DT CHOICE 120VAC

OUTDOOR DRIVE-THRU MENU BOARD

INSTALLATION INSTRUCTIONS & USER GUIDE

It is the intent of these drawings to be used as guidelines only, for the installation of the equipment illustrated. The information contained in these documents has set forth certain assumed conditions. It shall be the responsibility of the purchaser and his contractor to verify these assumptions with local governing agencies. In addition, certain assumptions have been made and noted on the drawings and specifications for soil bearing capacity. It shall be the responsibility of the purchaser and his contractor to verify these assumptions and make the necessary revisions to the structure and the parking lot design, as indicated on the site documents provided by the owner/tenant. It shall be the responsibility of the purchaser and his contractor to submit these documents to the proper governing agencies for their review and to make all necessary modifications and/or revisions.

IMPORTANT: IF AN OPTIONAL APPENDAGE IS TO BE INSTALLED, IT IS RECOMMENDED THAT IT BE MOUNTED ON THE SIDE FARTHEST FROM THE DRIVE. IF THIS IS NOT FEASIBLE, CARE SHOULD BE TAKEN TO ALLOW AMPLE CLEARANCE BETWEEN THE DRIVE AND THE APPENDAGE. FOR INSTALLATION OF THE OPTIONAL APPENDAGE, REFER TO INSTRUCTION SHEET PROVIDED WITH APPENDAGE.

NOTE: For new concrete installations, it is possible that you have only received the necessary hardware to mount the pedestal base. This hardware is listed under item #1, below.

1. Before beginning installation, check that you have all required hardware:

A.	One (1) Template		A.	Two (2) Templates
B.	Four (4) Anchor Bolts	**OR**	B.	Eight (8) Anchor Bolts
B.	Eight (8) Hex Nuts		C.	Sixteen (16) Anchor Bolts

2. Determine whether the menu board will be installed on a curved or straight drive **(see Diagram A)**. Follow the proper detail for information about locating the menu board and optional speaker post. Note: These diagrams are to be used as a guide only; if they cannot be followed exactly, some modification may be made to allow for the best suited location for your installation.

3. If the menu board is to be set back from the remote speaker / microphone post, **see Diagram B** for recommended positions. Construct mounting post foundation referencing **Diagram D**, and in accordance with local codes. Note: The conduit for the high voltage (120VAC) wiring must run into the back hole of the pedestal base (as viewed from the front of the menu board). Secure the template as shown in **Diagram D**, Template. **Note: Four (4) hex nuts are embedded in the foundation below the template, and four (4) more are above it.** Be sure that the 3/4" diameter anchor bolts extend 2-3/4" above grade. For speaker post foundation construction and installation, refer to the outdoor remote speaker system installation instructions, provided with the outdoor remote speaker system.

If the menu board is to be curbside with the speaker and microphone built in, **(see Diagram C)**. **WARNING: DO NOT ROUTE THE SPEAKER OR MICROPHONE CABLES THROUGH THE SAME CONDUIT WITH 120VAC ELECTRICAL WIRING. THIS VIOLATES ELECTRICAL CODES, PRESENTS A SAFETY HAZARD, AND CAN CAUSE HUM PICKUP. THE CONDUIT FOR THE HIGH VOLTAGE (120VAC) WIRING MUST RUN INTO THE BACK HOLE OF THE PEDESTAL BASE** (as viewed from the front of the menu board). The conduit for the low voltage speaker/microphone wiring runs through the hole in the front of the pedestal base plate. Be sure to study the diagrams and template before construction. Construct mounting post foundation referencing **Diagram D, Figures 1A and 1B**, and in accordance with local codes.

4. The high voltage conduit must be installed in place by a qualified contractor. It runs from the power source to the menu board location. A conduit stub should protrude 4" above the concrete slab **(see Diagram D, Figure 1B)**. Use the template supplied for the correct relation between the mounting bolts and the conduit location. Power and ground leads should be pulled through the conduit approximately 12" beyond the conduit stub, and be accessible at the time of final wiring. **Note: The 120VAC power lines run up the inside back of the pedestal base (see Diagram D, Template)**.

5. After the location is established, pour the concrete footing per local codes. While the concrete is still soft, insert the four (4) anchor bolts. Use the supplied template as a bolt and conduit locator. Anchor bolts should be 2-3/4" above grade **(see Diagram D, Figure 1B)**. **Note: Prior to placing the template down, one (1) nut must be threaded onto each anchor bolt and sunk into the concrete, flush with the top of the nut (see Diagram D, Figures 1A and 1B).** Place the template over the four (4) anchor bolts and secure in place with four (4) more nuts.

