## TRAFFIC SIGNAL LEGEND

| | PROPOSED | EXISTING |
|---|---|---|
| CONTROLLER | | |
| SERVICE INSTALLATION | | |
| SIGNAL HEAD | | |
| SIGNAL HEAD WITH BACKPLATE | | |
| SIGNAL HEAD, PEDESTRIAN WITH COUNTDOWN TIMER | | |
| SIGNAL POST | | |
| STEEL MAST ARM ASSEMBLY AND POLE | | |
| MAST ARM ASSEMBLY AND POLE, ALUMINUM | | |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE | | |
| UNIT DUCT | UD | |
| COMMON TRENCH | CT | |
| HANDHOLE | | |
| HEAVY DUTY HANDHOLE | H | H |
| DOUBLE HANDHOLE | | |
| G.S. CONDUIT IN TRENCH (T) OR PUSHED (P) | | |

| | PROPOSED | EXISTING |
|---|---|---|
| PEDESTRIAN PUSH-BUTTON DETECTOR | | |
| DETECTOR LOOP, TYPE I | | |
| CAST IRON JUNCTION BOX | | |
| EMERGENCY VEHICLE SYSTEM DETECTOR | | |
| CONFIRMATION BEACON | | |
| SIGNAL HEAD OPTICALLY PROGRAMMED | "P" | "P" |
| CONDUIT SPLICE | | |
| WOOD POLE | | "E" |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II | | "E" |
| VEHICLE DETECTOR, NON COMPANSATED MAGNETIC TYPE | | |
| RAILROAD CONTROL CABINET | | |
| TELEPHONE CONNECTION | T | T |
| ILLUMINATED SIGN "NO LEFT TURN" | | "E" |
| ILLUMINATED SIGN "NO RIGHT TURN" | | "E" |
| UNINTERRUPTIBLE POWER SUPPLY | B | B |

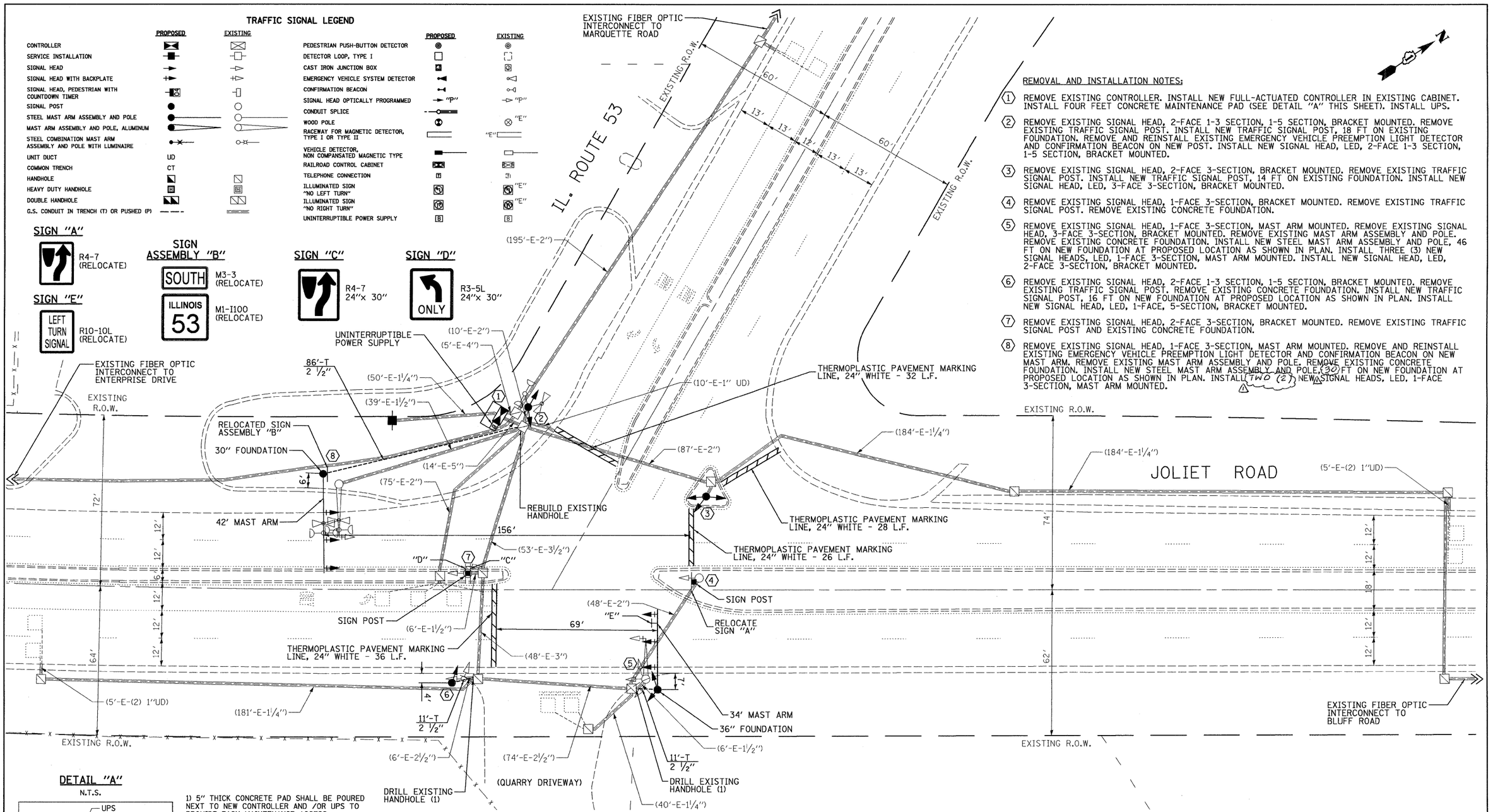
**SIGN "A"**
R4-7 (RELOCATE)

