

CAR WASH LAYOUT

CAR WASH LAYOUT NOTES

NOTE #1: THE DISTANCE AVAILABLE BEFORE THE AUTO SENTRY ISLANDS SHOULD ALLOW, MINIMALLY, FOR EACH LANE TO ACCOMMODATE THREE TO FOUR VEHICLES, INCLUDING THE VEHICLE AT THE AUTO SENTRY.

NOTE #2: THIS IS LANE #1. IT IS THE LANE THAT IS THE FARTHEST TO THE LEFT WHEN APPROACHING THE AUTO SENTRIES TO PURCHASE A WASH. THE SUBSEQUENT LANE IS LANE #2. THIS IS IMPORTANT WHEN REFERENCING WHICH LANE, AND THEREFORE TRAFFIC GATE, THE STACKING LOOP WILL BE WIRED TO.

NOTE #3: THE DISTANCE FROM THE GATE CLOSING LOOPS TO THE STACKING LOOP IS DETERMINED BY HOW QUICKLY AND SAFELY THE TWO AUTO SENTRY LANES CAN BE SAFELY FUNNELED DOWN TO A SINGLE LANE PRIOR TO A VEHICLE REACHING THE CORRELATOR.

NOTE #4: THE STACKING LOOP IS PLACED WHERE ONLY ONE VEHICLE MAY PASS AT A TIME AND CENTERED IN THE LANE. IF VEHICLES AT LANES 1 & 2 SIMULTANEOUSLY PURCHASE CAR WASHES ONLY ONE CAN GO FORWARD AT A TIME. IF THE GATE FOR LANE #1 OPENS, THE GATE IN LANE #2 WILL REMAIN CLOSED UNTIL THE VEHICLE FROM LANE #1 HAS PASSED COMPLETELY OVER AND BEYOND THE STACK CONTROL LOOP, THUS KEEPING THE VEHICLES IN THE PROPER ORDER WITHIN THE STACK. IF THE STACK CONTROL LOOP HAS BEEN PROPERLY LOCATED THEN THERE SHOULD BE NO POSSIBILITY OF THE VEHICLE FROM LANE #2 PASSING THE VEHICLE FROM LANE #1, THEREBY KEEPING VEHICLES IN THEIR PROPER ORDER.

NOTE #5: THE DISTANCE FROM THE STACKING LOOP TO THE CORRELATOR, MINIMALLY, SHOULD ACCOMMODATE THREE TO FOUR CARS, BUT HAVING THE SPACE FOR SIX OR MORE VEHICLES HAS PROVEN TO BE BEST. THESE CARS WOULD BE "ON STACK",

NOTE #6: A PULL-OUT LANE IS NOT A REQUIREMENT, BUT CAR WASHES HAVE INSTALLED THEM IN THE EVENT THAT A CUSTOMER CHANGES THEIR MIND ABOUT GETTING A CAR WASH AFTER THEY HAVE PURCHASED ONE. IT IS ALSO USEFUL IN ALLOWING CUSTOMERS THAT HAVE LOOSE ITEMS IN A TRUCK BED TO PULL OFF TO THE SIDE AND REMOVE THE LOOSE ITEMS WITHOUT CAUSING A DISRUPTION IN THE FLOW OF VEHICLES ENTERING THE TUNNEL. IF A PULL-OUT LANE IS UTILIZED IT SHOULD BE PLACED AFTER THE STACKING LOOP AND AS CLOSE TO THE ATTENDANT'S POSITION AS POSSIBLE. THIS WILL ALOOW THE FIRST CAR TO PASS OVER THE STACKING LOOP, THUS RELEASING THE GATE FOR A VEHICLE IN THE OTHER LANE THAT HAS FINISHED PURCHASING A CAR WASH AND IS WAITING FOR THEIR GATE TO OPEN.

