 PAGES)
141	6		ANY	PAPER	1000 SHEET REAM OF 8-1/2" X 11", 24H, LASER PRINTING PAPER
142	1	REC-NER-Ø8Ø	HOFFMAN	EWMW482425	19" RACK WALL MOUNT SERVER RACK
143	1	REC-FOP-Ø8Ø	CORNING	CCH-Ø1U	19" RACK MOUNT FIBER CONNECTOR PANEL, HOLDS 2 CCH CONNECTOR PANELS, 1U
144	1		CORNING	CCH-CP12-15TCCH	CONNECTOR PANEL, MULTIMODE, ST, 62.5uM, CERAMIC FERRULE, 12 FIBER CONNECTIONS
145	1	REC-UPS-Ø8Ø	EATON	PW913ØL7ØØR-XL2U	700VA RACK MOUNT UPS, 2U
146	3		BLACK BOX	378Ø3-R2	HORIZONTAL CABLE MANAGEMENT, 1U

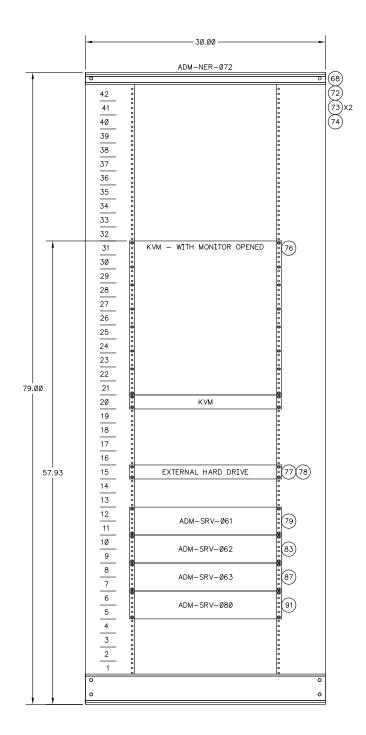
E	Ø5/13/15	CHANGE ORDER	YNB	MLC	NOTICE:	CII	Y OF BOSSIER	CITY, L	OUISIANA
D	Ø2/19/15	FIELD REVISIONS	YNB	GWG	THE DOCUMENT AND INFORMATION CONTAINED	WA	STEWATER SYST	EM IMPR	OVEMENTS
С	Ø1/24/14	PER ENGINEER'S COMMENTS	YNB	MLC	HEREIN IS PROPRIETARY TO REVERE CONTROL SYSTEMS, INC.	RED RIVER V	WTP EXPANSION	AND REHA	BILITATION PR
В	Ø7/Ø1/13	PER ENGINEER'S COMMENTS	MLB	JWO	AND SHOULD NOT BE USED, COPIED OR DISCLOSED TO		BILL OF	MATERIAL	-
А	12/26/12	DESIGN	MLB	JWO		DRAWN BY:	MLB	DATE:	12/26/12
REV	DATE	DESCRIPTION	BY	APPV	WRITING BY REVERE CONTROL SYSTEMS, INC.	CHECKED BY:	JWO	SCALE:	NTS



2240 ROCKY RIDGE ROAD BIRMINGHAM, AL 35216 PHONE: (205) 824-0004

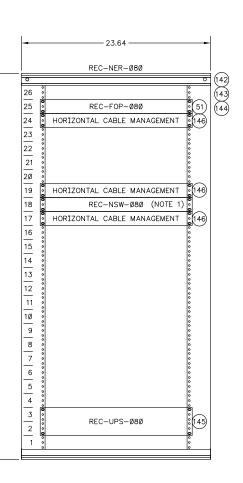
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-			FIELD REVISIONS	YNB	GWG	INFORMATION CONTAINED HEREIN IS PROPRIETARY TO		STEWATER SYS		
	С	, ,	PER ENGINEER'S COMMENTS	YNB	MLC	REVERE CONTROL SYSTEMS, INC. AND SHOULD NOT BE USED, COPIED OR DISCLOSED TO OTHERS, EXCEPT AS	RED KIVER WW			
IERS.	В	07/01/13	PER ENGINEER'S COMMENTS	MLB	JWO			NETWORK R		OUT
	А	12/26/12	DESIGN	MLB	JWO	SPECIFICALLY AUTHORIZED IN	DRAWN BY:	MLB	DATE:	12/26/12
	REV	DATE	DESCRIPTION	BY	APPV	WRITING BY REVERE CONTROL SYSTEMS, INC.	CHECKED BY:	JWO	SCALE:	NTS

<103.DWG
RR-NETWORK
DRAWINGS.REO\R
\NØ575ØØ\
2012
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\PROJECT

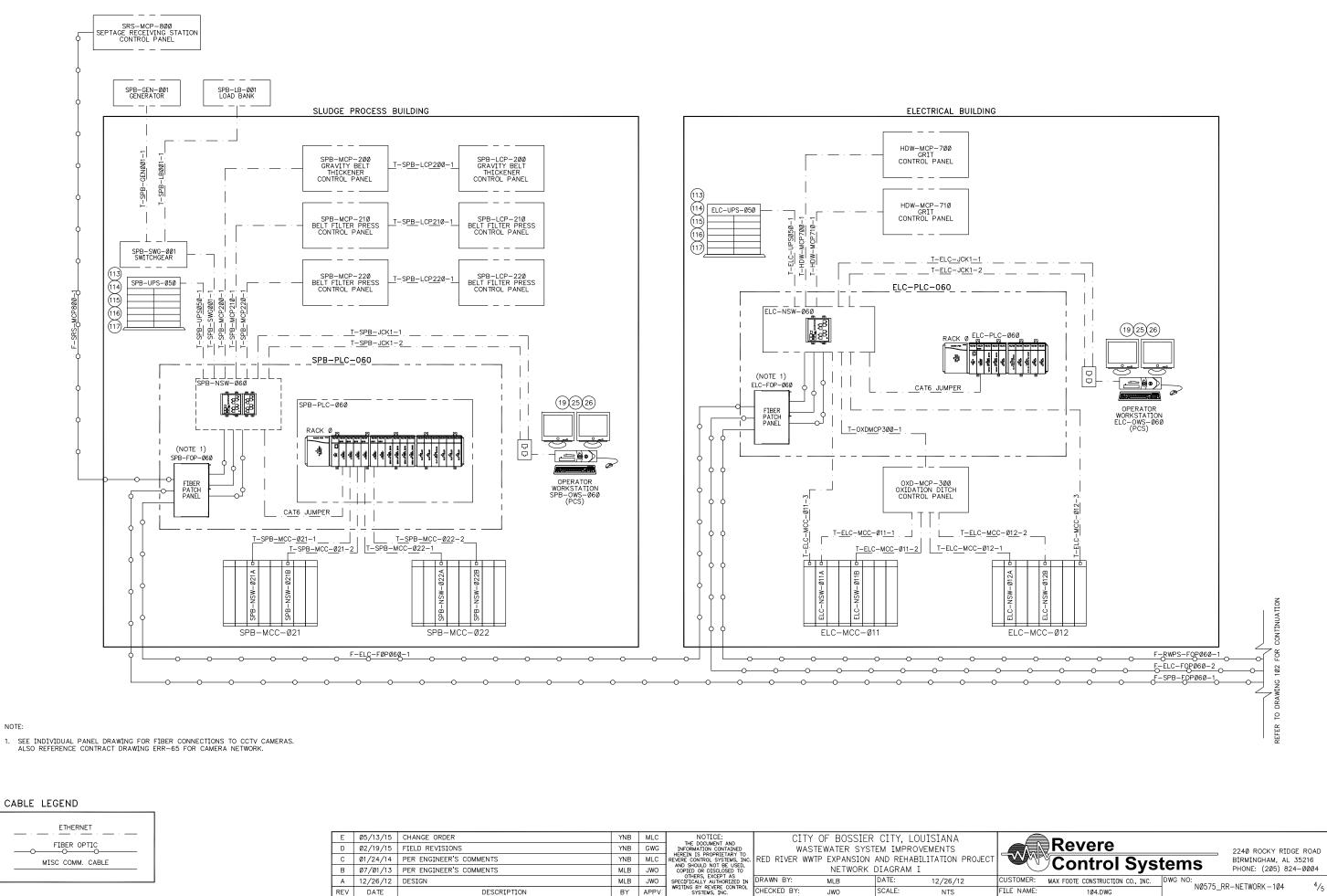


48.ØØ

Revere Control Systems DJECT CUSTOMER: MAX FOOTE CONSTRUCTION CO., INC. DWG NO: NØ575_RR-NETWORK-1Ø3 FILE NAME: 1Ø3.DWG

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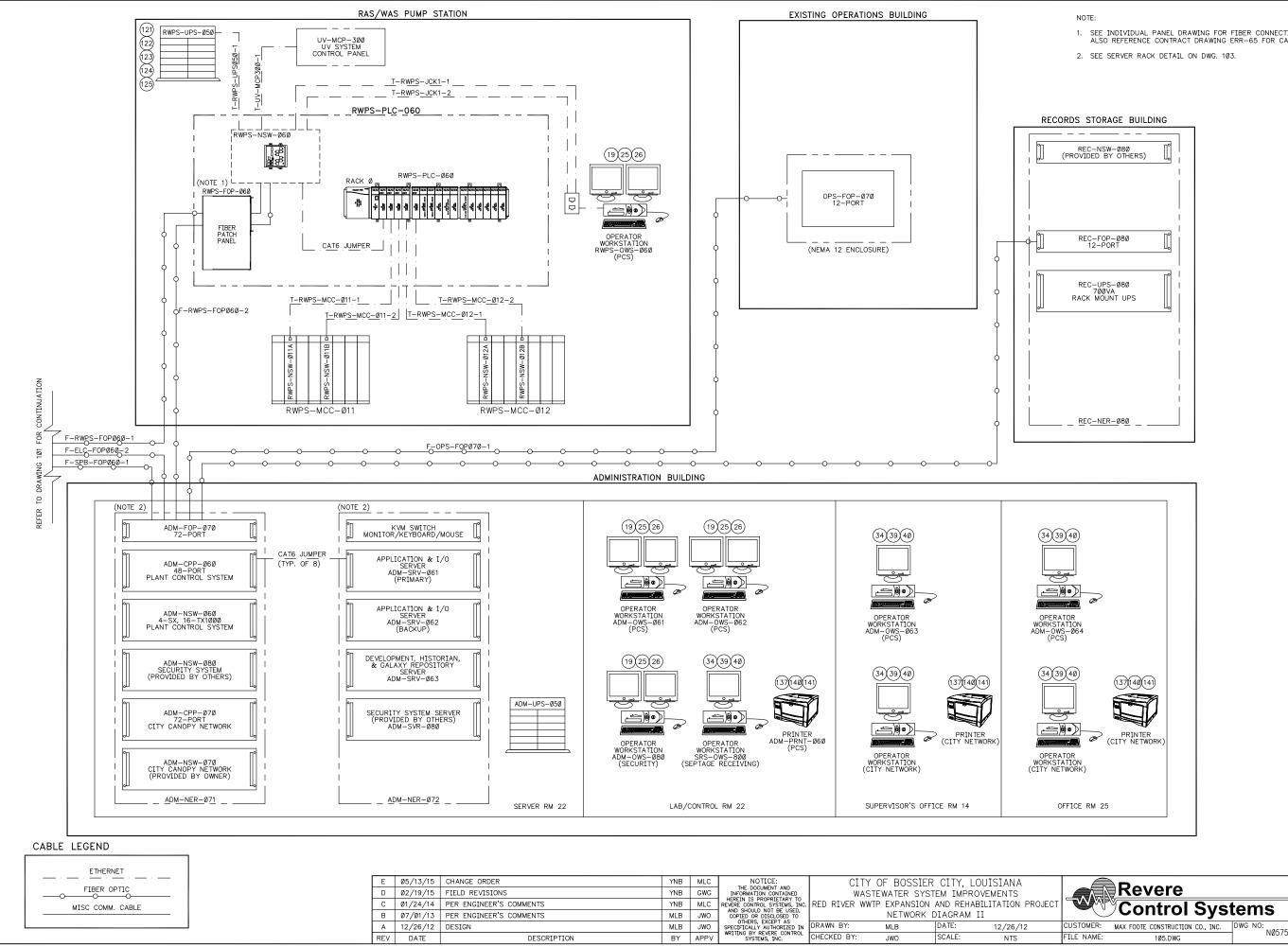




NOTE:

CABLE LEGEND

ETHERNET	_										
		Е	Ø5/13/15	CHANGE ORDER	YNB	MLC	NOTICE:	CI	TY OF BOSSIER	CITY, LO	DUISIANA
		D	Ø2/19/15	FIELD REVISIONS	YNB	GWG	THE DOCUMENT AND INFORMATION CONTAINED	W.	ASTEWATER SYST	EM IMPRC	VEMENTS
MISC COMM, CABLE		С	Ø1/24/14	PER ENGINEER'S COMMENTS	YNB	MLC	HEREIN IS PROPRIETARY TO REVERE CONTROL SYSTEMS, INC.	RED RIVER '	WWTP EXPANSION	AND REHAE	ILITATION PROJE
		В	Ø7/Ø1/13	PER ENGINEER'S COMMENTS	MLB	JWO	AND SHOULD NOT BE USED, COPIED OR DISCLOSED TO		NETWORK	DIAGRAM	I
		А	12/26/12	DESIGN	MLB	JWO	OTHERS, EXCEPT AS SPECIFICALLY AUTHORIZED IN		MLB	DATE:	12/26/12
		REV	DATE	DESCRIPTION	BY	APPV	WRITING BY REVERE CONTROL SYSTEMS, INC.	CHECKED BY:	JWO	SCALE:	NTS



MLB JWO

BY APPV

A 12/26/12 DESIGN

DESCRIPTION

REV DATE

DRAWN BY

CHECKED BY:

DATE:

SCALE:

MLB

JWO

12/26/12

NTS

- 1. SEE INDIVIDUAL PANEL DRAWING FOR FIBER CONNECTIONS TO CCTV CAMERAS. ALSO REFERENCE CONTRACT DRAWING ERR-65 FOR CAMERA NETWORK.

