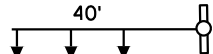
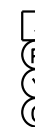
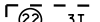


LEGEND

- PULL BOX 12" X 24" 
- PULL BOX 24" X 36" 
- SIGNAL STANDARD, PEDESTAL BASE 
- SIGNAL POLE, MONOTUBE ARM 
- CONTROL CABINET BASE 
- 3" CONDUIT (unless otherwise noted) 
- SIGNAL HEAD NUMBER MOUNTING CONFIGURATION 
- LOOP DETECTOR (in 1" conduit) 
- LUMINAIRE (under permit to local municipality) 

GENERAL NOTES

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

| CONFIGURATION WITH HEAD NUMBERS |                                                 |        |                                  |
|---------------------------------|-------------------------------------------------|--------|----------------------------------|
| 3-V                             | 3, 4, 5<br>8, 9, 10<br>13, 14, 15<br>18, 19, 20 | 4-VLFY | 1, 2<br>6, 7<br>11, 12<br>16, 17 |

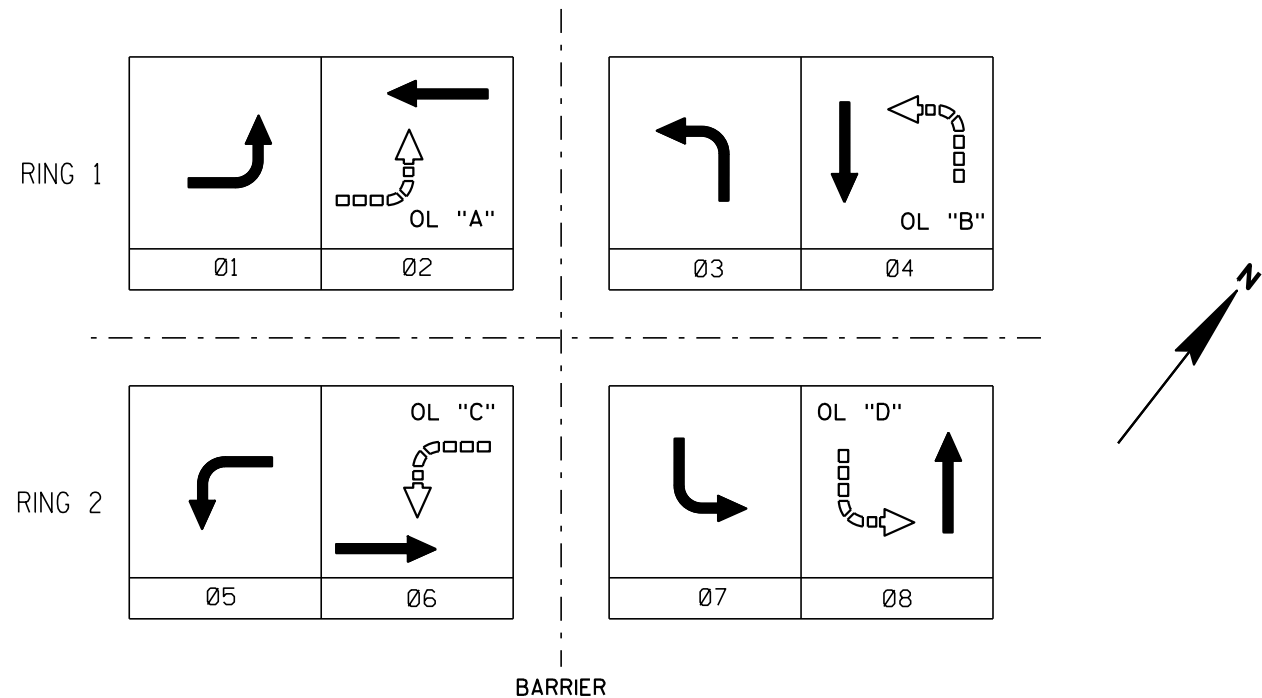
| MONOTUBE STRUCTURE NUMBERS |           |
|----------------------------|-----------|
| SB2                        | S-70-0316 |
| SB4                        | S-70-0317 |
| SB6                        | S-70-0318 |
| SB8                        | S-70-0319 |