NOTE #7: THE STAINLESS STEEL CABINET THAT NOMINALLY HOUSES THE INPUT TERMINAL AND TMJ KEYPAD SHOULD BE PLACED WHERE IT WOULD BE MOST CONVENIENT FOR THE CAR WASH ATTENDANT TO USE. AT CAR WASHES WHERE THE CORRELATOR AND CONVEYOR FULLY EXTEND BEYOND THE ACTUAL ENTRANCE OF THE TUNNEL, TO THE POINT THAT A VEHICLE IS COMPLETELY ON THE CONVEYOR AND HAS NOT YET ENTERED THE TUNNEL, THE STAINLESS STEEL CABINET SHOULD ALSO BE OUTSIDE THE ENTRANCE OF THE TUNNEL AS SHOWN IN THIS DRAWING (POSITION #1). IDEALLY IT IS PLACED RIGHT BEHIND WHERE THE ATTENDANT WILL NORMALLY BE STANDING WHEN ASSISTING CUSTOMERS, SO THAT THE ATTENDANT NEED ONLY TURN TO MANIPULATE EITHER THE INPUT TERMINAL OR THE KEYPAD. IN THIS CONFIGURATION THE GATE / AUTO SENTRY CONTROL BOX CAN ALSO BE INSTALLED IN THE STAINLESS STEEL CABINET.

NOTE #8: IF THE CORRELATOR DOES NOT EXTEND BEYOND THE TUNNEL ENTRANCE BY ANY APPRECIATIVE DISTANCE AND THE VEHICLE IS INSIDE THE BUILDING WHEN LOADED ONTO THE CONVEYOR, THEN THE STAINLESS STEEL CABINET SHOULD BE MOUNTED INSIDE THE TUNNEL, AGAIN, JUST BEHIND WHERE THE ATTENDANT WOULD BE STANDING WHEN ASSISTING CUSTOMERS (POSITION #2). AT TIMES, A STAINLESS STEEL CABINET MAY NOT BE USED AND THE INPUT TERMINAL AND TMJ KEYPAD WILL JUST BE MOUNTED TO THE WALL OF THE TUNNEL. IN EITHER OF THESE TWO CONFIGURATIONS, DO NOT INSTALL THE GATE / AUTO SENTRY CONTROL BOX INSIDE THE TUNNEL AS THE BOX AND SWITCHES RECOMMENDED BY ICS ARE NOT WATERPROOF.

CAR WASH LAYOUT NOTES

NOTE #9: A ROOM, FUNCTIONING AS A LOBBY, SHOULD ALWAYS BE PLACED AT THE ENTRANCE END OF THE TUNNEL ON THE DRIVER'S SIDE. THE SERVER/POS COMPUTER AND IT'S ACCOMPANYING EQUIPMENT ARE TO BE PLACED IN THIS ROOM. THIS IS TO FACILITATE THE ATTENDANT ADJUSTING AND EDITING THE STACK AS NEEDED. IN THIS SCENARIO THE SERVER COMPUTER ALSO ACTS AS THE POINT–OF-SALE COMPUTER. THIS IS THE BEST MANNER IN WHICH TO CONFIGURE THE WASH IN ORDER TO UTILIZE THE ICS EQUIPMENT TO ITS FULLEST CAPABILITIES.

ICS EQUIPMENT TO BE INSTALLED IN OFFICE/LOBBY:

- SERVER COMPUTER W/ MONITOR - POWER DISTRIBUTION PANEL - ICS COMM BOX

- CASH DRAWER - NETWORK ROUTER

 NETWORK SWITCH
(GATE / AUTO SENTRY CONTROL BOX. IN THE EVENT THAT THE STAINLESS STEEL ENCLOSURE IS PLACED IN POSITION #2)

OTHER ITEMS, SUPPLIED BY SITE, TO BE INSTALLED IN OFFICE/LOBBY:

- DSL OR CABLE MODEM CONNECTION POINT
- 100 BASE-T WALL PLATE

- DSL OR CABLE MODEM - RJ-11 TELEPHONE JACK

- LOW VOLTAGE CONDUIT JUNCTION BOX

NOTE #10: AN ADDITIONAL ROOM FUNCTIONING AS AN OFFICE CAN BE PLACED ANYWHERE WITHIN THE CAR WASH. THE MANAGEMENT / BACK-UP SERVER COMPUTER WILL BE PLACED IN THIS OFFICE. THE FUNCTION OF THIS COMPUTER IS SEVERAL-FOLD:

- 1. ALLOWS THE MANAGER/OWNER TO VIEW AND PRINT NEEDED REPORTS WITHOUT INTERFERING WITH THE NORMAL OPERATIONS OF THE WASH.
- 2. ALLOWS AN ACCOUNTANT TO CONNECT WITH THE MANAGEMENT COMPUTER TO EXTRACT NEEDED FINANCIAL REPORTS AND INFORMATION WITHOUT INTERFERING WITH THE NORMAL OPERATIONS OF THE WASH.
- 3. SERVES AS A REPLACEMENT FOR THE SERVER COMPUTER IN THE EVENT THAT THE SERVER COMPUTER SUFFERS A CATASTROPHIC FAILURE, THOUGH IN THIS SITUATION THIS COMPUTER WILL HAVE TO BE PHYSICALLY MOVED TO THE LOCATION OF THE SERVER COMPUTER.

