

Cemco Systems Inc **CSI**
 Generators Uninterruptible Power Systems Fire Protection Systems
 Design Installation Service

(704) 504-0294
 (800) 529-0395
 (704) 504-0821 Fax

10913 Office Park Drive
 Charlotte, NC 28273

FIRE PROTECTION SYSTEM INSPECTION REPORT

DATE OF INSPECTION **7/24/17**

SYSTEM TYPE
 SUPPRESSION SYSTEM
 FIRE ALARM

INSPECTED BY **E. Skunda**

CUSTOMER Orchard Park Elementary NOTIFIED:
 ADDRESS 474 Third Baxter Crossing FIRE DEPT.
 CITY & STATE Fort Mill, SC 29708 MANAGEMENT
 PROTECTED AREA School EMPLOYEES

CONTROL PANEL

MANUFACTURER	MODEL NO.	OPER. VOLTAGE	POWER FROM PANEL	QUARTERLY						REMARKS
				BATTERY TEST	LAMPS	SWITCHES	WIRING	INTER-LOCKS	ALARMS	
Simplex	4010	120vac	24vdc	OK	OK	OK	OK	OK	OK	
Simplex	4009 (4)	120vac	24vdc	OK	OK	OK	OK	OK	OK	Expander in Ele Rm at Cafe loading dock not silencing

AGENT STORAGE CONTAINERS

MANUFACTURER	SERIAL#	ZONE	QUARTERLY				SEMI-AN.	ANNUAL	REMARKS
			*VISUAL	MOUNTS	ADAPTORS	**PRESSURE				WEIGHT	WIRING	INITIATOR DATE
N/A									

INITIATING DEVICES

MANUFACTURER ROOM AND LOCATION	TYPE	MODEL NO.	ZONE	NO. DETECTORS IN ZONE	LAST DATE CLEANED	QTRLY		ANNUAL			REMARKS
						VISUAL	ALARM	SENS. SETTING OR TEMP. PAIRING	WIRING	CLEANING	
Simplex	PS	4098-SPS	All	33	n/a	OK	OK	n/a	<input checked="" type="checkbox"/>	n/a	
Simplex	HD	4098-9733	All	1	n/a	OK	OK	OK	<input checked="" type="checkbox"/>	n/a	
Simplex	SD	4098-9714	All	40	7/2016	OK	OK	OK	<input checked="" type="checkbox"/>	Yes	
Simplex	DD	4098-DD	All	8	7/2016	OK	OK	OK	<input checked="" type="checkbox"/>	Yes	
Simplex	A/V	Horn/Strobes	All	All	n/a	OK	OK	n/a	<input checked="" type="checkbox"/>	n/a	
Simplex	V/O	Strobes	All	All	n/a	OK	OK	n/a	<input checked="" type="checkbox"/>	n/a	

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FIRE PROTECTION SYSTEM INSPECTION REPORT

DATE OF INSPECTION **7/28/17**

SYSTEM TYPE
 SUPPRESSION SYSTEM FIRE ALARM

INSPECTED BY **E. Skunda**

CUSTOMER **Nation Ford H.S.**

ADDRESS **1400 A.O. Jones Blvd.**

CITY & STATE **Fort Mill, SC 29715**

PROTECTED AREA **Auto Tech**

- NOTIFIED:**
- FIRE DEPT.
 - MANAGEMENT
 - EMPLOYEES

CONTROL PANEL

MANUFACTURER	MODEL NO.	OPER. VOLTAGE	POWER FROM PANEL	QUARTERLY						REMARKS
				BATTERY TEST	LAMPS	SWITCHES	WIRING	INTER-LOCKS	ALARMS	
EST	VS1	120VAC	24VDC	Fail	OK	OK	OK	OK	OK	Replaced batteries
Edwards	RNF44	120VAC	24VDC	Fail	OK	OK	OK	OK	OK	Replaced batteries

AGENT STORAGE CONTAINERS

MANUFACTURER	SERIAL#	ZONE	QUARTERLY				SEMI-AN.	ANNUAL	REMARKS
			VISUAL	MOUNTS	ADAPTORS	**PRESSURE	WEIGHT	WIRING		INITIATOR DATE

INITIATING DEVICES

MANUFACTURER ROOM AND LOCATION	TYPE	MODEL NO.	ZONE	NO. DETECTORS IN ZONE	LAST DATE CLEANED	QTRLY		ANNUAL			REMARKS
						VISUAL	ALARM	SENS. SETTING OR TEMP. RATING	WIRING	CLEANING	
Edwards	SD	SIGA-PS	All	6	7/2016	OK	OK	OK	✓	Yes	
Edwards	PS	SIGA-MS	All	9	N/A	OK	OK	N/A	✓	Yes	
Edwards	DD	SIGA-SD	All	4	7/2016	OK	OK	OK	✓	Yes	
Edwards	HD	SIGA-HD	All	1	N/A	OK	OK	135	✓	N/A	

FIRE PROTECTION SYSTEM INSPECTION REPORT

DATE OF INSPECTION **7/12/17**

SYSTEM TYPE
 SUPPRESSION SYSTEM FIRE ALARM

INSPECTED BY **E. Skunda**

CUSTOMER Springfield Elementary NOTIFIED:
 ADDRESS 1691 Springfield Pkwy. FIRE DEPT.
 CITY & STATE Fort Mill, SC 29715 MANAGEMENT
 PROTECTED AREA School EMPLOYEES

CONTROL PANEL

MANUFACTURER	MODEL NO.	OPER. VOLTAGE	POWER FROM PANEL	QUARTERLY						REMARKS
				BATTERY TEST	LAMPS	SWITCHES	WIRING	INTER-LOCKS	ALARMS	
Simplex	4010	120vac	24vdc	OK	OK	OK	OK	OK	OK	
Simplex	4009 (4)	120vac	24vdc	OK	OK	OK	OK	OK	OK	

AGENT STORAGE CONTAINERS

MANUFACTURER	SERIAL#	ZONE	QUARTERLY				SEMI-AN.	ANNUAL	REMARKS
			*VISUAL	MOUNTS	ADAPTORS	**PRESSURE				WEIGHT	WIRING	INITIATOR DATE

INITIATING DEVICES

MANUFACTURER ROOM AND LOCATION	TYPE	MODEL NO.	ZONE	NO. DETECTORS IN ZONE	LAST DATE CLEANED	QTRLY		ANNUAL			REMARKS
						VISUAL	ALARM	SENS. SETTING OR TEMP. RATING	WIRING	CLEANING	
Simplex	PS	4098-SPS	All	32	n/a	OK	OK	n/a	✓	n/a	
Simplex	SD	4098-9714	All	44	7/2016	OK	OK	OK	✓	Yes	*SD in mobile classrooms are not tied into fire alarm
Simplex	HD	4098-9733	All	1	n/a	OK	OK	OK	✓	n/a	
Simplex	DD	4098-DD	All	9	7/2016	OK	OK	OK	✓	Yes	
Simplex	A/V	Horn/Strobes	All	All	n/a	OK	OK	n/a	✓	n/a	*Audio Visuals in mobile classrooms inoperable
Simplex	V/O	Strobes	All	All	n/a	OK	OK	n/a	✓	n/a	

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FIRE PROTECTION SYSTEM INSPECTION REPORT

DATE OF INSPECTION **8/2/17**

SYSTEM TYPE
 SUPPRESSION SYSTEM
 FIRE ALARM

INSPECTED BY **E. Skunda**

CUSTOMER **Nation Ford H.S.**
 ADDRESS **1400 A.O. Jones Blvd.**
 CITY & STATE **Fort Mill, SC 29715**
 PROTECTED AREA **Stadium**

- NOTIFIED:
- FIRE DEPT.
 - MANAGEMENT
 - EMPLOYEES

CONTROL PANEL

MANUFACTURER	MODEL NO.	OPER. VOLTAGE	POWER FROM PANEL	QUARTERLY						REMARKS
				BATTERY TEST	LAMPS	SWITCHES	WIRING	INTER-LOCKS	ALARMS	
Gamewell	S3	120vac	24vdc	OK	OK	OK	OK	OK	OK	
GE	BPS	120vac	24vdc	OK	OK	OK	OK	OK	OK	
Silent Knight	SK 5499	120VAC	24VDC	OK	OK	OK	OK	OK	OK	

AGENT STORAGE CONTAINERS

MANUFACTURER	SERIAL#	ZONE	QUARTERLY				SEMI-AN.	ANNUAL	REMARKS
			VISUAL	MOUNTS	ADAPTORS	**PRESSURE				WEIGHT	WIRING	INITIATOR DATE

INITIATING DEVICES

MANUFACTURER ROOM AND LOCATION	TYPE	MODEL NO.	ZONE	NO. DETECTORS IN ZONE	LAST DATE CLEANED	QTRLY		ANNUAL			REMARKS
						VISUAL	ALARM	SENS. SETTING OR TEMP. RATING	WIRING	CLEANING	
Gamewell	SD	XP-95A	All	11	7/2016	OK	OK	OK	<input checked="" type="checkbox"/>	Yes	
Gamewell	PS	MS-95	All	12	N/A	OK	OK	N/A	<input checked="" type="checkbox"/>	N/A	
Gamewell	DD	XP-95DD	All	2	7/2016	OK	OK	OK	<input checked="" type="checkbox"/>	Yes	
Chemtronics	HD	601	All	4	N/A	OK	OK	135F	<input checked="" type="checkbox"/>	N/A	
Gamewell	SCE	SCE-95	All	1	N/A	OK	OK	N/A	<input checked="" type="checkbox"/>	N/A	
Edwards	V/O	Strobes	All	All	N/A	OK	OK	N/A	<input checked="" type="checkbox"/>	N/A	
Edwards	A/V	Horn/Strobes	All	All	N/A	OK	OK	N/A	<input checked="" type="checkbox"/>	N/A	

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 Charlotte, NC 28273

FIRE PROTECTION SYSTEM INSPECTION REPORT

DATE OF INSPECTION **8/1/17**

SYSTEM TYPE
 SUPPRESSION SYSTEM FIRE ALARM

INSPECTED BY **E. Skunda**

CUSTOMER Gold Hill Middle NOTIFIED:
 ADDRESS 1025 Dave Gibson Blvd. FIRE DEPT.
 CITY & STATE Fort Mill, SC 29708 MANAGEMENT
 PROTECTED AREA School EMPLOYEES

CONTROL PANEL

MANUFACTURER	MODEL NO.	OPER. VOLTAGE	POWER FROM PANEL	QUARTERLY						REMARKS
				BATTERY TEST	LAMPS	SWITCHES	WIRING	INTER-LOCKS	ALARMS	
Simplex	4020	120vac	24vdc	OK	OK	OK	OK	OK	OK	
Simplex	4009 (4)	120vac	24vdc	OK	OK	OK	OK	OK	OK	

AGENT STORAGE CONTAINERS

MANUFACTURER	SERIAL#	ZONE	QUARTERLY				WEIGHT	WIRING	INITIATOR DATE	REMARKS
			*VISUAL	MOUNTS	ADAPTORS	*PRESSURE				

INITIATING DEVICES

MANUFACTURER ROOM AND LOCATION	TYPE	MODEL NO.	ZONE	NO. DETECTORS IN ZONE	LAST DATE CLEANED	QTRLY		ANNUAL			REMARKS
						VISUAL	ALARM	SENS. SETTING OR TEMP. RATING	WIRING	CLEANING	
Simplex	SD	4098-9714	All	83	7/2016	OK	OK	OK	✓	Yes	
Simplex	PS	4098-SPS	All	21	N/A	OK	OK	N/A	✓	N/A	
Simplex	DD	4098-DD	All	2	7/2016	OK	OK	OK	✓	Yes	
Innovair	DD	Duct Det.	All	3	7/2016	OK	RW*	OK	✓	Yes	*Not tied into building fire alarm as required.
Simplex	A/V	Horn/Strobe	All	All	N/A	OK	OK	N/A	✓	N/A	
Simplex	V/O	Strobe	All	All	N/A	OK	OK	N/A	✓	N/A	*Notification devices are not synchronized.
Wheelock	A/V	Horn/Strobe	All	All	N/A	OK	OK	N/A	✓	N/A	*Notification devices are not synchronized.
Wheelock	V/O	Strobe	All	All	N/A	RW	RR*	N/A	✓	N/A	
											*Notification devices are not synchronized.

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FIRE PROTECTION SYSTEM INSPECTION REPORT

DATE OF INSPECTION **7/31/17**

SYSTEM TYPE
 SUPPRESSION SYSTEM
 FIRE ALARM

INSPECTED BY **E. Skunda**

CUSTOMER **Fort Mill Middle** NOTIFIED:
 ADDRESS **200 Springfield Pkwy.** FIRE DEPT.
 CITY & STATE **Fort Mill, SC 29715** MANAGEMENT
 PROTECTED AREA **School** EMPLOYEES

CONTROL PANEL

MANUFACTURER	MODEL NO.	OPER. VOLTAGE	POWER FROM PANEL	QUARTERLY						REMARKS
				BATTERY TEST	LAMPS	SWITCHES	WIRING	INTER-LOCKS	ALARMS	
Notifier	NFS2-640	120vac	24vdc	OK	OK	OK	OK	OK	OK	
Notifier (5)	FCPS24	120vac	24vdc	OK	OK	OK	OK	OK	OK	

AGENT STORAGE CONTAINERS

MANUFACTURER	SERIAL#	ZONE	QUARTERLY				SEMI-AN.	ANNUAL	REMARKS
			*VISUAL	MOUNTS	ADAPTORS	*PRESSURE				WEIGHT	WIRING	INITIATOR DATE

INITIATING DEVICES

MANUFACTURER ROOM AND LOCATION	TYPE	MODEL NO.	ZONE	NO. DETECTORS IN ZONE	LAST DATE CLEANED	QTRLY		ANNUAL			REMARKS
						VISUAL	ALARM	SENS. SETTING OR TEMP. RATING	WIRING	CLEANING	
Notifier	PS	NBG-12LX	All	24	N/A	OK	OK	n/a	<input checked="" type="checkbox"/>	N/A	
Notifier	SD	FSP-851	All	123	7/2016	OK	OK	OK	<input checked="" type="checkbox"/>	Yes	
Notifier	HD	FST-851	All	4	N/A	OK	OK	OK	<input checked="" type="checkbox"/>	N/A	
Notifier	DD	FSD-751PL	All	14	7/2016	OK	OK	OK	<input checked="" type="checkbox"/>	Yes	
System Sensor	A/V	Horn/Strobes	All	All	N/A	OK	OK	n/a	<input checked="" type="checkbox"/>	N/A	
System Sensor	V/O	Strobes	All	All	N/A	OK	OK	n/a	<input checked="" type="checkbox"/>	N/A	



FIRE SERVICES

PRODUCT TRAINING FOR Q5 FIRE ALARM

NAME OF SITE NATIONS FORD STADIUM

The following personnel were present for training:

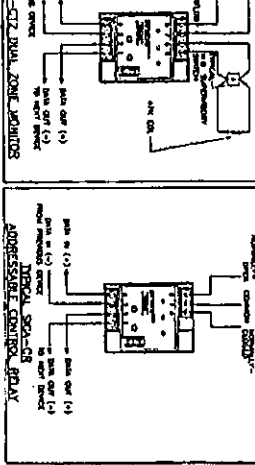
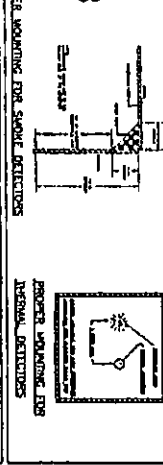
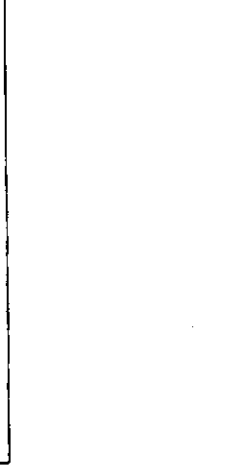
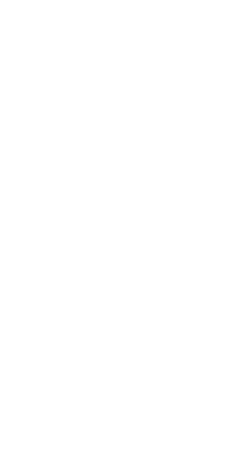
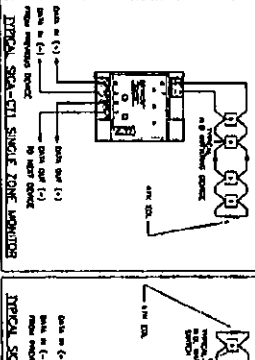
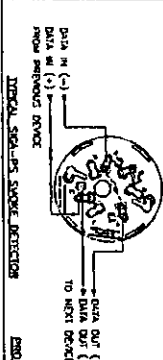
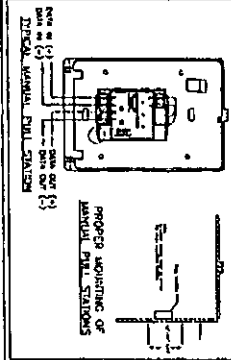
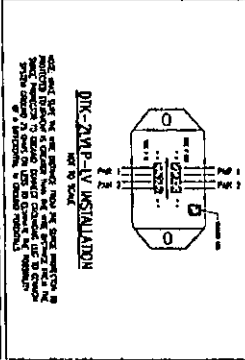
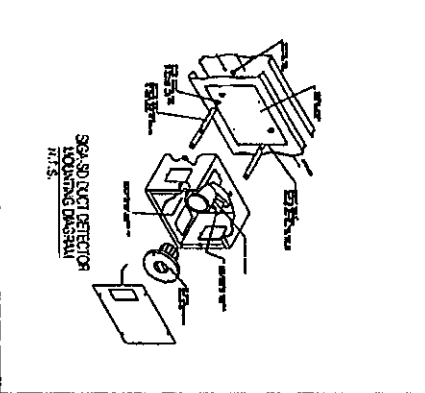
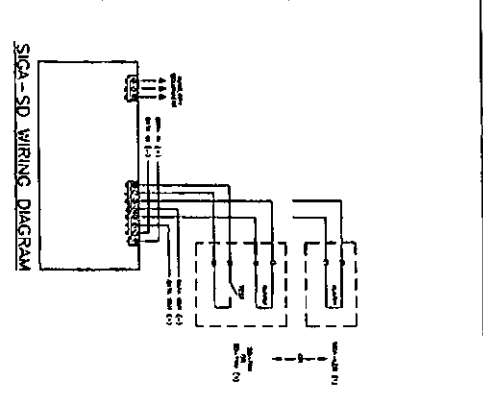
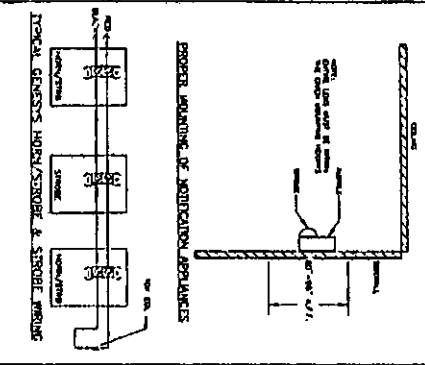
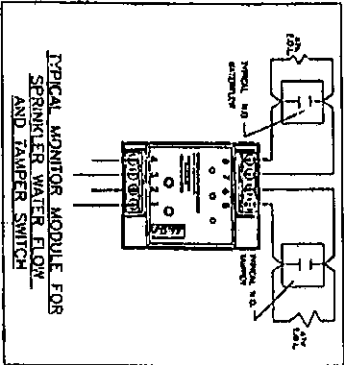
Leo Pittman _____

Beverly Brown _____

RON FREEMAN 8/7/09
Instructor Date

Diebold Enterprise Security and Fire Services
5900 Northwoods Parkway
Charlotte, North Carolina

1-800-666-3473



Nation Ford High School Stadium
1400 A. O. Jones Blvd.
Fort Mill, SC 29715


THE ALARM BROADCASTING DETAILS

SHEET: 1 of 3 DATE: 06/11/08
FILE: 0802.P1.dwg DSW: jba
JOB No: 080275 SCALE: AS SHOWN

DIEBOLD FIRE SERVICES

<p>ROSELLE 1800 W. Highway 101 Roseland, VA 22137 P: 703-596-2510 F: 703-596-2511</p> <p>DELRITA 1800 W. Highway 101 Roseland, VA 22137 P: 703-596-2510 F: 703-596-2511</p>	<p>CHESAPEAKE 1800 W. Highway 101 Roseland, VA 22137 P: 703-596-2510 F: 703-596-2511</p> <p>DELRITA 1800 W. Highway 101 Roseland, VA 22137 P: 703-596-2510 F: 703-596-2511</p>	<p>ATLANTA 1800 W. Highway 101 Roseland, VA 22137 P: 703-596-2510 F: 703-596-2511</p> <p>ATLANTA 1800 W. Highway 101 Roseland, VA 22137 P: 703-596-2510 F: 703-596-2511</p>	<p>ATLANTA 1800 W. Highway 101 Roseland, VA 22137 P: 703-596-2510 F: 703-596-2511</p> <p>ATLANTA 1800 W. Highway 101 Roseland, VA 22137 P: 703-596-2510 F: 703-596-2511</p>
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DATE	REVISIONS	DRN
05/12/08	INITIAL DESIGN	



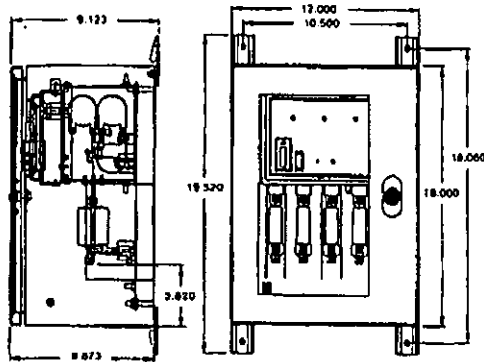
SPENCE ENGINEERING
14325 Cove Ridge Place
Midlothian, VA 23112
Phone: 801-244-8688

Technical Specifications

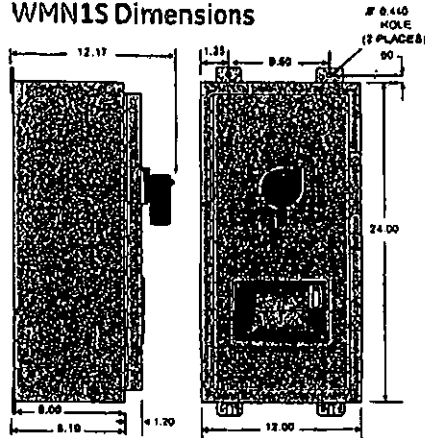
Operating Frequency 50/60 Hz
 Connection 6 to 2/0 Conductors, Parallel Connected

Operating Temperature -40° F to 140° F / -40° C to +65° C
 Operating Humidity 0% to 95% Non-Condensing
 Weight 50 lbs. (THE), 32 lbs. (TME)

WMN4S Dimensions



WMN1S Dimensions



Catalog # THE 277Y 150 WMN 12 F

	Nominal Voltage (Volts RMS)	System Voltage Configuration	Suppressed Voltage Rating (SVR) UL 1449, 2 nd Edition February 2007 Revision					MCOV% Max. Continuous Operating Voltage	Maximum Surge Current Capacity			
			L-N	HL-N	L-G	HL-G	N-G		Exposure Level	Per Mode	Per Phase	
THE	120S	1 Ph, 3 W + G	400	--	400	--	400	125%				
TME	120Y	120Y/208	3 Ph, 4 W + G	400	--	400	--	400	125%	065	ME	65kA 130kA
	220Y	220Y/380	3 Ph, 4 W + G	800	--	800	--	800	145%	080	ME	80kA 160kA
	240D	240 Delta	3 Ph, 3 W + G	--	--	800	--	--	196%	100	ME & HE	100kA 200kA
	240H	120/240 Delta HL	3 Ph, 4 W + G	400	700	400	700	400	115%	150	HE	150kA 300kA
	240Y	240Y/415	3 Ph, 4 W + G	800	--	800	--	800	130%	200	HE	200kA 400kA
	277Y	277Y/480	3 Ph, 4 W + G	800	--	800	--	800	115%	300	HE	300kA 600kA
	347Y	347Y/600	3 Ph, 4 W + G	1000	--	1000	--	900	115%			
	480D	480 Delta	3 Ph, 3 W + G	--	--	1500	--	--	198%			
	600D	600 Delta	3 Ph, 3 W + G	--	--	1500	--	--	170%			

Catalog # example: THE277Y150WMN12S

Suffix	Description	NEMA Enclosure	Mounting	Disconnect
1	Painted Steel	1	Surface	Yes
12S	Painted Steel	12	Surface	No
12F	Painted Steel	12	Flush	No
4	Fiberglass	4X	Surface	Yes
4S	Painted Steel	4	Surface	No
4X	Stainless Steel	4X	Surface	No



imagination at work

GE Consumer & Industrial - Power Quality
 701 E 22nd Street, Lombard, IL 60148 USA
 800 637 1738 www.geindustrial.com/tvss

Information subject to change without notice. Please verify all details with GE.
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Power Quality

Introduction

Transient voltage surge suppressors (TVSS) are engineered for reliability, flexibility and long life in the most extreme surge environment. The true maximum surge current rating, unlimited by fusing, has been proven successful in third-party tests.

These TVSS models are available in a standard NEMA 12 enclosure. Optional enclosure types include NEMA 12 and 4X, flushmount, surface mount and stainless steel. These units have been tested to surge current ratings per NEMA LS-1, up to 200kA per mode, with the fuses included in the surge path. Standard features include a surge counter, audible alarm, indicating lights, dry contacts and an integral surge rated disconnect**. Rating options range from 65kA per mode to 300kA per mode.

All mode protection is provided with surge components (MOVs) connected on the phase to neutral, phase to ground, and neutral to ground paths as appropriate for the voltage configuration.

GE engineers design and build transient voltage surge suppressors in our state-of-the-art lab and production facilities. Extensive testing is performed at GE and third-party test labs across North America. Production is carried out at our factory in Bonham, Texas utilizing Six Sigma, ISO 9001 methodologies and lean manufacturing processes.

Features and Benefits

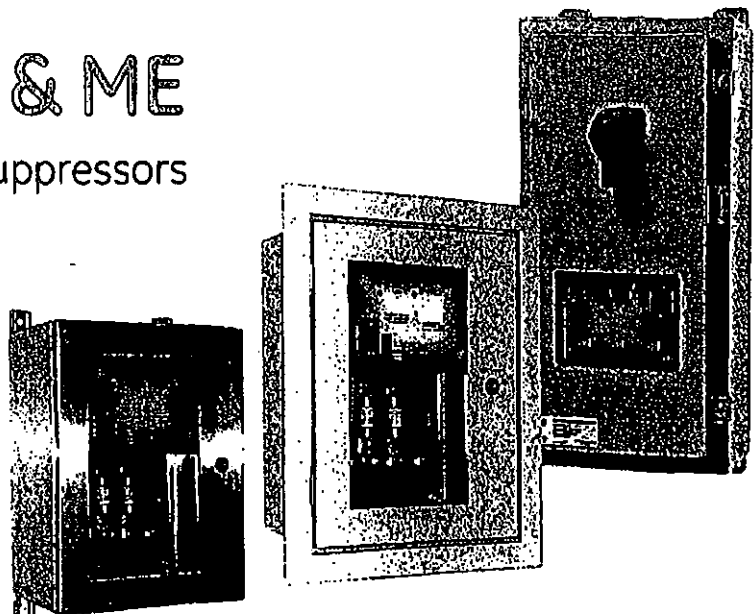
- > UL 1449 2nd Edition; Feb. 2007 Revision, cUL (Must be installed downstream from a circuit breaker rated 60 amps or less)
- > UL 1283 noise filters standard
- > UL tested to 200,000 amperes symmetrical withstand
- > Integral surge rated disconnect
- > Tranquell™ ME device is capable of surviving a minimum of 5,000 category C3 impulses (10kA, 20kV) per mode
- > Tranquell™ HE device is capable of surviving a minimum of 20,000 category C3 impulses (10kA, 20kV) per mode
- > Device capable of surviving a minimum of 5,000 longwave (10x1000µs) impulses per mode
- > Thermal fuse technology in combination with surge rated fuses
- > Form C dry contacts for remote monitoring
- > Green status indicating lights, red service light
- > Audible alarm with test/disable feature
- > Surge counter
- > 5 year limited warranty (standard), 10 year limited warranty (optional)

** Integral surge rated disconnect is only available for WMN1 and WMN4

Wallmount

Tranquell™ HE & ME

Transient Voltage Surge Suppressors



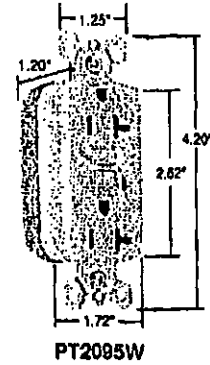
GFCIs PlugTail™ Specification Grade GFCI Receptacles

2 Pole, 3 Wire Grounding 15 & 20A, 125VAC

Pass & Seymour

legrand

Features	
<ul style="list-style-type: none"> ■ Faster, more reliable installation. ■ No exposed terminals create a finger safe application before, during, and after installation. ■ Built-in connector features large brass terminal blades to ensure consistent, reliable electrical connections to PlugTail Connector. ■ GFCI works with the existing 3 wire PlugTail Connectors creating a non-feed-thru application for facility owners. At rough-in just install the same right angle connector for GFCI and receptacle openings. ■ SafeLock™ Protection: If critical components are damaged and ground fault protection is lost, power to receptacle is disconnected. ■ FSUL Listed (Federal Specification WGS98). 	<ul style="list-style-type: none"> ■ Exceeds UL943 voltage surge requirements, survives 100x the required UL 3kA/6kV voltage surge test cycles. ■ Trip indicator light (red LED). ■ Mounting screws are shipped captive in the device and wall plate for easier installation. ■ High-impact-resistant thermoplastic construction. ■ Zinc-plated steel mounting strap. ■ Button colors match the device face. ■ Dual-direction test and reset buttons. ■ Class A rated GFCI. ■ Supplied with matching TP28 nylon wall plate. ■ Tri-drive screws.
Specifications	
<ul style="list-style-type: none"> ■ Supply Voltage: 125VAC, 60 Hz ■ Supply Voltage Range: 102-132 VAC ■ Trip Threshold: 5±1mA 	<ul style="list-style-type: none"> ■ Trip Time: 0.025 sec., nominal per UL Standard ■ 20-Amp feed-thru capacity

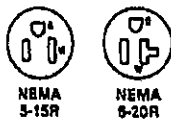


Catalog Number	Rating A. VAC	Color	NEMA Config. No.	3rd Party Compliance		
				UL943 C22.2 No. 144	UL498 C22.2 No. 42	FSUL WGS98
NEW Specification Grade 15 Amp Duplex GFCI						
PT1595I	15 125	Ivory	5-15R	.	.	.
PT1595W	15 125	White	5-15R	.	.	.
PT1595	15 125	Brown	5-15R	.	.	.
PT1595GRY	15 125	Gray	5-15R	.	.	.
PT1595BK	15 125	Black	5-15R	.	.	.
PT1595RED	15 125	Red	5-15R	.	.	.
PT1595LA	15 125	Light Almond	5-15R	.	.	.
NEW Specification Grade 20 Amp Duplex GFCI						
PT2095I	20 125	Ivory	5-20R	.	.	.
PT2095W	20 125	White	5-20R	.	.	.
PT2095	20 125	Brown	5-20R	.	.	.
PT2095GRY	20 125	Gray	5-20R	.	.	.
PT2095BK	20 125	Black	5-20R	.	.	.
PT2095RED	20 125	Red	5-20R	.	.	.
PT2095LA	20 125	Light Almond	5-20R	.	.	.

Catalog Number	Wire Type	Wire Length
PlugTail Connectors - Right Angle		
PTRA6STR	Stranded	6"
PTRA6SOL	Solid	6"

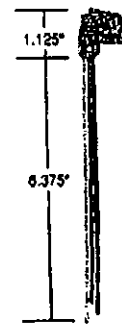
For additional PlugTail Connectors, see Page B-3.

