

***RICHARDSON HIGH SCHOOL - RICHARDSON ISD
RICHARDSON, TEXAS
JOB #15047957***



ETC, Inc.

3031 Pleasant View Rd
PO Box 620979
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etcconnect.com

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES.

ORIGINAL FILE:
INDEX.DWG

CONTRACT WITH:
TEXAS SCENIC

REPRESENTATIVE:
HORTON CONTROLS GROUP

PROJECT MANAGER:
SHAWN FERNANDEZ

APPLICATIONS ENGINEER:
DAN BORUD

DRAWING TITLE:
TITLE PAGE/DRAWING INDEX

BL	01/03/18	SUBMITTAL
BY	DATE	REV.

JOB:
RICHARDSON HIGH SCHOOL
– RICHARDSON ISD

LOCATION:
RICHARDSON, TEXAS

JOB NUMBER:
15047957

DRAWING:
000

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IMPORTANT:

PLEASE NOTE THE FOLLOWING INFORMATION:

THE PROJECT MANAGER FOR THIS SYSTEM IS **SHAWN FERNANDEZ**.

ANY QUESTIONS CONCERNING THIS SYSTEM SHOULD BE
DIRECTED TO THE PROJECT MANAGER WHO CAN BE
REACHED AT OUR FACTORY:

THE TOLL FREE NUMBER IS: **1-800-688-4116**
THE FACTORY NUMBER IS: **608-831-4116**
THE FAX NUMBER IS: **608-836-1736**

**FOR SYSTEM ENERGIZATION, CONTACT THE PROJECT MANAGER
AT LEAST THREE WEEKS PRIOR TO YOUR REQUESTED DATE.**

PROJECT NOTES

SECTION 1 - CONTACTS:

MANUFACTURER:

ETC, Inc.
3031 Pleasant View Road
P.O. Box 620979
Middleton, Wisconsin, U.S.A. 53562
Tel: 800-688-4116
Fax: 608-836-1736

PROJECT MANAGER:

Shawn Fernandez
Direct Tel: 877-512-2300
E-mail: shawn.fernandez@etcconnect.com

CONTRACT WITH:

Texas Scenic
8053 Potranco Road
San Antonio, Texas 78251-2915
Tel: 800-292-7490
Fax: 210-256-8887

REPRESENTATIVE:

Horton Controls Group
101 Turtle Creek Boulevard
Dallas, Texas 75207-6807
Tel: 214-658-9030
Fax: 469-208-2420

CONSULTANT:

Schuler Shook Dallas
325 North Saint Paul Street
Dallas, Texas 75201-3890
Tel: 214-747-8300

SECTION 2 - GENERAL NOTES:

A.) Dimmer Rack generates approximately 4% of connected load as heat output. Dimmer Room must have climate control. Maintain between 32 degrees Fahrenheit (0 degrees Centigrade) to 104 degrees Fahrenheit (40 degrees Centigrade), humidity between 30%-95%, non-condensing and an altitude below 6500 feet (2000 meters). Consult ETC for installations above 6500 feet (2000 meters).

B.) Dimmer Rack requires a minimum of 10" top clearance for proper air ventilation. The Dimmer System also requires a minimum of 6" clearance on the left side to allow door-swing for proper module insertion/removal.

C.) Only the following Control Wiring substitutions may be used:
(All network connections to be terminated per TIA/EIA 568B standards.)

Belden 9729:	Belden 8471:	Belden 1583A:
General C0910A TMB PC244T West Penn DA2402	Alpha 1899C Belden 5200UE Carol C8661 TMB PCLP1PT TMB PCLP2PT West Penn 225	Comm Scope 5504 West Penn 4245 Cat 5 or better

Plenum Versions (when required)

Belden 89729 Belden 82729 Manhattan M42891 West Penn DA252402	Belden 6200UE Carol C8621 TMB PCLP1PTP TMB PCLP2PTP	Belden 1585A West Penn 254245
--	--	----------------------------------

D.) Please contact ETC, Inc. if deviations from the control riser are necessary.

E.) ETC, Inc. Distribution Equipment Wire Range:

All data connection terminals : 10 - 22 AWG.
All 20A terminal blocks : 8 - 22 AWG.

F.) Load circuit wiring shall have individual neutrals.

G.) Sensor and Unison Dimming Rack Load Terminations are provided as follows:

50A, 20A, 15A, 10A . . . 4 AWG. Max.
100A 2/0 Max.

H.) Line Feeds to be determined by others.

I.) Primary Feed Terminations are provided as follows:

Dimmer Rack Type:	Wire Range:
Sensor SR3-6 Sensor SR3-12 Sensor SR3-24 Sensor SR3-48	Single 14 AWG. - 2/0 Dual 6 AWG. - 250 MCM Dual 6 AWG. - 350 MCM Dual 2 AWG. - 600 MCM
Unison DRd6 (1P,3P) Unison DRd12 (3P) Unison DRd12 (1P) Unison AX6 (1P,3P) with MCB Unison AX12 (1P) with 400A. MCB Unison AX12 (3P) with 200A. MCB Unison AX12X (1P,3P) with Main Lugs Unison AX12X (1P,3P) with MCB	Single 14 AWG. - 2/0 Single 6 AWG. - 350 MCM Single 6 AWG. - 350 MCM Single 8 AWG. - 350 MCM Dual 2/0 - 400 MCM Single 8 AWG. - 350 MCM Dual 4 AWG. - 500 MCM Dual 2/0 - 400 MCM

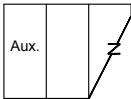
Unison DRd dimmer racks must use copper feed conductors. Branch circuit conductors terminating in Sensor and Unison DRd dimmer racks must be copper. Feeder conductors terminating in Sensor racks and Unison DRd Auxiliary (AX Series) racks must be copper or aluminum. For Sensor dimmer racks and Aux bays consult the manual for maximum current ratings. Unison DRd Auxiliary rack ratings are the same for copper or aluminum feeders. Utilize 90°C conductors at 75°C ampacity limits specified by the National Electrical Code. For conductor sizing and conduit fill, all branch circuit and feeder neutrals shall be considered current carrying conductors.

J.) Sensor Auxiliary Rack Feed Terminations are as follows:

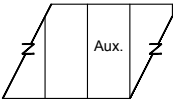
Aux. Bay Configuration:	Wire Max. Size Per Phase:	Wire Max. Size For Neutral:
Main Lugs	800A. Max. (19" and 30") 1000-2000A. (30" only)	Dual 2 AWG. - 600 MCM 6X 2 AWG. - 600 MCM
65K AIC MCB	300-400A. (19" only) 600A. (19" and 30") 800A. (19" and 30")	Dual 3/0 - 500 MCM Triple 1 AWG. - 500 MCM Triple 1 AWG. - 500 MCM

(MCB = Main Circuit Breaker AIC = Amps Interrupt Current)

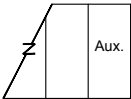
Please contact ETC, Inc. if requirements vary from above listing.



Left Bussed



Center Bussed



Right Bussed

K.) ETC recommends that all fluorescent lamps be pre-burned for 100 hours at full. It is our experience that fluorescent lamps will dim correctly and perform for longer hours if this is followed. Shorter periods of burn in may reduce dimming effectiveness and increase the lamp failure rate.

Echo Relay Panel Main Feed Cable Specification	
Purpose and Type:	Wire Range:
Main Lugs 120/240V 1Ø Main Lugs 120/208V 3Ø Main Lugs 277/480V 3Ø	4 AWG. - 300 MCM
Main Circuit Breaker 120/240V 1Ø, 100A, 22kA	1 AWG. - 300 MCM
Main Circuit Breaker 120/240V 1Ø, 200A, 22kA	1 AWG. - 300 MCM
Main Circuit Breaker 120/208V 3Ø 200A, 10kA Main Circuit Breaker 120/208V 3Ø 200A, 22kA Main Circuit Breaker 120/208V 3Ø 200A, 42kA	3/0 - 300 MCM
Main Circuit Breaker 120/208V 3Ø, 100A, 10kA	8 AWG. - 3/0
Main Circuit Breaker 277/480V 3Ø 200A, 14kA Main Circuit Breaker 277/480V 3Ø 200A, 65kA Main Circuit Breaker 277/480V 3Ø 150A, 14kA	6 AWG. - 350 MCM
Ground Input Lug (all models)	4 AWG. - 300 MCM

Sensor IQ Main Feed Cable Specification	
Purpose and Type:	Wire Range:
Main Lugs 120/240V 1Ø Main Lugs 120/208V 3Ø	6 AWG. - 250 kcmil (16 mm²-120 mm²)
Main Circuit Breaker 22kA 120/240V 1Ø, 100A Main Circuit Breaker 22kA 120/208V 3Ø, 100A	4 AWG-1 AWG (25 mm²-50 mm²)
Main Circuit Breaker 22kA 120/240V 1Ø, 200A Main Circuit Breaker 22kA 120/208V 3Ø, 200A	1 AWG-300 kcmil (50 mm²-150 mm²)
Main Circuit Breaker 65kA 120/240V 1Ø, 100A Main Circuit Breaker 65kA 120/208V 3Ø, 100A	4 AWG-300 kcmil (25 mm²-150 mm²)
Main Circuit Breaker 65kA 120/240V 1Ø, 200A Main Circuit Breaker 65kA 120/208V 3Ø, 200A	4 AWG-300 kcmil (25 mm²-150 mm²)
Main Circuit Breaker 65kA 120/240V 1Ø, 400A Main Circuit Breaker 65kA 120/208V 3Ø, 400A	3/0 AWG-250 kcmil (95 mm²-120 mm²)
Neutral Input Lug (all models)	6 AWG-350 kcmil (16 mm²-150 mm²)
Ground Input Lug (48-breaker and all Iso ground)	6 AWG-350 kcmil (16 mm²-150 mm²)
Ground Input Lug (12- and 24-breaker)	14 AWG-2/0 (2.5 mm²-50 mm²)

Load Wire Specification for Sensor IQ	
Purpose and Type (all models):	Wire Range:
Neutral, Ground, and Iso Ground	14 AWG-10 AWG (2.5 mm²-6 mm²)
	8 AWG (10 mm²)
	6 AWG-4 AWG (16 mm²-25 mm²)
Circuit Breaker Output	16 AWG-6 AWG Solid, Class B, C & K (1 mm²-10 mm² Solid, Class 1, 2 & 5) Note: Also UL listed for 2 x 12 AWG or 2 x 10 AWG stranded Class B, C, and K Stranded wire only.

SECTION 3 - SYSTEM STARTUP

NOTIFICATION:

1.) Please notify ETC Project Management three weeks prior to needing a system startup.

2.) No part of this system shall be energized without the knowledge of ETC, Inc.

ETC CONTRACTOR CHECKLIST:

If a System Startup is included with the purchase of the system, the following checklist notes the conditions that must be met before the Field Service Technician can startup the system. Please review the checklist with the installing contractor.

These items MUST be completed before the ETC Field Service Technician arrives at the site !

- ☐ All dimmer and relay panels are rigidly attached to the mounting surface.
- ☐ Dimmer panel(s) have sufficient access to the front and left for door clearance with TEN INCHES of unobstructed clearance above the fan(s).
- ☐ Feeder cable is pulled into the rack(s) and terminated in accordance with the ETC installation manuals.
- ☐ All branch circuits originating from the dimmer or relay panel(s) are installed and terminated on both ends.
- ☐ All loads have separate neutrals.
- ☐ All air gaps in the dimmer panel(s) are sealed, making each dimmer rack section an airtight enclosure.
- ☐ Any equipment racks must be mounted and powered as specified in drawings.
- ☐ Control cables are proper type and are installed as specified in the ETC submittal drawings.
- ☐ All back boxes are mounted and supplied with specified data cable tails at least three feet long.
- ☐ All control cable runs are installed as specified in the ETC submittal drawings.
- ☐ All control cable is labeled at BOTH ends as specified in the ETC submittal drawings.
- ☐ If system was sold as "Terminations By Others", all data terminations must be completed.
- ☐ All appropriate personnel are scheduled and available for training.
- ☐ All 0-10V fixture lines are metered to ensure no line voltage is present between conductors or between conductors and ground and are terminated properly.
- ☐ All RDM/DMX fixtures are addressed and documentation is available for the ETC technician.
- ☐ A complete and accurate load schedule is available for the ETC technician.



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etcconnect.com

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES.

ORIGINAL FILE:

NOTES.DWG

CONTRACT WITH:

TEXAS SCENIC

REPRESENTATIVE:

HORTON CONTROLS GROUP

PROJECT MANAGER:

SHAWN FERNANDEZ

APPLICATIONS ENGINEER:

DAN BORUD

DRAWING TITLE:

PROJECT NOTES

BL	01/03/18	SUBMITTAL
BY	DATE	REV.

JOB:

RICHARDSON HIGH SCHOOL
- RICHARDSON ISD

LOCATION:

RICHARDSON, TEXAS

JOB NUMBER:

15047957

DRAWING:

001



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ALL DIMENSIONS ARE IN INCHES.

ORIGINAL FILE:
RISER-SENSOR.DWG

CONTRACT WITH:
TEXAS SCENIC

REPRESENTATIVE:
HORTON CONTROLS GROUP

PROJECT MANAGER:
SHAWN FERNANDEZ

APPLICATIONS ENGINEER:
DAN BORUD

DRAWING TITLE:
CONTROL RISER

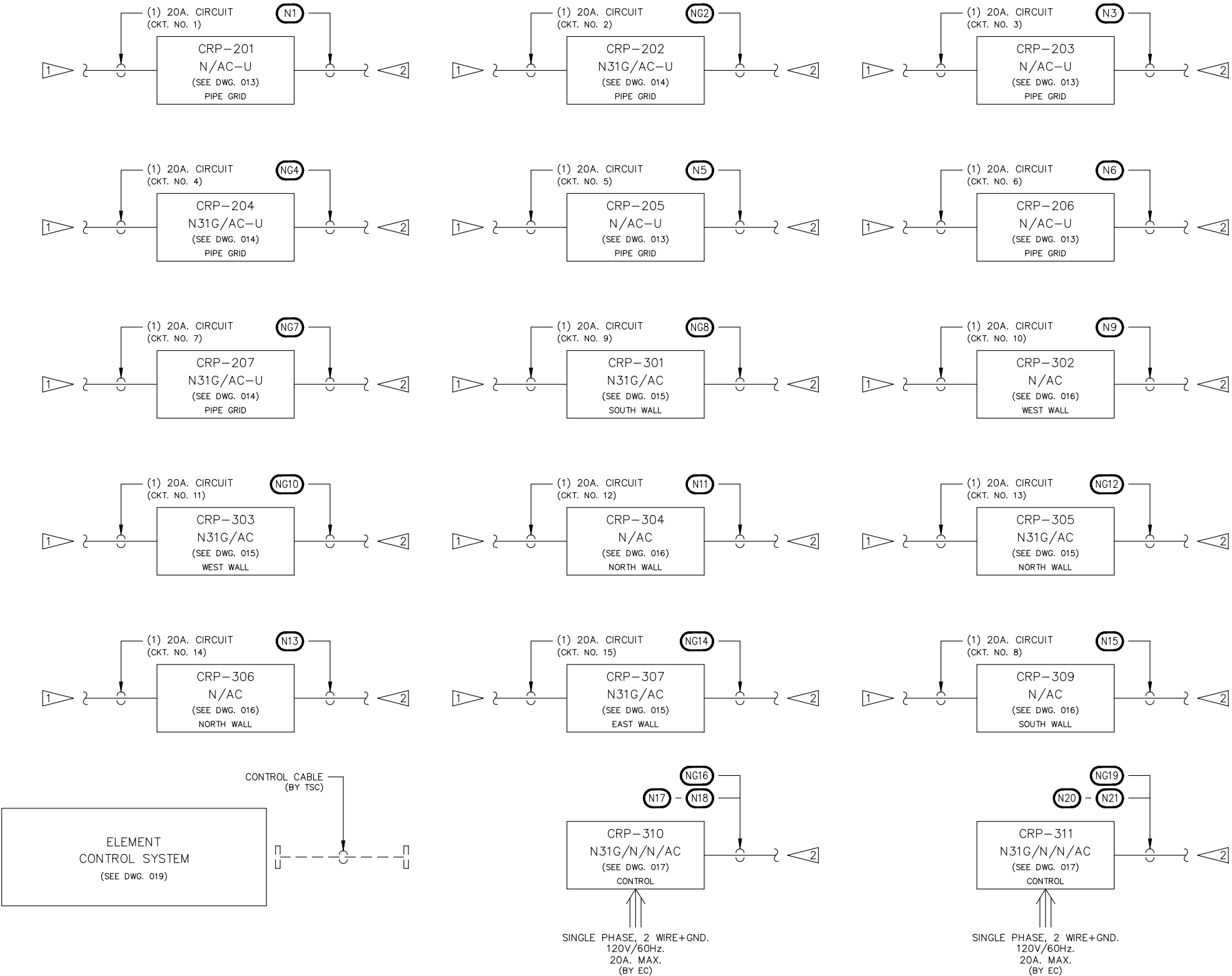
BL	01/03/18	SUBMITTAL
BY	DATE	REV.