ICS EQUIPMENT TO BE INSTALLED IN OFFICE:

- MANAGEMENT COMPUTER W/ MONITOR
- PRINTER

OTHER ITEMS, SUPPLIED BY SITE TO BE INSTALLED IN OFFICE:

- 100 BASE-T WALL PLATE
- ICS DEDICATED 110 VAC ELECTRICAL OUTLETFROM THE POWER DISTRIBUTION PANEL

NOTE #11: THE EQUIPMENT ROOM MAY BE ON EITHER THE DRIVER'S SIDE OR THE PASSENGER'S SIDE OF THE TUNNEL, BUT IT IS GENERALLY PREFERABLE HAVING THE EQUIPMENT ROOM ON THE SAME SIDE OF THE TUNNEL AS THE SERVER COMPUTER THUS PREVENTING HAVING TO RUN CONDUIT AND WIRE ACROSS THE TUNNEL. THIS CONFIGURATION ALSO PREVENTS THE ATTENDANT FROM HAVING TO CROSS THE CONVEYOR IN THE EVENT THAT HE MUST GO TO THE EQUIPMENT ROOM.

ICS EQUIPMENT TO BE INSTALLED IN THE EQUIPMENT ROOM: - WBC CONTROLLER



AUTO SENTRY LANE CONDUIT DETAIL

THIS DRAWING IS NOT TO SCALE. THIS DRAWING IS ONLY INTENDED TO SHOW THE CONDUIT REQUIREMENTS FOR THE AUTO SENTRY ISLANDS IN DETAIL.







POWER WIRE SCHEDULE







POWER WIRING

A	14/3 SHIELDED	ICS	FROM POWER DISTRIBUTION BOX TO LANE #1 AUTO SENTRY FLEX (110 VAC)	SITE
B	14/3 SHIELDED	ICS	FROM POWER DISTRIBUTION BOX TO LANE #2 AUTO SENTRY FLEX (110 VAC)	SITE
D	14/3 SHIELDED	ICS	FROM POWER DISTRIBUTION BOX TO SERVER COMPUTER OUTLET (110 VAC)	SITE
E	14/3 SHIELDED	ICS	FROM POWER DISTRIBUTION BOX TO MANAGEMENT COMPUTER OUTLET (110 VAC)	SITE
F	14/3 SHIELDED	ICS	FROM POWER DISTRIBUTION BOX TO WBC CONTROLLER RELAY BOX (110 VAC)	SITE
G	14/3 SHIELDED	ICS	FROM POWER DISTRIBUTION BOX TO TOUCH-IT DISTRIBUTION BOX OR EMS (110 VAC) **OPTIONAL**	SITE
H	CAT 5 or 6 SHIELDED	ICS	FROM TOUCH-IT DISTRIBUTION BOX TO TOUCH-IT OR FROM EMS TO SERVER (12 VAC) **OPTIONAL**	SITE
I	18/4 SHIELDED	SITE	FROM CONTROLLER RELAY BOX TO CONTROLLER KEYPAD (12 VAC)	SITE
J	3 – 12 GA. THHN	SITE	FROM SITE ELECTRICAL PANEL BREAKER TO LANE #1 GATE TRANSFORMER (110 VAC)	SITE
K	3 – 12 GA. THHN	SITE	FROM SITE ELECTRICAL PANEL BREAKER TO LANE #2 GATE TRANSFORMER (110 VAC)	SITE
М	3 – 12 GA. THHN	SITE	FROM SITE ELECTRICAL PANEL BREAKER TO POWER DISTRIBUTION BOX #1 (110 VAC)	SITE
O	3 – 12 GA. THHN	SITE	FROM SITE ELECTRICAL PANEL BREAKER TO LANE #1 AUTO SENTRY FLEX (110 VAC)	SITE
P	3 – 12 GA. THHN	SITE	FROM SITE ELECTRICAL PANEL BREAKER TO LANE #2 AUTO SENTRY FLEX (110 VAC)	SITE

NOTE: ALL WIRING FOR ICS EQUIPMENT TO BE RUN BY A REPRESENTATIVE OF THE CAR WASH AND MUST BE HOME-RUNNED FROM POINT TO POINT. SPLICING OF WIRES IS NOT ALLOWED.