Updated 12-1-2016 (Added Comms System)

| R E V I S I O N |                                                                           |     |                |     |
|-----------------|---------------------------------------------------------------------------|-----|----------------|-----|
| Rev.<br>No.     | ADD MONOTUBES                                                             |     |                |     |
|                 | APPROVAL RECOMMENDED                                                      |     | APPROVED       |     |
| 3               | REGION                                                                    |     | CENTRAL OFFICE |     |
|                 | Date                                                                      | By  | Date           | By  |
|                 | 6-25-14                                                                   | RJS | 4-6-15         | JLB |
| 7-13-12         | New TS2 Cabinet (EPAC), Add Phases 5 & 7, Add FYA & Update Phasing        |     |                |     |
| 3-5-10          | Upgrade Signal Control, Add Phase 3 and Change to All Red Emergency Flash |     |                |     |

| TRAFFIC CONTROL SIGNAL                 |                                            |
|----------------------------------------|--------------------------------------------|
| STH 44 & WASHBURN STREET               |                                            |
| CITY OF OSHKOSH                        |                                            |
| WINNEBAGO COUNTY                       |                                            |
| SIGNAL NO. 70-0451                     | CONTROLLER TYPE: EPAC TS2                  |
| WISCONSIN DEPARTMENT OF TRANSPORTATION |                                            |
| APPROVAL RECOMMENDED                   |                                            |
| Date 4-25-1991                         | Gerald R. Kurtz<br>REGION TRAFFIC ENGINEER |
| APPROVED                               |                                            |
| Date 4-25-1991                         | H. O. PRICE<br>STATE TRAFFIC ENGINEER      |
| REGION CONTACT: RJS                    |                                            |
| DESIGNED BY: RJS                       |                                            |
| REVISED BY: RJS                        |                                            |

|     | HEAD NUMBERS | FLASH |
|-----|--------------|-------|
| Ø1  | 6, 7         | -     |
| Ø2  | 3, 4, 5      | R     |
| Ø3  | 16, 17       | -     |
| Ø4  | 13, 14, 15   | R     |
| Ø5  | 1, 2         | -     |
| Ø6  | 8, 9, 10     | R     |
| Ø7  | 11, 12       | -     |
| Ø8  | 18, 19, 20   | R     |
| Ø2P |              |       |
| Ø4P |              |       |
| Ø6P |              |       |
| Ø8P |              |       |
| OLA | 6, 7         | R     |
| OLB | 16, 17       | R     |
| OLC | 1, 2         | R     |
| OLD | 11, 12       | R     |



| PHASE NUMBER | PHASE LOCKING | DUAL ENTRY W / Ø | PHASE RECALL | PHASE ACTIVE |
|--------------|---------------|------------------|--------------|--------------|
| 1            |               |                  |              | YES          |
| 2            |               |                  | MIN          | YES          |
| 3            |               |                  |              | YES          |
| 4            |               | 8                |              | YES          |
| 5            |               |                  |              | YES          |
| 6            |               |                  | MIN          | YES          |
| 7            |               |                  |              | YES          |
| 8            |               | 4                |              | YES          |

| TYPE OF INTERCONNECT/COMMUNICATION |   |
|------------------------------------|---|
| CELL MODEM                         |   |
| CLOSED LOOP                        |   |
| TWISTED PAIR*                      |   |
| FIBER OPTIC*                       |   |
| FIBER OPTIC (ETHERNET)             | x |
| RADIO                              |   |

| TYPE OF COORDINATION               |           |
|------------------------------------|-----------|
| NONE                               |           |
| TBC                                | x         |
| TRAFFIC RESPONSIVE                 |           |
| ADAPTIVE                           |           |
| *LOCATION OF MASTER CONTROLLER NO: | S70-0451  |
| SIGNAL SYSTEM #:                   | SS70-0099 |

| TYPE OF LIGHTING                 |   |
|----------------------------------|---|
| BY OTHER AGENCY                  | x |
| IN TRAFFIC SIGNAL CABINET        |   |
| IN SEPARATE DOT LIGHTING CABINET |   |

| TYPE OF PRE-EMPT  |   |
|-------------------|---|
| NONE              | x |
| RAILROAD          |   |
| EMERGENCY VEHICLE |   |
| GTT               |   |
| TOMAR             |   |
| HARDWIRE          |   |
| 3M                |   |
| LIFT BRIDGE       |   |
| QUEUE DETECTOR    |   |

