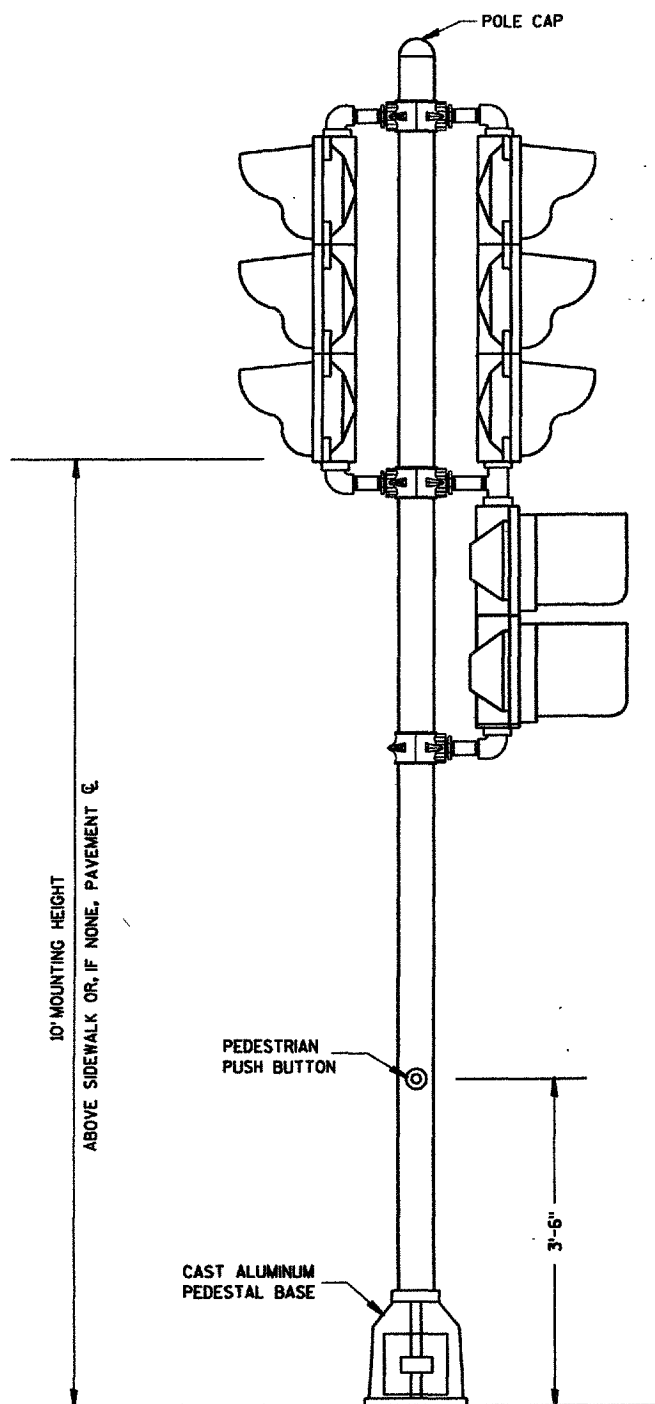


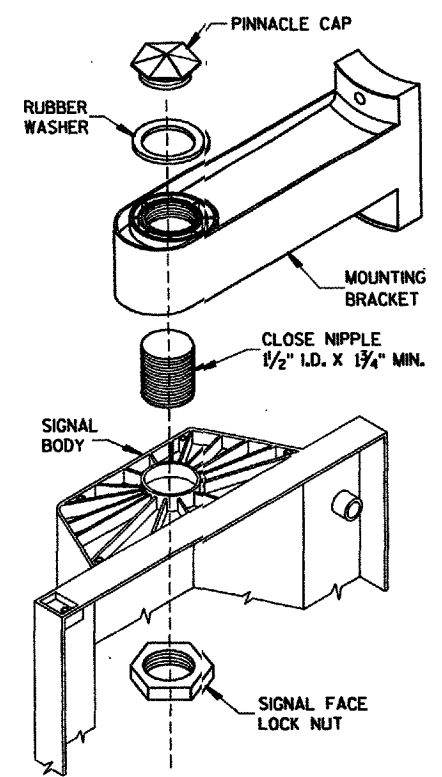
LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



TRAFFIC SIGNAL STANDARD-13'

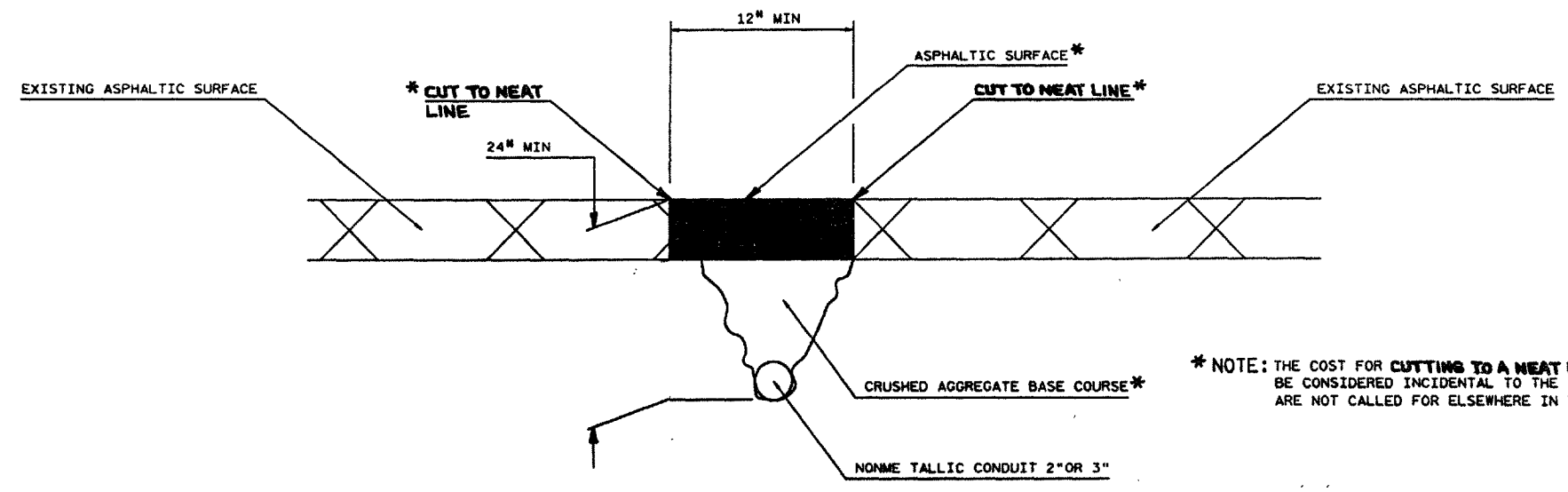
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.