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6. After the concrete has set, remove template and discard. **NOTE: Do not discard the four (4) nuts that were just removed.**

7. The pedestal base plate is now ready to be mounted. Remove any concrete residue from the threads of the anchor bolts. Thread one (1) nut onto each bolt until it stops; then put a flat washer over each bolt. Feed the 120VAC power lines and ground lead into the inside back hole of the bottom of the pedestal base **(see Diagram F).**

8. The top surface of the pedestal base should be rough leveled at this time. Adjust the upper and lower hex nuts until the pedestal base is level and tighten. **NOTE: Final leveling can be done after the menu board is in place (if required).** Use the same procedure as above.

9. Prepare the pedestal base for mounting the menu board in the following manner:**(See Diagram E**)
   A. Remove the menu post access cover.

10. Locate the power leads. These will be hanging from the opening in the bottom of the menu board.

11. **OPTION** (This pertains to the 5 smallest units seen in **Diagram G**) Lift the menu board into position, so that the holes in the pedestal base align with the holes in the bottom of the unit. Before placing the menu board all the way down, feed the power leads and ground lead from the menu board opening into the menu post opening.

12. The menu board is factory wired and needs only to be energized on the job site. This should be done by a qualified electrician only. No disassembly is required. **FOR MENU BOARDS WITH BUILT-IN SPEAKER/MICROPHONE ONLY:** If your menu board has a built-in speaker, run low voltage wires for speaker/microphone unit through the hole in front of the menu board. Connect speaker/microphone to communication system, as indicated (**See Diagram H**)

13. Connect unit power leads and grounding conductor (green lead) to the power source. Power source must be 120VAC, 60 Hz. Energize the circuit to check the operation. **WARNING: DO NOT CONNECT THE SPEAKER WIRE TO 120VAC (POWER SOURCE).**

14. Connect the speaker/microphone (if provided) to the internal communication system **(see Diagram H)**.

15. Replace the menu post access cover.

16. Wipe down the unit and clean all acrylic door windows, inside and out. **WARNING: ONLY USE A NON-ABRASIVE CLEANER AND SOFT CLOTH TO CLEAN THE ACRYLIC DOOR WINDOWS.**

SPECIFICATIONS:

Box Size: **Various Sizes (see Diagram G)**

Lamps: **Fluorescent T8 Lamps**

Electrical Requirements:
120VAC, 60 Hz

Data Requirements: CAT5

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OUTDOOR DRIVE-THRU MENU BOARD