All PlugTail Connectors are available in any wire length up to 25 inches, use Configurable Solutions to order.



Configurable Solutions and Metal Box Kits for PlugTail Receptacles and Connectors, see Pages U-1 - U-3.

All devices listed on this page conform to NEMA WD-1 and WD-6.

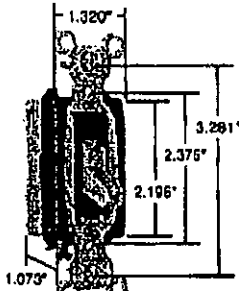


GFCIs

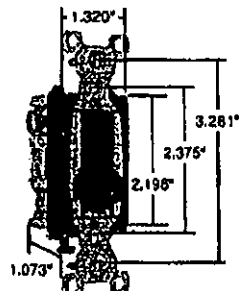
PlugTail™ Spec Grade GFCIs

Pass & Seymour

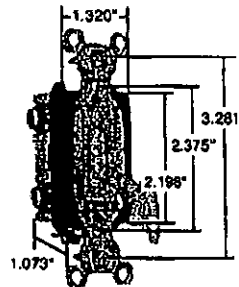
legrand



15 & 20 Amp*



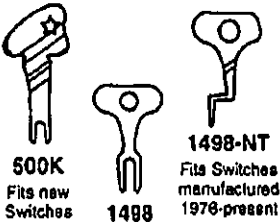
15 & 20 Amp Lighted & Pilot Lighted*



Locking*

*30AC series is 1.437" wide

Lock Switch Replacement Keys
(One key furnished with each switch)



500K
Fits new Switches

1498

Fits Switches manufactured before 1976

1498-NT
Fits Switches manufactured 1976-present

All devices listed on this page conform to NEMA WD-1 and WD-8.

Switches

Industrial Extra Heavy-Duty Specification Grade Switches

15, 20 & 30A, 120, 277 & 120/277VAC

Features

- External screw-pressure-plate back and side-wired. Accepts #14 - #10 AWG copper or copper-clad conductors.
- Heavy-gauge one-piece copper alloy contact arm virtually eliminates contact bounce.
- Cam controls fast "make" and positive "break" to minimize arcing.
- Heavy-duty bumper pads for quiet operation.
- High strength thermoplastic polycarbonate toggle.
- Back body made of glass-reinforced nylon.
- Locking support provides resistance to face and back body separation.
- Oversized silver alloy contacts for long life and better heat dissipation.
- Grounding terminal is standard.
- Shallow design for ease of installation.
- Strap nickel-plated steel with integral ground.
- Auto-ground clip assures positive ground.

Catalog Number				Rating A. VAC	Color	3rd Party Compliance	
Single Pole	Double Pole	Three-Way	Four-Way			UL20	W8296 C22.2 111
Toggle Switches Back & Side Wire							
PS15AC1I PS15AC1W PS15AC1 PS15AC1GRY PS15AC1LA	PS15AC2I PS15AC2W PS15AC2 PS15AC2GRY PS15AC2LA	PS15AC3I PS15AC3W PS15AC3 PS15AC3GRY PS15AC3LA	PS15AC4I PS15AC4W PS15AC4 PS15AC4GRY PS15AC4LA	15 120/277 15 120/277 15 120/277 15 120/277 15 120/277	Ivory White Brown Gray Light Almond	.....	.....
PS20AC1I PS20AC1W PS20AC1 PS20AC1GRY PS20AC1BK 	PS20AC2I PS20AC2W PS20AC2 PS20AC2GRY PS20AC2BK PS20AC2RED PS20AC2LA	PS20AC3I PS20AC3W PS20AC3 PS20AC3GRY PS20AC3BK PS20AC3RED PS20AC3LA	PS20AC4I PS20AC4W PS20AC4 PS20AC4GRY PS20AC4BK PS20AC4RED PS20AC4LA	20 120/277 20 120/277 20 120/277 20 120/277 20 120/277 20 120/277 20 120/277	Ivory White Brown Gray Black Red Light Almond
PS30AC1I PS30AC1W PS30AC1	PS30AC2I PS30AC2W PS30AC2	PS30AC3I PS30AC3		30 120/277 30 120/277 30 120/277	Ivory White Brown	...	...
Lighted Toggle Switches (Lighted when OFF) Back & Side Wire							
PS15AC1CSL PS15AC1ISL PS15AC1WSL		PS15AC3CSL PS15AC3ISL PS15AC3WSL		15 120/277 15 120/277 15 120/277	Clear Ivory White	...	...
PS20AC1CSL PS20AC1ISL PS20AC1WSL PS20AC1LASL		PS20AC3CSL PS20AC3ISL PS20AC3WSL PS20AC3LASL		20 120/277 20 120/277 20 120/277 20 120/277	Clear Ivory White Light Almond	....	....
Pilot Lighted Switches (Lighted when ON) Back & Side Wire							
PS15AC1CPL PS15AC1RPL		PS15AC3CPL PS15AC3RPL		15 120 15 120	Clear Red	....	....
PS20AC1CPL PS20AC1CPL7 PS20AC1RPL PS20AC1RPL7		PS20AC3CPL PS20AC3RPL PS20AC3RPL7		20 120 20 277 20 120 20 277	Clear Clear Red Red	....	....
	PS20AC2CPL PS20AC2RPL			20 120/277 20 120/277	Clear Red	....	....
PS30AC1RPL	PS30AC2RPL	PS30AC3RPL		30 120 30 120/277	Red Red	....	....
Lock Switches (Key can be removed in both positions) Back & Side Wire							
PS15AC1IL PS20AC1IL PS20AC1WL PS20AC1L PS20AC1REDL 	PS20AC2IL PS20AC2WL PS20AC2L PS20AC2REDL PS20AC2LAL	PS15AC3L PS20AC3IL PS20AC3WL PS20AC3L PS20AC3REDL PS20AC3LAL	PS20AC4IL PS20AC4WL PS20AC4L PS20AC4REDL PS20AC4LAL	15 120/277 20 120/277 20 120/277 20 120/277 20 120/277 20 120/277	Gray Ivory White Gray Red Light Almond

Straight Blade Receptacles

PlugTail™ Specification Grade Receptacles

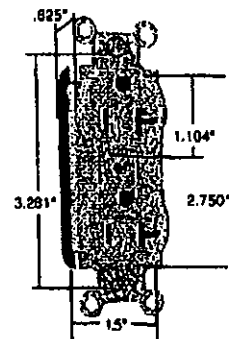
15 & 20A, 125V

Pass & Seymour

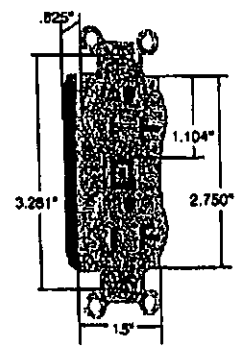
Legend



- | Features | |
|---|---|
| <ul style="list-style-type: none"> ■ .038 inch thick, brass, triple-wipe power contacts for lasting retention. ■ Plated steel wrap strap design for maximum durability and corrosion resistance. ■ No exposed terminals create a finger safe application before, during, and after installation. ■ Built-in connector features large brass terminal blades to ensure consistent, reliable electrical connections. ■ Ultrasonically welded polycarbonate connector housing secures terminations and conductors in a UL Listed, finger safe housing. | <ul style="list-style-type: none"> ■ Crimped and welded contacts. ■ Large brass contacts snugly terminate on device blade terminals. ■ Pre-stripped connector leads fasten to conductors, easier than standard pigtailed. ■ Auto-ground clip assures positive ground. ■ Isolated ground version features a plastic barrier that isolates grounding terminal from mounting strap and metal boxes. |



PT5362LA



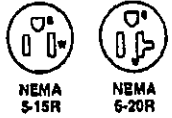
PTIG5362LA

Catalog Number	Rating A. V.	Color	NEMA Config. No.	3rd Party Compliance	
				UL498	FSUL WCS98
Duplex Receptacles					
PT5262I	15 125	Ivory	5-15R	•	•
PT5262W	15 125	White	5-15R	•	•
PT5262	15 125	Brown	5-15R	•	•
PT5262GRY	15 125	Gray	5-15R	•	•
PT5262BK	15 125	Black	5-15R	•	•
PT5262RED	15 125	Red	5-15R	•	•
PT5262LA	15 125	Light Almond	5-15R	•	•
PT5262BL	15 125	Blue	5-15R	•	•
PT5362I	20 125	Ivory	5-20R	•	•
PT5362W	20 125	White	5-20R	•	•
PT5362	20 125	Brown	5-20R	•	•
PT5362GRY	20 125	Gray	5-20R	•	•
PT5362BK	20 125	Black	5-20R	•	•
PT5362RED	20 125	Red	5-20R	•	•
PT5362LA	20 125	Light Almond	5-20R	•	•
PT5362BL	20 125	Blue	5-20R	•	•
Isolated Ground Duplex Receptacles					
PTIG5262I	15 125	Ivory	5-15R	•	•
PTIG5262W	15 125	White	5-15R	•	•
PTIG5262	15 125	Orange	5-15R	•	•
PTIG5262GRY	15 125	Gray	5-15R	•	•
PTIG5262RED	15 125	Red	5-15R	•	•
PTIG5262LA	15 125	Light Almond	5-15R	•	•
PTIG5362I	20 125	Ivory	5-20R	•	•
PTIG5362W	20 125	White	5-20R	•	•
PTIG5362	20 125	Orange	5-20R	•	•
PTIG5362GRY	20 125	Gray	5-20R	•	•
PTIG5362RED	20 125	Red	5-20R	•	•
PTIG5362LA	20 125	Light Almond	5-20R	•	•

NEW

NEW

2 Pole, 3 Wire



For PlugTail Connectors, see Page B-3.

Configurable Solutions and Metal Box Kits for PlugTail Receptacles and Connectors, see Page U-1-U-3.

All devices listed on this page conform to NEMA WD-1 and WD-6.

Straight Blade Receptacles

PlugTail™ Specification Grade Receptacles

Wall Plates Toggle Switch, Duplex & Single Receptacle Openings









Junior-Jumbo & Jumbo Plastic & Metal

Pass & Seymour

 **LeGrand**







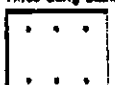



Wall Plates & Specialties

Toggle, Duplex & Single Recept. Openings

Description	Color	Nylon	Thermoset		Metal		
		TradeMaster® Jumbo	Junior-Jumbo	Jumbo	Material	Junior-Jumbo	Jumbo
			Smooth	Smooth		Smooth	Smooth
Toggle Switch Openings							
One Gang 	Ivory White Brown Gray Light Almond	TPJ11 TPJ1W TPJ1 TPJ1GRY TPJ1LA	SPJ11 SPJ1W SPJ1 SPJ1LA	SPO11 SPO1W SPO1	Brass 302S/S	SBJ1 SSJ1	SB01 SS01
Two Gang 	Ivory White Brown Gray Light Almond	TPJ21 TPJ2W TPJ2 TPJ2GRY TPJ2LA	SPJ21 SPJ2W SPJ2 SPJ2LA	SPO21 SPO2W SPO2	Brass 302S/S	SBJ2 SSJ2	SB02 SS02
Three Gang 	Ivory White Brown Gray Light Almond	TPJ31 TPJ3W TPJ3 TPJ3GRY TPJ3LA	SPJ31 SPJ3W SPJ3 SPJ3LA		302S/S	SBJ3 SSJ3	SB03 SS03
Four Gang 	Ivory White Brown Gray Light Almond	TPJ41 TPJ4W TPJ4 TPJ4GRY TPJ4LA	SPJ41 SPJ4W SPJ4 SPJ4LA		302S/S		SB04 SS04
Duplex Receptacle Openings							
One Gang 	Ivory White Brown Gray Light Almond	TPJ81 TPJ8W TPJ8 TPJ8GRY TPJ8LA	SPJ81 SPJ8W SPJ8 SPJ8LA	SPO81 SPO8W SPO8 SPO8LA	Brass 302S/S	SBJ8 SSJ8	SB08 SS08
Two Gang 	Ivory White Brown Gray Light Almond	TPJ821 TPJ82W TPJ82 TPJ82GRY TPJ82LA	SPJ821 SPJ82W SPJ82 SPJ82GRY SPJ82LA	SPO821 SPO82W SPO82	302S/S	SBJ82 SSJ82	SB082 SS082
Three Gang 					302S/S		SB083 SS083
Single Receptacle Openings							
One Gang 	Ivory White Brown Gray Light Almond	TPJ71 TPJ7W TPJ7 TPJ7GRY TPJ7LA	SPJ71 SPJ7W SPJ7 SPJ7LA		302S/S	SBJ7 SSJ7	SB07 SS07

These products listed to UL514. Cover Plates for Flush-Mounted Wiring Devices, CSA Certified.

Wall Plates
Decorator Openings & Blank Plates
 Junior-Jumbo & Jumbo Plastic & Metal

Description	Color	Nylon	Thermoset		Metal		
		TradeMaster® Jumbo	Junior-Jumbo	Jumbo	Material	Junior-Jumbo	Jumbo
			Smooth	Smooth		Smooth	Smooth
Decorator Openings							
One Gang 	Ivory White Brown Gray Red Light Almond	TPJ261 TPJ26W TPJ26 TPJ26GRY TPJ26RED TPJ26LA	SPJ261 SPJ26W SPJ26	SPO261 SPO26W SPO26	Brass 3025-S	SSJ26 SSJ26	SBO26 SSO26
Two Gang 	Ivory White Brown Gray Light Almond	TPJ2621 TPJ262W TPJ262 TPJ262GRY TPJ262LA	SPJ2621 SPJ262W SPJ262	SPO2621 SPO262W SPO262	3025-S	SSJ262	SSO262
Three Gang 	Ivory White Brown Gray Light Almond	TPJ2631 TPJ263W TPJ263 TPJ263GRY TPJ263LA	SPJ2631 SPJ263W SPJ263		3025-S	SSJ263	
Four Gang 	Ivory White Brown Gray Light Almond	TPJ2641 TPJ264W TPJ264 TPJ264GRY TPJ264LA	SPJ2641 SPJ264W SPJ264				
Blank Plates - Box & Strap Mounted							
One Gang Blank - Box Mtd. 	Ivory White Brown Gray Light Almond	TPJ131 TPJ13W TPJ13 TPJ13GRY TPJ13LA	SPJ131 SPJ13W SPJ13	SPO131 SPO13W SPO13	3025-S	SSJ13	SSO13
Two Gang Blank - Box Mtd. 	Ivory White Brown			SPO231 SPO23W SPO23	3025-S		SSO23
Three Gang Blank - Box Mtd. 					3025-S		SSO33
One Gang Blank - Strap Mtd. 					3025-S		SSO14
Two Gang Blank - Strap Mtd. 					3025-S		SSO24
Three Gang Blank - Strap Mtd. 					3025-S		SSO34

Weatherproof Boxes & Covers While-In-Use Covers

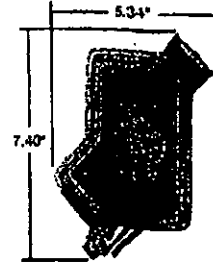
Pass & Seymour

Legend

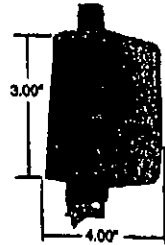
- Features**
- Comply with NEC 2005 Section 406.8(B)(1) for wet location covers, and conform to NEMA 3R.
 - Covers are self-closing as required by UL514C42.3.
 - Covers mount vertically or horizontally.
 - Body, cover, and plates made of polycarbonate.
 - Gasket made of closed cell foam, neoprene blend, regular density, UL Rated HBF.
 - Mounting screws made of 302 stainless steel.
 - Single receptacle plate available in 1.405" and 1.695" openings.
 - Deep model available for 20A locking plugs.
 - Shallow covers accommodate up to 14/3 AWG extension cords.
 - New trigger latch opens easily with one finger.

Catalog Number	Bottom Color	Top Color	Device Plates Provided	Plate Width	Package Quantity	3rd Party Compliance
Single Gang						
WIUC10GL	Gray	Gray		2 1/2"	12	.
WIUC10CL	Clear	Clear				
WIUC10WL	White	White				
Single Gang Shallow						
WIUC10SG	Gray	Gray		2 1/2"	14	.
WIUC10SC	Gray	Clear				
WIUC10SW	White	White				
WIUC10SB	White	Clear				
Single Gang Deep						
WIUC10DGL	Gray	Gray		2 1/2"	9	.
WIUC10DCL	Gray	Clear				
WIUC10DWL	White	White				
Two Gang						
WIUC20GL	Gray	Gray		2"	8	.
WIUC20CL	Gray	Clear				
WIUC20WL	White	White				
Extra Plate Kits						
WIU10PK	Gray		Single Gang Plate Kit	2 1/2"		.
WIU10PKW	White					
WIU20PK	Gray		Two Gang Plate Kit	2"		.
WIU20PKW	White					

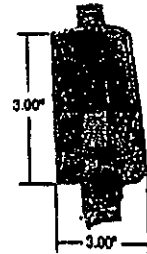
SINGLE GANG COVERS



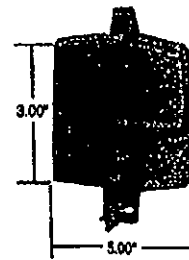
SINGLE GANG



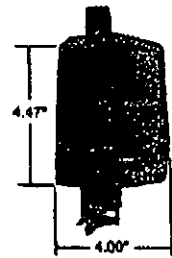
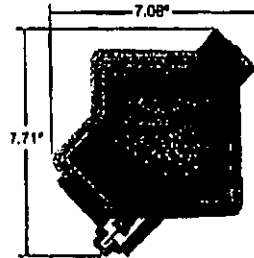
SINGLE GANG SHALLOW



SINGLE GANG DEEP



TWO GANG COVER



Weatherproof Boxes & Covers

While-In-Use Covers



Gexpro

Ray Kimball
Senior Outside Sales

1400 Westinghouse Blvd.
Suite 300
Charlotte, NC 28273

T 704-597-6760 x 4013
F 704-597-6770
D 704-587-4013

To: Greg Mülis

Date : October 15, 2009

AS BUILT DRAWINGS FOR NATIONS FORD HS STADIUM

Light Fixtures

GE Switchgear

CHLORIDE SYSTEMS

TYPE: EX

CATALOG NO.: CADNURA

GENERAL DESCRIPTION

Chloride's CAD Series die cast exit sign combines traditional styling with reliable electronic technology ensuring the readiness of your emergency lighting. The CAD Series employs sealed, maintenance-free nickel cadmium batteries for emergency power.

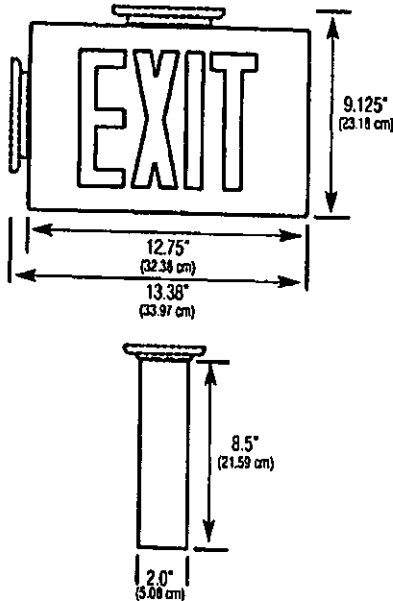
ILLUMINATION

Illumination of the stencil face is accomplished with long-lasting, high output Light Emitting Diodes (LEDs). Hot spots and striations are eliminated by the internal "light chamber" allowing for even illumination in normal and emergency situations.

INSTALLATION

CAD Series supplied standard with two faces, back plate, and canopy to easily facilitate back wall mount, ceiling and end mount. NFPA approved directional chevron knockouts are supplied on the faces. A universal knockout pattern is supplied on the back plate to accommodate back wall mount applications.

DIMENSIONS



Dimensions are approximate and subject to change.

CAD Series

Die Cast Aluminum Exits

Self-Testing Diagnostics (Optional)

LED Illumination

Nickel Cadmium Battery

HOUSING

Rugged die cast aluminum housing, backplate, faces and canopy. Exits are painted with a durable powder coat and available in a black frame with brushed aluminum stencil face, black frame with black stencil face, or white frame with white stencil face.

ELECTRONICS

120/277 VAC, 60 Hz, dual voltage input. Solid state circuitry is surge-protected and provides for a reliable charging system. Standard features include low voltage disconnect, labor saving AC lockout, brownout protection and instantaneous transfer.

Self-Testing Diagnostics (Optional)

The diagnostics routine is activated upon the presence of AC power to ensure proper installation and initialization. Continuous monitoring of the systems critical components include: battery disconnect/failure, charger failure, LED failure, AC line voltage monitoring and transfer circuit failure.

Fault/service monitoring is accomplished via a dual color LED on the outside of the unit so there is no need to open the fixture if trouble shooting is needed. The self-test routine satisfies the exception clause for periodic testing requirements of NFPA 101 and automatically tests the unit for one minute every thirty days and 90 minutes annually.

BATTERY

Maintenance free, sealed nickel cadmium battery supplies a minimum of 90 minutes of power in the emergency mode. Estimated service life of 10 years.



SHOWN: CADNURWAD

CODE COMPLIANCE

UL 924 listed
NFPA 101, NEC, BOCA, OSHA and IBC
illumination standards

ELECTRICAL SPECIFICATIONS

AC Only
Red = 0.026A (120 VAC), 0.012A (277 VAC)
Green = 0.026A (120 VAC), 0.012A (277 VAC)
Self-Powered
Red = 0.033A (120 VAC), 0.017A (277 VAC)
Green = 0.033A (120 VAC), 0.017A (277 VAC)

WARRANTY

Five year full warranty

ORDERING INFORMATION (EXAMPLE: CADNURWAD)

CAD	N	U	R	A	
SERIES	BATTERY TYPE	STENCIL FACES	LETTER COLOR	STENCIL FACE/ HOUSING COLOR	FACTORY INSTALLED OPTIONS
CAD = Die Cast Aluminum Exit	Blank = AC Only N = Nickel Cadmium	U = Universal 2 faces, backplate and canopy	R = Red G = Green	A = Natural Brushed Aluminum Face w/ Black Housing B = Black Stencil Face w/ Black Housing W = White Stencil Face w/ White Housing	AD = Self-Testing Diagnostics ¹

ACCESSORIES

(order as a separate line item)

PKIT12W² = Pendant Kit, 12" white finish
PKIT12B² = Pendant Kit, 12" black finish

NOTES:

1) AD available on nickel cadmium models only and only as universal
2) Custom pendant lengths and colors available, consult factory.

CHLORIDE SYSTEMS

GENERAL DESCRIPTION

Chloride's Tuff-Act wet location and harsh environment exit combines rugged construction and appealing aesthetics. Durable cast aluminum and polycarbonate housing construction, standard vandal resistant/anti-corrosion coated hardware and Intelli-Charge electronics ensures long lasting reliability even in the most severe environments. The Tuff-Act is UL listed for use in wet/damp location applications ranging from -40°F (-40°C) to 113°F (45°C). Tuff-Act exits are shipped with field-selectable chevrons, and can be ordered as a single face or universal (single/double) face configuration. Three color choices are available and stencils may be ordered to match or in an attractively contrasting brushed aluminum finish.

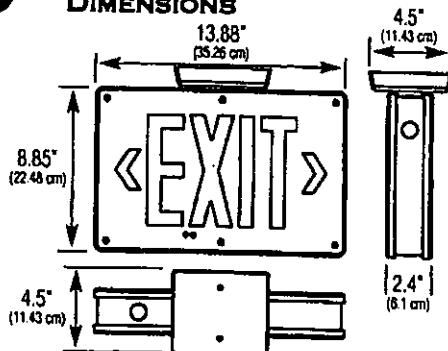
ILLUMINATION

Illumination of the exit stencil face is accomplished with long lasting, high output Light Emitting Diodes (LEDs). Hot spots and striations are eliminated by the internal light chamber, which is specially designed around the high performance LED array. Average illumination levels are in excess of 25ft (79 cd/m²).

INSTALLATION

Exit installation methods include top and end canopy mount and back wall mount. All mounting configurations employ neoprene gaskets between exit housing, canopy and mounting surface. The exit is designed to mount to standard 3/4" and 4" octagonal junction boxes. Provisions in the cast frame allow for up to two 1/2" flex or rigid conduit points.

DIMENSIONS



Dimensions are approximate and subject to change.

Tuff-Act

Wet/Damp Location, Vandal Resistant Exits
Cast Aluminum/Polycarbonate Construction
AC Only & Self-Powered Models
Standard Self-Testing Diagnostics



HOUSING

Die-cast aluminum housing with premium impact-resistant injection molded polycarbonate covers. Housing is powder coated and back cover is molded in color to match. Front cover is clear. Stencil is provided with field selectable chevrons and is contained inside the fully gasketed housing. All exposed hardware is both vandal resistant and anti-corrosion coated. Universal knockouts on backplate allow wall mounting directly to standard junction boxes. Die-cast aluminum canopy is provided for top/side mounting and is powder coated to match housing. Two knockouts are located on the frame to accommodate 1/2" flex or rigid conduit.

ELECTRONICS

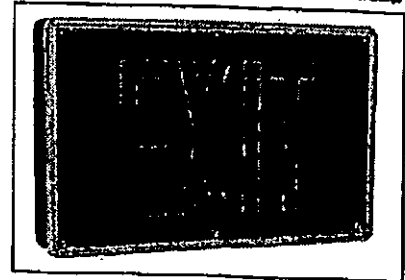
AC Only - 120/277 VAC dual voltage input with surge protection is standard on all models.
Self-Powered - Charging system is microprocessor driven with software embedded diagnostic routine and temperature compensation. See specification sheet C1465 for electronics details.
 120/277 VAC input, surge protection, brownout, AC lockout and low voltage disconnect features are standard.

BATTERY

Maintenance-free, sealed nickel cadmium battery. Supplies 120 minutes of emergency power. Estimated service life of 10 years. Operating temperature range of -40°F (-40°C) to 113°F (45°C). Compliant with IEC 61951-1.

INTELLI-CHARGE SELF-TESTING DIAGNOSTICS (STANDARD)

The Intelli-Charge diagnostic/charging platform with self-testing mode automatically runs a one-minute self-test every 30 days and a 30-minute test on the sixth and twelfth month. A one-minute or 90-minute test may be initiated via the push to test switch on the unit or by activating the appropriate test command on the optional IR test device.



SHOWN: TLN1RBCT

ELECTRICAL SPECIFICATIONS

AC Only Operation - Input Power Requirements

Red - 3.8 watts (120 VAC), PF = 0.96
 3.8 watts (277 VAC), PF = 0.91
 Green - 4.0 watts (120 VAC), PF = 0.95
 4.0 watts (277 VAC), PF = 0.90

Self-Powered - Input Power Requirements

Red - 4.7 watts (120 VAC), PF = 0.95
 4.8 watts (277 VAC), PF = 0.97
 Green - 4.7 watts (120 VAC), PF = 0.95
 4.7 watts (277 VAC), PF = 0.99

CODE COMPLIANCE

UL 924 listed
 UL damp and wet location listing -40°F (-40°C) to 113°F (45°C)
 NFPA 101, NEC, BOCA, OSHA and IBC Illumination standards
 Meets ADA specifications for wall mounted lighting fixtures
 IEC 61951-1 Life Testing (batteries)
 Certified to the California Energy Commission in accordance with California law

WARRANTY

Five-year full electronics warranty.
 Five-year full plus five-year prorated battery warranty.

ORDERING INFORMATION (EXAMPLE: TLN1RBCT)

T	L	N	U	R	BA	ICT	—
SERIES	LAMP	BATTERY TYPE	FACE OPTIONS	LETTER COLOR	STENCIL FACE/ HOUSING COLOR	MODEL DESIGNATOR	FACTORY INSTALLED OPTIONS
T = Tuff-Act Wet Location Exit	L = LED	N = Nickel Cadmium A = AC Only	1 = Single Face U = Universal Single/Double Face	R = Red G = Green	W = White Housing and White Stencil B = Black Housing and Black Stencil G = Gray Housing and Gray Stencil WA = White Housing and Brushed Alum. Stencil BA = Black Housing and Brushed Alum. Stencil GA = Gray Housing and Brushed Alum. Stencil	ICT = Intelli-Charge Self-Testing Diagnostic Electronics	A = Audible Diagnostics BF = Buzzer/Flasher (self-powered units only) BZ = DC Buzzer DC = 12-48 VDC Input (AC only models) EX = Special Input Transformer (consult factory) FA = 24 VDC Fire Alarm Interface FL = Emergency Flasher (self-powered units only) PM = Pendant Mount Only (must order pendant kit accessory) SW = Special Wiring (consult factory) 2CKT1 = 120 VAC Two Circuit (AC only models) 2CKT2 = 277 VAC Two Circuit (AC only models)

ACCESSORIES (order as a separate line item)

ICIR = Intelli-Charge Infra-Red Remote
 T1STPTOOL = Tamperproof Tool
 TPKITB = Pendant Kit, 12" Stem, Black
 TPKITW = Pendant Kit, 12" Stem, White

Note:

- 1) Some options may impact UL listing. Consult factory for specifics.
- 2) Must specify "PM" option for compatibility with pendant kit.

Chloride Systems is a Philips group brand

PHILIPS

Submitted by The Schneider Company



Job Name:
NATION FORD HIGH SCHOOL STADIUM -
478445
Architect: McMILLAN SMITH & PARTNERS -
SPARTANBURG

Catalog Number:
P224-332G-LD36-S-EU

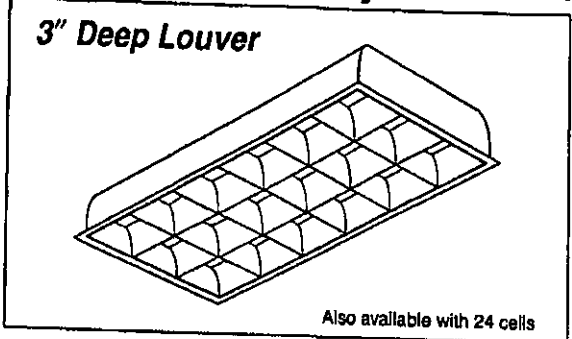
Type:
FRA

Notes:

TSC08-10143

P2 High Efficiency-Parabolic

P224-3 2' x 4' Parabolic 3 Lamp, 18 Cells



Also available with 24 cells

Type: _____
Job Description: _____

Features

- Precision optical system produces the most efficient luminaire in the marketplace without sacrificing high visual comfort.
- Trim and innovative latching fully utilize available opening of the 2' x 4' module to maximize light output.
- Elimination of black reveal produces a consistent transition between the luminaire and ceiling.
- Trim appearance matches that of standard incandescent downlights insuring a consistent ceiling appearance.

Construction

Luminaire housing and end caps are die formed code gauge cold rolled steel. Anodized aluminum louver is secured in open or closed position by die formed steel hinges. Louver hinges from either side. Latches are finger-tip actuated, positive feed type, fabricated of spring steel.

Finish

Painted parts are treated with a five stage phosphate bonding process and finished with a high reflectance baked white enamel after fabrication. Louver is standard specular (SP) natural anodized aluminum. Also available in semi-specular (LD).

Air Handling

Standard recessed P2 is static with extract available as an option. See air removal data on reverse side of sheet. Air supply functions not available.

Installation

For fast wiring connections without the necessity of opening fixture or wireway, a flex connector adapter plate is furnished with each luminaire. A plastic dust cover which eliminates construction dust and protects the lamps is provided as standard.

