SCHOOL FLASHER (23)
(wire flasher as shown below)

CABINET CONNECTION   FIELD CONNECTION

23

(114) 2PY ———— 14 AWG. (min.) ———— (Y)

AC- ———— 14 AWG. (min.)
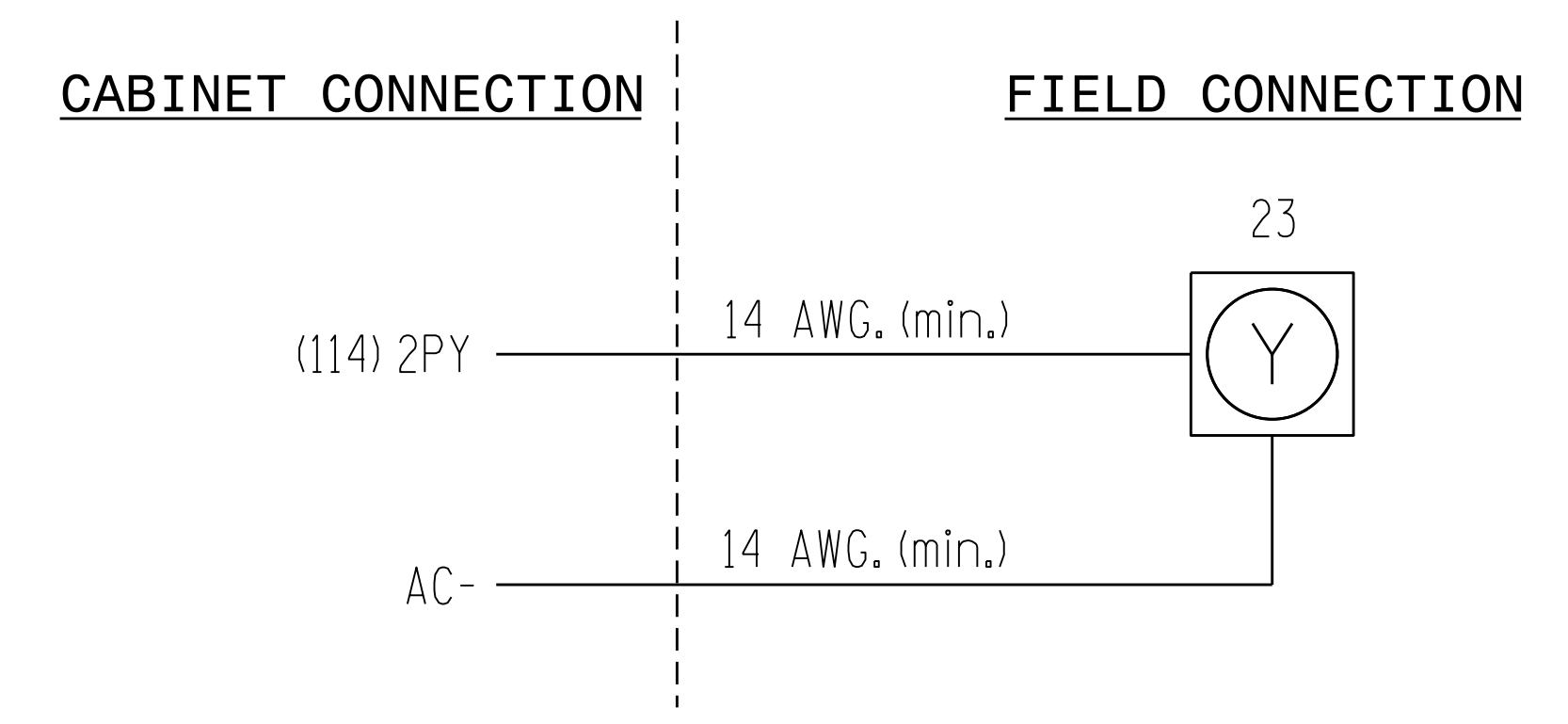
SCHOOL FLASHER (63)
(wire flasher as shown below)

CABINET CONNECTION   FIELD CONNECTION

63

(105) 4PY ———— 14 AWG. (min.) ———— (Y)