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RED RIVER WASTEWATER TREATMENT PLANT CITY OF BOSSIER CITY, LOUISIANA SLUDGE PROCESS BUILDING CONTROL PANEL

DRAWING NO.	DRAWING DESCRIPTION
1Ø1	TITLE SHEET
2Ø1	BILL OF MATERIAL
2Ø2	ENCLOSURE LAYOUT
2Ø3	SUBPANEL LAYOUT
2Ø4	TERMINAL BLOCK DETAIL
2Ø5	TERMINAL BLOCK DETAIL
3Ø1	COMMUNICATION DIAGRAM
4Ø1	120VAC POWER DISTRIBUTION
4Ø2	POWER DISTRIBUTION
5Ø1	DIGITAL INPUT MODULE WIRING DIAGRAM
5Ø2	DIGITAL INPUT MODULE WIRING DIAGRAM
5Ø3	DIGITAL INPUT MODULE WIRING DIAGRAM
5Ø4	DIGITAL INPUT MODULE WIRING DIAGRAM
5Ø7	DIGITAL OUTPUT MODULE WIRING DIAGRAM
511	ANALOG INPUT MODULE WIRING DIAGRAM
512	ANALOG INPUT MODULE WIRING DIAGRAM
513	ANALOG INPUT MODULE WIRING DIAGRAM
514	ANALOG INPUT MODULE WIRING DIAGRAM
515	ANALOG INPUT MODULE WIRING DIAGRAM
516	ANALOG INPUT MODULE WIRING DIAGRAM
519	ANALOG OUTPUT MODULE WIRING DIAGRAM
52Ø	ANALOG OUTPUT MODULE WIRING DIAGRAM
9Ø1	GENERAL INFORMATION LEGEND
9Ø2	LABEL LEGEND

					NOTICE: THE DOCUMENT AND	RED RI	IVER WASTEW	ATER TREA	ATMENT PLANT		
					INFORMATION CONTAINED HEREIN IS PROPRIETARY TO	OUISIANA					
					REVERE CONTROL SYSTEMS, INC.	. SLUDGE PROCESS BUILDING CONTROL PAN					
1	Ø1/27/15	FIELD REVISION	JEC	MLC	AND SHOULD NOT BE USED, COPIED OR DISCLOSED TO		TITL	E SHEET			
Ø	Ø5/Ø6/14	RECORD DRAWING	LDG	ACS		DRAWN BY:	LDG	DATE:	12/4/12		
REV	DATE	DESCRIPTION	BY	APPV	WRITING BY REVERE CONTROL SYSTEMS, INC.	CHECKED BY:	ACS	SCALE:	1=1		



224Ø ROCKY RIDGE ROAD BIRMINGHAM, AL 35216 PHONE: (205) 824-ØØØ4

1/24

TEM	QTY MFG	CATALOG	DESCRIPTION	ITE	EM C	QTY MFG	CATALOG	DESCRIPTION
	1 HOFFMAN	A727224FSD	ENCLOSURE, FREE-STANDING, NEMA 12, 72" X 72" X 24"	56	6	2 PANDUIT	LAM2A-2/Ø	GROUND LUG
	1 HOFFMAN	A72P72F1	SUBPANEL, 60" X 68"	57	7	2 SQUARE D	PK9GTA	GROUND BAR, 9PT
	6 HOFFMAN	AHCI1ØE	CORROSION INHIBITOR EMITTER, 10 CUBIC FT, 2.5" DIA X 2" H	58	в	4 SQUARE D	PK5GTA	GROUND BAR, 5PT
	2 HOFFMAN	ATEMNO	TEMPERATURE SWITCH, NO	59	9	1 CORNING	WIC-Ø4P	FIBER INTERCONNECT
	1 HOFFMAN	AASHLF1818	SHELF, 18" X 18"	60	Ø	3 CORNING	CCH-CP12-25T	FIBER CONNECTOR PA
	2 HOFFMAN	LF12ØV18	FLUORESCENT ENCLOSURE LIGHT, 18", 120VAC, Ø.13A	61	1	1 HUBBELL	DRUBGFI15	GROUND FAULT RECEP
	2 HOFFMAN	F8T5	FLUORESCENT BULB, 18"	62	2	3 CORNING	Ø55Ø-Ø2K5141-ØØ6-F	FIBER JUMPER, 6 FEE
	1 HOFFMAN	ALFSWD	DOOR SWITCH	63	3	3 BELKIN	A3L98Ø-Ø4-BLU-S	CABLE, PATCH, CAT6,
				64	4			
				65	5			
				66	6			
	1 HOFFMAN	TEP6UL12	EXHAUST GRILL, 6 IN, TYPE 12	67	7	1 PHOENIX CONTACT	2839334	SURGE SUPPRESSOR, I
5	1 HOFFMAN	TFP61UL12	COOLING FAN PKG, 6 IN, TYPE 12	68	в	1 PHOENIX CONTACT	2839282	SURGE SUPPRESSOR B
ŀ	1 AB	1756-A1Ø	CONTROLLOGIX CHASSIS, 10 SLOTS	69	9	13 EDCO	DRS-Ø36	SURGE SUPPRESSOR, 3
5	1 AB	1756-A17	CONTROLLOGIX CHASSIS, 17 SLOTS	70	Ø	19 EDCO	DRS-175-2	SURGE SUPPRESSOR, 7
5	2 AB	1756-PA72	CONTROLLOGIX POWER SUPPLY, 120/240VAC	71	1	1 REVERE	CUSTOM	NAMEPLATE, "REVERE"
7	1 AB	1756-L72	CONTROLLOGIX CPU, 4MB, USER MEMORY	72	2	1 HIRSCHMANN	MS4128-L2P EEC	MODULAR ETHERNET S
5	5 AB	1756-ENBT	ETHERNET/IP MODULE, 10/100 Mbps, 128 LOGIX CONNECTIONS, 64 TCP/IP CONNECTIONS	73	3	1 HIRSCHMANN	MM4-4TX/SFP	GIGABIT RJ45/SFP CC
Э	4 AB	1756-IA16I	CONTROLLOGIX DIGITAL AC INPUT MODULE, 16 PT ISOLATED, 120VAC	74	4	3 HIRSCHMANN	MM2-4TX1-EEC	MEDIA MODULE, 4X 10
	1 AB	1756-OW16I	CONTROLLOGIX DIGITAL CONTACT OUTPUT MODULE, 16 PT ISOLATED, 10-265VAC/5-150VDC	75	5	2 HIRSCHMANN	M-SFP-SX/LC	SFP MODULE, 1 X 100
1	3 AB	1756-IF8H	CONTROLLOGIX ANALOG INPUT MODULE, 8 PT, WITH HART 4-20mA	76	6	1 HIRSCHMANN	MM2Ø-Z6Z6Z6Z6SAHH	4X100 Mbit/s SFP SO
2	8 AB	1756-TBCH	TERMINATION BLOCK, 36 PIN	77	7	1 HIRSCHMANN	M-FAST SFP-MM/LC	SFP MODULE, 1 X 100
3	1 AB	1756-OF6CI	CONTROLLOGIX ANALOG OUTPUT MODULE, 6 ISOLATED OUTPUTS	78	8	3 IDEC	RH1B-ULDC24V	RELAY, SPDT W/ IND
4	1 AB	1756–TBNH	TERMINATION BLOCK, 20 PIN	79	9	3 IDEC	SH1B-Ø5	RELAY SOCKET, SPDT,
5	1Ø AB	1756-N2	CONTROLLOGIX SLOT FILLER					
	2 AB	1756-EN2TR	CONTROLLOGIX ETHERNET/IP COMMUNICATION MODULE, 2 PORT					
	1 PULS	CS5.241	POWER SUPPLY, 120W, 120/208/240VAC 1PH, 24VDC, 5A					
2	16 IDEC	RJ1S-CL-A12Ø	RELAY, SPDT W/ IND LIGHT, 120VAC COIL, 12A CONTACTS					
5	16 IDEC	SJ1S-Ø7L	CONTROL RELAY BASE, BLADE TYPE, 300V 12A CONTACTS, DIN RAIL MOUNT					
4	2 SQUARE D	QOU12Ø	CIRCUIT BREAKER, 1 POLE, 20A					
5	11 AB	1489-A1CØ5Ø	CIRCUIT BREAKER, 1 POLE, 5A, 24ØVAC					
6	1 AB	1489-A1CØ3Ø	CIRCUIT BREAKER, 1 POLE, 3A, 24ØVAC					
,	4 AB	1489-A1CØ2Ø	CIRCUIT BREAKER, 1 POLE, 2A, 24ØVAC					
3	11 AB	1489-A1CØ1Ø	CIRCUIT BREAKER, 1 POLE, 1A, 240VAC					
9	8 AB	1489-A1CØØ5	CIRCUIT BREAKER, 1 POLE, 1/2A, 240VAC					
Ø	30 PHOENIX CONTACT	565Ø1Ø2	CIRCUIT BREAKER, 1 POLE, Ø.2AMP					
1	6 SQUARE D	QOU11Ø	CIRCUIT BREAKER, 1 POLE, 1ØA					
2	61 WEIDMULLER	1020100000	TERMINAL BLOCK, FEED THROUGH, WDU 4, BEIGE, 600V, 22-10 AWG					
-3	41 WEIDMULLER	1Ø1Ø1ØØØØØ	TERMINAL BLOCK, GROUND, WPE 4, GREEN/YELLOW, 22-10 AWG					
4	80 WEIDMULLER	1021500000	TERMINAL BLOCK, DUAL LEVEL, WDK 2.5, BEIGE, 300V, 30-12 AWG					
46	4 WEIDMULLER	1059100000	TERMINAL BLOCK, END PLATE, WAP WDK 2.5, BEIGE					
47	1Ø WEIDMULLER	163193ØØØØ	TERMINAL BLOCK, TAG CARRIER, SCHT 5 S, BEIGE					
8	21 WEIDMULLER	Ø38356ØØØØ	TERMINAL BLOCK, END BRACKET, EW 35, BEIGE					
19		1050000000	TERMINAL BLOCK, END PLATE, WAP 2.5-10, BEIGE					
9 Ø	1 WEIDMULLER			1				
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) I	1 WEIDMULLER		WIRE DUCT, TYPE F, 2.25" × 4.10", RIGID GRAY VINYL					
Ø 1 2	A/R PANDUIT	F2X4LG6						
Ø 1 2 3			WIRE DUCT, TYPE F, 2.25" x 4.10", RIGID GRAY VINYL WIRE DUCT, 2" RIGID GRAY VINYL, NON-SLIP COVER WIRE DUCT, TYPE F, 3.25" X 4.10", RIGID GRAY VINYL					

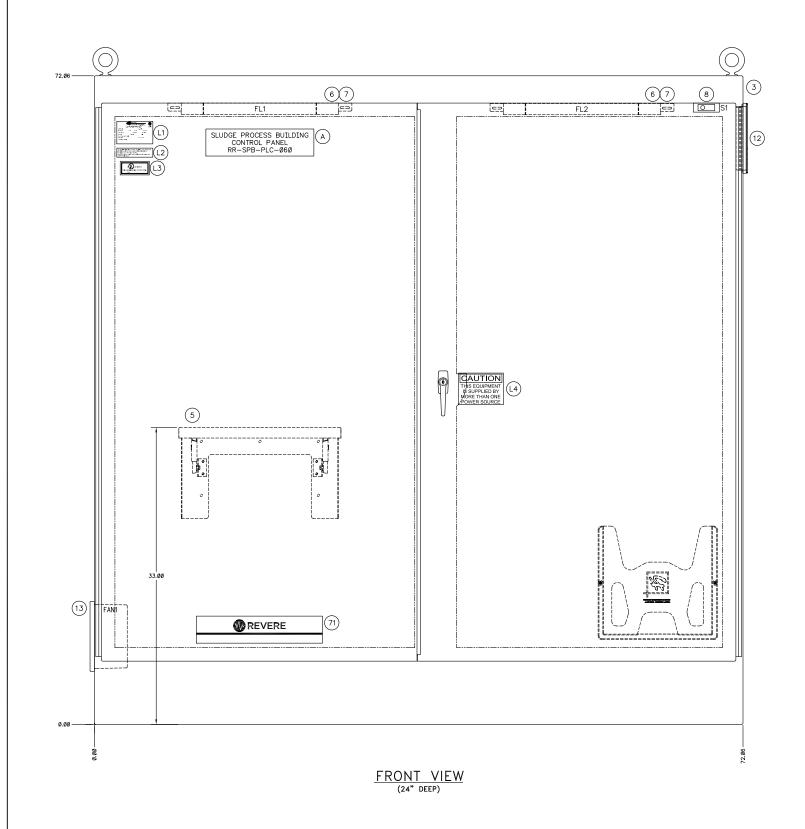
					NOTICE: THE DOCUMENT AND	RED RIV	VER WASTEWA	TER TRE	ATMENT PLANT
					INFORMATION CONTAINED		CITY OF BOSSIE	R CITY, LO	UISIANA
					HEREIN IS PROPRIETARY TO REVERE CONTROL SYSTEMS, INC.	SLUDGE	E PROCESS BU	ILDING C	ONTROL PANEL
1	Ø1/27/15	FIELD REVISION	JEC	MLC	AND SHOULD NOT BE USED, COPIED OR DISCLOSED TO		BILL OF	MATERIA	L
Ø	Ø5/Ø6/14	RECORD DRAWING	LDG	ACS	OTHERS, EXCEPT AS SPECIFICALLY AUTHORIZED IN	DRAWN BY:	LDG	DATE:	12/4/12
REV	DATE	DESCRIPTION	BY	APPV	WRITING BY REVERE CONTROL SYSTEMS, INC.	CHECKED BY:	ACS	SCALE:	1=1

