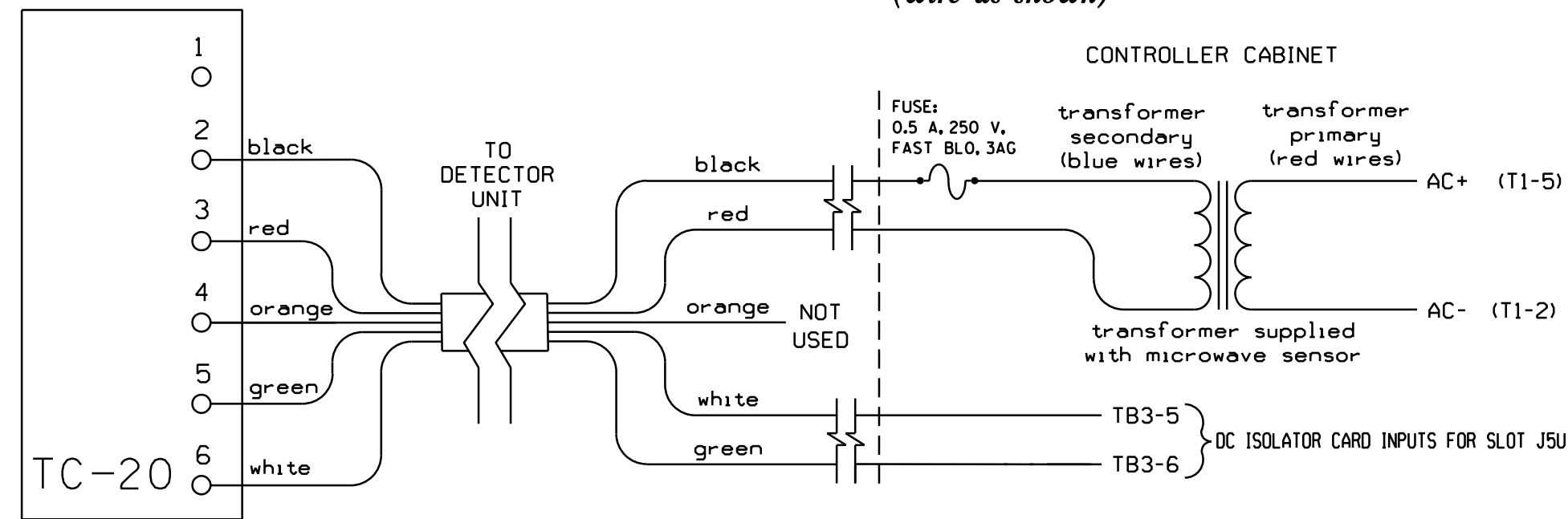


MICROWAVE DETECTOR WIRING DETAIL

(wire as shown)



TC20 WIRE LIST

COLOR	FUNCTION
black	12V to 24V AC/DC (no polarity)
red	12V to 24V AC/DC (no polarity)
orange	Output Relay Normally Open
white	Output Relay Normally Closed
green	Output Relay Common

NOTES:

- Sensor is a Microwave Sensors, Inc. Model TC-20 microwave detector mounted on poles as indicated on the Signal Design Plans.
- Microwave wiring shown above will cause a permanent call unless the Input Assignment Programming and Logical I/O Processor Programming details are entered as shown on this sheet. These programming details will cause a call to be placed upon opening the Normally Closed contact on TC20.
- DC Isolator's LED will be ON when no call is present and will be OFF when a call is present.
- Important: For proper operation of the microwave detector, remove surge protection from TB5-9,10,11 and 12 and insert 242 DC Isolator in slot J6.