JOB:
RICHARDSON HIGH SCHOOL
- RICHARDSON ISD

LOCATION:
RICHARDSON, TEXAS

JOB NUMBER:
15047957

DRAWING:
002



CONTROL WIRING LEGEND		
SYMBOL	WIRE TYPE(S)	SIGNAL
N*	(1) BELDEN #1583A	ETCNet (Cat5e)
NG*	(1) BELDEN #1583A (1) #14 AWG. STRANDED GND WIRE	ETCNet WITH GROUND (Cat5e)
* = WIRE IDENTIFICATION NUMBER (NOT QUANTITY)		

- NOTES:
1. FED FROM RP RELAY PANEL (SEE DWG. 003).
 2. FROM SPR EQUIPMENT RACK (SEE DWG. 003).
 3. ALL CONTROL WIRING IS PROVIDED BY EC UNLESS NOTED OTHERWISE.
 4. ALL ETCNet RUNS SHALL BE CONTINUOUS, UNSPLICED RUNS LESS THAN 250 FEET (76 METERS). ALL NETWORK CONNECTIONS TO BE TIA/EIA 568B.



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ORIGINAL FILE:
RISER-SENSOR.DWG

CONTRACT WITH:
TEXAS SCENIC

REPRESENTATIVE:
HORTON CONTROLS GROUP

PROJECT MANAGER:
SHAWN FERNANDEZ

APPLICATIONS ENGINEER:
DAN BORUD

DRAWING TITLE:
POWER RISER

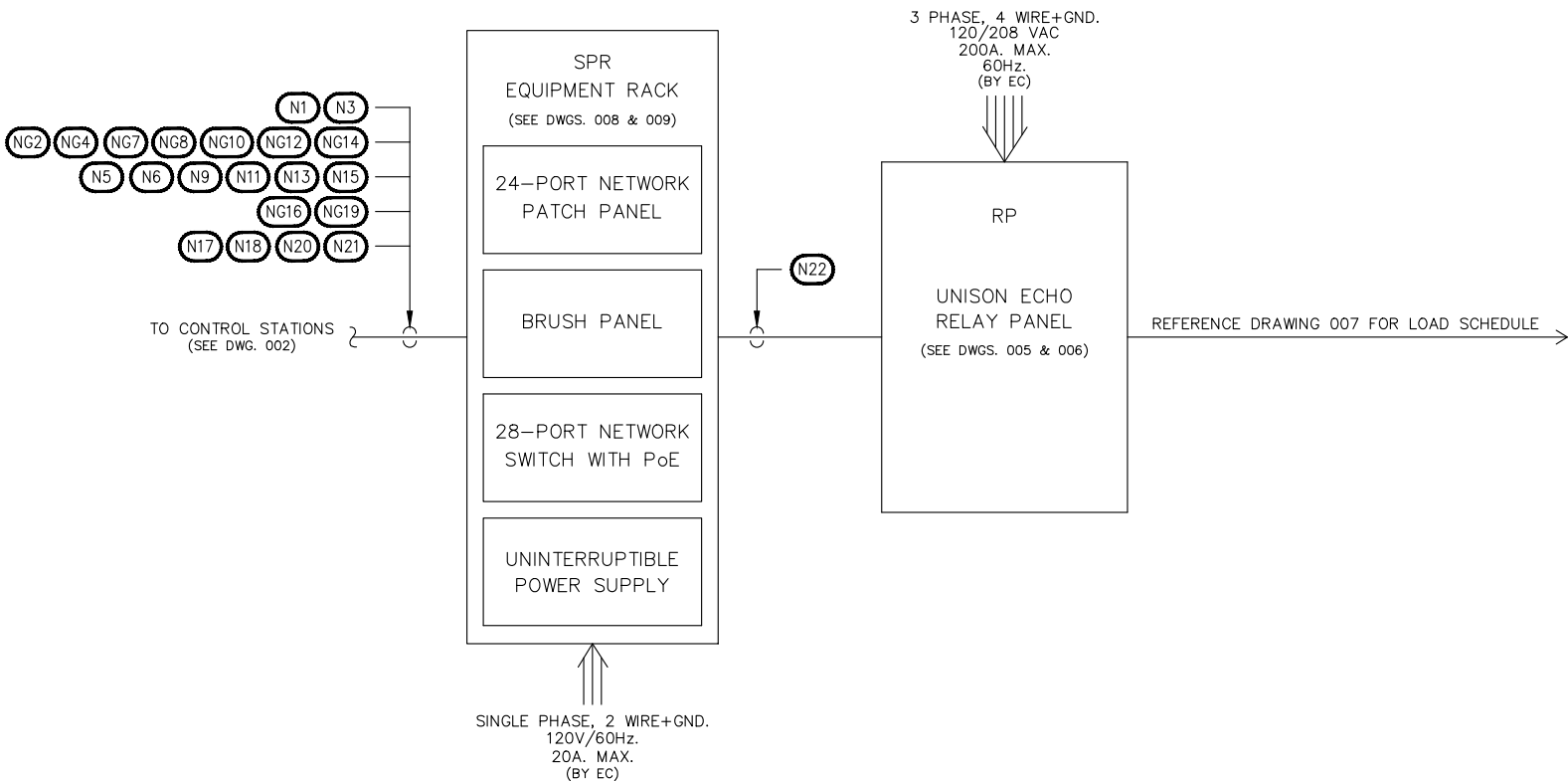
BL	01/03/18	SUBMITTAL
BY	DATE	REV.

JOB:
RICHARDSON HIGH SCHOOL
- RICHARDSON ISD

LOCATION:
RICHARDSON, TEXAS

JOB NUMBER:
15047957

DRAWING:
003



CONTROL WIRING LEGEND		
SYMBOL	WIRE TYPE(S)	SIGNAL
N*	(1) BELDEN #1583A	ETCNet (Cat5e)
NG*	(1) BELDEN #1583A (1) #14 AWG. STRANDED GND WIRE	ETCNet WITH GROUND (Cat5e)
* = WIRE IDENTIFICATION NUMBER (NOT QUANTITY)		

NOTES:

- 1.) ALL CONTROL WIRING IS PROVIDED BY EC UNLESS NOTED OTHERWISE.
- 2.) ALL ETCNet RUNS SHALL BE CONTINUOUS, UNSPLICED RUNS LESS THAN 250 FEET (76 METERS). ALL NETWORK CONNECTIONS TO BE TIA/EIA 568B.

CONTROL WIRING LEGEND

* = WIRE IDENTIFICATION NUMBER (NOT QUANTITY)

N*

(1) BELDEN #1583A
(ETCNet - Cat5e)

NG*

(1) BELDEN #1583A
(1) #14 AWG. STRANDED GND WIRE
(ETCNet WITH GROUND - Cat5e)

Start Termination Point

End Termination Point

Termination Point

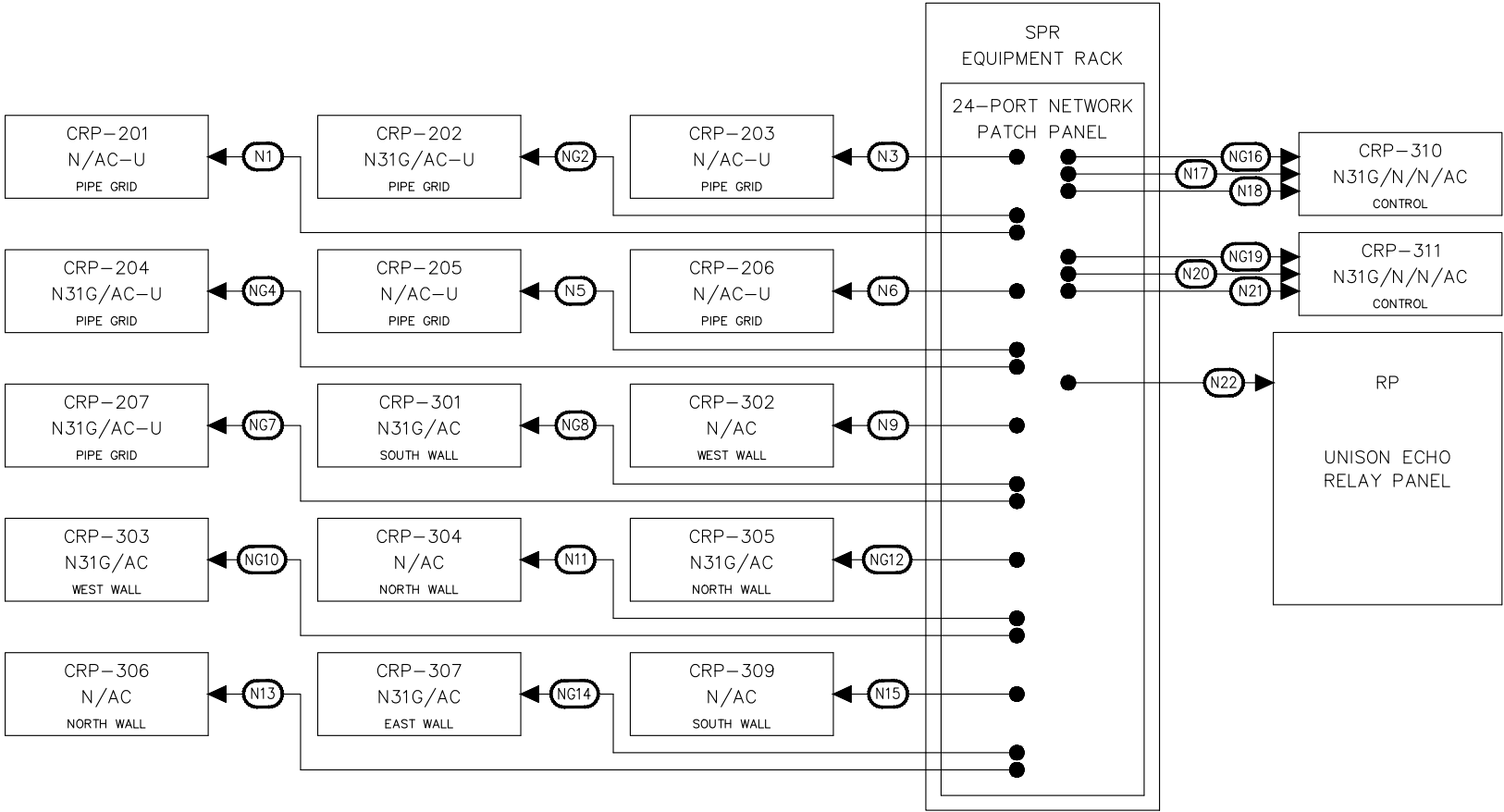
Splice

Pass through

NOTES:

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UNLESS NOTED OTHERWISE.

2.) ALL ETCNet RUNS SHALL BE CONTINUOUS, UNSPLICED RUNS
LESS THAN 250 FEET (76 METERS). ALL NETWORK
CONNECTIONS TO BE TIA/EIA 568B.



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ORIGINAL FILE:
WIRE DIAGRAM.DWG

CONTRACT WITH:
TEXAS SCENIC

REPRESENTATIVE:
HORTON CONTROLS GROUP

PROJECT MANAGER:
SHAWN FERNANDEZ

APPLICATIONS ENGINEER:
DAN BORUD

DRAWING TITLE:
ETCNet
CONTROL WIRING DIAGRAM

BL	01/03/18	SUBMITTAL
BY	DATE	REV.