INSTALLATION INSTRUCTIONS & USER GUIDE

BASE AND FOUNDATION

Menu Board and Speaker Post Location

SEE DIAGRAMS B AND C FOR DIMENSIONS

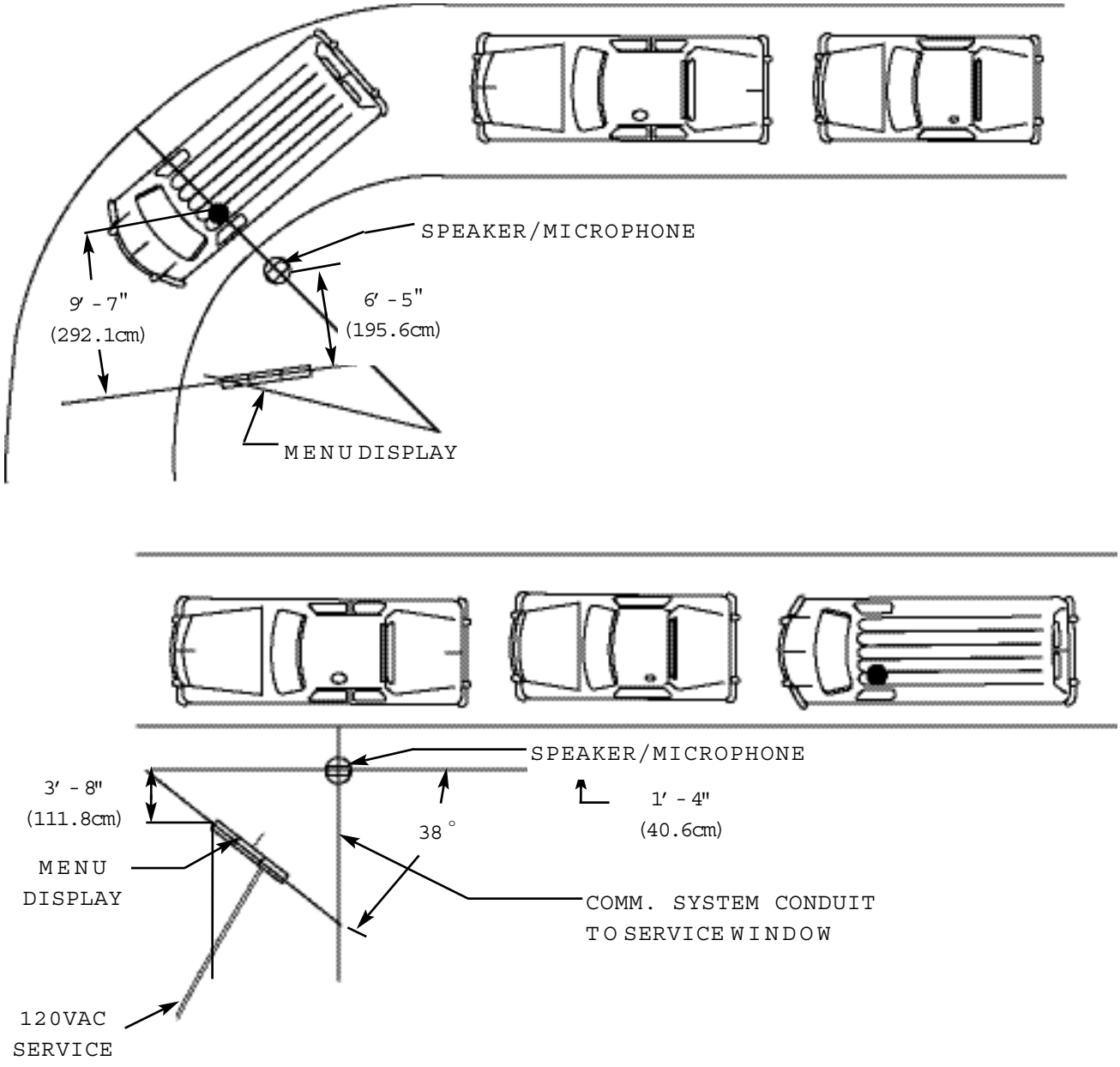

Diagram A

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MENU BOARD WITH REMOTE SPEAKER POST