Labels & Electrical

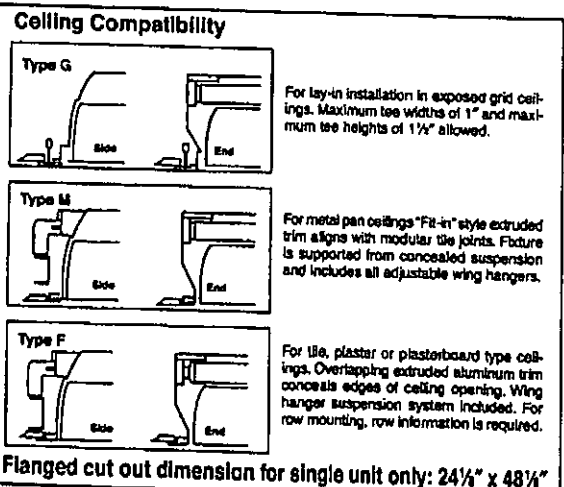
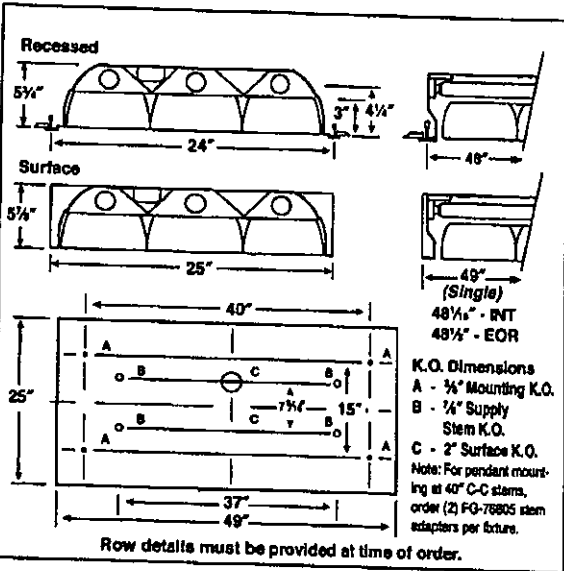
All luminaires are listed with UL and bear appropriate recessed fixture labels. Completely wired with standard class "P", thermally protected, resetting, HPF, CBM, LE ballast. Sound rated A. All ballast leads extend a minimum of 6" through the access opening.

Ceiling Compatibility

Luminaire is available to fit most standard ceiling types as shown at the left. For information on compatibility with specific ceilings, contact your Columbia representative. Luminaires are provided standard with integral T-bar clips.

Surface or Pendant Mount

Attractive surface mount units available to match performance and aesthetics of recessed models. See reverse side for ordering information.



Complete ordering information on back. Dimensions and specifications subject to change without notice.



Submitted by The Schneider Company



Job Name:
NATION FORD HIGH SCHOOL STADIUM -
478445
Architect: McMILLAN SMITH & PARTNERS -
SPARTANBURG

Catalog Number:
P224-332G-LD36-S-EU-EL14

Type:
FRE

Notes:

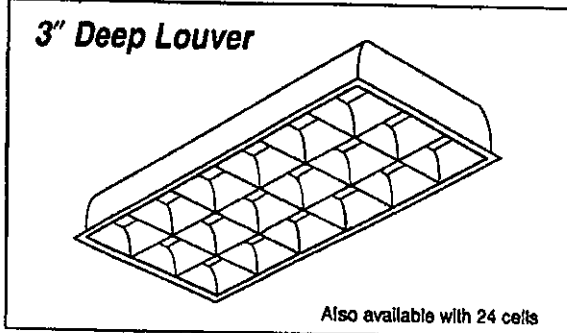
TSC09-1043

P2 High Efficiency Parabolic

P224-3

**2' x 4' Parabolic
3 Lamp, 18 Cells**

3" Deep Louver



Also available with 24 cells

Type: _____
Job Description: _____

Features

- Precision optical system produces the most efficient luminaire in the marketplace without sacrificing high visual comfort.
- Trim and innovative latching fully utilize available opening of the 2' x 4' module to maximize light output.
- Elimination of black reveal produces a consistent transition between the luminaire and ceiling.
- Trim appearance matches that of standard incandescent downlights insuring a consistent ceiling appearance.

Construction

Luminaire housing and end caps are die formed code gauge cold rolled steel. Anodized aluminum louver is secured in open or closed position by die formed steel hinges. Louver hinges from either side. Latches are finger-tip actuated, positive feed type, fabricated of spring steel.

Finish

Painted parts are treated with a five stage phosphate bonding process and finished with a high reflectance baked white enamel after fabrication. Louver is standard specular (SP) natural anodized aluminum. Also available in semi-specular (LD).

Air Handling

Standard recessed P2 is static with extract available as an option. See air removal data on reverse side of sheet. Air supply functions not available.

Installation

For fast wiring connections without the necessity of opening fixture or wireway, a flex connector adapter plate is furnished with each luminaire. A plastic dust cover which eliminates construction dust and protects the lamps is provided as standard.

Labels & Electrical

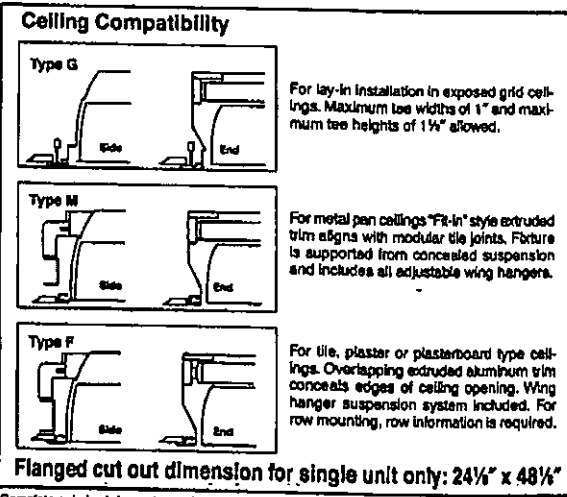
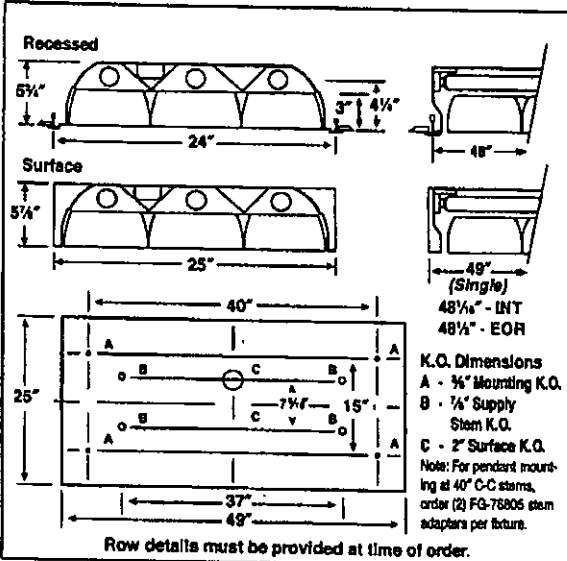
All luminaires are listed with UL and bear appropriate recessed fixture labels. Completely wired with standard class "P", thermally protected, resetting, HPF, CBM, LE ballast. Sound rated A. All ballast leads extend a minimum of 6" through the access opening.

Ceiling Compatibility

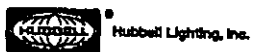
Luminaire is available to fit most standard ceiling types as shown at the left. For information on compatibility with specific ceilings, contact your Columbia representative. Luminaires are provided standard with integral T-bar clips.

Surface or Pendant Mount

Attractive surface mount units available to match performance and aesthetics of recessed models. See reverse side for ordering information.



Complete ordering information on back. Dimensions and specifications subject to change without notice.



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P62



Job Name:
NATION FORD HIGH SCHOOL STADIUM -
478445
Architect: McMILLAN SMITH & PARTNERS -
SPARTANBURG

Catalog Number:
P224-332G-LD36-S-EU-EL14

Type:
FRE

Notes:

TSC08-10143

Columbia Environmental Laboratories

REPORT # 11270
DATE: 11/22/93

LUMINAIRE: P224-332G-LD36-S-EU-EL14

2 x 4 2-LAMP 1-0 RECESSED WITH 3 x 4 CELL SPECULAR LAMPS
241 2422120041 LUMPS: P224/332G S/EU EL14
LAMP SPACED AT 7000 LUMENS EACH
LUMINOUS AREA: 44.36 2 27.9

REFLECTANCE: 0.85 0.72

RELATING: RECESS

PLAT OF NORMAL PLANE
DIRECTION: PAUL 22 NORTH 42

ROOM	W	L	Ht.	Area	Vol.	Surf. Area	Surf. Vol.
001	20.0	20.0	10.0	400	2000	400	2000
002	20.0	20.0	10.0	400	2000	400	2000
003	20.0	20.0	10.0	400	2000	400	2000
004	20.0	20.0	10.0	400	2000	400	2000
005	20.0	20.0	10.0	400	2000	400	2000
006	20.0	20.0	10.0	400	2000	400	2000
007	20.0	20.0	10.0	400	2000	400	2000
008	20.0	20.0	10.0	400	2000	400	2000
009	20.0	20.0	10.0	400	2000	400	2000
010	20.0	20.0	10.0	400	2000	400	2000
011	20.0	20.0	10.0	400	2000	400	2000
012	20.0	20.0	10.0	400	2000	400	2000
013	20.0	20.0	10.0	400	2000	400	2000
014	20.0	20.0	10.0	400	2000	400	2000
015	20.0	20.0	10.0	400	2000	400	2000
016	20.0	20.0	10.0	400	2000	400	2000
017	20.0	20.0	10.0	400	2000	400	2000
018	20.0	20.0	10.0	400	2000	400	2000
019	20.0	20.0	10.0	400	2000	400	2000
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086	20.0	20.0	10.0	400	2000	400	2000
087	20.0	20.0	10.0	400	2000	400	2000
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089	20.0	20.0	10.0	400	2000	400	2000
090	20.0	20.0	10.0	400	2000	400	2000
091	20.0	20.0	10.0	400	2000	400	2000
092	20.0	20.0	10.0	400	2000	400	2000
093	20.0	20.0	10.0	400	2000	400	2000
094	20.0	20.0	10.0	400	2000	400	2000
095	20.0	20.0	10.0	400	2000	400	2000
096	20.0	20.0	10.0	400	2000	400	2000
097	20.0	20.0	10.0	400	2000	400	2000
098	20.0	20.0	10.0	400	2000	400	2000
099	20.0	20.0	10.0	400	2000	400	2000
100	20.0	20.0	10.0	400	2000	400	2000

LEER = FP-67 TESTED BY: R.K. APPROVED BY: [Signature]

TEST RUN IN ACCORDANCE TO CURRENT I.E.S. PUBLISHED PROCEDURES

Coefficients of Utilization

Zonal Cavity Method

RC RW	80				70				50				0
	70	50	30	10	70	50	30	10	50	30	10	0	
1	87	85	82	80	85	83	81	79	80	78	76	71	
2	81	78	72	69	80	75	71	68	72	69	67	63	
3	78	69	64	60	74	68	63	59	65	61	58	55	
4	70	62	58	52	68	61	55	51	59	54	51	48	
5	64	55	49	44	63	54	49	44	53	48	44	42	
6	59	50	43	39	58	49	43	39	49	42	38	36	
7	54	44	38	34	53	44	38	33	43	37	33	31	
8	50	40	33	29	49	39	33	29	38	33	29	27	
9	46	35	29	25	44	35	29	25	34	28	25	23	
10	42	32	26	22	41	31	26	22	31	25	21	20	

Photometric Report No. 11270

Visual Comfort Probability

Reflectance - 80, 50, 20
Work Plane Illumination - 100 FC @ 2.5 ft.

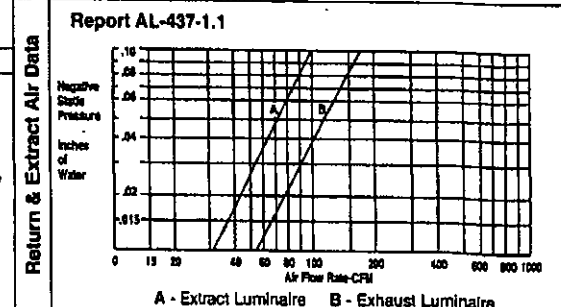
Room	Room	W	L	Ht.	Luminaire Lengthwise				Luminaire Crosswise			
					8.5	10.0	13.0	16.0	8.5	10.0	13.0	16.0
20	20				74	69	68	77	85	79	78	78
20	40				82	77	70	66	89	85	81	78
30	30				84	79	69	65	90	85	79	72
30	60				88	84	77	70	93	89	85	79
40	40				89	85	77	69	94	89	84	78
40	60				90	87	80	72	94	91	86	79
60	30				89	85	78	70	94	90	83	75
60	40				91	87	80	72	95	91	86	77
60	60				92	89	82	75	95	92	88	80

Energy Data

LER: FP-67 Energy Cost: \$3.58*
Input Watts: 89 BF: .88

The above energy calculations were conducted using a specific lamp/ballast combination. Actual results may vary depending upon the lamp and ballast used. Lamp and ballast specifications are subject to change without notice.

*Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0.08 per KWH.



Ordering Information

Model: P2 - Recessed

Fixture Size: 24 - 2' x 4'

No. of Lamps: 3 - (3) Lamps

Lamp Type: AR-A T12 40 Watt 32 - 4' T8, 32 Watt

Ceiling Type: G - Inverted T-Bar

No. Cells Lengthwise: 8 - Six

No. Cells Crosswise: 3 - Three

Louver Finish: LS - Specular Low Incidence

Ballast: E - Electronic T8, Instant Start

Voltage: U - 120V-277V

Air Handling Function: S - Static

Options: GMF - Slow Blow Fuse, GLR - Fast Blow Fuse, CSA - UL Listed or CSA certified for Canada, EL - Emergency Battery Pack, MS9 - Master/Slave pair with 9' harness, F0730 - T8 Lamp installed 70 CRI, 3000K, F0735 - T8 Lamp installed 70 CRI, 3500K, F0741 - T8 Lamp installed 70 CRI, 4100K

EL14 - EMERGENCY BATTERY PACK





Job Name:
NATION FORD HIGH SCHOOL STADIUM -
478445
Architect: McMILLAN SMITH & PARTNERS -
SPARTANBURG

Catalog Number:
CS4-232-EU-PAF CSWG4/MW
CSHC
Notes:

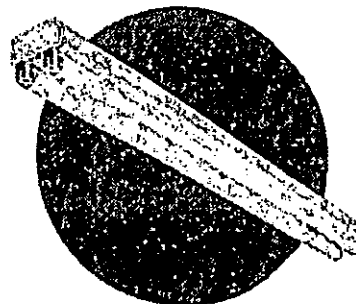
Type:
FSA

TSC08-10143

Straight-Sided Utility Channel

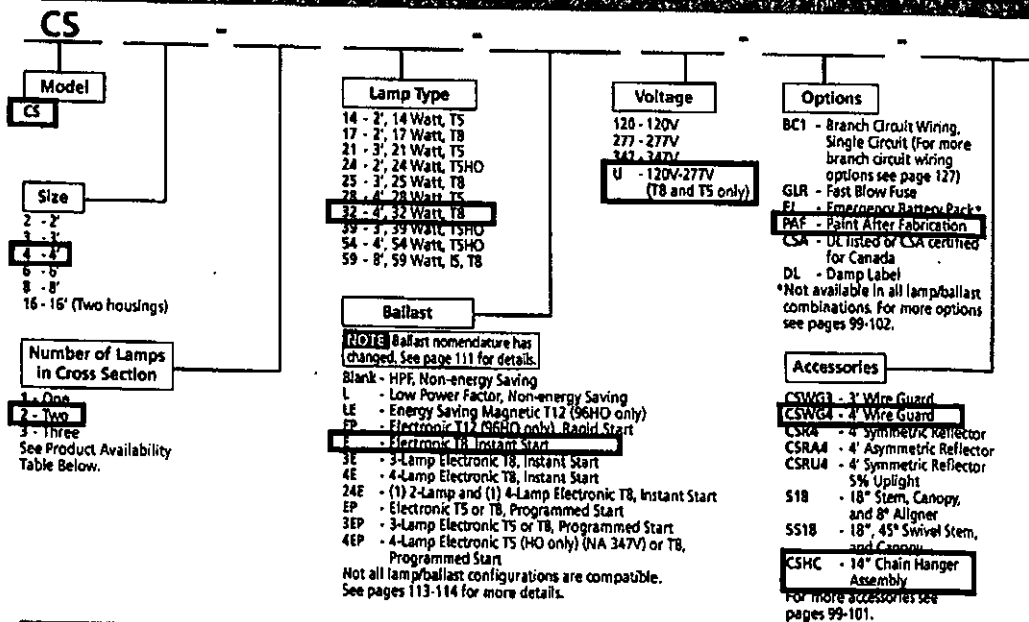
Features

- Die formed steel housing with heat sink embossments for cooler running ballasts
- Ballast cover retained by 1/4 turn fasteners
- Individual or row mounting, surface or suspended
- Channel ends double as joiners
- All metal parts are treated with a five stage phosphate bonding process and finished with a baked white enamel
- Listed for use on combustible low density, cellulose fiberboard ceilings
- UL listed 1598
- Damp label available on most models
- NEC/CEC-compliant ballast disconnect standard for appropriate models - see page 111



Ordering Information

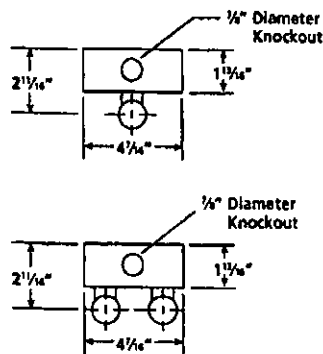
Example: CS4-232-EU



Product Availability

Size	Lamps in Cross Section	Lamps in Fixture	Lamp Type	Width	Length	Height
2'	1	1	14, 17, 24	4 1/4"	24"	1 1/8"
	2	2	14, 17, 24	4 1/4"	24"	1 1/8"
	3	3	17	4 1/4"	24"	1 1/8"
3'	1	1	21, 25, 39	4 1/4"	36"	1 1/8"
	2	2	21, 25, 39	4 1/4"	36"	1 1/8"
	3	3	25	4 1/4"	36"	1 1/8"
4'	1	1	28, 32, 54	4 1/4"	48"	1 1/8"
	2	2	28, 32, 54	4 1/4"	48"	1 1/8"
	3	3	28, 32, 54	4 1/4"	48"	1 1/8"
6'	1	1	21, 25, 39	4 1/4"	72"	1 1/8"
	2	2	21, 25, 39	4 1/4"	72"	1 1/8"
	3	6	21, 25, 39	4 1/4"	72"	1 1/8"
8'	1	2	28, 32, 54	4 1/4"	96"	1 1/8"
	1	1	54, 59	4 1/4"	96"	1 1/8"
	2	4	28, 32, 54	4 1/4"	96"	1 1/8"
	2	2	54, 59	4 1/4"	96"	1 1/8"
	3	6	28, 32	4 1/4"	96"	1 1/8"
16' (Two housings)	1	4	28, 32, 54	4 1/4"	192"	1 1/8"
	1	2	54, 59	4 1/4"	192"	1 1/8"
	2	8	28, 32, 54	4 1/4"	192"	1 1/8"
	2	4	54, 59	4 1/4"	192"	1 1/8"

Cross Sections



Submitted by The Schneider Company










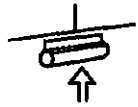






Job Name:
NATION FORD HIGH SCHOOL STADIUM -
478445
Architect: McMILLAN SMITH & PARTNERS -
SPARTANBURG

Catalog Number:
CS4-232-EU-PAF CSWG4/MW
CSHC
Notes:

Type:
FSA

TSC08-10143

Options Channels, Strips, and Industrials

Item	Catalog No.	Description	For Use With
	CS2	Ceiling spacer for mounting directly to outlet box. Used to comply with Natl. Elec. Code requisition number 410-76B for mounting fixtures below combustible low density cellulose fiberboard ceilings.	Maintains 1½" between top of fixture channel and the ceiling surface to be used when mounted directly to outlet box.
	KC2	Heavy duty 10" sleeve coupler.	K, KL, KL-PR, KL-VR, KL-PVR, KT CSR (HO and VHO).
	CHRA2	Asymmetric reflector for 24" fixtures.	All 1-lamp CH series fixtures.
	CHRA4	Asymmetric reflector for 48" fixtures (order 2 for 8' units).	
	CHR2	Symmetric reflector for 24" fixtures.	All 1-lamp CH series fixtures.
	CHR3	Symmetric reflector for 36" fixtures.	
	CHR4	Symmetric reflector for 48" fixtures (order 2 for 8' units).	
	CHRAC	Reflector aligner clips (1 pair). Order one less pair than number of reflectors in row.	CHR2, CHR3, CHR4, CHRA2, and CHRA4 symmetric and asymmetric reflectors.
	CHWG4	48" wire guard.	For any 3', 4', 6', or 8' 1-lamp CH series unit.
	CHWG3	36" wire guard.	
	CSWG4	48" wire guard.	For any 3', 4', 6', or 8' CS, or K channel.
	CSWG3	36" wire guard.	
	CSR4	Symmetric reflector for 48" fixtures. Order 2 per 8' unit. Center saddles are required for 8' channels. For CS channel, order center saddle CSSAD. For K channel, order center saddle KSAD.	CS or K series (except TURRET).
	CSR4A	Asymmetric reflector for 48" fixtures. Order 2 per 8' unit. Center saddles are required for 8' channels. For CS channel, order center saddle CSSAD. For K channel, order center saddle KSAD.	CS or K series (except TURRET).

06

CO 06/07

Columbia
LIGHTING

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Hubbell Lighting, Inc.

Submitted by The Schneider Company

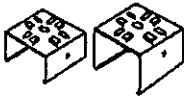
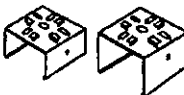


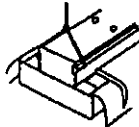



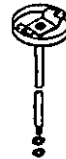


Job Name:
NATION FORD HIGH SCHOOL STADIUM -
478445
Architect: McMILLAN SMITH & PARTNERS -
SPARTANBURG

Catalog Number:
CS4-232-EU-PAF CSWG4/MW
CSHC
Notes:

Type:
FSA
TSC08-10143

Options Channels, Strips, and Industrials

Item	Catalog No.	Description	For Use With
	CSZTF CSZT	Zip Tee hanger flush mounting. Designed for 15/16" wide T-Bars. Zip Tee Hanger 1 1/2" spacer. Designed for 15/16" wide T-Bars.	CS and CSR series except HO and VHO.
	KZTF KZT	Zip Tee hanger flush mounting. Designed for 15/16" wide T-Bars. Zip Tee Hanger 1 1/2" spacer. Designed for 15/16" wide T-Bars.	CSR-HO and VHO, K, KL, KL-PR, KL-VR, KL-PVR, and KT.
	CSTH	Slide tong hanger for ungrooved channel.	CS and CSR series (RS and SL). For HO and VHO, use KTH
	KTH	Slide tong hanger with 7/8" hole.	K, KL, KL-PR, KL-VR, KL-PVR and KT.
	CSHC KHC	Chain hanging assembly includes two 14" lengths of chain and two hanger hooks. Chain hanging assembly includes two 24" length of chain and two hanger hooks.	CS and CSR (RS ONLY). K, KL, KL-PR, KL-VR, KL-PVR, KT, CSR (HO and VHO).
	ITB4	Hanger for close to ceiling mounting on inverted T-Bar ceiling	All surface mounted fixtures.
	CS4	All purpose spacer (1 1/2" x 2 1/2" x 4").	Maintains 1/2" space between fixture and any type installation.
	CS5	All purpose spacer with special T-bar clip and stud for mounting to inverted T-bar ceiling.	For use maintaining 1/2" space between fixture ceiling on and T-Bar Ceiling.
	S18 C18 S018	Single Canopy, 1-18" stem - All white finish, 8° swivel Single canopy only - All white finish, 8° swivel. 1-18" stem only - All white finish.	Individual or continuous row mounting of all commercial fixtures, using knock-outs near end of fixtures.
	SS18	18", 45° swivel stem and canopy	Individual or continuous row mounting of all commercial fixtures, using knock-outs near end of fixtures.



Hubbell Lighting, Inc.

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O6



Job Name:
NATION FORD HIGH SCHOOL STADIUM -
478445
Architect: McMILLAN SMITH & PARTNERS -
SPARTANBURG

Catalog Number:
VRM4-232-EU-PAF

Type:
FSB

Notes:

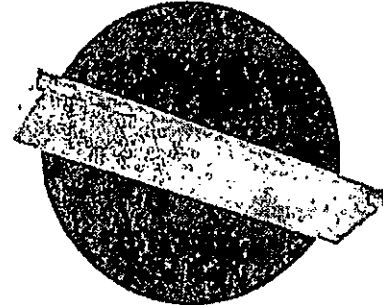
TSC08-10143

Vandal Resistant Wraparound

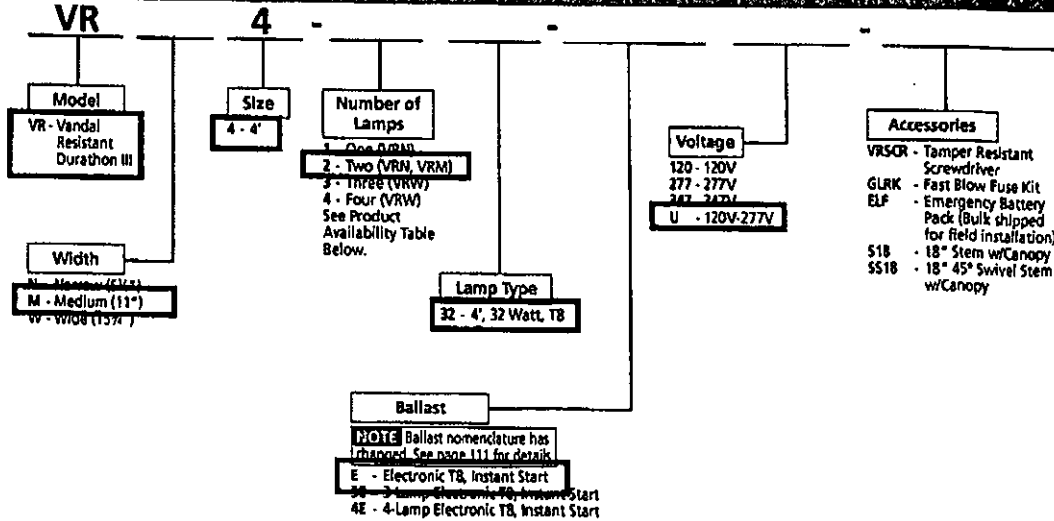
VR

Features

- Ideal for vandal-prone areas, such as schools, hallways, dormitories, restrooms, bus stops, and locker rooms
- Effective, secure illumination mounts to ceilings or walls
- Rugged, 16 gauge heavy duty steel housing
- Diffuser is UV stabilized .130" thick, one-piece, prismatic polycarbonate for high-impact protection
- Formed end cap welded to housing for additional strength
- Wireway extends below lamp to protect lamp for impact breakage
- White powder coat finish painted after fabrication
- For ceiling, wall, or pendant - individual or in continuous row
- Six tamper-resistant screws protect against unauthorized entry
- UL listed and/or CSA certified for wet locations (ceiling mount), damp locations (wall mount)
- NEC/CEC-compliant ballast disconnect standard for appropriate models - see page 111



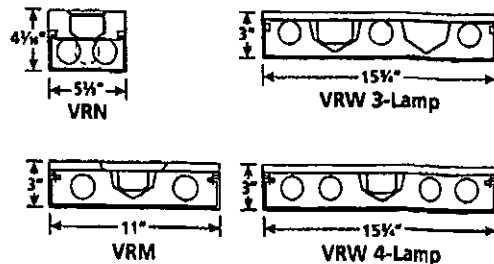
Ordering Information Example: VRW4-332-3EU



Product Availability

Size	Number of Lamps	Lamp Type	Width	Length	Height
4' VRN	1	32	5 1/4"	48 1/4"	4 3/4"
4' VRM	2	32	5 1/4"	48 1/4"	4 3/4"
4' VRW	3	32	15 3/4"	48 1/4"	3"
4' VRW	4	32	15 3/4"	48 1/4"	3"

Cross Sections



Submitted by The Schneider Company



Job Name:
NATION FORD HIGH SCHOOL STADIUM -
478445
Architect: McMILLAN SMITH & PARTNERS -
SPARTANBURG

Catalog Number:
CS4-232-EU-PAF-EL14 CSWG4/
MW CSHC
Notes:

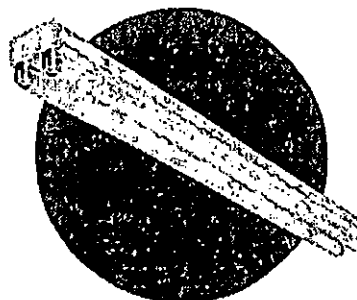
Type:
FSE

TSC08-10143

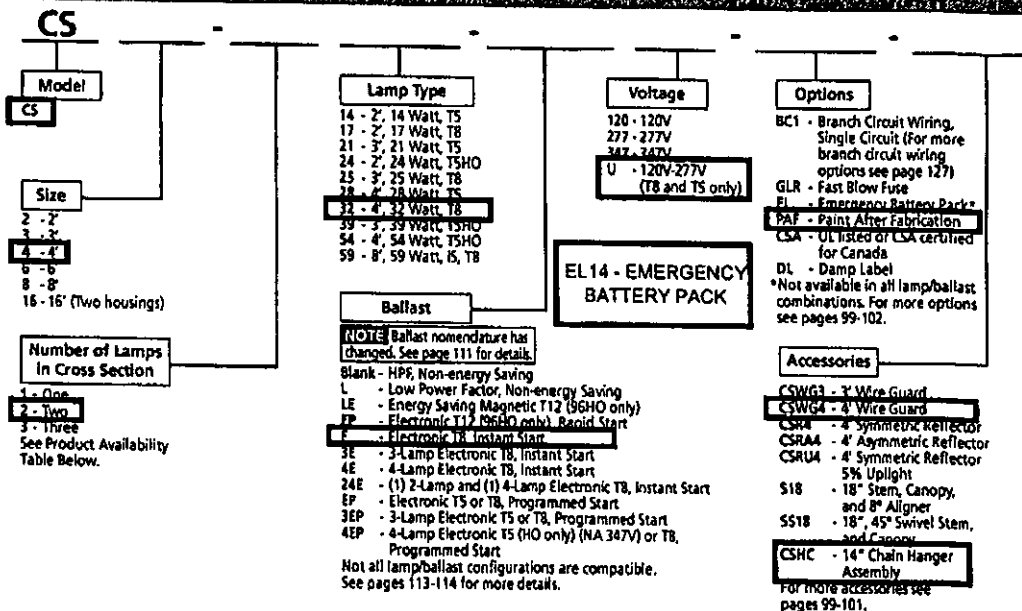
Straight-Sided Utility Channel

Features

- Die formed steel housing with heat sink embossments for cooler running ballasts
- Ballast cover retained by 1/4 turn fasteners
- Individual or row mounting, surface or suspended
- Channel ends double as joiners
- All metal parts are treated with a five stage phosphate bonding process and finished with a baked white enamel
- Listed for use on combustible low density, cellulose fiberboard ceilings
- UL listed 1598
- Damp label available on most models
- NEC/CEC-compliant ballast disconnect standard for appropriate models - see page 111



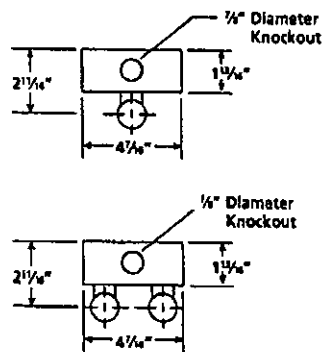
Ordering Information Example: CS4-232-EU



Product Availability

Size	Lamps In Cross Section	Lamps In Fixture	Lamp Type	Width	Length	Height
2'	1	1	14, 17, 24	4 1/4"	24"	1 1/4"
	2	2	14, 17, 24	4 1/4"	24"	1 1/4"
	3	3	17	4 1/4"	24"	1 1/4"
3'	1	1	21, 25, 39	4 1/4"	36"	1 1/4"
	2	2	21, 25, 39	4 1/4"	36"	1 1/4"
	3	3	25	4 1/4"	36"	1 1/4"
4'	1	1	28, 32, 54	4 1/4"	48"	1 1/4"
	2	2	28, 32, 54	4 1/4"	48"	1 1/4"
	3	3	28, 32, 54	4 1/4"	48"	1 1/4"
6'	1	1	21, 25, 39	4 1/4"	72"	1 1/4"
	2	2	21, 25, 39	4 1/4"	72"	1 1/4"
	3	6	21, 25, 39	4 1/4"	72"	1 1/4"
8'	1	2	28, 32, 54	4 1/4"	96"	1 1/4"
	1	1	54, 59	4 1/4"	96"	1 1/4"
	2	4	28, 32, 54	4 1/4"	96"	1 1/4"
	2	2	54, 59	4 1/4"	96"	1 1/4"
	3	6	28, 32	4 1/4"	96"	1 1/4"
16' (Two housings)	1	4	28, 32, 54	4 1/4"	192"	1 1/4"
	1	2	54, 59	4 1/4"	192"	1 1/4"
	2	8	28, 32, 54	4 1/4"	192"	1 1/4"
	2	4	54, 59	4 1/4"	192"	1 1/4"

Cross Sections



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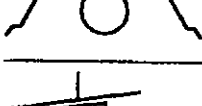
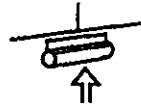






Job Name:
NATION FORD HIGH SCHOOL STADIUM -
478445
Architect: McMILLAN SMITH & PARTNERS -
SPARTANBURG

Catalog Number:
CS4-232-EU-PAF-EL14 CSWG4/
MW CSHC
Notes:

Type:
FSE

TSC08-10143

Options Channels, Strips, and Industrials

Item	Catalog No.	Description	For Use With
	CS2	Ceiling spacer for mounting directly to outlet box. Used to comply with Natl. Elec. Code requisition number 410-76B for mounting fixtures below combustible low density cellulose fiberboard ceilings.	Maintains 1½" between top of fixture channel and the ceiling surface to be used when mounted directly to outlet box.
	KC2	Heavy duty 10" sleeve coupler.	K, KL, KL-PR, KL-VR, KL-PVR, KT CSR (HO and VHO).
	CHRA2	Asymmetric reflector for 24" fixtures.	All 1-lamp CH series fixtures.
	CHRA4	Asymmetric reflector for 48" fixtures (order 2 for 8' units).	
	CHR2	Symmetric reflector for 24" fixtures.	All 1-lamp CH series fixtures.
	CHR3	Symmetric reflector for 36" fixtures.	
	CHR4	Symmetric reflector for 48" fixtures (order 2 for 8' units).	
	CHRAC	Reflector aligner clips (1 pair). Order one less pair than number of reflectors in row.	CHR2, CHR3, CHR4, CHRA2, and CHRA4 symmetric and asymmetric reflectors.
	CHWG4	48" wire guard.	For any 3', 4', 6', or 8' 1-lamp CH series unit.
	CHWG3	36" wire guard.	
	CSWG4	48" wire guard.	For any 3', 4', 6', or 8' CS, or K channel.
	CSWG3	36" wire guard.	
	CSR4	Symmetric reflector for 48" fixtures. Order 2 per 8' unit. Center saddles are required for 8' channels. For CS channel, order center saddle CSSAD. For K channel, order center saddle KSAD.	CS or K series (except TURRET).
	CSR4A	Asymmetric reflector for 48" fixtures. Order 2 per 8' unit. Center saddles are required for 8' channels. For CS channel, order center saddle CSSAD. For K channel, order center saddle KSAD.	CS or K series (except TURRET).