SIGNAL FACE MOUNTING DETAIL

LOMBARDI AVE



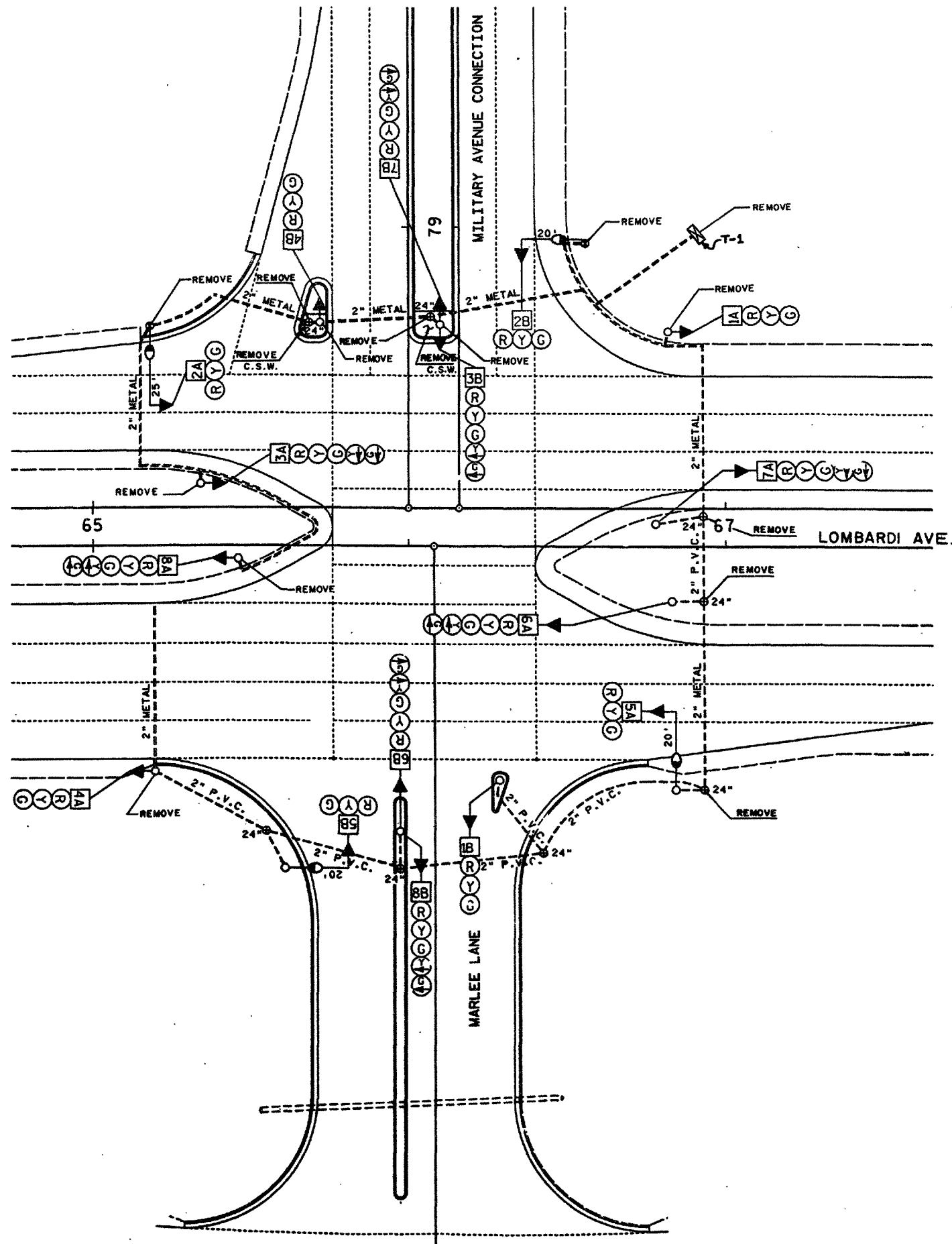
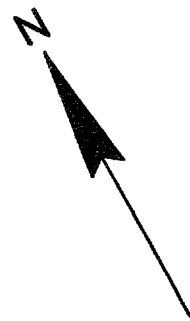
* NOTE: THE COST FOR CUTTING TO A HEAT LINE, EXCAVATING, BACKFILLING, AND REPLACING ASPHALT SHALL BE CONSIDERED INCIDENTAL TO THE ITEM FOR NONMETALLIC CONDUIT WHEN SPECIFIC REMOVALS ARE NOT CALLED FOR ELSEWHERE IN THE PLAN.

DETAIL FOR CONDUIT PLACEMENT OUTSIDE ROADWAY
SW QUADRANT AT ONEIDA STREET
SE & SW QUADRANT AT RIDGE ROAD

22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60.

