

THE CADDY VENTILATOR TESTING, LISTING AND APPROVAL REFERENCES:

NATIONAL FIRE PROTECTION ASSOCIATION
IN ACCORDANCE WITH RECOMMENDATION OF NATIONAL FIRE PROTECTION ASSOCIATION'S NFPA NO. 96 "VAPOR REMOVAL FROM COOKING EQUIPMENT"

NATIONAL SANITATION FOUNDATION
STANDARD #2 - "FOOD SERVICE EQUIPMENT"
ETL, INTERTEK
TESTED UNDER STANDARD U.L. 710 "EXHAUST HOODS FOR COMMERCIAL COOKING EQUIPMENT". ETL LISTED UNDER CONTROL # 3177269

UNIFORM MECHANICAL CODE
SECTION 507 - COMMERCIAL KITCHEN HOODS AND KITCHEN VENTILATION SYSTEMS

THE BOCA NATIONAL MECHANICAL CODE
CHAPTER 5 - KITCHEN EXHAUST EQUIPMENT

STANDARD MECHANICAL CODE (SBCCI)
SECTION 504 - COMMERCIAL HOODS

UNIFORM BUILDING CODE (ICBO)

INTERNATIONAL MECHANICAL CODE (IMC)
SECTION 507 - COMMERCIAL KITCHEN HOODS
EXCLUDES CODE #507.2.1.1, CONSULT FACTORY FOR COMPLIANCE OPTIONS.

NOTE:

K.E.C. MUST VERIFY THE EXACT DIMENSION OF THE COOKING EQUIPMENT FROM EITHER THE WALL OR FROM THE FRONT OF THE HOOD, SO CADDY MAY PROPERLY LOCATE THE FIRE PROTECTION NOZZLES AT TIME-OF-FABRICATION IN THE FACTORY. IF EQUIPMENT IS NOT LOCATED AS SHOWN AND THE DRAWING IS APPROVED FOR FABRICATION, THEN NOZZLES MUST BE RELOCATED AT THE EXPENSE OF OTHERS.

CONTRACTOR NOTE:

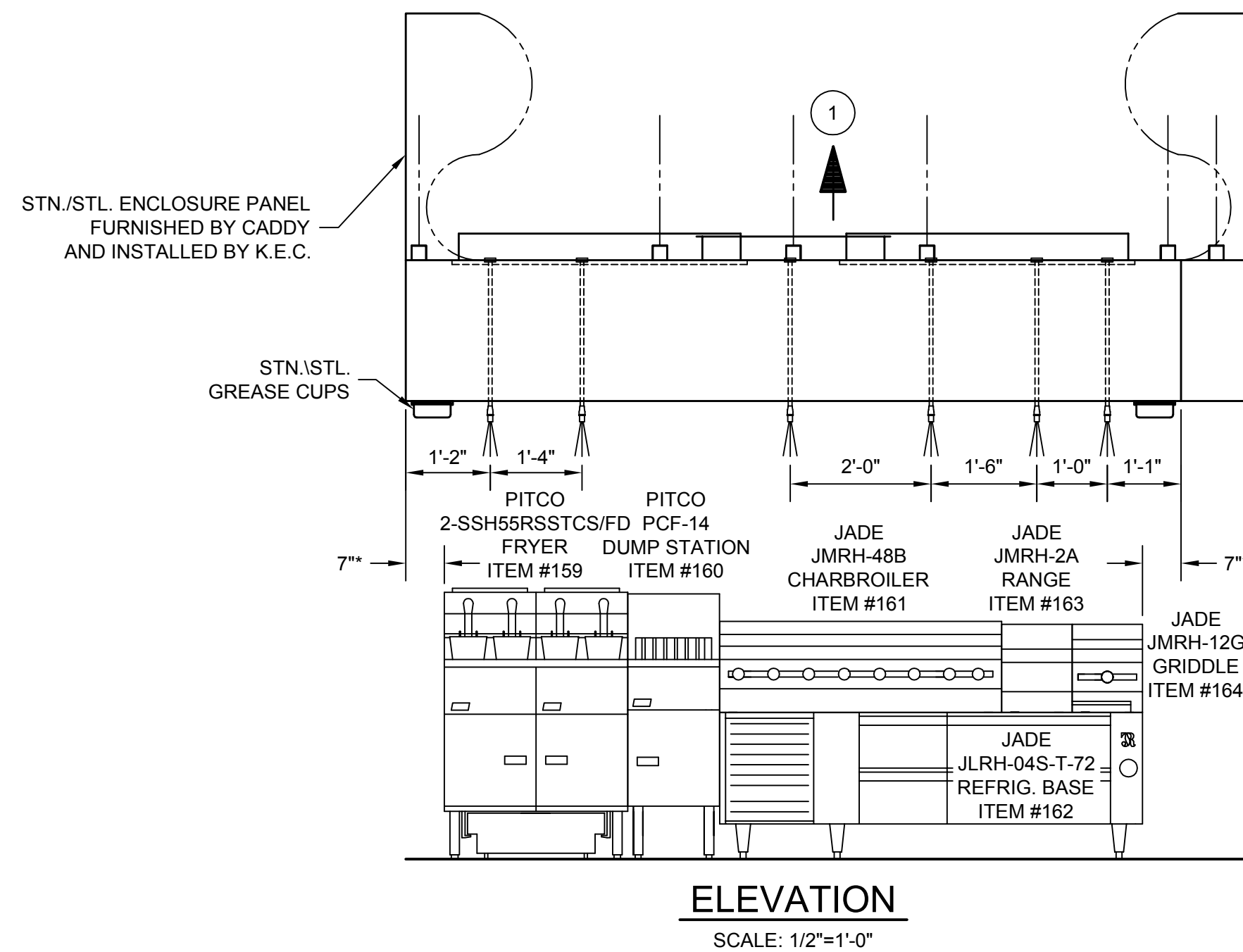
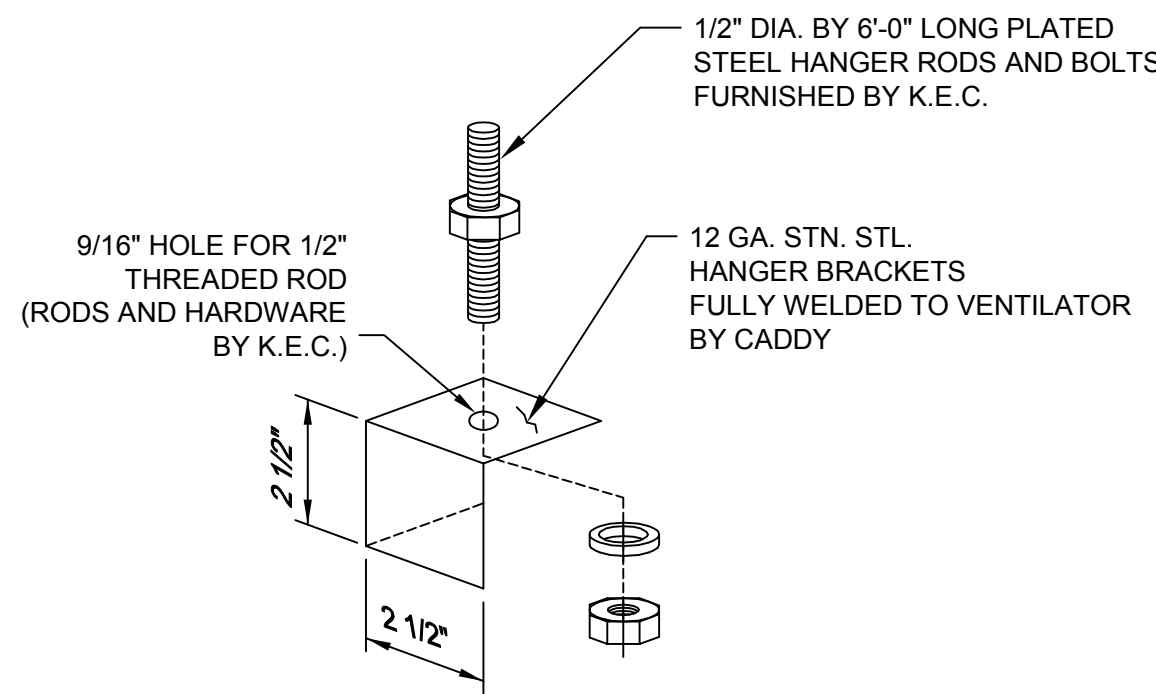
ALLOW SUFFICIENT ACCESS ON TOP OF VENTILATOR TO SERVICE COMPONENTS AND UTILITIES

MAKE-UP AIR NOTE:

AIR TEMPERATURE SHOULD RANGE FROM 60° TO 65°F, BUT MAY BE AS LOW AS 50° F DEPENDING ON AIR VOLUME, DISTRIBUTION, AND INTERNAL HEAT LOAD

HANGER BRACKET DETAIL A-A

SCALE: 1/4"=1"



ELEVATION
SCALE: 1/2"=1'-0"

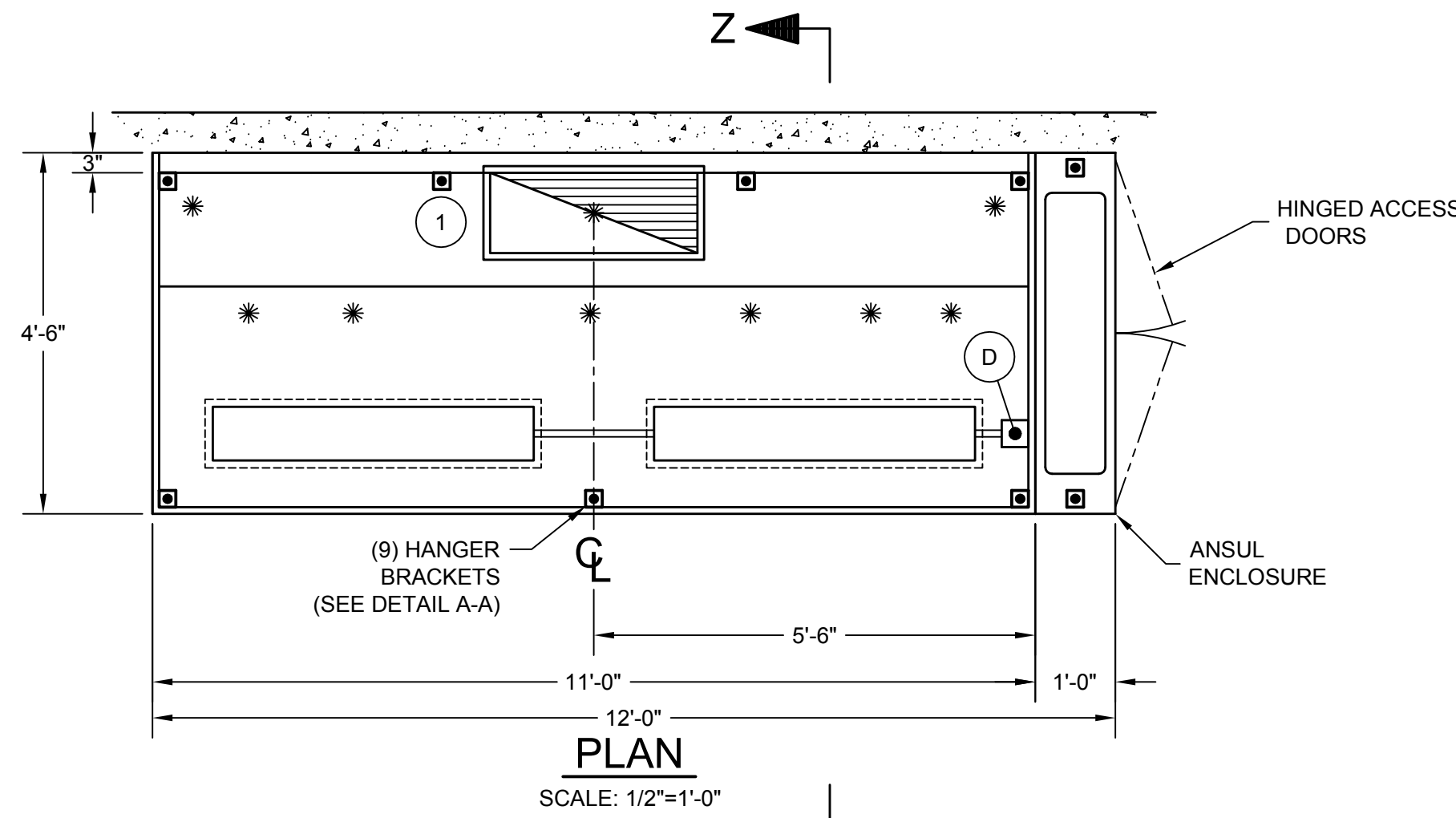
K.E.C. TO VERIFY ALL MAKES AND MODELS OF COOKING EQUIPMENT, REVIEW PLAN FOR PROPER LINE-UP PRIOR TO FABRICATION OF VENTILATORS, AND TO NOTIFY CADDY OF ANY CHANGES.

*** - MINIMUM OVERHANG FROM EDGE OF COOKING EQUIPMENT TO END OF HOOD MUST BE 6"**

INSTALLATION INFORMATION

ALLOW SUFFICIENT ACCESS TO BRING VENTILATOR INTO KITCHEN AREA MAXIMUM VENTILATOR DIMENSIONS 12'-0" LONG x 4'-6" WIDE x 29" HIGH ESTIMATED TOTAL HANGING WEIGHT: 1,050 LBS.

VENTILATOR TO BE SHIPPED IN (1) UNIT. ALL PLUMBING AND ELECTRICAL DISCONNECTED FOR SHIPMENT. RECONNECTED IN FIELD BY PLUMBING AND ELECTRICAL CONTRACTORS.



PLAN
SCALE: 1/2"=1'-0"

ELECTRICAL NOTES:

1. LIGHT FIXTURES, VAPORPROOF, U.L. LISTED, FURNISHED, INSTALLED AND WIRED TO J-BOX BY CADDY. RECONNECTED ON JOBSITE BY ELECTRICAL CONTRACTOR.
2. LIGHT SWITCH FOR LIGHT FIXTURE WITH 120 VOLTS A.C. SERVICE BY ELECTRICAL CONTRACTOR.

TOTAL EXHAUST : 3,850 C.F.M.

1 12" X 31" EXHAUST DUCT
3,850 C.F.M. @ 1.60" S.P.

GENERAL NOTES

EXHAUST AIR REQUIREMENTS:

1. EXHAUST C.F.M. BASED ON 350 C.F.M. PER LINEAR FOOT.
2. EXHAUST STATIC PRESSURE IS 1.60" W.G. AT DUCT TAKE-OFF COLLAR. TOTAL DUCT STATIC MUST BE ADDED. STATIC BASED ON OPERATION AT MEAN SEA LEVEL.
3. DUCT SIZE BASED ON 1,500 F.P.M.

EXHAUST FAN REQUIREMENTS:

1. TYPE - INDUCED DRAFT, SQUIRREL CAGE, BACKWARD INCLINED BLADES. EXHAUST FAN DISCHARGE SHOULD BE VERTICAL, AWAY FROM AIR INTAKES. FAN FURNISHED BY OTHERS.
2. EXHAUST FAN MUST BE FURNISHED WITH A MAGNETIC STARTER WITH 120 VOLT HOLDING COIL. STARTER FURNISHED BY OTHERS.

MAKE-UP AIR REQUIREMENTS:

1. AIR EXHAUSTED FROM KITCHEN MUST BE REPLACED - WITH DISTRIBUTION CONTROLLED TO PROVIDE FOR TOTAL KITCHEN VENTILATION AND TO ESTABLISH NECESSARY AIR PATTERNS FOR PROPER PERFORMANCE OF THE VENTILATORS. AIR DISTRIBUTION SYSTEMS SHALL BE IN ACCORDANCE WITH ALL GOVERNING CODES.
2. MAKE-UP AIR MUST BE TEMPERED-HEATED OR COOLED-CONSISTENT WITH THE STYLE OF HOOD, HEAT LOAD, CLIMATIC CONDITIONS AND APPLICABLE CODES.

INSTALLATION:

1. VENTILATORS TO BE INSTALLED IN ACCORDANCE WITH ALL CODES. CONTRACTORS MUST REVIEW APPLICABLE CODES WITH CODE AUTHORITIES BEFORE APPROVING DRAWINGS FOR FABRICATION. SPECIAL ATTENTION MUST BE GIVEN TO CODE REGULATIONS RELATIVE TO CLEARANCES FROM SURROUNDING COMBUSTIBLE CONSTRUCTION (WALL, CEILINGS, ETC.).
2. VENTILATORS ARE NOT TO BE INSTALLED IN AREAS MEANT TO HANDLE ENVIRONMENTAL AIR.
3. ALL DUCTWORK BEYOND VENTILATOR DUCT TAKE-OFF COLLAR TO BE PROVIDED AND INSTALLED BY OTHERS, IN ACCORDANCE WITH JURISDICTIONAL CODES. DUCTS MUST BE MECHANICALLY STRONG, GREASE AND WATER TIGHT.
4. MOUNTING RODS FURNISHED AND INSTALLED BY OTHERS.

CONSTRUCTION:

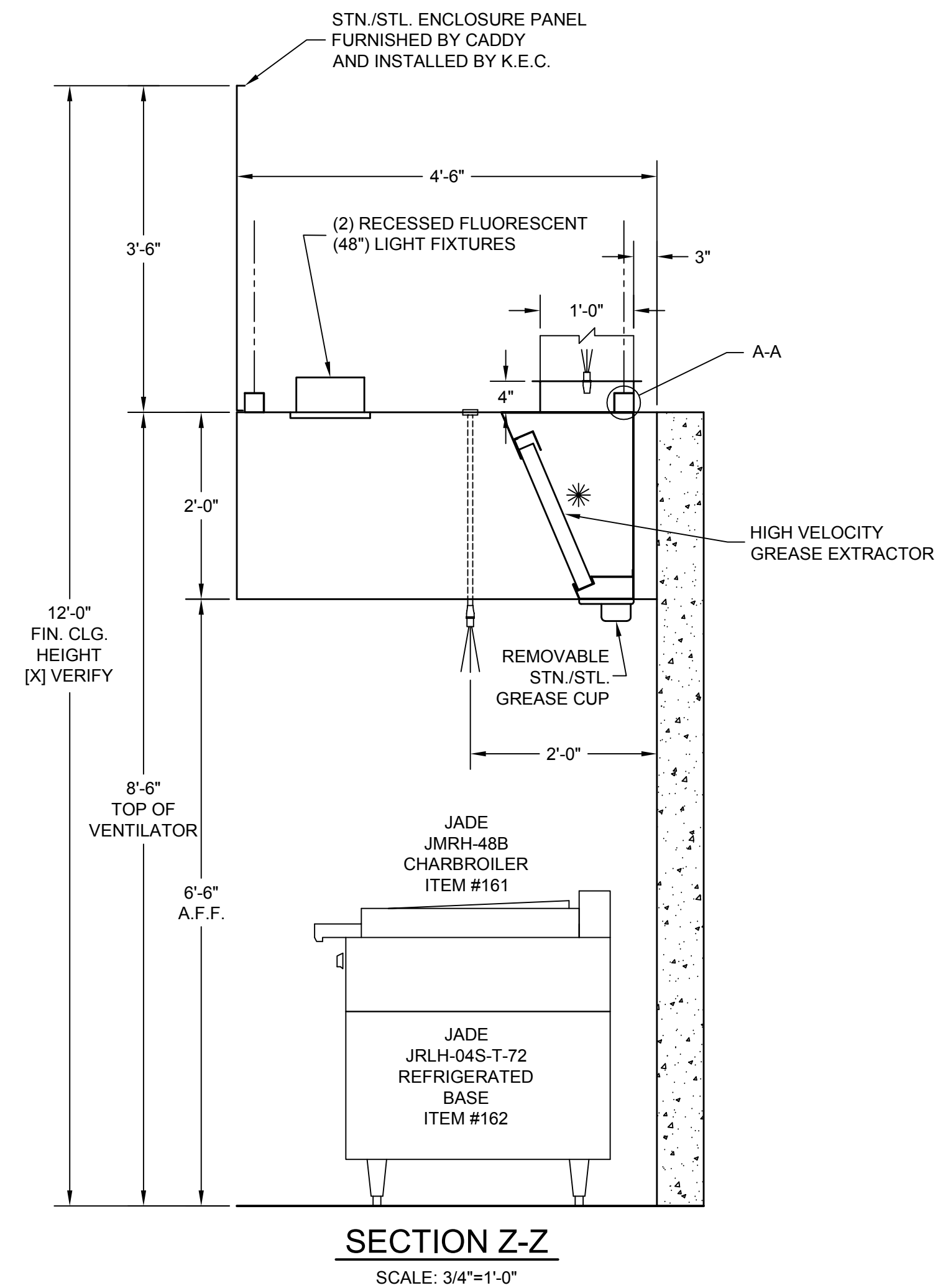
1. VENTILATORS TO BE MANUFACTURED IN STRICT ACCORDANCE WITH CADDY SPECIFICATIONS.
2. VENTILATORS CONSTRUCTED OF 18 GA. STAINLESS STEEL.

FIRE PROTECTION:

1. SURFACE FIRE PROTECTION PROVIDED AND INSTALLED BY CADDY (ANSUL R-102).
2. CAUTION: SURFACE FIRE PROTECTION SYSTEM INSTALLATION MUST BE COORDINATED WITH CADDY TO PREVENT SYSTEMS INTERFERENCE WITH VENTILATOR'S OPERATION/PERFORMANCE. IMPROPER INSTALLATION MAY VOID LISTINGS OF THE EQUIPMENT.
3. IMPORTANT NOTE: NFPA 96 REQUIRES THAT ALL GAS AND ELECTRIC COOKING EQUIPMENT THAT IS PROTECTED BY A SURFACE FIRE PROTECTION SYSTEM MUST AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE SYSTEM.

ELECTRICAL REQUIREMENTS:

1. LIGHT FIXTURE BULBS PROVIDED AND INSTALLED BY OTHERS.



SECTION Z-Z
SCALE: 3/4"=1'-0"



ROUGH-IN SCHEDULE			REVISIONS			
SYM	QTY	DESCRIPTION	REV	DATE	BY	REMARKS
D	1	120V, 60HZ, 1PH, 0.16 K.W. CONNECTED LOAD	A	4-18-12	DRA	ADDED MUA, AN ANSUL BOX, AND A 12" RANGE
			B	5-31-12	DRA	REMOVED CEILING SUPPLY PLENUMS
			C	11-2-12	DRA	REVISED PER RECEIVED P.O.
			D	1-7-13	DRA	NO CHANGES
			E	01/14/13	DME	REVISED FOR FABRICATION PER "APPROVED AS NOTED" DRAWING RECEIVED ON 01/14/13.