LOW VOLTAGE WIRE SCHEDULE





NETWORK, COMMUNICATIONS AND CONTROL WIRING

R	CAT 5E SHIELDED	ICS	FROM 8-PORT, 100 BASE-T WALL PLATE TO MANAGEMENT COMPUTER PLATE	SITE
S	CAT 5E SHIELDED	ICS	FROM 8-PORT, 100 BASE-T WALL PLATE TO RFID READER IN AUTO SENTRY FLEX #2	SITE
Т	CAT 5E SHIELDED	ICS	FROM 8-PORT, 100 BASE-T WALL PLATE TO LANE #1 AUTO SENTRY FLEX	SITE
U	CAT 5E SHIELDED	ICS	FROM 8-PORT, 100 BASE-T WALL PLATE TO LANE #2 AUTO SENTRY FLEX	SITE
W	CAT 5E SHIELDED	ICS	FROM 8-PORT, 100 BASE-T WALL PLATE TO WBC CONTROLLER	SITE
AI	CAT 5E SHIELDED	ICS	FROM 8-PORT, 100 BASE-T WALL PLATE TO TOUCH-IT DISTRIBUTION BOX OR EMS ** OPTIONAL**	SITE
AJ	ICS NETWORK CABLE	ICS	FROM TOUCH-IT DISTRIBUTION BOX TO TOUCH-IT OR EMS **OPTIONAL**	SITE
Х	18/4 SHIELDED	SITE	FROM GATE / AUTO SENTRY CONTROL BOX TO LANE #1 AUTO SENTRY FLEX	SITE
Y	18/4 SHIELDED	SITE	FROM LANE #1 AUTO SENTRY FLEX TO LANE #1 GATE	SITE
Z	18/4 SHIELDED	SITE	FROM GATE / AUTO SENTRY CONTROL BOX TO LANE #1 GATE	SITE
AA	18/4 SHIELDED	SITE	FROM LANE #1 GATE TO LANE #2 AUTO SENTRY FLEX	SITE
AB	18/4 SHIELDED	SITE	FROM GATE / AUTO SENTRY CONTROL BOX TO LANE #2 AUTO SENTRY FLEX	SITE
AC	18/4 SHIELDED	SITE	FROM LANE #2 AUTO SENTRY FLEX TO LANE #2 GATE	SITE
AD	18/4 SHIELDED	SITE	FROM GATE / AUTO SENTRY CONTROL BOX TO LANE #2 GATE	SITE
AE	18/4 SHIELDED	SITE	FROM LANE #2 GATE TO LANE #1 AUTO SENTRY FLEX	SITE
AK	24/4 COMM	ICS	FROM WBC CONTROLLER TO CONTROLLER KEY PAD	SITE
AL	24/4 COMM	ICS	FROM WBC CONTROLLER TO SERVER PC	SITE

NOTE: ALL WIRING FOR ICS EQUIPMENT TO BE RUN BY A REPRESENTATIVE OF THE CAR WASH AND MUST BE HOME-RUNNED FROM POINT TO POINT. SPLICING OF WIRES IS NOT ALLOWED.

AUTO SENTRY FLEX LANE LAYOUT DETAIL



NOTE #1: THE LENGTH OF THE ISLAND SHOULD BE DETERMINED BY THE CAR WASH OWNER, BUT ICS RECOMMENDS THAT THE ISLAND BE A MINIMUM OF 18' - 0" IN LENGTH. THIS WILL PROVIDE FOR ADEQUATE SPACE FOR THE PROPER PLACEMENT OF THE AUTO SENTRY AND ITS GATE. IF MENU SIGNS AND OTHER ITEMS ARE TO BE INSTALLED ON THE ISLAND, THEN IT IS THE CAR WASH OWNERS RESPONSIBILITY TO INCREASE THE LENGTH OF THE ISLAND TO ACCOMMODATE THESE ADDITIONAL ITEMS.