AC- ———— 14 AWG. (min.)
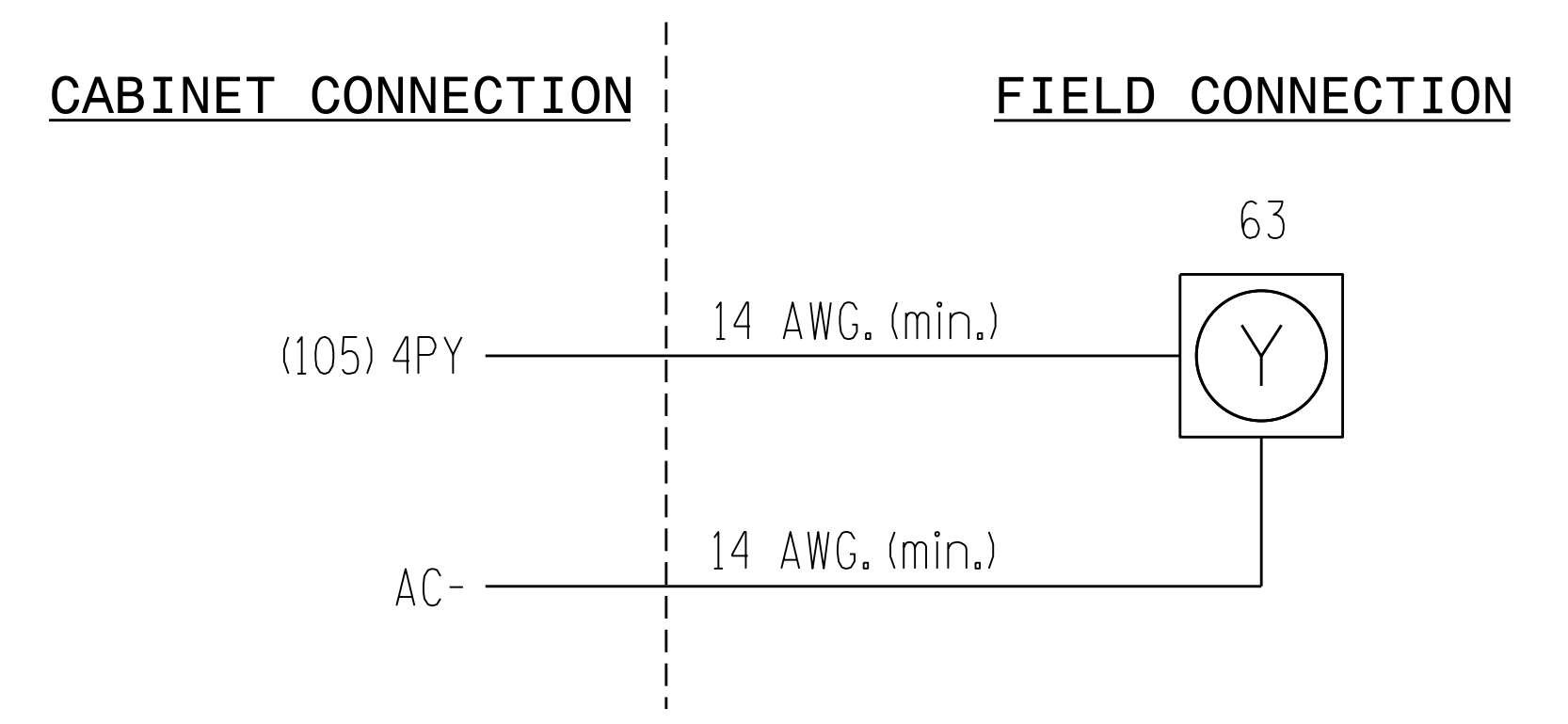
IMPORTANT

1. Ensure that the white keyed plug located behind rear panel of output file labeled 2PY-4PY-6PY-8PY is disconnected. This will disconnect conflict monitor wires from field signal terminals 114 and 105 shown on flasher wiring detail above.

2. To activate school zone flasher operation as indicated on the signal plan, program outputs 33 and 35 as shown on this sheet.

3. Operational times and dates are determined by the DTE. See this sheet for the scheduling programming detail.

EVENT #1 SCHEDULING (AM)
SCHOOL FLASHER PROGRAMMING DETAIL
(program controller as shown below)