BILL OF MATERIAL

ERCONNECT CENTER, WALL MOUNT, UP TO 4 CCH CONNECTOR PANELS INECTOR PANEL, 12 ST MULTIMODE ADAPTERS, MM, 62.5uM, CERAMIC INSERT AND METAL HOUSING AULT RECEPTACLE, DIN RAIL BOX w/ GFR5252GYA, 15A, 125V IPER, 6 FEET, ST/LC, MULTIMODE TCH, CAT6, 14 FEET, RJ45(M) TO RJ45(M) (TD#90544D) PPRESSOR, PT 2-PE/S-120VAC-ST, LINE, 120VAC, 20A PPRESSOR BASE, PT BE/FM PRESSOR, 30V, 3-TERMINAL DEVICE PRESSOR, 170V, 3-TERMINAL DEVICE "REVERE" ETHERNET SWITCH, 24VDC, 4 X 1000 BASE-SX AND 24 100 FAST-ETHERNET PORTS, -30 TO 60°C 345/SFP COMBO MODULE, 4 X COMBO PORTS FOR USE WITH MS4128 ONLY -40 TO 70°C DULE, 4X 10/100 Mbit/s RJ45, EXTENDED TEMPERATURE RANGE LE, 1 X 1000BASE-SX, LC CONNECTOR t/s SFP SOCKETS LE, 1 X 100BASE-FX, LC CONNECTOR DT W/ IND LIGHT, 24VDC COIL, 10A CONTACTS CKET, SPDT, DIN RAIL MOUNT



	ENGRAVING SCHEDULE										
ITEM	QTY	LINE1	LINE2	LINE3	TYPE OR MFG	SIZE OR CATALOG					
A	1	SLUDGE PROCESS BUILDING	CONTROL PANEL	RR-SPB-PLC-Ø6Ø	BLACK W/.5" WHITE LETTERING	3.00" X 12.00"					

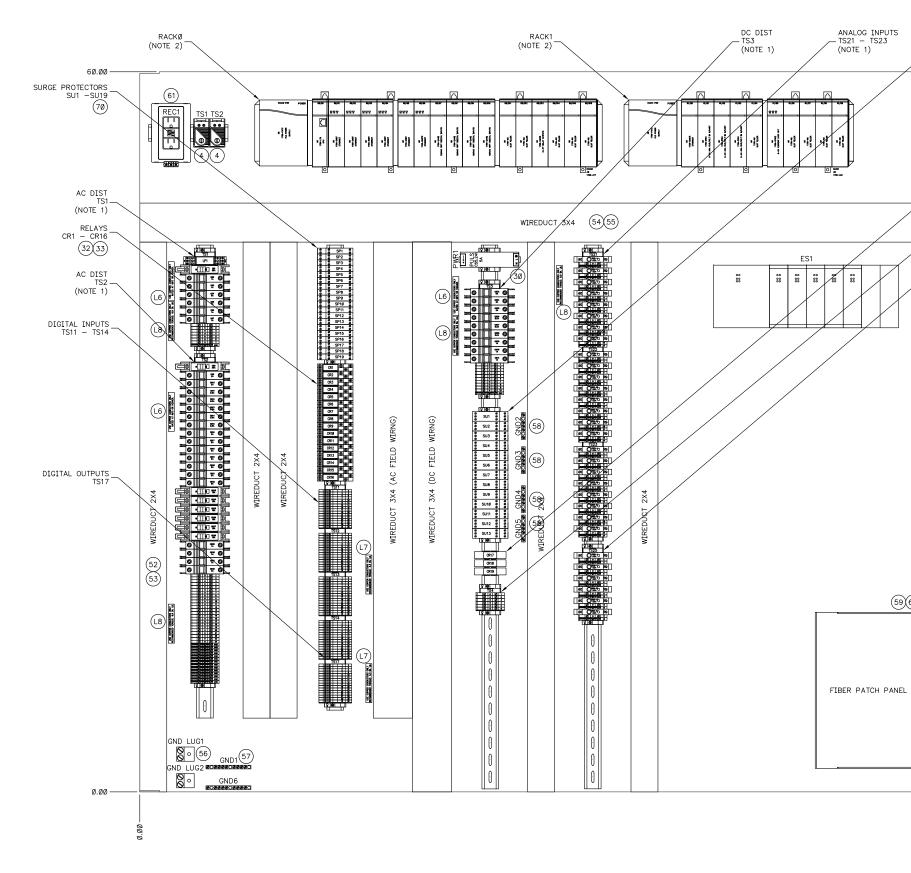


[NOTICE: THE DOCUMENT AND	RED RI	VER WASTEW	ATER TREA	TMENT PLANT	
						INFORMATION CONTAINED HEREIN IS PROPRIETARY TO	CITY OF BOSSIER CITY, LOUISIANA				
						REVERE CONTROL SYSTEMS, INC. AND SHOULD NOT BE USED.	SLUDGE	PROCESS B	UILDING CC	NTROL PANEL	
	1	Ø1/27/15	FIELD REVISION	JEC	MLC	COPIED OR DISCLOSED TO		ENCLOS	URE LAYOU	Т	
	Ø	Ø5/Ø6/14	RECORD DRAWING	LDG	ACS		DRAWN BY:	LDG	DATE:	12/4/12	
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224Ø ROCKY RIDGE ROAD BIRMINGHAM, AL 35216 PHONE: (205) 824-0004

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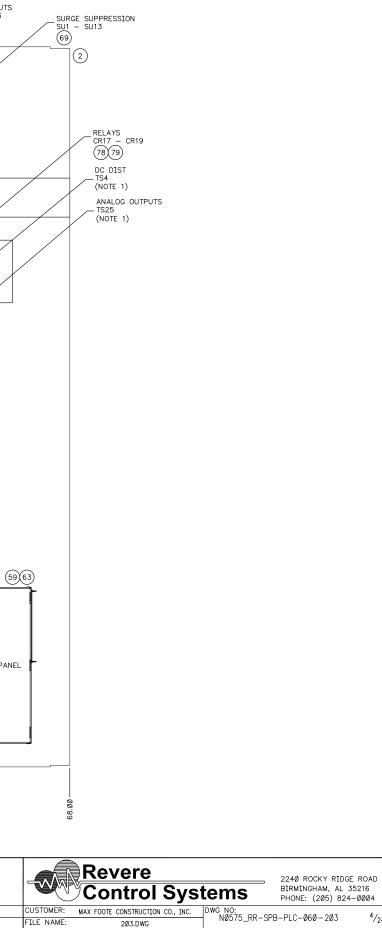
1.	FOR	TERMINAL	BLOCK	DETAIL	SEE	DWG	2Ø4	

2. FOR PLC DETAIL SEE DWG 301.

NOTES:

					NOTICE: THE DOCUMENT AND INFORMATION CONTAINED HEREIN IS PROPRIETARY TO REVERE CONTROL SYSTEMS, INC. AND SHOULD NOT BE USED.	CIT	Y OF BOSSIE PROCESS BU	ER CITY, LO JILDING CO	NTROL PANEL
1	Ø1/27/15	FIELD REVISION	JEC	MLC	COPIED OR DISCLOSED TO		SUBPAN	VEL LAYOUT	
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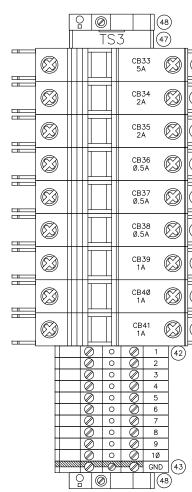




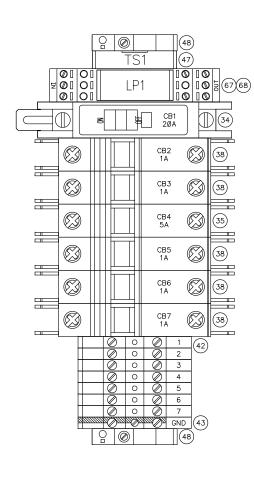
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						HEREIN IS PROPRIETARY TO REVERE CONTROL SYSTEMS, INC.	SLUDGE	PROCESS BUI	LDING C	CONTROL PANEL			
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	1	Ø1/27/15	FIELD REVISION	JEC	MLC	AND SHOULD NOT BE USED, COPIED OR DISCLOSED TO		TERMINAL E	BLOCK DET	ΓAIL		
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ANALOG INPUTS

DIGITAL INPUTS

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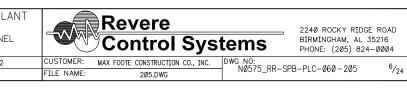
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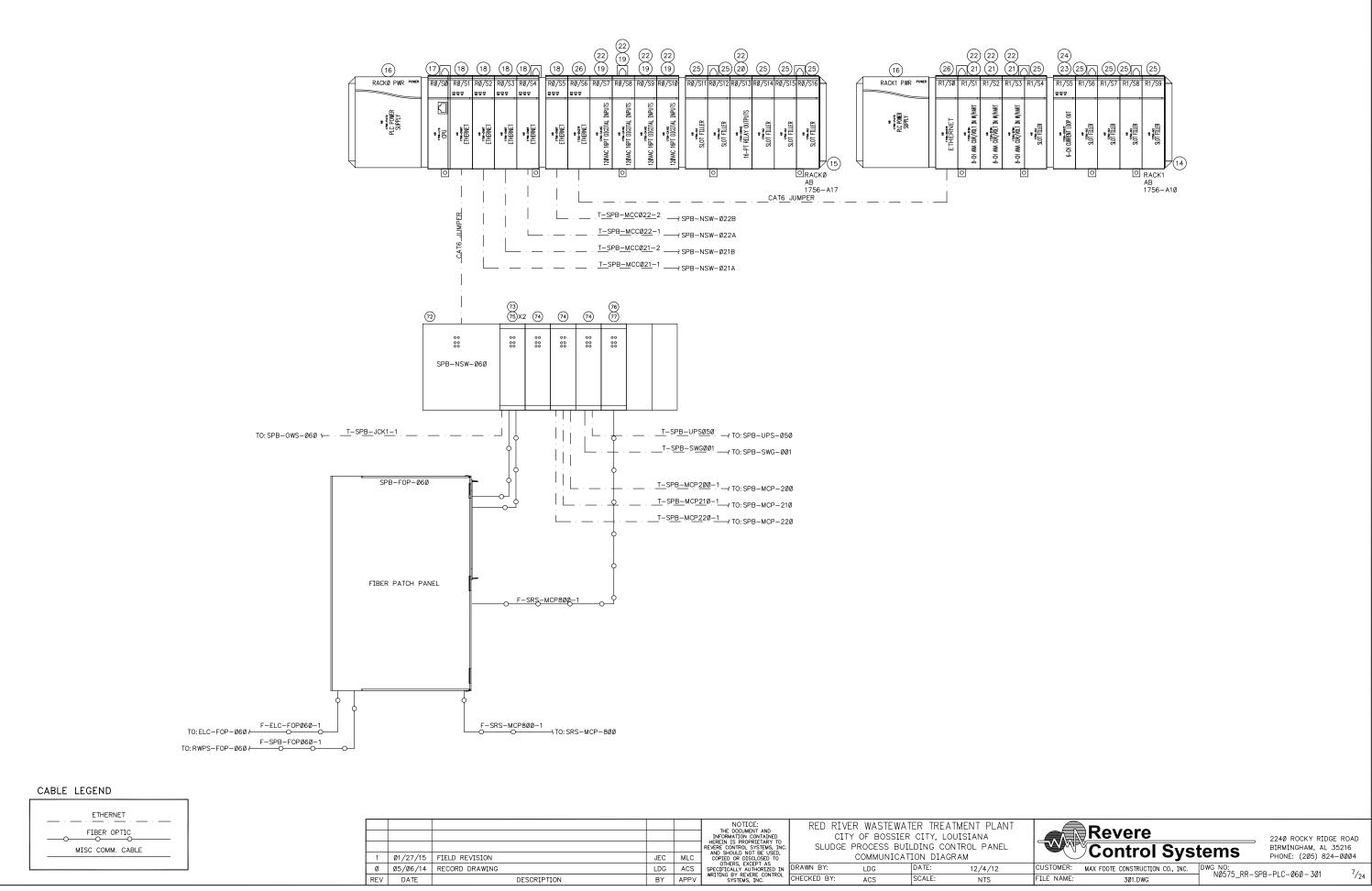
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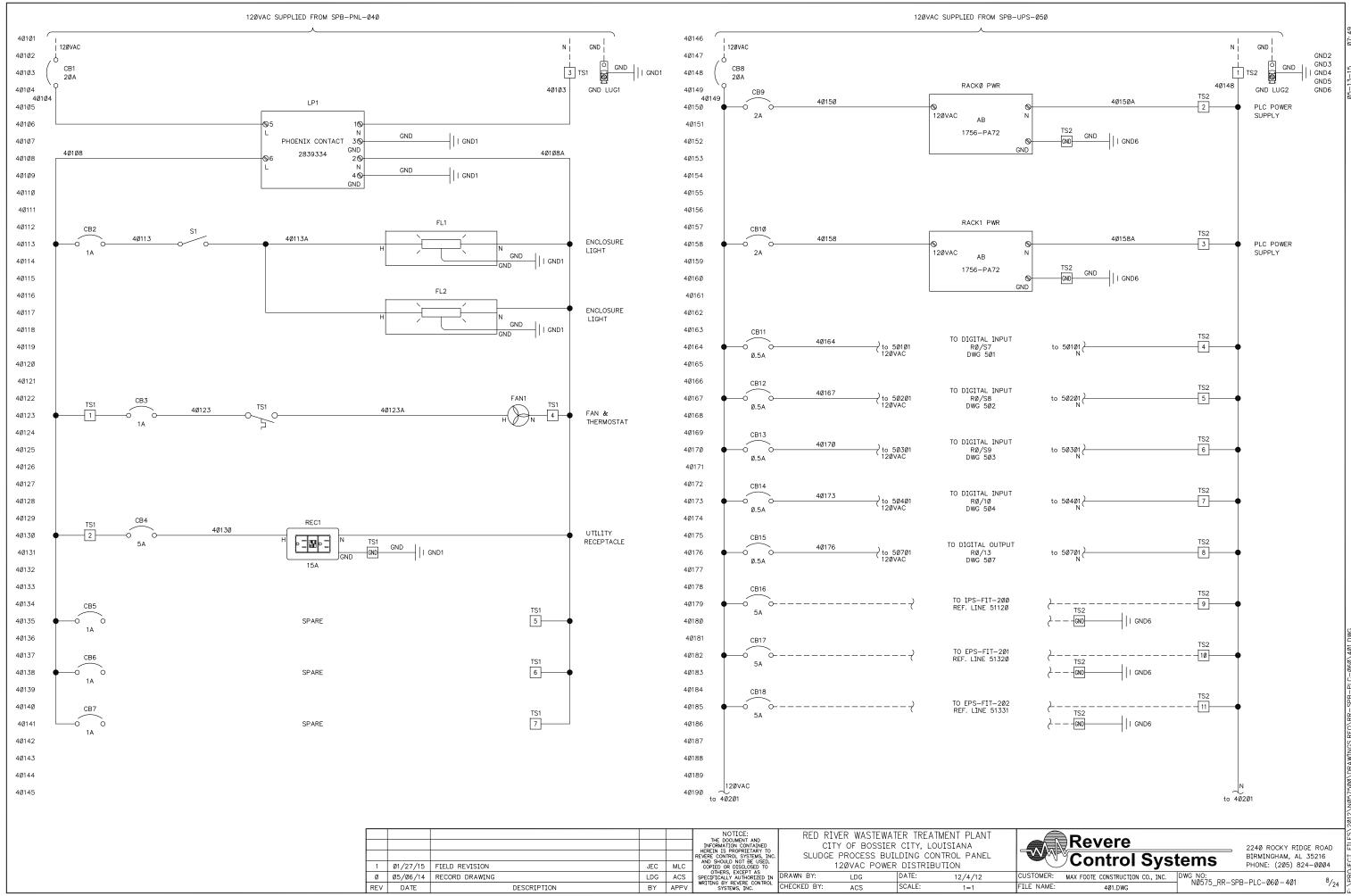
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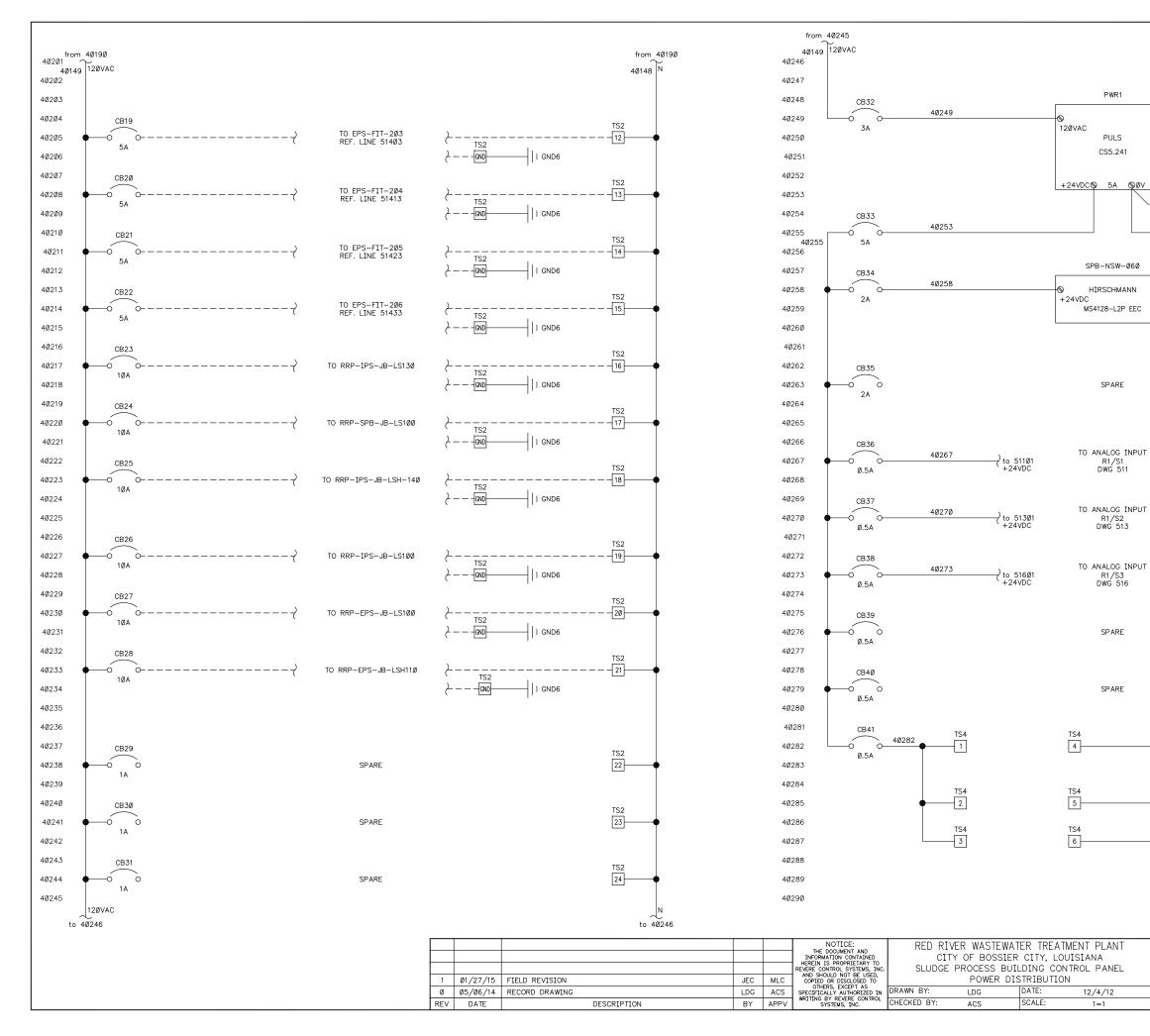
ANALOG OUTPUTS

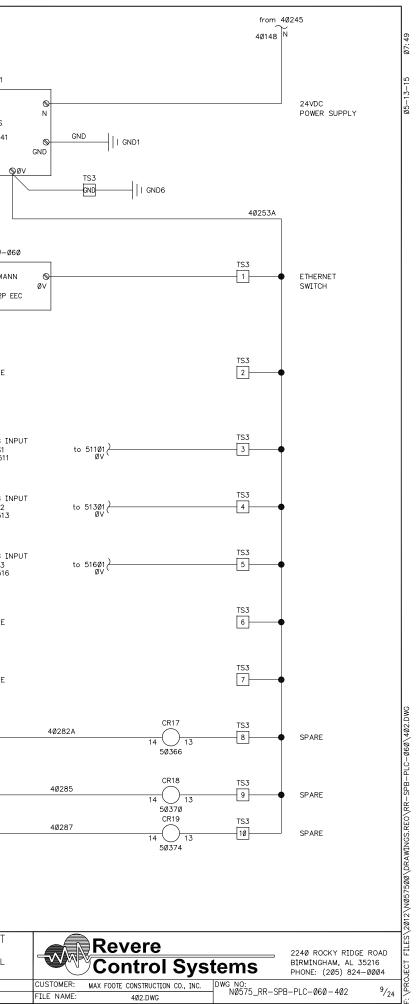


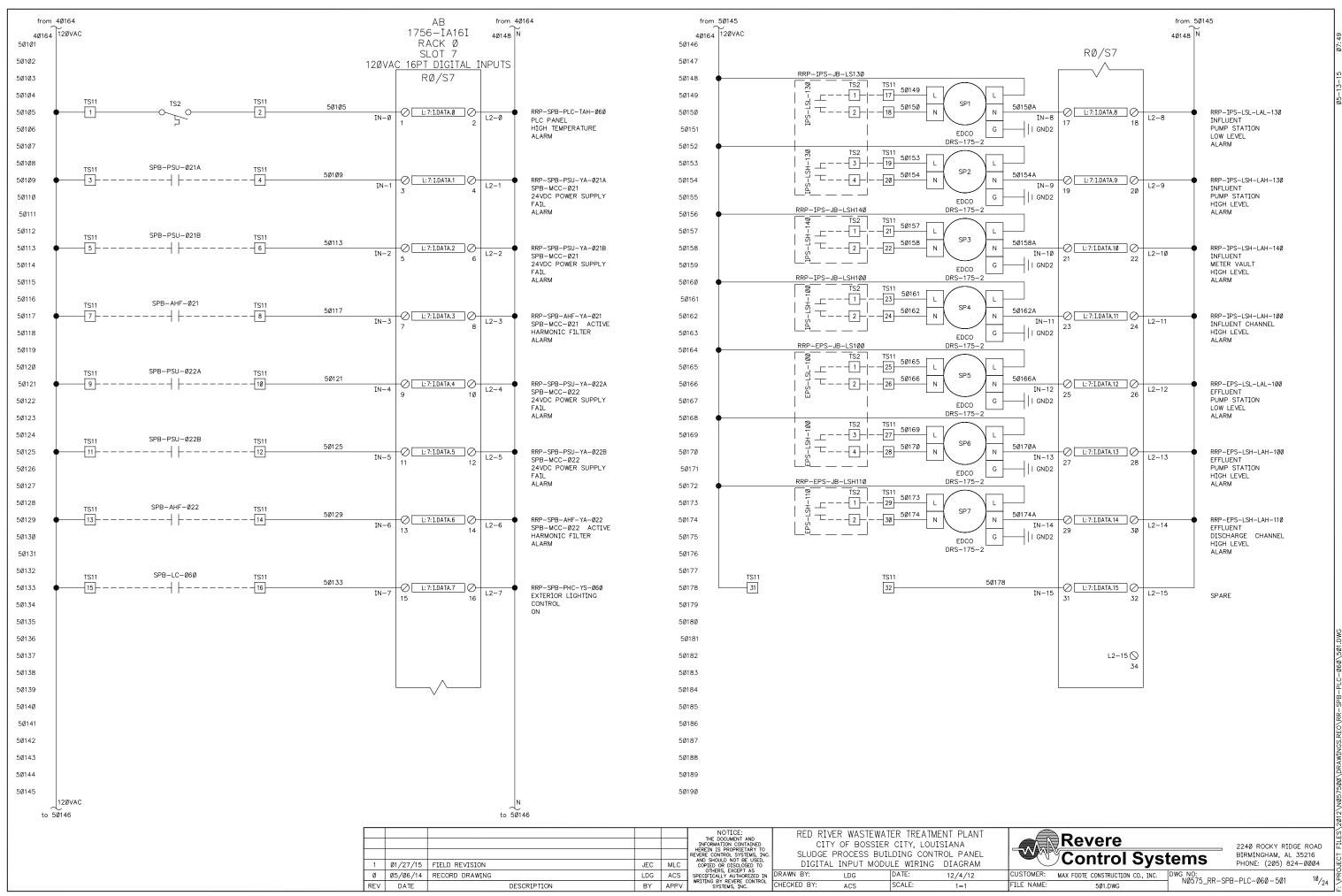


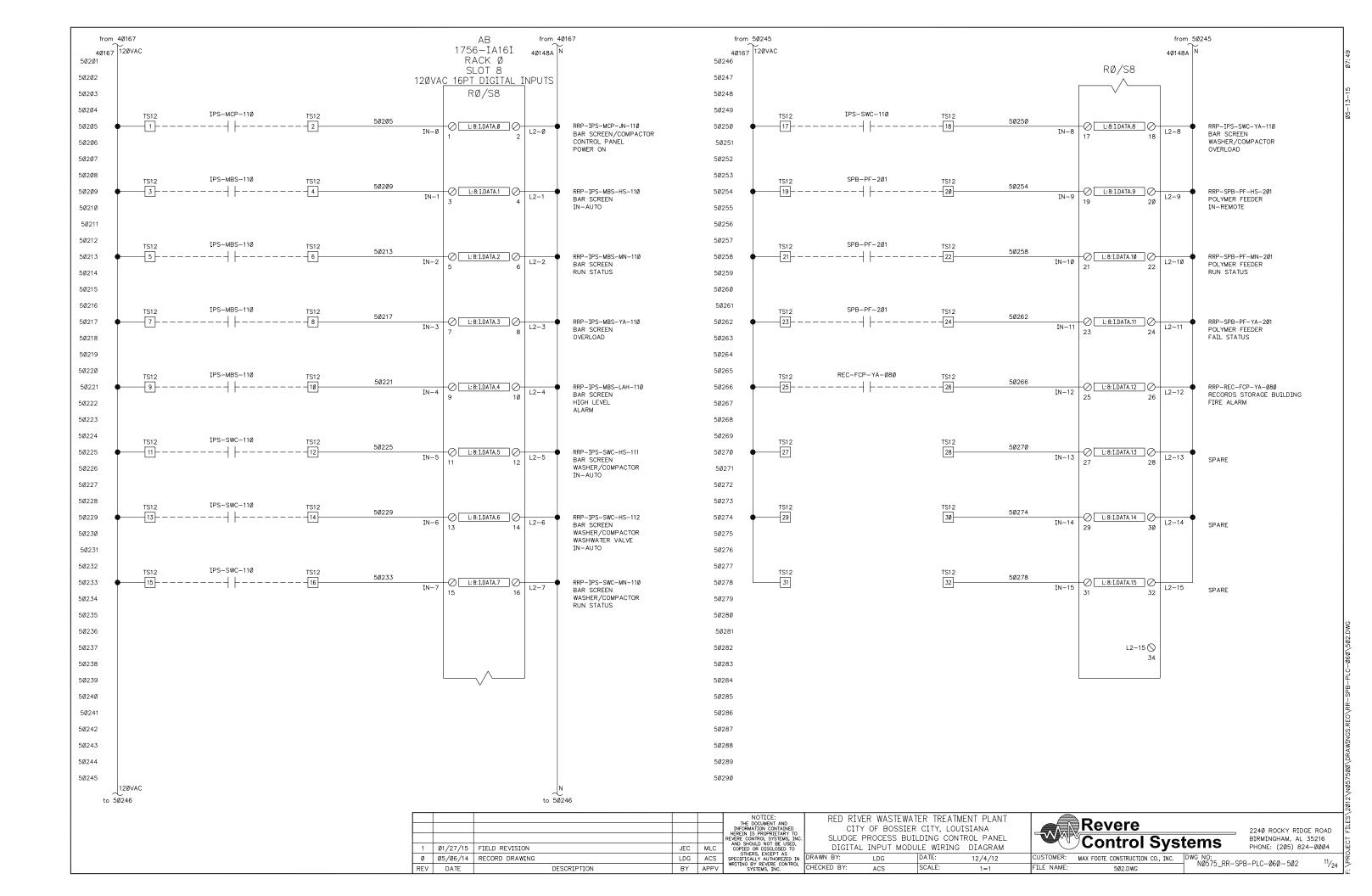
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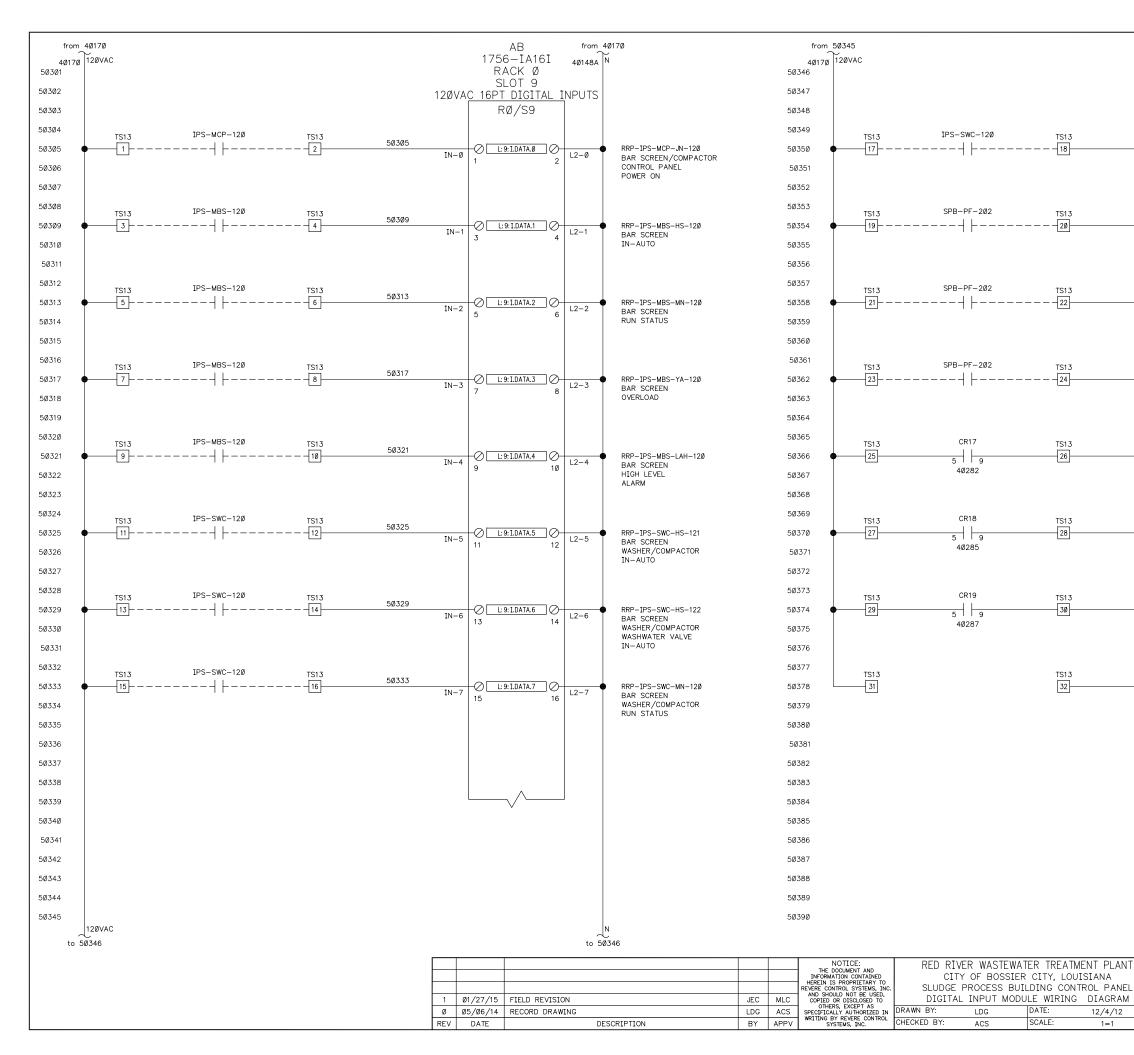