NOTE #2: ICS HIGHLY RECOMMENDS THAT THE WIDTH OF THE ISLAND SHOULD BE A MINIMUM OF 3' - 6". ONE OF THE LANES MAY NEED TO BE 4'-6" FOR EASIER SERVICING BY THE ATTENDANT. THIS MEASUREMENT, ALONG WITH THE PROPER PLACEMENT OF THE AUTO SENTRY, WILL PREVENT THE REAR OF THE AUTO SENTRY FROM HANGING OVER INTO ANOTHER DRIVE-THRU LANE AND PROVIDES AMPLE ROOM FOR VEHICLES TO PASS THROUGH THE LANES WITHOUT STRIKING THE REAR OF AN AUTO SENTRY.

NOTE #3: THE INSTALLATION OF BOLLARDS, AT THE CAR WASH OWNERS DISCRETION, AT THE ENDS OF THE ISLAND IS HIGHLY RECOMMENDED AND WILL MINIMIZE THE CHANCES OF VEHICLES STRIKING AND DAMAGING AN AUTO SENTRY OR TRAFFIC GATE. BOLLARDS SHOULD BE LOCATED SO THAT THEY PROVIDE PROTECTION TO ICS EQUIPMENT BUT ALSO OFFER AMPLE CLEARANCE SO THAT THE EQUIPMENT CAN BE EASILY INSTALLED AND MAINTAINED.

ADDITIONAL NOTES -- INSTALLATION AND MOUNTING OF THE AUTO SENTRY AND TRAFFIC GATES ARE THE RESPONSIBILITY OF THE CAR WASH SITE AND MUST BE COMPLETED BEFORE THE ARRIVAL OF AN ICS TECHNICIAN.

TWO LANE LOOP LAYOUT DIAGRAM

THIS DIAGRAM IS NOT TO SCALE.



EQUIPMENT DIMENSIONS

SIO BOX



THE ICS SIO BOX IS THE INTERFACE THAT ALLOWS THE SERVER COMPUTER TO COMMUNICATE WITH A 3RD PARTY CONTROLLER. IT MUST BE MOUNTED IN CLOSE PROXIMITY TO THE SERVER COMPUTER AS THE SERIAL CABLES CONNECTING THE COMM BOX TO THE SERVER COMPUTER COMM PORTS ARE ONLY 8 FEET IN LENGTH. IT SHOULD BE MOUNTED IN SUCH A MANNER THAT ALLOWS FREE AND EASY ACCESS BY AN ICS TECHNICIAN.

5/16" HOLES (4) TWO HOLES IN THE 1" FLANGE ON TOP AND BOTTOM OF KEYPAD /

CONTROLLER KEYPAD



THE CONTROLLER KEYPAD COMMUNICATES DIRECTLY WITH THE CONTROLLER. IN THE EVENT THAT THE SERVER COMPUTER IS NOT FUNCTIONING CORRECTLY, THE USER NEED ONLY MAKE A SINGLE PROGRAMMING CHANGE TO SELL CAR WASHES DIRECTLY FROM THE KEYPAD. IT IS MOUNTED AT THE ENTRANCE END OF THE TUNNEL, EITHER ON THE TUNNEL WALL ITSELF, INSIDE THE STAINLESS STEEL CABINET OR INSIDE ANY HOUSING THAT THE CAR WASH BUILDS ITSELF. IT CAN ALSO BE PLACED OUTSIDE THE ENTRANCE OF THE CAR WASH IN AN ICS SUPPLIED OR SITE PROVIDED HOUSING. IT IS NORMALLY MOUNTED ALONGSIDE THE INPUT TERMINAL IN ALL OF THE ABOVE MENTIONED SCENARIOS.