INPUT ASSIGNMENT PROGRAMMING DETAIL FOR MICROWAVE DETECTOR INPUT

(program controller as shown below)

FROM MAIN MENU PRESS '5' (INPUTS), THEN '+' UNTIL INPUT 4 (PIN 42) IS REACHED. MODIFY DEFAULT CONDITIONS AS INDICATED BY ARROWS.

```

PAGE: 1 C1 PIN:42 NOT ENABLED
INPUT ASSIGNMENT #.....4
DEBOUNCE TIME (0-25.5 SEC).....0.5
DELAY TIME (0-25.5 SEC).....0.0
HOLD-OVER TIME (0-25.5 SEC).....0.0
ASSIGNMENT SELECTION:
NOT ENABLED (Y/N).....Y
VEHICLE DETECTOR (1-64).....-
PEDESTRIAN DETECTOR (1-16).....-
ALTERNATE PED DETECTOR (1-16).....-
PREEMPT (1-10).....-
INVERTED PREEMPT (1-10).....-
STOP TIME (Y/N).....-
FLASH SENSE (Y/N).....-
DOOR OPEN (Y/N).....-
MANUAL CONTROL ENABLE (Y/N).....-
MANUAL CONTROL ADVANCE (Y/N).....-
SPECIAL FUNCTION ALARM (1-8).....-
TOD HOUR SYNCHRONIZATION (0-23).....-
FORCE OFF RING (1-4).....-
HOLD PHASES (1-16).....-
PLAN (65=FLSH,66=FREE).._ OFFSET#..
CHANGE PHASE SEQUENCE PAGE (1-12)....
CHANGE PHASE TIMING PAGE (1-4).....
CHANGE PHASE CONTROL PAGE (1-4).....
CHANGE OVERLAP CONTROL PAGE (1-4)....
CHANGE INPUT PAGE (1-4).....
CHANGE OUTPUT PAGE (1-4).....
OVERRIDE PHASE CONTROL FUNCTION (Y)..
    
```

ENTER 'YES' for Not Enabled

```

PAGE: 1 C1 PIN:0 VEHICLE DETECTOR
INPUT ASSIGNMENT #.....63
DEBOUNCE TIME (0-25.5 SEC).....0.5
DELAY TIME (0-25.5 SEC).....0.0
HOLD-OVER TIME (0-25.5 SEC).....0.0
ASSIGNMENT SELECTION:
NOT ENABLED (Y/N).....-
VEHICLE DETECTOR (1-64).....8
PEDESTRIAN DETECTOR (1-16).....-
ALTERNATE PED DETECTOR (1-16).....-
PREEMPT (1-10).....-
INVERTED PREEMPT (1-10).....-
STOP TIME (Y/N).....-
FLASH SENSE (Y/N).....-
DOOR OPEN (Y/N).....-
MANUAL CONTROL ENABLE (Y/N).....-
MANUAL CONTROL ADVANCE (Y/N).....-
SPECIAL FUNCTION ALARM (1-8).....-
TOD HOUR SYNCHRONIZATION (0-23).....-
FORCE OFF RING (1-4).....-
HOLD PHASES (1-16).....-
PLAN (65=FLSH,66=FREE)..65 OFFSET#..
CHANGE PHASE SEQUENCE PAGE (1-12)....
CHANGE PHASE TIMING PAGE (1-4).....
CHANGE PHASE CONTROL PAGE (1-4).....
CHANGE OVERLAP CONTROL PAGE (1-4)....
CHANGE INPUT PAGE (1-4).....
CHANGE OUTPUT PAGE (1-4).....
OVERRIDE PHASE CONTROL FUNCTION (Y)..
    
```