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Architect: McMILLAN SMITH & PARTNERS -
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Catalog Number:
CS4-232-EU-PAF-EL14 CSWG4/
MW CSHC
Notes:

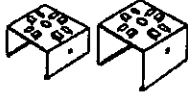
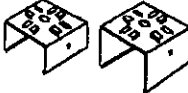


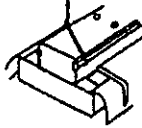




Type:

FSE

TSC08-10143

Options

Channels, Strips, and Industrials

Item	Catalog No.	Description	For Use With
	CSZTF CSZT	Zip Tee hanger flush mounting. Designed for 15/16" wide T-Bars. Zip Tee Hanger 1 1/2" spacer. Designed for 15/16" wide T-Bars.	CS and CSR series except HO and VHO.
	KZTF KZT	Zip Tee hanger flush mounting. Designed for 15/16" wide T-Bars. Zip Tee Hanger 1 1/2" spacer. Designed for 15/16" wide T-Bars.	CSR-HO and VHO, K, KL, KL-PR, KL-VR, KL-PVR, and KT.
	CSTH	Slide tong hanger for ungrooved channel.	CS and CSR series (RS and SL). For HO and VHO, use KTH
	KTH	Slide tong hanger with 7/8" hole.	K, KL, KL-PR, KL-VR, KL-PVR and KT.
	CSHC KHC	Chain hanging assembly includes two 14" lengths of chain and two hanger hooks. Chain hanging assembly includes two 24" length of chain and two hanger hooks.	CS and CSR (RS ONLY). K, KL, KL-PR, KL-VR, KL-PVR, KT, CSR (HO and VHO).
	ITB4	Hanger for close to ceiling mounting on inverted T-Bar ceiling	All surface mounted fixtures.
	CS4	All purpose spacer (1 1/2" x 2 1/2" x 4").	Maintains 1/2" space between fixture and any type installation.
	CS5	All purpose spacer with special T-bar clip and stud for mounting to inverted T-bar ceiling.	For use maintaining 1/2" space between fixture ceiling on and T-Bar ceiling.
	S18 C18 S018 SS18	Single Canopy, 1-18" stem - All white finish, 8° swivel Single canopy only - All white finish, 8° swivel. 1-18" stem only - All white finish. 18", 45° swivel stem and canopy	Individual or continuous row mounting of all commercial fixtures, using knock-outs near end of fixtures. Individual or continuous row mounting of all commercial fixtures, using knock-outs near end of fixtures.



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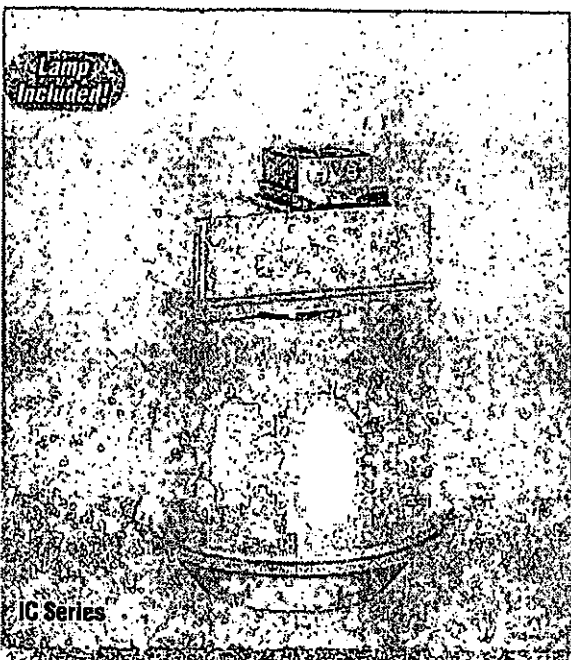
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LIGHTING

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Low Bay

Compact

IC SERIES



IC Series

Compact Low Bay

The compact size and efficient optical performance of the Compact Low Bay make it an ideal choice for low to medium mounting heights. It is ideal for many typical industrial applications as well as for commercial and retail sites.

Wet-Listed Fixture Option

Wet-listed IP65-rated fixture housing and lens frame is fully silicone gasketed. Fixture includes acrylic drop lens. Optic can be opened with tool-less, quick release latches. All exposed hardware is stainless steel. The optional IP65-rated fixtures are ideal for illuminating produce storage centers, warehouses, dairy barns and other commercial locations including refrigeration zones, areas where misting occurs regularly, or those with dust infiltration. The IP65-rated fixtures are suitable for environments with heavy spray-downs.

Reflector

The Compact Low Bay reflector measures 16.6 inches in diameter and is totally enclosed and gasketed. A Dacron® breather gasket is installed between the lens and reflector. An improved, high-reflectance, ultra-durable white powder paint provides a durable finish, while improving heat dissipation and distribution. Reflector efficiency in excess of 76 percent provides a spacing criterion of 1.6. IP65-rated fixture reflectors are totally enclosed with full silicone gasketing at connection to fixture and between standard acrylic drop refractor lens and frame.

Refractor Lens

The acrylic refractor is injection molded with a prismatic design to soften and disperse light from the reflector. This

optical system is designed to maximize efficiency and distribution while controlling glare. This lens is held in place by an aluminum support ring, which clips to the reflector. One clip is secured to the reflector to support the lens for ease when relamping. An optional polycarbonate refractor is available for installations where the fixture is at risk of impact, such as in a gymnasium.

Ballast

The sturdy, die-cast aluminum housing, which encloses the electrical components, is our EZ Bay Plus® Series housing. A thermal chimney separates the ballast core and coil from the capacitor and other components and allows socket heat to escape fixture, thereby extending their useful life. High-power-factor ballast options are available in 120, 208, 240, 277, 347 or 480 volts. High-power-factor quad-volt (120/208/240/277V) or tri-volt (120/277/347V) ballasts are standard with HSB Mount.

Lamps

Fixture includes mogul-base lamp. Available in 150, 250, 320 or 400W PSMH; 175, 250 or 400W MH; 150, 250 or 400W HPS.

Mountings

Hinged Splice Box (HSB): (Fixed Pendant mount for IP65); Hook, Cord & Plug (HCP); (Eyebolt and Cord mount for IP65). See pages 96-99 for more information on our EZ Connect® Modular Wiring System.

Labels

UL and cUL Listed for damp and wet (IP65-rated fixture option) locations and for a maximum ambient temperature of 40°C; most wattages higher - See Technical Data Sheet TD-12 on our web site.



Order Information

Wattage/ Lamp Type	Catalog Number HSB Mount	Catalog Number HCP Mount
150W PSMH	IC1615-M	IC2615-(a)
250W PSMH	IC1625-M	IC2625-(a)
320W PSMH	IC1632-M	IC2632-(a)
400W PSMH	IC1640-M	IC2640-(a)
175W MH	IC1417-M	IC2417-(a)
250W MH	IC1425-M	IC2425-(a)
400W MH	IC1440-M	IC2440-(a)
150W HPS	IC1515-M	IC2515-(a)
250W HPS	IC1525-M	IC2525-(a)
400W HPS	IC1540-M	IC2540-(a)

Some states prohibit these products from being sold.
E128 reduced envelope lamp standard on 320W PSMH

Other lamp wattages available - consult factory
Wet-Listed IP65 option (use IP prefix to replace I).
Example: IPC1625-M

EZ Connect 10 ga. system use IC6 prefix (add "A", "B" or "C" after IC6 to denote phase).
EZ Connect 12 ga. system use IC7 prefix
See pages 96-99 for more information on our EZ Connect Modular Wiring System.

Options: (Factory-Installed)	Change Suffix To	Add After Suffix
Ballast choices for Hinged Splice Box (HSB) models		
277V Reactor Ballast (PSMH only)	27	
480V	5	
Tri-volt (120/277/347V)	T	
(a) Ballast choices for Hook, Cord & Plug (HCP) models		
277V Reactor Ballast (PSMH only)	27	
120V, 277V, 208V or 240V	1, 2, 3 or 4	
480V	5	
347V	6	
Single Fuse (277V Reactor, 120V, 277V or 347V)	27, 1, 2 or 6	F
Dual Fuse (208V, 240V or 480V) (v/s Canada)	3, 4 or 5	F
2-Level (120V or 277V) (250, 320 or 400W PSMH, 250 or 400W MH)	1 or 2	G
2-Level Integrated Sensor (250, 320 & 400W PSMH, 250 & 400W MH) (120, 277, 208, 240, 480 or 347V)	1, 2, 3, 4, 5 or 6	K
Quartz Standby (delay-relay type) (includes 100W Q lamp) (v/s 277V Reactor) †		Q
Polycarbonate Drop Prismatic Lens		V

Accessories: (Field-Installed)	Catalog Number
Locking-type Receptacle (120V)	L5-15R
Locking-type Receptacle (120V) (4-wire G option only)	L14-20R
Locking-type Receptacle (208/240V)	L6-15R
Locking-type Receptacle (277V)	L7-15R
Locking-type Receptacle (277V) (4-wire G option only)	L16-20R
Locking-type Receptacle (347V)	L37-20R
Locking-type Receptacle (480V)	L8-20R
Power Hook (for use with HCP mount) (120V, 277V, 208V, 240V or 480V)	PH-(a) (1, 2, 3, 4 or 5)
NOTE: Specify PH-2 for 277V Reactor.	
Power Hook (for use with 2-Level & HCP mount) (120V or 277V)	PH-(a) (1G or 2G)
Power Hook (for use with HCP mount) (347V)	PH*6
Safety Cable with Hang-Fast-Galvanized (5/16 in)	SC-5
Safety Cable with Hang-Fast-Stainless (5/16 in) (IP65) †	SC-5C

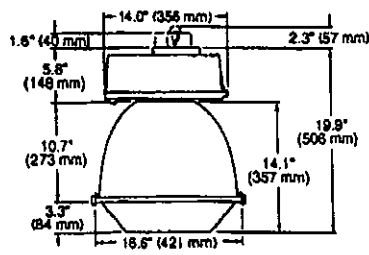
† Available for use on IP65 fixtures.

Catalog Number Logic/Voltage Suffix Key Page 63

Mountings, Options & Accessories Pages 90-91

2-Level Option (250, 320, or 400W PSMH, 250 or 400W MH) Pages 92-95

EZ Connect Modular Wiring System Pages 96-99



RUUD
LIGHTING

Compact Low Bay

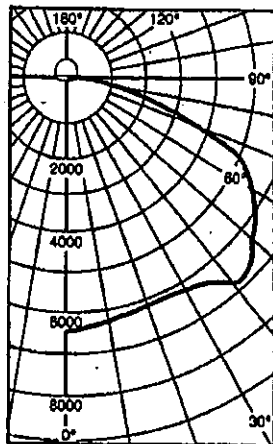
Metal Halide

Lamp: 400 Watt (Clear) - 36,000 lumens

Lens: Drop Prismatic Acrylic

Test Distance: 26' (8 m)

Certified Test Report: Independent Testing Laboratories Inc. No. ITL 36898



Efficiency: 76.3% SC = 1.6

Angle	Mean CP	Lumens
0	8418	
4	8331	601
8	8149	1742
12	8127	2839
16	8200	4024
20	8605	5091
25	8684	5711
30	8178	4977
35	7882	2682
40	785	678
45	191	719
50	127	117
55	11	20
60	0	0
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

Beam	Lumens	% Lumens	% Fixture
0-30	8181	14.40	18.90
0-40	8207	25.80	33.50
0-50	1951	54.30	71.20
0-60	26979	74.90	84.20
0-70	315	1.30	1.76
0-80	419	1.40	1.95
0-90	438	1.40	1.90
0-100	419	1.40	1.90
0-180	27468	76.30	100.00

Angle	Average (fL)
45	25306
60	26211
75	24503
90	17755
65	6282

Coefficients of Utilization

Effective Floor Cavity Reflectance = .20

CC	60				70				80				90				10				
	70	80	90	10	70	80	90	10	70	80	90	10	70	80	90	10	70	80	90	10	
0	0.81	0.81	0.81	0.81	0.88	0.88	0.88	0.88	0.84	0.84	0.84	0.80	0.80	0.80	0.77	0.77	0.77				
1	0.82	0.79	0.75	0.72	0.89	0.77	0.74	0.71	0.79	0.71	0.68	0.70	0.66	0.66	0.67	0.65	0.64				
2	0.78	0.68	0.63	0.59	0.73	0.67	0.62	0.58	0.64	0.60	0.58	0.61	0.58	0.55	0.59	0.58	0.53				
3	0.68	0.59	0.53	0.48	0.68	0.58	0.52	0.47	0.56	0.50	0.48	0.53	0.49	0.45	0.51	0.47	0.44				
4	0.62	0.52	0.45	0.40	0.60	0.51	0.43	0.40	0.49	0.43	0.39	0.47	0.42	0.38	0.45	0.41	0.38				
5	0.58	0.46	0.39	0.33	0.54	0.45	0.38	0.33	0.43	0.37	0.32	0.41	0.36	0.32	0.40	0.35	0.31				
6	0.51	0.40	0.33	0.28	0.49	0.39	0.33	0.28	0.38	0.32	0.27	0.38	0.31	0.27	0.38	0.30	0.27				
7	0.46	0.35	0.28	0.23	0.45	0.35	0.29	0.23	0.33	0.27	0.23	0.32	0.27	0.23	0.31	0.26	0.22				
8	0.43	0.32	0.25	0.20	0.41	0.31	0.25	0.20	0.30	0.24	0.20	0.29	0.24	0.20	0.28	0.23	0.19				
9	0.38	0.28	0.22	0.17	0.38	0.28	0.22	0.17	0.27	0.21	0.17	0.26	0.21	0.17	0.25	0.20	0.17				
10	0.38	0.28	0.19	0.15	0.35	0.25	0.19	0.15	0.24	0.19	0.15	0.24	0.18	0.15	0.23	0.18	0.14				

Type HPA—Rudd IPC1625-MV Wet location, polycarb lens

Type HPQ--- Rudd IPC1625-MVQ Wet location, polycarb lens



Compact IC SERIES

Submitted by The Schneider Company

Catalog Number:
ST824-232G-FSA12125-EU-PAF

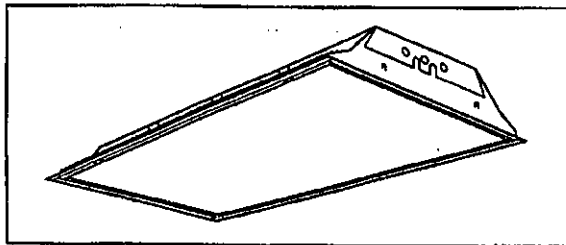
Type:
TC



Job Name:
NATION FORD HIGH SCHOOL STADIUM -
478445
Architect: McMILLAN SMITH & PARTNERS -
SPARTANBURG

Notes:

TSC08-10143



ST824-232

SPECIFICATION GRADE

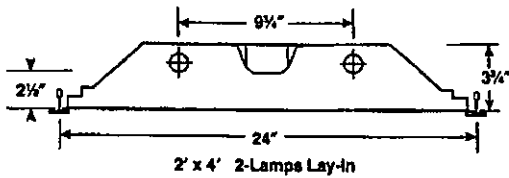
T8 TROFFER

2' x 4', 2 T8 Lamps

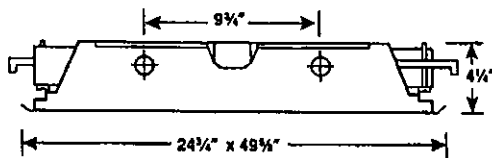
Type: _____

Job Description: _____

Cross Section

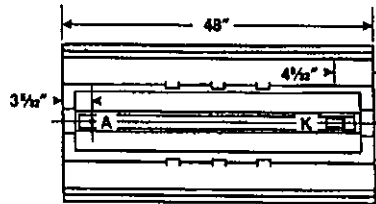


2' x 4' 2-Lamps Lay-In



2' x 4' 2-Lamps Flanged

Flanged cut out dimensions
for single unit only: 24" x 48 1/4"



A - 1/4" Diameter Knockout
K - 2" x 3" through hole for access plate.
NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

Features

- Optical performance designed for T8 lamp technology.
- 2 1/4" minimum spacing from bottom of lamp to bottom of lens.
- Mechanical light seal.
- Attractive, post-painted door frame with positive action latches.
- Spring loaded latches optional.
- Rolled fixture edges reduce risk of injury during fixture handling and installation.
- Integral T-bar clips quickly secure fixture to grid system without the need for time-consuming loose parts.
- Snap-in ballast covers can be removed when lamps are installed.
- Corner hinging for easy insertion and removal of door frame from either side.
- Optional flush or regressed aluminum shielding frames available with positive action or spring loaded latches.
- Housing ends secured by unique corner interlock and screws.

Housing

Heavy gauge steel. Die formed for extra rigidity. Grid housings are designed for installation in standard 1 1/4" T-bar ceilings. Integral T-bar clips are located in the end of the housing. Flanged housings for hard ceilings feature overlap flange trim and wing hangers.

Ballasts

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, CBM, sound rated A, magnetic or electronic ballasts.

Finish

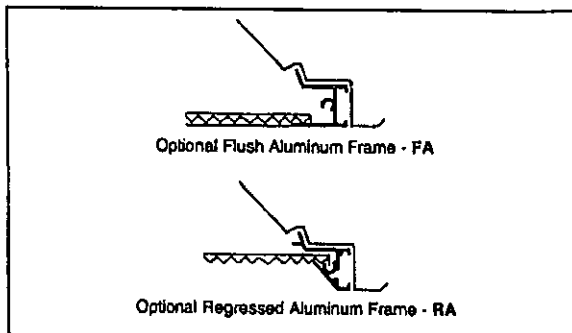
All parts pre-painted with high gloss baked white enamel, minimum reflectance 86%, applied over iron phosphate pre-treatment for maximum adhesion and rust resistance.

Shielding

100% clear prismatic acrylic, extruded and roll-embossed, diagonally oriented female prisms, unless otherwise specified.

Labels

All fixtures carry the UL label. (CSA approval available. Use Suffix "CSA").



Complete ordering information on back. Dimensions and specifications subject to change without notice.



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T8

Submitted by The Schneider Company

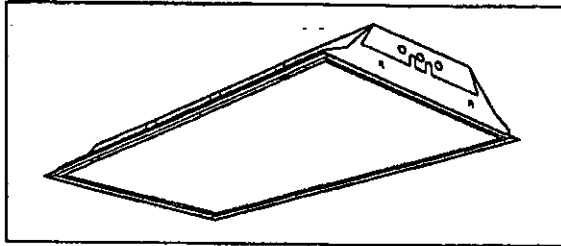


Job Name:
NATION FORD HIGH SCHOOL STADIUM -
478445
Architect: McMILLAN SMITH & PARTNERS -
SPARTANBURG

Catalog Number:
ST824-232G-FSA12125-EU-PAF-
EL14
Notes:

Type:
TCE

TSC08-10143



ST824-232

SPECIFICATION GRADE

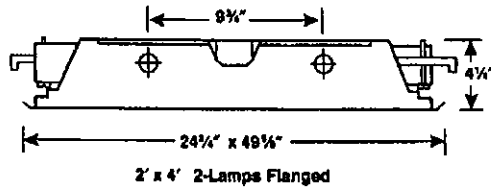
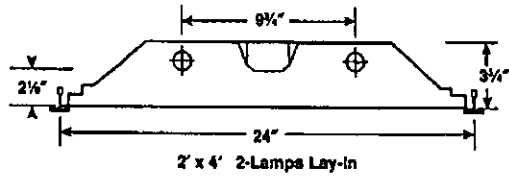
T8 TROFFER

2' x 4', 2 T8 Lamps

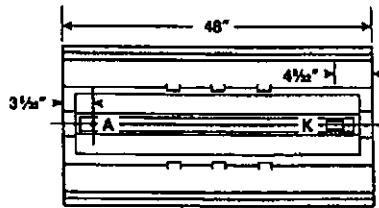
Type: _____

Job Description: _____

Cross Section



**Flanged cut out dimensions
for single unit only: 24" x 48 7/8"**



A - 7/8" Diameter Knockout

K - 2" x 3" through hole for access plate.

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

Features

- Optical performance designed for T8 lamp technology.
- 2 1/4" minimum spacing from bottom of lamp to bottom of lens.
- Mechanical light seal.
- Attractive, post-painted door frame with positive action latches.
- Spring loaded latches optional.
- Rolled fixture edges reduce risk of injury during fixture handling and installation.
- Integral T-bar clips quickly secure fixture to grid system without the need for time-consuming loose parts.
- Snap-in ballast covers can be removed when lamps are installed.
- Corner hinging for easy insertion and removal of door frame from either side.
- Optional flush or regressed aluminum shielding frames available with positive action or spring loaded latches.
- Housing ends secured by unique corner interlock and screws.

Housing

Heavy gauge steel. Die formed for extra rigidity. Grid housings are designed for installation in standard 1 3/4" T-bar ceilings. Integral T-bar clips are located in the end of the housing. Flanged housings for hard ceilings feature overlap flange trim and wing hangers.

Ballasts

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, CBM, sound rated A, magnetic or electronic ballasts.

Finish

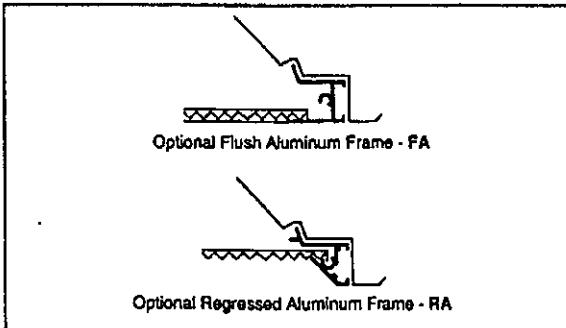
All parts pre-painted with high gloss baked white enamel, minimum reflectance 86%, applied over iron phosphate pre-treatment for maximum adhesion and rust resistance.

Shielding

100% clear prismatic acrylic, extruded and roll-embossed, diagonally oriented female prisms, unless otherwise specified.

Labels

All fixtures carry the UL label. (CSA approval available. Use Suffix "CSA").



Complete ordering information on back. Dimensions and specifications subject to change without notice.



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Columbia
LIGHTING

T6



Job Name:
NATION FORD HIGH SCHOOL STADIUM -
478445
Architect: McMillan Smith & Partners -
SPARTANBURG

Catalog Number:
ST824-232G-FSA12125-EU-PAF-
EL14
Notes:

Type:
TCE
TSC08-10143

ST824-232

2' x 4', 2 T8 Lamps

SPECIFICATION GRADE TROFFER

Columbia
Environmental Laboratories

REPORT # 17042
DATE: 7/27/00

LUMINAIRE: ST824-232G-FSA12-EB8-PAF
3' x 4' x 2" DOWN WITH 2 T8 LAMP
MOUNTED ON 1" DEEP LUMINAIRE HANGERS
LUMINAIRE AREA: 24.0 sq. ft.
LAMP AREA: 12.0 sq. ft.

COEFFICIENTS OF UTILIZATION

RC	80				70				50			
	70	50	30	10	70	50	30	10	50	30	10	0
1	94	81	68	85	92	89	88	83	85	83	81	75
2	87	81	76	72	85	79	75	71	76	73	69	65
3	80	73	68	61	78	71	68	61	69	64	60	57
4	74	65	58	53	72	64	58	53	62	56	52	49
5	68	58	51	46	68	57	50	46	55	50	45	43
6	63	52	45	40	61	52	45	40	50	44	40	37
7	58	47	40	35	57	47	40	35	45	39	35	33
8	54	42	35	31	52	42	35	30	41	35	30	28
9	49	38	31	26	48	38	31	26	37	31	26	24
10	46	35	28	23	45	34	28	23	33	27	23	22

Energy Data

LER: FL-76 Energy Cost: \$3.16'
Input Watts: 58 BF: .68

The above energy calculations were conducted using a specific lamp/ballast combination. Actual results may vary depending upon the lamp and ballast used. Lamp and ballast specifications are subject to change without notice.

*Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0.06 per KWH.

ST824-232G-FSA12-EB8-PAF

Report No: 12583 Efficiency: 85.6 S/MH: Part 1.23 Norm 1.18

Zonal Cavity Method Coefficients of Utilization Floor Reflectance - 20

RC	80				70				50			
	70	50	30	10	70	50	30	10	50	30	10	0
1	94	81	68	85	92	89	88	83	85	83	81	75
2	87	81	76	72	85	79	75	71	76	73	69	65
3	80	73	68	61	78	71	68	61	69	64	60	57
4	74	65	58	53	72	64	58	53	62	56	52	49
5	68	58	51	46	68	57	50	46	55	50	45	43
6	63	52	45	40	61	52	45	40	50	44	40	37
7	58	47	40	35	57	47	40	35	45	39	35	33
8	54	42	35	31	52	42	35	30	41	35	30	28
9	49	38	31	26	48	38	31	26	37	31	26	24
10	46	35	28	23	45	34	28	23	33	27	23	22

Zonal Summary

Zone	Lumens	Lamp	Flxt.
0-30	1562	28.9	31.5
0-40	2558	44.1	51.5
0-60	4228	72.9	85.1
0-90	4965	85.8	100.0
90-180	0	0.0	0.0
0-180	4965	85.8	100.0

Ordering Information

Example: ST824-232G-FSA12-EU-F0735-C388

Series
ST8

Fixture Size
24 - 2' x 4'

No. of Lamps
2 - Two

Lamp Type
32 - 4', T8, 32 Watt

Ceiling Type
Q - Inverted T-bar

Door Style
FS - Flush Steel

Voltage
120 - 120V
277 - 277V
347 - 347V
U - 120V-277V

Options
SLL - Spring Loaded Latch
GMF - Slow Blow Fuse
GLR - Fast Blow Fuse
C388 - 1/2" Flex with 3 No. 18 Wires
C384 - 1/2" Flex with 3 No. 14 Wires
C488 - 1/2" Flex with 4 No. 18 Wires
C424 - 1/2" Flex with 4 No. 14 Wires
F0730 - T8, 70CRI, 3000K Lamps, Furnished/Installed
F0735 - T8, 70CRI, 3500K Lamps, Furnished/Installed
F0741 - T8, 70CRI, 4100K Lamps, Furnished/Installed
CSA - UL listed or CSA certified for Canada
EI - Emergency Battery Pack
PAF - Painted After Fabrication

Ballast
E - Electronic T8, Instant Start
For a specific ballast/voltage, show as option.

EL14 - EMERGENCY BATTERY PACK

Shielding
A12 - Pattern 12 Acrylic, 100" Nominal (Standard)
A12.125 - Pattern 12 Acrylic, 125" Nominal
A12.125M - Pattern 12 Acrylic, 125" Minimum
A19 - Pattern 19 Acrylic, 156" Male Prism
IMA - .150 Injection Molded Acrylic, .156" Male Prism
DOP - White Dished Acrylic
PC1 - Silver Parabolic Louver 1/2" x 1/2" x 1/2"
PCG1 - Gold Parabolic Louver 1/2" x 1/2" x 1/2"
PC2 - Silver Parabolic Louver 1 1/2" x 1 1/2" x 1"
PCG2 - Gold Parabolic Louver 1 1/2" x 1 1/2" x 1"
For complete list of lenses and louvers, see options and accessories section.

T8

CO 0707





FEATURES & SPECIFICATIONS

INTENDED USE - Architectural deep-cast luminaire provides general illumination for exterior or interior applications. Ideal for rough service (vandal resistant) applications where safety and security are a concern.

ATTRIBUTES - Designed to complement building architecture and to endure extreme environmental conditions and physical abuse.

CONSTRUCTION - Bazel - One-piece, marine grade die-cast aluminum, low copper alloy (<1% copper), 1/25 inch thick. Encloses lens and secures to housing with stainless steel Torx® T10 set screws (two included) or optional stainless steel tamper-resistant screws (see Options).

Housing - One-piece marine grade die-cast aluminum, low copper alloy (<1% copper), with post-painted polyester powder coat finish. Four-hole mounting detail for use directly over outlet box, or conduit entry through three 1/2 inch threaded openings on side, or 3/4 inch threaded opening on rear surface of housing.

Gasket - Perimeter lens gasket is a one-piece silicone "O" ring. Pad mounting gasket is closed-cell neoprene that seals housing to mounting surface. Gaskets help cushion impact shock.

Glass - Perimeter lens gasket is closed-cell silicone.

FINISH - Standard finish is textured polyester powder coat in white, black or bronze. Optional architectural colors available (see Options).

OPTICAL SYSTEM - Lens-polycarbonate - Translucent white, injection molded, UV stabilized lens is .125 inch thick. Smooth exterior allows for easy cleaning, and interior pattern diffuses light for even surface illumination.

Lens-glass - Tempered borosilicate lens, .250 inch thick, has smooth exterior for easy cleaning and textured interior.

Reflector - Internal reflector is semi-specular aluminum, with high-reflectance white powder coat perimeter for maximum light output. Lamp positioning assures uniform brightness and illumination.

ELECTRICAL SYSTEM - Ballast - Class P, Electronic, High Power Factor multi-volt with starting temperature of -5°F (-20°C).