DETECTOR LOGIC

| RACK # 1                |     |     |     |     |     |    |    |
|-------------------------|-----|-----|-----|-----|-----|----|----|
| DETECTOR CHANNEL        | 3   | 1   | 7   | 5   | 11  | 9  | 15 |
| PLAN LOOP DETECTOR *(S) | 11  | 21  | 31  | 41  | 43  |    |    |
| ASSIGNED PHASE          | 1   | 2   | 3   | 4   | 4   |    |    |
| OPERATION MODE          | Veh | Veh | Veh | Veh | Veh |    |    |
| SWITCH TO PHASE         |     |     |     |     |     |    |    |
| EXTEND                  |     |     |     |     |     |    |    |
| DELAY                   |     |     |     |     |     |    |    |
| DETECTOR CHANNEL        | 4   | 2   | 8   | 6   | 12  | 10 | 16 |
| PLAN LOOP DETECTOR *(S) |     | 22  |     | 42  |     |    |    |
| ASSIGNED PHASE          |     | 2   |     | 4   |     |    |    |
| OPERATION MODE          |     | Veh |     | Veh |     |    |    |
| SWITCH TO PHASE         |     |     |     |     |     |    |    |
| EXTEND                  |     |     |     |     |     |    |    |
| DELAY                   |     |     |     | Yes |     |    |    |

| RACK # 2                |     |     |     |     |     |    |    |
|-------------------------|-----|-----|-----|-----|-----|----|----|
| DETECTOR CHANNEL        | 19  | 17  | 23  | 21  | 27  | 25 | 31 |
| PLAN LOOP DETECTOR *(S) | 51  | 61  | 71  | 81  | 83  |    |    |
| ASSIGNED PHASE          | 5   | 6   | 7   | 8   | 8   |    |    |
| OPERATION MODE          | Veh | Veh | Veh | Veh | Veh |    |    |
| SWITCH TO PHASE         |     |     |     |     |     |    |    |
| EXTEND                  |     |     |     |     |     |    |    |
| DELAY                   |     |     |     | Yes |     |    |    |
| DETECTOR CHANNEL        | 20  | 18  | 24  | 22  | 28  | 26 | 32 |
| PLAN LOOP DETECTOR *(S) | 52  | 62  |     | 82  |     |    |    |
| ASSIGNED PHASE          | 5   | 6   |     | 8   |     |    |    |
| OPERATION MODE          | Veh | Veh |     | Veh |     |    |    |
| SWITCH TO PHASE         |     |     |     |     |     |    |    |
| EXTEND                  |     |     |     |     |     |    |    |
| DELAY                   |     |     |     | Yes |     |    |    |

OVERLAP SPECIAL

|        | Protected | Permissive |
|--------|-----------|------------|
| OL "A" | 1         | 2          |
| OL "B" | 3         | 4          |
| OL "C" | 5         | 6          |
| OL "D" | 7         | 8          |

GENERAL NOTES:  
1. PROVIDE FOR HAND CONTROL.

Updated 12-1-2016 (Added Comms System)

|                                                             |                  |
|-------------------------------------------------------------|------------------|
| STH 44 & WASHBURN ST<br>CITY OF OSHKOSH<br>WINNEBAGO COUNTY |                  |
| SIGNAL NO. 70-0451                                          |                  |
| CABINET: TS2                                                | CONTROLLER: EPAC |
| DATE: 4-6-2015                                              | PAGE NO. 2 OF 2  |