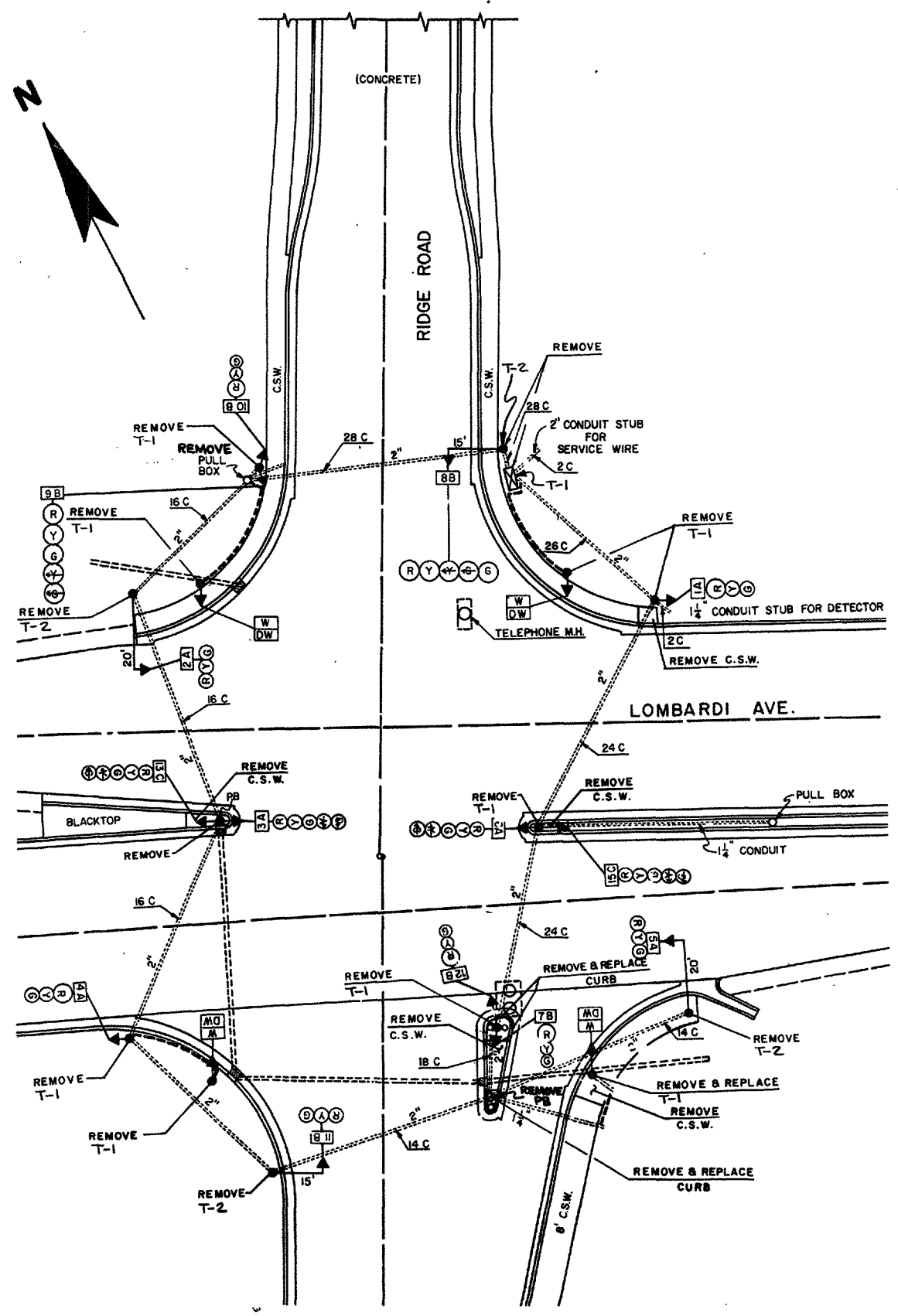
LEVELS ON =

LEVELS ON = 1102.13, 14.15, 16.17, 18.19, 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



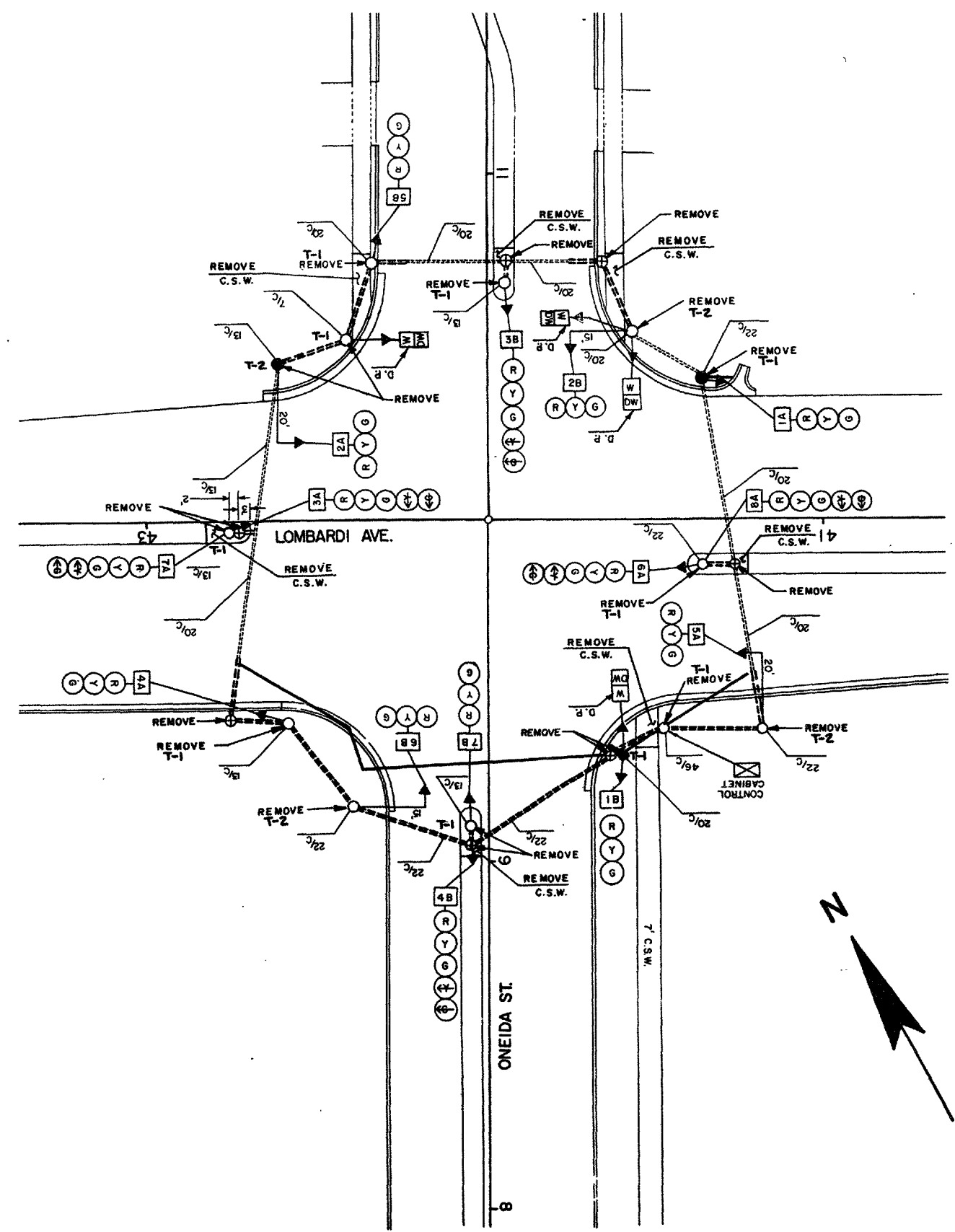
STATE PROJECT NUMBER 4690-06-90	SHEET NO. 2.2
REMOVALS	