Socket - High-temperature thermoplastic with lamp retention clip.

Lamp - 35K lamp(s) included unless specified I/LP.

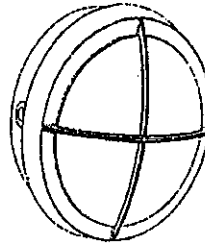
INSTALLATION

Unit may be ceiling or wall mounted.

LISTING

UL listed to US and Canadian standards (See Options). UL listed for 25°C ambient and wet locations. IP65 rated.

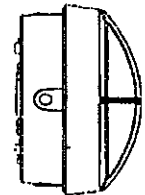
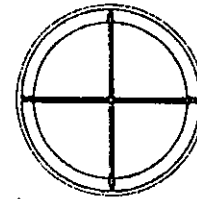
Catalog Number	
Notes	Type WSE



VGR4C

COMPACT FLUORESCENT
Round Single Grille
Deep Housing
Ceiling/Wall Mounted

GATEWAY



13.7" (34.8)

7.0" (17.8)

All dimensions are inches (centimeters).

Specifications subject to change without notice.

ORDERING INFORMATION

Order accessories as separate catalog number.

Example: VGR4C 2/42TRT MVOLT DWHG VGRDS LPI

VGR4C		42TRT		MVOLT		DBLB		ELDW		LP1	
Series	Wattage	Lens	Voltage	Paint Finishes ²	Options	Lamp ¹⁴					
VGR4C	13DTT One 13W double twin-tube lamp	(blank) Polycarbonate	120	Standard Textured Colors:	Shipped installed in fixture	LPI Lamp(s) included (standard)					
	2/13DTT Two 13W double twin-tube lamps	GL Borosilicate glass	277	DWHG White	ADEZ Advance Mark X electronic dimming ballast ⁹	L/P Less lamp(s)					
	18DTT One 18W double twin-tube lamp		347	DELB Black	OMFL Lutron Hi-Lume electronic dimming ballast ¹⁰						
	2/18DTT Two 18W double twin-tube lamps		MVOLT ¹¹	DDBT Dark Bronze	OS Dual Switching						
	26DTT One 26W double twin-tube lamp			DNAT Natural Aluminum	EC Emergency circuit (Incandescent -25W Max. - DC Bayonet base) ⁸						
	2/26DTT Two 26W double twin-tube lamps			DSST Sandstone	ELDW Emergency Lighting ^{12,13}						
	26TRT One 26W triple-tube lamp			Optional Textured Colors:	GLR Internal fast-blow fusing ⁹						
	2/26TRT Two 26W triple-tube lamps			DBNH Bronze	GMF Internal slow-blow fusing ⁹						
	32TRT One 32W triple-tube lamp			DSPD Dark Gray	NL Night-light (Incandescent - 7W Max. - Candelabra base) ^{14,15}						
	2/32TRT Two 32W triple-tube lamps			DSPE Green	PE Photoelectric cell ⁹						
	42TRT One 42W triple-tube lamp			DSPF Rust	TRS Tamper-resistant screws ¹¹						
	2/42TRT Two 42W triple-tube lamps			DSPG Dark Red	VGRDS Decorative shroud ¹⁵						
				DSPH Light Red	CSA Listed and labeled to comply with Canadian standards						
				DSPJ Light Gray							

Accessories

Order as separate catalog numbers.

RK1 T10DRV	Torx TX10 screwdriver, for use with Gateway set screws.
RK1 T20BIT	Hex-base driver bit, Torx TX20, for tamper-resistant screws with center reject pin.
RK1 T20DRV	Torx TX20 screwdriver for use with tamper-resistant screws with center reject pin.
VGRDSXXXX	Decorative shroud ¹⁵

NOTES:

- Multi-volt electronic ballast (for DTT and TRT lamps) capable of operating on any line voltage between 120 and 277 volt.
- For additional paint colors, refer to Architectural Paint brochure.
- Available with 26DTT and all single TRT lamps.
- Available with 26DTT, 26TRT and 32TRT.
- Maximum wattage lamp provided.
- 42TRT maximum voltage.
- Not available with CSA certification.
- Minimum operating temperature is 32°F (0°C).
- Must specify voltage. Not available with MVOLT.
- Option available for single lamp units only.
- 120V only.
- T-20 screws with center reject pin.
- Color will be the same as the bezel.
- Lamp included unless L/P is specified.
- Must specify color (Example: VGRDS DWHG).

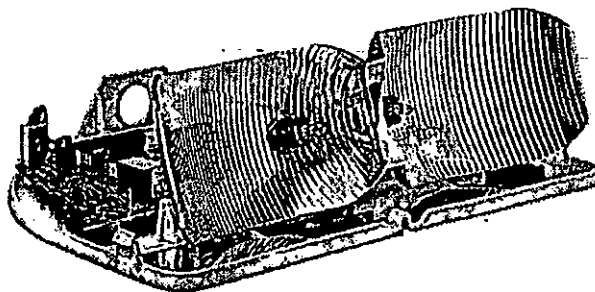
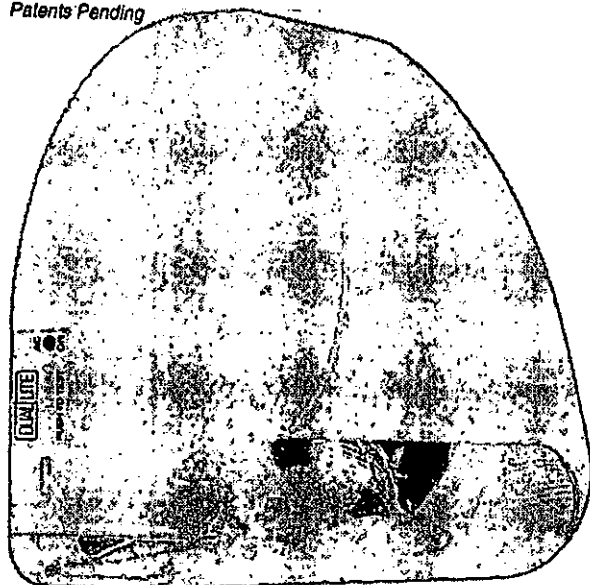
DUAL LITE

LiteScape™ Series

Decorative, low profile emergency lighting unit designed for fast, easy installation.

Fixture Type: _____

Patents Pending



Patented reflector design produces bright, evenly illuminated "SurePath™" egress lighting pattern

Product Selector

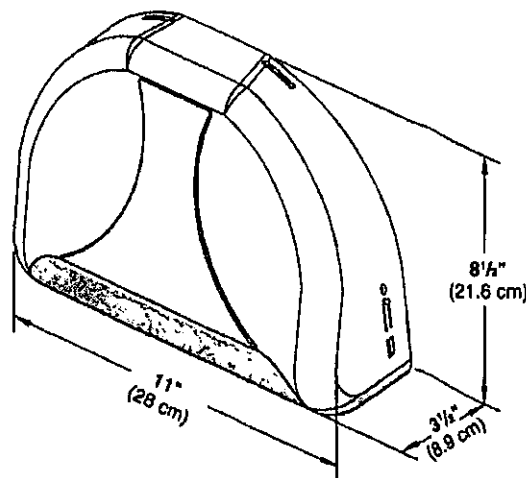
Fixture Type	Model No.	Description
	LSC	Lead-acid battery model
EM	LSCN	Nickel-Cadmium battery model
	LSCI	Self-testing/self-diagnostic lead-acid battery model
	LSCNI	Self-testing/self-diagnostic nickel-cadmium battery model
(v)	Options (add suffix to model)	
	-24K	220/240VAC, 60Hz. operation
	-AA	Audible alarm ⁽¹⁾

(1) For use with LSCI and LSCNI self-testing/self-diagnostic models only.

Features

- Factory guaranteed NFPA-101 code-compliant illumination
- Design allows field adjustable 3 ft. x 40 ft. or 6 ft. x 30 ft. egress illumination patterns
- Unique SurePath® technology delivers bright, continuous illumination over egress pathway
- Contemporary styling with low-profile silhouette
- Designed for fast, easy installation
- High-output, 6 volt, 10-watt halogen lamps
- Unit housing, lens and reflector completely constructed of high-temperature, impact resistant, UV stable polycarbonate
- Unit housing is paintable
- Choice of maintenance-free, lead-acid or nickel-cadmium battery models
- Universal 120/277VAC operation
- Fully automatic charger
- AC lockout
- Low-voltage battery disconnect
- Test switch and AC-On LED indicator
- Temperature range:
 - Lead-acid models = 20°C to 30°C (68°F to 86°F)
 - Nickel-Cadmium models = 0°C to 40°C (32°F to 104°F)
- UL 924 Listed (Emergency Lighting)
- UL Damp Location Listed (Nickel-Cadmium models only)

Dimensions



Hubbell Lighting, Inc.



Spectra Panelboard

Item 3 MPS

Panel Description

GE Type SBO Panelboard
 Qty 1
 800 Amp, 480Y/277V
 3P4W
 22 KAIC SC Fully Rated
 Copper Bus
 Nema 1 Enclosure
 Surface Mounted
 Bottom Feed

Main Description

Amps: 800 Amp
 Poles: 3 Pole
 Type: Main Breaker
 Cat No.: SKHA38AT0800+
 Acc: SRPK800A800
 Rating Plg
 3TCAL125
 Lug Kit
 Lugs: 1-lug/ph 3-cable/lug
 250 mm-500 mm

Options

- 1 - Copper Bus Heat Rated
- 1 - Grnd-Box bonded AEG10

Branch Devices

Qty	Amps/P	Cat#
1	100A/3P	Spaces
1	60A/3P	SEHA38AT0060+
1	Rating Plg	SRPE60A60
1	Lug Kit	3TCAL18
7	225A/3P	Spaces
1	225A/3P	SFHA38AT0250+
1	Rating Plg	SRPF250A225
1	Lug Kit	3TCAL29
4	125A/3P	FEN34AAD125R+
4	Rating Plg	FERP3G0125
4	Lug Kit	2FCALK15

Panel Interior

1-X FILLER					
Ckt	Type	Amps/P	Type	Amps/P	Ckt
1	SPACE	100/3	88HA8	60/3	2
-	-	-	-	-	-
3	SPACE	225/3	SPACE	225/3	4
-	-	-	-	-	-
5	SPACE	225/3	SPACE	225/3	6
-	-	-	-	-	-
7	SPACE	225/3	SPACE	225/3	8
-	-	-	-	-	-
9	SFHA	225/3	SPACE	225/3	10
-	-	-	-	-	-
11	FEN125E	125/3	FEN125E	125/3	12
-	-	-	-	-	-
13	FEN125E	125/3	FEN125E	125/3	14
-	-	-	-	-	-
-	-	-	-	-	-
800A 3P SKHA8					

* Drawing not to scale

Job Name:	NATIONS FORD STADIUM	
Prop No:	6F3-8070	GE Req#:
PO#:		
Marks:	MPS	Dated: 10/16/2009

3A Interior	APNB2808FH2A
3B Box	APB4075
3C Front	APFT7528M
Dimensions	75.5"H x 40"W x 11.5"D

g A Series Panelboard

Item 4 HA

Panel Description

GE Type AE Panelboard
 Qty 1
 125 Amp, 480Y/277V
 3P4W
 14 KAIC SC Fully Rated
 Copper Bus
 Nema 1 Enclosure
 Surface Mounted
 Bottom Feed

Branch Devices

Qty	Amps/P	Cat#
20	20A/1P	TEY120
12	20A/1P	Spaces
10	30A/1P	TEY130

Panel Interior

125A PANEL END FILLER					
Ckt	Type	Amps/P	Type	Amps/P	Ckt
1	TEY	30/1	TEY	30/1	2
3	TEY	30/1	TEY	30/1	4
5	TEY	30/1	TEY	30/1	6
7	TEY	30/1	TEY	30/1	8
9	TEY	30/1	TEY	30/1	10
11	TEY	20/1	TEY	20/1	12
13	TEY	20/1	TEY	20/1	14
15	TEY	20/1	TEY	20/1	16
17	TEY	20/1	TEY	20/1	18
19	TEY	20/1	TEY	20/1	20
21	TEY	20/1	TEY	20/1	22
23	TEY	20/1	TEY	20/1	24
25	TEY	20/1	TEY	20/1	26
27	TEY	20/1	TEY	20/1	28
29	TEY	20/1	TEY	20/1	30
31	SPACE	20/1	SPACE	20/1	32
33	SPACE	20/1	SPACE	20/1	34
35	SPACE	20/1	SPACE	20/1	38
37	SPACE	20/1	SPACE	20/1	38
39	SPACE	20/1	SPACE	20/1	40
41	SPACE	20/1	SPACE	20/1	42
125A MAIN LUGS WITH NEUTRAL					

* Drawing not to scale

Main Description

Amps: 125 Amp
 Type: Main Lugs
 Lugs: 1-lug/ph 1-cable/lug
 #14 -2/0

Options

- 1 - Copper Bus Heat Rated
- 3 - Ground-Box bonded TGL2

Job Name: NATIONS FORD STADIUM	
Prop No: 6F3-8070	GE Req#:
PO#:	
Marks: HA	Dated: 10/16/2009

4A Interior	AEF3421MBX AXB7
4B Box	AB37B
4C Front	AF37S
Dimensions	37.5"H x 20"W x 5.75"D

g A Series Panelboard

Item 5 H1

Panel Description

GE Type AQ Panelboard
Qty 1
600 Amp, 208Y/120V
3P4W
10 KAIC SC Fully Rated
Copper Bus
Nema 1 Enclosure
Surface Mounted
Bottom Feed

Branch Devices

Qty	Amps/P	Cat#
15	20A/1P	THQB1120
3	20A/1P	Spaces
6	20A/2P	THQB2120
1	20A/3P	THQB32020
1	50A/3P	THQB32050
1	225A/3P	TQD32225
1	175A/3P	TQD32175

Panel Interior

600A NEUTRAL ONLY					
Ckt	Type	Amps/P	Type	Amps/P	Ckt
1	THQB	50/3	THQB	20/3	2
-	-	-	-	-	-
-	-	-	-	-	-
3	THQB	20/2	THQB	20/2	4
-	-	-	-	-	-
5	THQB	20/2	THQB	20/2	6
-	-	-	-	-	-
7	THQB	20/2	THQB	20/2	8
-	-	-	-	-	-
9	THQB	20/1	THQB	20/1	10
11	THQB	20/1	THQB	20/1	12
13	THQB	20/1	THQB	20/1	14
15	THQB	20/1	THQB	20/1	16
17	THQB	20/1	THQB	20/1	18
19	THQB	20/1	THQB	20/1	20
21	THQB	20/1	THQB	20/1	22
23	THQB	20/1	SPACE	20/1	24
25	SPACE	20/1	SPACE	20/1	26
	TQD	225/3	CENTER MOUNTED		
	SUBFEED				
	TQD	175/3	CENTER MOUNTED		
	SUBFEED				
VERTICAL MAIN BREAKER					
600A 3P SGHA6					

* Drawing not to scale

Main Description

Amps: 600 Amp
Poles: 3 Pole
Type: Main Breaker
Cat No.: SGHA36AT0600+
Acc: SRPG600A600
Rating Plg
1TCLK365
Lug Kit
Lugs: 1-lug/ph 2-cable/lug
2/0 -500 mcm
or
1-lug/ph 1-cable/lug
#8 -600 mcm

Options

- 1 - Copper Bus Heat Rated
- 2 - Ground main lug TGL20
- 3 - Ground-Box bonded TGL2

Job Name:	NATIONS FORD STADIUM		
Prop No:	6F3-8070	GE Req#:	
PO#:			
Marks:	H1	Dated:	10/16/2009

5A Interior	AQF3366JBX AXQ6B7
5B Box	AB76B
5C Front	AF76S
Dimensions	76.5"H x 20"W x 5.75"D

g A Series Panelboard

Item 6 H2

Panel Description

GE Type AQ Panelboard
 Qty 1
 225 Amp, 208Y/120V
 3P4W
 10 KAIC SC Fully Rated
 Copper Bus
 Nema 1 Enclosure
 Surface Mounted
 Bottom Feed

Branch Devices

Qty	Amps/P	Cat#
27	20A/1P	THQB1120
6	20A/1P	Spaces
1	30A/1P	THQB1130
1	20A/2P	THQB2120
1	20A/3P	THQB32020
1	50A/3P	THQB32050

Panel Interior

225A PANEL END FILLER					
Ckt	Type	Amps/P	Type	Amps/P	Ckt
1	THQB	50/3	THQB	20/3	2
	-	-	-	-	
	-	-	-	-	
3	THQB	20/2	THQB	30/1	4
	-	-	THQB	20/1	5
6	THQB	20/1	THQB	20/1	7
8	THQB	20/1	THQB	20/1	9
10	THQB	20/1	THQB	20/1	11
12	THQB	20/1	THQB	20/1	13
14	THQB	20/1	THQB	20/1	15
16	THQB	20/1	THQB	20/1	17
18	THQB	20/1	THQB	20/1	19
20	THQB	20/1	THQB	20/1	21
22	THQB	20/1	THQB	20/1	23
24	THQB	20/1	THQB	20/1	25
26	THQB	20/1	THQB	20/1	27
28	THQB	20/1	THQB	20/1	29
30	THQB	20/1	THQB	20/1	31
32	SPACE	20/1	SPACE	20/1	33
34	SPACE	20/1	SPACE	20/1	35
36	SPACE	20/1	SPACE	20/1	37
175A 3P TQD MAIN					
225A NEUTRAL ONLY					

* Drawing not to scale

Main Description

Amps: 175 Amp
 Poles: 3 Pole
 Type: Main Breaker
 Cat No.: TQD32175
 Acc:
 Lugs: 1-lug/ph 1-cable/lug
 #1 -300 mcm

Options

- 1 - Copper Bus Heat Rated
- 3 - Ground-Box bonded TGL2

Job Name: NATIONS FORD STADIUM	
Prop No: 6F3-8070	GE Req#:
PO#:	
Marks: H2	Dated: 10/16/2009

6A Interior	AQF3422ABX AXB7
6B Box	AB43B
6C Front	AF43S
Dimensions	43.5"H x 20"W x 5.75"D

g A Series Panelboard

Item 7 H3

Panel Description

GE Type AQ Panelboard
 Qty 1
 225 Amp, 208Y/120V
 3P4W
 10 KAIC SC Fully Rated
 Copper Bus
 Nema 1 Enclosure
 Surface Mounted
 Bottom Feed

Main Description

Amps: 225 Amp
 Poles: 3 Pole
 Type: Main Breaker
 Cat No.: TQD32225
 Acc:
 Lugs: 1-lug/ph 1-cable/lug
 #1 -300 mcm

Options

- 1 - Copper Bus Heat Rated
- 1 - Ground main lug TGL20
- 4 - Ground-Box bonded TGL2

Branch Devices

Qty	Amps/P	Cat#
29	20A/1P	THQB1120
5	20A/1P	Spaces
1	30A/1P	THQB1130
1	50A/3P	THQB32050
1	60A/3P	THQB32080ST1
1	ST 120 VAC	(Default)

Panel Interior

225A PANEL END FILLER					
Ckt	Type	Amps/P	Type	Amps/P	Ckt
1	THQB	60/3	THQB	50/3	2
	SHUNT TRIP	-	-	-	
	-	-	-	-	
	-	-	THQB	30/1	3
4	THQB	20/1	THQB	20/1	5
6	THQB	20/1	THQB	20/1	7
8	THQB	20/1	THQB	20/1	9
10	THQB	20/1	THQB	20/1	11
12	THQB	20/1	THQB	20/1	13
14	THQB	20/1	THQB	20/1	15
16	THQB	20/1	THQB	20/1	17
18	THQB	20/1	THQB	20/1	19
20	THQB	20/1	THQB	20/1	21
22	THQB	20/1	THQB	20/1	23
24	THQB	20/1	THQB	20/1	25
26	THQB	20/1	THQB	20/1	27
28	THQB	20/1	THQB	20/1	29
30	THQB	20/1	THQB	20/1	31
32	THQB	20/1	SPACE	20/1	33
34	SPACE	20/1	SPACE	20/1	35
36	SPACE	20/1	SPACE	20/1	37
225A 3P TQD MAIN					
225A NEUTRAL ONLY					

* Drawing not to scale

Job Name:	NATIONS FORD STADIUM		
Prop No:	6F3-8070	GE Req#:	
PO#:			
Marks:	H3	Dated:	10/16/2009

7A Interior	AQF3422ABX AXB7
7B Box	AB43B
7C Front	AF43S
Dimensions	43.5"H x 20"W x 5.75"D

g A Series Panelboard

Item 8 VCA

Panel Description

GE Type AQ Panelboard
 Qty 1
 400 Amp, 208Y/120V
 3P4W
 10 KAIC SC Fully Rated
 Copper Bus
 Nema 1 Enclosure
 Surface Mounted
 Bottom Feed

Branch Devices

Qty	Amps/P	Cat#
32	20A/1P	THQB1120
1	30A/1P	THQB1130
1	20A/3P	THQB32020
1	50A/3P	THQB32050
1	150A/3P	TQD32150

Panel Interior

400A PANEL END FILLER					
Ckt	Type	Amps/P	Type	Amps/P	Ckt
1	THQB	50/3	THQB	20/3	2
-	-	-	-	-	-
-	-	-	-	-	-
3	THQB	30/1	THQB	20/1	4
5	THQB	20/1	THQB	20/1	6
7	THQB	20/1	THQB	20/1	8
9	THQB	20/1	THQB	20/1	10
11	THQB	20/1	THQB	20/1	12
13	THQB	20/1	THQB	20/1	14
15	THQB	20/1	THQB	20/1	16
17	THQB	20/1	THQB	20/1	18
19	THQB	20/1	THQB	20/1	20
21	THQB	20/1	THQB	20/1	22
23	THQB	20/1	THQB	20/1	24
25	THQB	20/1	THQB	20/1	26
27	THQB	20/1	THQB	20/1	28
29	THQB	20/1	THQB	20/1	30
31	THQB	20/1	THQB	20/1	32
33	THQB	20/1	THQB	20/1	34
35	Spaces	-	THQB	20/1	36
37	Spaces	-	Spaces	-	38
TQD		150/3	CENTER MOUNTED		
SUBFEED					
300A 3P SGHA4					
MAIN					
400A VERTICAL MAIN BREAKER WITH NEUTRAL					

Main Description

Amps: 300 Amp
 Poles: 3 Pole
 Type: Main Breaker
 Cat No.: SGHA36AT0400+
 Acc: SRPG400A300
 Rating Plg
 1TCLK365
 Lug Kit
 Lugs: 1-lug/ph 2-cable/lug
 2/0 -500 mcm
 or
 1-lug/ph 1-cable/lug
 #8 -600 mcm

Options

- 1 - Copper Bus Heat Rated
- 1 - Ground main lug TGL20
- 4 - Ground-Box bonded TGL2

* Drawing not to scale

Job Name:	NATIONS FORD STADIUM		
Prop No:	6F3-8070	GE Req#:	
PO#:			
Marks:	VCA	Dated:	10/16/2009

8A Interior	AQF3424JBX AXQ3B7
8B Box	AB76B
8C Front	AF76S
Dimensions	76.5"H x 20"W x 5.75"D

g A Series Panelboard

Item 9 VCB

Panel Description

GE Type AQ Panelboard
 Qty 1
 225 Amp, 208Y/120V
 3P4W
 10 KAIC SC Fully Rated
 Copper Bus
 Nema 1 Enclosure
 Surface Mounted
 Bottom Feed

Branch Devices

Qty	Amps/P	Cat#
8	20A/1P	THQB1120
12	20A/1P	Spaces
2	15A/2P	THQB2115
6	20A/3P	THQB32020

Panel Interior

225A PANEL END FILLER					
Ckt	Type	Amps/P	Type	Amps/P	Ckt
1	THQB	20/3	THQB	20/3	2
	-	-	-	-	
	-	-	-	-	
3	THQB	20/3	THQB	20/3	4
	-	-	-	-	
	-	-	-	-	
5	THQB	20/3	THQB	20/3	6
	-	-	-	-	
	-	-	-	-	
7	THQB	15/2	THQB	15/2	8
	-	-	-	-	
9	THQB	20/1	THQB	20/1	10
11	THQB	20/1	THQB	20/1	12
13	THQB	20/1	THQB	20/1	14
15	THQB	20/1	THQB	20/1	16
17	SPACE	20/1	SPACE	20/1	18
19	SPACE	20/1	SPACE	20/1	20
21	SPACE	20/1	SPACE	20/1	22
23	SPACE	20/1	SPACE	20/1	24
25	SPACE	20/1	SPACE	20/1	26
27	SPACE	20/1	SPACE	20/1	28
225A MAIN LUGS WITH NEUTRAL					

* Drawing not to scale

Main Description

Amps: 225 Amp
 Type: Main Lugs
 Lugs: 1-lug/ph 1-cable/lug
 #6 -350 mcm

Options

- 1 - Copper Bus Heat Rated
- 1 - Ground main lug TGL20
- 4 - Ground-Box bonded TGL2

Job Name: NATIONS FORD STADIUM	
Prop No: 6F3-8070	GE Req#:
PO#:	
Marks: VCB	Dated: 10/16/2009

9A Interior	AQF3422MBX AXB7
9B Box	AB43B
9C Front	AF43S
Dimensions	43.5"H x 20"W x 5.75"D

g A Series Panelboard

Item 17 VF

Panel Description

GE Type AQ Panelboard
 Qty 1
 225 Amp, 208Y/120V
 3P4W
 10 KAIC SC Fully Rated
 Copper Bus
 Nema 1 Enclosure
 Surface Mounted
 Bottom Feed

Branch Devices

Qty	Amps/P	Cat#
33	20A/1P	THQB1120
1	35A/3P	THQB32035
1	45A/3P	THQB32045
1	70A/3P	THQB32070

Panel Interior

225A PANEL END FILLER					
Ckt	Type	Amps/P	Type	Amps/P	Ckt
1	THQB	70/3	THQB	45/3	2
	-	-	-	-	
	-	-	-	-	
3	THQB	35/3	THQB	20/1	4
	-	-	THQB	20/1	5
	-	-	THQB	20/1	6
7	THQB	20/1	THQB	20/1	8
9	THQB	20/1	THQB	20/1	10
11	THQB	20/1	THQB	20/1	12
13	THQB	20/1	THQB	20/1	14
15	THQB	20/1	THQB	20/1	16
17	THQB	20/1	THQB	20/1	18
19	THQB	20/1	THQB	20/1	20
21	THQB	20/1	THQB	20/1	22
23	THQB	20/1	THQB	20/1	24
25	THQB	20/1	THQB	20/1	26
27	THQB	20/1	THQB	20/1	28
29	THQB	20/1	THQB	20/1	30
31	THQB	20/1	THQB	20/1	32
33	THQB	20/1	THQB	20/1	34
35	THQB	20/1	THQB	20/1	36
225A 3P TQD MAIN					
225A NEUTRAL ONLY					

* Drawing not to scale

Main Description

Amps: 225 Amp
 Poles: 3 Pole
 Type: Main Breaker
 Cat No.: TQD32225
 Acc:
 Lugs: 1-lug/ph 1-cable/lug
 #1 -300 mcm

Options

- 1 - Copper Bus Heat Rated
- 1 - Ground main lug TGL20
- 4 - Ground-Box bonded TGL2

Job Name: NATIONS FORD STADIUM	
Prop No: 6F3-8070	GE Req#:
PO#:	
Marks: VF	Dated: 10/16/2009

17A Interior	AQF3422ABX AXB7
17B Box	AB43B
17C Front	AF43S
Dimensions	43.5"H x 20"W x 5.75"D

g A Series Panelboard

Item 18 HF

Panel Description

GE Type AQ Panelboard
 Qty 1
 225 Amp, 208Y/120V
 3P4W
 10 KAIC SC Fully Rated
 Copper Bus
 Nema 1 Enclosure
 Surface Mounted
 Bottom Feed

Branch Devices

Qty	Amps/P	Cat#
15	20A/1P	THQB1120
15	20A/1P	Spaces
1	35A/3P	THQB32035
1	45A/3P	THQB32045
1	60A/3P	THQB32060
1	70A/3P	THQB32070

Panel Interior

225A PANEL END FILLER					
Ckt	Type	Amps/P	Type	Amps/P	Ckt
1	THQB	70/3	THQB	60/3	2
	.	-	.	-	
	.	-	.	-	
3	THQB	45/3	THQB	35/3	4
	.	-	.	-	
	.	-	.	-	
5	THQB	20/1	THQB	20/1	6
7	THQB	20/1	THQB	20/1	8
9	THQB	20/1	THQB	20/1	10
11	THQB	20/1	THQB	20/1	12
13	THQB	20/1	THQB	20/1	14
15	THQB	20/1	THQB	20/1	16
17	THQB	20/1	THQB	20/1	18
19	THQB	20/1	SPACE	20/1	20
21	SPACE	20/1	SPACE	20/1	22
23	SPACE	20/1	SPACE	20/1	24
25	SPACE	20/1	SPACE	20/1	26
27	SPACE	20/1	SPACE	20/1	28
29	SPACE	20/1	SPACE	20/1	30
31	SPACE	20/1	SPACE	20/1	32
33	SPACE	20/1	SPACE	20/1	34
225A 3P TQD MAIN					
225A NEUTRAL ONLY					

* Drawing not to scale

Main Description

Amps: 225 Amp
 Poles: 3 Pole
 Type: Main Breaker
 Cat No.: TQD32225
 Acc:
 Lugs: 1-lug/ph 1-cable/lug
 #1 -300 mcm

Options

- 1 - Copper Bus Heat Rated
- 1 - Ground main lug TGL20
- 4 - Ground-Box bonded TGL2

Job Name: NATIONS FORD STADIUM	
Prop No: 6F3-8070	GE Req#:
PO#:	
Marks: HF	Dated: 10/16/2009

18A Interior	AQF3422ABX AXB7
18B Box	AB43B
18C Front	AF43S
Dimensions	43.5"H x 20"W x 5.75"D



Spec - Setter Safety Switches

Type TH Switches, Heavy Duty

- 30-1200 Amperes
- 240 Volts ac, 250 Volts dc Max.
- 480/600 Volts ac, 250 Volts dc
- 600 Volts dc

Type TH Interrupting and

Withstandability Ratings

Designed for applications where safety, high performance and continuity of service are essential.

*CSA Certified

*UL Listed (Enclosed Switches No.98)

*60°C and 75°C conductor ratings

*Quick-make, quick-break mechanisms

*Full cover interlocks

UL Listed Ratings for fusible switches when used with these fuses:

*Class J (200,000 rms amps, sym IC)

*Class R(200,000 rms amps, sym IC)

Type TG Switches, General Duty

30-600 Amperes

240 Volts ac, 250 Volts dc Max.

Cartridge fuse, Type TG Switches

*CSA Certified

*UL Listed (Enclosed Switch No.98)

*60°C and 75°C conductor rating

*Quick-make, quick-break mechanisms(30-200 amps)

6 Pole Switches

*UL Listed (Enclosed Switches No. 98)

*Drip hood included

*Horsepower rated

*Quick-make, quick-break

*Full cover interlocks

Type TC Indoor Double-throw Switches

*Designed for application where safety, high performance, and continuity of service are essential

*UL Listed (Enclosed Switches No.98). Suitable for use in accordance with Article 702 of the National Electrical Code

*Meet Federal Specification W-S-865C for enclosed switches; 30-200 amps, Type HD; 400-600 amps, Type LD

*Meet or exceed NEMA Enclosed Switch Standard KSI-1983 for Type HD 30-200 amps, Type GD 400-600 amps.

*60°C and 75°C conductor ratings.

*Quick-make, quick-break mechanisms 30-200 amps; quick break mechanisms 400-600 amps

*Meet Federal Specification WS-865C for heavy duty switches

*Meet major automotive manufacturer's and JIC electrical specifications

*Meet NEMA Enclosed Safety Switch Standard KSI-1983 for Type HD>

*Suitable for use as service entrance installed in accordance with the national electrical code.

*Class H (100,000 rms amps, sym IC) Standard on 30-600amps

*Class L (100,000 rms amps, sym IC) Standard on 800-1200amps

*Suitable for use as service entrance when installed in accordance with national electric code.