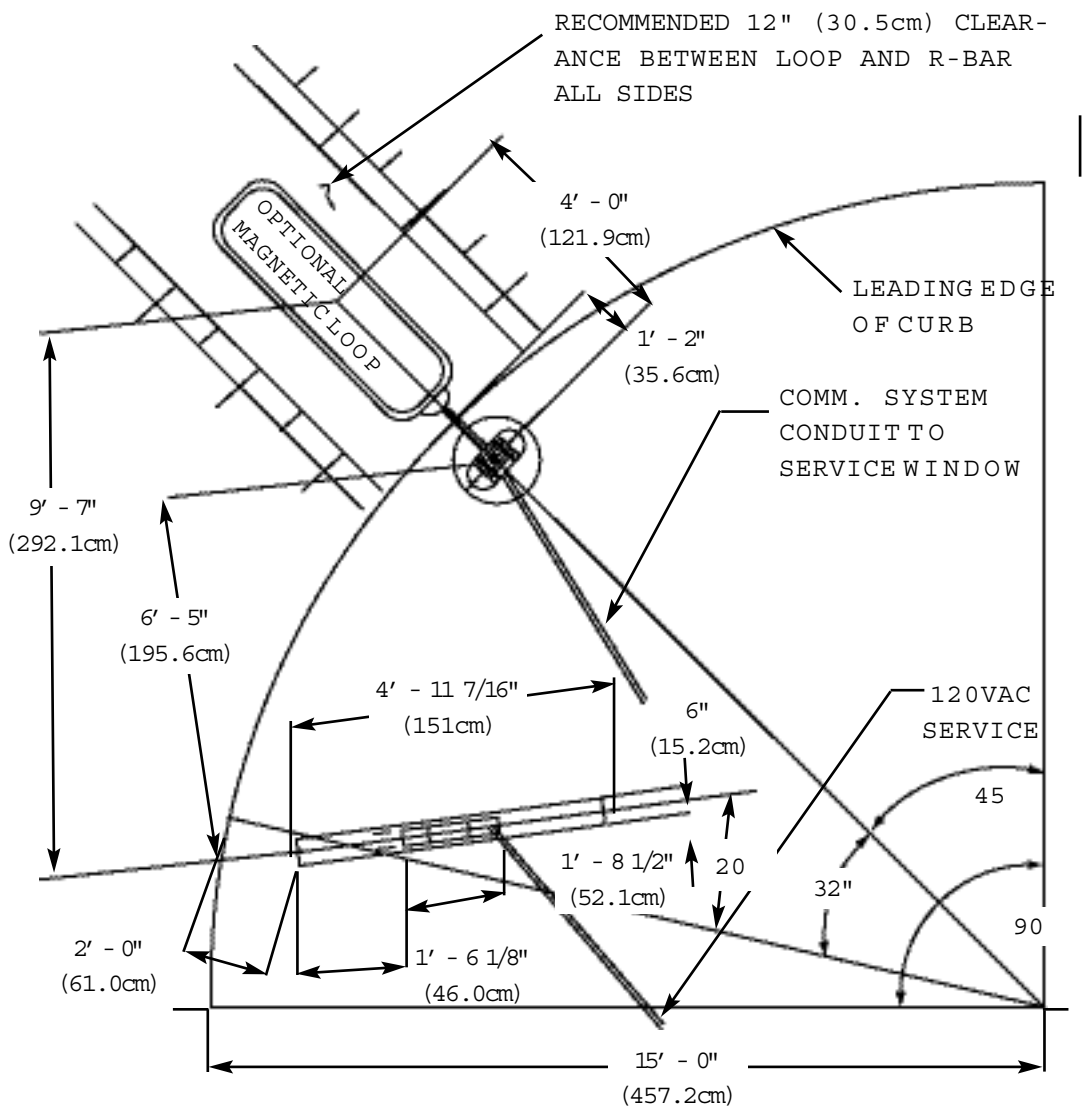

Diagram B

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MENU BOARD WITH BUILT-IN SPEAKER