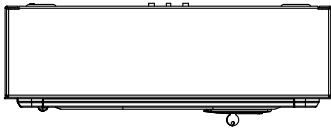
JOB:
RICHARDSON HIGH SCHOOL
- RICHARDSON ISD

LOCATION:
RICHARDSON, TEXAS

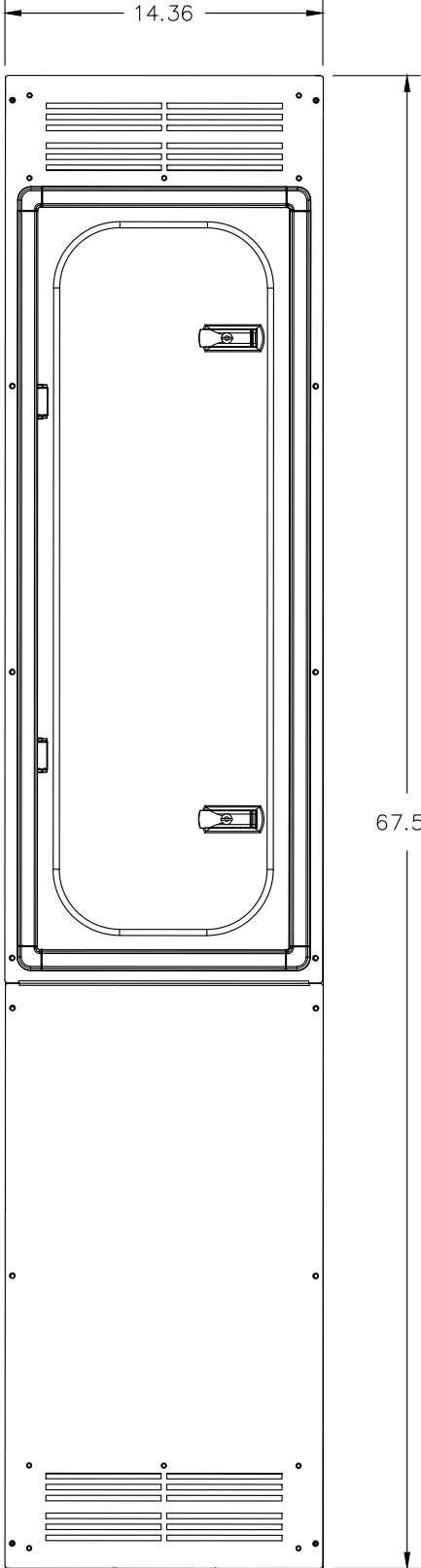
JOB NUMBER:
15047957

DRAWING:
004

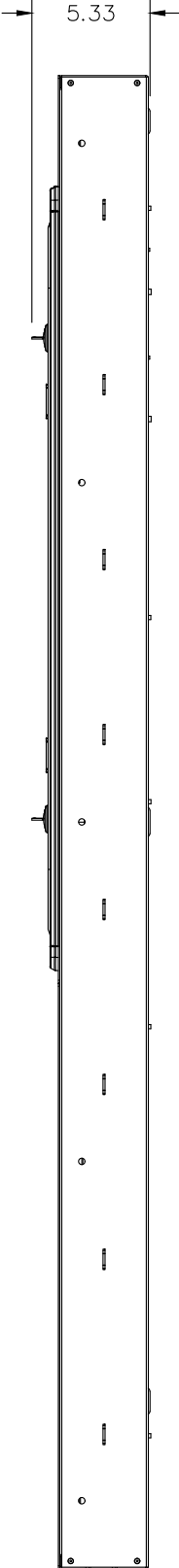
TOP VIEW



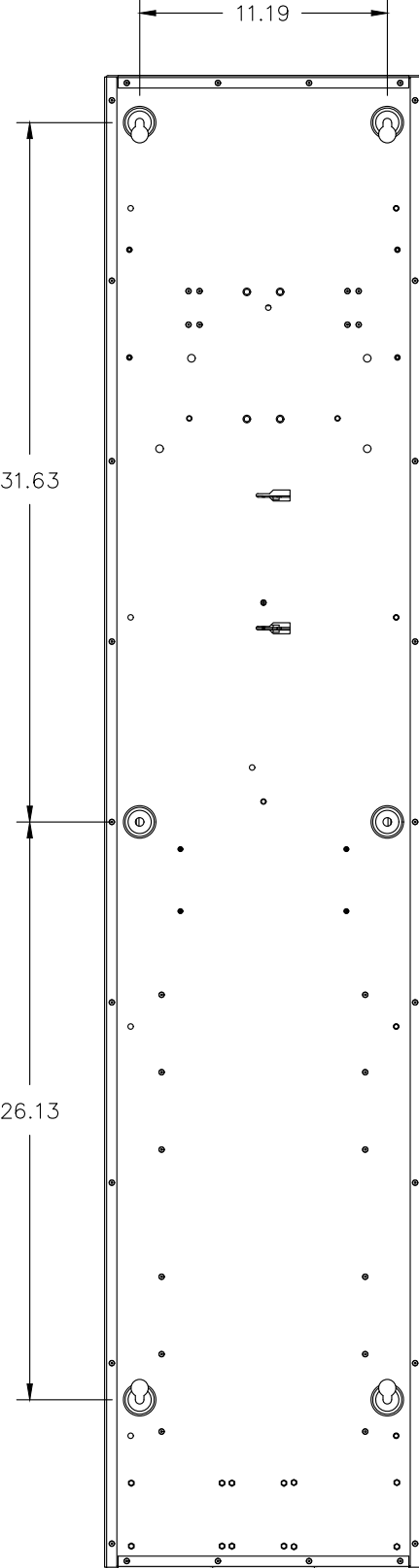
FRONT VIEW



SIDE VIEW




REAR VIEW



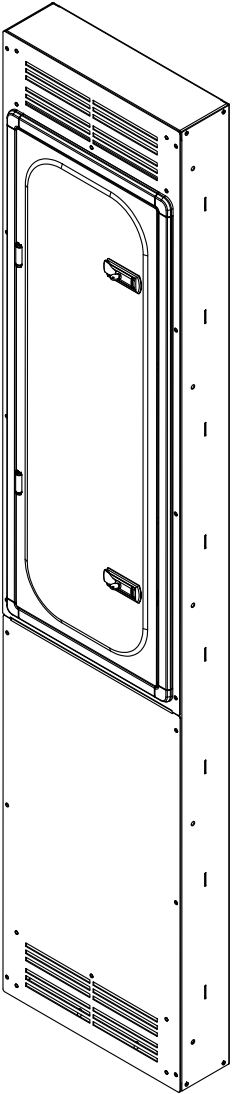
ITEM	QTY.	DESCRIPTION	DESIGNATION	PART NUMBER
A	1	15047957-005-A ERP-15R1-15B1		7123A1-ERPS400
B	1	ERP 120V SURFACE MOUNT DOOR KIT		7123A1701

NOTES:

- 1.) RELAY PANEL ENCLOSURE IS 16 GA. FORMED STEEL FINISHED IN A BLACK FINE-TEXTURED POWDER COAT.
- 2.) RELAY PANEL IS DESIGNED FOR TOP ACCESS LOAD AND FEED WIRING BUT CAN BE EASILY MODIFIED BY ROTATING CABINET TO ACCOMMODATE BOTTOM LOAD AND FEED WIRING.
- 3.) RELAY PANEL IS DESIGNED FOR 3-PHASE 120/208V 200A. MAX. MAIN LUG INPUT. SHORT CIRCUIT CURRENT RATING (SCCR) IS 10,000 AMPS.
- 4.) RELAY PANEL IS  LISTED.

ISOMETRIC VIEW

(5/8 SCALE)



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ORIGINAL FILE:
ECHO RELAY PANEL - 120.DWG

CONTRACT WITH:

TEXAS SCENIC

REPRESENTATIVE:

HORTON CONTROLS GROUP

PROJECT MANAGER:

SHAWN FERNANDEZ

APPLICATIONS ENGINEER:

DAN BORUD

DRAWING TITLE:

RP
RELAY PANEL (120V)

PHYSICAL

BL	01/03/18	SUBMITTAL
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BY	DATE	REV.
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JOB:

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005



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REPRESENTATIVE:

HORTON CONTROLS GROUP

PROJECT MANAGER:

SHAWN FERNANDEZ

APPLICATIONS ENGINEER:

DAN BORUD

DRAWING TITLE:

RP LOAD SCHEDULE

BL	01/03/18	SUBMITTAL
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JOB:

RICHARDSON HIGH SCHOOL
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LOCATION:

RICHARDSON, TEXAS

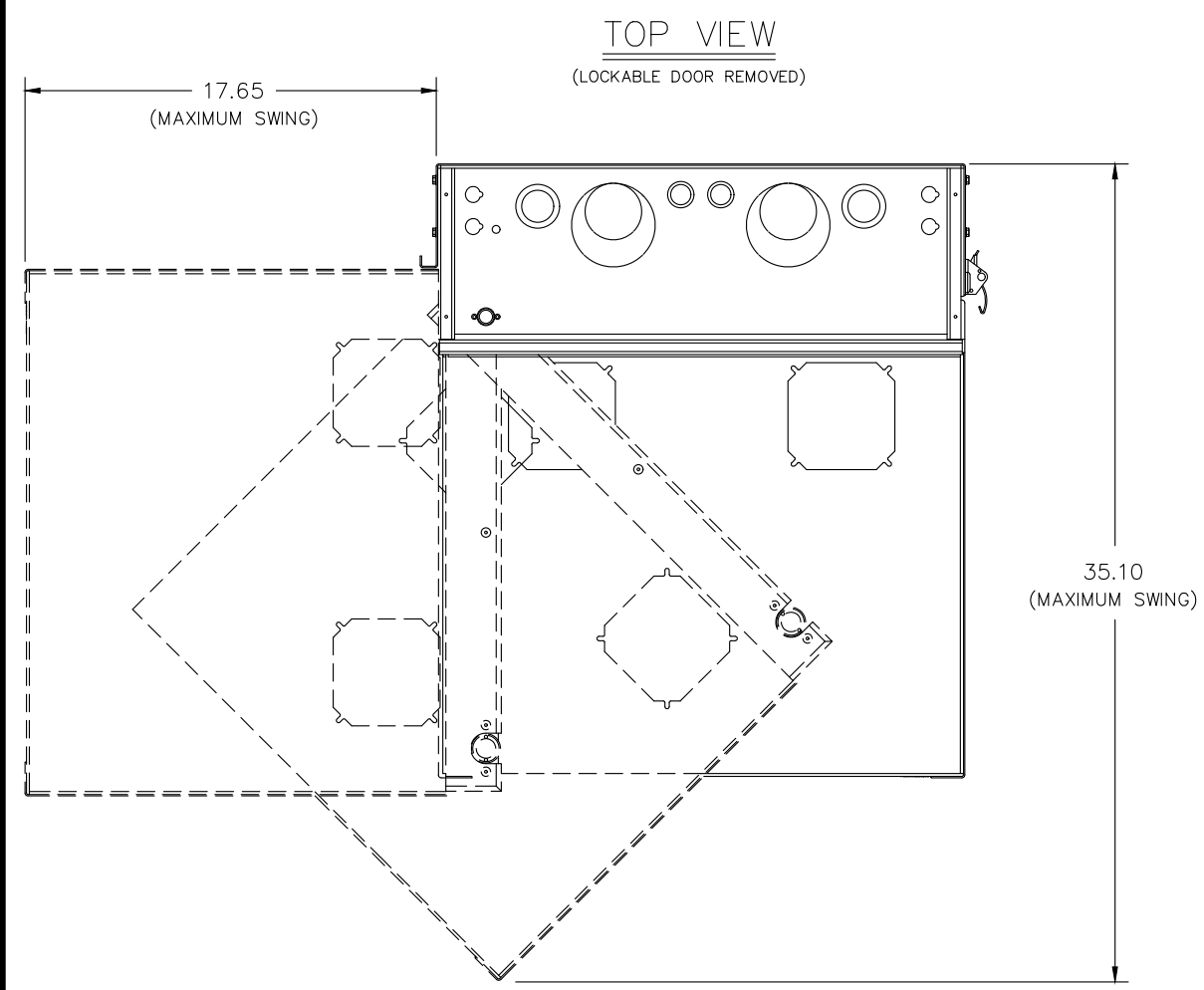
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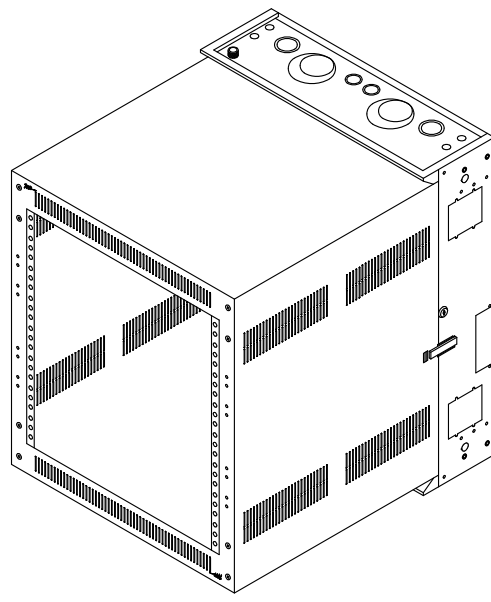
DRAWING:

007


RELAY NUMBER	VOLTAGE RATING	DMX ADDRESS	LOAD DESCRIPTION	LOAD LOCATION	RELAY RATING	LOAD PER CIRCUIT (VA)
1	120	1	PRODUCTION LT.	CRP 201	20 A	
2	120	2	PRODUCTION LT.	CRP 202	20 A	
3	120	3	PRODUCTION LT.	CRP 203	20 A	
4	120	4	PRODUCTION LT.	CRP 204	20 A	
5	120	5	PRODUCTION LT.	CRP 205	20 A	
6	120	6	PRODUCTION LT.	CRP 206	20 A	
7	120	7	PRODUCTION LT.	CRP 207	20 A	
8	120	8	PRODUCTION LT.	CRP 309	20 A	
9	120	9	PRODUCTION LT.	CRP 301	20 A	
10	120	10	PRODUCTION LT.	CRP 302	20 A	
11	120	11	PRODUCTION LT.	CRP 303	20 A	
12	120	12	PRODUCTION LT.	CRP 304	20 A	
13	120	13	PRODUCTION LT.	CRP 305	20 A	
14	120	14	PRODUCTION LT.	CRP 306	20 A	
15	120	15	PRODUCTION LT.	CRP 307	20 A	

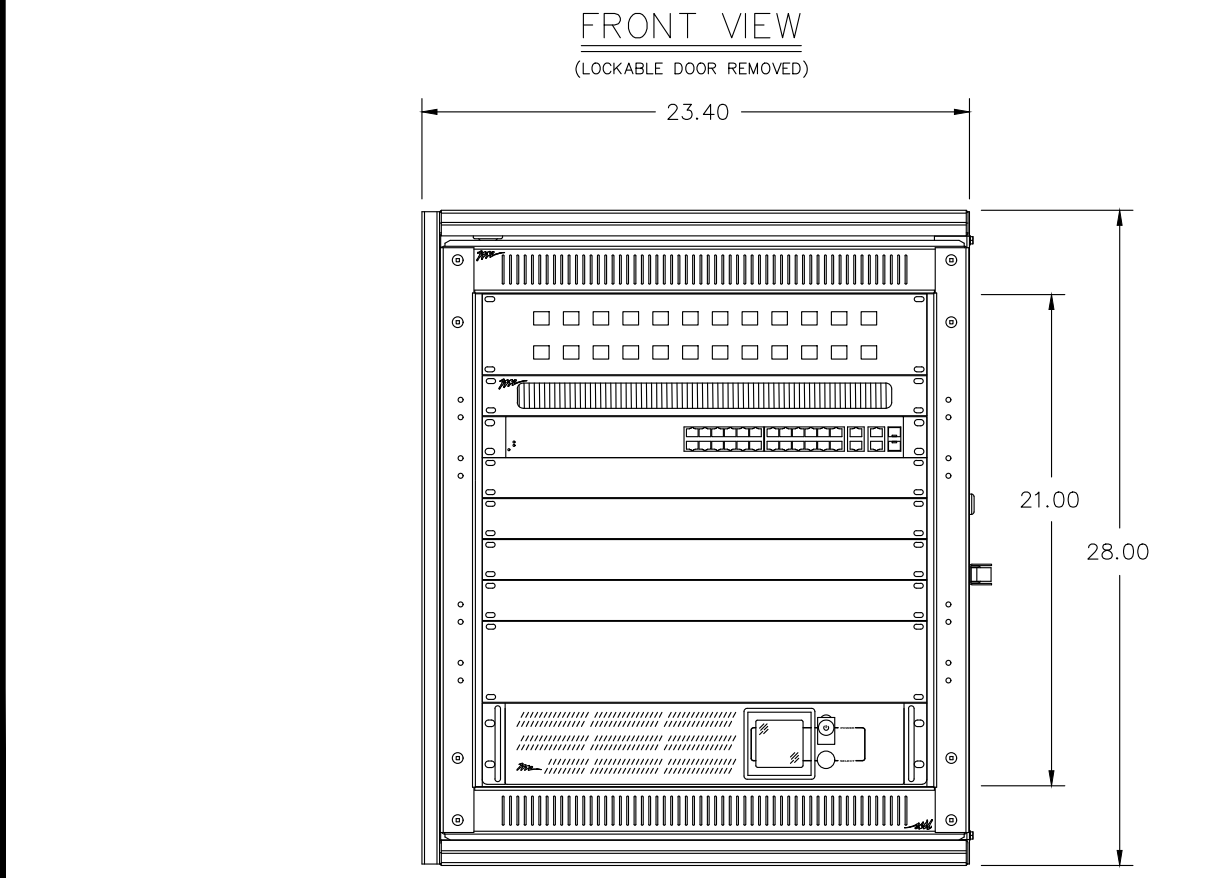


ISOMETRIC VIEW
(1/2 SCALE)
(LOCKABLE DOOR AND PANELS REMOVED)

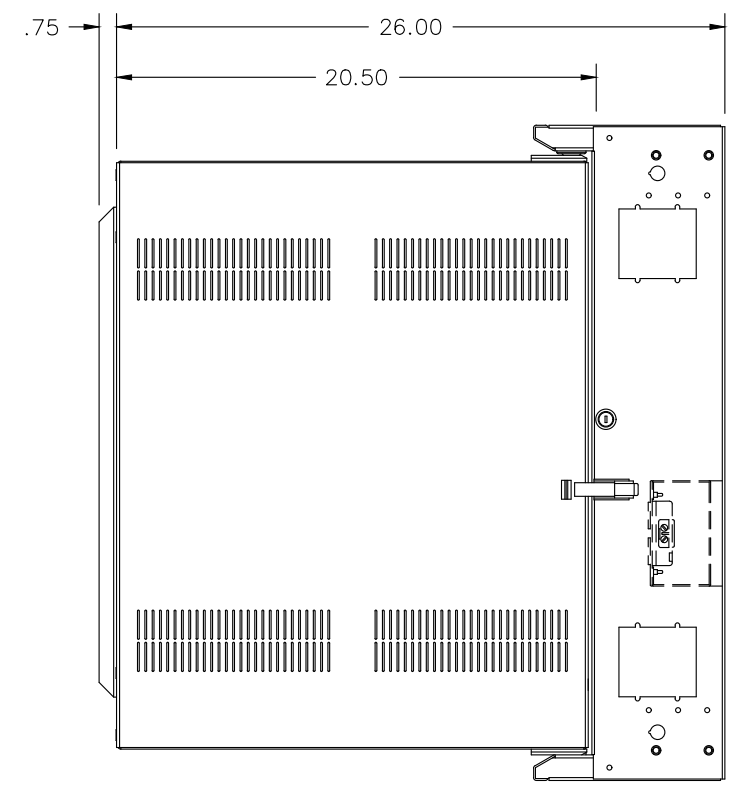



PARTS LIST			
ITEM	QTY.	DESCRIPTION	PART NUMBER
A	1	12U WALL RACK CENTER SECTION 20.5" USEABLE	PJE1090
B	1	12U WALL RACK, BACK PAN	PJE1091-FIN
C	1	15047957-008-C HARDWARE KIT	TL47957-ARCH1
D	1	LOCKABLE FRONT DOOR; 12U, MAP-FD-12	PJE1070
E	1	24-PORT NETWORK PATCH PANEL	-----
F	1	1U BRUSH PANEL	SGE1061
G	1	28-PORT NETWORK SWITCH	-----
H	1	UNINTERRUPTIBLE POWER SUPPLY	-----

- NOTES:
- EQUIPMENT RACK IS  LISTED.
 - EQUIPMENT RACK IS MANUFACTURED BY MIDDLE ATLANTIC PRODUCTS, INC. AND ALL PHYSICAL SPECIFICATIONS SHALL PERTAIN TO MIDDLE ATLANTIC PRODUCTS, INC. MODEL DWR-12-26.
 - EQUIPMENT RACK IS 16 GA. STEEL FINISHED IN A TEXTURED BLACK BAKED ENAMEL.
 - EQUIPMENT RACK SHALL BE WALL-MOUNTABLE AND SHALL CONTAIN CONDUIT KNOCKOUTS ON ALL SIDES FOR EASY WIRING ACCESS.