CADDY CORPORATION	
509 Sharptown Road Bridgeport, NJ 08014-0345 Tel: 856-467-4222 Internet: www.caddycorp.com	P.O. Box 345 Tel: 856-467-4222 Fax: 856-467-5511
EQUIPMENT SCHEDULE	
SHBC-C-W-132-ND-54	
CADDY NO. 10710-3	ITEM NO. 165
JOB: READING HOSPITAL LOC: READING, PA CUST: SINGER EQUIPMENT CUST#: 03304717	
DATE: 2-21-12	SCALE: AS NOTED
DR BY: BJW	APP'D BY: <i>BJW</i>
DWG# D-1-10710	
SHT 1	OF 10

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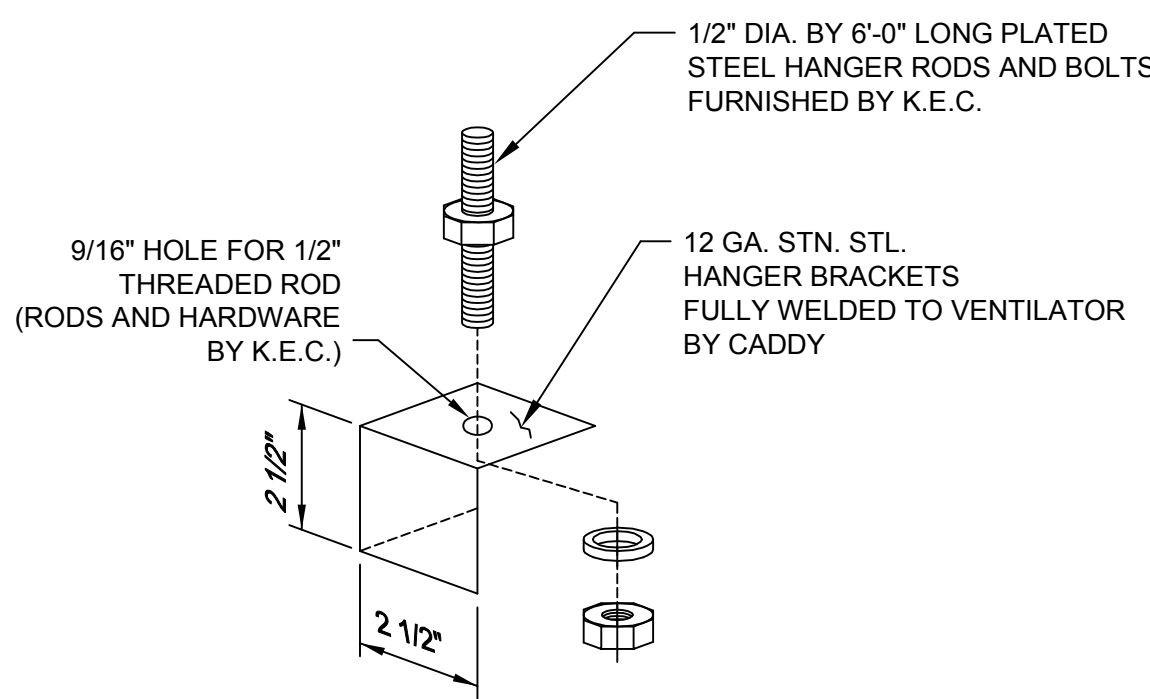
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CONTRACTOR NOTE:

ALLOW SUFFICIENT ACCESS ON TOP OF VENTILATOR TO SERVICE COMPONENTS AND UTILITIES

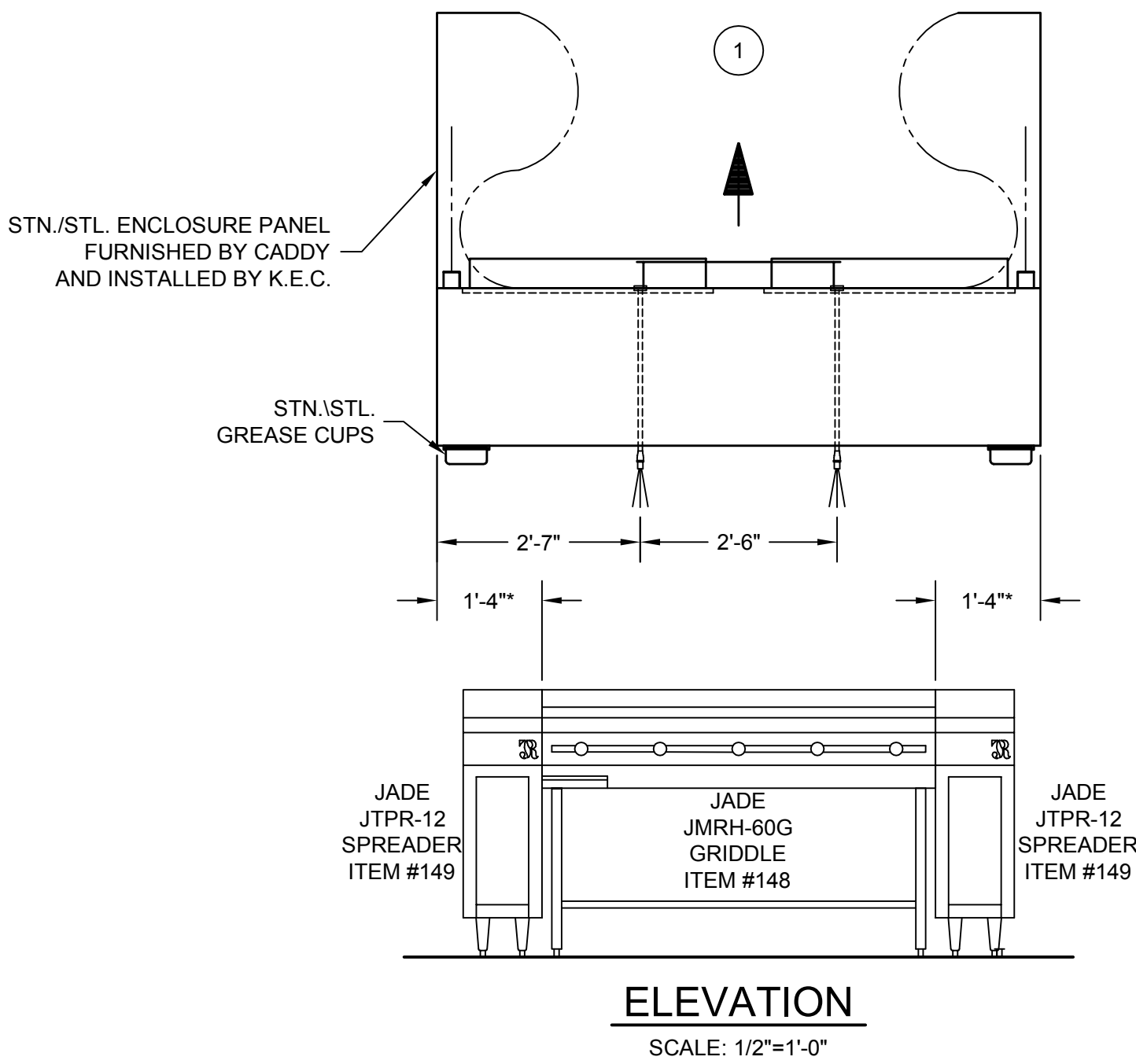
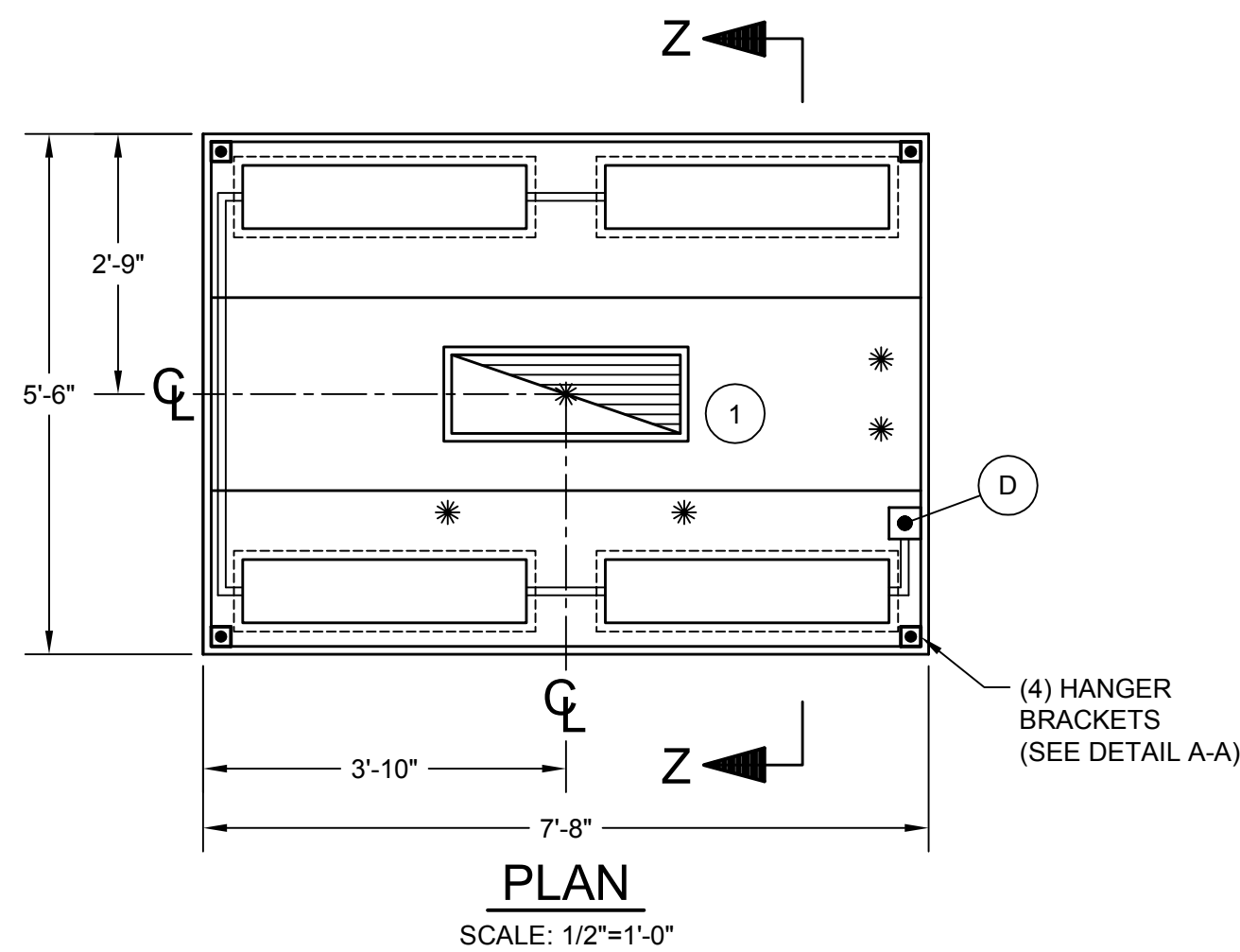
MAKE-UP AIR NOTE:

AIR TEMPERATURE SHOULD RANGE FROM 60° TO 65°F, BUT MAY BE AS LOW AS 50° F DEPENDING ON AIR VOLUME, DISTRIBUTION, AND INTERNAL HEAT LOAD



HANGER BRACKET DETAIL A-A

SCALE: 1/4"=1"



ELEVATION

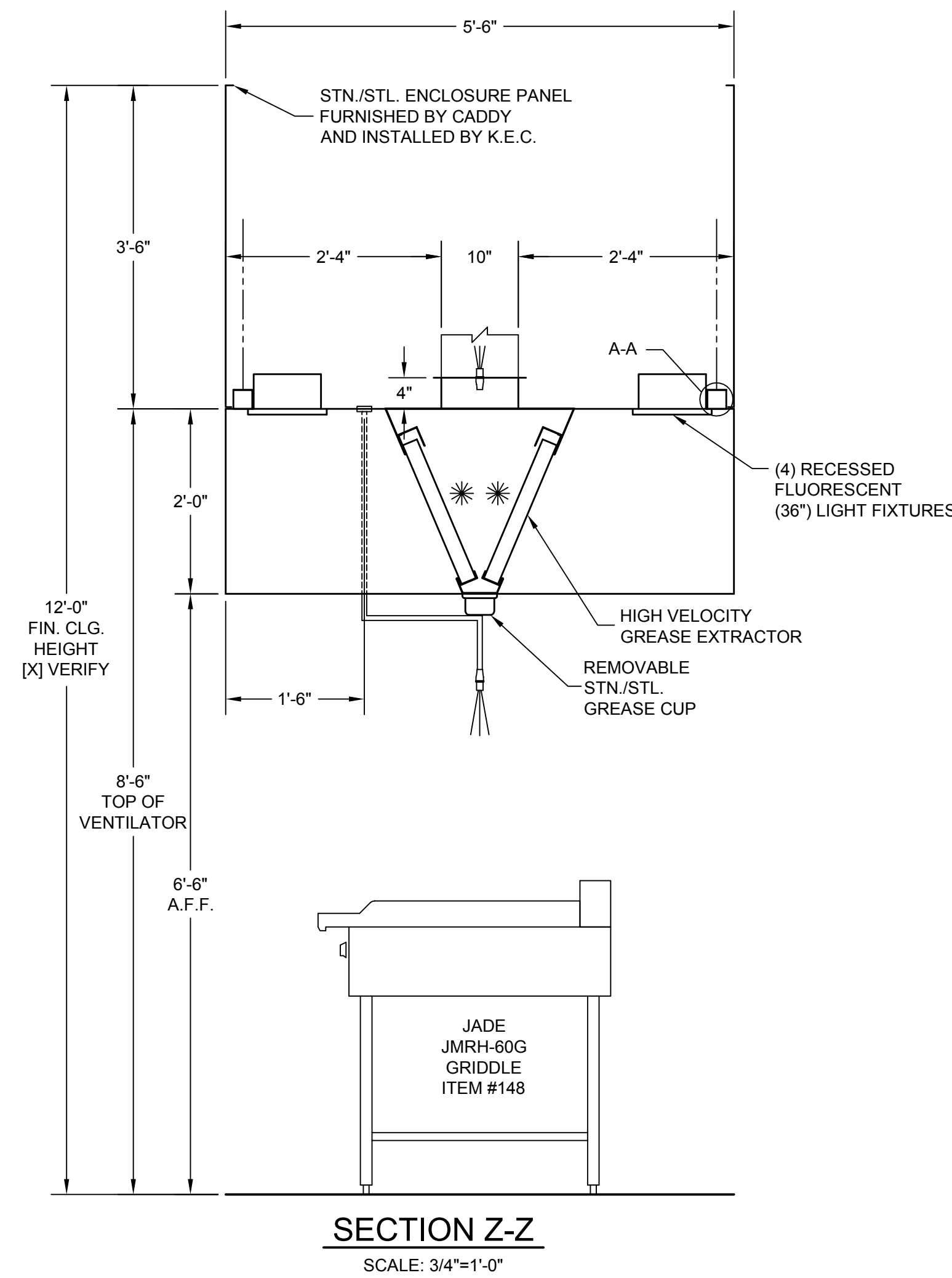
SCALE: 1/2"=1'-0"

ELECTRICAL NOTES:

1. LIGHT FIXTURES, VAPORPROOF, U.L. LISTED, FURNISHED, INSTALLED AND WIRED TO J-BOX (1) BY CADDY. RECONNECTED ON JOBSITE BY ELECTRICAL CONTRACTOR.
2. LIGHT SWITCH FOR LIGHT FIXTURE WITH 120 VOLTS A.C. SERVICE BY ELECTRICAL CONTRACTOR.

TOTAL EXHAUST : 3,066 C.F.M.

(1) 10" X 29" EXHAUST DUCT
3,066 C.F.M. @ 1.60" S.P.



SECTION Z-Z

SCALE: 3/4"=1'-0"

GENERAL NOTES

EXHAUST AIR REQUIREMENTS:

1. EXHAUST C.F.M. BASED ON 400 C.F.M. PER LINEAR FOOT.
2. EXHAUST STATIC PRESSURE IS 1.60" W.G. AT DUCT TAKE-OFF COLLAR. TOTAL DUCT STATIC MUST BE ADDED. STATIC BASED ON OPERATION AT MEAN SEA LEVEL.
3. DUCT SIZE BASED ON 1,500 F.P.M.

EXHAUST FAN REQUIREMENTS:

1. TYPE - INDUCED DRAFT, SQUIRREL CAGE, BACKWARD INCLINED BLADES. EXHAUST FAN DISCHARGE SHOULD BE VERTICAL, AWAY FROM AIR INTAKES. FAN FURNISHED BY OTHERS.
2. EXHAUST FAN MUST BE FURNISHED WITH A MAGNETIC STARTER WITH 120 VOLT HOLDING COIL. STARTER FURNISHED BY OTHERS.

MAKE-UP AIR REQUIREMENTS:

1. AIR EXHAUSTED FROM KITCHEN MUST BE REPLACED - WITH DISTRIBUTION CONTROLLED TO PROVIDE FOR TOTAL KITCHEN VENTILATION AND TO ESTABLISH NECESSARY AIR PATTERNS FOR PROPER PERFORMANCE OF THE VENTILATORS. AIR DISTRIBUTION SYSTEMS SHALL BE IN ACCORDANCE WITH ALL GOVERNING CODES.
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INSTALLATION:

1. VENTILATORS TO BE INSTALLED IN ACCORDANCE WITH ALL CODES. CONTRACTORS MUST REVIEW APPLICABLE CODES WITH CODE AUTHORITIES BEFORE APPROVING DRAWINGS FOR FABRICATION. SPECIAL ATTENTION MUST BE GIVEN TO CODE REGULATIONS RELATIVE TO CLEARANCES FROM SURROUNDING COMBUSTIBLE CONSTRUCTION (WALL, CEILINGS, ETC.).
2. VENTILATORS ARE NOT TO BE INSTALLED IN AREAS MEANT TO HANDLE ENVIRONMENTAL AIR.
3. ALL DUCTWORK BEYOND VENTILATOR DUCT TAKE-OFF COLLAR TO BE PROVIDED AND INSTALLED BY OTHERS, IN ACCORDANCE WITH JURISDICTIONAL CODES. DUCTS MUST BE MECHANICALLY STRONG, GREASE AND WATER TIGHT.
4. MOUNTING RODS FURNISHED AND INSTALLED BY OTHERS.

CONSTRUCTION:

1. VENTILATORS TO BE MANUFACTURED IN STRICT ACCORDANCE WITH CADDY SPECIFICATIONS.
2. VENTILATORS CONSTRUCTED OF 18 GA. STAINLESS STEEL.

FIRE PROTECTION:

1. SURFACE FIRE PROTECTION PROVIDED AND INSTALLED BY CADDY (ANSUL R-102).
2. CAUTION: SURFACE FIRE PROTECTION SYSTEM INSTALLATION MUST BE COORDINATED WITH CADDY TO PREVENT SYSTEMS INTERFERENCE WITH VENTILATOR'S OPERATION/PERFORMANCE. IMPROPER INSTALLATION MAY VOID LISTINGS OF THE EQUIPMENT.
3. IMPORTANT NOTE: NFPA 96 REQUIRES THAT ALL GAS AND ELECTRIC COOKING EQUIPMENT THAT IS PROTECTED BY A SURFACE FIRE PROTECTION SYSTEM MUST AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE SYSTEM.

ELECTRICAL REQUIREMENTS:

1. LIGHT FIXTURE BULBS PROVIDED AND INSTALLED BY OTHERS.



ROUGH-IN SCHEDULE			REVISIONS			
SYM	QTY	DESCRIPTION	REV	DATE	BY	REMARKS
D	1	120V, 60HZ, 1PH, 0.32 K.W. CONNECTED LOAD	A	4-18-12	DRA	ADDED MUA AND REMOVED A 12" RANGE
			B	5-31-12	DRA	REMOVED CEILING SUPPLY PLENUMS
			C	11-2-12	DRA	REVISED PER RECEIVED P.O.
			D	1-7-13	DRA	DECREASED HOOD, CFM, AND DUCT SIZE; REVISED TO FLUORESCENT LIGHTS
			E	01/14/13	DME	REVISED FOR FABRICATION PER "APPROVED AS NOTED" DRAWING RECEIVED ON 01/14/13.

EQUIPMENT SCHEDULE	
SHBC-C-II-92-ND-66	
CADDY NO. 10710-2	ITEM NO. 151
JOB: READING HOSPITAL LOC: READING, PA CUST: SINGER EQUIPMENT CUST#: 03304717	

DATE	2-21-12	SCALE	AS NOTED
DR BY	BJW	APPD BY	BJW

K.E.C. TO VERIFY ALL MAKES AND MODELS OF COOKING EQUIPMENT, REVIEW PLAN FOR PROPER LINE-UP PRIOR TO FABRICATION OF VENTILATORS, AND TO NOTIFY CADDY OF ANY CHANGES.

*** - MINIMUM OVERHANG FROM EDGE OF COOKING EQUIPMENT TO END OF HOOD MUST BE 6"**

INSTALLATION INFORMATION

ALLOW SUFFICIENT ACCESS TO BRING VENTILATOR INTO KITCHEN AREA MAXIMUM VENTILATOR DIMENSIONS 7'-8" LONG x 5'-6" WIDE x 29" HIGH ESTIMATED TOTAL HANGING WEIGHT: 690 LBS.

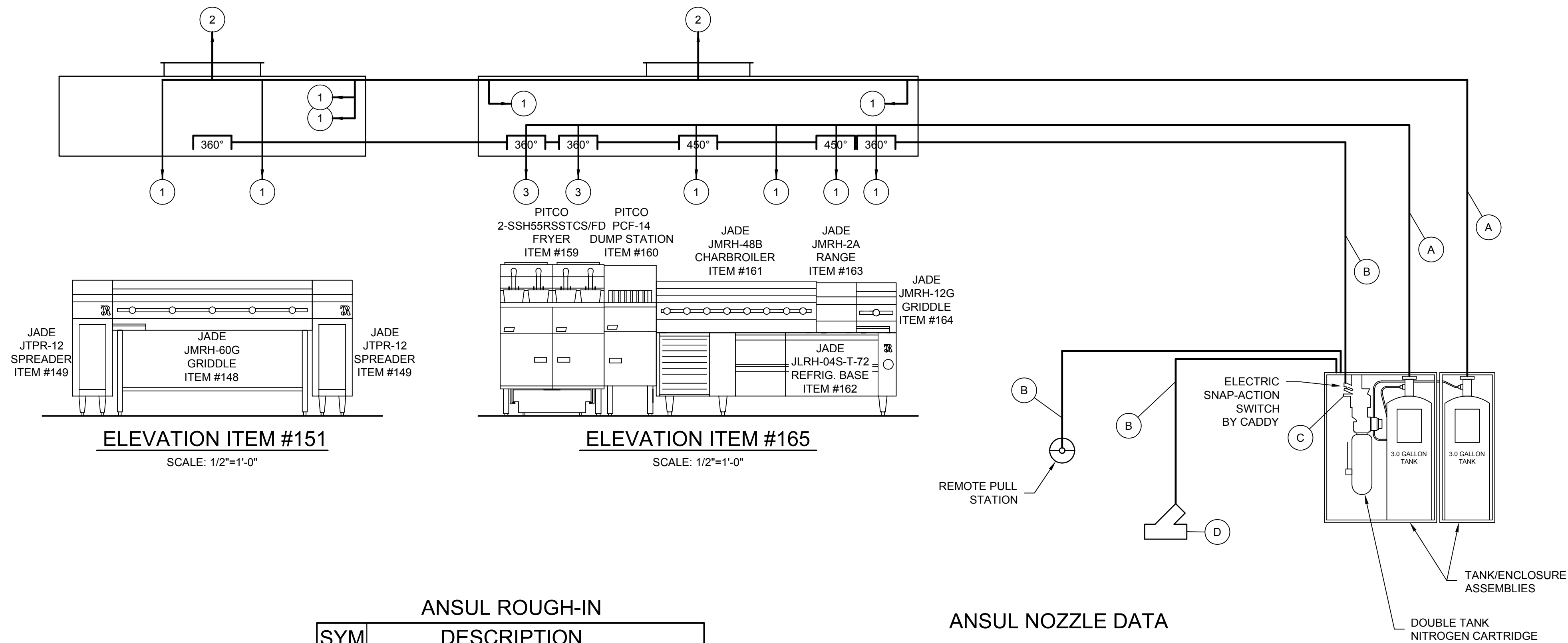
VENTILATOR TO BE SHIPPED IN (1) UNIT. ALL PLUMBING AND ELECTRICAL DISCONNECTED FOR SHIPMENT. RECONNECTED IN FIELD BY PLUMBING AND ELECTRICAL CONTRACTORS.

GENERAL CONTRACT CONDITIONS

ELECTRICAL WORK DONE BY CADDY CORPORATION IS EXECUTED IN COMPLIANCE WITH STANDARDS PUBLISHED BY THE UNDERWRITER'S LABORATORIES, INC. INsofar AS APPLICABLE, AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC). CADDY CORPORATION DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE REQUIREMENTS OF ANY REGIONAL AND/OR LOCAL CODES THAT ADD OR DEVIATED FROM THE ACCEPTED STANDARDS OF THE ABOVE AGENCIES.