REMOVALS

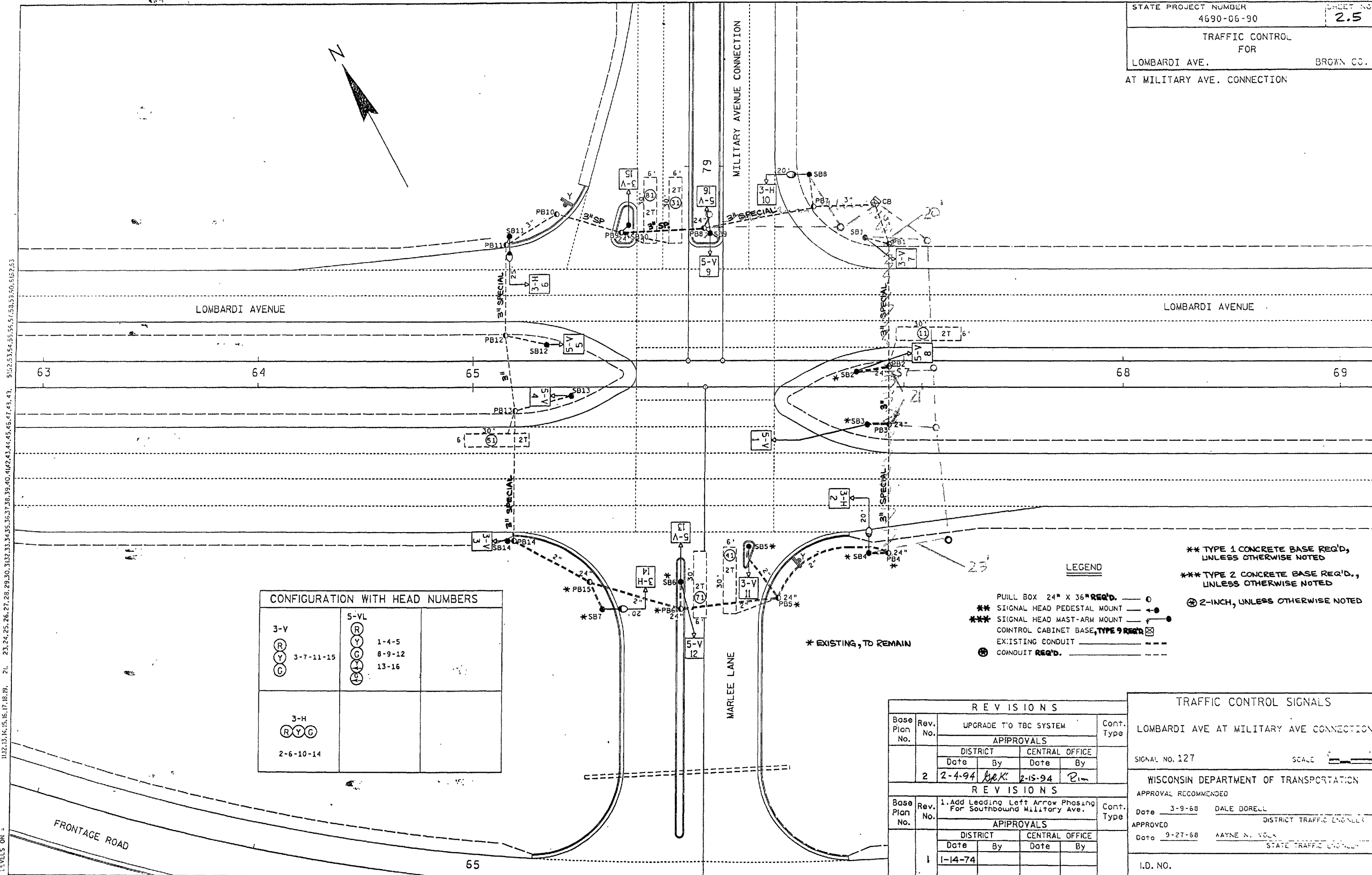


LEVELS ON = 21.23, 24.14, 15.16, 17.18, 19.21, 23.24, 25.26, 27.28, 29.30, 31.32, 33.34, 35.36, 37.38, 39.40, 41.42, 43.44, 45.46, 47.48, 49.51, 53.54, 55.56, 57.58, 59.60, 61.62, 63

LEVELS ON = 11,12,13,14,15,16,17,18,19, 21, 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49, 51,52,53,54,55,56,57,58,59,60,61,62,63