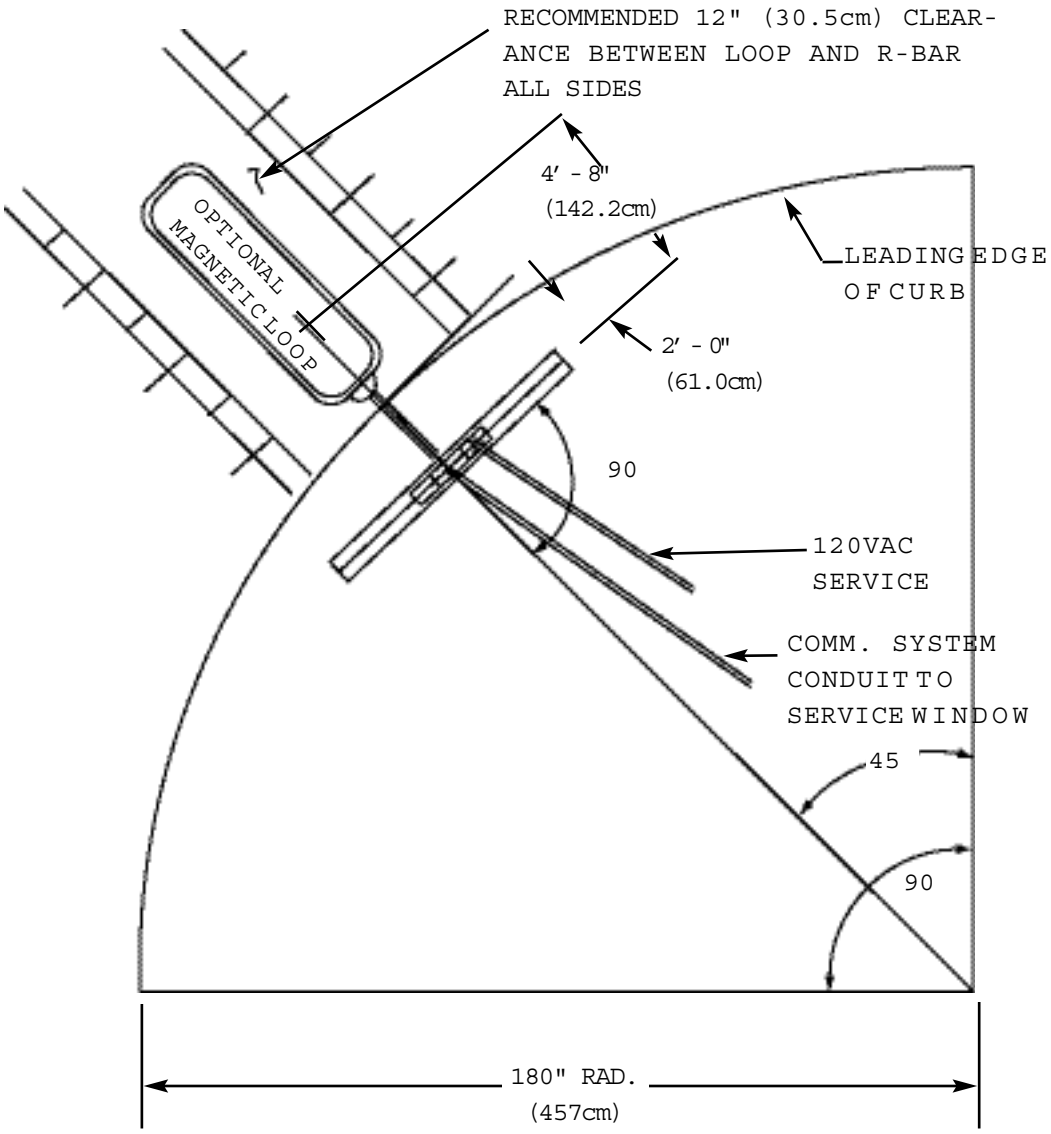

Diagram C

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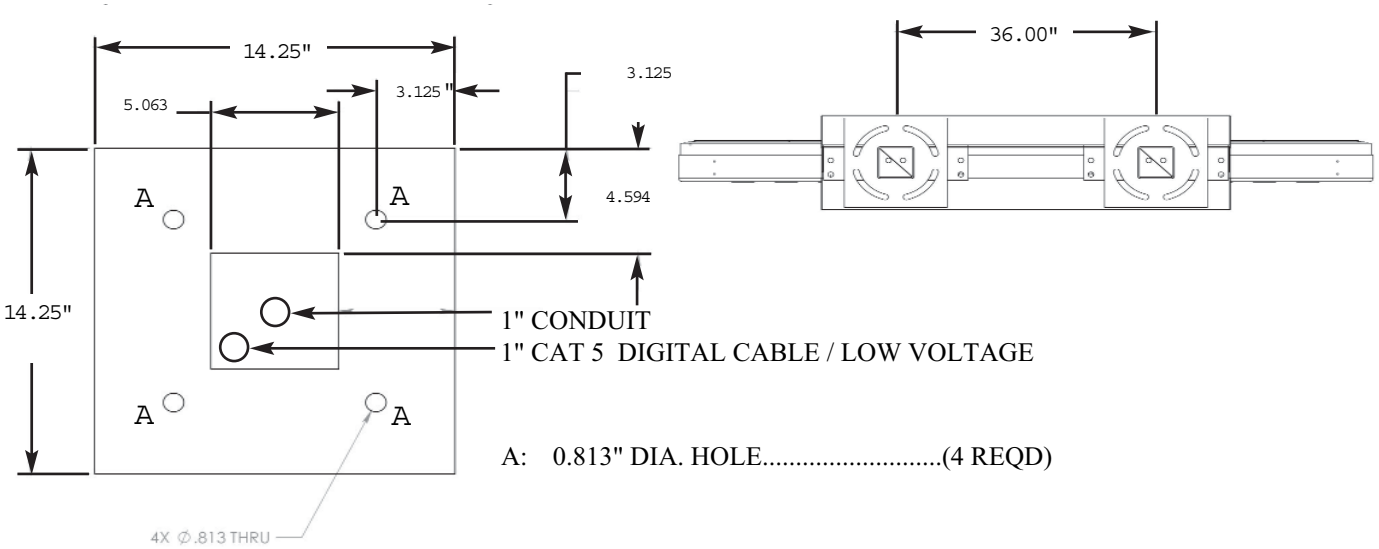
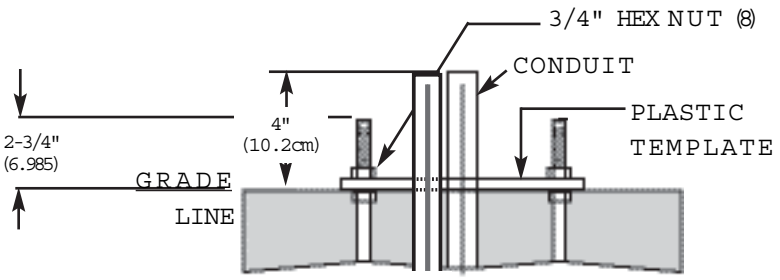


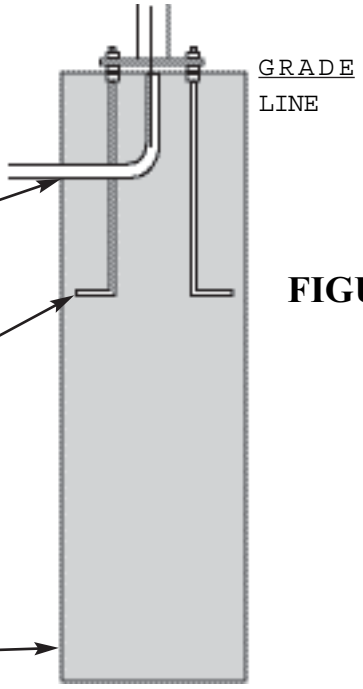
A: 0.813" DIA. HOLE.....(4 REQD)

FRONT OF MENU BOARD

FIGURE 1A



(FIG. 1B INSTALLATION DETAIL FOR ANCHOR BOLT LOCATIONS ON MENU BOARD BASE)



INSTALL ELECTRICAL CONDUIT THRU 7/8" (2.25cm) DIA. HOLE ON TEMPLATE. CONDUIT TO RUN DOWN VERTICAL LEG OF BASE AS VIEWED FROM FRONT OF MENU BOARD.

3/4" DIA. x 30" LG. ANCHOR BOLTS AT 2 3/4" (6.985CM) ABOVE GRADE. (BY GENERAL CONTRACTOR)

CONCRETE CASSION MUST CONFORM TO LOCAL CODES.

FIGURE 1B

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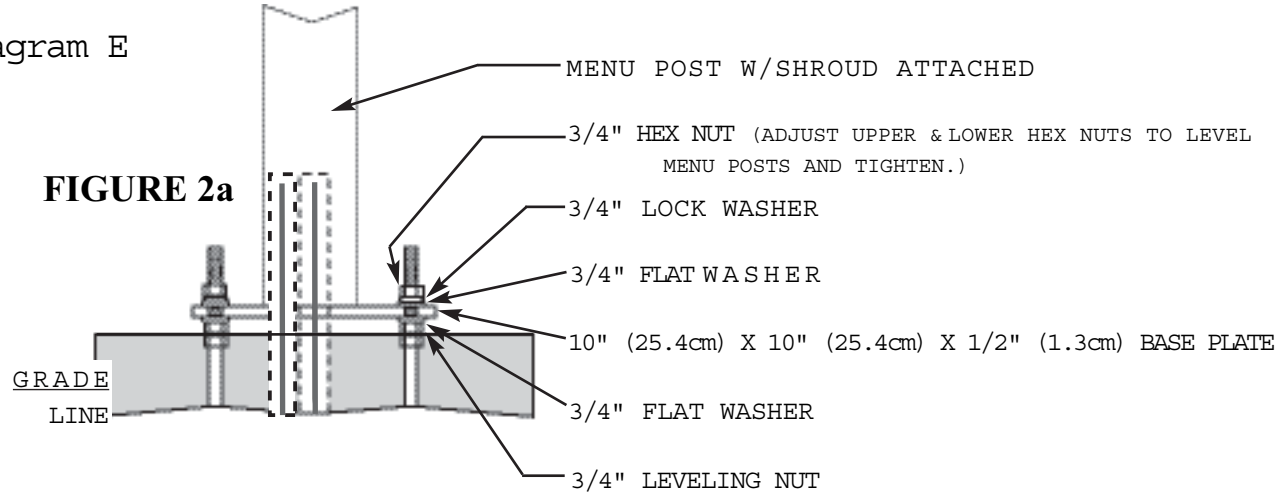
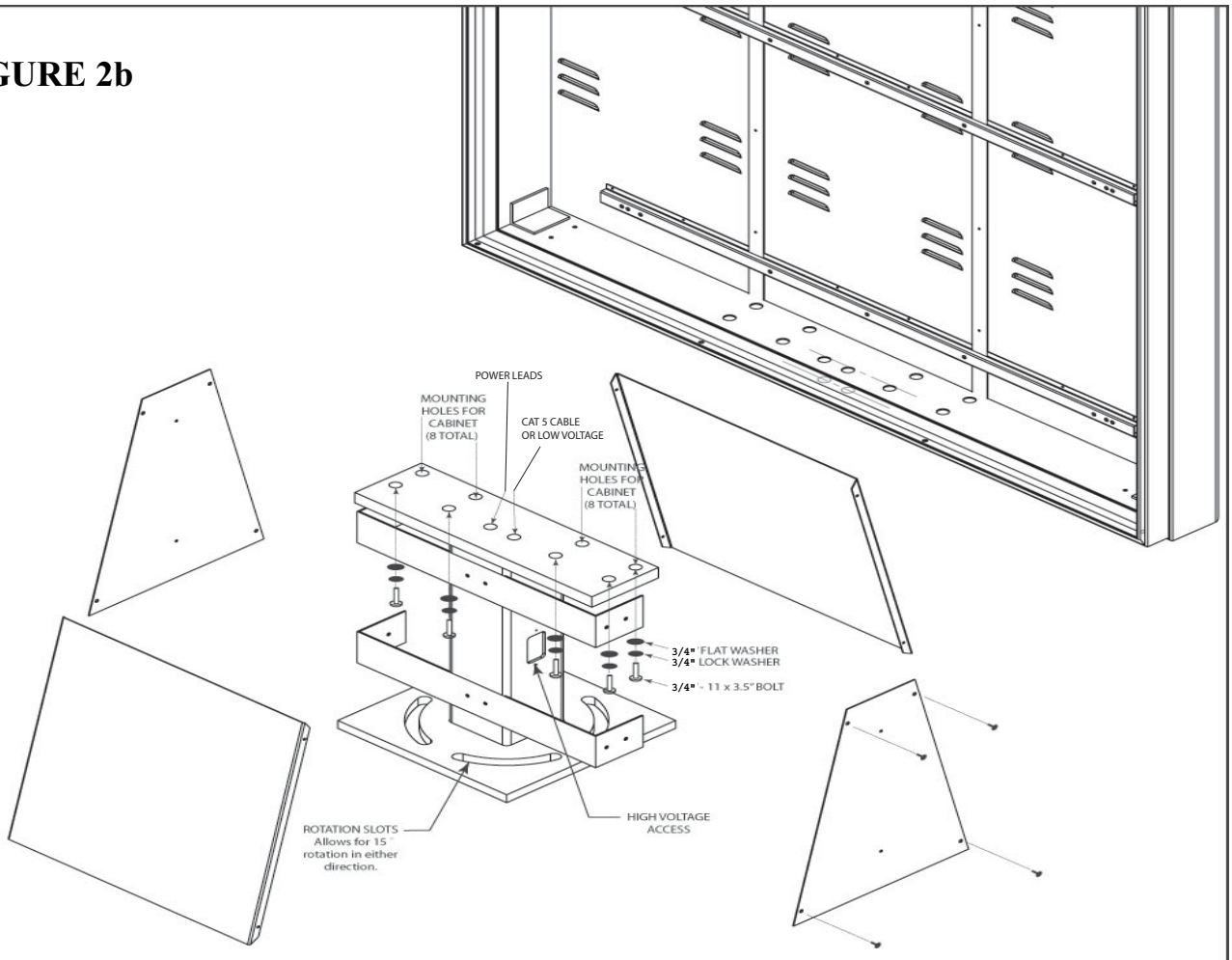
Diagram E