SIDE VIEW





ETC, Inc.

3031 Pleasant View Rd
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Toll Free +1 800 688 4116
Fax +1 608 836 1736
etcconnect.com

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES.

ORIGINAL FILE:
MAP-DWR-12-26.DWG

CONTRACT WITH:
TEXAS SCENIC

REPRESENTATIVE:
HORTON CONTROLS GROUP

PROJECT MANAGER:
SHAWN FERNANDEZ

APPLICATIONS ENGINEER:
DAN BORUD

DRAWING TITLE:
SPR
EQUIPMENT RACK

PHYSICAL

BL	01/03/18	SUBMITTAL
BY	DATE	REV.

JOB:
RICHARDSON HIGH SCHOOL
- RICHARDSON ISD

LOCATION:
RICHARDSON, TEXAS

JOB NUMBER:
15047957

DRAWING:
008



ETC, Inc.

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Toll Free +1 800 688 4116
Fax +1 608 836 1736
etcconnect.com

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES.

ORIGINAL FILE:
MAP-DWR-12-26.DWG

CONTRACT WITH:
TEXAS SCENIC

REPRESENTATIVE:
HORTON CONTROLS GROUP

PROJECT MANAGER:
SHAWN FERNANDEZ

APPLICATIONS ENGINEER:
DAN BORUD

DRAWING TITLE:
SPR
EQUIPMENT RACK

ELECTRICAL

BL	01/03/18	SUBMITTAL
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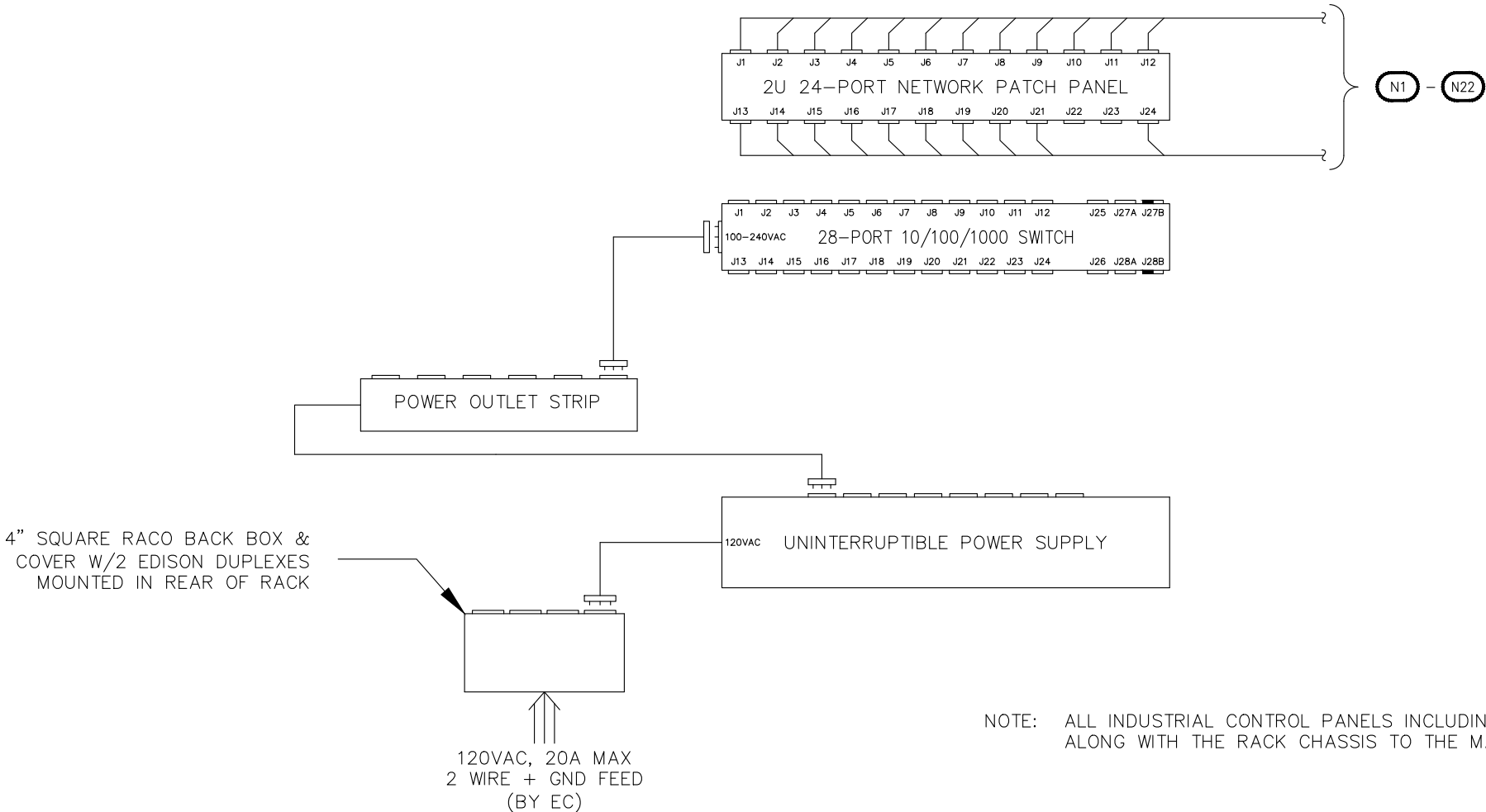
BY	DATE	REV.
----	------	------

JOB:
RICHARDSON HIGH SCHOOL
- RICHARDSON ISD

LOCATION:
RICHARDSON, TEXAS

JOB NUMBER:
15047957

DRAWING:
009



PARTS LIST			DESIGNATION	PART NUMBER
ITEM	QTY.	DESCRIPTION		
A	1	15047957-010-A 24 PORT PATCH PANEL		TL47957-ARCH2
B	22	CAT5e CONNECTOR, 8-POSITION		N2027
C	2	SNAP-IN BLANK, BLACK	HUBBELL™ SFB10	PJE1021
D	22	CAT5e CABLE RJ45 UTP 2FT	(NOT SHOWN)	N4035



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etconnect.com

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES.

ORIGINAL FILE:
PATCH-PANEL-24.DWG

CONTRACT WITH:
TEXAS SCENIC

REPRESENTATIVE:
HORTON CONTROLS GROUP

PROJECT MANAGER:
SHAWN FERNANDEZ

APPLICATIONS ENGINEER:
DAN BORUD

DRAWING TITLE:
24-PORT
NETWORK PATCH PANEL

PHYSICAL

BL	01/03/18	SUBMITTAL
BY	DATE	REV.

JOB:
RICHARDSON HIGH SCHOOL
- RICHARDSON ISD

LOCATION:
RICHARDSON, TEXAS

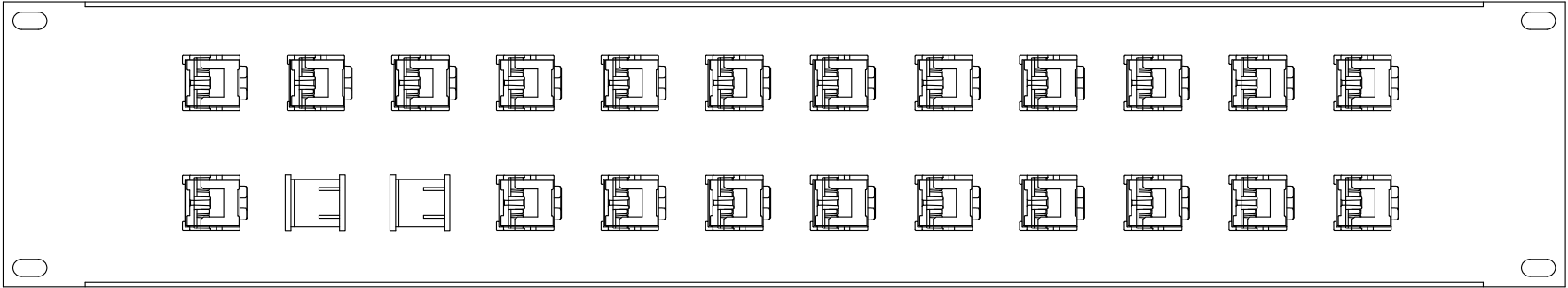
JOB NUMBER:
15047957

DRAWING:
010

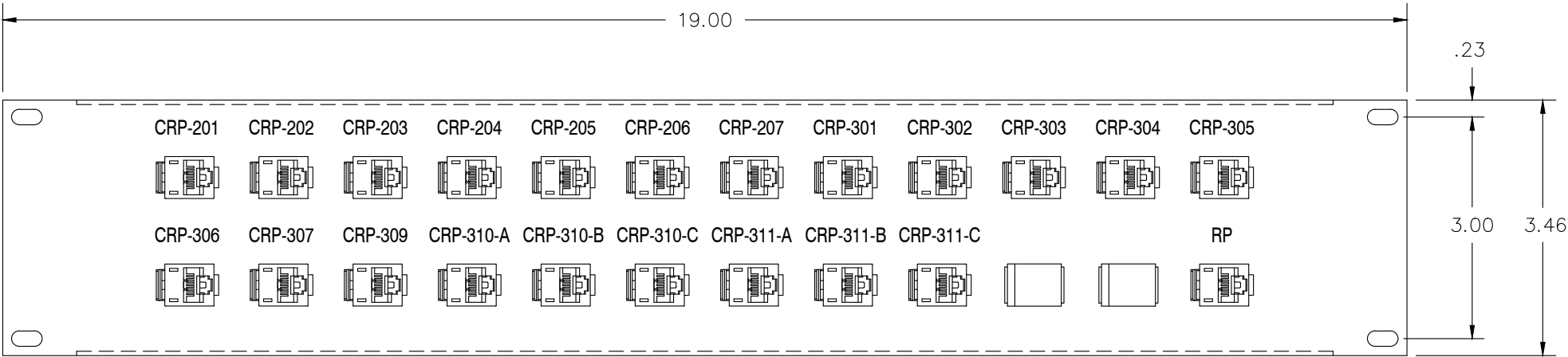
NOTES:

- 1.) PATCH PANEL IS .06 ALUMINUM FINISHED IN
A BLACK FINE-TEXTURED POWDER COAT.
- 2.) ALL NOMENCLATURE IS ENGRAVED IN WHITE.

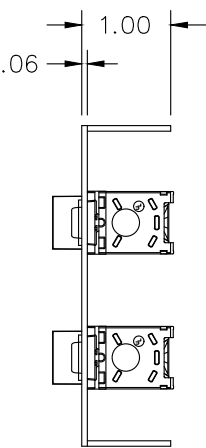
REAR VIEW



FRONT VIEW



SIDE VIEW

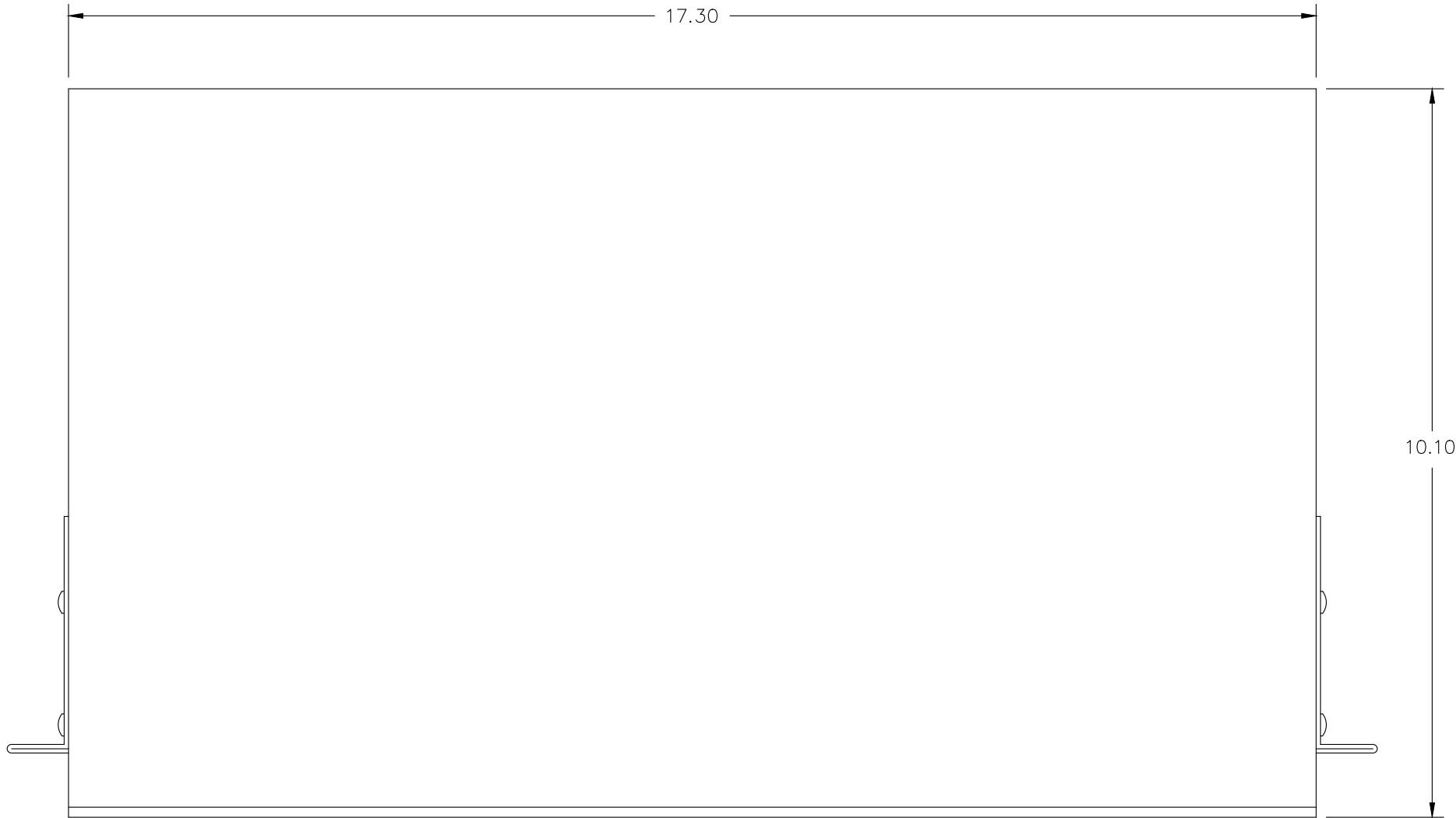


PARTS LIST			
ITEM	QTY.	DESCRIPTION	PART NUMBER
A	1	28-PORT 10/100/1000 GIGABIT POE+ SWITCH	SGN1129-M

DESIGNATION
CISCO/SG300-28PP-K9-NA

PART NUMBER
SGN1129-M

TOP VIEW

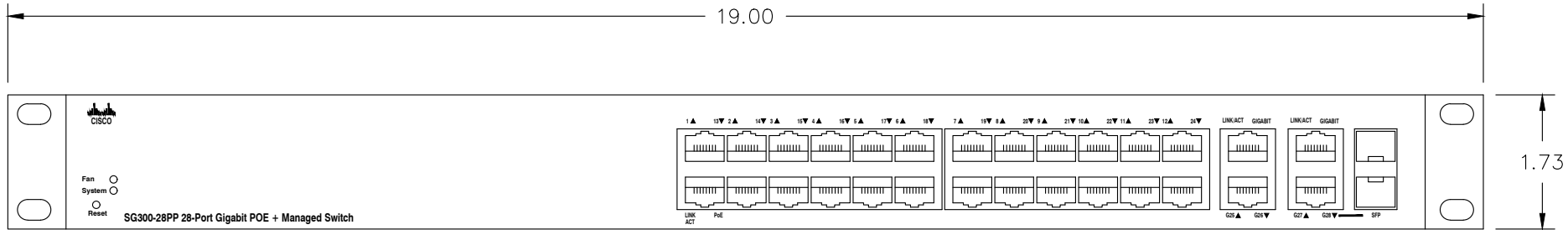


NOTES:

- 1.) NETWORK SWITCH IS MANUFACTURED BY CISCO SYSTEMS, INC. ALL DETAILS AND FEATURES SHALL PERTAIN TO CISCO SYSTEMS, INC. MODEL #SG300-28PP-K9-NA SPECIFICATIONS.
- 2.) NETWORK SWITCH IS PROVIDED WITH THE FOLLOWING:
- POWER CABLE
 - SERIAL DATA CABLE
 - EIA-COMPLIANT RACK-MOUNTING HARDWARE
 - CD-ROM USER DOCUMENTATION
 - QUICK START GUIDE
- 3.) NETWORK SWITCH MEETS OR EXCEEDS REQUIREMENTS FOR EACH OF THE FOLLOWING STANDARDS:



FRONT VIEW



ETC, Inc.