**SIGN "E"**
LEFT TURN SIGNAL
R10-10L (RELOCATE)

**SIGN ASSEMBLY "B"**
SOUTH — M3-3 (RELOCATE)
ILLINOIS 53 — M1-1100 (RELOCATE)

**SIGN "C"**
R4-7 24"x 30"

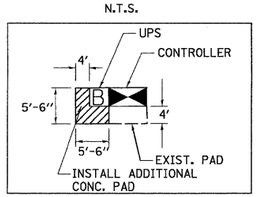
**SIGN "D"**
ONLY
R3-5L 24"x 30"




### REMOVAL AND INSTALLATION NOTES:

1. REMOVE EXISTING CONTROLLER. INSTALL NEW FULL-ACTUATED CONTROLLER IN EXISTING CABINET. INSTALL FOUR FEET CONCRETE MAINTENANCE PAD (SEE DETAIL "A" THIS SHEET). INSTALL UPS.
2. REMOVE EXISTING SIGNAL HEAD, 2-FACE 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED. REMOVE EXISTING TRAFFIC SIGNAL POST. INSTALL NEW TRAFFIC SIGNAL POST, 18 FT ON EXISTING FOUNDATION. REMOVE AND REINSTALL EXISTING EMERGENCY VEHICLE PREEMPTION LIGHT DETECTOR AND CONFIRMATION BEACON ON NEW POST. INSTALL NEW SIGNAL HEAD, LED, 2-FACE 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED.
3. REMOVE EXISTING SIGNAL HEAD, 2-FACE 3-SECTION, BRACKET MOUNTED. REMOVE EXISTING TRAFFIC SIGNAL POST. INSTALL NEW TRAFFIC SIGNAL POST, 14 FT ON EXISTING FOUNDATION. INSTALL NEW SIGNAL HEAD, LED, 3-FACE 3-SECTION, BRACKET MOUNTED.
4. REMOVE EXISTING SIGNAL HEAD, 1-FACE 3-SECTION, BRACKET MOUNTED. REMOVE EXISTING TRAFFIC SIGNAL POST. REMOVE EXISTING CONCRETE FOUNDATION.
5. REMOVE EXISTING SIGNAL HEAD, 1-FACE 3-SECTION, MAST ARM MOUNTED. REMOVE EXISTING SIGNAL HEAD, 3-FACE 3-SECTION, BRACKET MOUNTED. REMOVE EXISTING MAST ARM ASSEMBLY AND POLE. REMOVE EXISTING CONCRETE FOUNDATION. INSTALL NEW STEEL MAST ARM ASSEMBLY AND POLE, 46 FT ON NEW FOUNDATION AT PROPOSED LOCATION AS SHOWN IN PLAN. INSTALL THREE (3) NEW SIGNAL HEADS, LED, 1-FACE 3-SECTION, MAST ARM MOUNTED. INSTALL NEW SIGNAL HEAD, LED, 2-FACE 3-SECTION, BRACKET MOUNTED.
6. REMOVE EXISTING SIGNAL HEAD, 2-FACE 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED. REMOVE EXISTING TRAFFIC SIGNAL POST. REMOVE EXISTING CONCRETE FOUNDATION. INSTALL NEW TRAFFIC SIGNAL POST, 16 FT ON NEW FOUNDATION AT PROPOSED LOCATION AS SHOWN IN PLAN. INSTALL NEW SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED.
7. REMOVE EXISTING SIGNAL HEAD, 2-FACE 3-SECTION, BRACKET MOUNTED. REMOVE EXISTING TRAFFIC SIGNAL POST AND EXISTING CONCRETE FOUNDATION.
8. REMOVE EXISTING SIGNAL HEAD, 1-FACE 3-SECTION, MAST ARM MOUNTED. REMOVE AND REINSTALL EXISTING EMERGENCY VEHICLE PREEMPTION LIGHT DETECTOR AND CONFIRMATION BEACON ON NEW MAST ARM. REMOVE EXISTING MAST ARM ASSEMBLY AND POLE. REMOVE EXISTING CONCRETE FOUNDATION. INSTALL NEW STEEL MAST ARM ASSEMBLY AND POLE, ~~(30)~~ FT ON NEW FOUNDATION AT PROPOSED LOCATION AS SHOWN IN PLAN. INSTALL TWO (2) NEW SIGNAL HEADS, LED, 1-FACE 3-SECTION, MAST ARM MOUNTED.