LEVELS ON: 112.13, 14, 15, 16, 17, 18, 19, 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

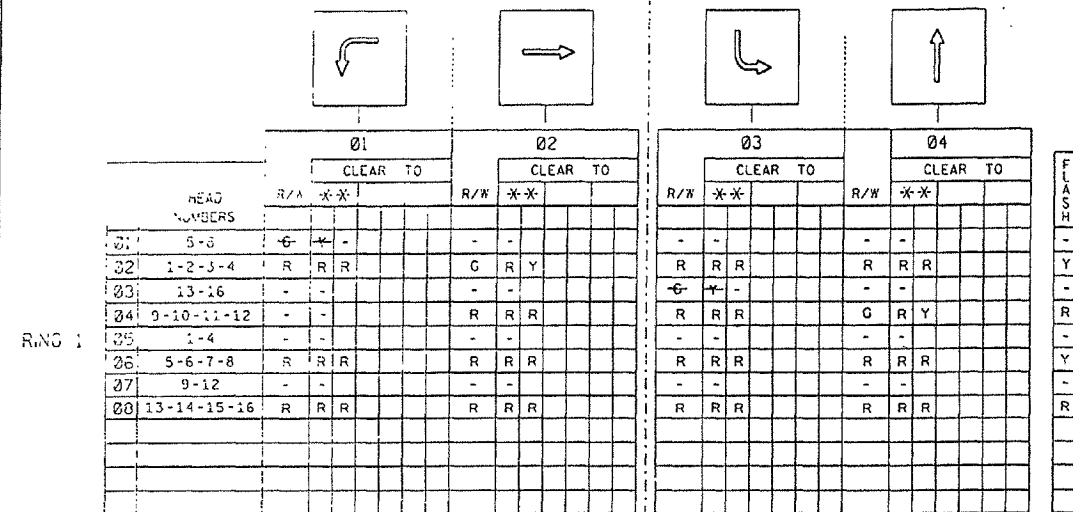


CONFIGURATION WITH HEAD NUMBERS		
3-V (R) (Y) (G)	5-VL (R) (Y) (G) (A) (C)	1-4-5 8-9-12 13-16
3-H (R) (Y) (G)		
2-6-10-14		

REVISIONS			
Base Plan No.	Rev. No.	UPGRADE TO TBC SYSTEM	Cont. Type
APPROVALS			
DISTRICT		CENTRAL OFFICE	
Date	By	Date	By
2-4-94	hpk	2-15-94	elm
REVISIONS			
Base Plan No.	Rev. No.	1. Add Leading Left Arrow Phasing For Southbound Military Ave.	Cont. Type
APPROVALS			
DISTRICT		CENTRAL OFFICE	
Date	By	Date	By
1-14-74			

TRAFFIC CONTROL SIGNALS	
LOMBARDI AVE AT MILITARY AVE CONNECTION	
SIGNAL NO. 127	SCALE
WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVAL RECOMMENDED	
Date 3-9-68	DALE GORELL
APPROVED	
Date 9-27-68	WAYNE N. VOLK
I.D. NO.	

SEQUENCE OF OPERATION



DETECTOR LOGIC

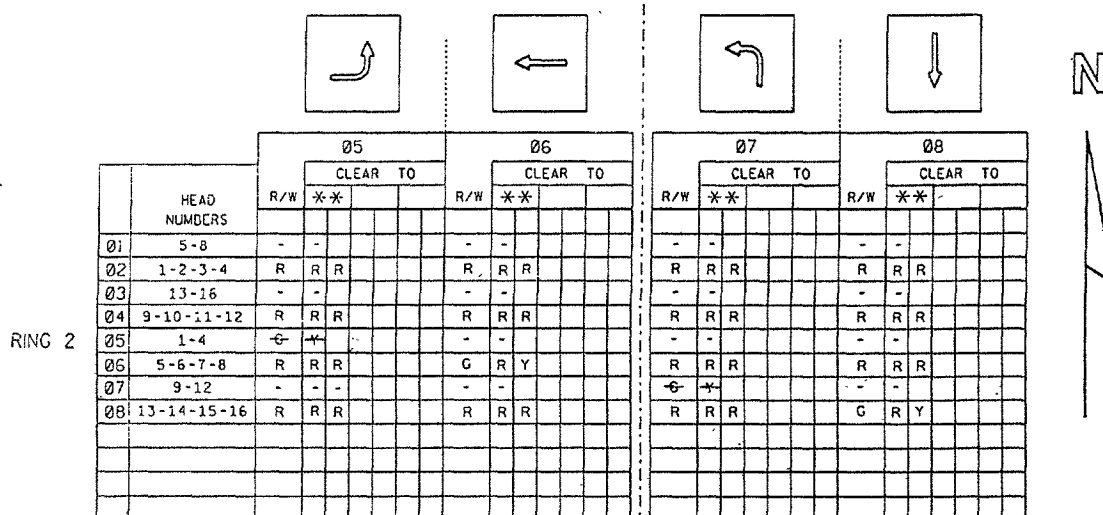
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CONTROLLER LOGIC

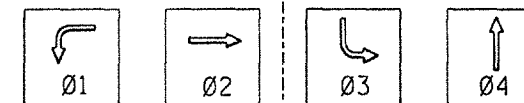
PHASE NUMBER	PHASE LOCKING	DUAL ENTRY N / Ø	PHASE RECALL
1			
2			MIN.
3		N / Ø8	
4		N / Ø8	
5			
6			MIN.
7		N / Ø4	
8		N / Ø4	

OVERLAPS

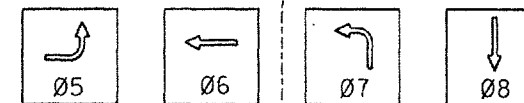
Q.L. "A" =	
Q.L. "B" =	NONE
Q.L. "C" =	
Q.L. "D" =	



RING 1



RING 2



BARRIER

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1 BELOW)