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PO Box 620979
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Tel +1 608 831 4116
Toll Free +1 800 688 4116
Fax +1 608 836 1736
etcconnect.com

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES.

ORIGINAL FILE:
CISCO SG300-28PP.DWG

CONTRACT WITH:
TEXAS SCENIC

REPRESENTATIVE:
HORTON CONTROLS GROUP

PROJECT MANAGER:
SHAWN FERNANDEZ

APPLICATIONS ENGINEER:
DAN BORUD

DRAWING TITLE:
CISCO SG300-28PP
28-PORT NETWORK SWITCH

PHYSICAL

BL	01/03/18	SUBMITTAL
BY	DATE	REV.

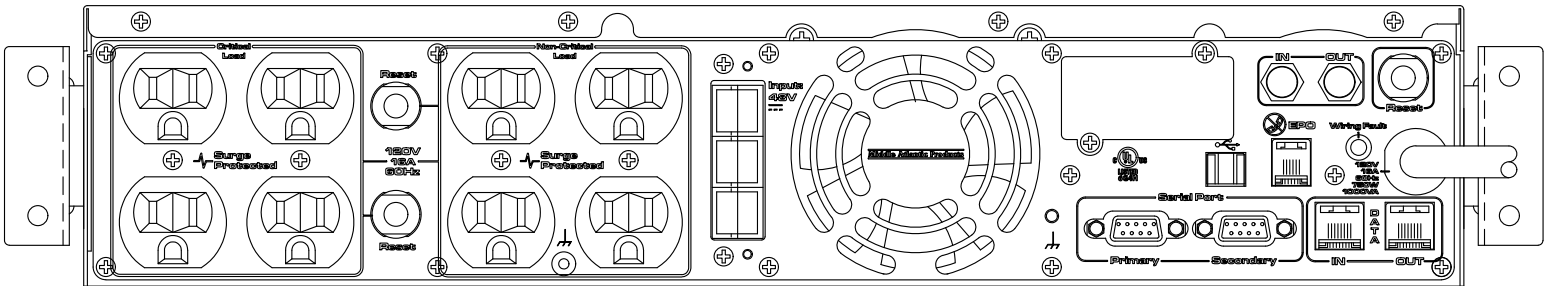
JOB:
RICHARDSON HIGH SCHOOL
- RICHARDSON ISD

LOCATION:
RICHARDSON, TEXAS

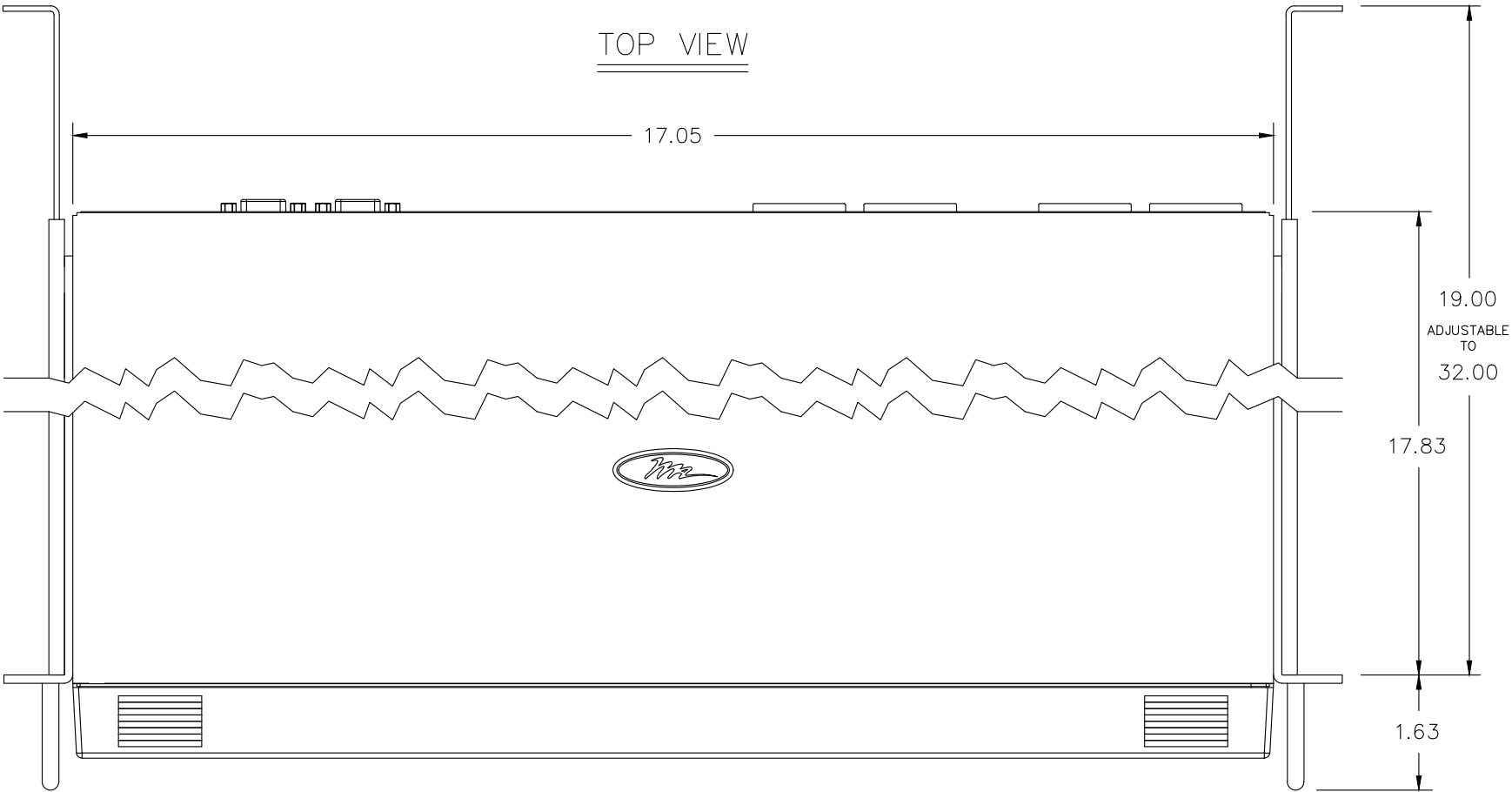
JOB NUMBER:
15047957

DRAWING:
011

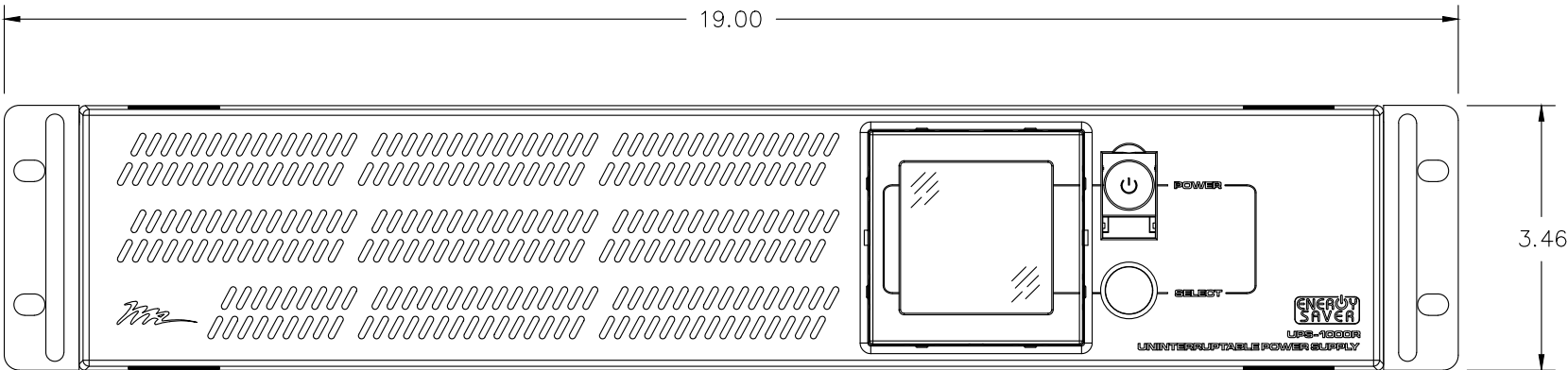
REAR VIEW



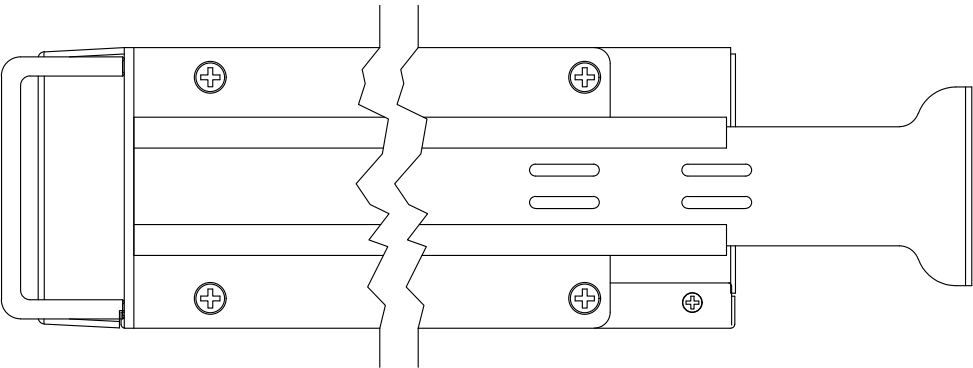
TOP VIEW



FRONT VIEW



SIDE VIEW



PARTS LIST		DESCRIPTION	DESIGNATION	PART NUMBER
ITEM	QTY.			
A	1	1000VA UNINTERRUPTIBLE POWER SUPPLY	MAP/UPS-1000R	PJPS1012

NOTES:

- 1.) UNINTERRUPTIBLE POWER SUPPLY IS MANUFACTURED BY MIDDLE ATLANTIC PRODUCTS AND ALL SPECIFICATIONS SHALL PERTAIN TO MAP MODEL #UPS-1000R.
- 2.) UNINTERRUPTIBLE POWER SUPPLY INCLUDES:
- RACK-MOUNTING HARDWARE (SHOWN)
 - SERIAL & ETHERNET CABLES
 - USER'S GUIDE
 - 9' POWER CORD (ATTACHED)
- 3.) UNINTERRUPTIBLE POWER SUPPLY MEETS OR EXCEEDS REQUIREMENTS FOR THE FOLLOWING MARKINGS:



RoHS
2002/95/EC
COMPLIANT



ETC, Inc.

3031 Pleasant View Rd
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Toll Free +1 800 688 4116
Fax +1 608 836 1736
etcconnect.com

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES.

ORIGINAL FILE:
MAP-UPS-RACK.DWG

CONTRACT WITH:
TEXAS SCENIC

REPRESENTATIVE:
HORTON CONTROLS GROUP

PROJECT MANAGER:
SHAWN FERNANDEZ

APPLICATIONS ENGINEER:
DAN BORUD

DRAWING TITLE:
MIDDLE ATLANTIC PRODUCTS
UNINTERRUPTIBLE POWER SUPPLY

PHYSICAL

BL	01/03/18	SUBMITTAL
BY	DATE	REV.

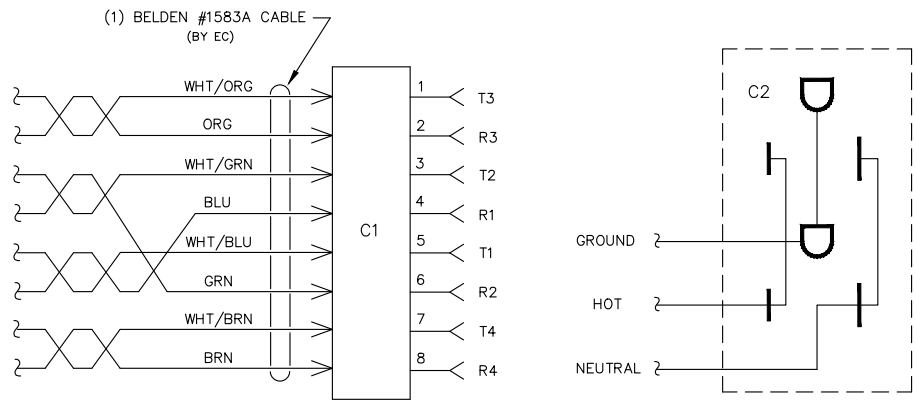
JOB:
RICHARDSON HIGH SCHOOL
- RICHARDSON ISD