### DETAIL "A"
N.T.S.




1) 5" THICK CONCRETE PAD SHALL BE POURED NEXT TO NEW CONTROLLER AND /OR UPS TO PROVIDE EASY MAINTENANCE ACCESS.

2) MAINTENANCE PAD SHALL EXTEND TOTHE EDGE OF EXISTING CONTROLLER FOUNDATION.

3) COST OF PAD SHALL BE INCLUDED IN THE PRICE OF THE UNINTERRUPTIBLE POWER SUPPLY PAY ITEM.

NOTE:
THE WORK SHOWN IN DETAIL "A" SHALL BE INCLUDED IN THE COST FOR THE U.P.S. EQUIPMENT.

NOTE:
THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE OPERATION OF THE TRAFFIC SIGNALS DURING THE ENTIRE PROJECT.

NOTE:
CONTRACTOR SHALL REINSTALL "EVP" EQUIPMENT WHERE SHOWN TO NEW MAST ARM OR TRAFFIC SIGNAL POST AND CABINET. THIS WORK SHALL BE INCLUDED IN COST FOR "FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL".

NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE:
RELOCATE SIGNS ON MAST ARMS AND SIGNAL POSTS TO NEW MAST ARMS.

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1 EACH CONTROLLER
3 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
2 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
2 EACH SIGNAL HEAD, 2-FACE, 1-3-SECTION, 1-5-SECTION
1 EACH SIGNAL HEAD, 3-FACE, 3-SECTION
2 EACH TRAFFIC SIGNAL BACKPLATE
5 EACH TRAFFIC SIGNAL POST
2 EACH MAST ARM ASSEMBLY AND POLE
1 EACH SERVICE INSTALLATION

Rev. 5-28-09


PREPARED BY:
CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60504-9675
Ph: 630.862.2100 Fax: 630.862.2199
E-Mail: cadd@cemcon.com Website: www.cemcon.com


| | | | |
|---|---|---|---|
| FILE NAME = \MICROST\352072\ RT53 @JOLIET SIG.DGN | USER NAME = RDS | DESIGNED - KK | REVISED - |
| | | DRAWN - RDS | REVISED - |
| | PLOT SCALE = 1"=20' | CHECKED - BPT | REVISED - |
| | PLOT DATE = 03-18-09 | DATE - 03-18-09 | REVISED - |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN**
**IL. ROUTE 53 AT JOLIET ROAD**

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 2009-039 TS | WILL | 20 | 17 |
| | | CONTRACT NO. 60G44 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |