FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
586	60R-2, 37R-1	MADISON	502	222
STA.	TO STA.			
EXISTING CONDITIONS:				

CONTRACT 76301

TRAFFIC SIGNALS LEGEND

GSC	GALVANIZED STEEL CONDUIT
PVCC	POLYVINYL CHLORIDE CONDUIT
	EXISTING SIGNAL POST WITH BACKPLATE
	EXISTING TRAFFIC SIGNAL MAST ARM
	EXISTING HANDHOLE
	EXISTING DOUBLE HANDHOLE
	EXISTING CONTROLLER
	EXISTING STREET NAME SIGN/TRAFFIC SIGN
	EXISTING SIGNAL HEAD, PEDESTRIAN
	EXISTING PEDESTRIAN PUSHBUTTON DETECTOR
	PROPOSED SIGNAL HEAD WITH BACKPLATE, MAST ARM MOUNTED
	PROPOSED HANDHOLE
	PROPOSED DOUBLE HANDHOLE
	PROPOSED DETECTOR LOOP
	PROPOSED CONTROLLER
	PROPOSED PEDESTRIAN PUSHBUTTON DETECTOR
	PROPOSED SIGNAL HEAD, PEDESTRIAN
	PROPOSED CONDUIT: "T" TRENCH, "P" PUSH, SIZE SPECIFIED
	PROPOSED SERVICE INSTALLATION
	PROPOSED SIGNAL POST

PUSH BUTTON FOR — R10-4a 9" x 12"

PUSH BUTTON FOR — R10-4b 9" x 12"