*Designed for residential or light commercial application where duty is not severe

*Meet or exceed NEMA enclosed switch standard KSI-1983 for Type GD.

*30-200 amp fusible switches are rated 100,000rms amps, sym IC when used with Class R fuses.

*Furnished without knockouts or hubs. Order hubs separately

*Single enclosure rated Type I, 3R and 12

*Equipment ground provided

*Suitable for four-pole applications

*60°C and 75°C conductor ratings

Dimensions—Knockouts

Sym- bol	A	B	C	D	E	F	G	H	J	K	L	M	N
Conduit Size (inches)	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2



Transformers

Typical Application Information

General Information

All QL and TransformMore™ dry-type transformers and components are designed, manufactured, and tested in accordance with the following standards:
ANSI/IEEE C57.96, Distribution and Power Transformers, Guide for Loading Dry-Type,
ANSI/IEEE C89.2 - Dry Type Transformers for General Applications,
ANSI/NFPA 70,
National Electrical Code,
IEEE C57.12.01,
IEEE C57.12.91, Test Code for Dry-Type Distribution and Power Transformers,
NEMA ST 20, Dry Type Transformers for General Applications,
UL 506, Specialty Transformers,
NEMA-TP-1-2002.

Type QB, QMS, and QMS3 encapsulated models are cUL listed.

Type QL, TransformMore™, QB, QMS, and IP transformers have been certified to the seismic requirements of IBC-2003 and IEEE-693-1997.

General-purpose transformers are rated 600 volts and below for supplying appliance, lighting, and power loads from electrical distribution systems. Standard distribution voltages are 600, 480, and 240 volts. Standard load voltages are 480, 240, 208, and 120 volts.

Construction

Types QB, QMS, QMS3

Core and coils are contained within a NEMA 3R non-ventilated weatherproof enclosure. Type QB, QMS, and QMS3 units feature encapsulated core and coils.

Type QL

QL dry-type transformers are enclosed in a NEMA 2 indoor, drip-proof metal enclosure with natural draft ventilation. The core-and-coil assembly is mounted on rubber isolation pads to reduce noise. Weathershield kits are available for conversion to a NEMA 3R enclosure suitable for outdoor protected installations.

Type TransformMore™

TransformMore™ transformers utilize fan-assisted convection cooling to deliver a smaller, quieter, and easier-to-install transformer. Fans are designed to assist with convection cooling at loads greater than 50% (most transformers operate at loads < 35%). TransformMore™ incorporates a thermally controlled three-phase disconnect (not circuit breaker) on the primary to protect from overheating. TransformMore™ dry-type transformers are enclosed in a NEMA 2 indoor, drip-proof enclosure. Weathershield kits are available for conversion to a NEMA 3R enclosure suitable for outdoor protected installations.

Voltage Tap Arrangement

Transformer taps compensate for high or low line voltages. Standard NEMA, ANSI three-phase taps are two 5% taps below normal on transformers smaller than 30KVA. This arrangement provides a 10% range of tap voltage adjustment. Most standard QL units rated 15 through 225KVA and most TransformMore™ units rated 150KVA through 1000KVA have six universal voltage taps - four 2.5% below normal and two 2.5 % above normal. This arrangement provides a 15% range of tap voltage adjustment. Some TransformMore™ units may have 2.0% taps.

Termination
Improved termination spacing and wiring compartment room give greater flexibility in selecting various UL listed connectors for either copper or aluminum cable. A listing of suitable connectors is packaged with each GE transformer.

Temperature Class
Industry standards classify insulation systems in accordance with the rating system shown below. All standard, general purpose GE transformers meet all applicable NEMA, ANSI, UL, and IEEE standards. The design life of transformers having different insulation systems is the same, since the allowable temperature rise of an insulation material system is predicated on a specified life for all insulation. The lower temperature rise systems are designed for the same life as higher temperature systems.

K-Factor Transformers
All GE type QL and Transformore™ K-factor transformers have been tested to and passed the UL K-factor testing program. These units shall not exceed rated winding temperature rise at full load and rated K-factor. Transformer neutrals are capable of handling 200% of rated secondary phase current. Full-width copper electrostatic shielding is standard on all GE K-factor rated transformers. Designed for commercial applications with significant non-linear electronic loading use K 4 for systems with 50% connected non-linear electronic loads, K 13 for systems with 100% connected non-linear electronic loads. Higher K-factor rated units are available for unique applications.

Sound Levels
All GE general purpose transformers are as quiet, or quieter than the ANSI and NEMA ST-20-1992 standard for sound levels. Transformore™ transformers are 2db below ANSI-C89 guidelines when convection cooled and 2db below ANSI-C89 2 when fan-cooled. Sound characteristics may vary between transformers of identical voltage and KVA rating. The range of variation may be 3 to 10 db higher than factory test lab values due to a variety of circumstances beyond the control of the transformer manufacturer. These circumstances may include but are not limited to:

- Higher than rated voltage applied to transformer windings. GE recommends measurement with a true RMS meter.
- Rubber isolation pad hardware not properly adjusted to allow for pad expansion.
- Shipping braces not removed.
- Transformer enclosure panels not properly tightened.
- Improper installation of conduit.
- Improper location of transformer.
- Mount the transformer as far as possible from corners, walls, and ceilings. Installing transformers near hard surfaces such as concrete walls will amplify the sound, requiring the use of sound absorbing materials.



Dry-Type Transformers

Item	Qty	Catalog #	Description	KVA	Dimensions (in inches)				Outline Drawing #	Label Drawing #
					W	H	D	WGT		
			QL-TP1 Transformer 3 Ph 150KVA Pri: 480(+2,-4 2.4%) Sec: 208Y/120 Vented 150C Rise,60HZ Impedance: ES Shield No	150	34.8	45.9	24	904	303B401AAP076	9T83B3876-LBL
10	1	9T83B3876	QL-TP1 Transformer 3 Ph 150KVA Pri: 480(+2,-4 2.4%) Sec: 208Y/120 Vented 150C Rise,60HZ Impedance: ES Shield No	150	34.8	45.9	24	904	303B401AAP076	9T83B3876-LBL
10	1	9T18Y7242G03	Lug Kit							

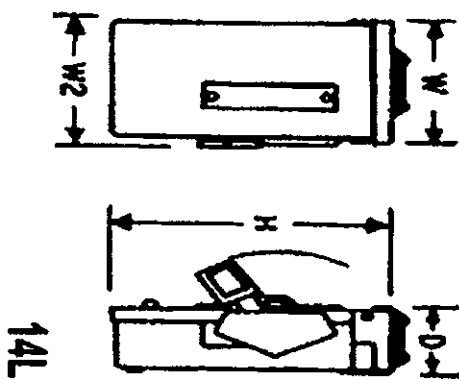
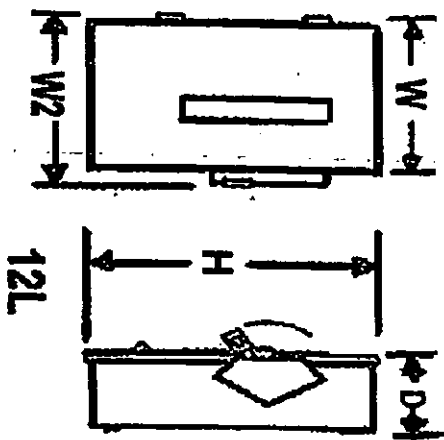


Dry-Type Transformers

Item	Qty	Catalog #	Description	kVA	Dimensions (in inches)				Outline Drawing #	Label Drawing #
					W	H	D	WGT		
11	1	9T83B3874	QL-TP1 Transformer 3 Ph 75KVA Pri: 480(+2,-4 2.4%) Sec: 208Y/120 Vented 150C Rise,60HZ Impedance: 6 ES Shield No	75	31.8	35.7	24	620	303B401AAP074	9T83B3874-LBL
11	1	9T18Y7241	Lug Kit							
19	2	9T83B3874	QL-TP1 Transformer 3 Ph 75KVA Pri: 480(+2,-4 2.4%) Sec: 208Y/120 Vented 150C Rise,60HZ Impedance: 6 ES Shield No	75	31.8	35.7	24	620	303B401AAP074	9T83B3874-LBL



Layout Drawings

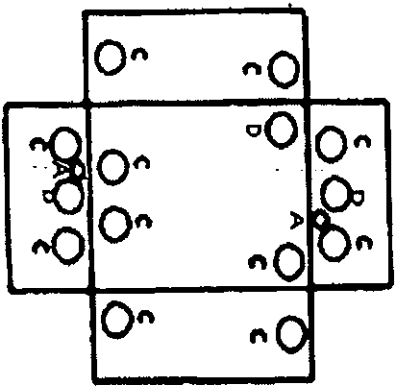


Drawings

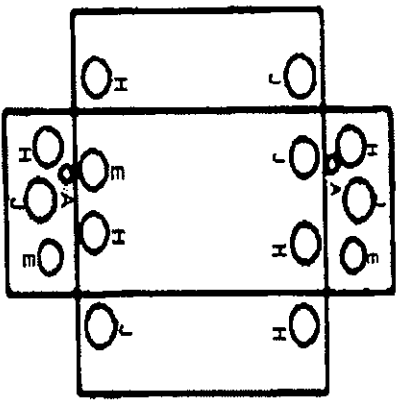


Drawings

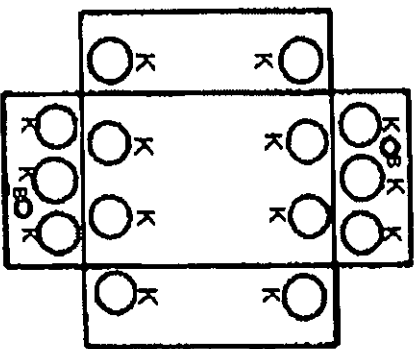
Knockout Drawings



13K



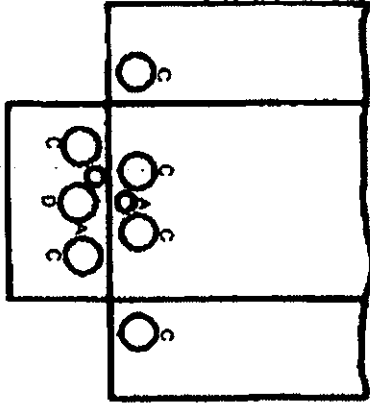
15K



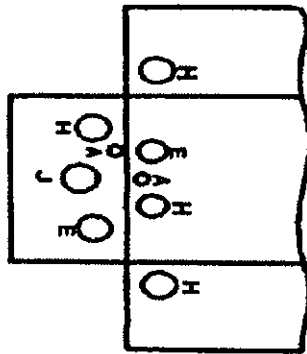
16K



Knockout Drawings



20K



22K

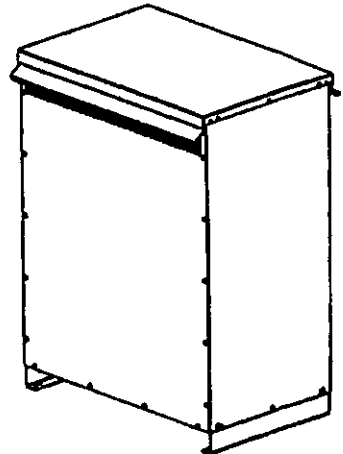
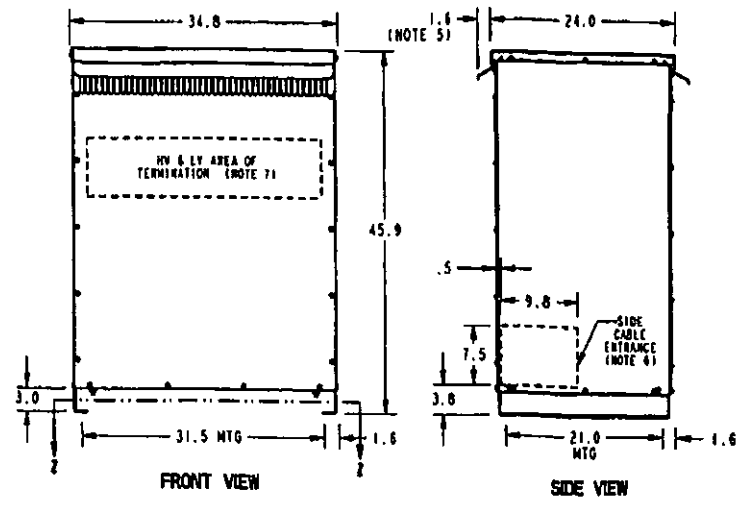
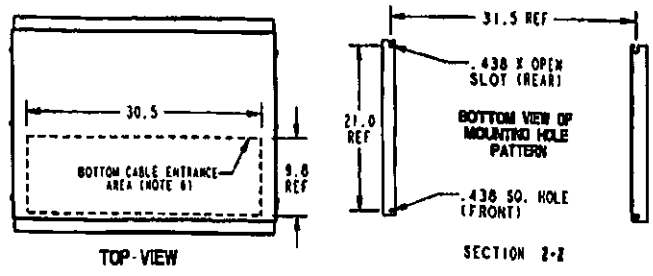
Drawings



GENERAL ELECTRIC DRY TYPE TRANSFORMERS

NOTES:

- 1) ALL UNITS ARE UL LISTED AND ARE DESIGNED IN ACCORDANCE WITH ANSI C89.2 AND NEMA ST-20 STANDARDS.
- 2) TRANSFORMERS UTILIZE A UL RECOGNIZED 220°C INSULATION SYSTEM THE TEMPERATURE RISE(S) FOR THE SPECIFIC KVA RATINGS REFERENCED IN THE TABLE BELOW ARE DETERMINED WHEN THE TRANSFORMER IS MOUNTED IN A STANDARD ENCLOSURE.
- 3) TRANSFORMERS ARE DESIGNED FOR FLOOR MOUNTING. OPTIONAL WALL MOUNTING BRACKETS ARE NOT AVAILABLE FOR THE TRANSFORMER SIZES REFERENCED IN THE TABLE BELOW.
- 4) TRANSFORMERS ARE DRY TYPE, CLASS AA, WITH VENTILATED ENCLOSURES FOR INDOOR USE. OPTIONAL RAINSHIELD KITS ARE AVAILABLE TO ADAPT ALL SIZES FOR TYPE 3R OUTDOOR USE WITHOUT VOIDING THE WARRANTY.
- 5) APPLICABLE WHEN OPTIONAL RAINSHIELDS ARE INSTALLED. RAINSHIELDS ARE SHIPPED IN KITS FOR FIELD INSTALLATION.
- 6) CABLE ENTRANCE IS PERMITTED THROUGH THE LEFT SIDE, RIGHT SIDE AND/OR BOTTOM ENCLOSURE PANELS ONLY. CABLE ENTRANCE IS NOT PERMITTED THROUGH THE FRONT, REAR OR TOP PANELS.
- 7) 0.406" DIA HOLES ARE PROVIDED FOR CUSTOMER TERMINATION.
- 8) FOR LIFTING, OTHER THAN WITH A FORK TRUCK, REMOVE TOP COVER AND USE 1" DIAMETER HOLES IN THE TOP CORE CLAMPS.
- 9) PAINT COLOR IS ANSI #61 GRAY.
- 10) 6" MINIMUM CLEARANCE IS REQUIRED FROM ALL WALLS.



TYPICAL KVA RATINGS AND TEMPERATURE RISES					
CONDUCTOR	REF. kVA AT			WEIGHT LBS. (APPROX.)	dB LEVEL
	150°C RISE	112.5°C RISE	80°C RISE		
ALUMINUM	150	112.5	N/A	1070	50
COPPER	150	N/A	N/A	1190	

CATALOG NO.	QTY.	COIL CONDUCTOR	kVA	TEMP RISE	VOLTAGE		TAPS	DRAWING	
					PRIMARY	SECONDARY			
									APPROVAL
									RECORD
								OTHER	

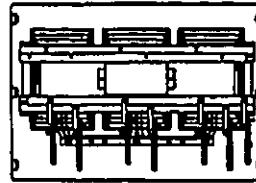
CUST.	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION 	GENERAL ELECTRIC COMPANY GE Consumer & Industrial OUTLINE DRAWING (ENCLOSED UNIT) TP1, 3 PHASE	DWG NO. 303B401AAP076	REV. 3
JOB				
P.O.				
R.F.Q.				
S.O.	SHEET 1 OF 3			



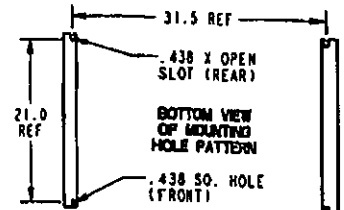
GENERAL ELECTRIC DRY TYPE TRANSFORMERS

NOTES:

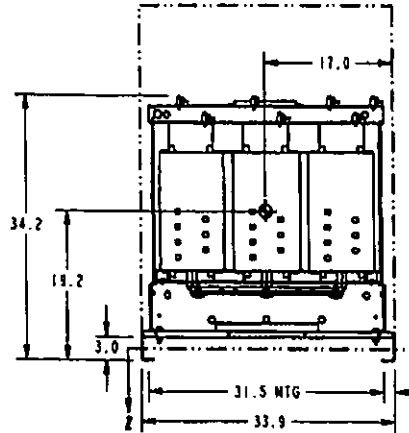
- 1) ALL UNITS ARE UL LISTED AND ARE DESIGNED IN ACCORDANCE WITH ANSI C89.2 AND NEMA ST-20 STANDARDS.
- 2) TRANSFORMERS UTILIZE A UL RECOGNIZED 220°C INSULATION SYSTEM THE TEMPERATURE RISES FOR THE SPECIFIC KVA RATINGS REFERENCED IN THE TABLE BELOW ARE DETERMINED WHEN THE TRANSFORMER IS MOUNTED IN A STANDARD ENCLOSURE.
- 3) TRANSFORMERS ARE DRY TYPE, CLASS AA, FOR INDOOR USE.
- 4) 0.406" DIA HOLES ARE PROVIDED FOR CUSTOMER TERMINATION.
- 5) FOR LIFTING, OTHER THAN WITH A FORK TRUCK, USE 1" DIAMETER HOLES IN THE TOP CORE CLAMPS.
- 6) BASE PAINT COLOR IS ANSI #61 GRAY.
- 7) 6" MINIMUM CLEARANCE IS REQUIRED FROM ALL WALLS.



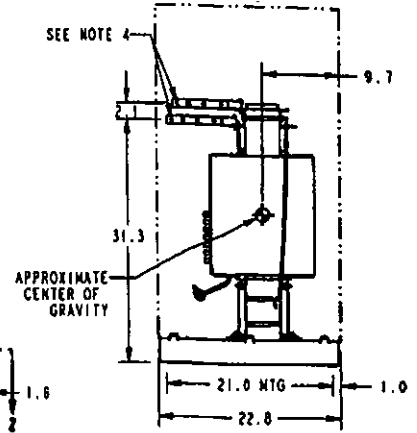
TOP VIEW



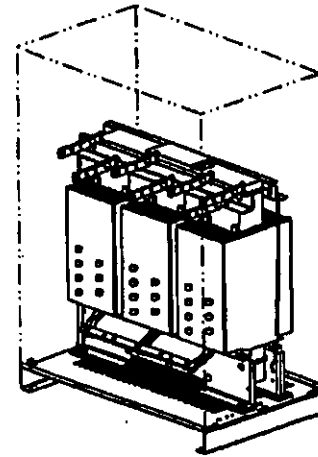
SECTION Z-Z



FRONT VIEW



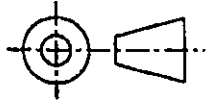

SIDE VIEW



ISOMETRIC VIEW

TYPICAL kVA RATINGS AND TEMPERATURE RISES					
CONDUCTOR	REF. kVA AT			WEIGHT LBS. (APPROX.)	dB LEVEL
	150°C RISE	115°C RISE	80°C RISE		
ALUMINUM	150	112.5	N/A	980	50
COPPER	150	N/A	N/A	1080	

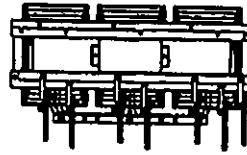
CATALOG NO.	QTY.	COIL CONDUCTOR	KVA	TEMP RISE	VOLTAGE		TAPS	DRAWING
					PRIMARY	SECONDARY		
								APPROVAL
								RECORD
								OTHER

CUST.	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION 	 GENERAL ELECTRIC COMPANY GE Consumer & Industrial	OUTLINE DRAWING (CORE & COIL UNIT WITH BASE) TP1, 3 PHASE
JOB			
P.O.			
R.F.Q.			
S.O.	SHEET 2 OF 3	DWG NO.	303B401AAP076
		REV.	3

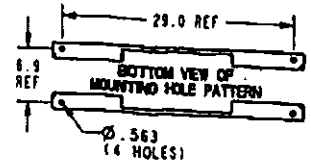


GENERAL ELECTRIC DRY TYPE TRANSFORMERS

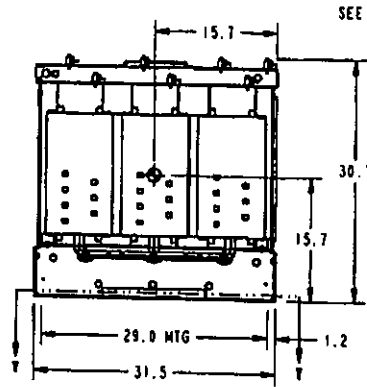
- NOTES:
- 1) ALL UNITS ARE UL LISTED AND ARE DESIGNED IN ACCORDANCE WITH ANSI C89.2 AND NEMA ST-20 STANDARDS.
 - 2) TRANSFORMERS UTILIZE A UL RECOGNIZED 220°C INSULATION SYSTEM THE TEMPERATURE RISE(S) FOR THE SPECIFIC KVA RATINGS REFERENCED IN THE TABLE BELOW ARE DETERMINED WHEN THE TRANSFORMER IS MOUNTED IN A STANDARD ENCLOSURE.
 - 3) TRANSFORMERS ARE DRY TYPE, CLASS AA, FOR INDOOR USE.
 - 4) 0.406" DIA HOLES ARE PROVIDED FOR CUSTOMER TERMINATION.
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 - 6) 6" MINIMUM CLEARANCE IS REQUIRED FROM ALL WALLS.



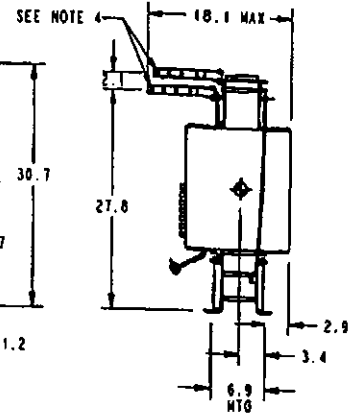
TOP VIEW



SECTION Y-Y

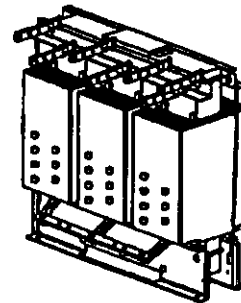


FRONT VIEW



SIDE VIEW

TYPICAL KVA RATINGS AND TEMPERATURE RISES					
CONDUCTOR	REF. KVA AT			WEIGHT LBS. (APPROX.)	Ø LEVEL
	150°C RISE	115°C RISE	80°C RISE		
ALUMINUM	150	112.5	N/A	960	50
COPPER	150	N/A	N/A	1080	



ISOMETRIC VIEW

CATALOG NO.	QTY.	COIL CONDUCTOR	KVA	TEMP RISE	VOLTAGE		TAPS	DRAWING	
					PRIMARY	SECONDARY			
									APPROVAL
									RECORD
								OTHER	

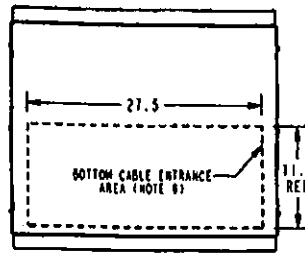
CUST.	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION 	GENERAL ELECTRIC COMPANY GE Consumer & Industrial OUTLINE DRAWING (CORE & COIL UNIT WITHOUT BASE) TPI, 3 PHASE	DWG NO. 303B401AAP076	REV. 3
JOB				
P.O.				
R.F.Q.				
S.O.	SHEET 3 OF 3			



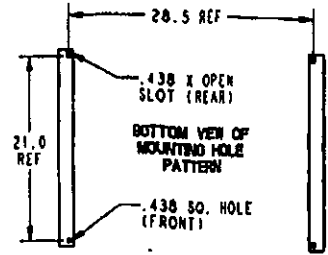
GENERAL ELECTRIC DRY TYPE TRANSFORMERS

NOTES:

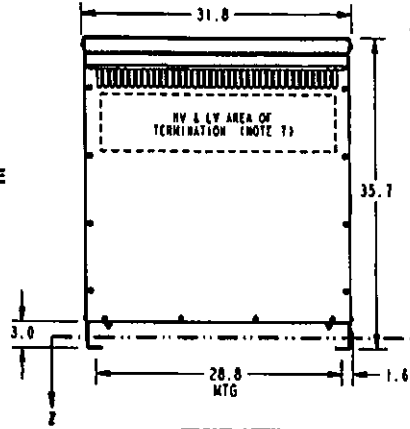
- 1) ALL UNITS ARE UL LISTED AND ARE DESIGNED IN ACCORDANCE WITH ANSI C89.2 AND NEMA ST-20 STANDARDS.
- 2) TRANSFORMERS UTILIZE A UL RECOGNIZED 220°C INSULATION SYSTEM THE TEMPERATURE RISE(S) FOR THE SPECIFIC KVA RATINGS REFERENCED IN THE TABLE BELOW ARE DETERMINED WHEN THE TRANSFORMER IS MOUNTED IN A STANDARD ENCLOSURE.
- 3) TRANSFORMERS ARE DESIGNED FOR FLOOR MOUNTING. OPTIONAL WALL MOUNTING BRACKETS ARE AVAILABLE FOR THE TRANSFORMER SIZES REFERENCED IN THE TABLE BELOW.
- 4) TRANSFORMERS ARE DRY TYPE, CLASS AA, WITH VENTILATED ENCLOSURES FOR INDOOR USE. OPTIONAL RAINSHIELD KITS ARE AVAILABLE TO ADAPT ALL SIZES FOR TYPE 3R OUTDOOR USE WITHOUT VOIDING THE WARRANTY.
- 5) APPLICABLE WHEN OPTIONAL RAINSHIELDS ARE INSTALLED. RAINSHIELDS ARE SHIPPED IN KITS FOR FIELD INSTALLATION.
- 6) CABLE ENTRANCE IS PERMITTED THROUGH THE LEFT SIDE, RIGHT SIDE AND/OR BOTTOM ENCLOSURE PANELS ONLY. CABLE ENTRANCE IS NOT PERMITTED THROUGH THE FRONT, REAR OR TOP PANELS.
- 7) 0.406" DIA HOLES ARE PROVIDED FOR CUSTOMER TERMINATION.
- 8) FOR LIFTING, OTHER THAN WITH A FORK TRUCK, REMOVE TOP COVER AND USE 1" DIAMETER HOLES IN THE TOP CORE CLAMPS.
- 9) PAINT COLOR IS ANSI #61 GRAY.
- 10) 6" MINIMUM CLEARANCE IS REQUIRED FROM ALL WALLS.



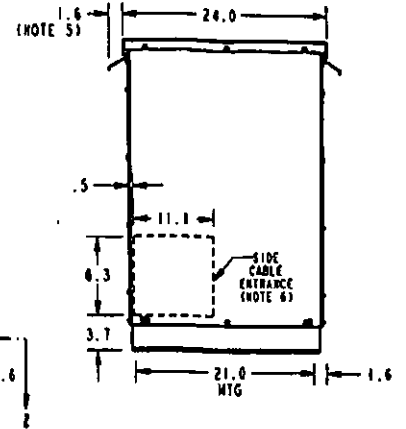
TOP VIEW



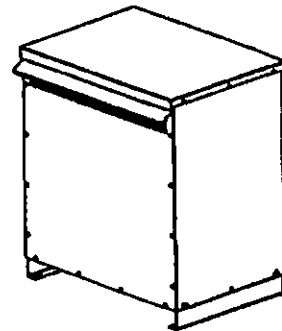
SECTION 2-2



FRONT VIEW



SIDE VIEW



ISOMETRIC VIEW

COIL	REF. kVA AT			WEIGHT LBS. (APPROX.)	dB LEVEL
	50°C RISE	15°C RISE	80°C RISE		
ALUMINUM	75	75	45	620	50
COPPER	75	75	45	710	

CATALOG NO.	QTY.	COIL CONDUCTOR	KVA	TEMP RISE	VOLTAGE		TAPS	DRAWING
					PRIMARY	SECONDARY		
								APPROVAL
								RECORD
								OTHER

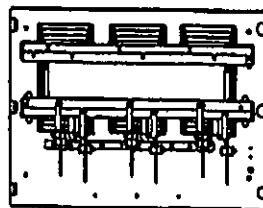
CUST.	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION 	GENERAL ELECTRIC COMPANY GE Consumer & Industrial OUTLINE DRAWING (ENCLOSED UNIT) TP1, 3 PHASE	DWG NO.	REV.
JOB			303B401AAP074	2
P.O.				
R.F.D.				
S.O.	SHEET 1 OF 3			



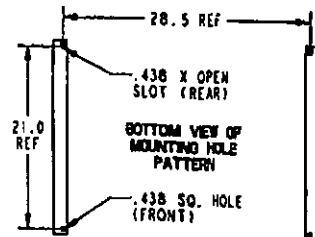
GENERAL ELECTRIC DRY TYPE TRANSFORMERS

NOTES:

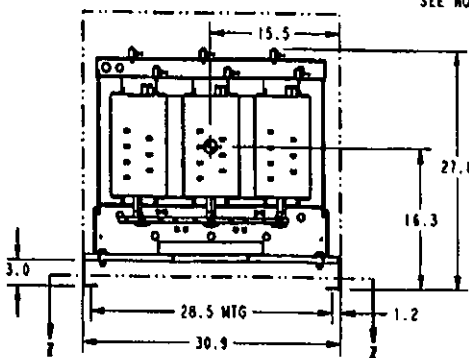
- 1) ALL UNITS ARE UL LISTED AND ARE DESIGNED IN ACCORDANCE WITH ANSI C89.2 AND NEMA 5T-20 STANDARDS.
- 2) TRANSFORMERS UTILIZE A-UL RECOGNIZED 220°C INSULATION SYSTEM. THE TEMPERATURE RISE(S) FOR THE SPECIFIC KVA RATINGS REFERENCED IN THE TABLE BELOW ARE DETERMINED WHEN THE TRANSFORMER IS MOUNTED IN A STANDARD ENCLOSURE.
- 3) TRANSFORMERS ARE DRY TYPE, CLASS AA, FOR INDOOR USE.
- 4) 0.408" DIA HOLES ARE PROVIDED FOR CUSTOMER TERMINATION.
- 5) FOR LIFTING, OTHER THAN WITH A FORK TRUCK, USE 1" DIAMETER HOLES IN THE TOP CORE CLAMPS.
- 6) BASE PAINT COLOR IS ANSI #61 GRAY.
- 7) 6" MINIMUM CLEARANCE IS REQUIRED FROM ALL WALLS.