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
01	5-6	2,3,4,7,8
02	5-6	1,3,4,7,8
03	7-8	1,2,4,5,6
04	7-8	1,2,3,5,6
05	1-2	3,4,6,7,8
06	1-2	3,4,5,7,8
07	3-4	1,2,5,6,8
08	3-4	1,2,5,6,7

TYPE OF INTERCONNECT

NONE	
TBC	
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	

TYPE OF PRE-EMPT

NONE	
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING

NONE	
IN TRAFFIC CONTROL CABINET	
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL.
(SEE CHART 1 AT LEFT.)
3. IF ANY OPPOSING THRU PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

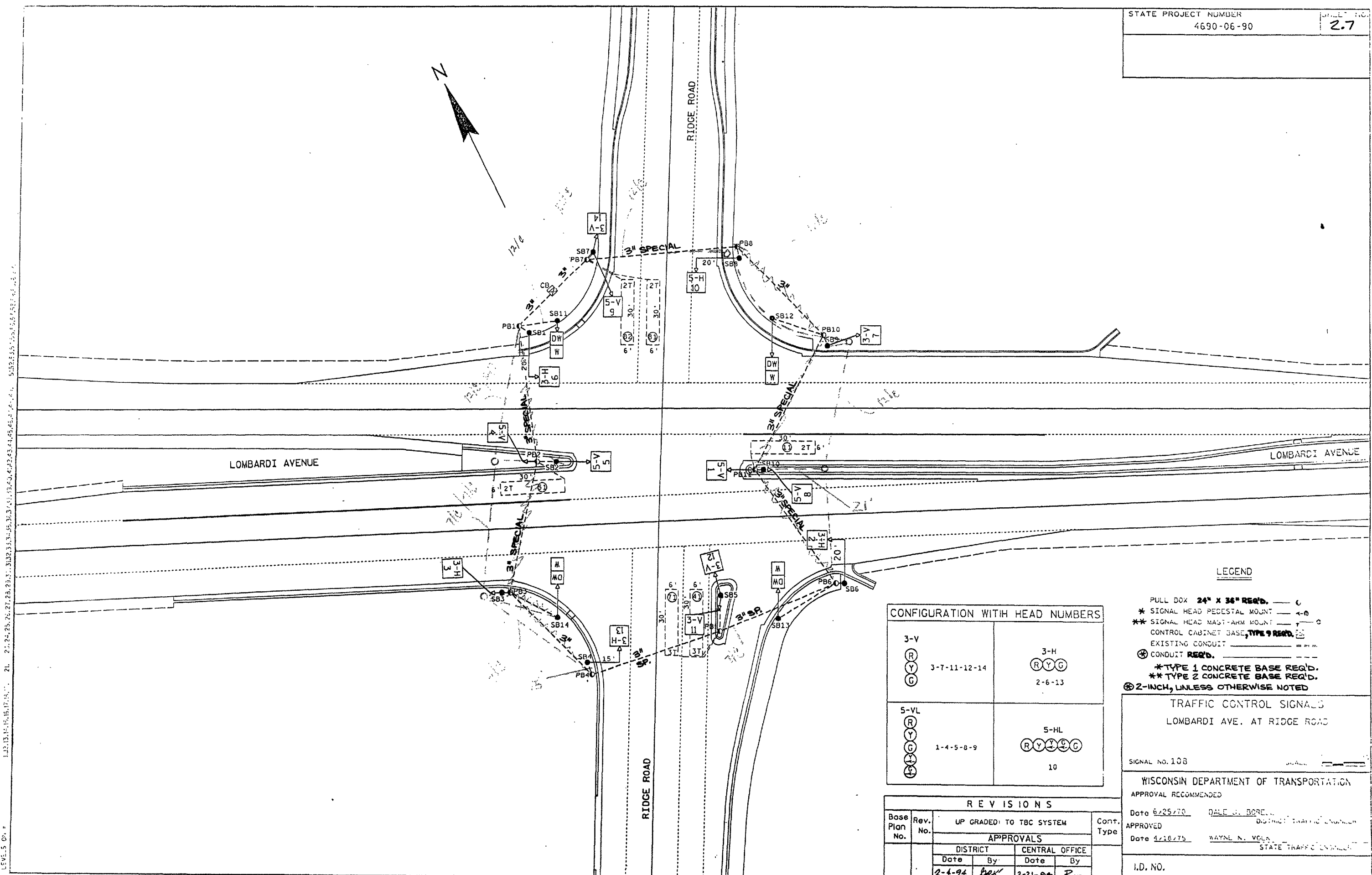
LOMBARDI AVE AT MILITARY AVE CONNECTION

BROWN CO.

SIGNAL NO. 127

DATE _____

Suzanne L.



CONFIGURATION WITH HEAD NUMBERS

3-V (R) (Y) (G) 3-7-11-12-14	3-H (R) (Y) (G) 2-6-13
5-VL (R) (Y) (G) (Y) (G) 1-4-5-8-9	5-HL (R) (Y) (Y) (Y) (G) 10

REVISIONS

Base Plan No.	Rev. No.	UP GRADED TO TBC SYSTEM	Cont. Type
		APPROVALS	
		DISTRICT	CENTRAL OFFICE
		Date By	Date By
		2-4-94 <i>brk</i>	2-21-94 <i>R.m</i>

LEGEND

- PULL BOX 24" X 36" REQ'D.
- * SIGNAL HEAD PEDESTAL MOUNT
- ** SIGNAL HEAD MAST-ARM MOUNT
- CONTROL CABINET BASE, TYPE 9 REQ'D.
- EXISTING CONDUIT
- CONDUIT REQ'D.
- * TYPE 1 CONCRETE BASE REQ'D.
- ** TYPE 2 CONCRETE BASE REQ'D.
- 2-INCH, UNLESS OTHERWISE NOTED

TRAFFIC CONTROL SIGNALS
LOMBARDI AVE. AT RIDGE ROAD

SIGNAL NO. 108

WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVAL RECOMMENDED

Date 6/25/70 DALE J. BORELL
APPROVED DISTRICT TRAFFIC ENGINEER
Date 4/18/75 WAYNE N. VOGL
STATE TRAFFIC ENGINEER

I.D. NO.