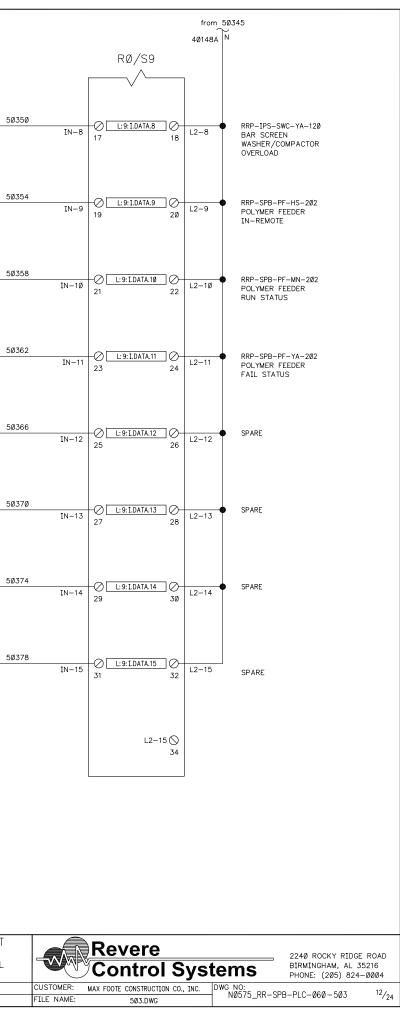




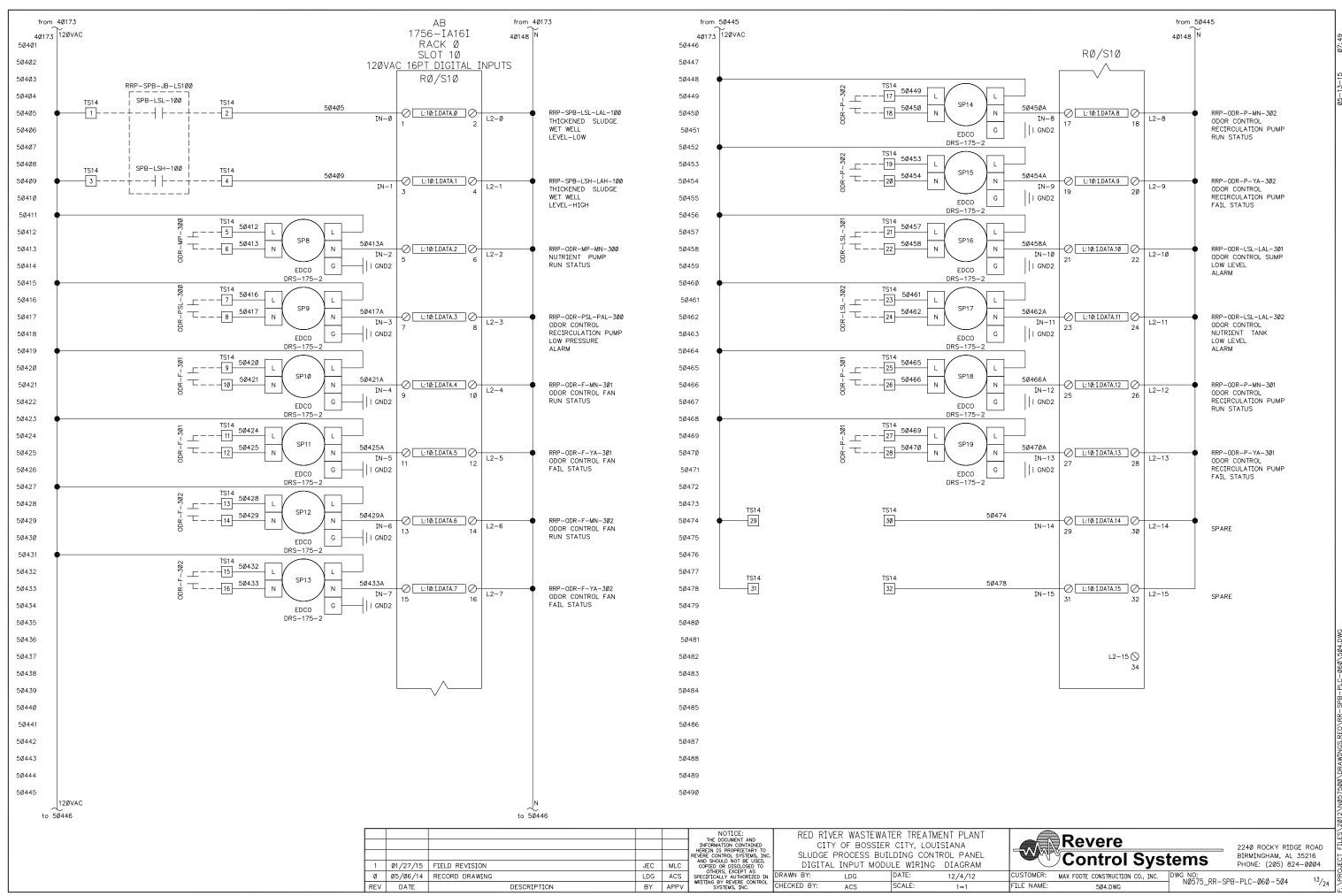


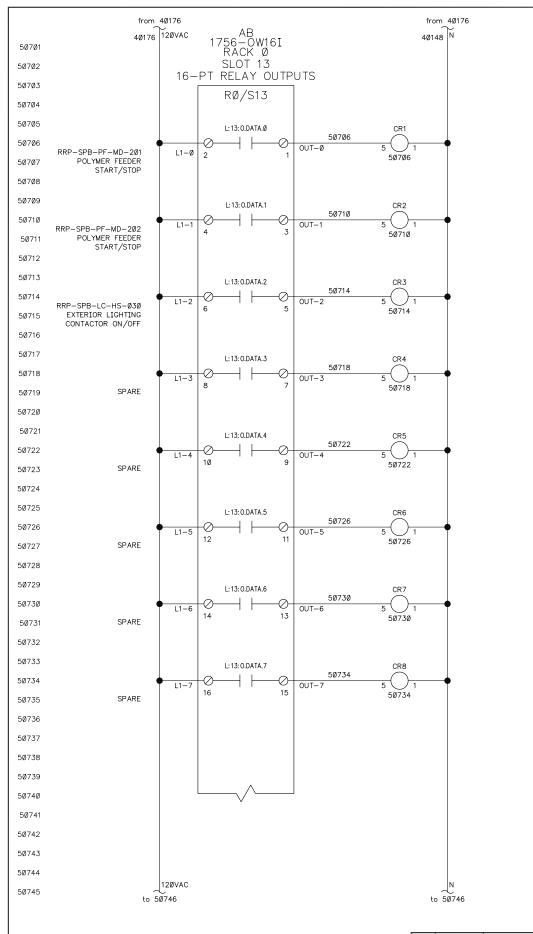


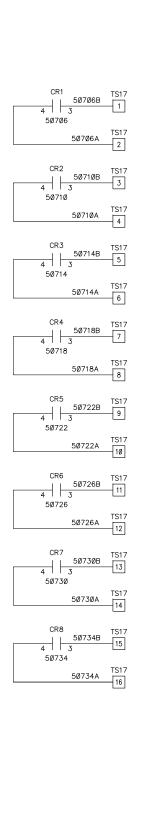


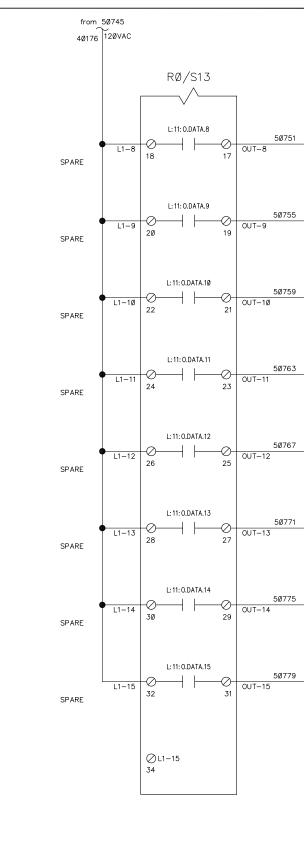


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NOTES:	
1. CONTACT RATING FOR DO CARD RELAYS (TYP): 2A @ 5-30 Ø.25A @ 125V DC, 2A @ 125/240V AC.	₩ DC, Ø.5A @ 48V DC,

2.	RELAY CONTACT	RATING:	12A	RESISTIVE	Q	25ØV	AC.	7.5A	INDUCTIVE	

					NOTICE: THE DOCUMENT AND	RED RIV	/ER WASTEWA	TER TREAT	MENT PLANT		
					INFORMATION CONTAINED	INFORMATION CONTAINED CITY OF BOSSIER CITY. L					
					HEREIN IS PROPRIETARY TO REVERE CONTROL SYSTEMS, INC.	SLUDGE	PROCESS BU	ILDING CON	TROL PANEL		
1	Ø1/27/15	FIELD REVISION	JEC	MLC	SPECIFICALLY ADDITIONIZED IN -	DIGITAL	OUTPUT MOD	DULE WIRIN	G DIAGRAM		
Ø	Ø5/Ø6/14	RECORD DRAWING	LDG	ACS		DRAWN BY:	LDG	DATE:	12/4/12		
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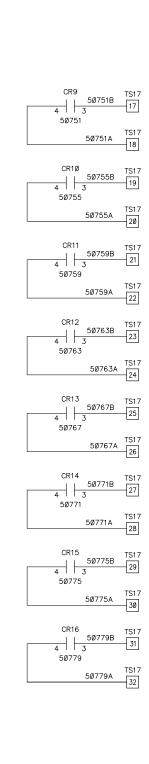
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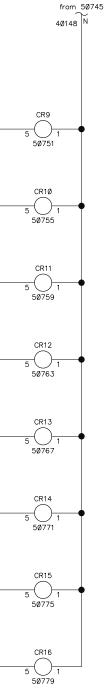
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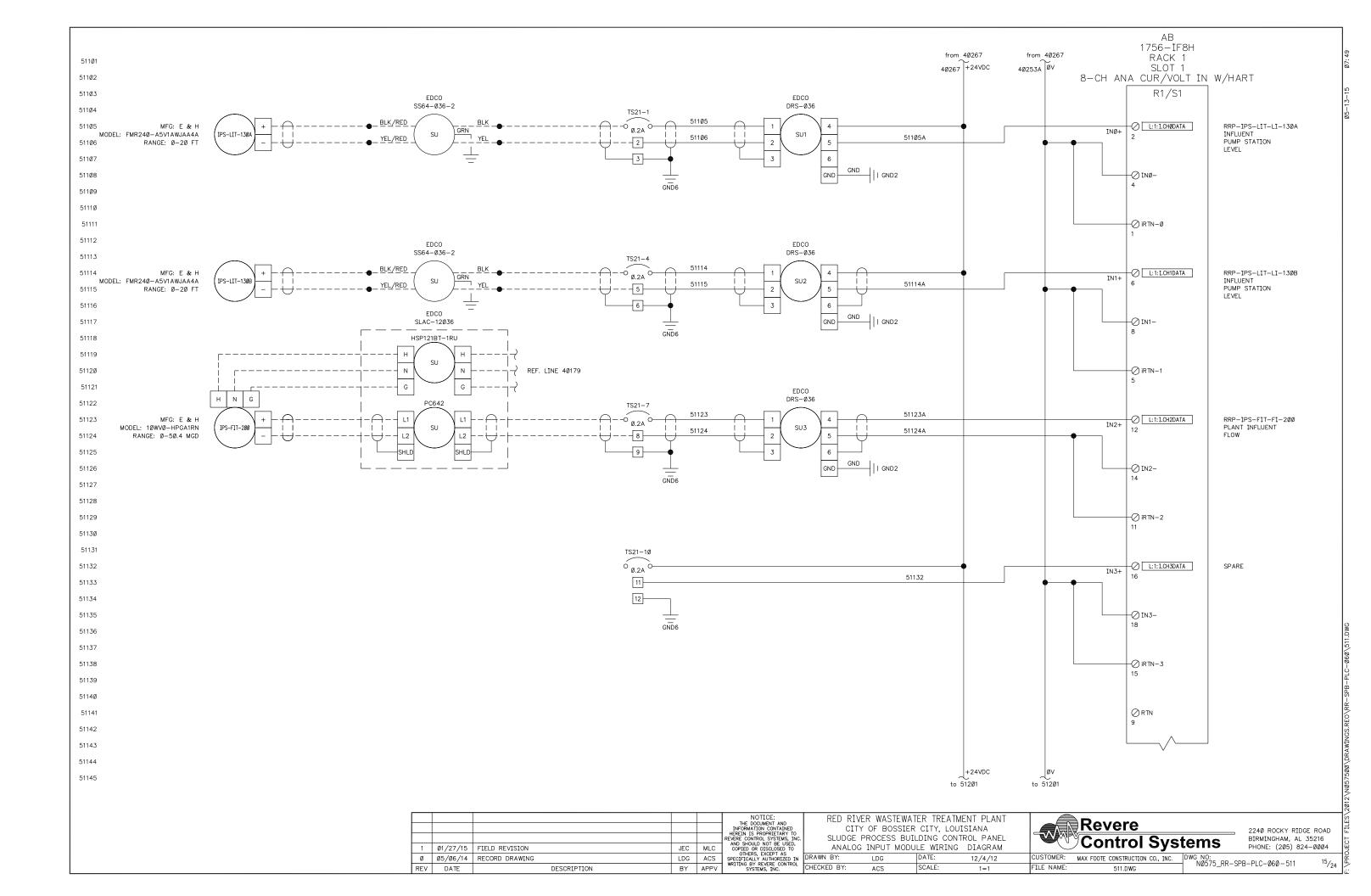
Control Systems BIRMINGHAM, AL 35216 PHONE: (205) 824-0004 CUSTOMER: MAX FOOTE CONSTRUCTION CO., INC. DWG NO: NØ575_RR-SPB-PLC-Ø6Ø-5Ø7 5Ø7.DWG