ANY FIELD WORK RELATING TO THE MODIFICATION OF ELECTRIC OR PLUMBING SYSTEMS, TO MEET REGIONAL OR LOCAL CODE REQUIREMENTS, IS TO BE DONE BY OTHERS AND WITHOUT BACK CHARGES TO CADDY CORPORATION, UNLESS THESE CONDITIONS WERE PREVIOUSLY BROUGHT TO OUR ATTENTION AND ARE EXPRESSLY INCLUDED IN OUR WRITTEN QUOTATION.

ALL WIRING AND PLUMBING AT THE JOB SITE IS THE RESPONSIBILITY OF OTHERS. EQUIPMENT WILL BE CONSTRUCTED IN ACCORDANCE WITH OUR DRAWING(S) WHICH MUST BE APPROVED PRIOR TO FABRICATION. ANY SUBSEQUENT CHANGES REQUIRED MUST BE SUBMITTED TO US IN WRITING AND ACKNOWLEDGED ON OUR STANDARD FORM.

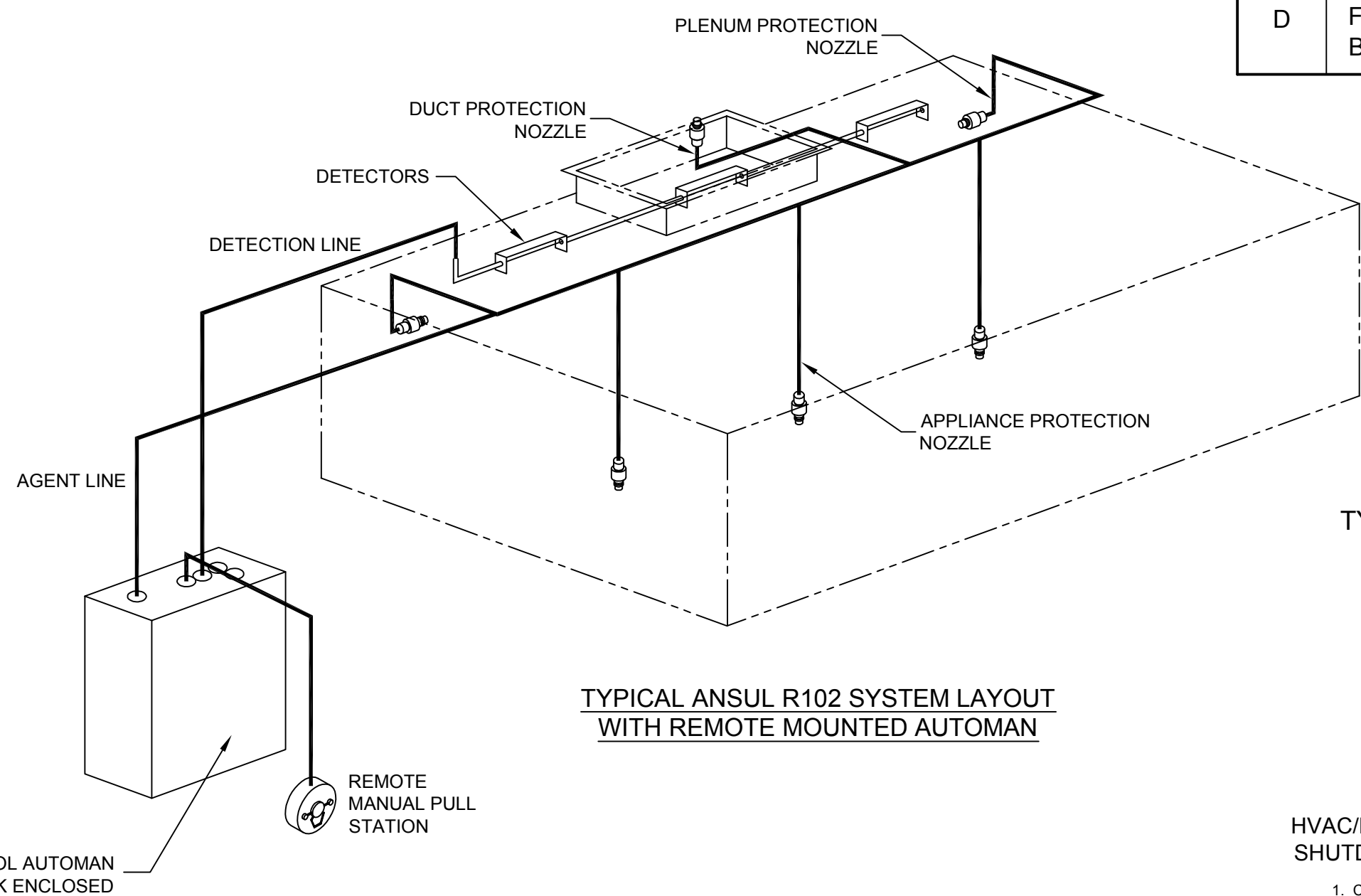


ANSUL ROUGH-IN

SYM	DESCRIPTION
A	3/8" SCH 40 BLACK IRON PIPE. ALL EXPOSED PIPING TO BE CHROME PLATED OR STN./STL.
B	1/2" EMT CONDUIT
C	MICRO SWITCH FOR ELECTRIC SHUT-DOWN AND/OR ALARM BY CADDY WIRING BY E.C.
D	2" MECHANICAL TYPE GAS VALVE FURNISHED BY CADDY AND INSTALLED BY P.C. ([] VERIFY SIZE).

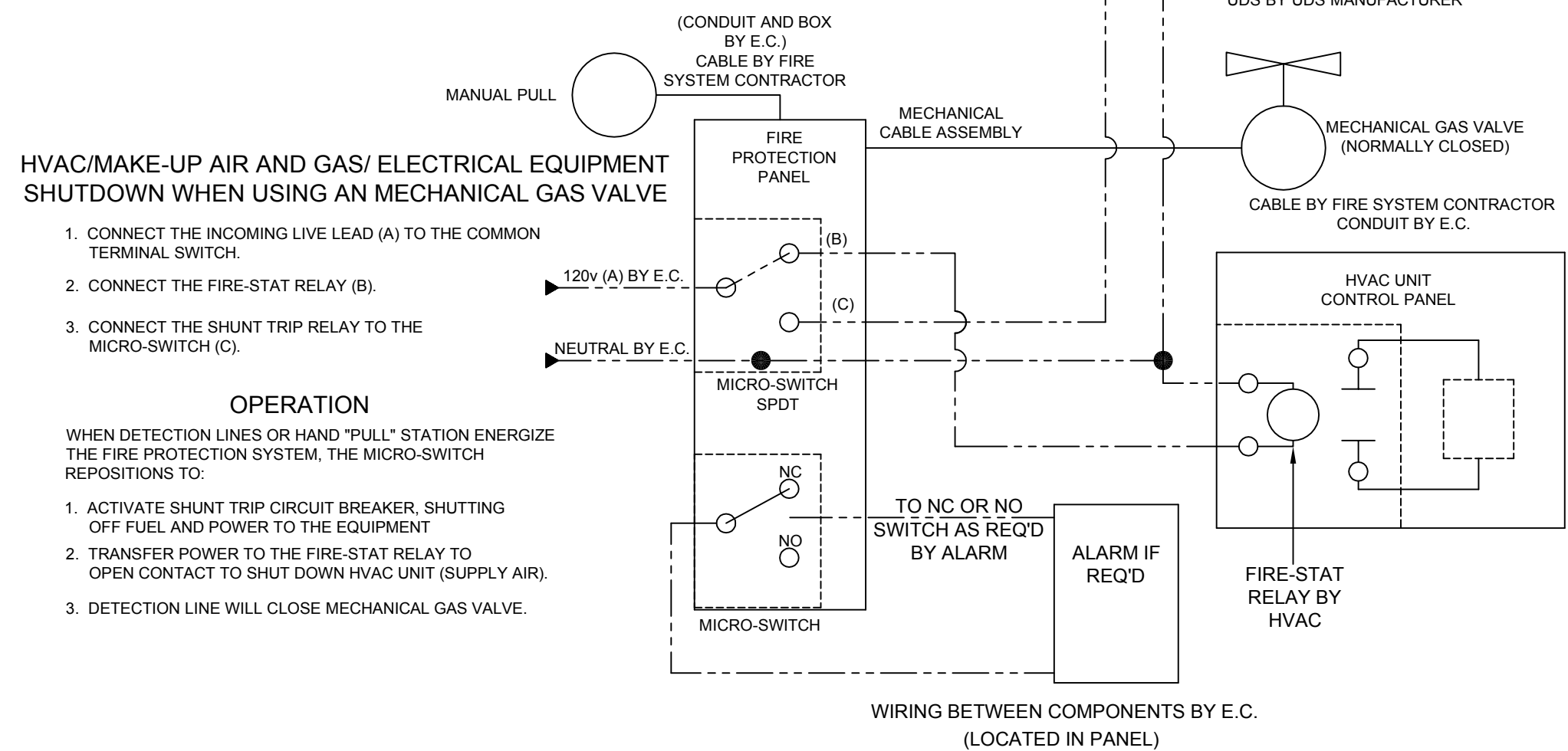
ANSUL NOZZLE DATA

SYM	QTY	DESCRIPTION	FLOW POINTS EACH	MIN.-MAX. HEIGHT ABOVE HAZARD
1	10	ANSUL #1N	1	30"-40" (RANGE) 35"-40" (GRIDDLE) 15"-40" (CHARBROILER)
2	2	ANSUL #2W	2	
3	2	ANSUL #3N	3	21"-34"



ANSUL R-102 3/3 SYSTEM
FOR VENTILATOR ITEMS #151 & 165

TYPICAL WET CHEMICAL FIRE PROTECTION SYSTEM INTERLOCK



INSTALLATION INFORMATION

ALLOW SUFFICIENT AREA TO MOUNT ANSUL ON CLOSEST STRUCTURAL WALL TO VENTILATOR
MAXIMUM ANSUL ENCLOSURE DIMENSIONS
26" LONG x 7 1/2" DEEP x 23 1/2" HIGH
ESTIMATED TOTAL HANGING WEIGHT: 100 LBS.
ENCLOSURE MOUNTING HEIGHT 7'-0"



UNDERWRITERS LABORATORIES, INC.
TESTED UNDER STANDARD U.L. 300 "FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF RESTAURANT COOKING AREAS".



GENERAL CONTRACT CONDITIONS

ELECTRICAL WORK DONE BY CADDY CORPORATION IS EXECUTED IN COMPLIANCE WITH STANDARDS PUBLISHED BY THE UNDERWRITER'S LABORATORIES, INC. INsofar AS APPLICABLE, AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC). CADDY CORPORATION DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE REQUIREMENTS OF ANY REGIONAL AND/OR LOCAL CODES THAT ADD OR DEVIATE FROM THE ACCEPTED STANDARDS OF THE ABOVE AGENCIES. ANY FIELD WORK RELATING TO THE MODIFICATION OF ELECTRIC OR PLUMBING SYSTEMS, TO MEET REGIONAL OR LOCAL CODE REQUIREMENTS, IS TO BE DONE BY OTHERS AND WITHOUT BACK CHARGES TO CADDY CORPORATION, UNLESS THESE CONDITIONS WERE PREVIOUSLY BROUGHT TO OUR ATTENTION AND ARE EXPRESSLY INCLUDED IN OUR WRITTEN QUOTATION. ALL WIRING AND PLUMBING AT THE JOB SITE IS THE RESPONSIBILITY OF OTHERS. EQUIPMENT WILL BE CONSTRUCTED IN ACCORDANCE WITH OUR DRAWING(S) WHICH MUST BE APPROVED PRIOR TO FABRICATION. ANY SUBSEQUENT CHANGES REQUIRED MUST BE SUBMITTED TO US IN WRITING AND ACKNOWLEDGED ON OUR STANDARD FORM.

REVISIONS			
REV	DATE	BY	REMARKS
A	4-18-12	DRA	REVISED ANSUL DROPS PER CHANGED EQUIPMENT
B	5-31-12	DRA	NO CHANGES
C	11-2-12	DRA	REVISED PER RECEIVED P.O.
D	1-7-13	DRA	DECREASED DUCT SIZE OF ITEM # 151
E	01/14/13	DME	REVISED FOR FABRICATION PER "APPROVED AS NOTED" DRAWING RECEIVED ON 01/14/13.

CADDY CORPORATION	
509 Sharptown Road Bridgeport, NJ 08014-0345 Tel: 856-467-4222 Internet: www.caddycorp.com	P.O. Box 345 Fax: 856-467-5511
EQUIPMENT SCHEDULE	
ANSUL R-102 3/3	
CADDY NO. 10710-2	ITEM NO. 151A
JOB: READING HOSPITAL LOC: READING, PA CUST: SINGER EQUIPMENT CUST#: 03304717	
DATE: 2-21-12	SCALE: AS NOTED
DR BY: BJW	APP'D BY: <i>BJW</i>
DWG# D-1-10710	
SHT 3 OF 10	

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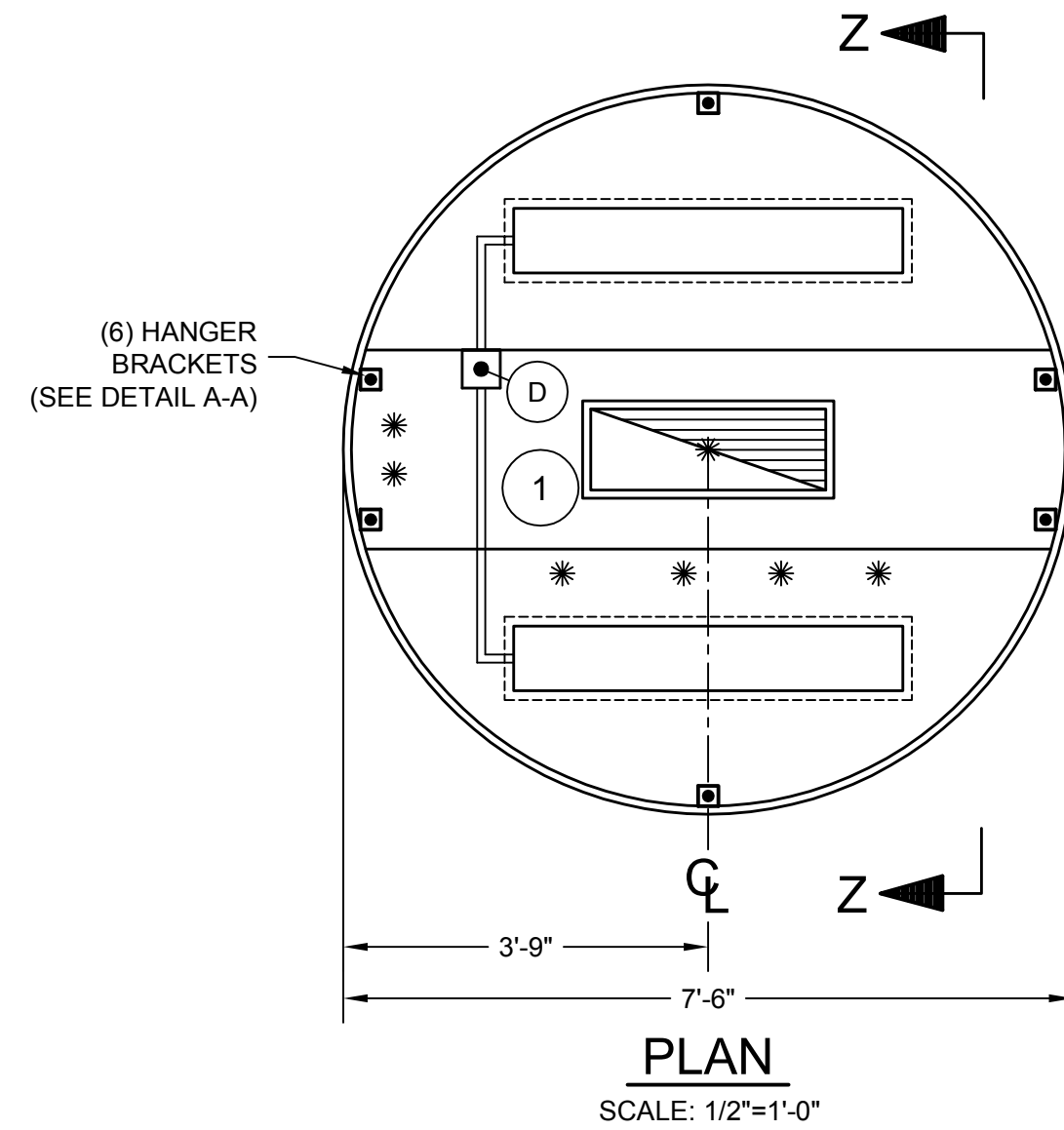
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NATIONAL SANITATION FOUNDATION
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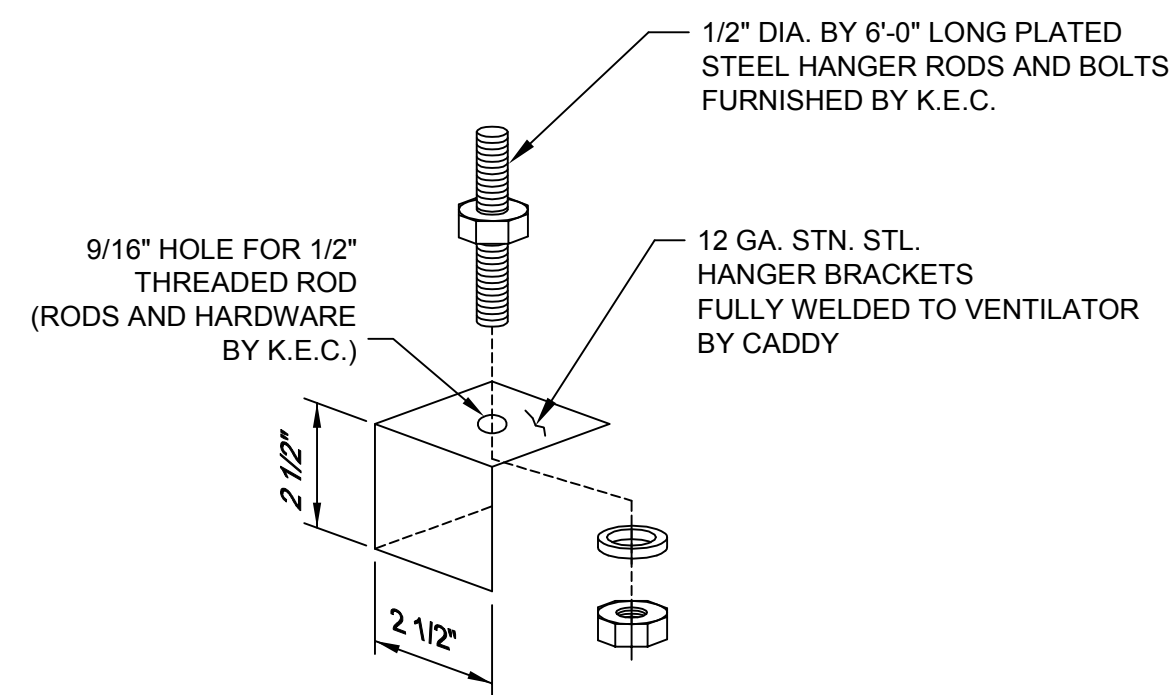
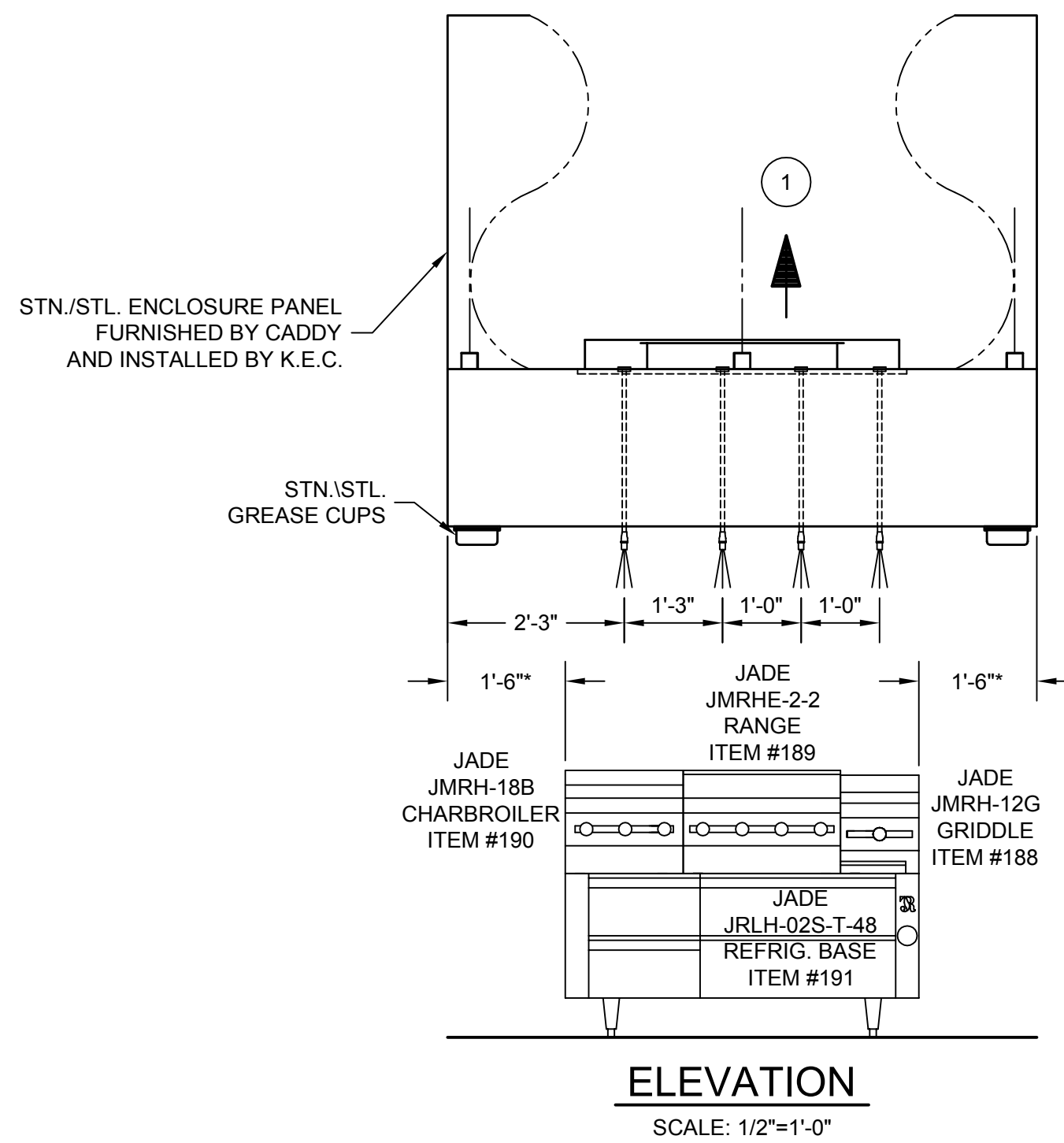
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CONTRACTOR NOTE:

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AIR TEMPERATURE SHOULD RANGE FROM 60° TO 65°F, BUT MAY BE AS LOW AS 50° F DEPENDING ON AIR VOLUME, DISTRIBUTION, AND INTERNAL HEAT LOAD