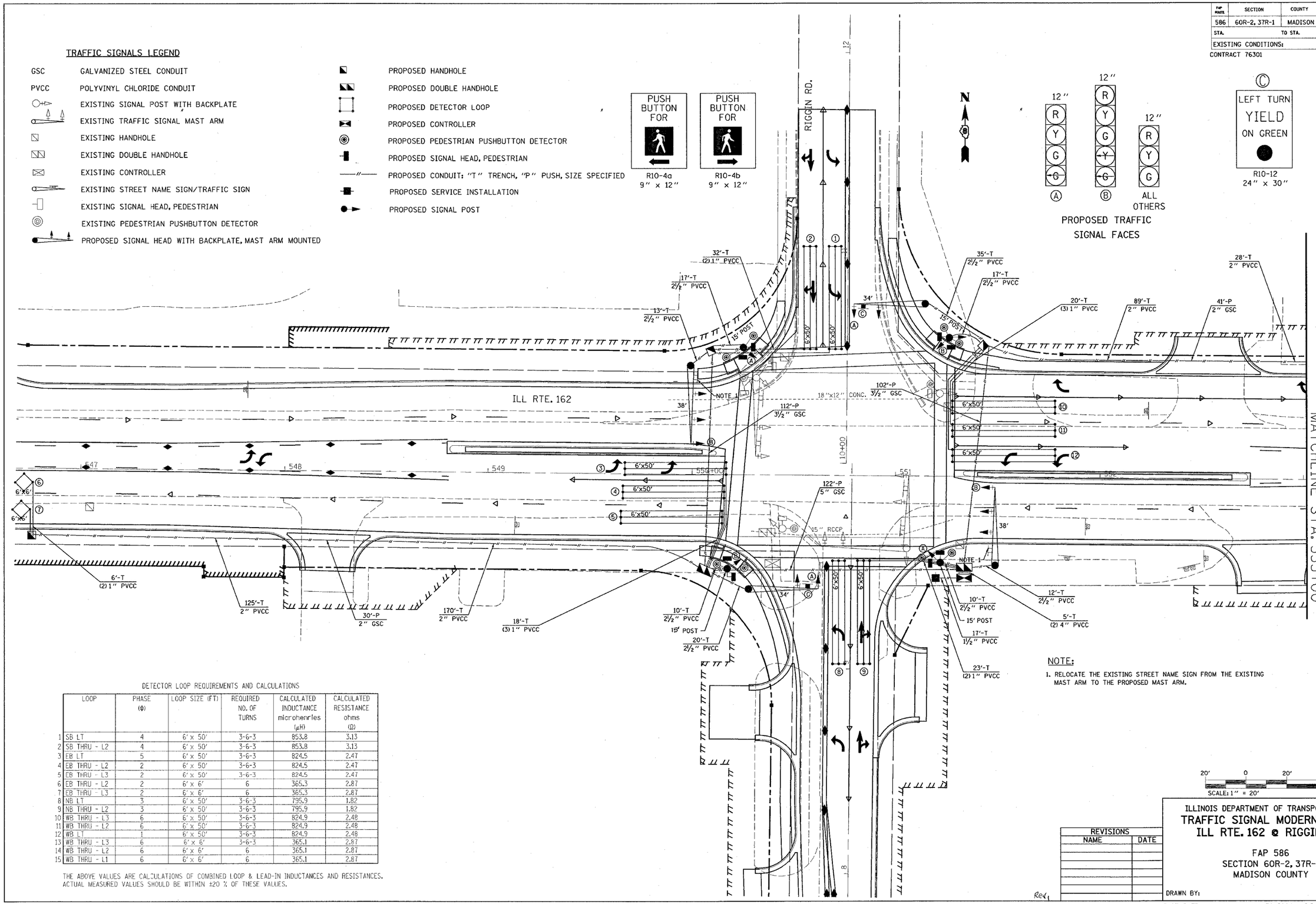
PROPOSED TRAFFIC SIGNAL FACES

(A) 12" R Y G G

(B) 12" R Y G Y G

ALL OTHERS 12" R Y G

(C) LEFT TURN YIELD ON GREEN — R10-12 24" x 30"



DETECTOR LOOP REQUIREMENTS AND CALCULATIONS

	LOOP	PHASE (Φ)	LOOP SIZE (FT)	REQUIRED NO. OF TURNS	CALCULATED INDUCTANCE microhenries (μH)	CALCULATED RESISTANCE ohms (Ω)
1	SB LT	4	6' x 50'	3-6-3	853.8	3.13
2	SB THRU - L2	4	6' x 50'	3-6-3	853.8	3.13
3	EB LT	5	6' x 50'	3-6-3	824.5	2.47
4	EB THRU - L2	2	6' x 50'	3-6-3	824.5	2.47
5	EB THRU - L3	2	6' x 50'	3-6-3	824.5	2.47
6	EB THRU - L2	2	6' x 6'	6	365.3	2.87
7	EB THRU - L3	2	6' x 6'	6	365.3	2.87
8	NB LT	3	6' x 50'	3-6-3	795.9	1.82
9	NB THRU - L2	3	6' x 50'	3-6-3	795.9	1.82
10	WB THRU - L3	6	6' x 50'	3-6-3	824.9	2.48
11	WB THRU - L2	6	6' x 50'	3-6-3	824.9	2.48
12	WB LT	1	6' x 50'	3-6-3	824.9	2.48
13	WB THRU - L3	6	6' x 6'	3-6-3	365.1	2.87
14	WB THRU - L2	6	6' x 6'	6	365.1	2.87
15	WB THRU - L1	6	6' x 6'	6	365.1	2.87

THE ABOVE VALUES ARE CALCULATIONS OF COMBINED LOOP & LEAD-IN INDUCTANCES AND RESISTANCES. ACTUAL MEASURED VALUES SHOULD BE WITHIN ±20 % OF THESE VALUES.

NOTE:

1. RELOCATE THE EXISTING STREET NAME SIGN FROM THE EXISTING MAST ARM TO THE PROPOSED MAST ARM.

20' 0 20' 40'

SCALE: 1" = 20'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION
ILL RTE. 162 @ RIGGIN RD.

FAP 586
SECTION 60R-2, 37R-1
MADISON COUNTY

DRAWN BY:

PLOT DATE: Wednesday June 30, 2004 @ 9:51:29 AM

PLAN | SURVEYED | DRAWN | ALIGNMENT CHECKED | PT. OF MAT. CHECKED | QUAN. FILE NAME | NOTE BOOK | NO. | BY | DATE

6/30/2004
Wednesday June 30, 2004 @ 9:51:29 AM
d:\projects\ved69999\plans\seal\pl-638adgn LV1-163
d:\projects\ved69999\plans\seal\pl-638bdgn LV1-163
C:\projects\ved\spec2005\dgn LV1-2,7-13,15,17,25,27-29,37-40,42-46,48,50,52,57-59
C:\projects\ved\plan\dgn\638bdgn LV1-2,7-13,15,17,25,27-29,37-40,42-46,48,50,52,57-59
C:\projects\ved\N236ch01.ref LV1-7-9,11,13,15,17,25,27-29,37-40,42,46-48,50,52,57-59
C:\projects\ved\plan\638adgn LV1-2,6-7,11,13,15,17,25,27-29,37-40,42-46,48,50,52,57-59
C:\projects\ved\plan\638bdgn LV1-2,6-7,11,13,15,17,25,27-29,37-40,42-46,48,50,52,57-59
d:\projects\ved69999\plans\seal\file638adgn LV1113