LOCATION:
RICHARDSON, TEXAS

JOB NUMBER:
15047957

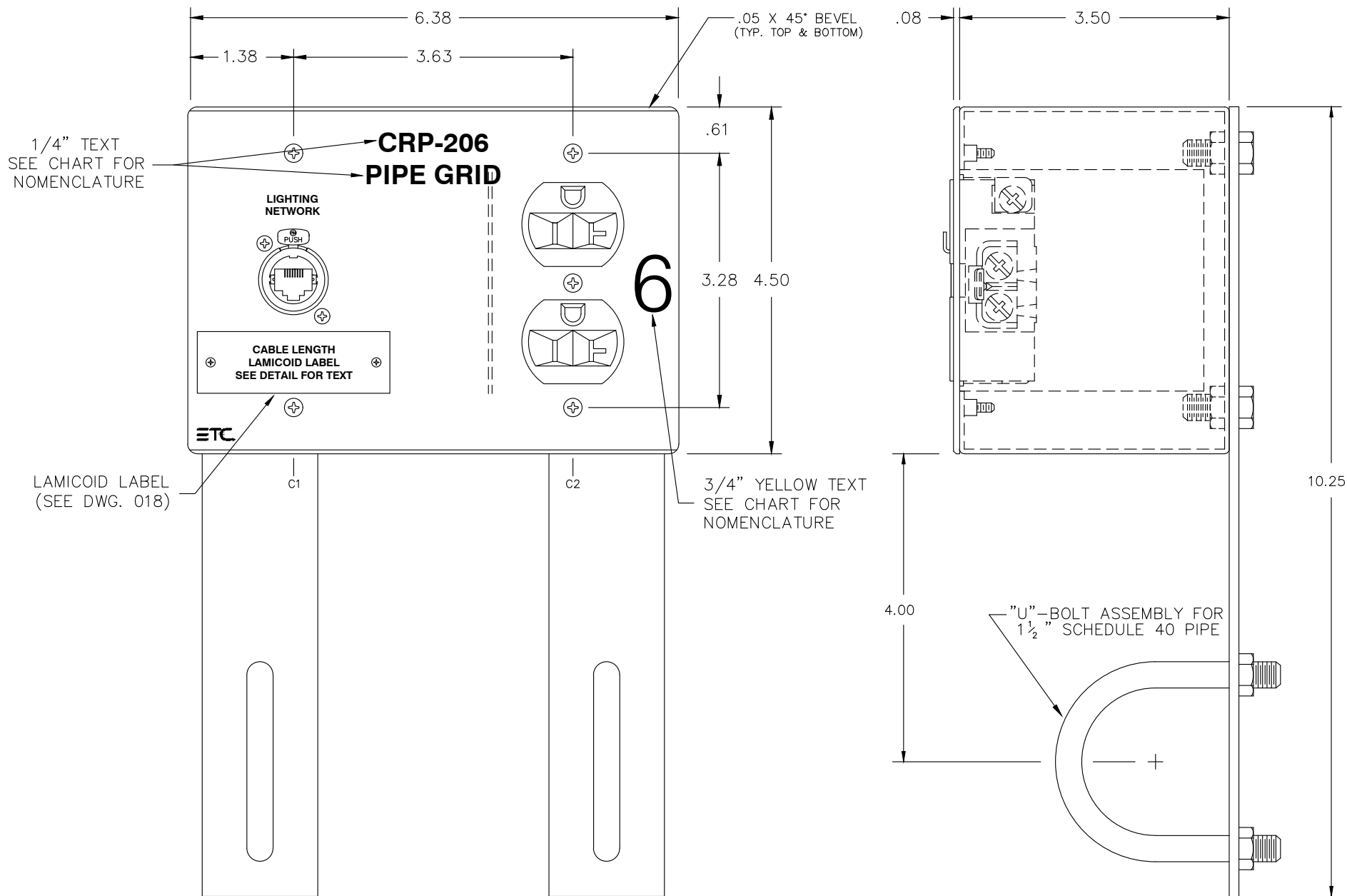
DRAWING:
012

ELECTRICAL DIAGRAM



FRONT VIEW

SIDE VIEW



PARTS LIST

ITEM	QTY.	DESCRIPTION	DESIGNATION	PART NUMBER
A	4	15047957-013+-A CRP N/AC		TL47957-ARCH3
B	4	THREE-GANG SURFACE MOUNTED BACK BOX	4.50" X 6.375" X 3.50"	1064A1039
C	4	15047957-013+-C ABOVE PIPE MOUNT KIT		TL47957-ARCH4

NOTES:

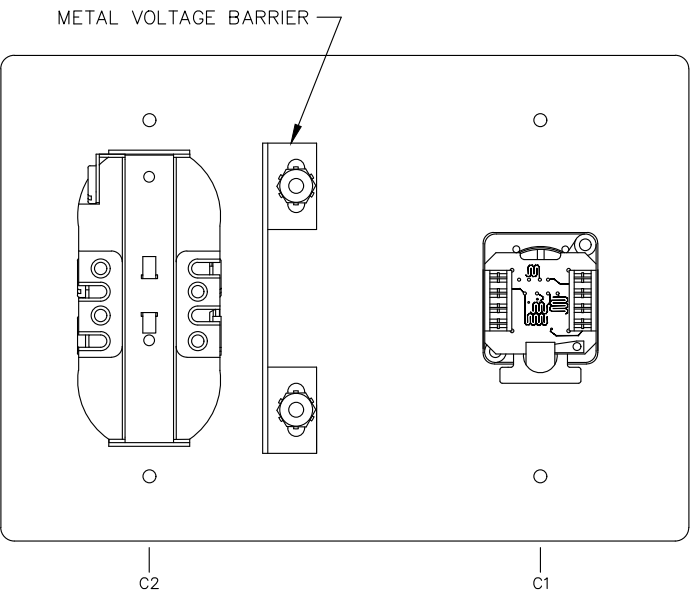
- 1.) FACE PANEL IS .08 ALUMINUM FINISHED IN A BLACK FINE-TEXTURED POWDER COAT.
- 2.) ALL NOMENCLATURE IS ENGRAVED IN WHITE.
- 3.) BACK BOX IS CONSTRUCTED OF 16 GA. STEEL AND IS FINISHED IN A BLACK FINE-TEXTURED POWDER COAT.
- 4.) ETCNet LAMICOID LABEL IS SHOWN FOR REFERENCE ONLY. LAMICOID LABEL DOES NOT SHIP ATTACHED TO PANEL.
- 5.) EDISON DUPLEX CIRCUITS ARE DESIGNATED WITH .75" YELLOW ENGRAVED TEXT.

NOMENCLATURE CHART

DEVICE	LOCATION	(C2)
CRP-201	PIPE GRID	1
CRP-203	PIPE GRID	3
CRP-205	PIPE GRID	5
CRP-206	PIPE GRID	6

REAR VIEW

(BACK BOX REMOVED)



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etcconnect.com

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES.

ORIGINAL FILE:

CONTRACT WITH:

TEXAS SCENIC

REPRESENTATIVE:

HORTON CONTROLS GROUP

PROJECT MANAGER:

SHAWN FERNANDEZ

APPLICATIONS ENGINEER:

DAN BORUD

DRAWING TITLE:

CRP-201/203/205/206
PLUG-IN STATION

PHYSICAL & ELECTRICAL

BL 01/03/18 SUBMITTAL

BY DATE REV.

JOB:

RICHARDSON HIGH SCHOOL
- RICHARDSON ISD

LOCATION:

RICHARDSON, TEXAS

JOB NUMBER:

15047957

DRAWING:

013

Technical drawing of the CRP-207 Pipe Grid, showing dimensions and components.

Dimensions:

- Overall width: 6.38
- Distance from left edge to center of top-left screw: 1.38
- Distance from center of top-left screw to center of top-right screw: 3.63
- Top edge chamfer: .05 X 45° BEVEL (TYP. TOP & BOTTOM)
- Distance from top edge to center of top-right screw: .61
- Distance from center of top-right screw to center of middle-right screw: 3.28
- Distance from center of middle-right screw to center of bottom-right screw: 4.50

Components and Labels:

- CRP-207 PIPE GRID** (Main title)
- 1/4" TEXT SEE CHART FOR NOMENCLATURE** (Points to top-left screw)
- POWER** (Symbol: circle with wavy line)
- NETWORK** (Symbol: circle with horizontal line)
- DATA** (Symbol: circle with horizontal line)
- PUSH** (Symbol: circle with plus sign)
- ETC** (Bottom left corner)
- 7** (Large number, points to middle-right screw)
- 3/4" YELLOW TEXT SEE CHART FOR NOMENCLATURE** (Points to middle-right screw)
- C1** (Label for the bottom-right screw)

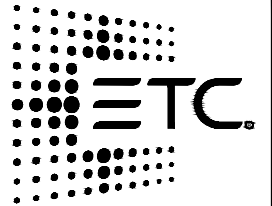
Technical drawing of a rectangular enclosure. The overall width is 3.50 and the overall height is 10.2. A dashed line indicates the internal dimensions. The enclosure features a door on the left side with a handle. The door is 4.00 high and .08 wide. The enclosure is secured with four bolts, one on each side. A detail view shows a "U"-BOLT ASSEMBLY FOR 1 1/2" SCHEDULE 40 PIPE, which is used to secure the enclosure to a surface.

ITEM	QTY.	DESCRIPTION	DESIGNATION	PART NUMBER
A	3	15047957-0144-A CRP N31G/AC		TL47957-ARCH5
B	3	THREE-GANG SURFACE MOUNTED BACK BOX	4.50" X 6.375" X 3.50"	1064A1039
C	3	15047957-013+-C ABOVE PIPE MOUNT KIT		TL47957-ARCH4

- 1.) FACE PANEL IS .08 ALUMINUM FINISHED IN A BLACK FINE-TEXTURED POWDER COAT.
- 2.) ALL NOMENCLATURE IS ENGRAVED IN WHITE.
- 3.) BACK BOX IS CONSTRUCTED OF 16 GA. STEEL AND IS FINISHED IN A BLACK FINE-TEXTURED POWDER COAT.
- 4.) EDISON DUPLEX CIRCUITS ARE DESIGNATED WITH .75" YELLOW ENGRAVED TEXT.

DEVICE	LOCATION	(C1)
CRP-202	PIPE GRID	2
CRP-204	PIPE GRID	4
CRP-207	PIPE GRID	7

(BACK BOX REMOVED)



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etconnect.com**

**UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES.**

ORIGINAL FILE:

CONTRACT WITH:

TEXAS SCENIC

REPRESENTATIVE:

HORTON CONTROLS GROUP

PROJECT MANAGER:

SHAWN FERNANDEZ

APPLICATIONS ENGINEER:

DAN BORUD

DRAWING TITLE:

CRP-202/204/207
PLUG-IN STATION

PHYSICAL & ELECTRICAL

BL	01/03/18	SUBMITTAL
BY	DATE	REV.

JOB:

RICHARDSON HIGH SCHOOL
- RICHARDSON ISD

LOCATION:

RICHARDSON, TEXAS

JOB NUMBER:

15047957

DRAWING:

014

PARTS LIST			
ITEM	QTY.	DESCRIPTION	DESIGNATION
A	4	15047957-014+-A CRP N31G/AC	
			PART NUMBER
			TL47957-ARCH5



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etcconnect.com

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES.

ORIGINAL FILE:

CONTRACT WITH:

TEXAS SCENIC

REPRESENTATIVE:

HORTON CONTROLS GROUP

PROJECT MANAGER:

SHAWN FERNANDEZ

APPLICATIONS ENGINEER:

DAN BORUD

DRAWING TITLE:

CRP-301/303/305/307
PLUG-IN STATION

PHYSICAL & ELECTRICAL

BL 01/03/18 SUBMITTAL

BY DATE REV.

JOB:

RICHARDSON HIGH SCHOOL
- RICHARDSON ISD

LOCATION:

RICHARDSON, TEXAS

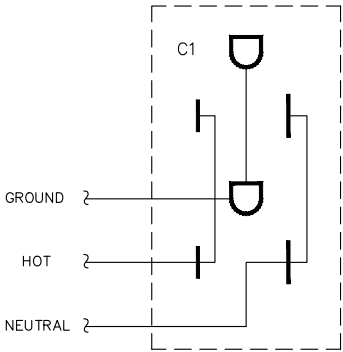
JOB NUMBER:

15047957

DRAWING:

015

ELECTRICAL DIAGRAM



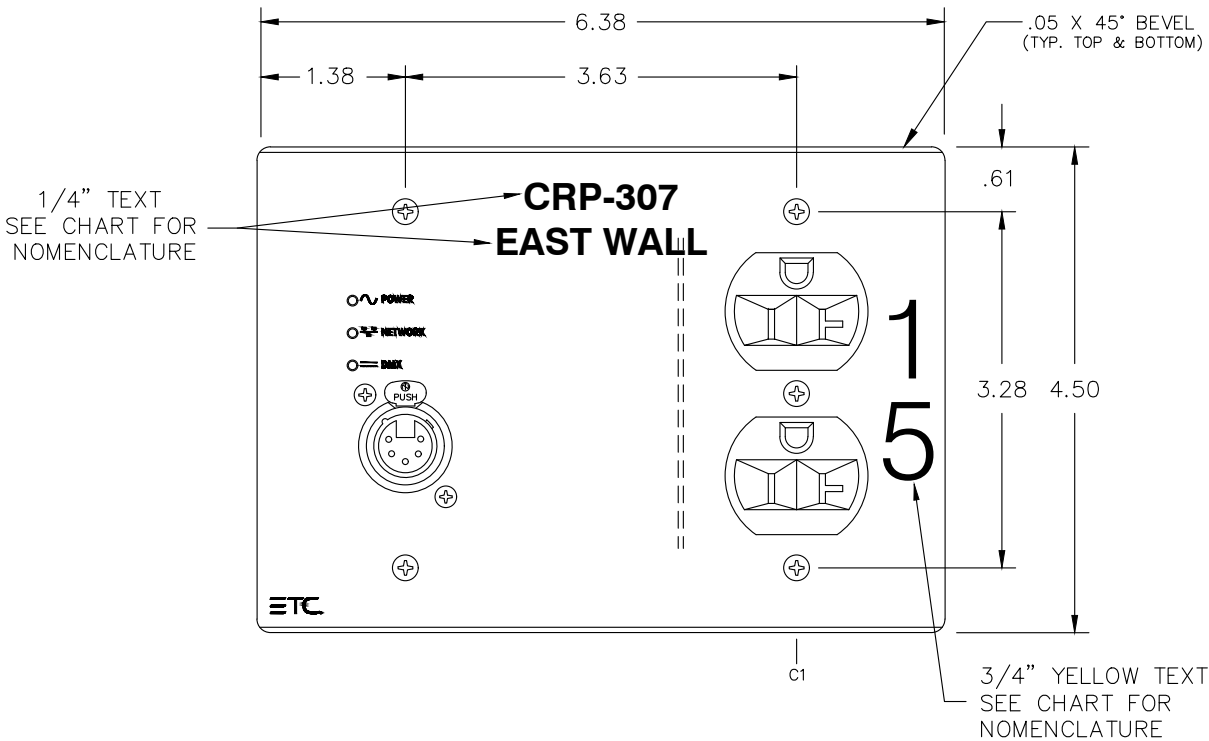
NOTES:

- 1.) FACE PANEL IS .08 ALUMINUM FINISHED IN A BLACK FINE-TEXTURED POWDER COAT.
- 2.) ALL NOMENCLATURE IS ENGRAVED IN WHITE.
- 3.) BACK BOX SHALL BE THREE GANG 3.50" DEEP RACO #697 (OR EQUIVALENT), AND IS SUPPLIED BY OTHERS. GANGABLE BACK BOX IS NOT ACCEPTABLE.
- 4.) EDISON DUPLEX CIRCUITS ARE DESIGNATED WITH .75" YELLOW ENGRAVED TEXT.

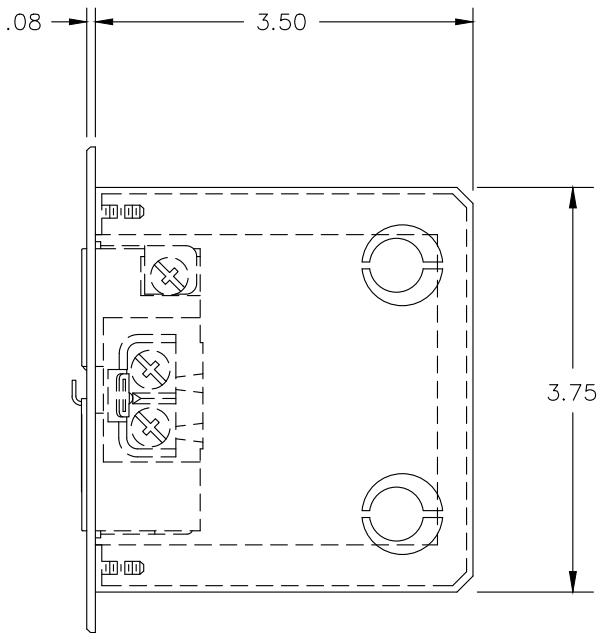
NOMENCLATURE CHART

DEVICE	LOCATION	(C1)
CRP-301	SOUTH WALL	9
CRP-303	WEST WALL	11
CRP-305	NORTH WALL	13
CRP-307	EAST WALL	15

FRONT VIEW

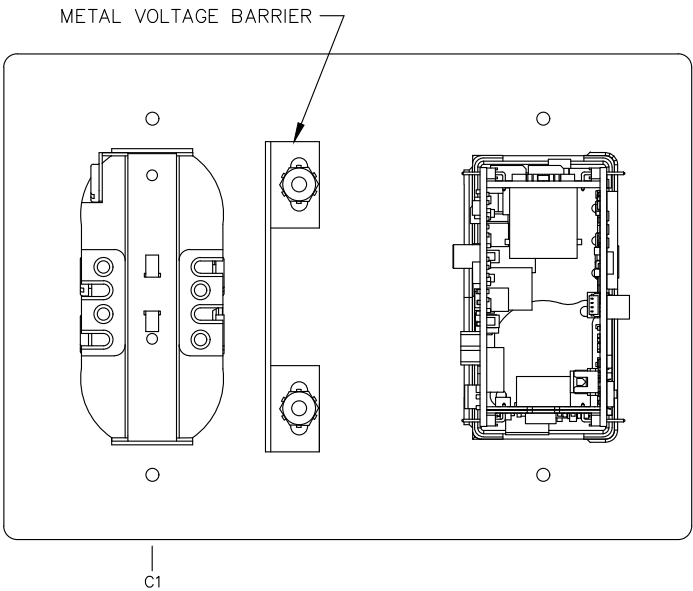


SIDE VIEW



REAR VIEW

(BACK BOX REMOVED)



PARTS LIST			
ITEM	QTY.	DESCRIPTION	PART NUMBER
A	4	15047957-013+-A CRP N/AC	TL47957-ARCH3



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Toll Free +1 800 688 4116
Fax +1 608 836 1736
etcconnect.com

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES.