HANGER BRACKET DETAIL A-A

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INSTALLATION INFORMATION

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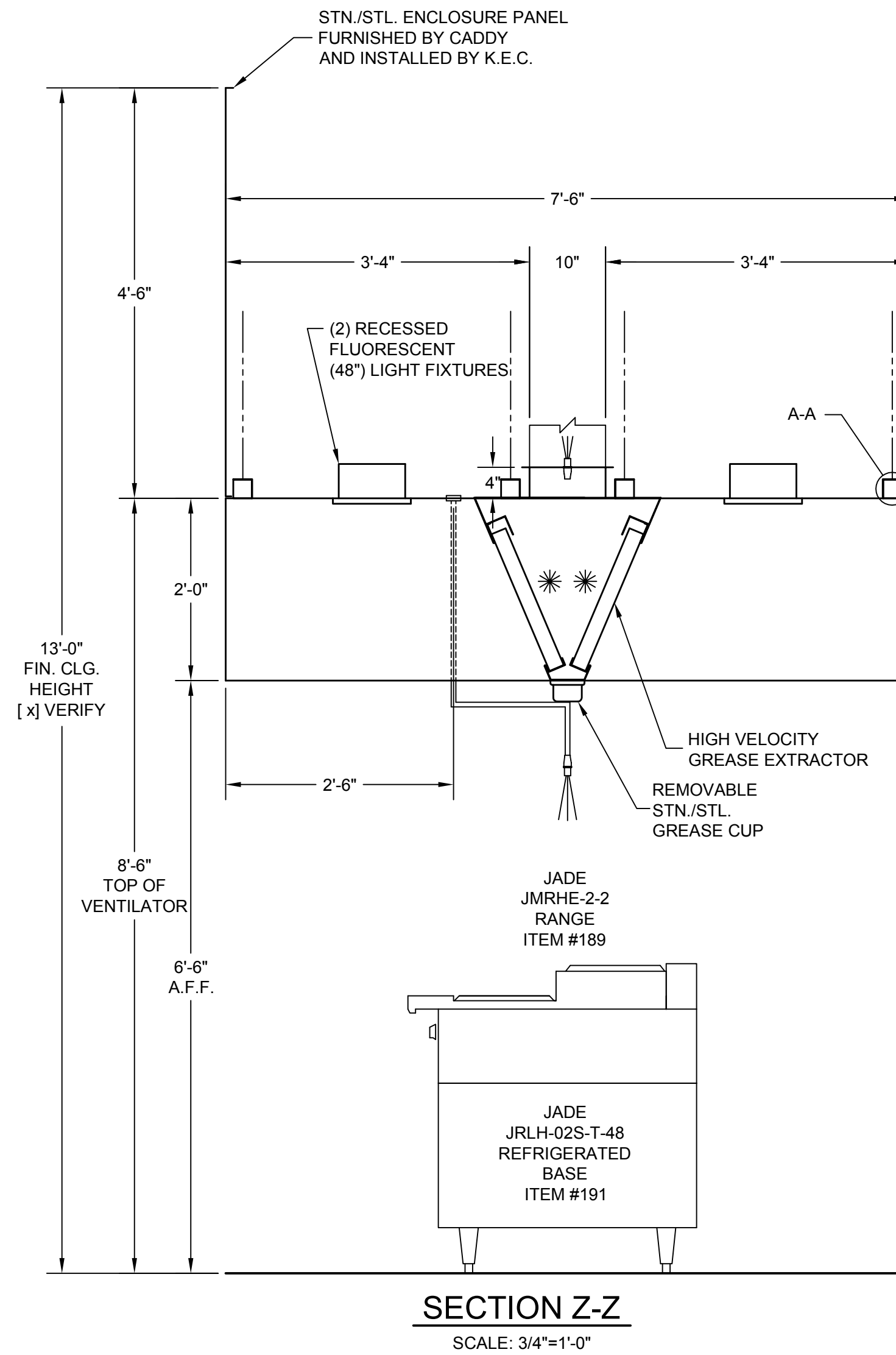
VENTILATOR TO BE SHIPPED IN (1) UNIT. ALL PLUMBING AND ELECTRICAL DISCONNECTED FOR SHIPMENT. RECONNECTED IN FIELD BY PLUMBING AND ELECTRICAL CONTRACTORS.

ELECTRICAL NOTES:

1. LIGHT FIXTURES, VAPORPROOF, U.L. LISTED, FURNISHED, INSTALLED AND WIRED TO J-BOX (D) BY CADDY. RECONNECTED ON JOBSITE BY ELECTRICAL CONTRACTOR.
2. LIGHT SWITCH FOR LIGHT FIXTURE WITH 120 VOLTS A.C. SERVICE BY ELECTRICAL CONTRACTOR.

TOTAL EXHAUST : 3,000 C.F.M.

1 10" X 29" EXHAUST DUCT
3,000 C.F.M. @ 1.60" S.P.



GENERAL NOTES

EXHAUST AIR REQUIREMENTS:

1. EXHAUST C.F.M. BASED ON 400 C.F.M. PER LINEAR FOOT.
2. EXHAUST STATIC PRESSURE IS 1.60" W.G. AT DUCT TAKE-OFF COLLAR. TOTAL DUCT STATIC MUST BE ADDED. STATIC BASED ON OPERATION AT MEAN SEA LEVEL.
3. DUCT SIZE BASED ON 1,500 F.P.M.

EXHAUST FAN REQUIREMENTS:

1. TYPE - INDUCED DRAFT, SQUIRREL CAGE, BACKWARD INCLINED BLADES. EXHAUST FAN DISCHARGE SHOULD BE VERTICAL, AWAY FROM AIR INTAKES. FAN FURNISHED BY OTHERS.
2. EXHAUST FAN MUST BE FURNISHED WITH A MAGNETIC STARTER WITH 120 VOLT HOLDING COIL. STARTER FURNISHED BY OTHERS.

MAKE-UP AIR REQUIREMENTS:

1. AIR EXHAUSTED FROM KITCHEN MUST BE REPLACED - WITH DISTRIBUTION CONTROLLED TO PROVIDE FOR TOTAL KITCHEN. VENTILATION AND TO ESTABLISH NECESSARY AIR PATTERNS FOR PROPER PERFORMANCE OF THE VENTILATORS. AIR DISTRIBUTION SYSTEMS SHALL BE IN ACCORDANCE WITH ALL GOVERNING CODES.
2. MAKE-UP AIR MUST BE TEMPERED-HEATED OR COOLED-CONSISTENT WITH THE STYLE OF HOOD, HEAT LOAD, CLIMATIC CONDITIONS AND APPLICABLE CODES.

INSTALLATION:

1. VENTILATORS TO BE INSTALLED IN ACCORDANCE WITH ALL CODES. CONTRACTORS MUST REVIEW APPLICABLE CODES WITH CODE AUTHORITIES BEFORE APPROVING DRAWINGS FOR FABRICATION. SPECIAL ATTENTION MUST BE GIVEN TO CODE REGULATIONS RELATIVE TO CLEARANCES FROM SURROUNDING COMBUSTIBLE CONSTRUCTION (WALL, CEILINGS, ETC.).
2. VENTILATORS ARE NOT TO BE INSTALLED IN AREAS MEANT TO HANDLE ENVIRONMENTAL AIR.
3. ALL DUCTWORK BEYOND VENTILATOR DUCT TAKE-OFF COLLAR TO BE PROVIDED AND INSTALLED BY OTHERS, IN ACCORDANCE WITH JURISDICTIONAL CODES. DUCTS MUST BE MECHANICALLY STRONG, GREASE AND WATER TIGHT.
4. MOUNTING RODS FURNISHED AND INSTALLED BY OTHERS.

CONSTRUCTION:

1. VENTILATORS TO BE MANUFACTURED IN STRICT ACCORDANCE WITH CADDY SPECIFICATIONS.
2. VENTILATORS CONSTRUCTED OF 18 GA. STAINLESS STEEL.

FIRE PROTECTION:

1. SURFACE FIRE PROTECTION PROVIDED AND INSTALLED BY CADDY (ANSUL R-102).
2. CAUTION: SURFACE FIRE PROTECTION SYSTEM INSTALLATION MUST BE COORDINATED WITH CADDY TO PREVENT SYSTEMS INTERFERENCE WITH VENTILATOR'S OPERATION/PERFORMANCE. IMPROPER INSTALLATION MAY VOID LISTINGS OF THE EQUIPMENT.
3. IMPORTANT NOTE: NFPA 96 REQUIRES THAT ALL GAS AND ELECTRIC COOKING EQUIPMENT THAT IS PROTECTED BY A SURFACE FIRE PROTECTION SYSTEM MUST AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE SYSTEM.

ELECTRICAL REQUIREMENTS:

1. LIGHT FIXTURE BULBS PROVIDED AND INSTALLED BY OTHERS.



ROUGH-IN SCHEDULE			REVISIONS			
SYM	QTY	DESCRIPTION	REV	DATE	BY	REMARKS
D	1	120V, 60HZ, 1PH, 0.16 K.W. CONNECTED LOAD	A	4-18-12	DRA	ADDED MUA, INCREASED HOOD 6" AND INCREASED 12" CHARBROILER TO A 18"
			B	5-31-12	DRA	REMOVED CEILING SUPPLY PLENUMS
			C	11-2-12	DRA	REVISED PER RECEIVED P.O.
			D	1-7-13	DRA	REVISED TO FLUORESCENT LIGHTS
			E	01/14/13	DRA	REVISED FOR FABRICATION PER *APPROVED AS NOTED* DRAWING RECEIVED ON 01/14/13.

DATE: 2-21-12		SCALE: AS NOTED	DWG# D-1-10710	SHT 4 OF 10
DR BY: BJW	APPD BY: BJW			

CADDY CORPORATION
509 Sharpstown Road
Bridgeport, NJ 08014-0345
Tel: 856-467-4222
Internet: www.caddycorp.com
P.O. Box 345
Fax: 856-467-5511

EQUIPMENT SCHEDULE

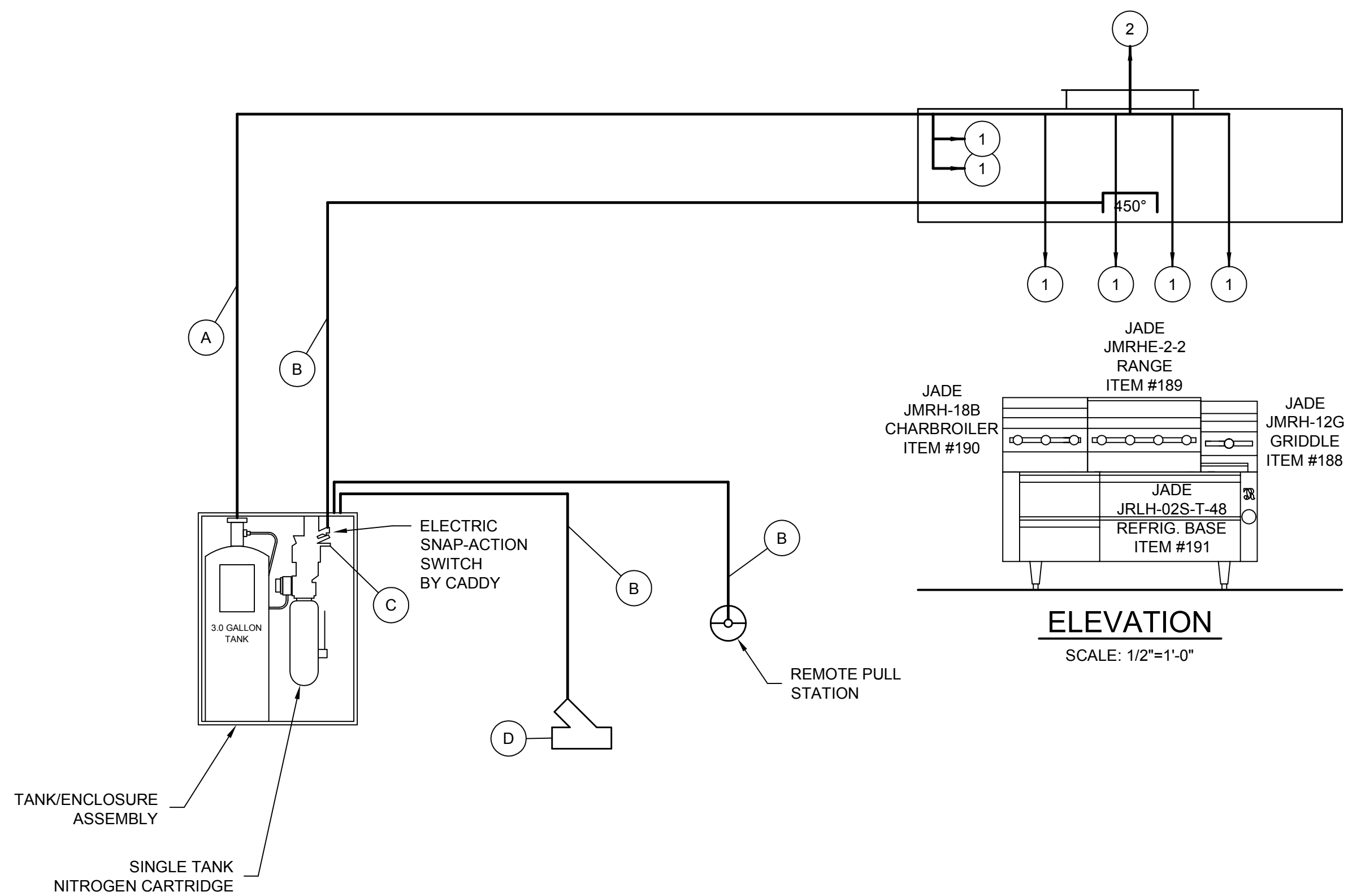
SHBC-C-II-84-ND-84

CADDY NO. 10710-7 ITEM NO. 196

JOB: READING HOSPITAL
LOC: READING, PA
CUST: SINGER EQUIPMENT
CUST#: 03304717

GENERAL CONTRACT CONDITIONS

ELECTRICAL WORK DONE BY CADDY CORPORATION IS EXECUTED IN COMPLIANCE WITH STANDARDS PUBLISHED BY THE UNDERWRITER'S LABORATORIES, INC. INSOFAR AS APPLICABLE, AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC). CADDY CORPORATION DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE REQUIREMENTS OF ANY REGIONAL AND/OR LOCAL CODES THAT ADD OR DEVIATED FROM THE ACCEPTED STANDARDS OF THE ABOVE AGENCIES. ANY FIELD WORK RELATING TO THE MODIFICATION OF ELECTRIC OR PLUMBING SYSTEMS, TO MEET REGIONAL OR LOCAL CODE REQUIREMENTS, IS TO BE DONE BY OTHERS AND WITHOUT BACK CHARGES TO CADDY CORPORATION, UNLESS THESE CONDITIONS WERE PREVIOUSLY BROUGHT TO OUR ATTENTION AND ARE EXPRESSLY INCLUDED IN OUR WRITTEN QUOTATION. ALL WIRING AND PLUMBING AT THE JOB SITE IS THE RESPONSIBILITY OF OTHERS. EQUIPMENT WILL BE CONSTRUCTED IN ACCORDANCE WITH OUR DRAWING(S) WHICH MUST BE APPROVED PRIOR TO FABRICATION. ANY SUBSEQUENT CHANGES REQUIRED MUST BE SUBMITTED TO US IN WRITING AND ACKNOWLEDGED ON OUR STANDARD FORM.

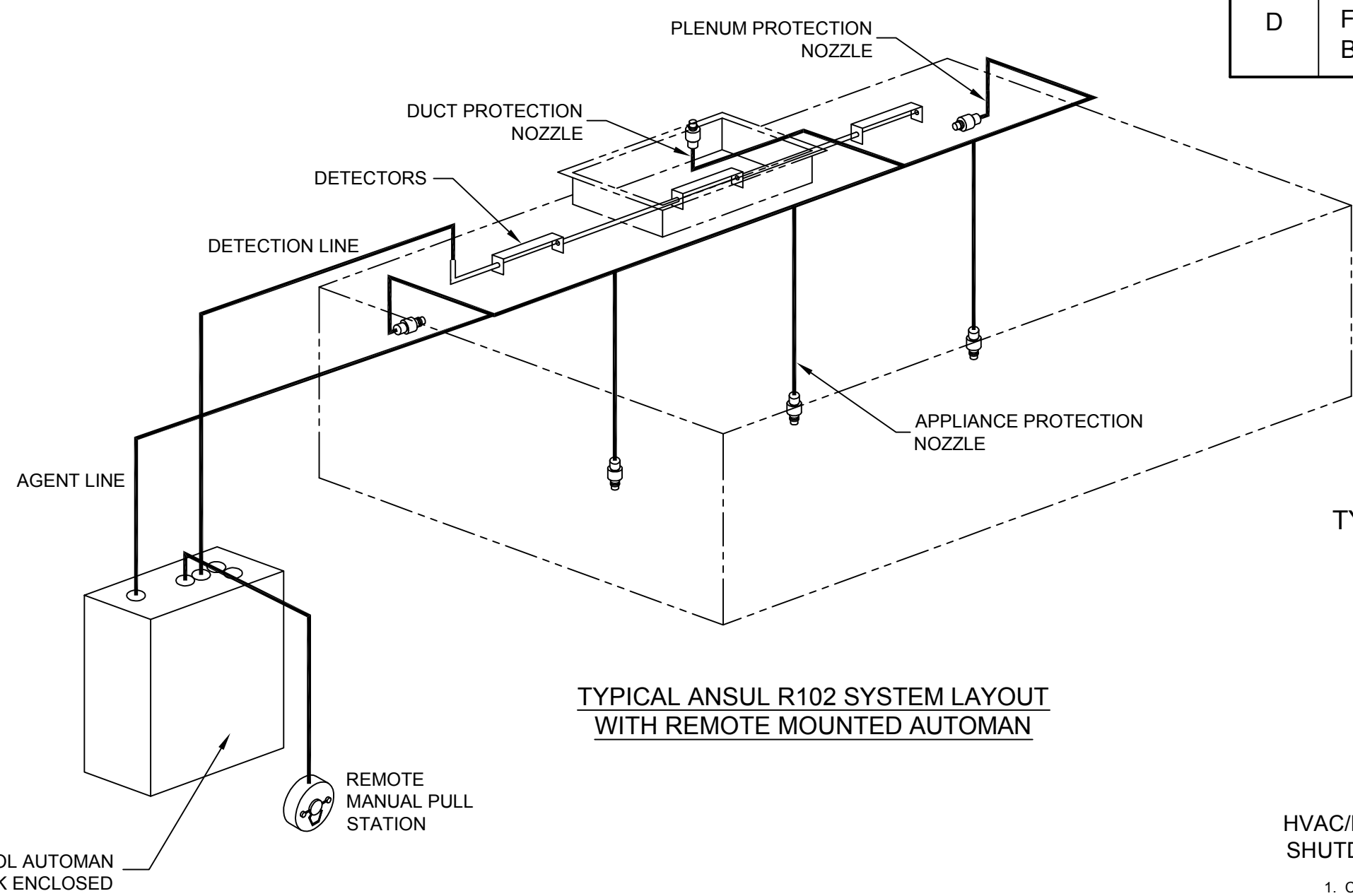


ANSUL ROUGH-IN

SYM	DESCRIPTION
A	3/8" SCH 40 BLACK IRON PIPE. ALL EXPOSED PIPING TO BE CHROME PLATED OR STN./STL.
B	1/2" EMT CONDUIT
C	MICRO SWITCH FOR ELECTRIC SHUT-DOWN AND/OR ALARM BY CADDY WIRING BY E.C.
D	2" MECHANICAL TYPE GAS VALVE FURNISHED BY CADDY AND INSTALLED BY P.C. ([] VERIFY SIZE).

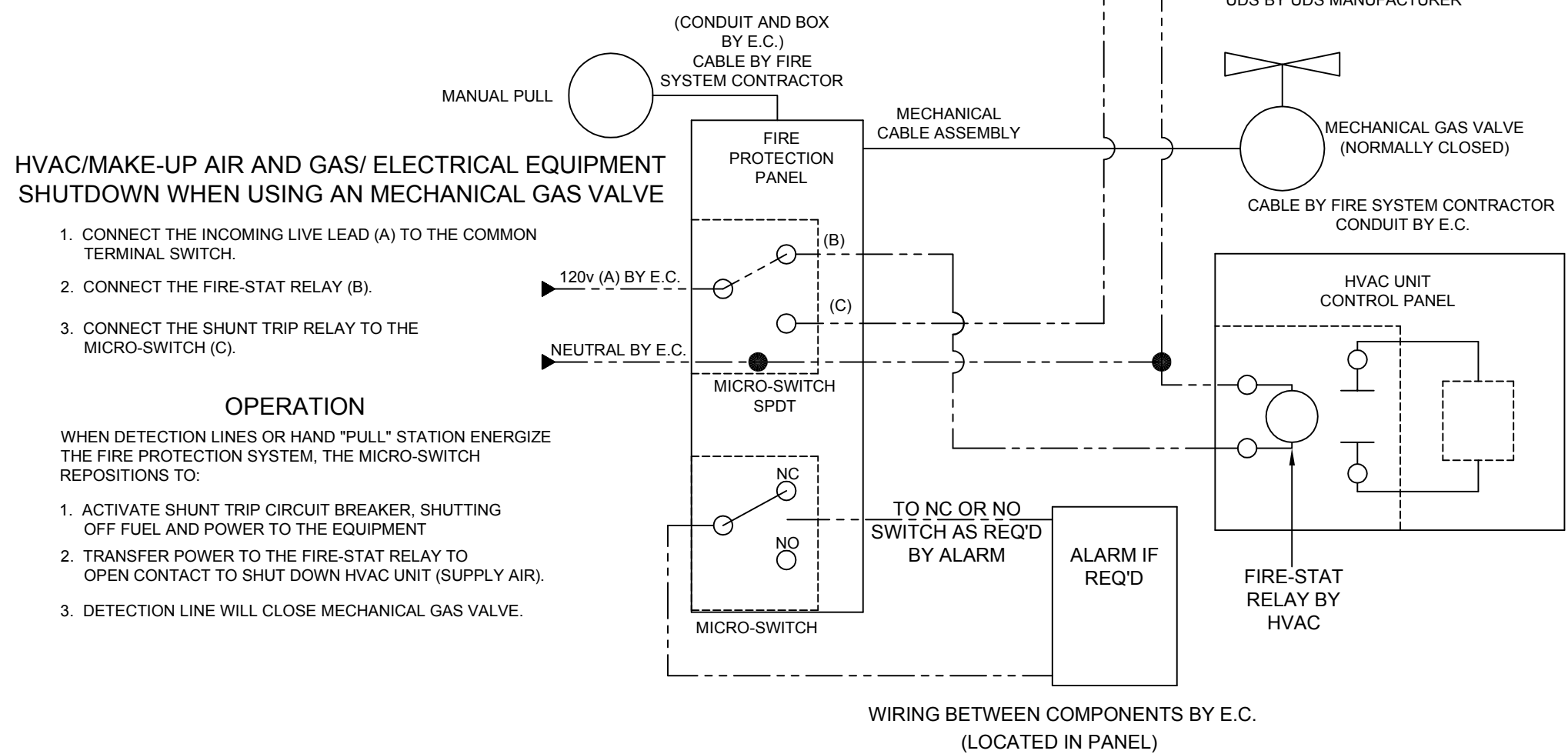
ANSUL NOZZLE DATA

SYM	QTY	DESCRIPTION	FLOW POINTS EACH	MIN.-MAX. HEIGHT ABOVE HAZARD
1	6	ANSUL #1N	1	30"-40" (RANGE) 35"-40" (GRIDDLE) 15"-40" (CHARBROILER)
2	1	ANSUL #2W	2	



ANSUL R-102 3 SYSTEM
FOR VENTILATOR ITEMS #196

TYPICAL WET CHEMICAL FIRE PROTECTION SYSTEM INTERLOCK



HVAC/MAKE-UP AIR AND GAS/ ELECTRICAL EQUIPMENT SHUTDOWN WHEN USING A MECHANICAL GAS VALVE

- CONNECT THE INCOMING LIVE LEAD (A) TO THE COMMON TERMINAL SWITCH.
- CONNECT THE FIRE-STAT RELAY (B).
- CONNECT THE SHUNT TRIP RELAY TO THE MICRO-SWITCH (C).