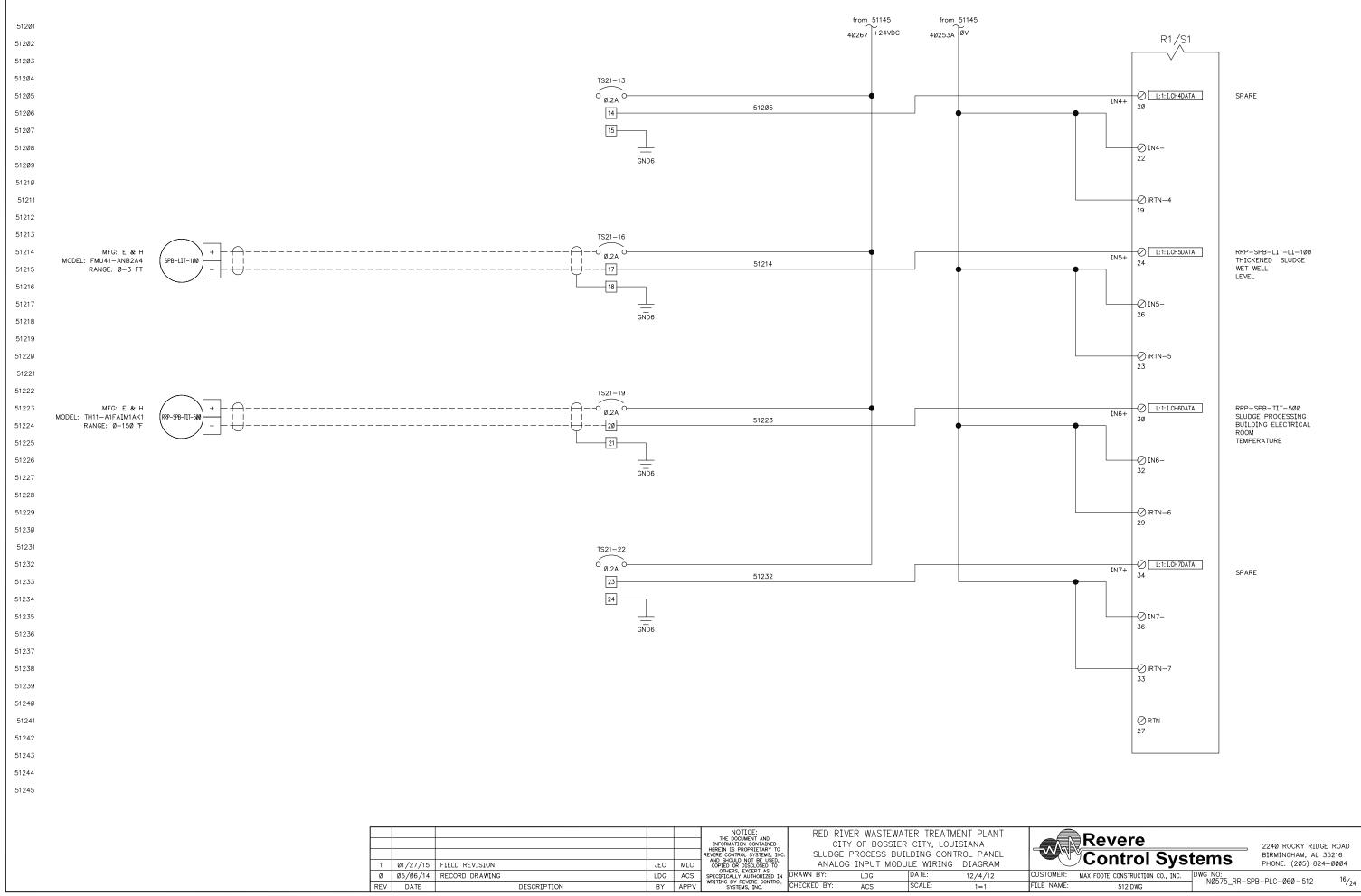
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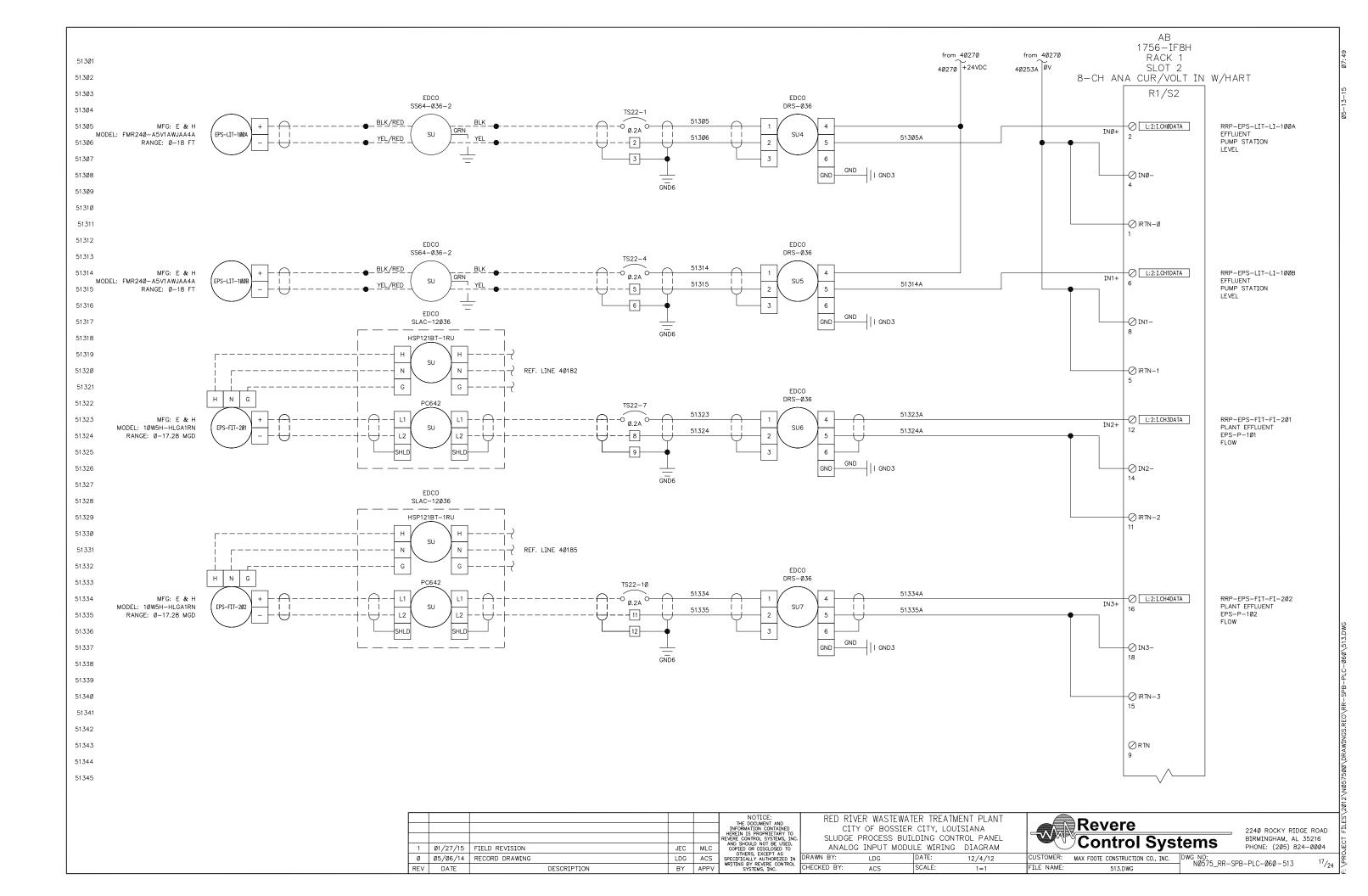
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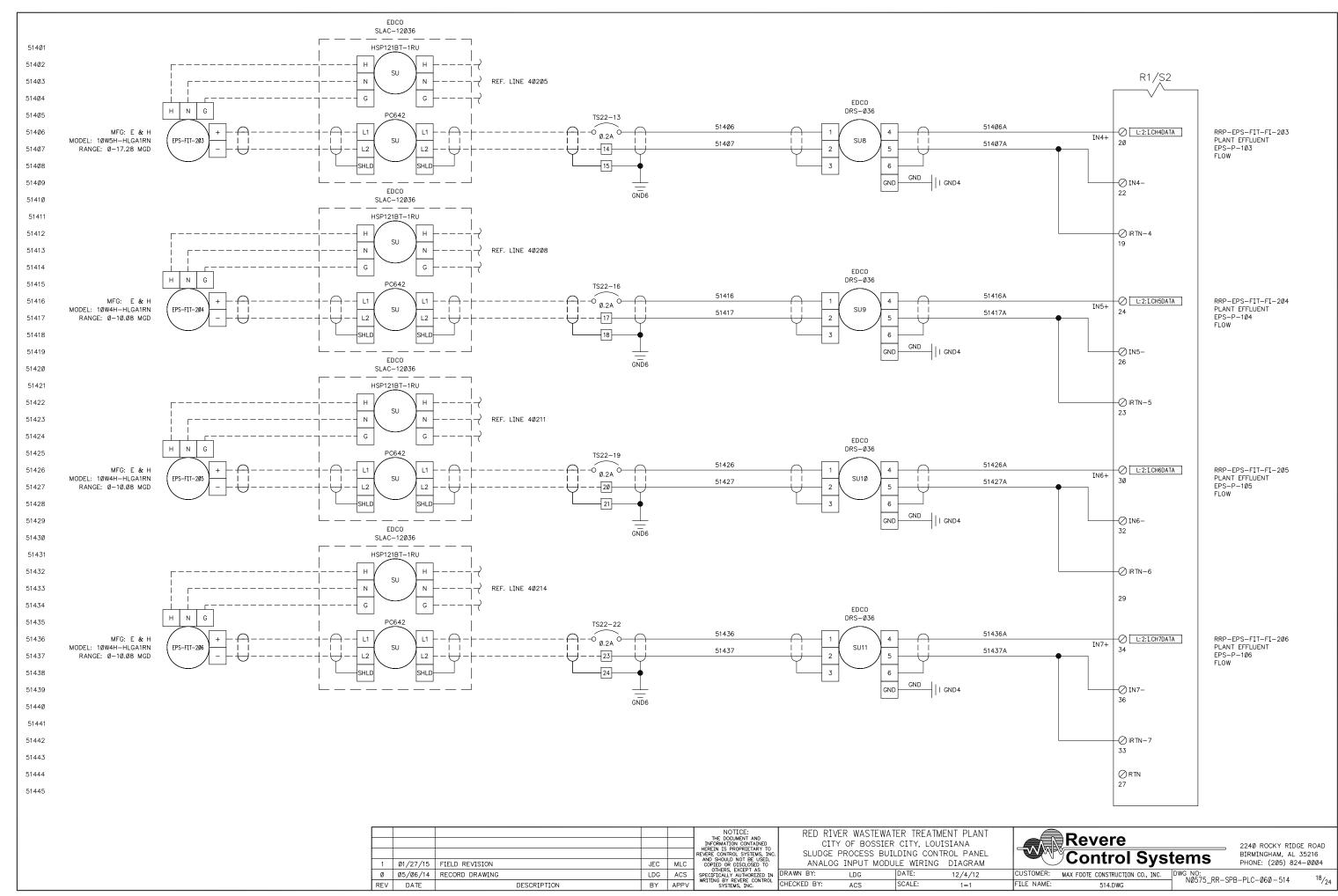
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224Ø ROCKY RIDGE ROAD