ENTER '8' for Vehicle Detector

PRESS '-' until Input Assignment #63 is reached

PROGRAMMING COMPLETE

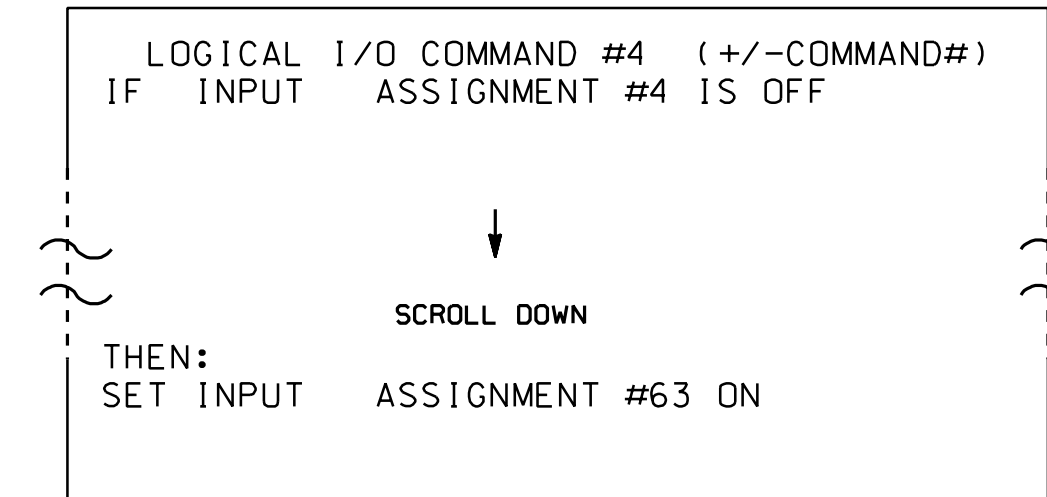
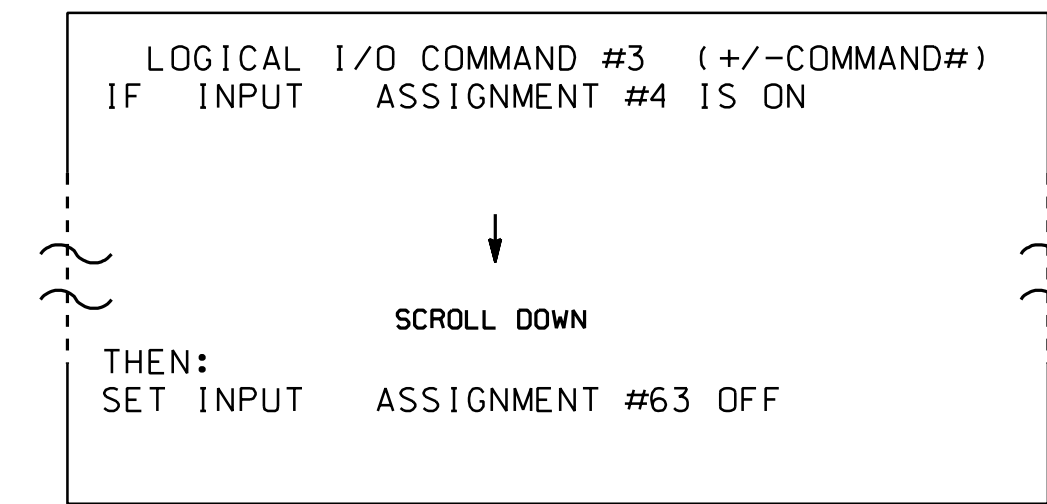
NOTE:

This remapping removes the default detector from the microwave's physical input and reassigns it to unused INPUT 64. The Logical I/O Processor Programming Detail on this sheet will invert the disabled input and control INPUT 64 and the reassigned detector.

LOGICAL I/O PROCESSOR PROGRAMMING DETAIL TO INVERT INPUT FROM MICROWAVE DETECTOR

(program controller as shown below)

- From Main Menu press '6' (Outputs), Then '3' (Logical I/O Processor).
- The programming shown below will invert the input from the TC20 so a call is placed on Detector 8 (INPUT 63) when the TC20's Normally Closed output opens up.



LOGIC I/O PROCESSOR PROGRAMMING COMPLETE

- From Main Menu press '2' (Phase Control), Then '1' (Phase Control Functions). Scroll to the bottom of the menu and enable ACT LOGIC Commands 1 and 2.

REFERENCE SCHEDULE

- * INPUT 4 = TC20 Physical Input (Not Enabled)
- * INPUT 63 = Dummy TC20 Input (Detector 8)

* Input Remapped



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: COA-0005
 DESIGNED: JUNE 2016
 SEALED: 12-13-2016
 REVISED:

ELECTRICAL DETAIL SHEET 3 OF 3

<p>161 S. Charlotte St. Asheville NC 28802</p>	<p>Riverside Dr. at Craven St and W Haywood Ave</p>		
	<p>Division 13 Buncombe County Asheville</p>	<p>PLAN DATE: June 2016 REVIEWED BY: SMH</p>	
<p>REVISIONS</p>	<p>INIT.</p>	<p>DATE</p>	<p>12/13/2016</p>