OPERATION

WHEN DETECTION LINES OR HAND "PULL" STATION ENERGIZE THE FIRE PROTECTION SYSTEM, THE MICRO-SWITCH REPOSITIONS TO:

- ACTIVATE SHUNT TRIP CIRCUIT BREAKER, SHUTTING OFF FUEL AND POWER TO THE EQUIPMENT
- TRANSFER POWER TO THE FIRE-STAT RELAY TO OPEN CONTACT TO SHUT DOWN HVAC UNIT (SUPPLY AIR).
- DETECTION LINE WILL CLOSE MECHANICAL GAS VALVE.

INSTALLATION INFORMATION

ALLOW SUFFICIENT AREA TO MOUNT ANSUL ON CLOSEST STRUCTURAL WALL TO VENTILATOR
MAXIMUM ANSUL ENCLOSURE DIMENSIONS
16 1/2" LONG x 7 1/2" DEEP x 23 1/2" HIGH
ESTIMATED TOTAL HANGING WEIGHT: 75 LBS.
ENCLOSURE MOUNTING HEIGHT 7'-0"



UNDERWRITERS LABORATORIES, INC.
TESTED UNDER STANDARD U.L. 300 "FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF RESTAURANT COOKING AREAS".



GENERAL CONTRACT CONDITIONS

ELECTRICAL WORK DONE BY CADDY CORPORATION IS EXECUTED IN COMPLIANCE WITH STANDARDS PUBLISHED BY THE UNDERWRITER'S LABORATORIES, INC. INSOFAR AS APPLICABLE, AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC). CADDY CORPORATION DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE REQUIREMENTS OF ANY REGIONAL AND/OR LOCAL CODES THAT ADD OR DEVIATED FROM THE ACCEPTED STANDARDS OF THE ABOVE AGENCIES. ANY FIELD WORK RELATING TO THE MODIFICATION OF ELECTRIC OR PLUMBING SYSTEMS, TO MEET REGIONAL OR LOCAL CODE REQUIREMENTS, IS TO BE DONE BY OTHERS AND WITHOUT BACK CHARGES TO CADDY CORPORATION, UNLESS THESE CONDITIONS WERE PREVIOUSLY BROUGHT TO OUR ATTENTION AND ARE EXPRESSLY INCLUDED IN OUR WRITTEN QUOTATION. ALL WIRING AND PLUMBING AT THE JOB SITE IS THE RESPONSIBILITY OF OTHERS. EQUIPMENT WILL BE CONSTRUCTED IN ACCORDANCE WITH OUR DRAWING(S) WHICH MUST BE APPROVED PRIOR TO FABRICATION. ANY SUBSEQUENT CHANGES REQUIRED MUST BE SUBMITTED TO US IN WRITING AND ACKNOWLEDGED ON OUR STANDARD FORM.

REVISIONS			
REV	DATE	BY	REMARKS
A	4-18-12	DRA	ADDED MUA, INCREASED HOOD 6" AND INCREASED 12" CHARBROILER TO A 16"
B	5-31-12	DRA	NO CHANGES
C	11-2-12	DRA	REVISED PER RECEIVED P.O.
D	1-7-13	DRA	NO CHANGES
E	01/14/13	DRA	REVISED FOR FABRICATION PER "APPROVED AS NOTED" DRAWING RECEIVED ON 01/14/13.

CADDY CORPORATION	
509 Shertown Road Bridgeport, NJ 08014-0345 Tel: 856-467-4222 Internet: www.caddycorp.com	P.O. Box 345 Fax: 856-467-5511
EQUIPMENT SCHEDULE	
ANSUL R-102 3	
CADDY NO. 10710	ITEM NO. 196A
JOB: READING HOSPITAL LOC: READING, PA CUST: SINGER EQUIPMENT CUST#: 03304717	
DATE: 2-21-12	SCALE: AS NOTED
DR BY: BJW	APP'D BY: <i>BJW</i>
DWG# D-1-10710	
SHT 5 OF 10	

GENERAL NOTES

EXHAUST AIR REQUIREMENTS:

1. EXHAUST C.F.M. BASED ON 200 C.F.M. PER LINEAR FOOT.
2. EXHAUST STATIC PRESSURE IS 1.60" W.G. AT DUCT TAKE-OFF COLLAR. TOTAL DUCT STATIC MUST BE ADDED. STATIC BASED ON OPERATION AT MEAN SEA LEVEL.
3. DUCT SIZE BASED ON 1,800 F.P.M.

EXHAUST FAN REQUIREMENTS:

1. TYPE - INDUCED DRAFT, SQUIRREL CAGE, BACKWARD INCLINED BLADES. EXHAUST FAN DISCHARGE SHOULD BE VERTICAL, AWAY FROM AIR INTAKES. FAN FURNISHED BY OTHERS.
2. EXHAUST FAN MUST BE FURNISHED WITH A MAGNETIC STARTER WITH 120 VOLT HOLDING COIL. STARTER FURNISHED BY OTHERS.

MAKE-UP AIR REQUIREMENTS:

1. AIR EXHAUSTED FROM KITCHEN MUST BE REPLACED - WITH DISTRIBUTION CONTROLLED TO PROVIDE FOR TOTAL KITCHEN VENTILATION AND TO ESTABLISH NECESSARY AIR PATTERNS FOR PROPER PERFORMANCE OF THE VENTILATORS. AIR DISTRIBUTION SYSTEMS SHALL BE IN ACCORDANCE WITH ALL GOVERNING CODES.
2. MAKE-UP AIR MUST BE TEMPERED-HEATED OR COOLED-CONSISTENT WITH THE STYLE OF HOOD, HEAT LOAD, CLIMATIC CONDITIONS AND APPLICABLE CODES.

INSTALLATION:

1. VENTILATORS TO BE INSTALLED IN ACCORDANCE WITH ALL CODES. CONTRACTORS MUST REVIEW APPLICABLE CODES WITH CODE AUTHORITIES BEFORE APPROVING DRAWINGS FOR FABRICATION. SPECIAL ATTENTION MUST BE GIVEN TO CODE REGULATIONS RELATIVE TO CLEARANCES FROM SURROUNDING COMBUSTIBLE CONSTRUCTION (WALL, CEILINGS, ETC.).
2. VENTILATORS ARE NOT TO BE INSTALLED IN AREAS MEANT TO HANDLE ENVIRONMENTAL AIR.
3. ALL DUCTWORK BEYOND VENTILATOR DUCT TAKE-OFF COLLAR TO BE PROVIDED AND INSTALLED BY OTHERS, IN ACCORDANCE WITH JURISDICTIONAL CODES. DUCTS MUST BE MECHANICALLY STRONG, GREASE AND WATER TIGHT.
4. MOUNTING RODS FURNISHED AND INSTALLED BY OTHERS.

CONSTRUCTION:

1. VENTILATORS TO BE MANUFACTURED IN STRICT ACCORDANCE WITH CADDY SPECIFICATIONS.
2. VENTILATORS CONSTRUCTED OF 18 GA. STAINLESS STEEL.

FIRE PROTECTION:

1. SURFACE FIRE PROTECTION PROVIDED AND INSTALLED BY CADDY (ANSUL R-102).
2. CAUTION: SURFACE FIRE PROTECTION SYSTEM INSTALLATION MUST BE COORDINATED WITH CADDY TO PREVENT SYSTEMS INTERFERENCE WITH VENTILATOR'S OPERATION/PERFORMANCE. IMPROPER INSTALLATION MAY VOID LISTINGS OF THE EQUIPMENT.
3. IMPORTANT NOTE: NFPA 96 REQUIRES THAT ALL GAS AND ELECTRIC COOKING EQUIPMENT THAT IS PROTECTED BY A SURFACE FIRE PROTECTION SYSTEM MUST AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE SYSTEM.

ELECTRICAL REQUIREMENTS:

1. LIGHT FIXTURE BULBS PROVIDED AND INSTALLED BY OTHERS.

THE CADDY VENTILATOR TESTING, LISTING AND APPROVAL REFERENCES:

NATIONAL FIRE PROTECTION ASSOCIATION
IN ACCORDANCE WITH RECOMMENDATION OF NATIONAL FIRE PROTECTION ASSOCIATION'S NFPA NO. 96 "VAPOR REMOVAL FROM COOKING EQUIPMENT"

NATIONAL SANITATION FOUNDATION
STANDARD #2 - "FOOD SERVICE EQUIPMENT"
ETL, INTERTEK

TESTED UNDER STANDARD U.L. 710 "EXHAUST HOODS FOR COMMERCIAL COOKING EQUIPMENT". ETL LISTED UNDER CONTROL # 3177269

UNIFORM MECHANICAL CODE
SECTION 507 - COMMERCIAL KITCHEN HOODS AND KITCHEN VENTILATION SYSTEMS

THE BOCA NATIONAL MECHANICAL CODE
CHAPTER 5 - KITCHEN EXHAUST EQUIPMENT
STANDARD MECHANICAL CODE (SBCCI)

SECTION 504 - COMMERCIAL HOODS

UNIFORM BUILDING CODE (ICBO)

INTERNATIONAL MECHANICAL CODE (IMC)

SECTION 507 - COMMERCIAL KITCHEN HOODS

EXCLUDES CODE #507.2.1.1, CONSULT FACTORY FOR COMPLIANCE OPTIONS.

FOR COMPLIANCE OPTIONS.

NOTE:

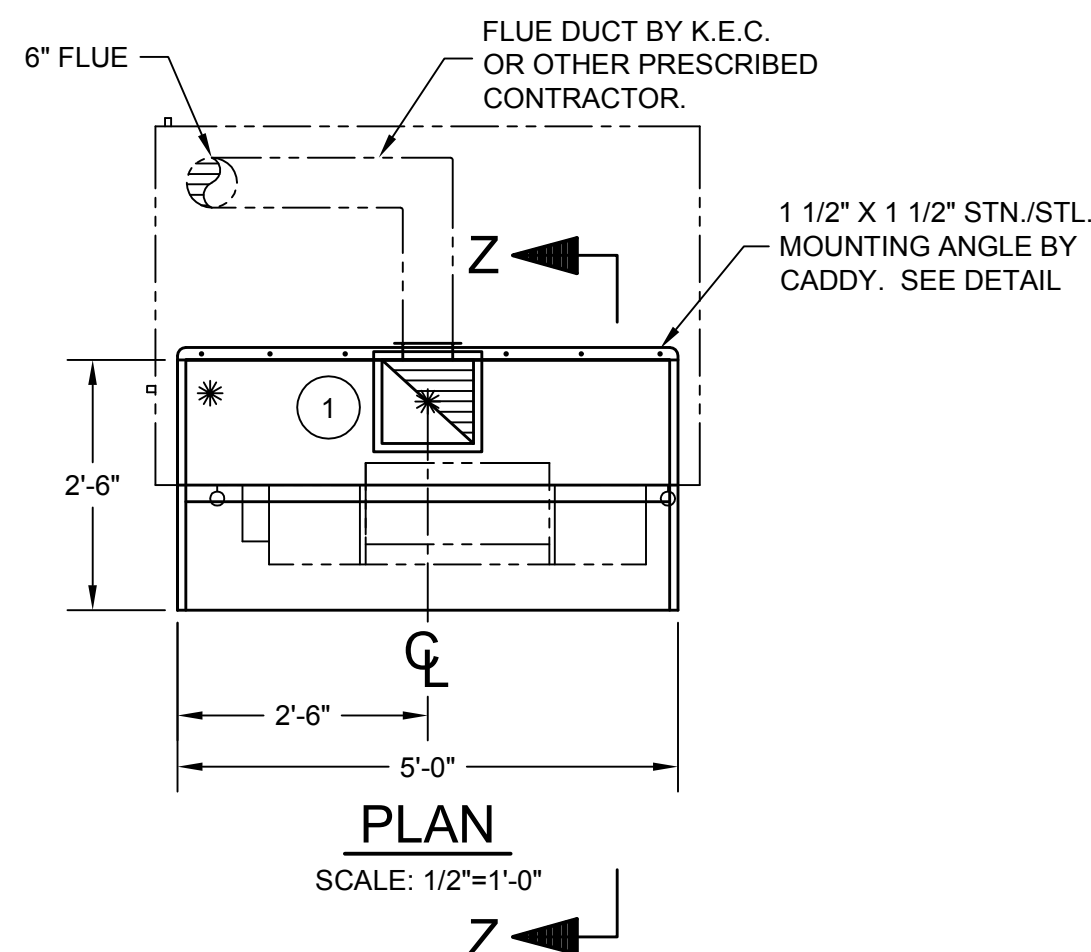
K.E.C. MUST VERIFY THE EXACT DIMENSION OF THE COOKING EQUIPMENT FROM EITHER THE WALL OR FROM THE FRONT OF THE HOOD, SO CADDY MAY PROPERLY LOCATE THE FIRE PROTECTION NOZZLES AT TIME-OF-FABRICATION IN THE FACTORY. IF EQUIPMENT IS NOT LOCATED AS SHOWN AND THE DRAWING IS APPROVED FOR FABRICATION, THEN NOZZLES MUST BE RELOCATED AT THE EXPENSE OF OTHERS.

CONTRACTOR NOTE:

ALLOW SUFFICIENT ACCESS ON TOP OF VENTILATOR TO SERVICE COMPONENTS AND UTILITIES

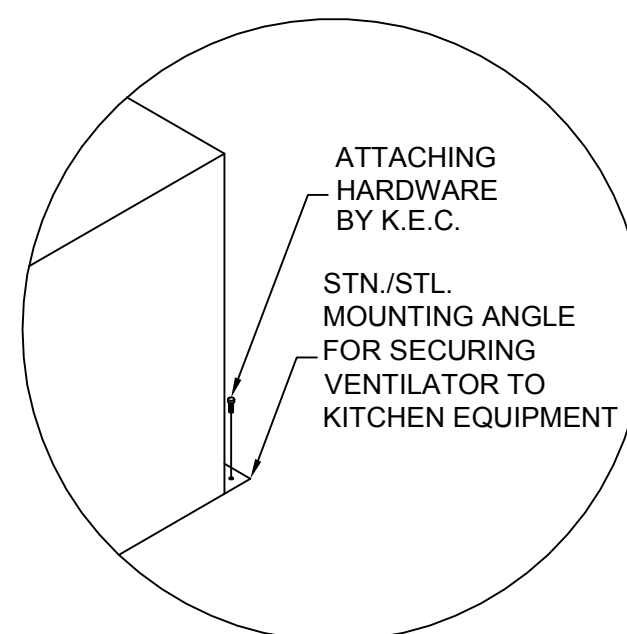
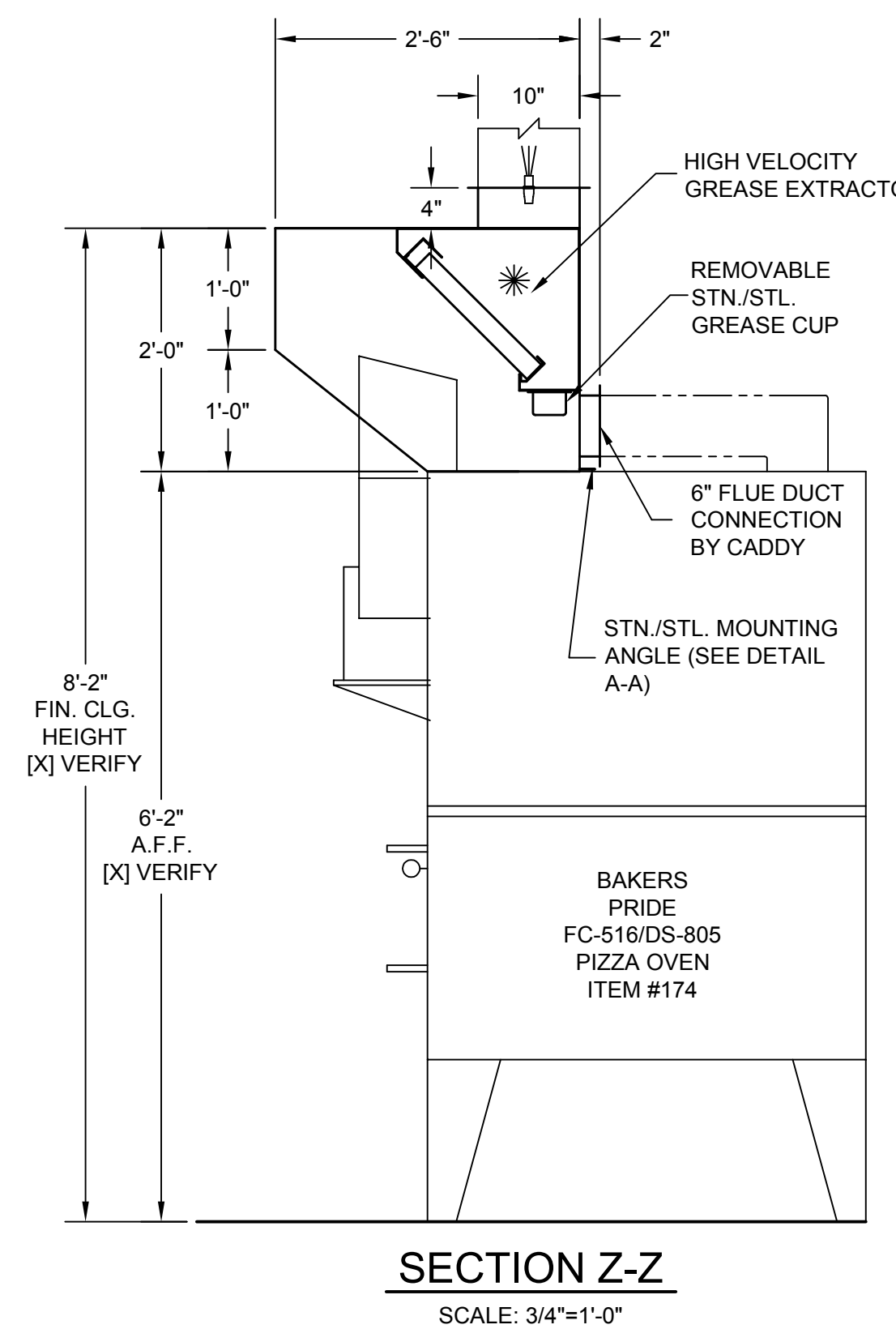
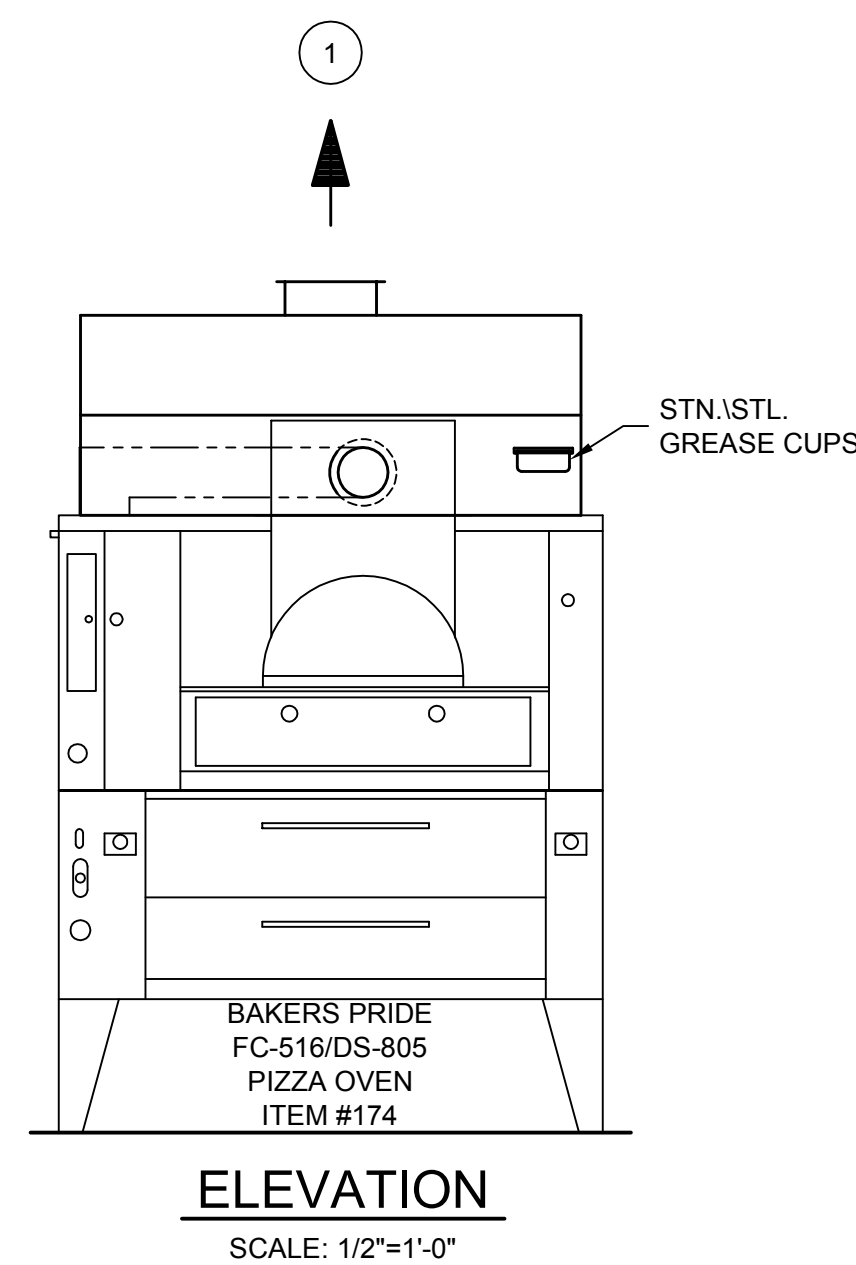
MAKE-UP AIR NOTE:

AIR TEMPERATURE SHOULD RANGE FROM 60° TO 65°F, BUT MAY BE AS LOW AS 50° F DEPENDING ON AIR VOLUME, DISTRIBUTION, AND INTERNAL HEAT LOAD



TOTAL EXHAUST : 1,100 C.F.M.

1 10" X 11" EXHAUST DUCT
1,100 C.F.M. @ 1.60" S.P.



MOUNTING ANGLE DETAIL A-A

SCALE: 3/4"=1'-0"

GENERAL CONTRACT CONDITIONS

ELECTRICAL WORK DONE BY CADDY CORPORATION IS EXECUTED IN COMPLIANCE WITH STANDARDS PUBLISHED BY THE UNDERWRITER'S LABORATORIES, INC. INsofar AS APPLICABLE, AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC). CADDY CORPORATION DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE REQUIREMENTS OF ANY REGIONAL AND/OR LOCAL CODES THAT ADD OR DEVIATED FROM THE ACCEPTED STANDARDS OF THE ABOVE AGENCIES. ANY FIELD WORK RELATING TO THE MODIFICATION OF ELECTRIC OR PLUMBING SYSTEMS, TO MEET REGIONAL OR LOCAL CODE REQUIREMENTS, IS TO BE DONE BY OTHERS AND WITHOUT BACK CHARGES TO CADDY CORPORATION, UNLESS THESE CONDITIONS WERE PREVIOUSLY BROUGHT TO OUR ATTENTION AND ARE EXPRESSLY INCLUDED IN OUR WRITTEN QUOTATION. ALL WIRING AND PLUMBING AT THE JOB SITE IS THE RESPONSIBILITY OF OTHERS. EQUIPMENT WILL BE CONSTRUCTED IN ACCORDANCE WITH OUR DRAWING(S) WHICH MUST BE APPROVED PRIOR TO FABRICATION. ANY SUBSEQUENT CHANGES REQUIRED MUST BE SUBMITTED TO US IN WRITING AND ACKNOWLEDGED ON OUR STANDARD FORM.

K.E.C. TO VERIFY ALL MAKES AND MODELS OF COOKING EQUIPMENT, REVIEW PLAN FOR PROPER LINE-UP PRIOR TO FABRICATION OF VENTILATORS, AND TO NOTIFY CADDY OF ANY CHANGES.