EQUIPMENT DIMENSIONS



TOUCH-IT



THE TOUCH-IT (TOUCH SCREEN INPUT TERMINAL) PROVIDES THE MEANS TO REPRINT RECEIPTS, WET DOWN, ADD OR REMOVE FROM STACK, APPLY RETRACTS AND OTHER \$0.00 SERVICES TO VEHICLES BEFORE THEY ENTER THE TUNNEL. IT IS MOUNTED AT THE ENTRANCE END OF THE TUNNEL, EITHER ON THE TUNNEL WALL ITSELF, INSIDE THE STAINLESS STEEL CABINET OR INSIDE ANY HOUSING THAT THE CAR WASH BUILDS ITSELF. IT CAN ALSO BE PLACED OUTSIDE THE ENTRANCE OF THE CAR WASH IN AN ICS SUPPLIED OR SITE PROVIDED HOUSING. THE TOUCH -IT DEVICE IS AN OPTIONAL DEVICE, AND CANNOT BE USED WITH THE ENTRANCE MANAGEMENT SIGN.



EQUIPMENT DIMENSIONS

OPTIONAL: ENTRANCE OR EXIT MANAGEMENT SYSTEM





TOUCH-IT INPUT TERMINAL STAND AND CABINET DIMENSIONS



FIGURE 3

TOUCH-IT (INPUT TERMINAL) STAND AND CABINET PLACEMENT



WBC CONTROLLER



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AUTO SENTRY FLEX

THE AUTO SENTRY FLEX IS THE PRIMARY POINT-OF-SALE FOR THE EXPRESS CAR WASH. IT IS PLACED OUTSIDE AT THE ENTRANCE END OF THE CAR WASH WITH A CANOPY PLACED OVER IT.









See the actual size Auto Sentry Flex Mounting Template that accompanies the Auto Sentry delivery.



<u>AUTO SENTRY FLEX MOUNTING TEMPLATE</u>

This Template is for Reference Only.

AUTO SENTRY DOOR SWING CLEARANCE



AUTO SENTRY FLEX ISLAND DETAIL (SIDE VIEW)

FULL OVER-HEAD CANOPY (SEE NOTE #4)



AUTO SENTRY FLEX ISLAND DETAIL (TOP VIEW)



NOTE #1: THE LENGTH OF THE ISLAND SHOULD BE DETERMINED BY THE CAR WASH OWNER, BUT ICS RECOMMENDS THAT THE ISLAND BE A MINIMUM OF 18' - 0" IN LENGTH. THIS WILL PROVIDE FOR ADEQUATE SPACE FOR THE PROPER PLACEMENT OF THE AUTO SENTRY AND ITS GATE. IF MENU SIGNS AND OTHER ITEMS ARE TO BE INSTALLED ON THE ISLAND, THEN IT IS THE CAR WASH OWNERS RESPONSIBILITY TO INCREASE THE LENGTH OF THE ISLAND TO ACCOMMODATE THESE ADDITIONAL ITEMS.

NOTE #2: ICS HIGHLY RECOMMENDS THAT THE WIDTH OF THE ISLAND BE A MINIMUM OF 3' - 6". THIS MEASUREMENT, ALONG WITH THE PROPER PLACEMENT OF THE AUTO SENTRY, WILL PREVENT THE REAR OF THE AUTO SENTRY FROM HANGING OVER INTO ANOTHER DRIVE-THRU LANE AND PROVIDES AMPLE ROOM FOR VEHICLES TO PASS THROUGH THE LANES WITHOUT STRIKING THE REAR OF AN AUTO SENTRY.

NOTE #3: THE INSTALLATION OF BOLLARDS, AT THE CAR WASH OWNERS DISCRETION, AT THE ENDS OF THE ISLAND IS HIGHLY RECOMMENDED AND WILL MINIMIZE THE CHANCES OF VEHICLES STRIKING AND DAMAGING AN AUTO SENTRY OR TRAFFIC GATE. BOLLARDS SHOULD BE LOCATED SO THAT THEY PROVIDE PROTECTION TO ICS EQUIPMENT BUT ALSO OFFER AMPLE CLEARANCE SO THAT THE EQUIPMENT CAN BE EASILY INSTALLED AND MAINTAINED.

NOTE #4: ON THE LANE CLOSEST TO BUILDING, INCREASE ISLAND WIDTH TO 4'-6" MIN. A WIDER LANE IS BETTER FOR THE ATTENDANTS WHEN SERVICING.

AUTO SENTRY FLEX BASE PLACEMENT (TOP VIEW) ***This drawing is not to scale.***

See Auto Sentry Mounting Template before drilling holes.