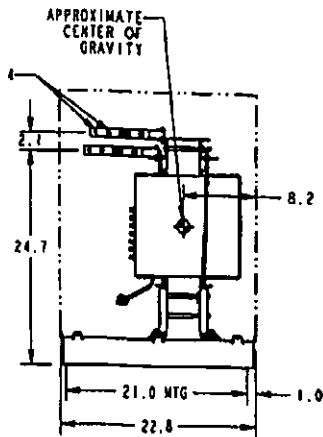
TOP VIEW



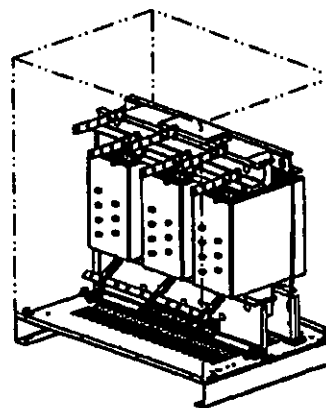
SECTION 2-2



FRONT VIEW



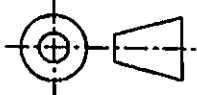

SIDE VIEW



ISOMETRIC VIEW

TYPICAL KVA RATINGS AND TEMPERATURE RISES					
COIL	REF. KVA AT			WEIGHT LBS. (APPROX.)	dB LEVEL
	50°C RISE	75°C RISE	100°C RISE		
ALUMINUM	75	75	45	525	50
COPPER	75	75	45	610	

CATALOG NO.	QTY.	COIL CONDUCTOR	KVA	TEMP RISE	VOLTAGE		TAPS	DRAWING APPROVAL RECORD OTHER
					PRIMARY	SECONDARY		

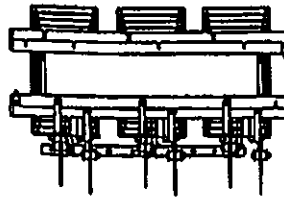
CUST.	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION 	 GENERAL ELECTRIC COMPANY GE Consumer & Industrial	
JOB			OUTLINE DRAWING (CORE & COIL UNIT WITH BASE) TP1, 3 PHASE
P.O.		DWG NO.	REV.
R.F.Q.		SHEET 2 OF 3	303B401AAP074	2
S.O.			



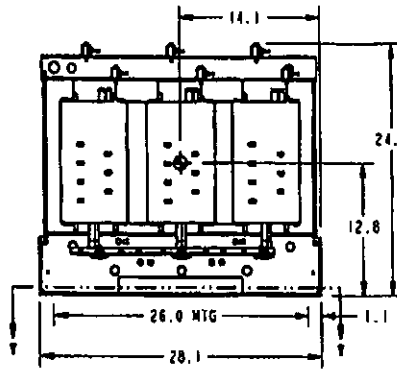
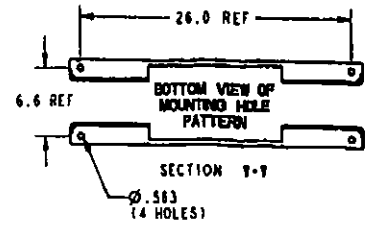
GENERAL ELECTRIC DRY TYPE TRANSFORMERS

NOTES:

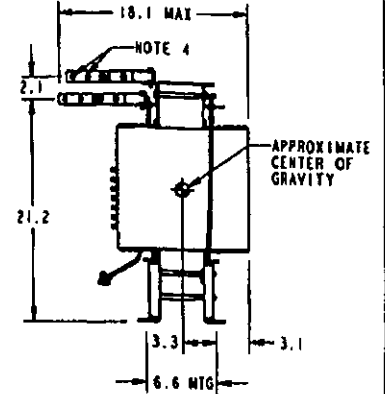
- 1) ALL UNITS ARE UL LISTED AND ARE DESIGNED IN ACCORDANCE WITH ANSI C89.2 AND NEMA ST-20 STANDARDS.
- 2) TRANSFORMERS UTILIZE A UL RECOGNIZED 220°C INSULATION SYSTEM. THE TEMPERATURE RISE(S) FOR THE SPECIFIC KVA RATINGS REFERENCED IN THE TABLE BELOW ARE DETERMINED WHEN THE TRANSFORMER IS MOUNTED IN A STANDARD ENCLOSURE.
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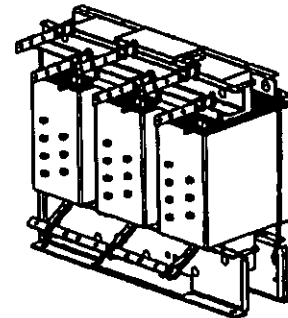
TOP VIEW



FRONT VIEW



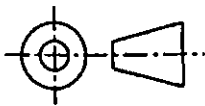

SIDE VIEW



ISOMETRIC VIEW

TYPICAL kVA RATINGS AND TEMPERATURE RISES					
COIL	REF. kVA AT			WEIGHT LBS. (APPROX.)	dB LEVEL
	150°C RISE	115°C RISE	80°C RISE		
ALUMINUM	75	75	45	525	50
COPPER	75	75	45	610	

CATALOG NO.	QTY.	COIL CONDUCTOR	KVA	TEMP RISE	VOLTAGE		TAPS	DRAWING
					PRIMARY	SECONDARY		
								APPROVAL
								RECORD
								OTHER

CUST.	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION 	 GENERAL ELECTRIC COMPANY GE Consumer & Industrial	OUTLINE DRAWING (CORE & COIL UNIT WITHOUT BASE) TPI, 3 PHASE	DWG NO.	303B401AAP074	REV.	2
JOB							
P.O.		SHEET 3 OF 3					
R.F.Q.							

5.0.



Transformer

Catalog Number TYPE QL

9T83B3876

150.0 KVA 60 HZ 3 PH 6.3% IMP

40 C.A.M.B. 150 C RISE 220 C SYSTEM IS-19C

PRIMARY (H) 480 VOLTS (LINE-LINE)
SECONDARY (X) 208 VOLTS (LINE-LINE)
120 VOLTS (LINE-NEUTRAL)

ELECTROSTATIC GROUND: SHIELD IN EACH PHASE

ENCLOSURE TYPE 2 (IP20) RAINPROOF TYPE 3R ENCLOSURE (IP33) WHEN PROVIDED SHIELD 9T18V4317G07

BEFORE HANDLING, INSTALLING AND OPERATING, SEE INSTRUCTION 475A667AAP001
ALUMINUM CONDUCTOR PRIMARY: 10 KV BIL SECONDARY: 10 KV BIL

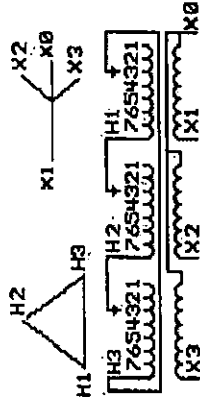
IN ACCORDANCE WITH NEC SECTION 450-9, ALLOW AT LEAST SIX INCHES CLEARANCE FOR VENTILATION. CHECK ADDITIONAL NEC AND LOCAL CODES.

GE Consumer & Industrial

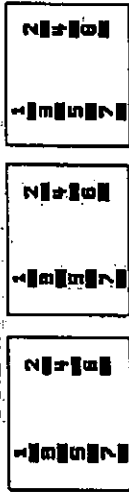
NEMA CLASS AA DRY TYPE TRANSFORMER

Meets TP-1 1996 efficiency

JUMPER CONNECTION TAP VOLTS
1 501
2 491
3 480
4 470
5 454
6 444
7 433



COIL TAP ARRANGEMENT



INSPECTION & FINAL TEST: N8396.

092408

NET WGT 904 LB

Outline: 303B401AAP076



1M0000000



2M0000000



2M0000000

Assembled in Mexico :12617

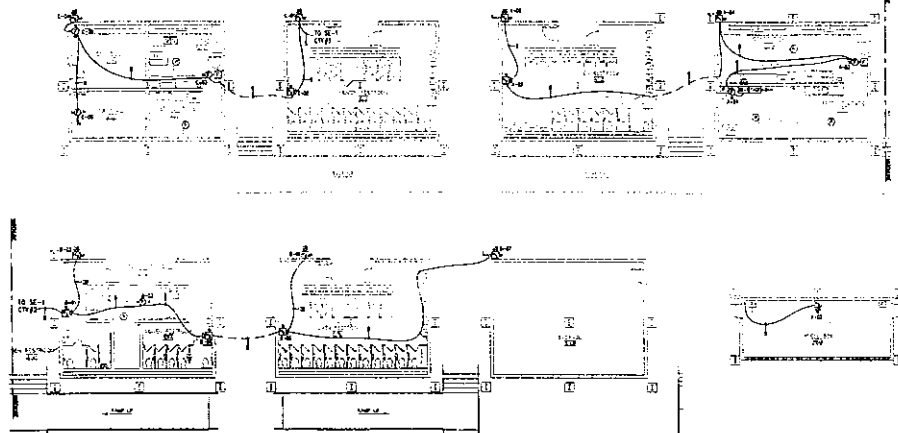


Transformer

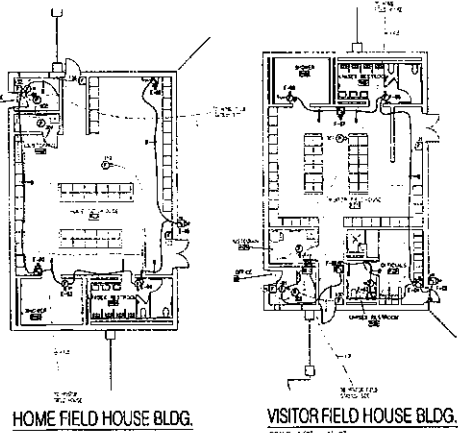
Catalog Number 9T83B3874	TYPE Q1	JUMPER CONNECTION TAP VOLTS 1 50Z 2 49L 3 480 4 469 5 455 6 444 7 433
75.0 KVA 60 HZ 3 PH 6% IMP.		40 C. AMP. 50 C. RISE 200 C. SYSTEM 1S-19C.
PRIMARY (H) 480 VOLTS (LINE-LINE) SECONDARY (X) 208 VOLTS (LINE-LINE) 120 VOLTS (LINE-NEUTRAL)	COIL TAP ARRANGEMENT 	
ELECTROSTATIC GROUND SHIELD IN EACH PHASE ENCLOSURE TYPE 2 (P20); RAINPROOF TYPE 3R ENCLOSURE (P30) WHEN PROVIDED SHIELD (T1874) (P760) BEFORE HANDLING, INSTALLING AND OPENING, SEE INSTRUCTION 454667A (P001) ALUMINUM CONDUCTOR PRIMARY: 10 KV BIL SECONDARY: 10 KV BIL		INSPECTION & FINAL TEST NONE 082608 NET WT 620 LB

Assembled in Mexico
 12337
 1M000000
 2M000000
 2M000000

Outline 300840A (P01)
 MEETS TP-1 1995 EFFICIENCY
NEMA CLASS AA DRY TYPE TRANSFORMER
GE Consumer & Industrial

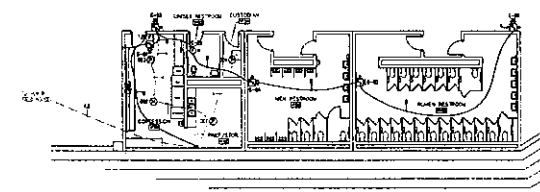


HOME FIELD STADIUM SIDE
SCALE 1/8" = 1'-0"

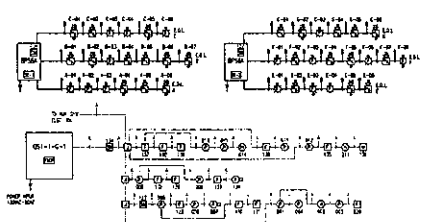


HOME FIELD HOUSE BLDG.
SCALE 1/8" = 1'-0"

VISITOR FIELD HOUSE BLDG.
SCALE 1/8" = 1'-0"



VISITOR FIELD STADIUM SIDE
SCALE 1/8" = 1'-0"



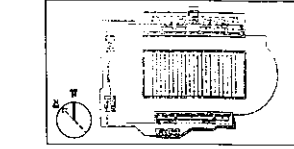
FIRE ALARM RISER DIAGRAM
SCALE 1/8"

WIRE LEGEND (CONTACT D'S IF PLENUM RATING REQUIRED)

TYPE	WIRE	WIRE	WIRE	WIRE
1	14	14	14	14
2	12	12	12	12
3	10	10	10	10
4	8	8	8	8
5	6	6	6	6
6	4	4	4	4
7	2	2	2	2

- GENERAL DRAWING NOTES**
- INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRIC CODE, APPLICABLE LOCAL CODES, AND THE AUTHORITY HAVING JURISDICTION.
 - ALL WIRING SHALL BE CAREFULLY LABELED.
 - ALL WIRING SHALL BE TESTED WITH APPROPRIATE TEST EQUIPMENT FOR OPEN, SHORTS, AND SPARKS PRIOR TO CONNECTING TO THE EQUIPMENT.
 - ALL WORK SHOULD BE IN A NEAT AND PROFESSIONAL MANNER.
 - ANY DEVIATIONS FROM THE APPROVED SHOP DRAWINGS SHOULD BE CLEARLY MARKED FOR AS-BUILT PURPOSES.

- DRAWING NOTES**
- 1. SEE PANEL 8 REEVE DRAWING FOR ADDITIONAL INFORMATION. WIRE 1
 - 2. ROOM NUMBER, EXCEPT WHERE SHOWN BY SYMBOLIC NOTATION. WIRE 2
 - 3. SYMBOLS OF INSTALLED DEVICES SHOWN IN ENCLOSURES. WIRE 3
 - 4. E.D. SYMBOLS SHALL BE IN THE FIELD. WIRE 4
 - 5. SYMBOLS PROVIDED FOR CLERK-IN-CHARGE. WIRE 5



SITE PLAN

REVISIONS

NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			

SYMBOL LEGEND

SYMBOL	DESCRIPTION	MODEL
⊕	FIRE ALARM CONTROL PANEL	4511-1-1
⊕	LOCAL COMMUNICATOR	1-2
⊕	SMALL CONTROLLER	8752/1A
⊕	PHOTOELECTRIC SMOKE DETECTOR	5217/1A
⊕	PHOTOELECTRIC SMOKE DETECTOR	5217/1A
⊕	HEAT DETECTOR	5217/1A
⊕	DOUBLE ACTOR SIGNAL PULL STATION	5217-128
⊕	SYNCHRONOUS SMOKE SMOKE UNIT (SNU)	4174-1000
⊕	SYNCHRONOUS SMOKE SMOKE UNIT (SNU)	4174-1000
⊕	SYNCHRONOUS SMOKE SMOKE UNIT (SNU)	4174-1000
⊕	SHAKE SMOKE SMOKE SMOKE	5217-111
⊕	FRANCOIS VOLTAGE SMOKE SUPPRESSOR	885-314/1-1
⊕	10K 1/2 WATT END OF LINE SOURCE	1/2
⊕	ACTUATOR BOX	1/2
⊕	END OF LINE	1/2
⊕	120VAC POWER SOURCE	1/2

DIEBOLD FIRE SERVICES

1400 A. O. Jones Blvd.
Fort Mill, SC 29715

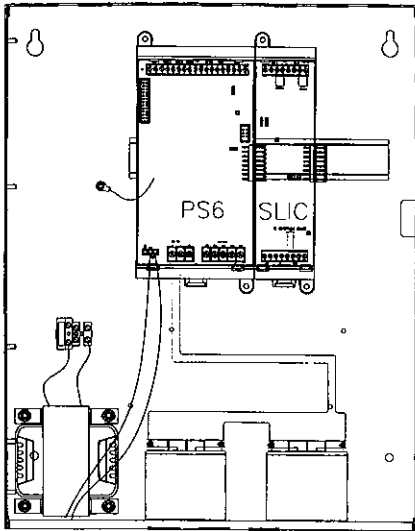
Phone: 803-547-1111
Fax: 803-547-1112

1400 A. O. Jones Blvd.
Fort Mill, SC 29715

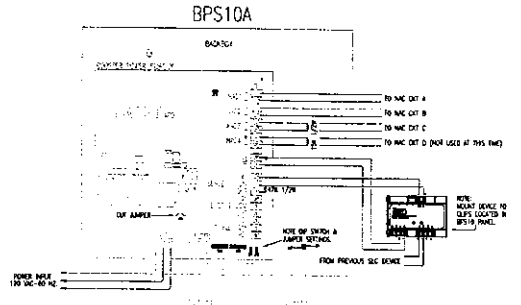
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Fax: 803-547-1112

1400 A. O. Jones Blvd.
Fort Mill, SC 29715

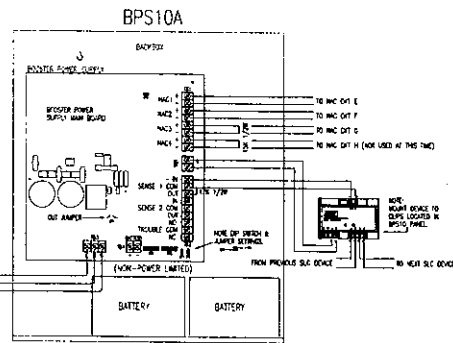
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Fax: 803-547-1112



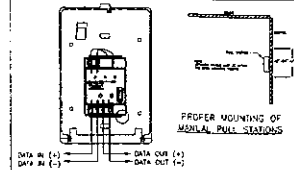
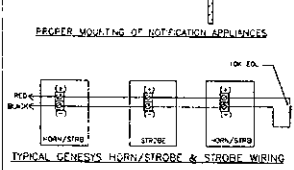
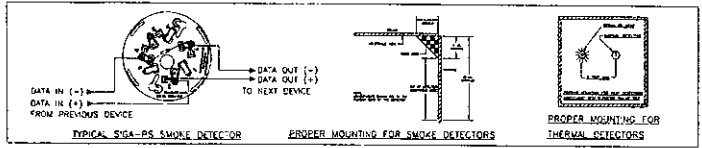
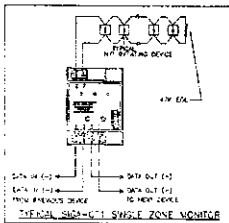
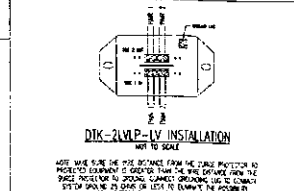
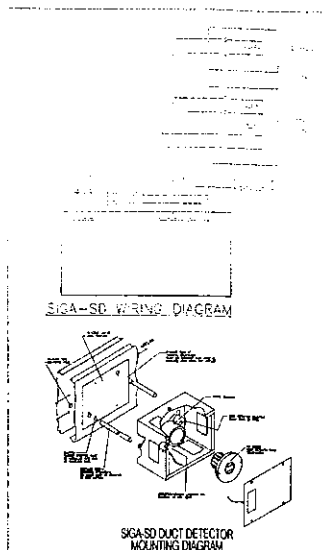
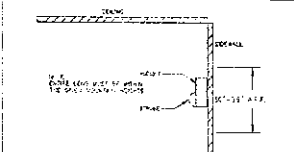
QS1-1-G-1 FIRE ALARM CONTROL PANEL



SE-1 SIGNAL BOOSTER WIRING



SE-2 SIGNAL BOOSTER WIRING



DATE	REVISIONS	BY
10/10/87	1	AS-SD/SD
10/10/87	2	AS-SD/SD
10/10/87	3	AS-SD/SD
10/10/87	4	AS-SD/SD
10/10/87	5	AS-SD/SD
10/10/87	6	AS-SD/SD
10/10/87	7	AS-SD/SD
10/10/87	8	AS-SD/SD
10/10/87	9	AS-SD/SD
10/10/87	10	AS-SD/SD

DIEMOLD FIRE SERVICES
 10000 Highway 101, Suite 100
 Fort Mill, SC 29505
 P: 803-547-1111
 F: 803-547-1112
 10000 Highway 101, Suite 100
 Fort Mill, SC 29505
 P: 803-547-1111
 F: 803-547-1112

NEEDHAM FORD HIGH SCHOOL, SUDBURY
 1400 N. O. Jones Blvd.
 Fort Mill, SC 29515
 SCALE: AS SHOWN

NATION FORD HIGH SCHOOL STADIUM WATERLINE DESIGN PLANS

AO JONES BLVD
AND SPRINGFIELD PARKWAY
FORT MILL, SOUTH CAROLINA

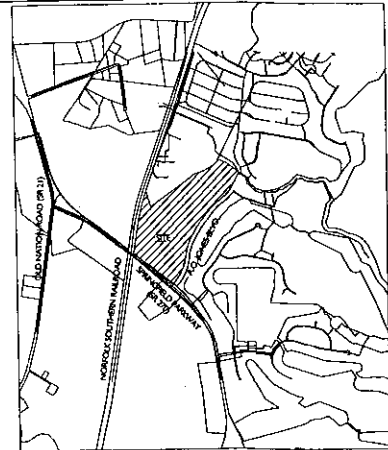
OWNER
Fort Mill School District, No. 4
120 E. Elliot Street
Fort Mill, SC 29715
(803) 548-2527
Contact: Dr. Keith Galkout

CONSTRUCTION MANAGER
Southern Management Group
2136 Main Street
Fort Mill, SC 29715
803.396.1700
Contact: James Britton

CIVIL ENGINEER
LandDesign, Inc.
323 North Graham Street
Charlotte, NC 28202
704.333.0325
Contact: Matt Roper

SHEET INDEX:

C-00	Cover Sheet	1/16/09
C-10	Overall Site Plan	1/16/09
C-20	Plan and Profile STA 6+48.00 TO 11+20.00	1/16/09
C-21	Plan and Profile STA 11+20.00 TO 17+29.00	1/16/09
C-33	On-site Water Line	1/16/09
C-35	Utility Details	1/16/09
C-37	Utility Details	1/16/09



VICINITY MAP

SITE TAX MAP # 0302101282

Off-site Waterline Quantity Tables

12" PVC	1661 LF
Fire Hydrants	6 EA
12" Gate Valves	1 EA
6" Gate Valves	6 EA
Manholes (<4ft deep)	1 EA
4" Water Meter	1 EA
4" Backflow Preventer	1 EA
Connections to Existing	1 EA
End of Line Assembly	1 EA
Jumper Connections	1 EA
Water Blow-off	1 EA

On-site Waterline Quantity Tables

8" PVC	569 LF
6" PVC	151 LF
4" PVC	967 LF
3" PVC	196 LF
8" Gate Valves	1 EA
4" Gate Valves	1 EA
2" Gate Valves	3 EA
Fire Hydrants	1 EA
Gate Valves	1 EA
Connections to Existing	1 EA
End of Line Assembly	2 EA

*2x Details
804 333.0325
804-333-0325
Ext 288 2008*

*LandDesign, Inc.
grace.bid@gmail.com*

#7

LandDesign, Inc.
200 North Graham Street
Charlotte, NC 28202
(704) 333-0325

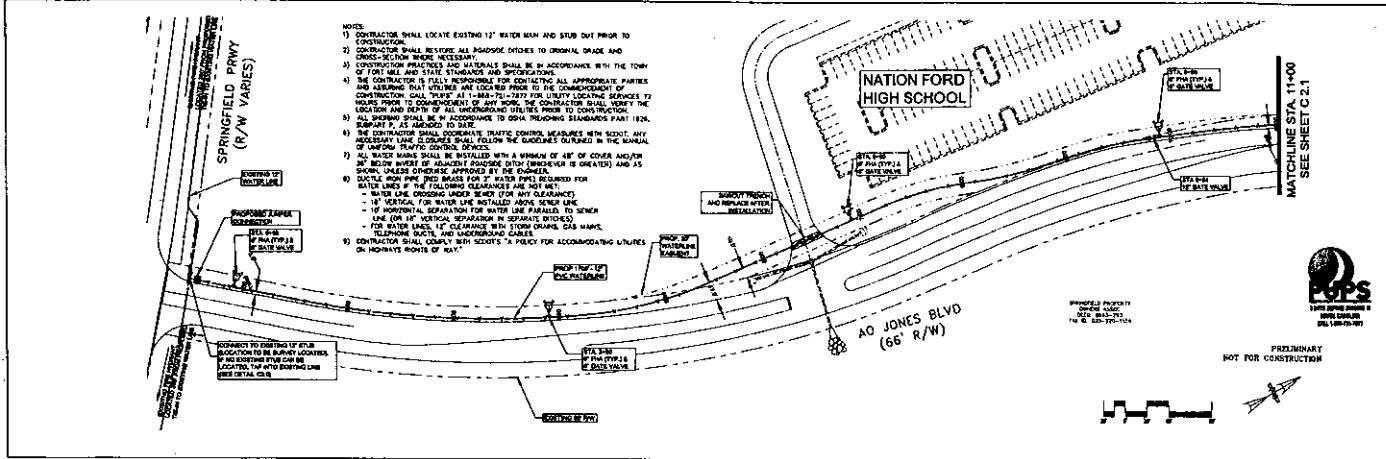
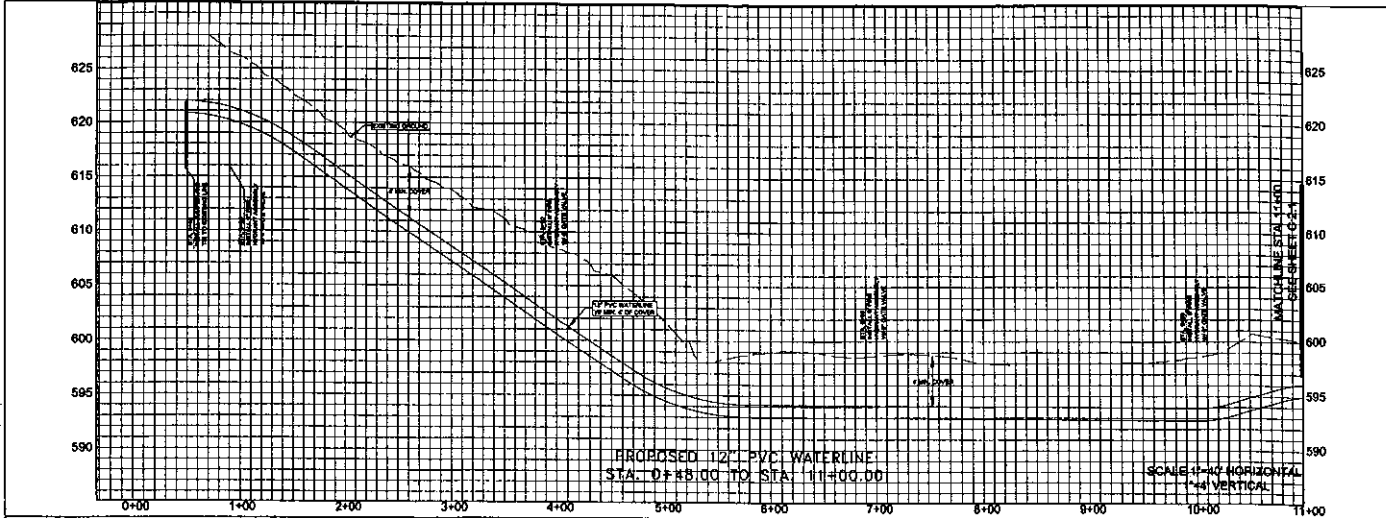
Not to Construct
 Approved for Construction
 Approved for Planning
 Approved for Contract

**NATION FORD H.S. STADIUM
WATER LINE DESIGN
ROCK HILL, SC**

4" B-Water SCL

COVER SHEET

C 0.0



- NOTES:
- 1) CONTRACTOR SHALL LOCATE EXISTING 12" WATER MAIN AND STUB OUT PRIOR TO CONSTRUCTION.
 - 2) CONTRACTOR SHALL RESTORE ALL ROADSIDE DITCHES TO ORIGINAL GRADE AND CROSS-SECTION WHERE NECESSARY.
 - 3) CONSTRUCTION PRACTICES AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TOWN OF FORD, MASS. AND STATE STATUTES AND REGULATIONS.
 - 4) THE CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING ALL APPROPRIATE PARTIES AND AGENCIES THAT UTILITIES ARE LOCATED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CALL "911" AT 1-800-751-7873 FOR UTILITY LOCATING SERVICES 72 HOURS PRIOR TO COMMENCEMENT OF ANY WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
 - 5) ALL WORKMAN SHALL BE IN ACCORDANCE TO OSHA TRAINING STANDARDS PART 1910, SUBPART P, AS APPLICABLE TO DATE.
 - 6) THE CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL MEASURES WITH ROADWAY NECESSARY LINE. CONTRACTOR SHALL FOLLOW THE GUIDELINES OUTLINED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 - 7) ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 48" OF COVER AND/OR 48" BELOW SURFACE OF ADJACENT PAVED DRIVE (WHICHEVER IS GREATER) AND AS SHOWN, UNLESS OTHERWISE APPROVED BY THE OWNER.
 - 8) DITCHES WITH 18" DEPTH SHALL BE 12" WATER PIPE) REQUIRED FOR WATER LINES IF THE FOLLOWING CLEARANCES ARE NOT MET:
 - 18" VERTICAL FOR WATER LINE INSTALLED ABOVE SENEER LINE
 - 12" HORIZONTAL SEPARATION FOR WATER LINE PARALLEL TO SENEER LINE (OR 18" VERTICAL SEPARATION IN SEPARATE DITCHES)
 - 12" WATER LINES 12" CLEARANCE WITH STORM DRAINS, GAS MAINS, TELEPHONE DUCTS, AND UNDERGROUND CABLES
 - 9) CONTRACTOR SHALL COMPLY WITH ROADWAY'S POLICY FOR ACCOMMODATING UTILITIES ON HIGHWAY RIGHTS OF WAY.

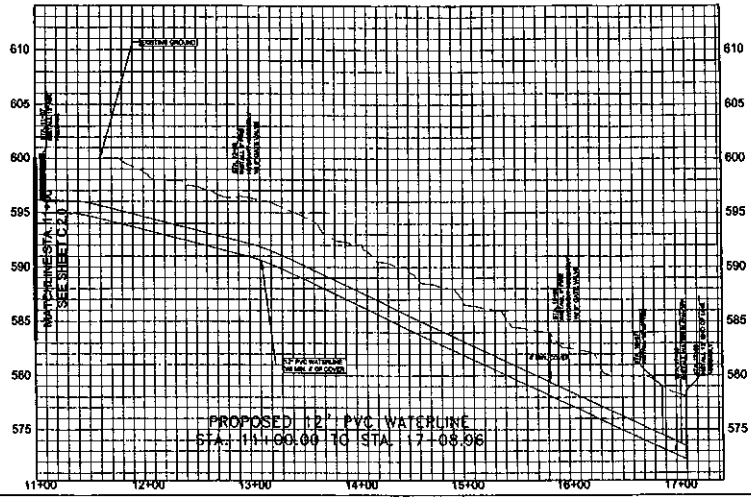
LandDesign.
 25 YEARS OF DESIGN
 100+ PROJECTS
 100+ CLIENTS

Design Consultant
 Survey of Property
 Landmarking
 Utility Design
 Stormwater Management
 Traffic Engineering
 Planning
 Construction Management

**NATION FORD H.S. STADIUM
 WATER LINE DESIGN**
 RICH HALL, SC
 PLAN B PROFILE - STA. 0+48 TO STA. 11+00

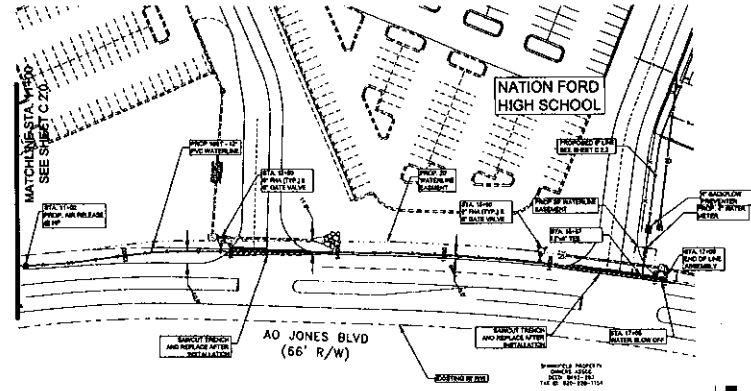
PRELIMINARY
 NOT FOR CONSTRUCTION

C 2.0



SCALE 1"=40' HORIZONTAL
1"=4' VERTICAL

- NOTES:
- 1) CONTRACTOR SHALL LOCATE EXISTING 12" WATER MAIN AND STUB OUT PRIOR TO CONSTRUCTION.
 - 2) CONTRACTOR SHALL BURNISH ALL ROADSIDE DITCHES TO ORIGINAL GRADE AND CROSS-SECTION WHERE NECESSARY.
 - 3) CONSTRUCTION PRACTICES AND MATERIALS SHALL BE IN ACCORDANCE WITH THE FORM OF FIRST HILL AND STATE STANDARDS AND SPECIFICATIONS.
 - 4) THE CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING ALL APPROPRIATE PARTIES AND AGENCIES THAT UTILIZE LINES LOCATED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CALL "811" AT 1-800-735-7873 FOR UTILITY LOCATING SERVICES 72 HOURS PRIOR TO COMMENCEMENT OF ANY WORK. THE CONTRACTOR SHALL SHOW THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
 - 5) ALL WORKING SHALL BE IN ACCORDANCE TO OSHA PERMISSIVE STANDARDS PART 1926.
 - 6) REPAIRS TO ALL ADJACENT GOVERNMENT TRAFFIC CONTROL LEADERSHIP WITHIN 200' OF THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 - 7) ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 48" OF COVER AND/OR 60" MINIMUM DEPTH OF ADJACENT ROADSIDE DITCH (WHICHEVER IS GREATER) AND AS SHOWN UNLESS OTHERWISE APPROVED BY THE OWNER.
 - 8) SCHEDULE 40 PIPE (S40) SHALL BE USED FOR 12" WATER MAINS UNLESS OTHERWISE SPECIFIED.
 - 9) WATER LINE CROSSING UNDER SEWER (FOR ANY CLEARANCE):
 - 12" VERTICAL FOR WATER LINE INSTALLED ABOVE SEWER LINE
 - 10" HORIZONTAL SEPARATION FOR WATER LINE PARALLEL TO SEWER LINE OR 12" VERTICAL SEPARATION FOR SEWER DITCHED
 - FOR WATER LINES 12" CLEARANCE WITH STORM DRAINAGE, GAS MAINS, TELEPHONE DITCHES AND UNDERGROUND CABLES
 - 10) CONTRACTOR SHALL COMPLY WITH SEDOT'S "A POLICY FOR ACCOMMODATING UTILITIES ON HIGHWAYS RIGHTS OF WAY".