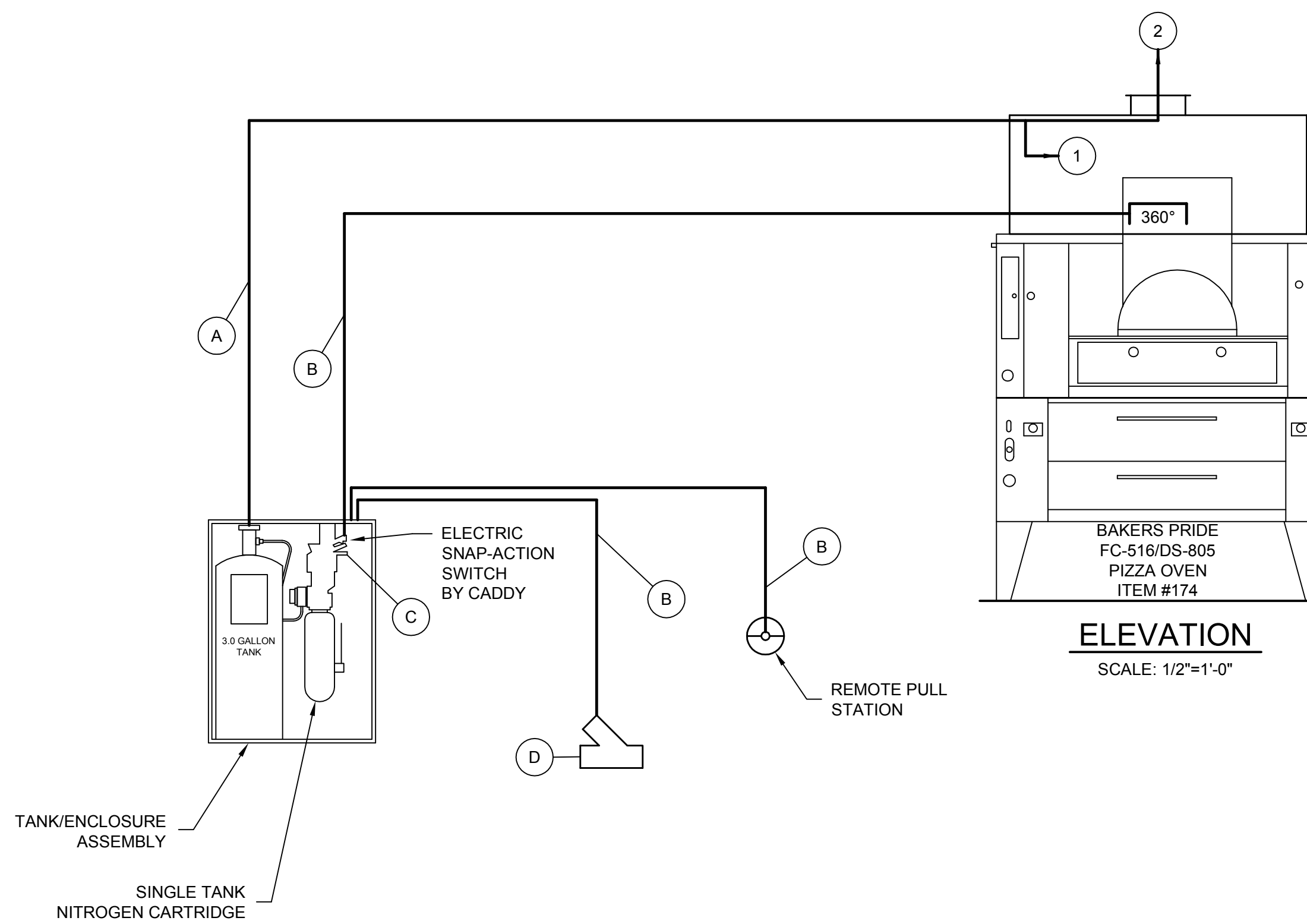
INSTALLATION INFORMATION

ALLOW SUFFICIENT ACCESS TO BRING VENTILATOR INTO KITCHEN AREA MAXIMUM VENTILATOR DIMENSIONS 5'-0" LONG X 2'-8 1/2" WIDE X 28" HIGH ESTIMATED TOTAL HANGING WEIGHT: 325 LBS.

VENTILATOR TO BE SHIPPED IN (1) UNIT. ALL PLUMBING AND ELECTRICAL DISCONNECTED FOR SHIPMENT. RECONNECTED IN FIELD BY PLUMBING AND ELECTRICAL CONTRACTORS.

REVISIONS			
REV	DATE	BY	REMARKS
A	4-18-12	DRA	REVISED HOOD TO 5'-0" LONG AND ADDED FLUE CONNECTION NO CHANGES
B	5-31-12	DRA	
C	11-2-12	DRA	REVISED PER RECEIVED P.O.
D	1-7-13	DRA	ADDED DIMENSION AND REVISED NOTE TO CLARIFY 2" X 6" DIA. DUCT CONNECTION.
E	01/14/13	DME	REVISED FOR FABRICATION PER "APPROVED AS NOTED" DRAWING RECEIVED ON 01/14/13.

<p>CADDY CORPORATION 509 Sharptown Road Bridgeport, NJ 08014-0345 Tel: 856-467-4222 Fax: 856-467-5511 Internet: www.caddycorp.com</p>					
<p>EQUIPMENT SCHEDULE</p>					
<p>SHBC-BK-1-60-ND-30</p>					
<p>CADDY NO. 10710-5</p>		<p>ITEM NO. 174.1</p>			
<p>JOB: READING HOSPITAL LOC: READING, PA CUST: SINGER EQUIPMENT CUST#: 03304717</p>					
DATE	2-21-12	SCALE	AS NOTED		
DR BY	BJW	APPD BY	BJW		
<p>DWG# D-1-10710</p>					<p>SHT 6 OF 10</p>



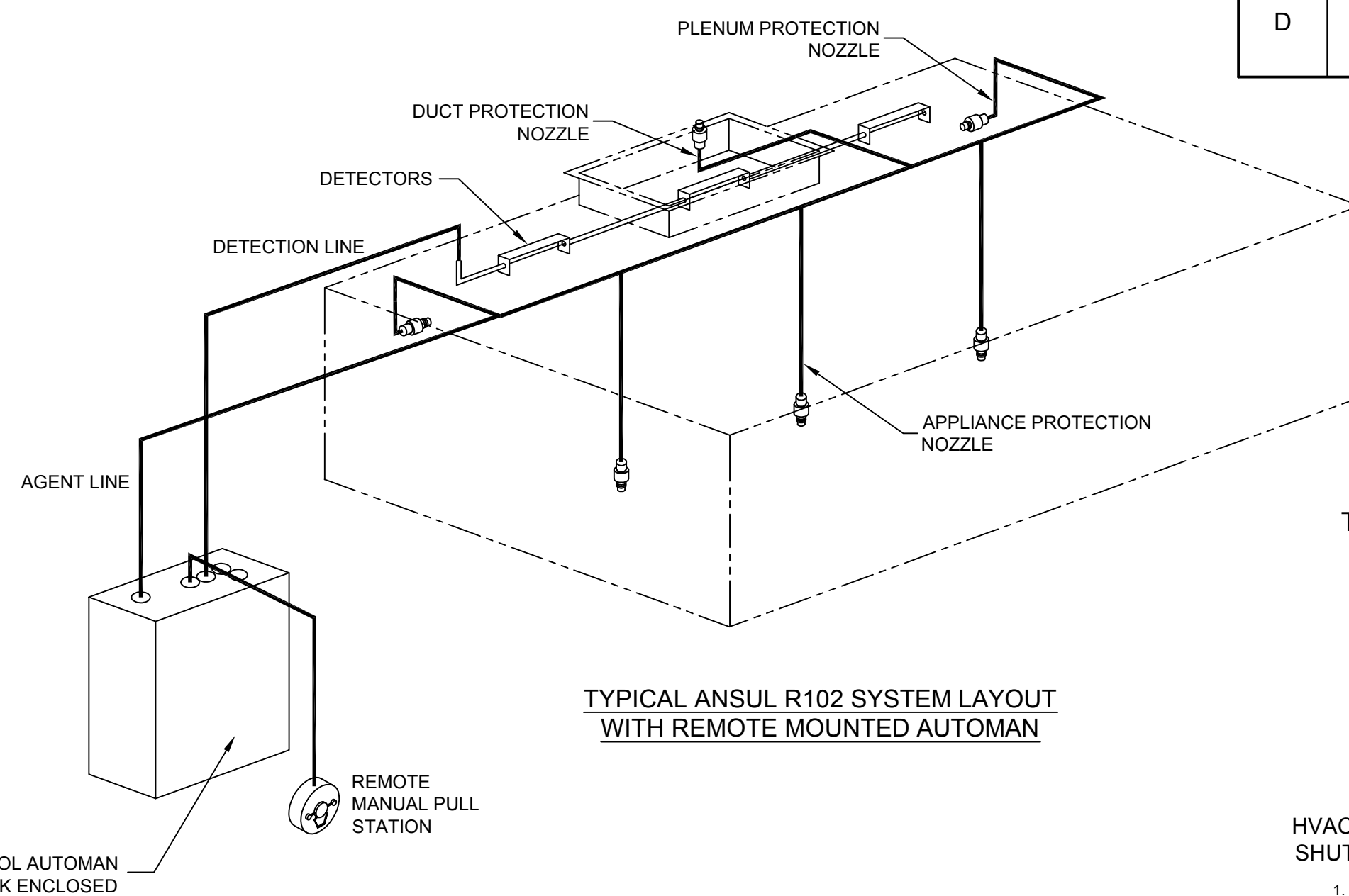
ELEVATION
SCALE: 1/2"=1'-0"

ANSUL ROUGH-IN

SYM	DESCRIPTION
A	3/8" SCH 40 BLACK IRON PIPE. ALL EXPOSED PIPING TO BE CHROME PLATED OR STN./STL.
B	1/2" EMT CONDUIT
C	MICRO SWITCH FOR ELECTRIC SHUT-DOWN AND/OR ALARM BY CADDY WIRING BY E.C.
D	2" MECHANICAL TYPE GAS VALVE FURNISHED BY CADDY AND INSTALLED BY P.C. ([] VERIFY SIZE).

ANSUL NOZZLE DATA

SYM	QTY	DESCRIPTION	FLOW POINTS EACH	MIN.-MAX. HEIGHT ABOVE HAZARD
1	1	ANSUL #1N	1	
2	1	ANSUL #2W	2	



TYPICAL ANSUL R102 SYSTEM LAYOUT WITH REMOTE MOUNTED AUTOMAN

TYPICAL WET CHEMICAL FIRE PROTECTION SYSTEM INTERLOCK

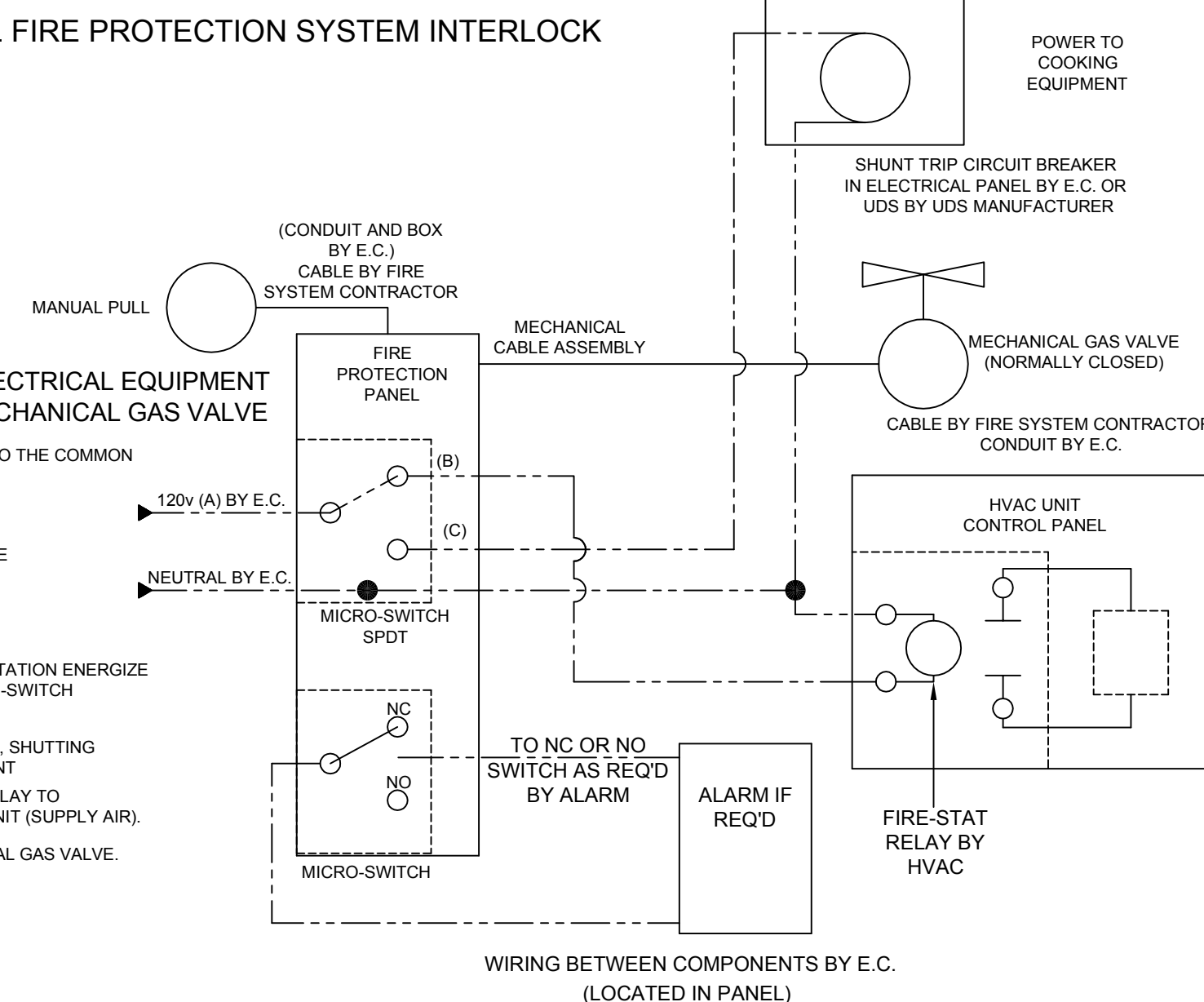
HVAC/MAKE-UP AIR AND GAS/ ELECTRICAL EQUIPMENT SHUTDOWN WHEN USING A MECHANICAL GAS VALVE

- CONNECT THE INCOMING LIVE LEAD (A) TO THE COMMON TERMINAL SWITCH.
- CONNECT THE FIRE-STAT RELAY (B).
- CONNECT THE SHUNT TRIP RELAY TO THE MICRO-SWITCH (C).

OPERATION

WHEN DETECTION LINES OR HAND "PULL" STATION ENERGIZE THE FIRE PROTECTION SYSTEM, THE MICRO-SWITCH REPOSITIONS TO:

- ACTIVATE SHUNT TRIP CIRCUIT BREAKER, SHUTTING OFF FUEL AND POWER TO THE EQUIPMENT
- TRANSFER POWER TO THE FIRE-STAT RELAY TO OPEN CONTACT TO SHUT DOWN HVAC UNIT (SUPPLY AIR).
- DETECTION LINE WILL CLOSE MECHANICAL GAS VALVE.



WIRING BETWEEN COMPONENTS BY E.C. (LOCATED IN PANEL)

INSTALLATION INFORMATION

ALLOW SUFFICIENT AREA TO MOUNT ANSUL ON CLOSEST STRUCTURAL WALL TO VENTILATOR
 MAXIMUM ANSUL ENCLOSURE DIMENSIONS
 16 1/2" LONG x 7 1/2" DEEP x 23 1/2" HIGH
 ESTIMATED TOTAL HANGING WEIGHT: 75 LBS.
 ENCLOSURE MOUNTING HEIGHT 7'-0"



UNDERWRITERS LABORATORIES, INC.
 TESTED UNDER STANDARD U.L. 300 "FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF RESTAURANT COOKING AREAS"

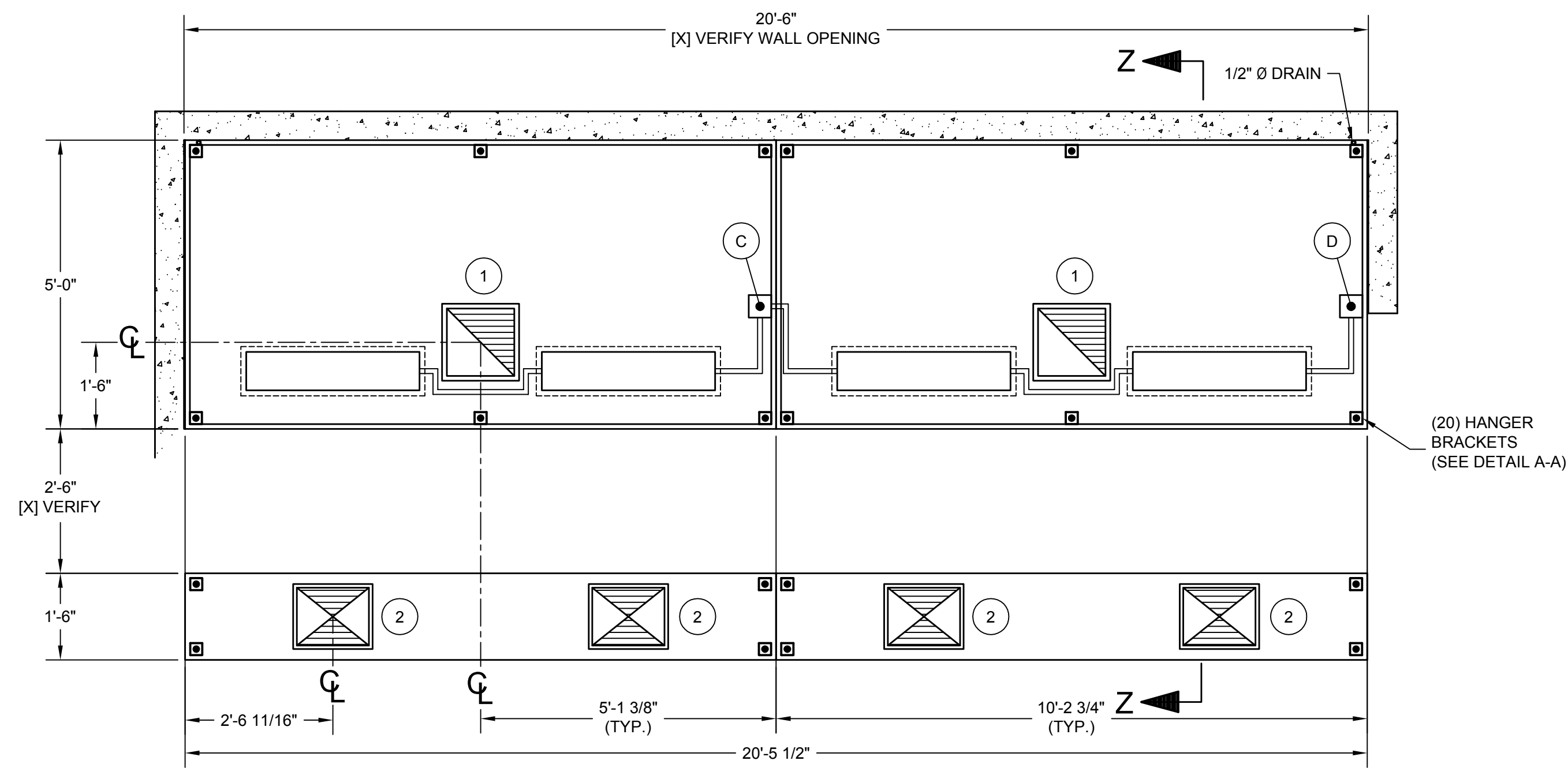


GENERAL CONTRACT CONDITIONS

ELECTRICAL WORK DONE BY CADDY CORPORATION IS EXECUTED IN COMPLIANCE WITH STANDARDS PUBLISHED BY THE UNDERWRITER'S LABORATORIES, INC. INSOFAR AS APPLICABLE, AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC). CADDY CORPORATION DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE REQUIREMENTS OF ANY REGIONAL AND/OR LOCAL CODES THAT ADD OR DEVIATED FROM THE ACCEPTED STANDARDS OF THE ABOVE AGENCIES.
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 ALL WIRING AND PLUMBING AT THE JOB SITE IS THE RESPONSIBILITY OF OTHERS. EQUIPMENT WILL BE CONSTRUCTED IN ACCORDANCE WITH OUR DRAWING(S) WHICH MUST BE APPROVED PRIOR TO FABRICATION. ANY SUBSEQUENT CHANGES REQUIRED MUST BE SUBMITTED TO US IN WRITING AND ACKNOWLEDGED ON OUR STANDARD FORM.

REVISIONS			
REV	DATE	BY	REMARKS
A	4-18-12	DRA	REVISED HOOD TO 5'-0" LONG
B	5-31-12	DRA	NO CHANGES
C	11-2-12	DRA	REVISED PER RECEIVED P.O.
D	1-7-13	DRA	NO CHANGES
E	01/14/13	DME	REVISED FOR FABRICATION PER "APPROVED AS NOTED" DRAWING RECEIVED ON 01/14/13.