ORIGINAL FILE:

CONTRACT WITH:

TEXAS SCENIC

REPRESENTATIVE:

HORTON CONTROLS GROUP

PROJECT MANAGER:

SHAWN FERNANDEZ

APPLICATIONS ENGINEER:

DAN BORUD

DRAWING TITLE:

CRP-302/304/306/309
PLUG-IN STATION

PHYSICAL & ELECTRICAL

BL	01/03/18	SUBMITTAL
BY	DATE	REV.

JOB:

RICHARDSON HIGH SCHOOL
- RICHARDSON ISD

LOCATION:

RICHARDSON, TEXAS

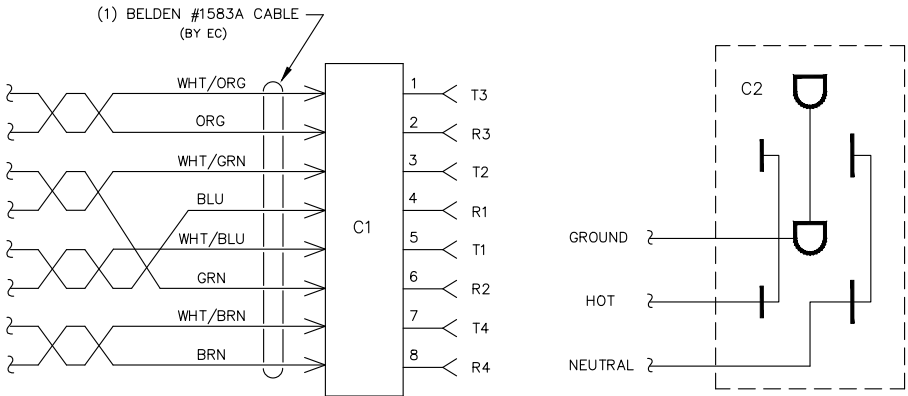
JOB NUMBER:

15047957

DRAWING:

016

ELECTRICAL DIAGRAM



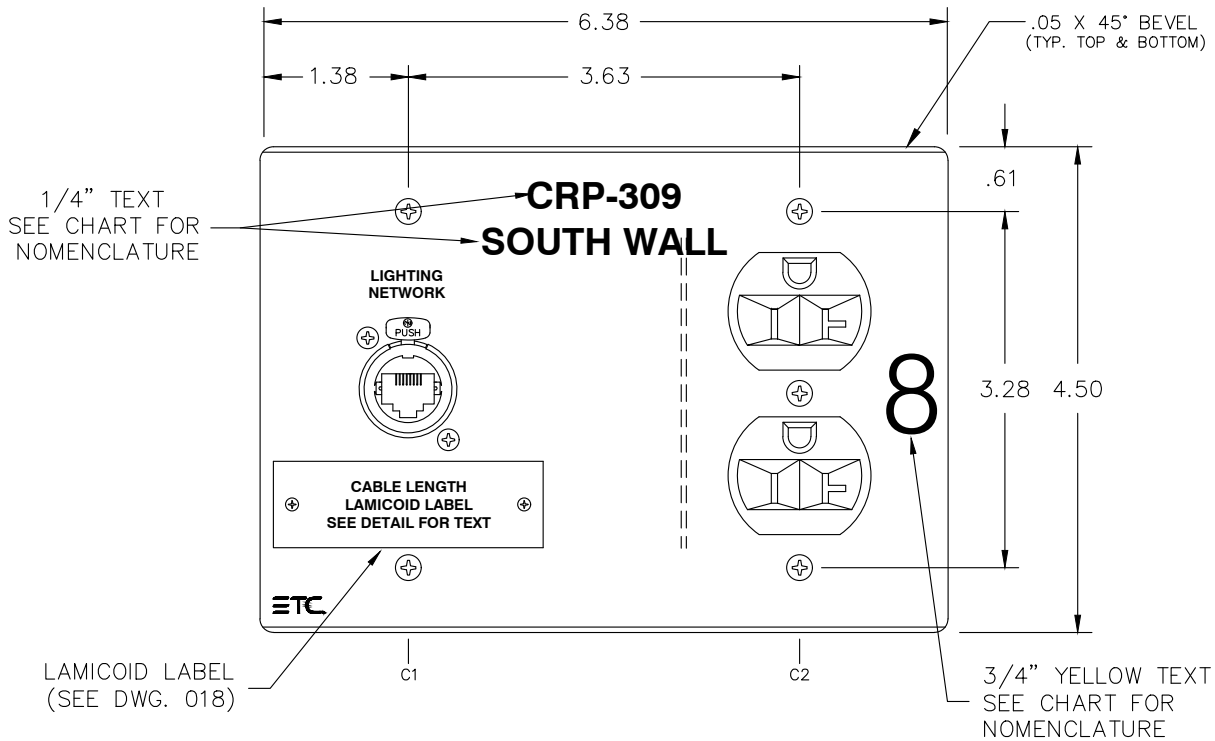
NOTES:

- FACE PANEL IS .08 ALUMINUM FINISHED IN A BLACK FINE-TEXTURED POWDER COAT.
- ALL NOMENCLATURE IS ENGRAVED IN WHITE.
- BACK BOX SHALL BE THREE GANG 3.50" DEEP RACO #697 (OR EQUIVALENT), AND IS SUPPLIED BY OTHERS. GANGABLE BACK BOX IS NOT ACCEPTABLE.
- ETCNet LAMICOID LABEL IS SHOWN FOR REFERENCE ONLY. LAMICOID LABEL DOES NOT SHIP ATTACHED TO PANEL.
- EDISON DUPLEX CIRCUITS ARE DESIGNATED WITH .75" YELLOW ENGRAVED TEXT.

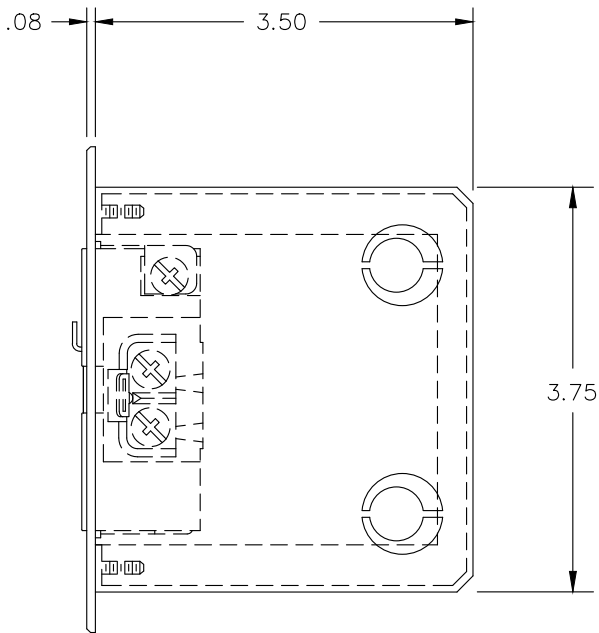
NOMENCLATURE CHART

DEVICE	LOCATION	(C2)
CRP-302	WEST WALL	10
CRP-304	NORTH WALL	12
CRP-306	NORTH WALL	14
CRP-309	SOUTH WALL	8

FRONT VIEW

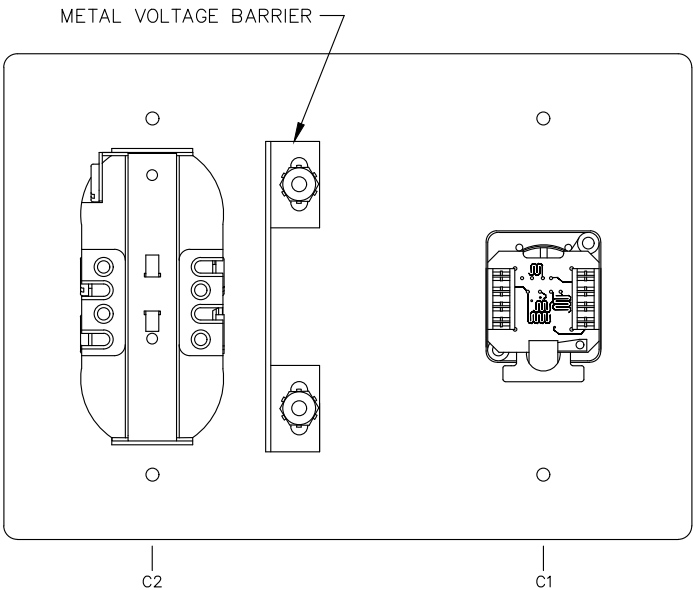


SIDE VIEW



REAR VIEW

(BACK BOX REMOVED)

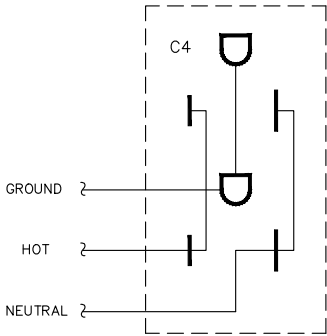
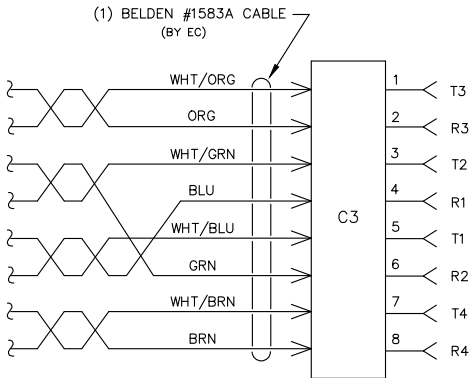
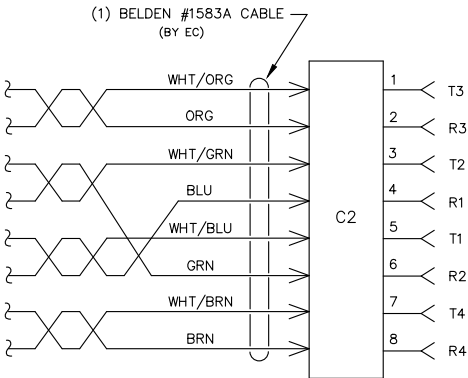


- NOTES:
- 1.) FACE PANEL IS .08 ALUMINUM FINISHED IN A BLACK FINE-TEXTURED POWDER COAT.
 - 2.) ALL NOMENCLATURE IS ENGRAVED IN WHITE.
 - 3.) BACK BOX SHALL BE FOUR-GANG 3.50" DEEP RACO #698 (OR EQUIVALENT), AND IS SUPPLIED BY OTHERS. GANGABLE BACK BOX IS NOT ACCEPTABLE.
 - 4.) ETCnet LAMICOID LABEL IS SHOWN FOR REFERENCE ONLY. LAMICOID LABEL DOES NOT SHIP ATTACHED TO PANEL.

ELECTRICAL DIAGRAM

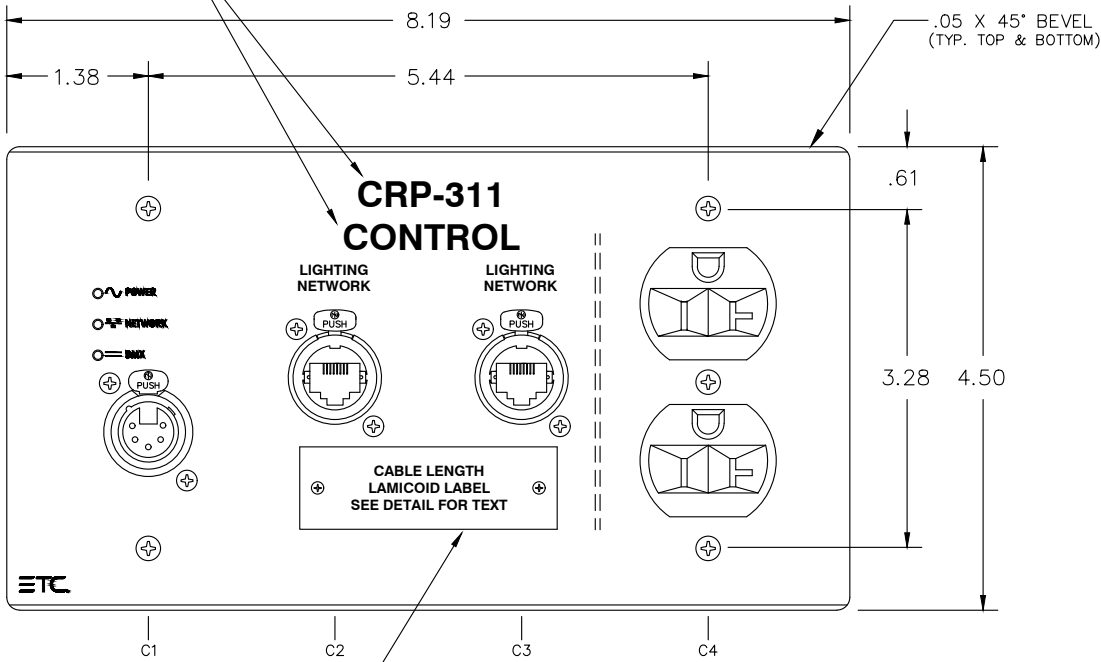
PARTS LIST		DESCRIPTION	DESIGNATION	PART NUMBER
ITEM	QTY.			
A	2	15047957-017-A CRP N31G/N/N/AC		TL47957-ARCH6

NOMENCLATURE CHART	
DEVICE	LOCATION
CRP-310	CONTROL
CRP-311	CONTROL



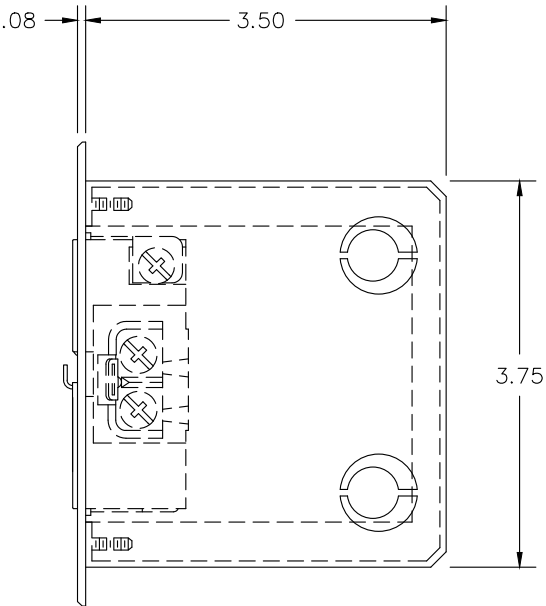
1/4" TEXT
SEE CHART FOR
NOMENCLATURE

FRONT VIEW



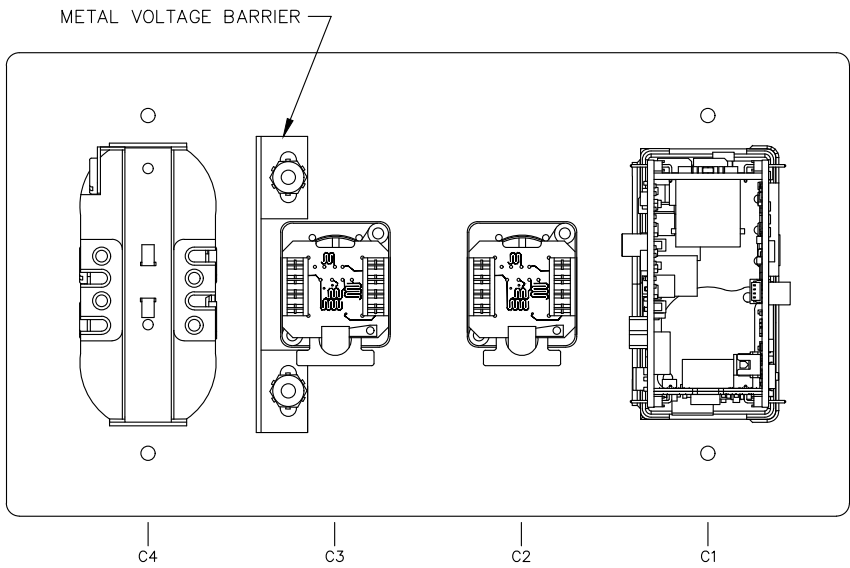
LAMICOID LABEL
(SEE DWG. 018)

SIDE VIEW



REAR VIEW

(BACK BOX AND WIRE CONNECTORS REMOVED)



ETC, Inc.