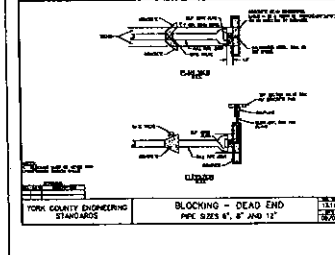
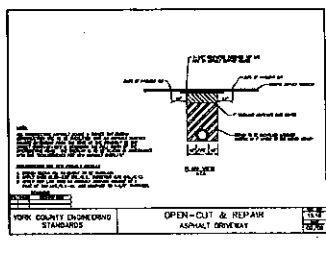
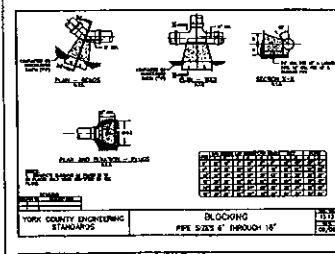
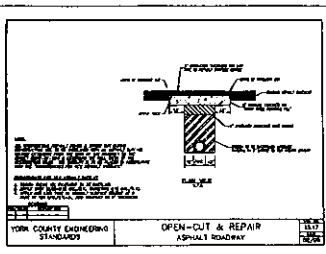
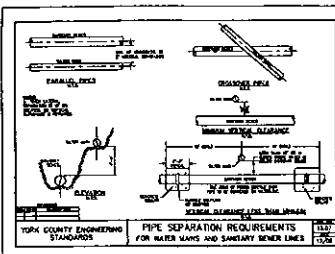
LandDesign
1211 E. Orange Street, Orange, NC 27571
919.875.1111

Design Consultant
 Permitting Authority
 Owner/Client
 Other

NATION FORD H.S. STADIUM
WATER LINE DESIGN
ROCK HILL, SC



PLAN & PROFILE - STA. 11+00 TO STA. 17+09 EOL

C-2.1



LandDesign
INCORPORATED
1000 W. 10TH ST.
ROCK HILL, SC 29733
TEL: 803.781.1111

Design Consultant
 Surveyor
 Professional Engineer
 Professional Geotechnical Engineer

NATION FORD H.S. STADIUM
WATER LINE DESIGN
ROCK HILL, SC
UTILITY DETAILS

DESIGNED BY: [Name]
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

C 3.1

Fire Alarm ANNUNCIATOR

L.S.A. 7

- (R) RED: MANUAL STATIONS
- (Y) YELLOW: SMOKE DETECTORS
- (G) GREEN: HVAC UNIT DUCT DETECTORS
- (B) BLUE: FIRE/SMOKE DAMPERS
- (O) ORANGE: HOOD EXTINGUISHING SYSTEM

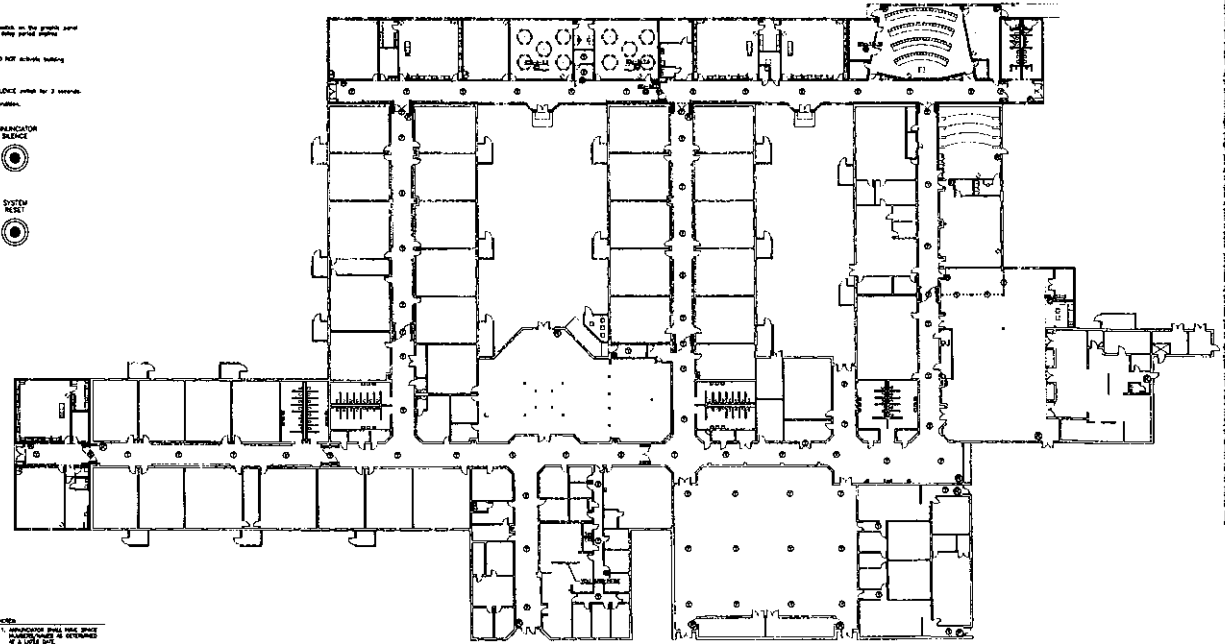
Operating Instruction

Working Above

1. Press the test button (marked "TEST") for 5 seconds to simulate a fire alarm. The alarm will sound and the annunciator will flash.
2. An alarm in the annunciator on the annunciator panel will flash and sound.
3. A "TEST" light on the annunciator panel will flash.
4. Press the "TEST" button on the annunciator panel.
5. Press and hold the "TEST" button on the annunciator panel for 3 seconds until the "TEST" light goes out.

Notes

1. System operation is under control of the annunciator panel.
2. Press and hold the "TEST" button for 3 seconds.
3. Notify proper persons if trouble condition.



NOTES:
 1. ANNUNCIATOR PANEL WILL SOUND ALARM AND FLASH LIGHTS AT A LOSS OF POWER.
 2. LOCAL SERVICE PANEL IS BATTERY POWERED.

Jumper

Carter

Sease

Architects
PA

100 Meeting Street
Fort Mill, South Carolina



FOR SET

FOR SET

FOR SET

FORT MILL MIDDLE SCHOOL
 FORT MILL SCHOOL DISTRICT
 FORT MILL, SOUTH CAROLINA

DATE: 01003

DATE: AUG. 2001

E8.2



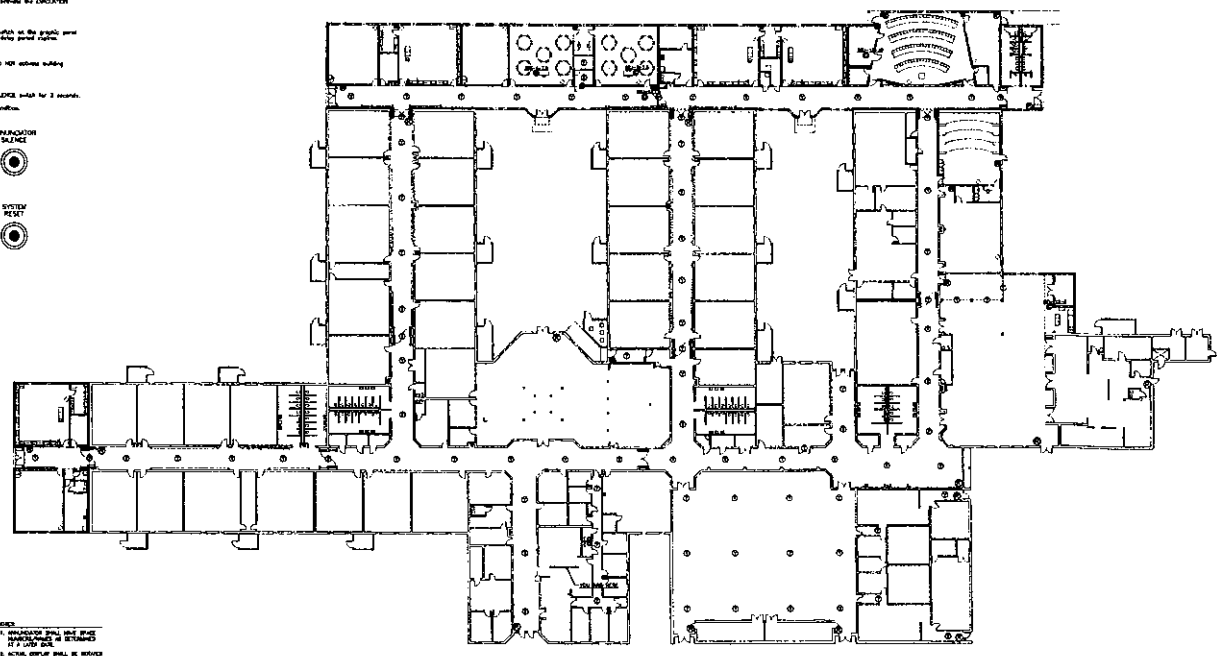
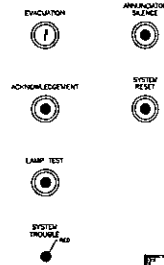
Fire Alarm ANNUNCIATOR

- (R) RED: MANUAL STATIONS
- (Y) YELLOW: SMOKE DETECTORS
- (G) GREEN: HVAC UNIT DUCT DETECTORS
- (B) BLUE: FIRE/SMOKE DAMPERS
- (O) ORANGE: HOOD EXTINGUISHING SYSTEM

Operating Instruction

- During Alarm**
- Press and hold ACKNOWLEDGMENT button for 3 seconds within 15 seconds of alarm initiation. This will place a signal to ANNUNCIATOR PANEL of alarm status being acknowledged.
 - Go directly to the alarm indicated on the annunciator panel and extinguish the source of alarm.
 - If alarm is an extinguishing condition, initiate fire EXERCISE button.
 - If alarm is an extinguishing condition, check the status of the EXERCISE button on the annunciator panel. If the EXERCISE button is not lit, press the EXERCISE button for 3 seconds.

- Notes**
- During operation of smoke doors DO NOT release building alarm system.
 - Press and hold the ANNUNCIATOR button until for 3 seconds.
 - Ready alarm status of trouble condition.



1. ANNUNCIATOR PANEL AND ALARM INDICATORS TO BE INSTALLED AT 7' CLEARANCE.
 2. ALARM GROUP SHALL BE MARKED FOR EASY ACCESS.

Jumper
 Carter
 Seese
 Architects
 PA

78 Building Street
 Fort Mill, South Carolina

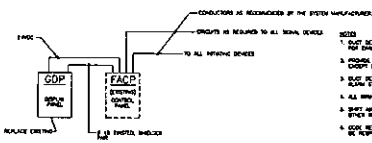


GOLDHILL MIDDLE SCHOOL
 FORT MILL SCHOOL DISTRICT
 FORT MILL, SOUTH CAROLINA

01002
 AUG. 2001

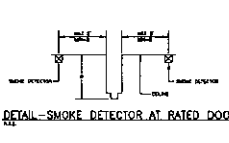


E8.2

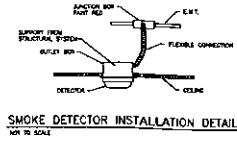


FIRE ALARM SCHEMATIC

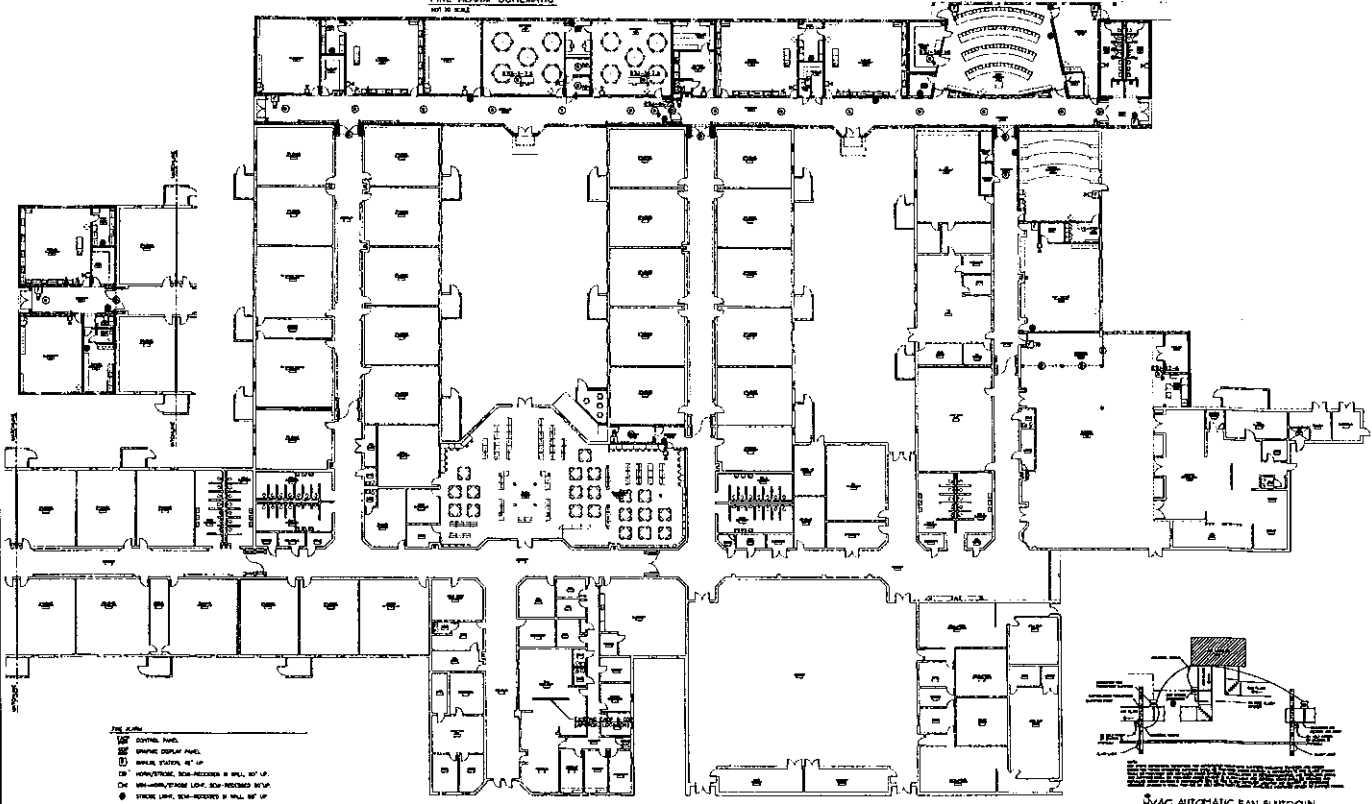
1. DETECTOR SHALL HAVE A MINIMUM CONTACT OF 100 OHMS AT 110V.
2. WIRING SHALL BE RATED TO ALL RATED LEVELS TO ALL WIRING DEVICES.
3. DETECTOR SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
4. ALL WIRING SHALL BE IN CONDUIT.
5. DETECTOR SHALL BE WIRE CONNECTED TO THE FACP.
6. DETECTOR SHALL BE WIRE CONNECTED TO THE FACP.



DETAIL-SMOKE DETECTOR AT RATED DOORS

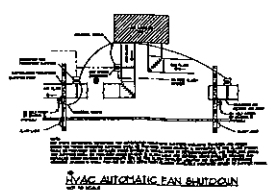


SMOKE DETECTOR INSTALLATION DETAIL



FIRE ALARM PLAN

- LEGEND**
- CONTROL PANEL
 - SMOKE DETECTOR PANEL
 - MANUAL STATION, 1st FLOOR
 - MANUAL STATION, 2nd FLOOR
 - MANUAL STATION, 3rd FLOOR
 - MANUAL STATION, 4th FLOOR
 - MANUAL STATION, 5th FLOOR
 - MANUAL STATION, 6th FLOOR
 - MANUAL STATION, 7th FLOOR
 - MANUAL STATION, 8th FLOOR
 - MANUAL STATION, 9th FLOOR
 - MANUAL STATION, 10th FLOOR
 - MANUAL STATION, 11th FLOOR
 - MANUAL STATION, 12th FLOOR
 - MANUAL STATION, 13th FLOOR
 - MANUAL STATION, 14th FLOOR
 - MANUAL STATION, 15th FLOOR
 - MANUAL STATION, 16th FLOOR
 - MANUAL STATION, 17th FLOOR
 - MANUAL STATION, 18th FLOOR
 - MANUAL STATION, 19th FLOOR
 - MANUAL STATION, 20th FLOOR
 - MANUAL STATION, 21st FLOOR
 - MANUAL STATION, 22nd FLOOR
 - MANUAL STATION, 23rd FLOOR
 - MANUAL STATION, 24th FLOOR
 - MANUAL STATION, 25th FLOOR
 - MANUAL STATION, 26th FLOOR
 - MANUAL STATION, 27th FLOOR
 - MANUAL STATION, 28th FLOOR
 - MANUAL STATION, 29th FLOOR
 - MANUAL STATION, 30th FLOOR
 - MANUAL STATION, 31st FLOOR
 - MANUAL STATION, 32nd FLOOR
 - MANUAL STATION, 33rd FLOOR
 - MANUAL STATION, 34th FLOOR
 - MANUAL STATION, 35th FLOOR
 - MANUAL STATION, 36th FLOOR
 - MANUAL STATION, 37th FLOOR
 - MANUAL STATION, 38th FLOOR
 - MANUAL STATION, 39th FLOOR
 - MANUAL STATION, 40th FLOOR
 - MANUAL STATION, 41st FLOOR
 - MANUAL STATION, 42nd FLOOR
 - MANUAL STATION, 43rd FLOOR
 - MANUAL STATION, 44th FLOOR
 - MANUAL STATION, 45th FLOOR
 - MANUAL STATION, 46th FLOOR
 - MANUAL STATION, 47th FLOOR
 - MANUAL STATION, 48th FLOOR
 - MANUAL STATION, 49th FLOOR
 - MANUAL STATION, 50th FLOOR



HVAC AUTOMATIC FAN SHUTDOWN

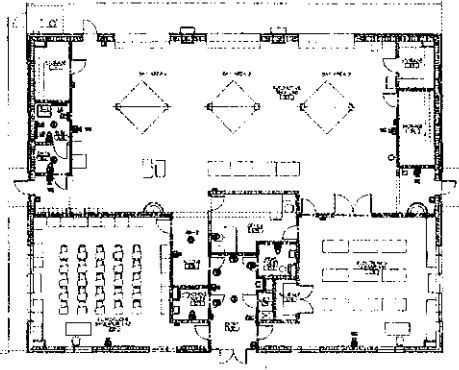
Jumper
Carter
Sease
Architects
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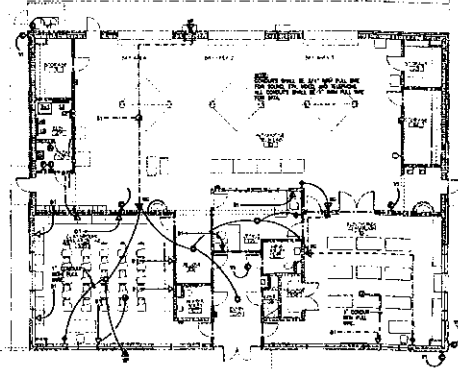
GOLD HILL MIDDLE SCHOOL
FORT MILL SCHOOL DISTRICT
FORT MILL, SOUTH CAROLINA

01002
AUG. 2001
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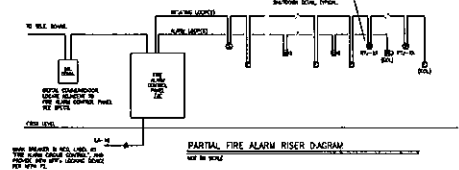


FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



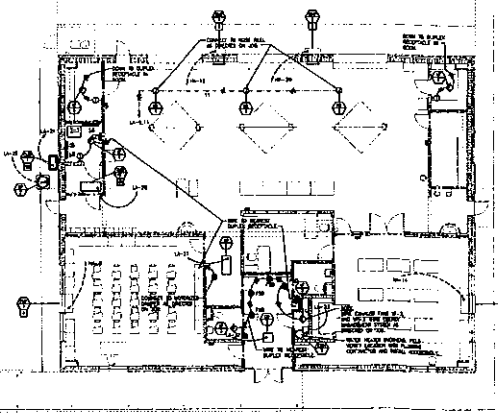
COMMUNICATIONS PLAN
SCALE: 1/8" = 1'-0"

- FIRE ALARM SYSTEM NOTES**
1. ALL WIRING SHALL BE IN RACE AND CONDUIT UNLESS OTHERWISE SPECIFIED. ALL RACE SHALL BE 1/2" RIGID PVC UNLESS OTHERWISE SPECIFIED.
 2. ALL WIRING SHALL BE IN RACE AND CONDUIT UNLESS OTHERWISE SPECIFIED. ALL RACE SHALL BE 1/2" RIGID PVC UNLESS OTHERWISE SPECIFIED.
 3. PROVIDE SCHEDULING OF ALL WIRING LOTS.
 4. THE SYSTEM SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS. THE SYSTEM SHALL BE DESIGNED TO MEET THE REQUIREMENTS OF THE NATIONAL FIRE ALARM ASSOCIATION (NFPA) 72.
 5. THE SYSTEM SHALL BE DESIGNED TO MEET THE REQUIREMENTS OF THE NATIONAL FIRE ALARM ASSOCIATION (NFPA) 72.
 6. THE SYSTEM SHALL BE DESIGNED TO MEET THE REQUIREMENTS OF THE NATIONAL FIRE ALARM ASSOCIATION (NFPA) 72.
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 19. THE SYSTEM SHALL BE DESIGNED TO MEET THE REQUIREMENTS OF THE NATIONAL FIRE ALARM ASSOCIATION (NFPA) 72.
 20. THE SYSTEM SHALL BE DESIGNED TO MEET THE REQUIREMENTS OF THE NATIONAL FIRE ALARM ASSOCIATION (NFPA) 72.



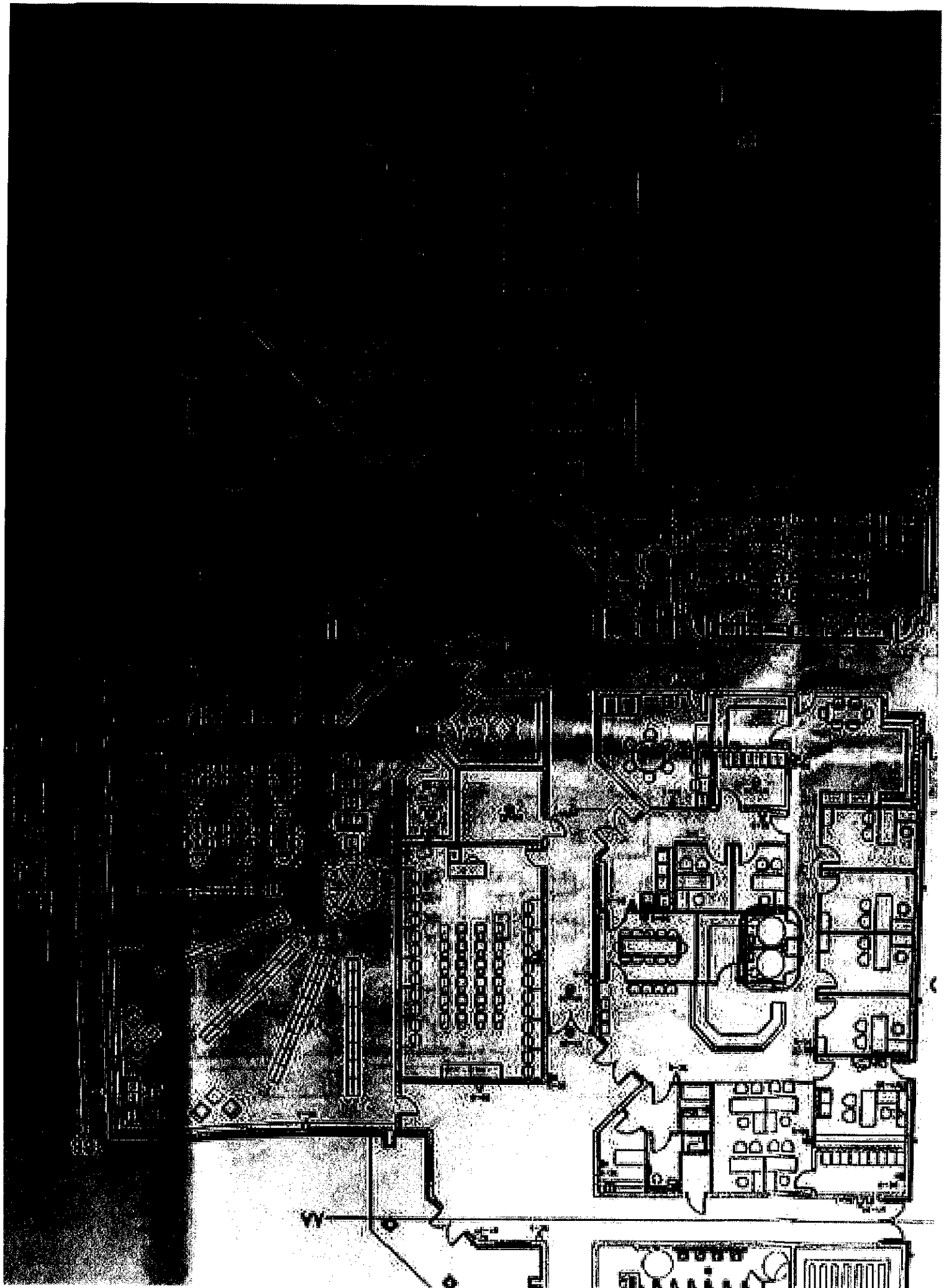
MECHANICAL EQUIPMENT SCHEDULE

ITEM NO.	DESCRIPTION	QTY	UNIT	MANUFACTURER	NOTES
ME-101	ROOF CURB	1	EA	1/2" X 1/2" X 1/2"	
ME-102	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-103	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-104	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-105	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-106	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-107	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-108	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-109	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-110	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-111	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-112	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-113	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-114	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-115	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-116	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-117	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-118	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-119	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	
ME-120	CONDENSATE PUMP	1	EA	1/2" X 1/2" X 1/2"	

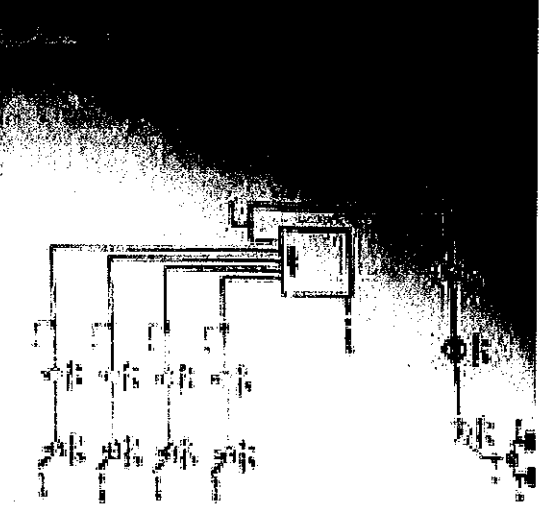
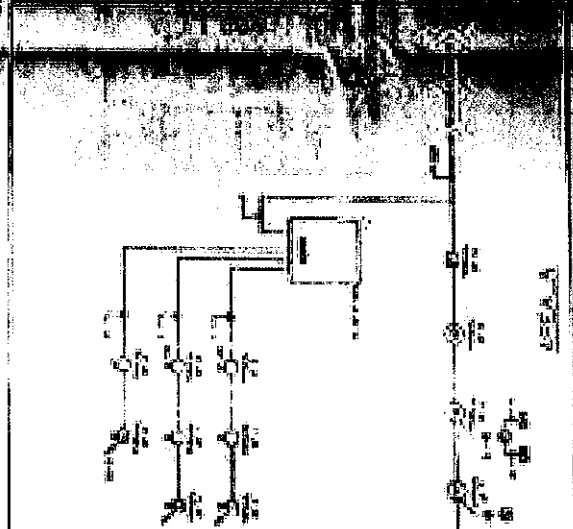


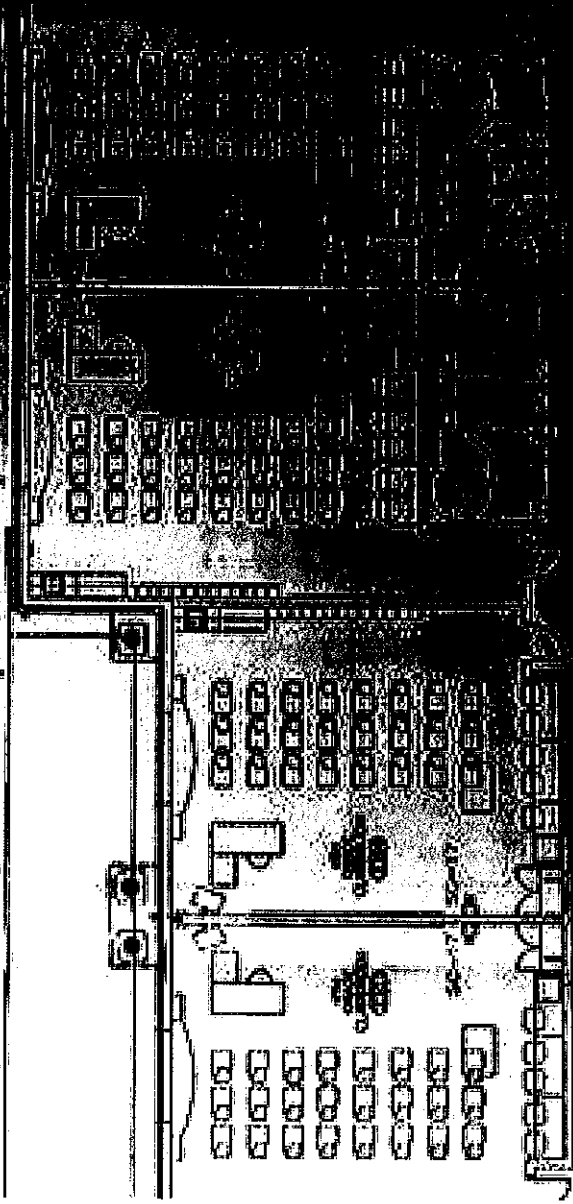
HVAC PLAN
SCALE: 1/8" = 1'-0"

BID SET
sims group



NO.	DESCRIPTION	QTY.	UNIT	PRICE	TOTAL
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