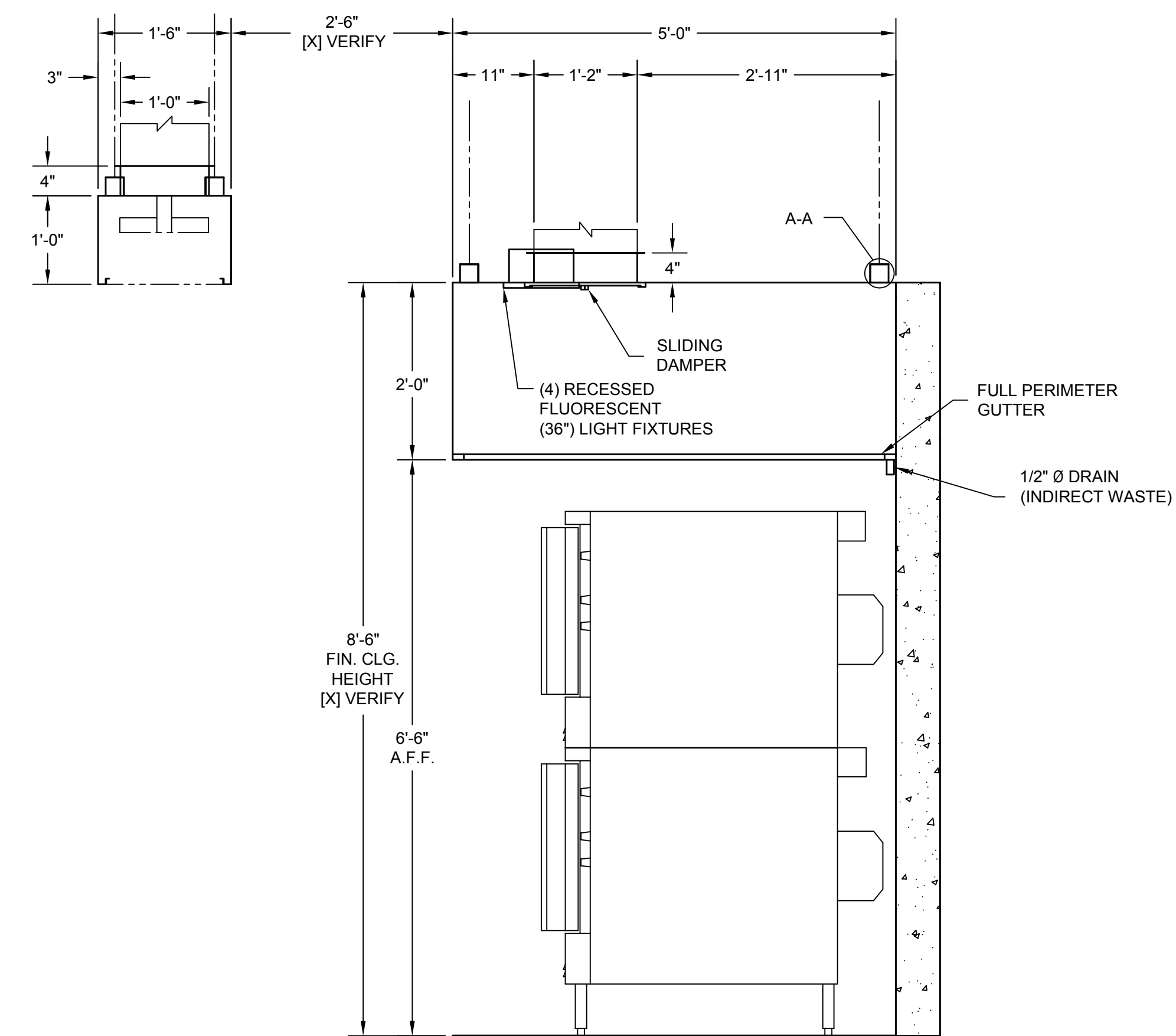
 509 Sharptown Road Bridgeport, NJ 08014-0345 Tel: 856-467-4222 Internet: www.caddycorp.com		P.O. Box 345 Fax: 856-467-5511
EQUIPMENT SCHEDULE		
ANSUL R-102 3		
CADDY NO.	10710-5	ITEM NO. 174.1A
JOB: READING HOSPITAL LOC: READING, PA CUST: SINGER EQUIPMENT CUST#: 03304717		
DATE	2-21-12	SCALE AS NOTED
DR BY	BJW	APP'D BY <i>BJW</i>
DWG# D-1-10710		SHT 7 OF 10



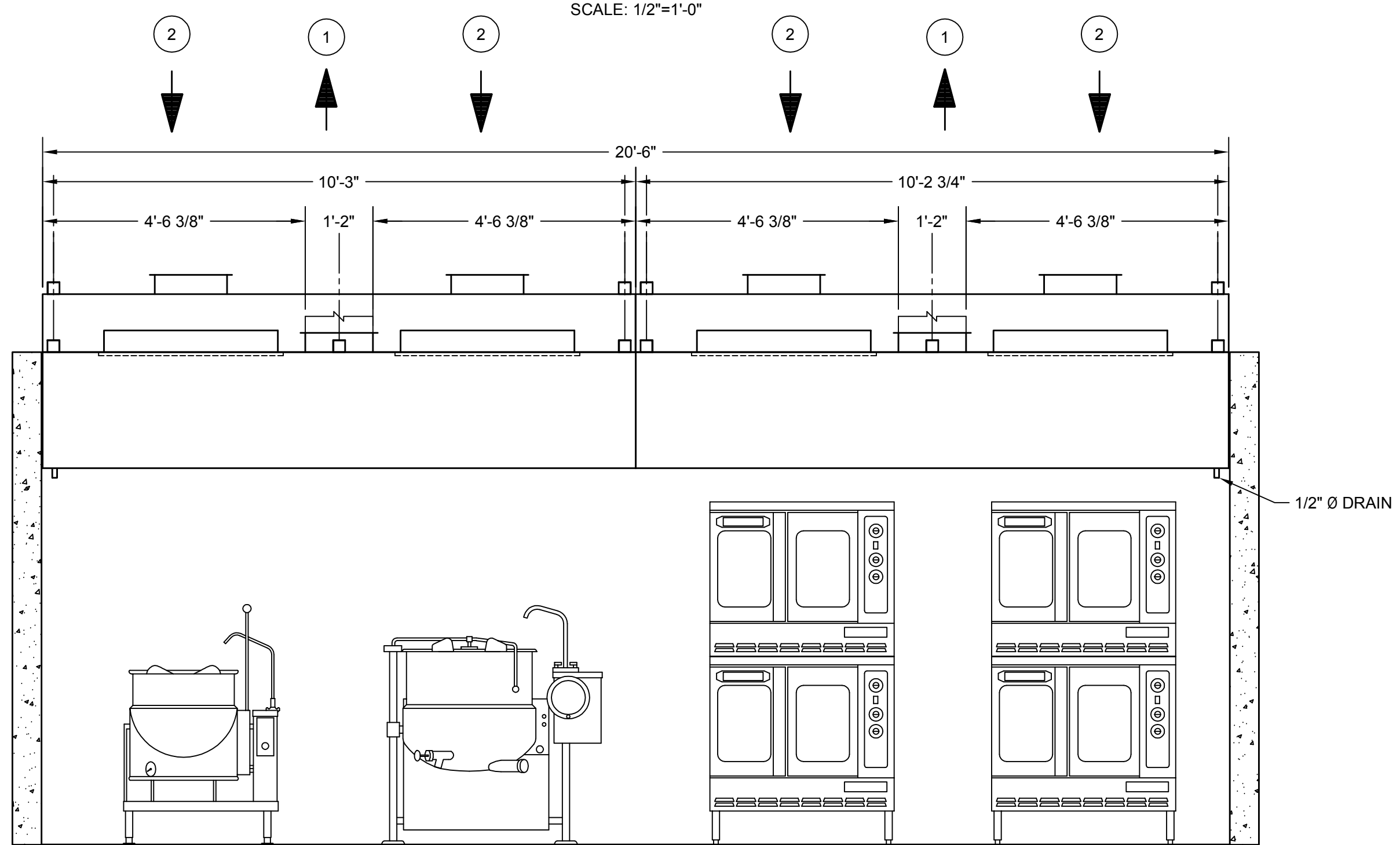
TOTAL EXHAUST : 4,266 C.F.M.
 TOTAL SUPPLY : 3,412 C.F.M.

- 1 14" X 14" EXHAUST DUCTS
2,133 C.F.M. EACH @ 1.60" S.P.
- 2 12" X 15" SUPPLY DUCTS
853 C.F.M. EACH @ 0.20" S.P.

PLAN
SCALE: 1/2"=1'-0"



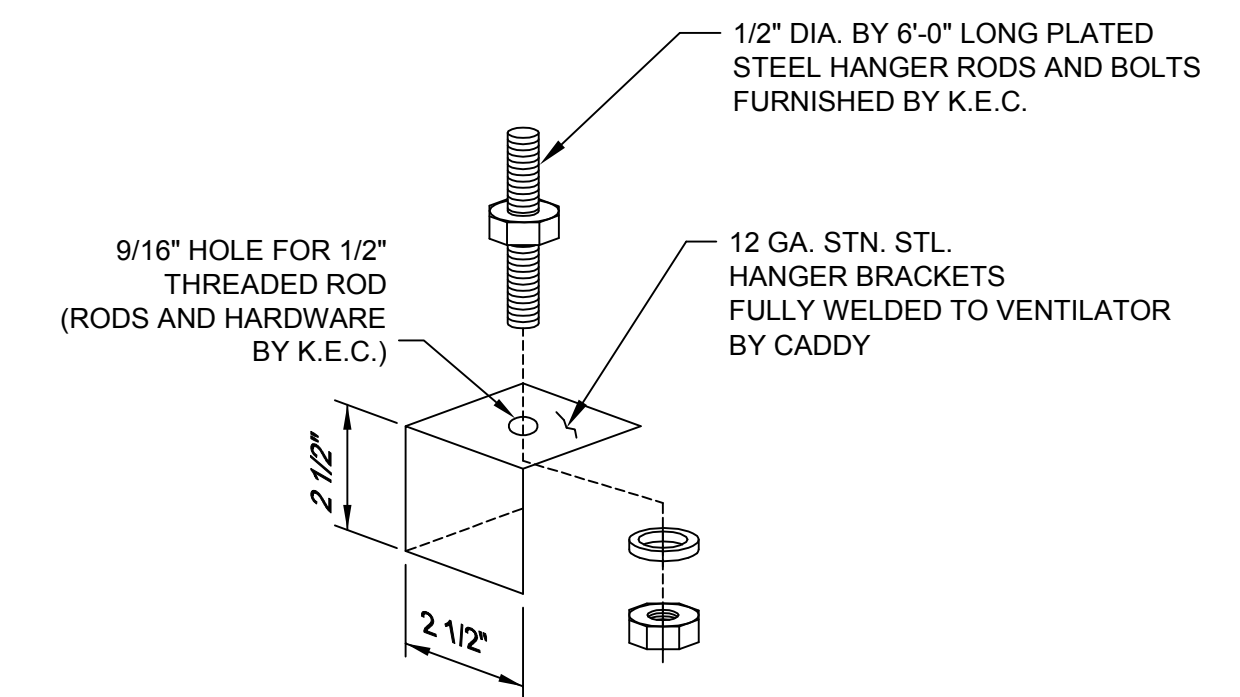
SECTION Z-Z
SCALE: 3/4"=1'-0"



ELEVATION
SCALE: 1/2"=1'-0"

ELECTRICAL NOTES:

- LIGHT FIXTURES, VAPORPROOF, U.L. LISTED, FURNISHED, INSTALLED AND WIRED TO J-BOX (D) BY CADDY. DISCONNECTED FOR SHIPPING AT J-BOX (C). RECONNECTED ON JOBSITE BY ELECTRICAL CONTRACTOR.
- LIGHT SWITCH FOR LIGHT FIXTURE WITH 120 VOLTS A.C. SERVICE BY ELECTRICAL CONTRACTOR.



HANGER BRACKET DETAIL A-A
SCALE: 1/4"=1"

THE CADDY VENTILATOR TESTING, LISTING AND APPROVAL REFERENCES:

NATIONAL SANITATION FOUNDATION
Standard #2 - "Food Service Equipment"



INSTALLATION INFORMATION

ALLOW SUFFICIENT ACCESS TO BRING VENTILATOR INTO KITCHEN AREA. MAXIMUM VENTILATOR DIMENSIONS: 10'-8" LONG x 5'-0" WIDE x 28 1/2" HIGH. ESTIMATED HANGING WEIGHT: 1,173 LBS.

VENTILATOR TO BE SHIPPED IN (2) UNITS. ALL PLUMBING AND ELECTRICAL DISCONNECTED FOR SHIPMENT. RECONNECTED IN FIELD BY PLUMBING AND ELECTRICAL CONTRACTORS.

ROUGH-IN SCHEDULE

SYM	QTY	DESCRIPTION
D	1	120V, 60HZ, 1PH, 0.32 K.W. CONNECTED LOAD

GENERAL CONTRACT CONDITIONS

ELECTRICAL WORK DONE BY CADDY CORPORATION IS EXECUTED IN COMPLIANCE WITH STANDARDS PUBLISHED BY THE UNDERWRITER'S LABORATORIES, INC. INsofar AS APPLICABLE, AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC). CADDY CORPORATION DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE REQUIREMENTS OF ANY REGIONAL AND/OR LOCAL CODES THAT ADD OR DEVIATED FROM THE ACCEPTED STANDARDS OF THE ABOVE AGENCIES. ANY FIELD WORK RELATING TO THE MODIFICATION OF ELECTRIC OR PLUMBING SYSTEMS, TO MEET REGIONAL OR LOCAL CODE REQUIREMENTS, IS TO BE DONE BY OTHERS AND WITHOUT BACK CHARGES TO CADDY CORPORATION, UNLESS THESE CONDITIONS WERE PREVIOUSLY BROUGHT TO OUR ATTENTION AND ARE EXPRESSLY INCLUDED IN OUR WRITTEN QUOTATION. ALL WIRING AND PLUMBING AT THE JOB SITE IS THE RESPONSIBILITY OF OTHERS. EQUIPMENT WILL BE CONSTRUCTED IN ACCORDANCE WITH OUR DRAWING(S) WHICH MUST BE APPROVED PRIOR TO FABRICATION. ANY SUBSEQUENT CHANGES REQUIRED MUST BE SUBMITTED TO US IN WRITING AND ACKNOWLEDGED ON OUR STANDARD FORM.

NOTES

- AIR SYSTEMS SHALL NOT BE LIABLE FOR IMPROPER FUNCTION DUE TO CHANGE IN STATIC PRESSURE OR AIR VOLUMES SPECIFIED.
- ALL DIMENSIONS TO BE VERIFIED IN FIELD BY OTHERS BEFORE VENTILATORS ARE RELEASED FOR MANUFACTURE.
- INDICATE ALL BEAMS, COLUMNS, ETC. WHICH MAY CONFLICT WITH VENTILATOR OR EXHAUST OUTLET COLLAR(S) (INDICATE SIZE, LOCATION, AND HEIGHT ABOVE FINISHED FLOOR.)
- INSTALLING CONTRACTOR SHALL CHECK ALL BUILDING ACCESS, ENTRANCE AND FIELD CONDITIONS TO ENSURE SUFFICIENT CLEARANCE TO ALLOW VENTILATOR SECTION(S) (SIZE(S) AS DIMENSIONED ON THIS DRAWING) TO BE BROUGHT INTO BUILDING AND INSTALLED ACCORDING TO AIR SYSTEMS RECOMMENDATIONS.
- ALL EXHAUST DUCT COLLARS ARE INSIDE DIMENSIONS.
- ALL DUCTWORK BEYOND THE VENTILATOR OR EXHAUST DUCT COLLAR(S) TO BE PROVIDED AND INSTALLED BY OTHERS IN ACCORDANCE WITH JURISDICTIONAL CODES, AND MUST BE MECHANICALLY STRONG, AND GREASE AND WATER TIGHT.
- VENTILATOR(S) SHALL BE N.S.F. APPROVED AND SHALL BEAR N.S.F. LABELS VISIBLY AFFIXED TO EXTERIOR.
- VENTILATORS CONSTRUCTED OF 18 GA. STAINLESS STEEL.

REVISIONS

REV	DATE	BY	REMARKS
A	4-18-12	DRA	ADDED MUA
B	5-31-12	DRA	NO CHANGES
C	11-2-12	DRA	REVISED PER RECEIVED P.O.
D	1-7-13	DRA	REVISED TO FLUORESCENT LIGHTS AND UPDATED EQUIPMENT UNDER HOOD
E	01/14/13	DME	REVISED FOR FABRICATION PER "APPROVED AS NOTED" DRAWING RECEIVED ON 01/14/13.

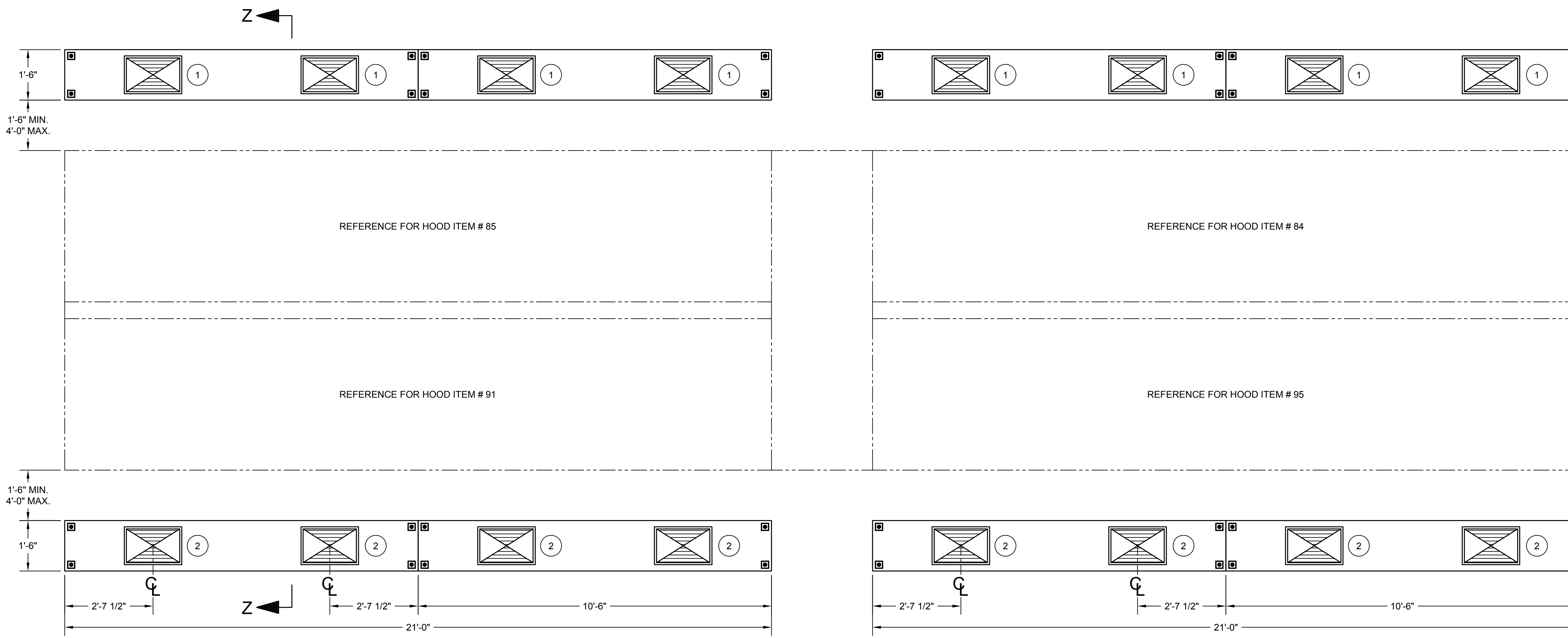
CADDY CORPORATION
 509 Sharptown Road
 Bridgeport, NJ 08014-0345
 Tel: 856-467-4222
 Internet: www.caddycorp.com
 P.O. Box 345
 Fax: 856-467-5511

EQUIPMENT SCHEDULE

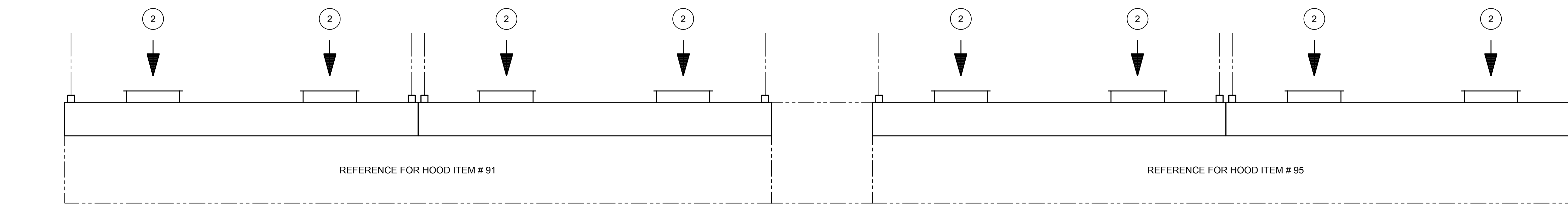
CH-C-W-122.75-SD-60

CADDY NO. 10710-A ITEM NO. B1

JOB: READING HOSPITAL
 LOC: READING, PA
 CUST: SINGER EQUIPMENT
 CUST#: 03304717



PLAN
SCALE: 1/2"=1'-0"



ELEVATION
SCALE: 1/2"=1'-0"

MAKE-UP AIR CONNECTION SIZES AND VOLUMES TO BE CONFIRMED PRIOR TO FABRICATION. [] VERIFY

GENERAL CONTRACT CONDITIONS

ELECTRICAL WORK DONE BY CADDY CORPORATION IS EXECUTED IN COMPLIANCE WITH STANDARDS PUBLISHED BY THE UNDERWRITER'S LABORATORIES, INC. INSOFAR AS APPLICABLE, AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC). CADDY CORPORATION DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE REQUIREMENTS OF ANY REGIONAL AND/OR LOCAL CODES THAT ADD OR DEVIATED FROM THE ACCEPTED STANDARDS OF THE ABOVE AGENCIES. ANY FIELD WORK RELATING TO THE MODIFICATION OF ELECTRIC OR PLUMBING SYSTEMS, TO MEET REGIONAL OR LOCAL CODE REQUIREMENTS, IS TO BE DONE BY OTHERS AND WITHOUT BACK CHARGES TO CADDY CORPORATION, UNLESS THESE CONDITIONS WERE PREVIOUSLY BROUGHT TO OUR ATTENTION AND ARE EXPRESSLY INCLUDED IN OUR WRITTEN QUOTATION. ALL WIRING AND PLUMBING AT THE JOB SITE IS THE RESPONSIBILITY OF OTHERS. EQUIPMENT WILL BE CONSTRUCTED IN ACCORDANCE WITH OUR DRAWING(S) WHICH MUST BE APPROVED PRIOR TO FABRICATION. ANY SUBSEQUENT CHANGES REQUIRED MUST BE SUBMITTED TO US IN WRITING AND ACKNOWLEDGED ON OUR STANDARD FORM.

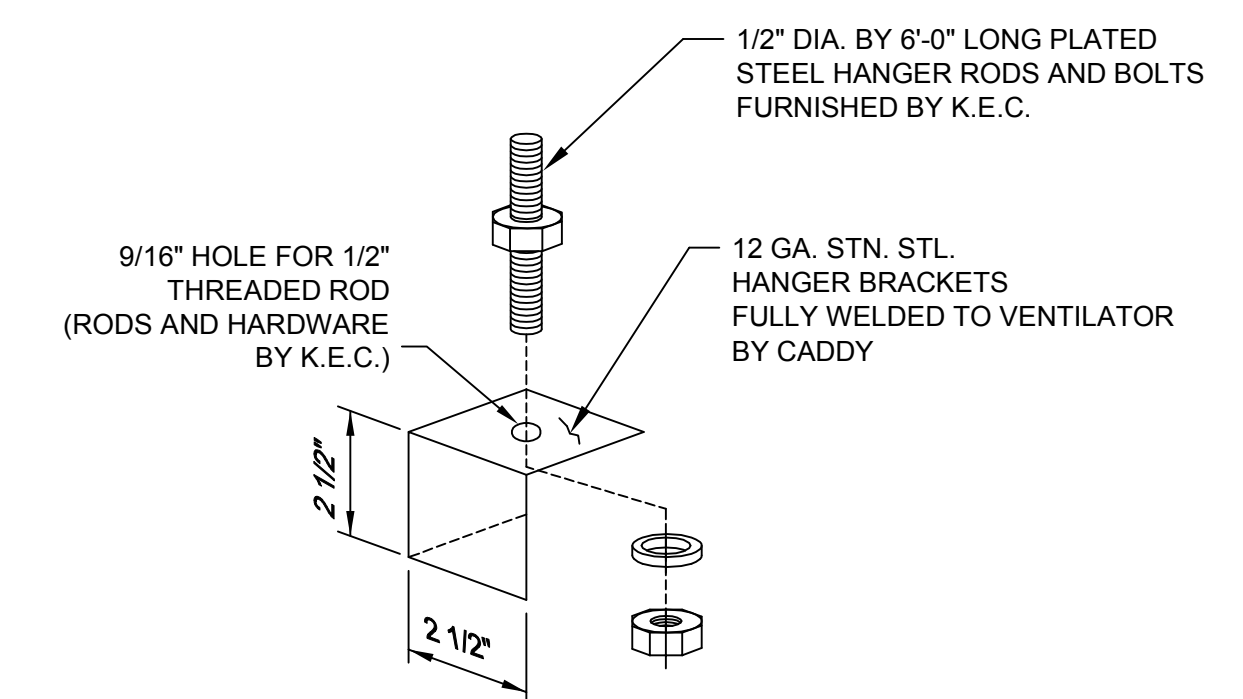
TOTAL SUPPLY : 17,560 C.F.M.

- 1 12" X 19" SUPPLY DUCTS
1,040 C.F.M. EACH @ 0.20" S.P.
- 2 12" X 19" SUPPLY DUCTS
1,155 C.F.M. EACH @ 0.20" S.P.