3031 Pleasant View Rd
PO Box 620979
Middleton WI 53562-0979
Tel +1 608 831 4116
Toll Free +1 800 688 4116
Fax +1 608 836 1736
etcconnect.com

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES.

ORIGINAL FILE:
ECPB-D-D-N-N.DWG

CONTRACT WITH:
TEXAS SCENIC

REPRESENTATIVE:
HORTON CONTROLS GROUP

PROJECT MANAGER:
SHAWN FERNANDEZ

APPLICATIONS ENGINEER:
DAN BORUD

DRAWING TITLE:
CRP-310/311
PLUG-IN STATION

PHYSICAL & ELECTRICAL

BL	01/03/18	SUBMITTAL
BY	DATE	REV.

JOB:
RICHARDSON HIGH SCHOOL
- RICHARDSON ISD

LOCATION:
RICHARDSON, TEXAS

JOB NUMBER:
15047957

DRAWING:
017

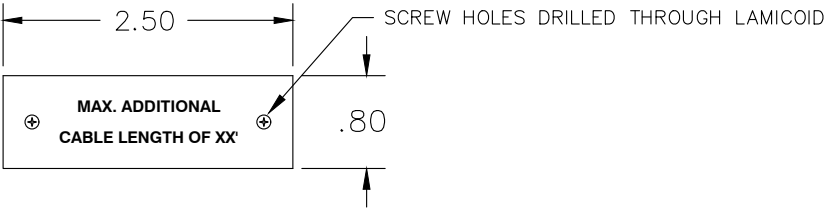
		PARTS LIST			
ITEM	QTY.	DESCRIPTION	DESIGNATION	PART NUMBER	
A	10	CUSTOM LAMICOID LABEL		1100A4008	
B	20	SCR #4x3/16 PhPHST TYPE B B0		HW1235	

NOTES:

- 1.) LABEL IS A BLACK LAMICOID WHICH SHALL BE LASER MARKED WITH .10 HIGH WHITE NOMENCLATURE PER CHART.
- 2.) XX' – MAXIMUM ADDITIONAL CABLE LENGTH TO BE DETERMINED PRIOR TO MANUFACTURING.

LAMICOID LABEL DETAIL

(DIMENSIONS TYPICAL FOR ALL)



LAMICOID LABEL DESIGNATION CHART				
DEVICE I.D. #	NET RUN I.D. #	CABLE LENGTH	MAX. ADDITIONAL CABLE LENGTH (XX')	REFERENCE DWG.#
CRP–201	N1			013
CRP–203	N3			013
CRP–205	N5			013
CRP–206	N6			013
CRP–302	N9			016
CRP–304	N11			016
CRP–306	N13			016
CRP–309	N15			016
CRP–310	N16–N18			017
CRP–311	N19–N21			017



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ORIGINAL FILE:
ETCNet LABEL.dwg

CONTRACT WITH:
TEXAS SCENIC

REPRESENTATIVE:
HORTON CONTROLS GROUP

PROJECT MANAGER:
SHAWN FERNANDEZ

APPLICATIONS ENGINEER:
DAN BORUD

DRAWING TITLE:
ETCNet
LAMICOID LABEL

PHYSICAL

BL	01/03/18	SUBMITTAL
BY	DATE	REV.

JOB:
RICHARDSON HIGH SCHOOL
– RICHARDSON ISD

LOCATION:
RICHARDSON, TEXAS

JOB NUMBER:
15047957

DRAWING:
018

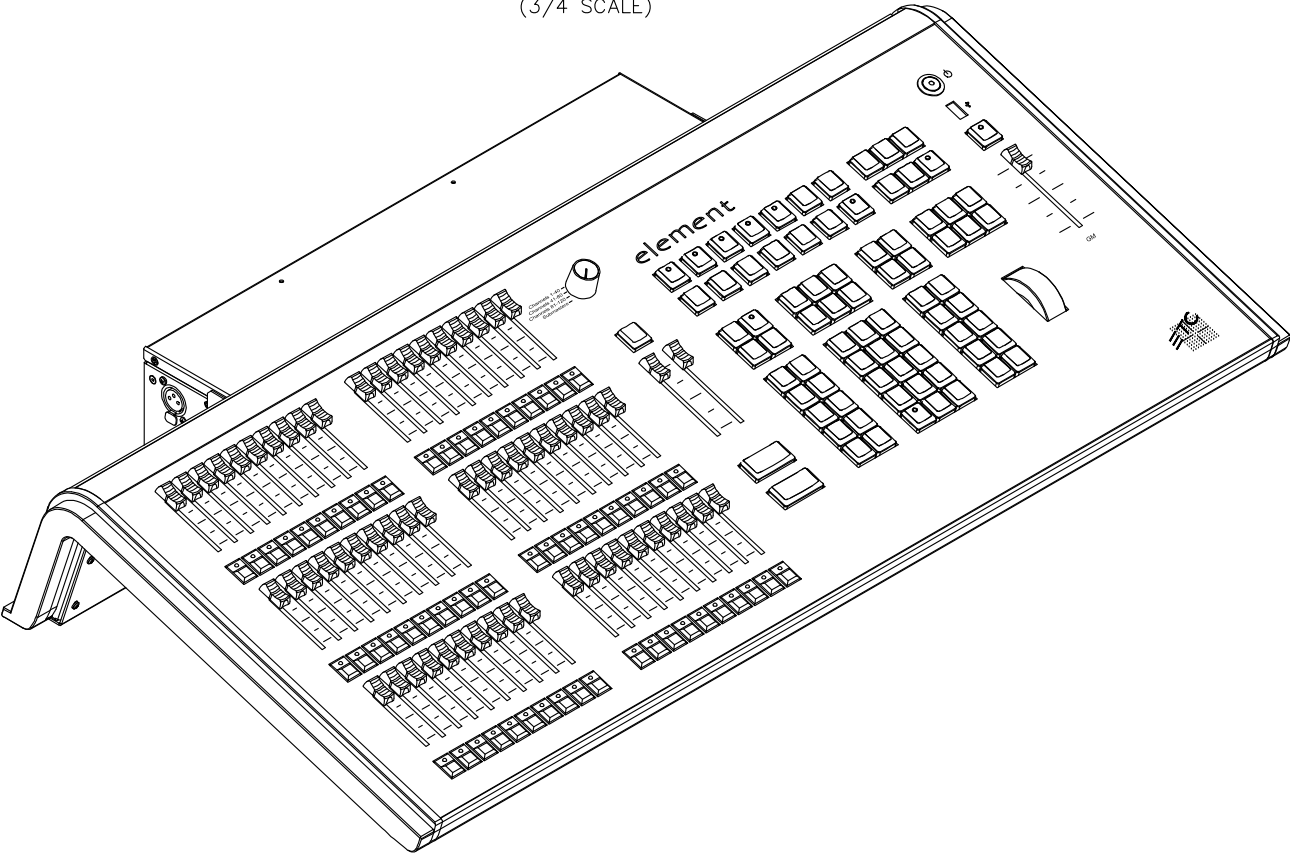
NOTES:

- 1.) CONTROL CONSOLE FACE PANEL IS .060 STEEL FINISHED IN AN ELECTROLESS NICKEL POWDER COAT. CHASSIS IS .062 ALUMINUM FINISHED IN A BLUE/BLACK POWDER COAT.
- 2.) FACE PANEL AND REAR PANEL NOMENCLATURE ARE REVERSE-SILKSCREENED ONTO ADHESIVE LEXAN LABELS.
- 3.) APPROXIMATE WEIGHT OF CONSOLE IS 27 lbs. (12.2 kg)
- 4.) CONTROL CONSOLE INCLUDES 6 FT. (1.8 METER) IEC POWER CABLE, 3-BUTTON/SCROLLER MOUSE AND DUST COVER. (NOT SHOWN FOR DRAWING CLARITY.)
- 5.) CONTROL CONSOLE MEETS OR EXCEEDS REQUIREMENTS FOR THE FOLLOWING MARKINGS:

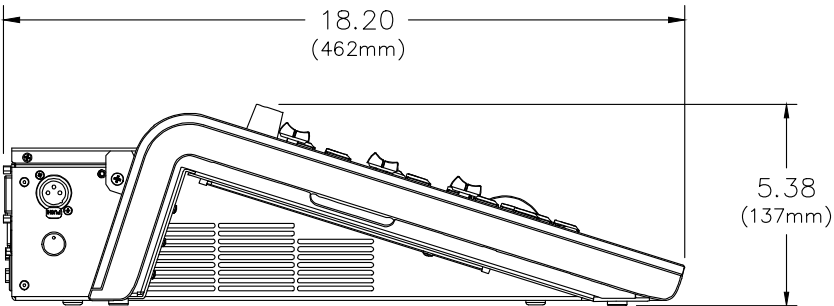


ISOMETRIC VIEW

(3/4 SCALE)

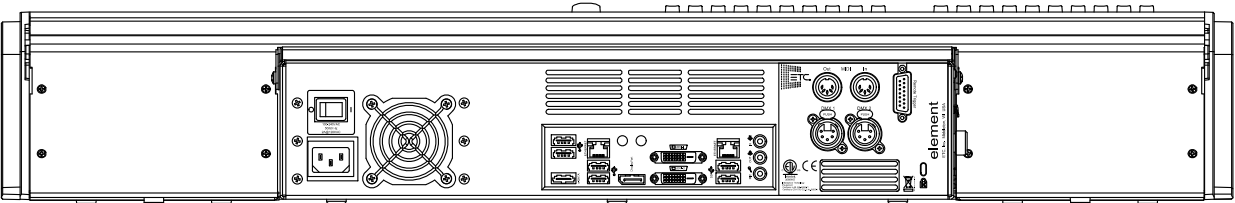


SIDE VIEW

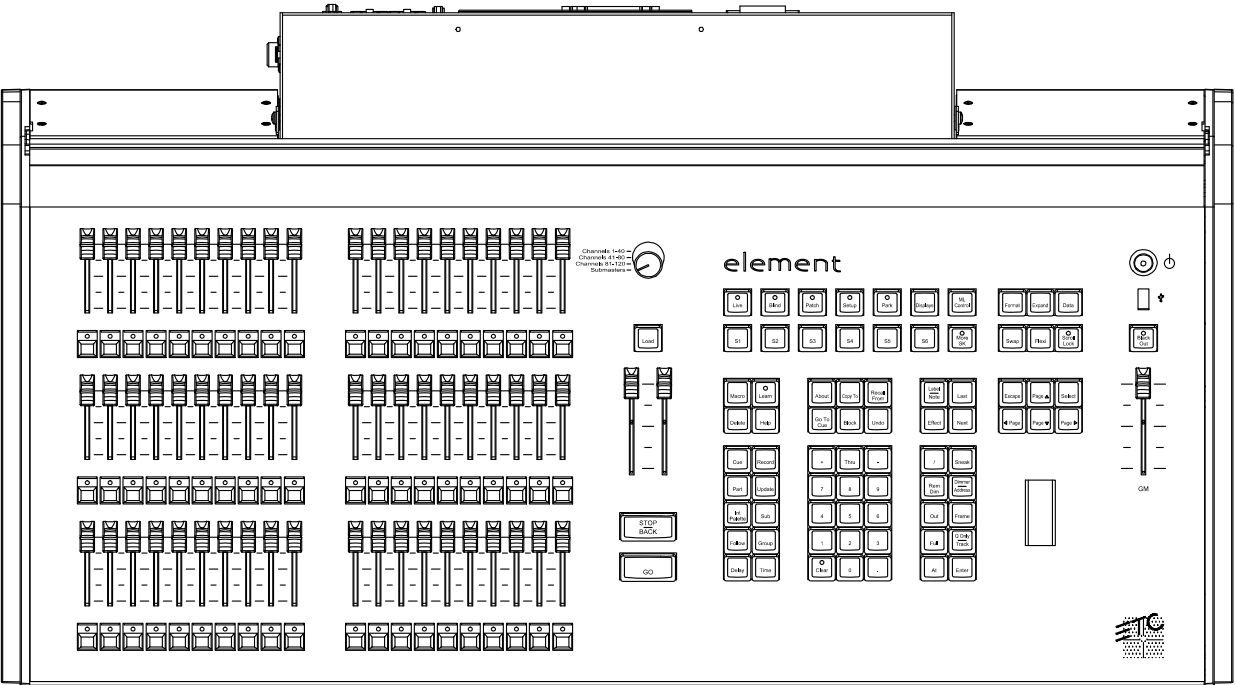


ITEM		QTY.	DESCRIPTION		PARTS LIST	DESIGNATION	PART NUMBER
A		1	ELEMENT 60 CONTROL CONSOLE			(500 CHANNEL)	4330A1132

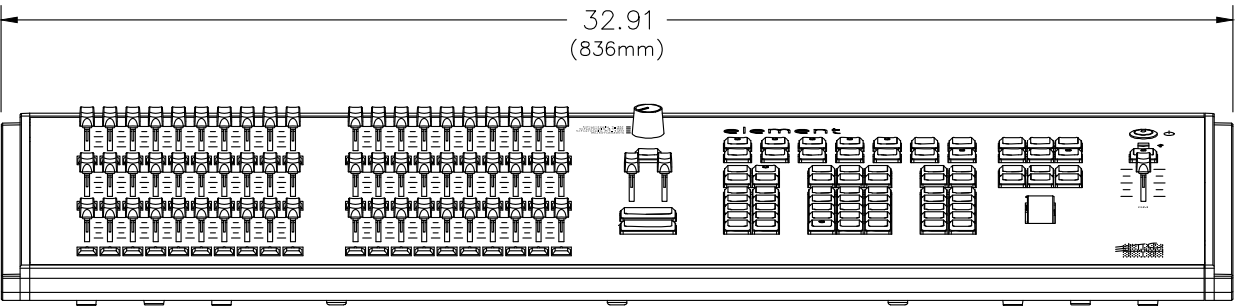
REAR VIEW



TOP VIEW



FRONT VIEW



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ORIGINAL FILE:
ELEMENT-60.DWG

CONTRACT WITH:
TEXAS SCENIC

REPRESENTATIVE:
HORTON CONTROLS GROUP

PROJECT MANAGER:
SHAWN FERNANDEZ

APPLICATIONS ENGINEER:
DAN BORUD

DRAWING TITLE:
ELEMENT 60
CONTROL CONSOLE

PHYSICAL

BL 01/03/18 SUBMITTAL

BY DATE REV.

JOB:
RICHARDSON HIGH SCHOOL
- RICHARDSON ISD

LOCATION:
RICHARDSON, TEXAS

JOB NUMBER:
15047957

DRAWING:
019