FROM MAIN MENU PRESS 'B' (SCHEDULING).

```
SCHEDULED EVENT #1      NOT ASSIGNED *
START DATE (MM/DD)..............**/**
END DATE (MM/DD)...............**/**
START TIME (HH:MM).............**/**
STOP TIME (HH:MM)..............**/**
DOW       |SUN MON TUE WED THR FRI SAT
ENABLED I      X   X   X   X   X
EVENT GROUPS   |12345678910111213141516
ASSIGNED       |

DELETE EVENT WHEN COMPLETED?........N
CONTINUOUS EVENT?...................N
INVERT EVENT?.......................N
SELECT 1 EVENT TYPE:
EVENT GROUP (1-16)..................
PLAN (65=FLSH.66=FREE)... OFFSET#.._
PLAN PRIORTY: LOW.._ MED._ HIGH.._
CAHNGE 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)............_
SET OUTPUT ON  (1-64)................33
SET OUTPUT OFF (1-64)...............
SET INPUT ON   (1-64)...............
SET INPUT OFF  (1-64)...............
ENABLE FAILURES LOG?................
ENABLE EVENTS LOG?..................
ENABLE DATA ENTRIES LOG?............
ENABLE COORDINATION PLANS LOG?......
ENABLE SPECIAL FUNCTIONS LOG?.......
ENABLE SPLIT MONITOR LOG?...........
ENABLE DETECTOR DATA LOG?...........
ENABLE DETECTOR (1-64)..............
ENABLE DETECTOR DIAGNOSTICS (1-64)..
ENABLE DET STRETCH / DELAY (1-64)...
ENABLE DET STOP BAR MODE (1-64).....
SET LOGIC FLAG ON (1-16)............
SET LOGIC FLAG OFF (1-64)...........
OVERRIDE PHASE CONTROL FUNCTIONS?..._
```

EVENT #2 SCHEDULING (PM)
SCHOOL FLASHER PROGRAMMING DETAIL
(program controller as shown below)

FROM MAIN MENU PRESS 'B' (SCHEDULING).

```
SCHEDULED EVENT #2      NOT ASSIGNED *
START DATE (MM/DD)..............**/**
END DATE (MM/DD)...............**/**
START TIME (HH:MM).............**/**
STOP TIME (HH:MM)..............**/**
DOW       |SUN MON TUE WED THR FRI SAT
ENABLED I      X   X   X   X   X
EVENT GROUPS   |12345678910111213141516
ASSIGNED       |

DELETE EVENT WHEN COMPLETED?........N
CONTINUOUS EVENT?...................N
INVERT EVENT?.......................N
SELECT 1 EVENT TYPE:
EVENT GROUP (1-16)..................
PLAN (65=FLSH.66=FREE).._  OFFSET#.._
PLAN PRIORTY: LOW.._ MED._ HIGH.._
CAHNGE 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)............_
SET OUTPUT ON  (1-64)................33
SET OUTPUT OFF (1-64)...............
SET INPUT ON   (1-64)...............
SET INPUT OFF  (1-64)...............
ENABLE FAILURES LOG?................
ENABLE EVENTS LOG?..................
ENABLE DATA ENTRIES LOG?............
ENABLE COORDINATION PLANS LOG?......
ENABLE SPECIAL FUNCTIONS LOG?.......
ENABLE SPLIT MONITOR LOG?...........
ENABLE DETECTOR DATA LOG?...........
ENABLE DETECTOR (1-64)..............
ENABLE DETECTOR DIAGNOSTICS (1-64)..
ENABLE DET STRETCH / DELAY (1-64)...
ENABLE DET STOP BAR MODE (1-64).....
SET LOGIC FLAG ON (1-16)............
SET LOGIC FLAG OFF (1-64)...........
OVERRIDE PHASE CONTROL FUNCTIONS?..._
```

* AFTER PROGRAMMING, THIS SPACE WILL READ 'OUTPUT OVERRIDE'.

/ TIMES AND DATES DETERMINED BY THE DTE.

SCHOOL FLASHER
OUTPUT ASSIGNMENT PROGRAMMING DETAIL
(program controller as shown below)

1. FROM MAIN MENU PRESS '6' (OUTPUTS). THEN '1' (OUTPUT (ASSIGNMENTS).

2. WITH CURSOR IN "OUTPUT ASSIGNMENT #" FIELD, USE '+' KEY TO FIND THE OUTPUT ASSIGNMENT NUMBER 33, AS SHOWN BELOW.

3. PROGRAM CONTROLLER AS SHOWN:

```
PAGE:1  C1 PIN:35  NOT ENABLED
OUTPUT ASSIGNMENT #...............33
FREQUENCY (0=DEFAULT) (0-25.5 HZ)...1.0
DUTY CYCLE (0=DEFAULT) (0 - 100%)...50
MODE (0=SOLID, 1=FLASH..............1
SELECT ASSIGNMENT:
NOT ENABLED........................Y
VEHICLE PHASE......................
PEDESTRIAN PHASE...................
VEHICLE OVERLAP....................
PEDESTRIAN OVERLAP.................
WATCHDOG...........................
DETECTOR RESET.....................
ADVANCE BEACON.....................
OUT OF PHASE FLASHER...............
CONTROLLER FLASH...................
RUN FREE...........................
RESERVED...........................
PREEMPT............................
SOFT PREEMPT.......................
ANY PREEMPT........................
COORDINATION PLAN..................
OFFSET.............................
PHASE CHECK........................
PHASE ON...........................
PHASE NEXT.........................
```

THE FIRST THREE PROGRAMMING ROWS DEFINE THE OUTPUT TO FLASH, ALONG WITH THE RATE IN WHICH IT WILL FLASH.