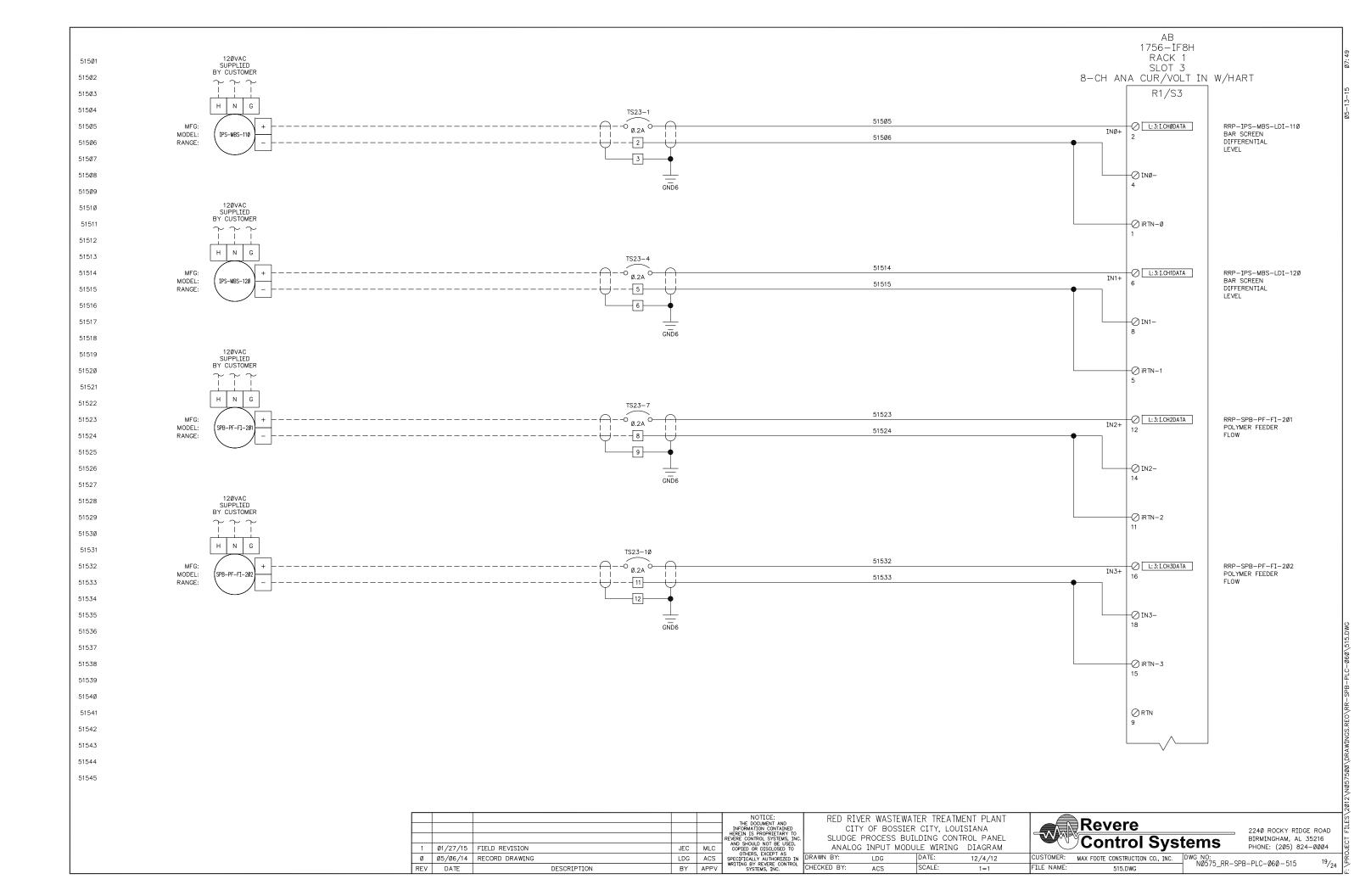


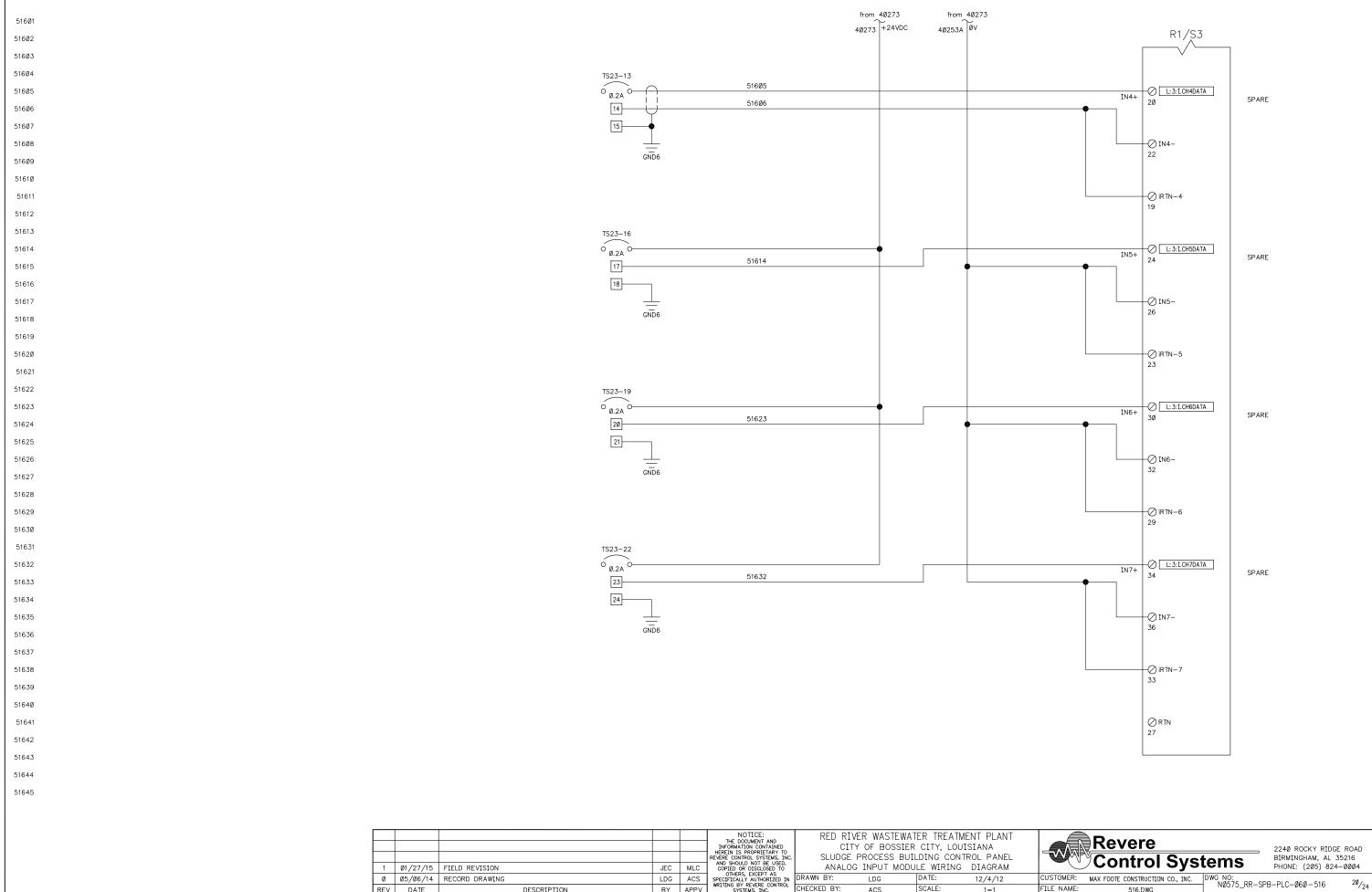




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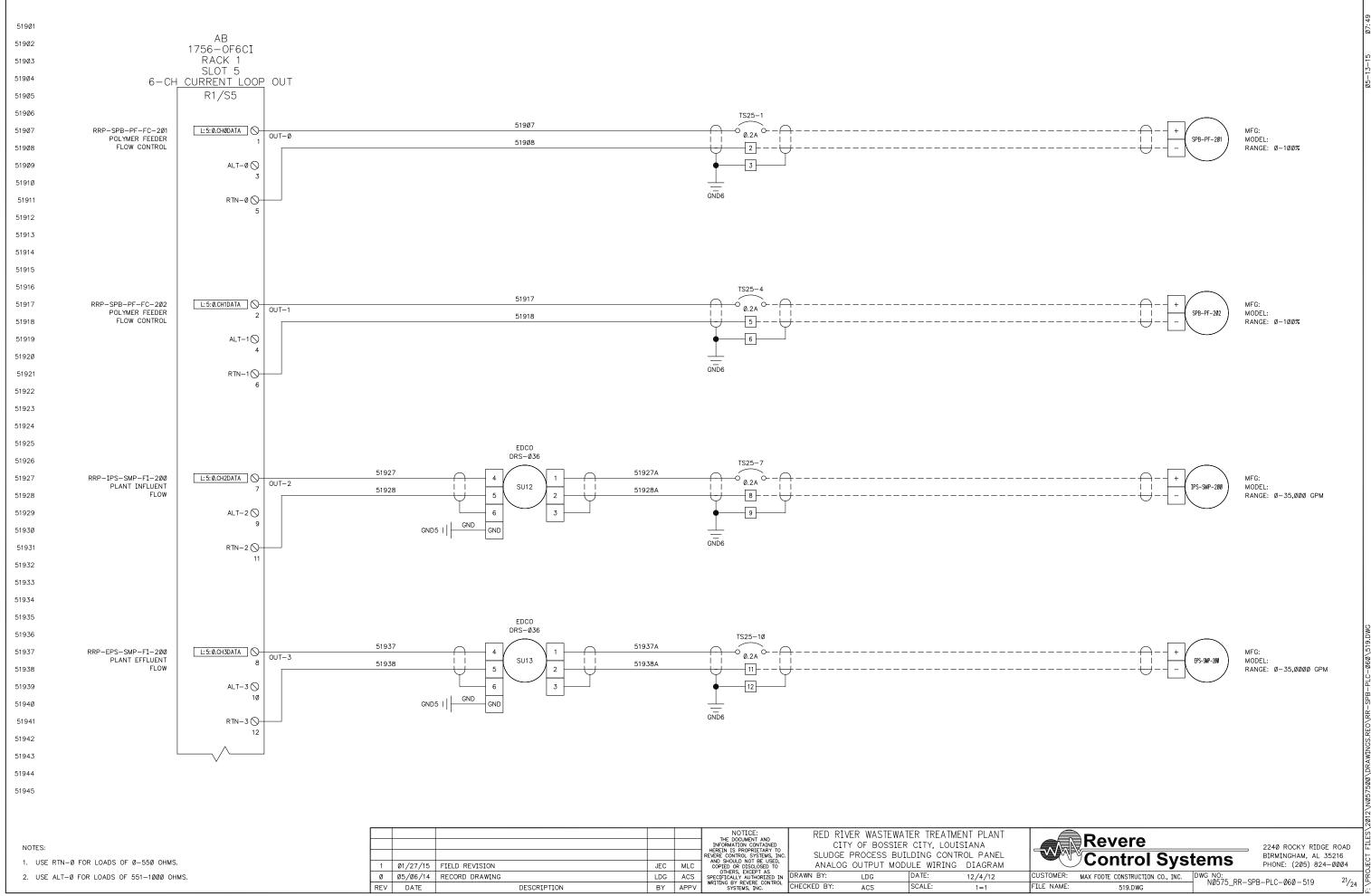




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NOTES: 1. USE RTN-Ø FOR LOADS OF Ø-55Ø OHMS. NOTES: 1. USE RTN-Ø FOR LOADS OF Ø-55Ø OHMS. NOTES: 1. USE RTN-Ø FOR LOADS OF Ø-55Ø OHMS. NOTES: 1. USE RTN-Ø FOR LOADS OF Ø-55Ø OHMS. NOTES: NO					
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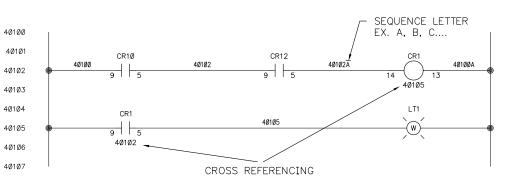


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		ELECTI	RICAL SCHI	EMATIC SY	MBOLS			
	PUSHBUTTONS		SELECTOR	SWITCHES	PILOT	SWITCH		
NORMALLY OPEN	NORMALLY CLOSED	MUSHROOM HEAD	2 POSITION	3 POSITION	STANDARD	PUSH-TO-TEST	TOGGLE SWITCH	
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	LIMIT S	WITCHES		PROXIMITY	SWITCHES	LEVEL S	SWITCHES	
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PRESSURE	SWITCHES	TEMPERATUR	RE SWITCHES	FLOW S	WITCHES	FOOT S	WITCHES	
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	CIRCUIT PROTECTOR	S AND DISCONNECTS		MOTOR CONTROL				
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			MISC S	YMBOLS	•			
TERMINAL BLOCK	GROUND	RESISTOR	DIODE					
	<u> </u>	~~~~	Þ					
HORN	HEATER	FAN	POTENTIOMETER	BATTERY	SHIELDED CABLE	PLUG/JACK	NODE	
		\bigcirc	0~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	+ -		>>>	•	

	DEVICE AND CO		LJUNATIONS	
DESIGNA	TION DEVICE	DESIGNA	TION DEVICE	
AH	ALARM OR ANNUNCIATOR HORN	LS	LIMIT SWITCH	
AIT	ANALYZER INDICATING TRANSMITTER	LT	LIGHT	
ANLT	ALARM OR ANNUNCIATOR LIGHT	м	MOTOR STARTER	
AM	AMP METER	мот	MOTOR	
CAP	CAPACITOR	MTR	METER	
СВ	CIRCUIT BREAKER	NP	NAMEPLATE	
CBL	CABLES	OL	OVERLOAD	
CR	CONTROL RELAY	PB	PUSHBUTTON	
CRL	CONTROL RELAY, LATCH	PE	PHOTO ELECTRIC SWITCH	
CRU	CONTROL RELAY, UNLATCH	PIT	PRESSURE INDICATING TRANSMITTER	
CT	CURRENT TRANSFORMER	PJ	PLUG/JACK	
CTR	COUNTER	POT	POTENTIOMETER	
D	DIODE	PS	PRESSURE SWITCH	
DISC	DISCONNECT SWITCH	PWR	POWER SUPPLY	
FIT	FLOW INDICATING TRANSMITTER	PRS	PROXIMITY SWITCH	
FL	FLUORESCENT LIGHT	REC	RECEPTACLE	
FLS	FLOW SWITCH	R	RESISTOR	
FN	FAN	SOL	SOLENOID	
FS	FLOAT SWITCH	SS	SELECTOR SWITCH	
FTS	FOOT SWITCH	SU	SURGE SUPPRESSOR	
FU	FUSE	S	SWITCH	
GND	GROUND	TB	TERMINAL BLOCK	
HTR	HEATER	TC	THERMOCOUPLE	
LIT	LEVEL INDICATING TRANSMITTER	TG	TOGGLE SWITCH	
LP	LINE PROTECTOR	TR	TIMING RELAY	
		XF	TRANSFORMER	

LINE	REFERENCING
PAGE NUMBER	$\frac{1}{401}\int_{39}^{\text{LINE NUMBER}}$



MANUFACTURING NOTES:

1. ALL PANEL WIRING WILL REQUIRE WIRE TAGS.

					NOTICE:	RED R	IVER WASTEW	ATER TREA	TMENT PLANT					
					THE DOCUMENT AND INFORMATION CONTAINED HEREIN IS PROPRIETARY TO		TY OF BOSSI				<u>Revere</u>		224Ø ROCKY RIDGE	E ROAD
					REVERE CONTROL SYSTEMS, INC. AND SHOULD NOT BE USED.				NTROL PANEL		Control Syst	tome	BIRMINGHAM, AL 3	
1	Ø1/27/15	FIELD REVISION	JEC	MLC	COPIED OR DISCLOSED TO		GENERAL INF	ORMATION	_EGEND		· · · · · · · · · · · · · · · · · · ·		PHONE: (2Ø5) 824-	
Ø	Ø5/Ø6/14	RECORD DRAWING	LDG	ACS	OTHERS, EXCEPT AS SPECIFICALLY AUTHORIZED IN	DRAWN BY:	LDG	DATE:	12/4/12	CUSTOMER:	MAX FOOTE CONSTRUCTION CO., INC.	DWG NO:	B-PLC-Ø6Ø-9Ø1	237
REV	DATE	DESCRIPTION	BY	APPV	WRITING BY REVERE CONTROL SYSTEMS, INC.	CHECKED BY:	ACS	SCALE:	1=1	FILE NAME:	9Ø1.DWG		5-FLC-000-901	²³ / ₂₄

CROSS REFERENCING AND WIRE NUMBERING

WIRING KEY (UNLESS OTHERWISE NOTED)									
120VAC		TYPE							
SUPPLY	BLACK	12 AWG	MTW, 600V0090°C						
RETURN	WHITE	12 AWG	MTW, 6ØØV@9Ø℃						
GROUNDED	GREEN	12 AWG	MTW, 6ØØV@9Ø℃						
SIGNAL/CONTROL	RED	16 AWG	MTW, 6ØØV@9Ø℃						
SIGNAL/CONTROL RETURN	WHITE	16 AWG	MTW, 6ØØV@9Ø℃						
EXTERNAL SOURCE	ORANGE	14 AWG	MTW, 6ØØV@9Ø℃						
24VDC			TYPE						
SUPPLY	BLUE	16 AWG	MTW, 6ØØV@9Ø℃						
RETURN	WHITE/BLUE	16 AWG	MTW, 6ØØV@9Ø℃						
GROUNDED	GREEN	16 AWG	MTW, 6ØØV@9Ø℃						
CONTROL	BLUE	16 AWG	MTW, 6ØØV@9Ø℃						
SIGNAL	BLACK/WHITE	18 AWG/SHLD	MTW, 6ØØV@9Ø℃						
PANEL WIRING			•						
FIELD WIRING									

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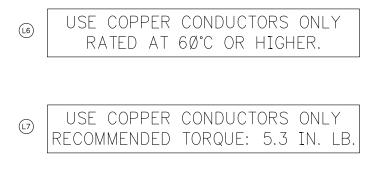
(II)		Re	vere							
\smile				Systems	(C)					
	ENGINEERING TO SERVE 2240 Rocky Ridge Rd., Birmingham, AL 35216									
	205.824.0004; Fax 205.824.0408; www.reverecontrol.com									
	Serial Number: NØ575_RR	-SPB-PLC-Ø6	Ø	Customer ID:						
	Line Voltage:	Phase:	Source:	Frequency:						
	Control Voltage: 120VAC	La	rgest Motor:	Total F.L.A.						
	Wired By:	Tested	By:	Date:						
	Revere Control Systems Co	ontact: D. ABE	L							
	Ref. Drawing: NØ575_RR-	SPB-PLC-Ø6Ø		Enclosure Type: 12						
	Short Circuit Current Rating	J:								
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L2)				ATING, USE HUI						
	RATING AS TH									
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L3)	C US LISTED ENCLOSED INDUSTRIAL CONTROL PANEL
	No.

					NOTICE: THE DOCUMENT AND	RED R	IVER WASTEWA	TER TREA	ATMENT PLANT
					INFORMATION CONTAINED HEREIN IS PROPRIETARY TO	1	ITY OF BOSSIE		
					REVERE CONTROL SYSTEMS, INC.	SLUDG	E PROCESS BU	ILDING C	ONTROL PANEL
1	Ø1/27/15	FIELD REVISION	JEC	MLC	AND SHOULD NOT BE USED, COPIED OR DISCLOSED TO		LABEL	LEGEND	
Ø	Ø5/Ø6/14	RECORD DRAWING	LDG	ACS		DRAWN BY:	LDG	DATE:	12/4/12
REV	DATE	DESCRIPTION	BY	APPV	WRITING BY REVERE CONTROL SYSTEMS, INC.	CHECKED BY:	ACS	SCALE:	1=1







224Ø ROCKY RIDGE ROAD BIRMINGHAM, AL 35216 PHONE: (205) 824-0004

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