

Keyed Notes for Drawing "QC-Wall Detail:

Symbol #: Additional Note:

- 3 originating from 50A breaker in main wall power panel, connecting through marked terminals in central enclosure. 10 # 12 wires for control and power feed from console to equipment. Two (2) pull strings included for future cables and data cables installed on-site. Flex conduit and wires supplied with projection console from BIG SKY, and connects to supplied connector in central enclosure in trough assembly.
- 8 Masking and control wiring - 3 #12 wires power feed (H,N,G) from trough central enclosure to masking motor behind screen, 5#14 wires from area "F" in central enclosure to masking motor behind screen.
- 11 Amplifier Power Circuitry, fed from 20A 3-phase breaker in main wall power panel, add one (1) additional #12 wire for rack power control. Flex conduit and wires supplied with amplifier rack by BIG SKY, and connects to supplied connector in central enclosure in trough assembly.
- 18 Audio feed cables from Projection console to Sound Rack to be supplied by, routed, and connected by BIG SKY.

GENERAL WIRING NOTES:

- A. All Inter-Theater and sound wiring to be pulled & terminated by contractor.
- B. All Power wiring (including 110, 220, and 220 3-ph) to be pulled & connected by contractor, including terminations in Quick-Connect termination wall box.
- C. Leave 20' "tails" on all wires not terminated.
- D. Interlock cable (Belden 5300FE) to be pulled into Quick-Connect box, leave 4' tails.
- E. Inter-Theater Data / Status System Cables (Belden 9842) to be pulled into Quick-Connect Wall Enclosure, leave 20' tails for continued wire routing into console.
- F. All Internal Sound Rack wiring to be done by Big Sky Personell
- G. FIRE ALARM SYSTEM:
 - 1. Fire alarm system MUST provide an isolated relay / contact set (N.O.) for each console.
 - 2. Fire Alarm contractor must provide & route console Shut-Down 2-cond cable to CTerm Board in Quick-Connect Wall box.
- H. ASSISTED HEARING SYSTEM:
 - 1. Transmitter panel is to be mounted on back theater wall, one (1) fot away from upper left corner of Operator's view window.
 - 2. All cables to be routed through Stub #6 in wall.
 - 3. All wiring & connections to be made by BIG SKY.

Power Requirements for the System:

Console:

50A 3-phase breaker in Wall main power Panel
 Circuits include Projection Console, trough outlets,
 Ventilatiion, Masking
 Lighting (if integral with the Console)

Sound Rack:

20A 3-phase breaker in Main Wall power Panel
 Circuits include all Amplifiers, sound processing
 and distribution equipment.

All other systems feed from specified breakers in Wall main Power panel.

Optical and Ventilation Specifications:

Bulb size:

To determine the correct Xenon bulb for a particular system, a variety of factors, including projector type, lens type, port hole glass and projection throw should be considered. When determining the ratio of screen width and height to bulb size, refer to the following guide:

<u>Screen width</u>	<u>Screen height</u>	<u>Bulb size</u>
Up to 30'	Up to 15'	2000 watt
30'+ to 38'	15'+ to 20'	3000 watt
38'+ to 50'	20'+ to 26'	4000 watt
50'+	27'+	5000 watt or more

Ventilation:

Proper air flow is important to long bulb life and console operation. Minimum ducting diameter is 8", which matches the flange at the top of the console. When determining ventilation requirements, refer to the following guide: (all measurements / readings taken at 8" vent opening in top of console)

<u>Console size</u>	<u>Recommended CFM</u>	(Cubic feet/minute)
1000-2000 watt	600	(Minimum)
3000 watt	750	"
4000 watt	1000	"
7000 watt	1250+	"

Big Sky Industries

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Tolerances	Project Quick Connect Wiring System			
XX=+/- .015 XXX=+/- .005	Title	Additional Notes & Information		
Date	Dwg.#	QC-Wall Detail Notes May 2005		
05/03/05	Scale	N.T.S.	Drawn By	D.R. Approved