LEAVE THIS ENTRY AS IS

PRESS '+' KEY FOR OUTPUT ASSIGNMENT 35 (C1 PIN 37)

```
PAGE:1  C1 PIN:37  NOT ENABLED
OUTPUT ASSIGNMENT #...............35
FREQUENCY (0=DEFAULT) (0-25.5 HZ)...0.0
DUTY CYCLE (0=DEFAULT) (0 - 100%)...0
MODE (0=SOLID, 1=FLASH..............0
SELECT ASSIGNMENT:
NOT ENABLED........................Y
VEHICLE PHASE......................
PEDESTRIAN PHASE...................
VEHICLE OVERLAP....................
PEDESTRIAN OVERLAP.................
WATCHDOG...........................
DETECTOR RESET.....................
ADVANCE BEACON.....................
OUT OF PHASE FLASHER...............
CONTROLLER FLASH...................
RUN FREE...........................
RESERVED...........................
PREEMPT............................
SOFT PREEMPT.......................
ANY PREEMPT........................
COORDINATION PLAN..................
OFFSET.............................
PHASE CHECK........................
PHASE ON...........................
PHASE NEXT.........................
```

THE NOT ENABLED "Y" WILL REMAIN UNTIL FUNCTION OF THIS OUTPUT IS CHANGED. DO NOT ENTER A "N".

SCROLL DOWN TO VIEW ALL DATA

```
PAGE:1  C1:37  NOT ENABLED
SELECT OUTPUT ASSIGNMENT (1-64)....33
```

WHEN A "Y" IS ENTERED FOR "OUT OF PHASE FLASHER" THE SCREEN SHOWN ABOVE WILL APPEAR. ENTER DATA AS SHOWN.

PRESS ENTER AFTER ENTERING DATA. THEN ESC.

DISPLAY WILL NOW SHOW THE SPECIFIED OUTPUT ASSIGNED AS "OUT OF PHASE FLASHER" AS SHOWN BELOW:

```
PAGE:1  C1 PIN:37  OUT OF PHASE FLASHER
OUTPUT ASSIGNMENT #................35
FREQUENCY (0=DEFAULT) (0-25.5 HZ)...0.0
DUTY CYCLE (0=DEFAULT) (0 - 100%)...0
MODE (0=SOLID, 1=FLASH..............0
SELECT ASSIGNMENT:
NOT ENABLED........................
VEHICLE PHASE......................
PEDESTRIAN PHASE...................
VEHICLE OVERLAP....................
PEDESTRIAN OVERLAP.................
WATCHDOG...........................
DETECTOR RESET.....................
ADVANCE BEACON.....................
OUT OF PHASE FLASHER...............Y
CONTROLLER FLASH...................
RUN FREE...........................
RESERVED...........................
PREEMPT............................
SOFT PREEMPT.......................
ANY PREEMPT........................
COORDINATION PLAN..................
OFFSET.............................
PHASE CHECK........................
PHASE ON...........................
PHASE NEXT.........................
```

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 01-0526
DESIGNED: August 2018
SEALED: 11/20/2018
REVISED:

Electrical Detail - Sheet 3 of 3

ELECTRICAL AND PROGRAMMING DETAILS FOR:

SR 1217 (Ocean Bay Boulevard)
at
Veteran's Drive

Prepared In the Offices of:

N.C. Department of Transportation
Mobility and Safety Division
Signals Management

750 N.Greenfield Pkwy,Garner,NC 27529

Division 1	Dare County	Kill Devil Hills
PLAN DATE: November 2018	REVIEWED BY: T. Joyce	
PREPARED BY: C. Strickland	REVIEWED BY:	

REVISIONS	INIT.	DATE

SIG. INVENTORY NO.   01-0526

SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
031001
TODD JOYCE
ENGINEER

DocuSigned by:
D. Todd Joyce 11/20/2018
DATE