AUTO SENTRY FLEX "SENSE CAR" LOOP TERMINATIONS



BOLLARD & CURB DETAIL

SCALE: 1" = 1' - 0"



AUTO SENTRY FLEX AC POWER TERMINATIONS



POWER DISTRIBUTION PANEL

The purpose of the Power Distribution Panel (PDP) is threefold:

- 1. Ensure that all ICS equipment is on the same electrical phase.
- 2. Condition the power for all ICS equipment through the Power Var UPS.
- 3. Provide a battery back-up for all ICS equipment allowing proper shutdown procedures to be followed in the event of power loss.

Placement of the PDP is important. The panel and UPS should be located in an area that is free from excessive dirt, dust, humidity and water, thereby negating its placement in the equipment room. All of the aforementioned factors will greatly decrease the life expectancy of the UPS if not adversely affect it.

Furthermore, in the event of a loss of power, the UPS will notify site personnel of this power loss by beeping until either the power is restored or the battery in the UPS reaches its limit and shuts down. Common sense tells us that site personnel would notice if the entire site loses power, but if the breaker that powers the PDP was to fail alone, then the only indication of a problem would be the UPS beeping. Therefore the UPS and PDP should be placed in a location that allows for it to be easily heard by site personnel in the event of a power failure (in the lobby, office, etc.)

To install the Power Distribution Panel simply determine the best location for its installation and mount on the wall using anchor screws through the four holes in the rear of the enclosure. The shelf that supports the Power Var UPS should be mounted directly above the PDP. The side supports for the shelf must also be securely anchored into the wall with anchor screws. The Power Var UPS is then simply placed onto the shelf with the rear of the UPS facing the same direction as the side of the PDP that has the outlets for connection between the two.

The male end of the power cord for the UPS simply plugs into the female outlet (lower outlet) on the PDP labeled "TO UPS", while the female end of the power cord is plugged into the UPS the same as any other UPS or computer. This is the cord that supplies line voltage to the UPS from the PDP.

The second power cord, supplied by ICS, connects the conditioned power from the UPS, back to the PDP and then to its breakers. Plug the female end of this cord into the male outlet on the side of the PDP labeled "FROM UPS". Then plug the male end of the this power cord into any of the battery supported outlets on the rear of the UPS. Installation is now complete.



POWER DISTRIBUTION PANEL DIMENSIONS



POWER DISTRIBUTION PANEL #1 TERMINATIONS



POWER DISTRIBUTION PANEL #2 TERMINATIONS



POWER DISTRIBUTION PANEL FAMILIARIZATION - P1



POWER DISTRIBUTION PANEL



RFID LANE – FRONT VIEW

THIS DRAWING IS NOT TO SCALE



RFID LANE – SIDE VIEW

THIS DRAWING IS NOT TO SCALE



TRUSS-BASE DIMENSIONS



NOTE #1: THE TRUSS-BASE MOUNTING HOLES. THEY ARE 9/16" IN DIAMETER. USE 1/2" DIA. X 6" L CONCRETE ANCHOR BOLTS THROUGH EACH OF THE FIVE MOUNTING HOLES TO SECURE THE BASE OF THE TRUSS TO THE CONCRETE ISLAND.

THE THREE MOUNTING HOLES THAT ARE ADJACENT TO THE REAR EDGE OF THE TRUSS BASE SHOULD ALWAYS BE FURTHEST AWAY FROM THE TRAFFIC LANE AND THE VEHICLE. THE TWO MOUNTING HOLES ADJACENT TO THE FRONT EDGE OF THE TRUSS BASE SHOULD ALWAYS BE CLOSEST TO THE TRAFFIC LANE AND THE VEHICLE.

NOTE #2: THE TRUSS-BASE CONDUIT HOLE. THIS IS THE HOLE IN THE TRUSS-BASE THROUGH WHICH THE CONDUIT CONTAINING THE ANTENNA CABLING WILL PASS. MINIMALLY, A 1" CONDUIT IS RECOMMENDED FOR THE ANTENNA CABLING.

Dual Lane RFID WIRING LAYOUT



IN THE INSIDE LANE. THERE WILL BE 2 ANTENNAS PROVIDED, 1 WITH 40' LEAD AND 1 WITH A 25' LEAD. ALL ANTENNAS TERMINATE AT THE INSIDE LANE FLEX WITH THE READER. THE ANTENNA WITH THE 25' LEAD SHOULD BE IN THE LANE WITH THE READER.