[illegible][illegible]

2.8

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / S	PHASE RECALL
1			
2			MIN.
3			
4		W / S	
5			
6			MIN.
7		W / S	
8		W / S	

O.L. "A" =	
O.L. "B" =	NONE
O.L. "C" =	
O.L. "D" =	

- *- CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1 BELOW)
- * WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK.

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
01	5-6	2-4-7-8
02	5-6	1-4-7-8
03	NOT USED	-
04	7-8	1-2-5-6
05	1-2	4-6-7-8
06	1-2	4-5-7-8
07	4	1-2-5-6-8
08	4	1-2-5-6-7

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL.
(SEE CHART 1AT LEFT.)
3. IF ANY OPPOSING THRU PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

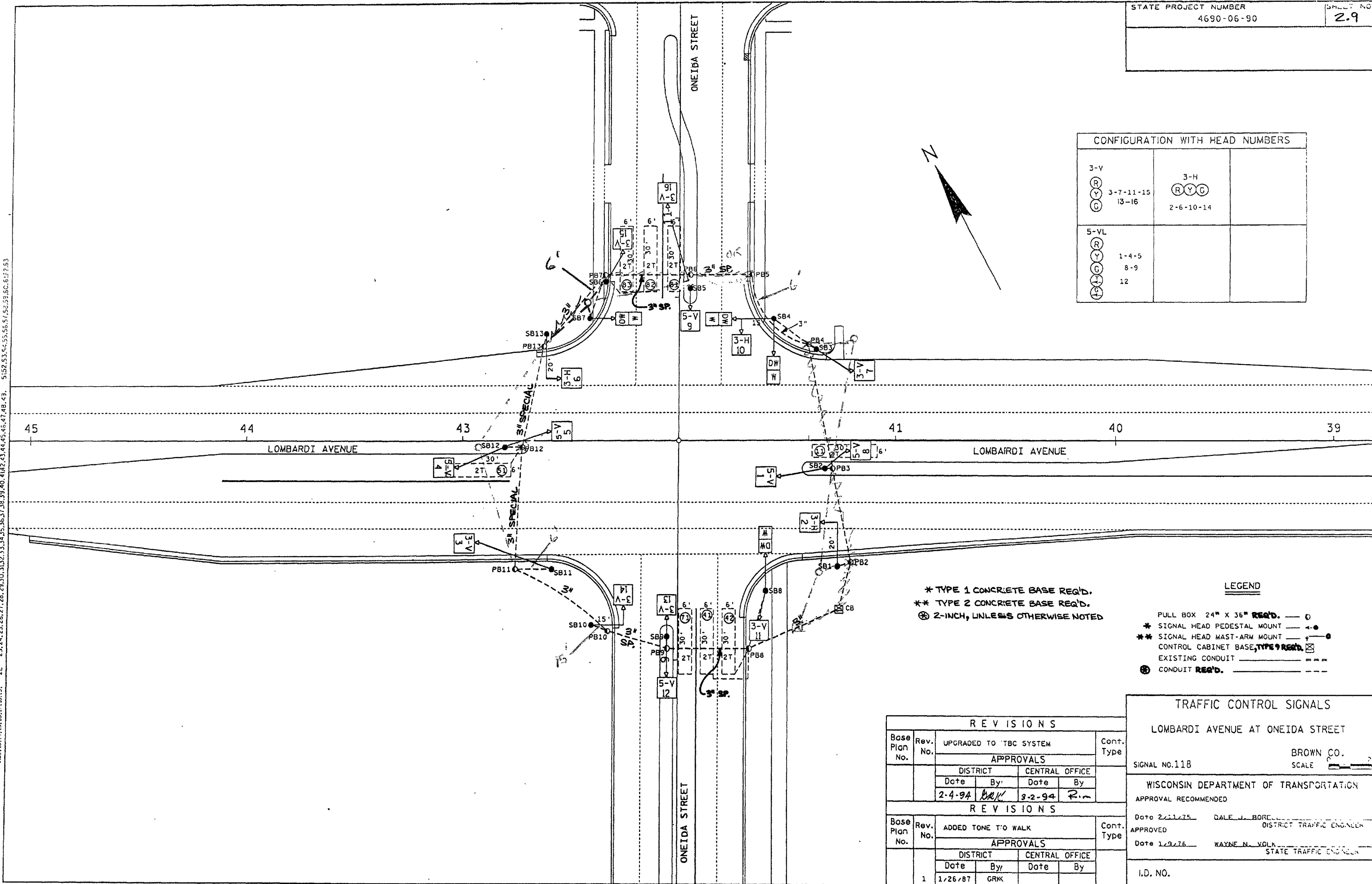
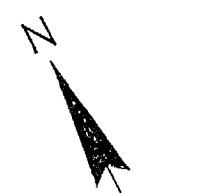
NONE	
TBC	
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	

NONE	
RAILROAD	
EMERGENCY VEHICLE	

NONE	
IN TRAFFIC CONTROL CABINET	
IN SEPARATE CONTROL CABINET	

LEVELS ON = 11.2, 13.14, 15, 16.17, 18.19, 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 7, 8, 3

CONFIGURATION WITH HEAD NUMBERS		
3-V (R) (Y) (G)	3-7-11-15 13-16	3-H (R)(Y)(G) 2-6-10-14
5-VL (R) (Y) (G) (A) (B)	1-4-5 8-9 12	



* TYPE 1 CONCRETE BASE REQ'D.
** TYPE 2 CONCRETE BASE REQ'D.
⊗ 2-INCH, UNLESS OTHERWISE NOTED

LEGEND	
PULL BOX 24" X 36" REQ'D.	— ○
* SIGNAL HEAD PEDESTAL MOUNT	— ●
** SIGNAL HEAD MAST-ARM MOUNT	— ●
CONTROL CABINET BASE, TYPE 9 REQ'D.	— ⊗
EXISTING CONDUIT	— — —
⊗ CONDUIT REQ'D.	— — —