FIGURE 2a



BASE PLATE MOUNTING DETAIL

FIGURE 2b



PEDESTAL BASE & CABINET ASSEMBLY

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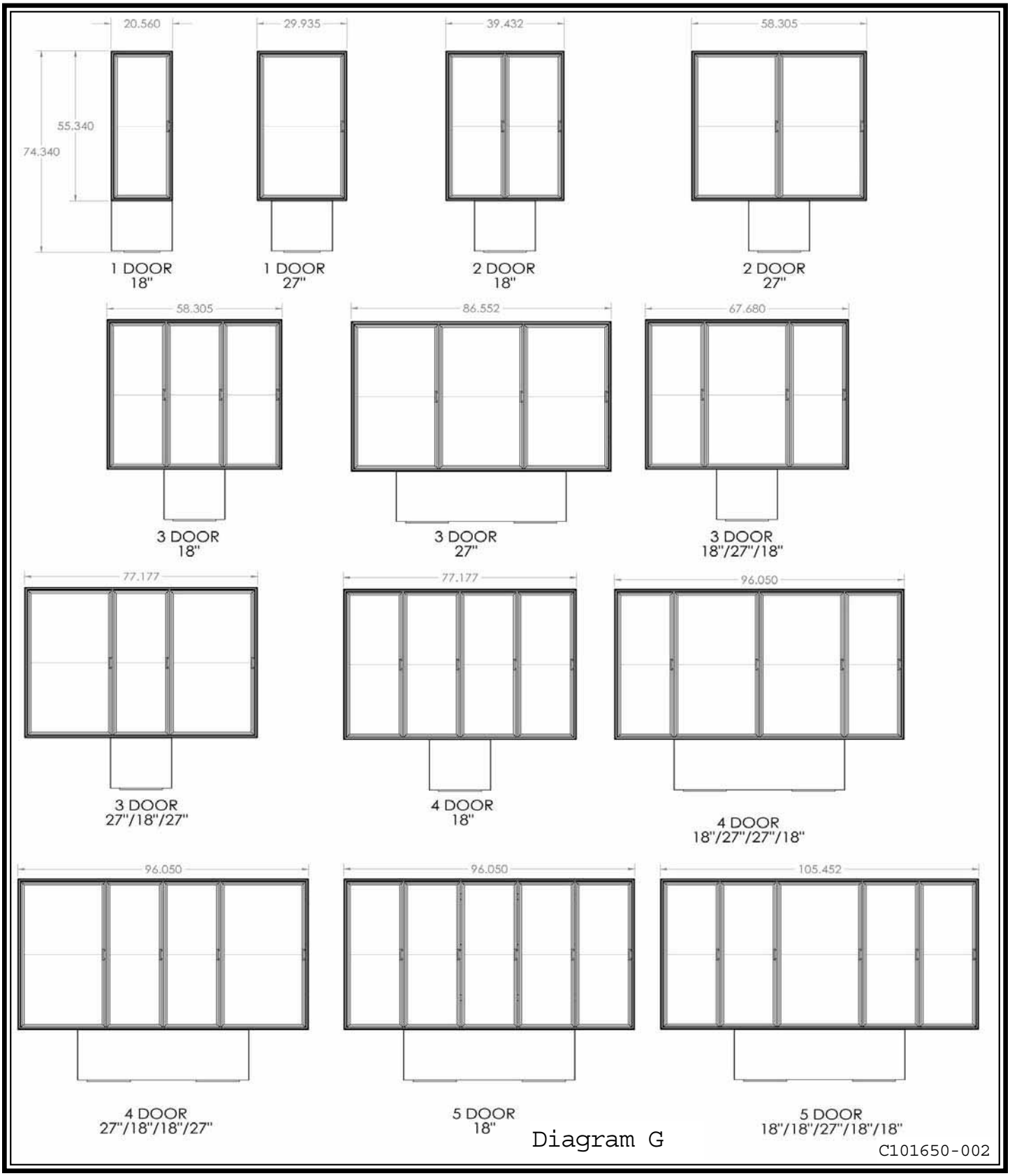

Diagram G

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FOR DUPLEX OPERATION

IMPORTANT: Audio cable must be shielded, twisted pair and the cable for the microphone must be a separate cable. If the microphone wiring is in a cable with other pairs (being used electrically in the system), communication problems will occur (See DIA. H).