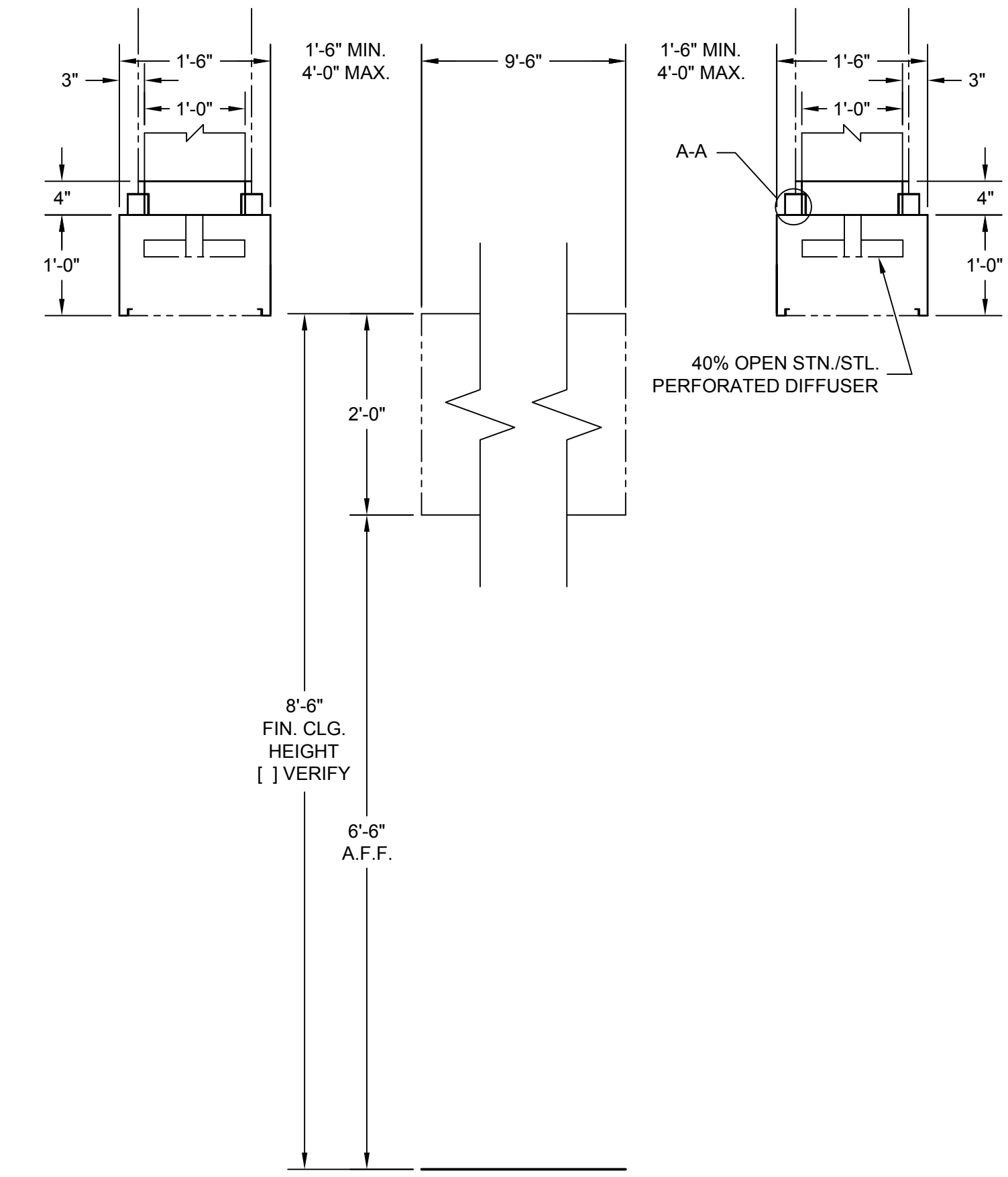
INSTALLATION INFORMATION

ALLOW SUFFICIENT ACCESS TO BRING VENTILATOR INTO KITCHEN AREA. MAXIMUM VENTILATOR DIMENSIONS 10'-6" LONG x 1'-6" WIDE x 16" HIGH. ESTIMATED HANGING WEIGHT: 1,260 LBS.

VENTILATOR TO BE SHIPPED IN (8) UNITS. ALL PLUMBING AND ELECTRICAL DISCONNECTED FOR SHIPMENT. RECONNECTED IN FIELD BY PLUMBING AND ELECTRICAL CONTRACTORS.



HANGER BRACKET DETAIL A-A
SCALE: 1/4"=1"



SECTION Z-Z
SCALE: 3/4"=1'-0"

REVISIONS			
REV	DATE	BY	REMARKS
A	4-18-12	DRA	ADDED MUA
B	5-31-12	DRA	NO CHANGES
C	11-2-12	DRA	REVISED PER RECEIVED P.O.
D	1-7-13	DRA	ADDED VERIFY NOTE
E	1-16-13	BJW	FABRICATED PER APPROVED DRAWINGS RECEIVED ON 1-12-13

CADDY CORPORATION
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EQUIPMENT SCHEDULE	
CEILING SUPPLY PLENUMS	
CADDY NO.	10710-B
ITEM NO.	
JOB: READING HOSPITAL LOC: READING, PA CUST: SINGER EQUIPMENT CUST#: 03304717	

DATE: 2-21-12
DR BY: BJW
SCALE: AS NOTED
APPD BY: BJW

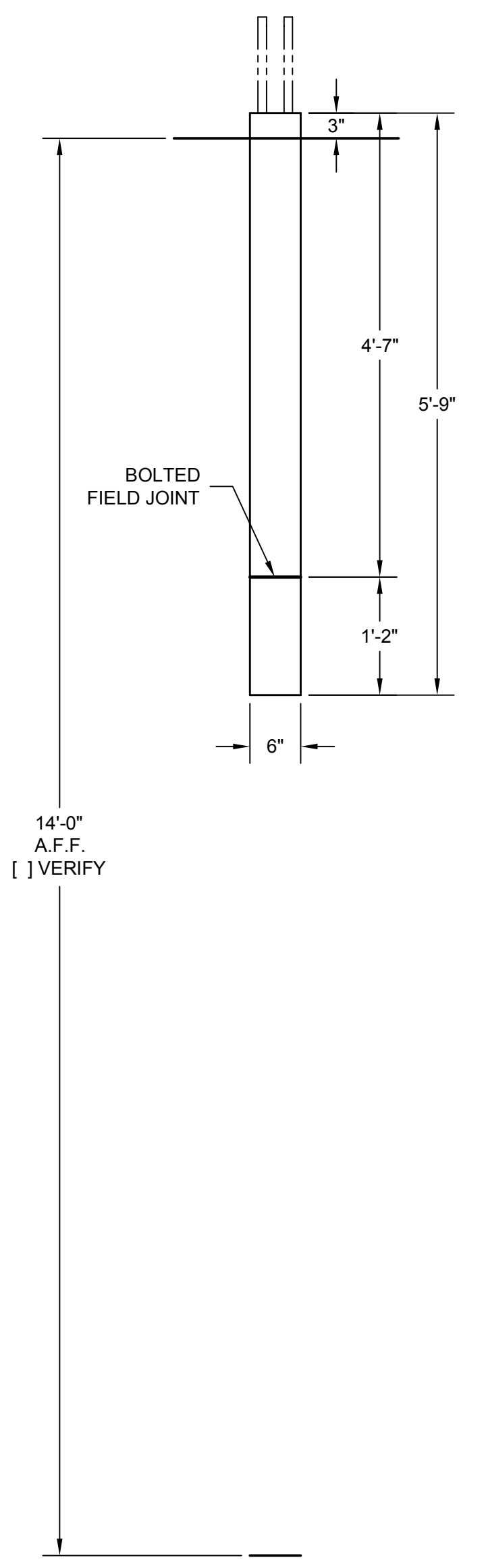
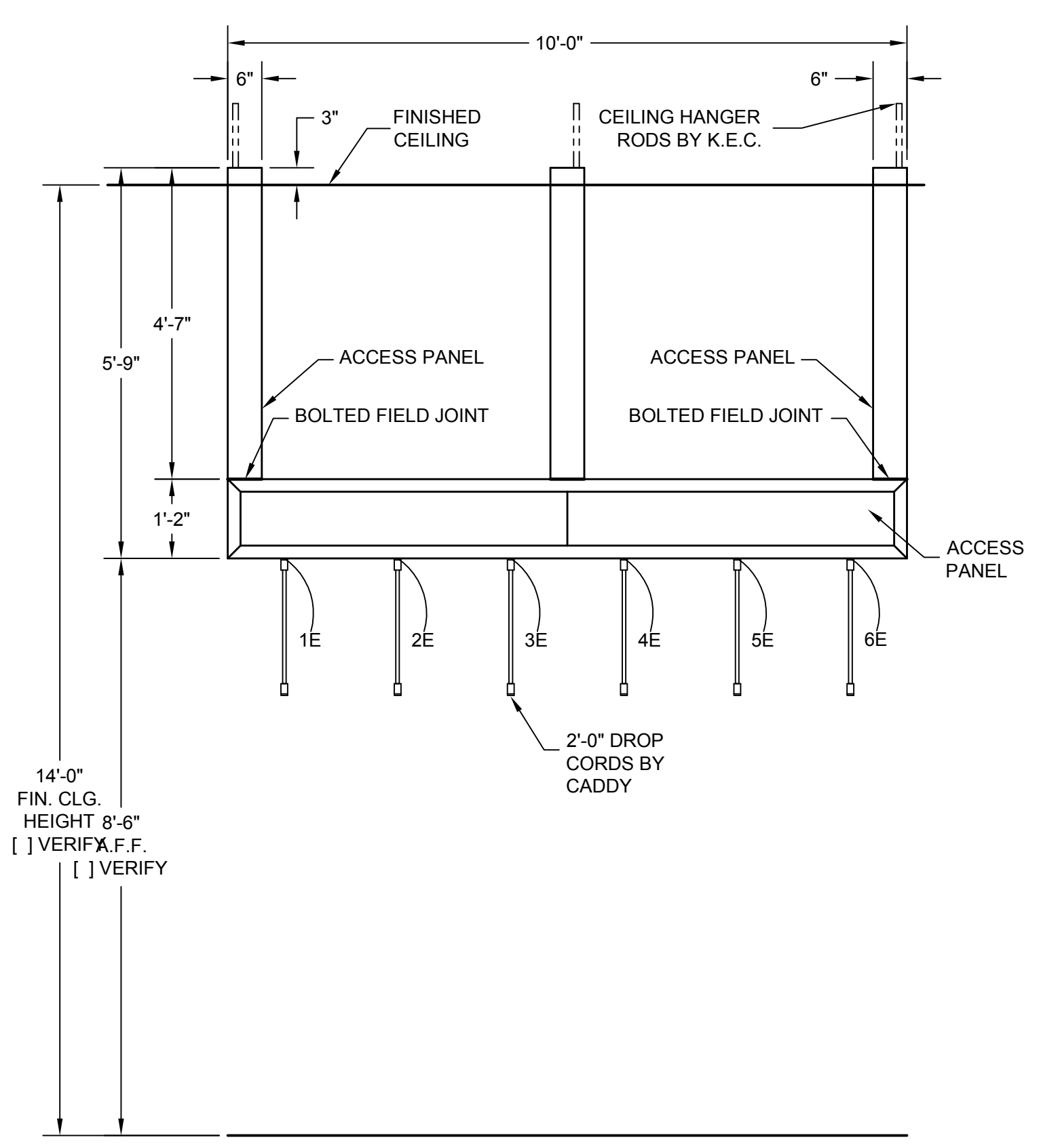
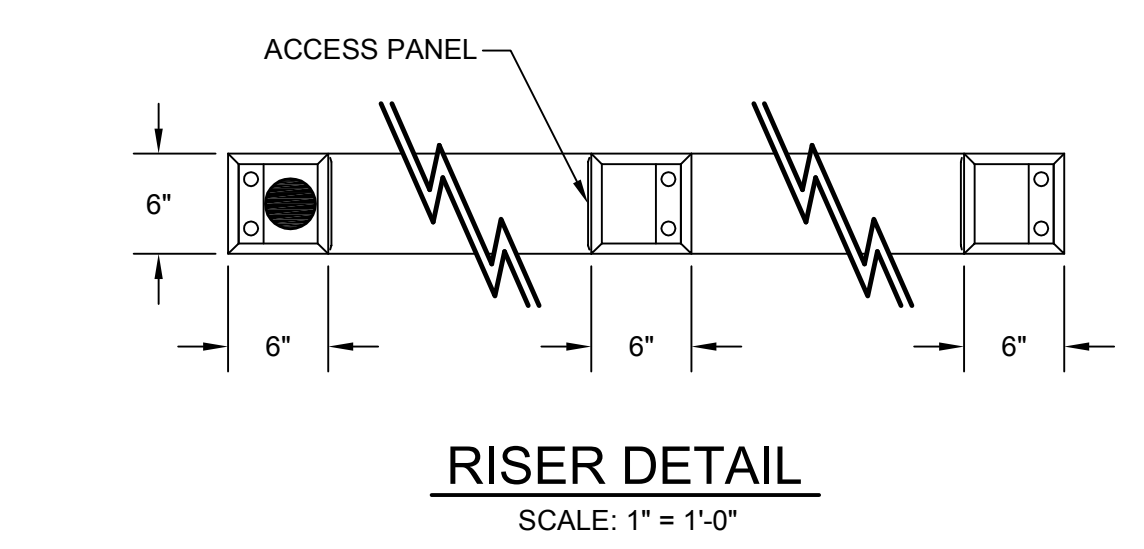
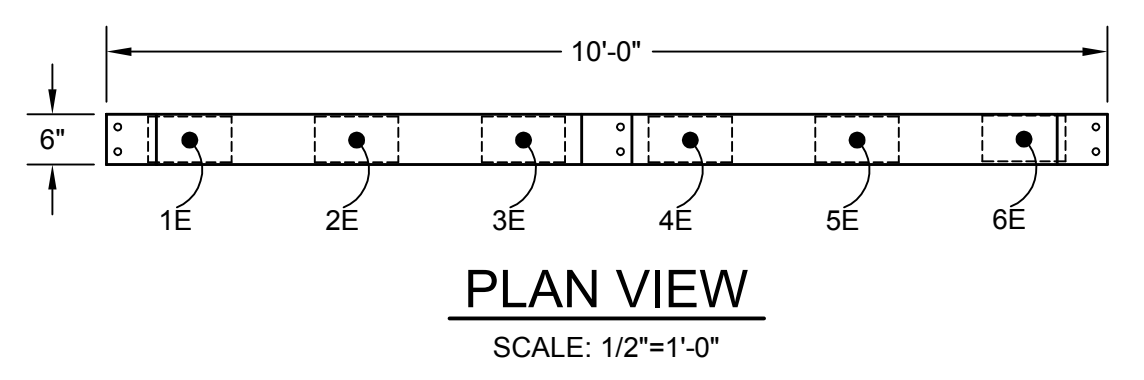
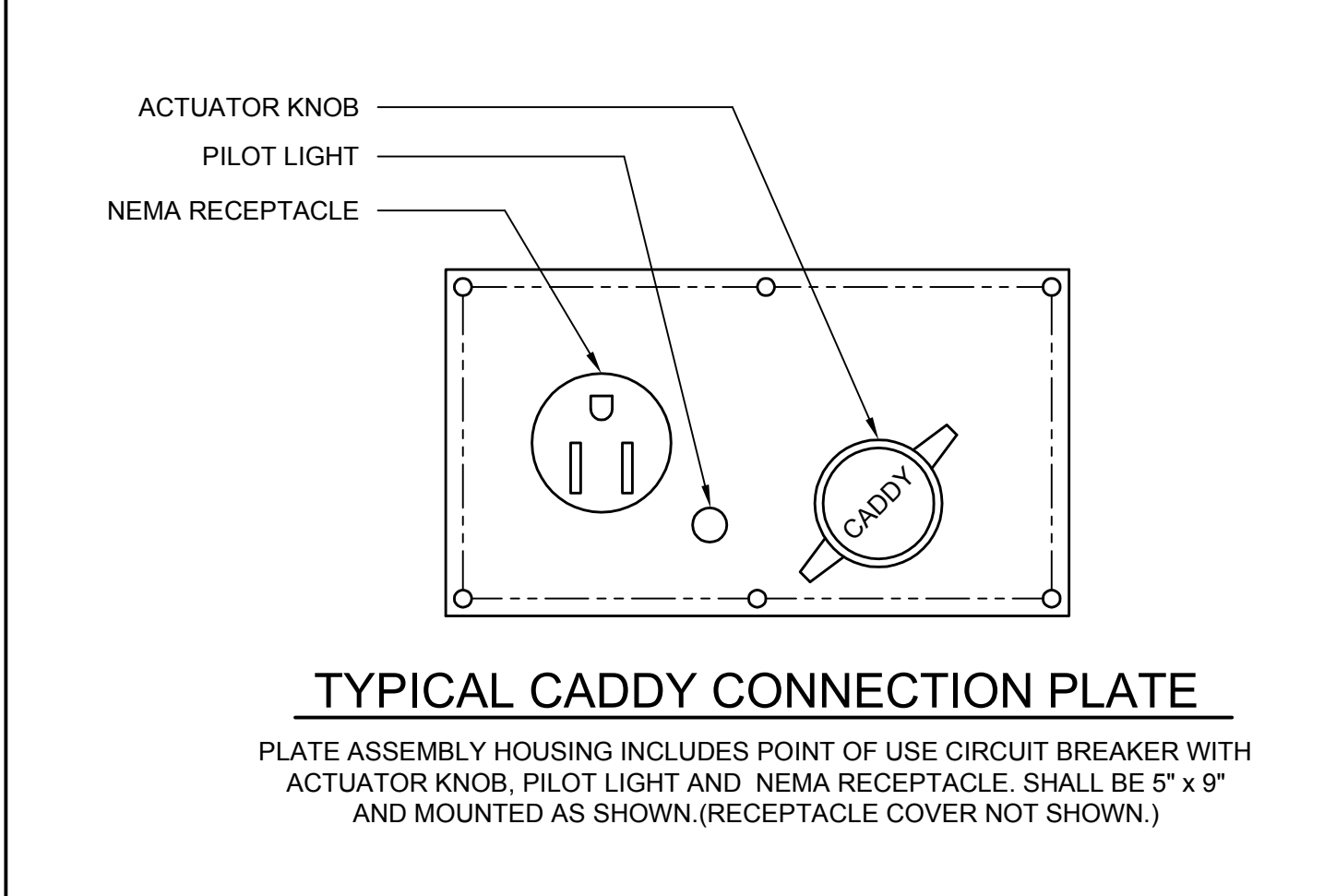
DWG# D-1-10710

SHT 9 OF 10

CONN. NO.	ITEM NO.	EQUIPMENT DESCRIPTION	ELECTRICAL						CONNECTIONS			PRE-FUEL SHUT-OFF	COULDED RESTRAINT DEVICE	
			KW	AMPS	VOLTS	Ø	BREAKER AMPS	NEMA NO.	OUTLET NO.	CONNECTION TYPE	CONN. LENGTH			CONN. STYLE
1E		TRAULSEN RAC39 REFRIGERATOR	1.7	14.3	120	1	20	L5-20R	2310A	CORD & PLUG	2'-0"		X	
2E		FUTURE EQUIPMENT	1.9	16	120	1	20	L5-20R	2310A	CORD & PLUG	2'-0"		X	
3E		TRAULSEN RAC39 REFRIGERATOR	1.7	14.3	120	1	20	L5-20R	2310A	CORD & PLUG	2'-0"		X	
4E		FUTURE EQUIPMENT	5.0	24	208	1	30	L6-30R	2620A	CORD & PLUG	2'-0"		X	
5E		TRAULSEN RAC39 REFRIGERATOR	1.7	14.3	120	1	20	L5-20R	2310A	CORD & PLUG	2'-0"		X	
6E		FUTURE EQUIPMENT	1.9	16	120	1	20	L5-20R	2310A	CORD & PLUG	2'-0"		X	

CONNECTION LEGEND

E=ELECTRICAL	G=GAS	SS=SUPERSWIVEL	CF=CIMFAST
S=STEAM SUPPLY	R=STEAM RETURN	DS=DOUBLE SUPERSWIVEL	GF=GROUND FAULT
H=HOT WATER	C=COLD WATER	QD=QUICK DISCONNECT	HC=HARD CONN.



ALL UTILITIES INCLUDE 25% OVER-CAPACITY FOR FUTURE EXPANSION

MAIN CIRCUIT BREAKER TO BE FURNISHED AND INSTALLED BY E.C. IN REMOTE LOCATION

(2) UNITS REQUIRED

NOTE: PLEASE SPECIFY MAKE, MODEL NUMBER, ELECTRICAL AND PLUMBING CHARACTERISTICS OF ALL ITEMS PLUGGING INTO RACEWAY.

CADDY WILL PROVIDE 2'-0" LONG DROP CORDS. (5) WITH A NEMA # 2311 LOCKING PLUG AND A NEMA # HBL5369C RECEPTACLE AND (1) WITH A NEMA # 2621 LOCKING PLUG AND A NEMA # 2623 RECEPTACLE.

EQUIPMENT CORD AND PLUG'S WILL BE INSTALLED AND FURNISHED BY E.C.

NOTE: ALL UDS COMPONENTS AND CONNECTION POINTS ARE DESIGNED FOR COPPER WIRE.



UTILITY DISTRIBUTION SYSTEM TO BE HARDWIRED AT TIME OF MANUFACTURE. EACH ELECTRICAL CONNECTION TO HAVE INDIVIDUAL BREAKERS LOCATED IN UDS RACEWAY.

- NOTES**
- THIS UNIT IS TO BE SHIPPED IN FOUR (4) PIECES AS SHOWN IN PLAN VIEW. [] VERIFY FOR ENTRANCE INTO BUILDING AND UNIT AREA.
 - [] VERIFY ROUGHING SCHEDULE.
 - NAT'L SANITATION FOUNDATION-STANDARD #2-"FOOD SERVICE EQUIPMENT". UNIFORM BUILDING CODE (ICBO), ETL LISTED, CONTROL # 3177269.
 - ALL "VERIFIES" ON THIS DRAWING MUST BE CONFIRMED. YOUR FABRICATION APPROVAL SHALL INDICATE YOUR ACCEPTANCE AS SHOWN.
 - ELECTRICAL CONTRACTOR MUST ROUGH-IN UP TO THE MAIN CONNECTION POINT.

ROUGH-IN SCHEDULE

SYM	QTY	DESCRIPTION	PLEASE SPECIFY		
			CEILING	FLOOR	OTHER
●	1	120/208V, 3PH, 60Hz., 60 AMPS			

REVISIONS

REV	DATE	BY	REMARKS
B	5-31-12	DRA	ADDED UDS ITEM # 66.1
C	11-2-12	DRA	REVISED PER RECEIVED P.O.
D	1-7-13	DRA	ADDED DROP CORDS AND VERIFIES TO DRAWING

CADDY CORPORATION
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 Bridgeport, NJ 08014-0345
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 P.O. Box 345
 Fax: 856-467-5511

EQUIPMENT SCHEDULE

UTILITIES DISTRIBUTION SYSTEM
 MODEL: CA-OD-E-010 10'-0" LONG

CADDY NO. 10710 ITEM NO. 66.1

JOB: READING HOSPITAL
 LOC: READING, PA
 CUST: SINGER EQUIPMENT
 CUST#: 03304717

DWG# D-1-10710

GENERAL CONTRACT CONDITIONS

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CODE COMPLIANCE

THE UTILITY DISTRIBUTION SYSTEM SHALL BE ETL LISTED UNDER THE CATEGORY "UTILITY DISTRIBUTION SYSTEM" AND MANUFACTURED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATES (NEMA), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PAMPHLET NUMBER 96 AND 54, UNIFORM PLUMBING CODE (UPC), AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), NATIONAL SANITATION FOUNDATION (NSF), AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) USING ONLY U.L. LISTED, BUREAU OF MINES RATES, AGA CERTIFIED AND CGA CERTIFIED COMPONENTS.