SPEAKER SPECIFICATIONS

CABLE CONNECTIONS
Strip and tinned wires.
Speaker: 5 P.C. 3.0 oz, voice coil
Impedance: 8 Ohms,
Sensitivity: 92 db +/ 5 db at 1 watt,
1 meter,
Frequency response: 120 HZ 8 KHZ,
Rated power (RMS): 6 watts

MICROPHONE SPECIFICATIONS

CABLE CONNECTIONS
Strip and tinned wires.
SPI-20 MIcrophone
Sensitivity: -88 db + or - 3db
Impedance: 300 Ohms (Low) + or - 25%

DUPLEX

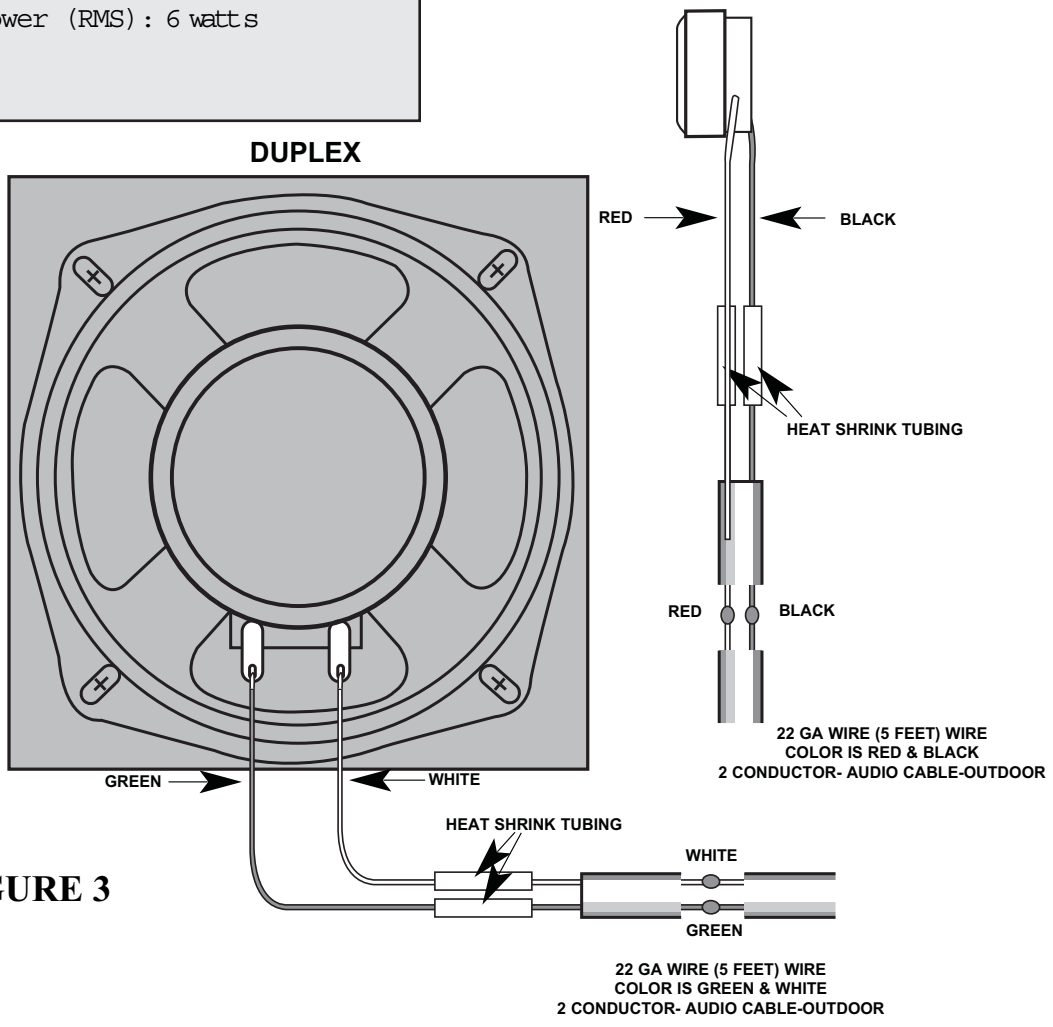

FIGURE 3

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