REVISIONS					
Base Plan No.	Rev. No.	UPGRADED TO TBC SYSTEM			
		APPROVALS			
		DISTRICT		CENTRAL OFFICE	
		Date	By	Date	By
		2-4-94	GRK	3-2-94	R.m
REVISIONS					
Base Plan No.	Rev. No.	ADDED TONE TO WALK			
		APPROVALS			
		DISTRICT		CENTRAL OFFICE	
		Date	By	Date	By
1		1/26/87	GRK		

TRAFFIC CONTROL SIGNALS

LOMBARDI AVENUE AT ONEIDA STREET

SIGNAL NO. 118

BROWN CO.
SCALE 1" = 40'

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED

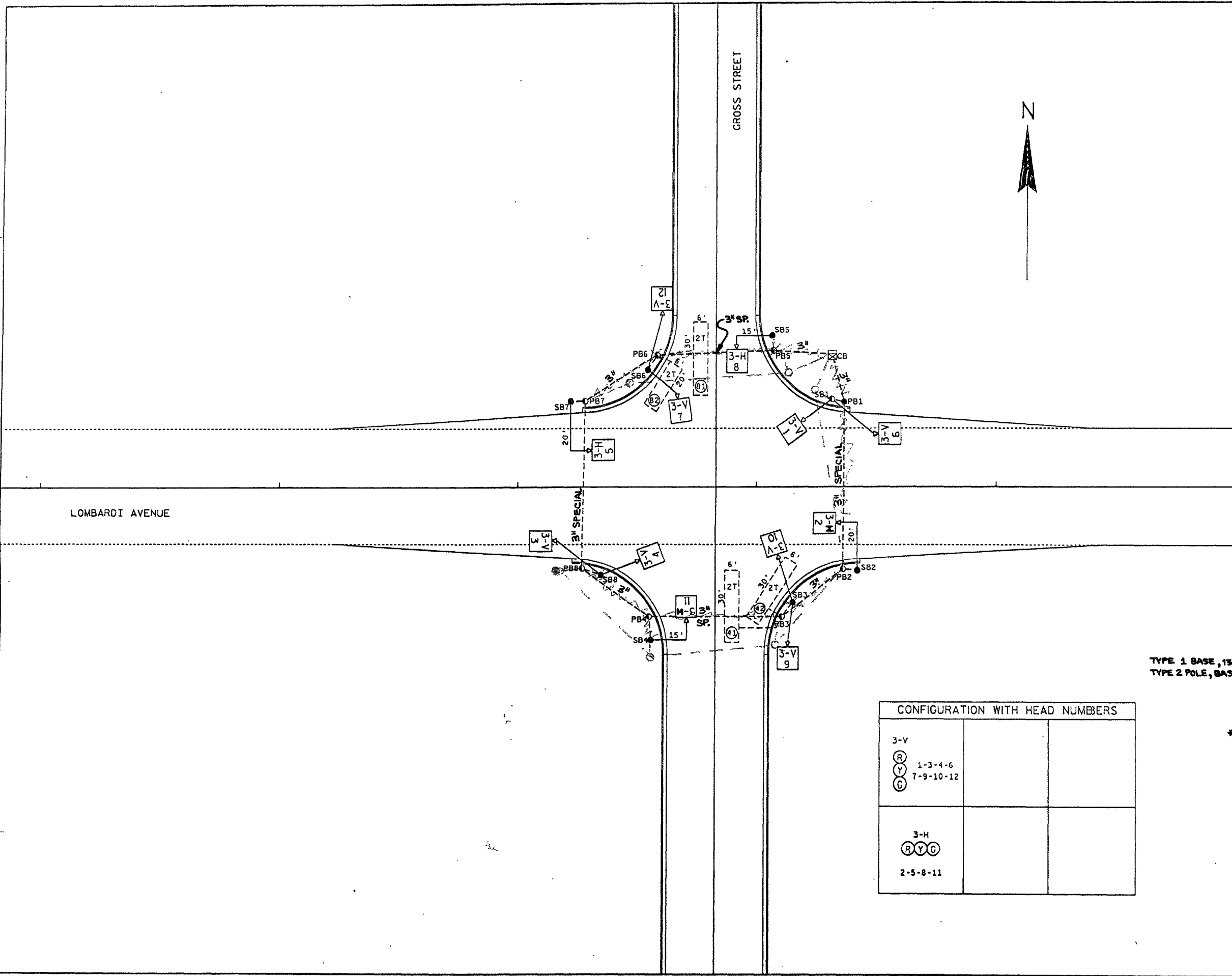
Date 2/23/75 GALE J. BOREL
DISTRICT TRAFFIC ENGINEER

APPROVED

Date 1/9/76 WAYNE N. VOLK
STATE TRAFFIC ENGINEER

I.D. NO.

LEVELS ON = 11.12, 13, 14, 15, 16, 17, 18, 19, 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



CONFIGURATION WITH HEAD NUMBERS		
3-V (R) (Y) (G)	1-3-4-6 7-9-10-12	
3-H (R) (Y) (G)	2-5-8-11	

- LEGEND

PULL BOX 24" X 36" REQ'D. — 0

TYPE 1 BASE, 15" STD. & SIGNAL HEAD PEDESTAL MOUNT REQ'D. — 0

TYPE 2 POLE, BASE & SIGNAL HEAD MAST-ARM MOUNT REQ'D. — 0

CONTROL CABINET BASE, TYPE 9 REQ'D. — 0

* CONDUIT REQ'D. — — — —

* 2-INCH, UNLESS OTHERWISE NOTED

TRAFFIC CONTROL SIGNALS

LOMBARDI AVENUE AT GROSS STREET

BROWN CO.

SIGNAL NO. 518

SCALE 0 20

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED

Date 2-4-94

Donald R. Kuntz

DISTRICT TRAFFIC ENGINEER

APPROVED

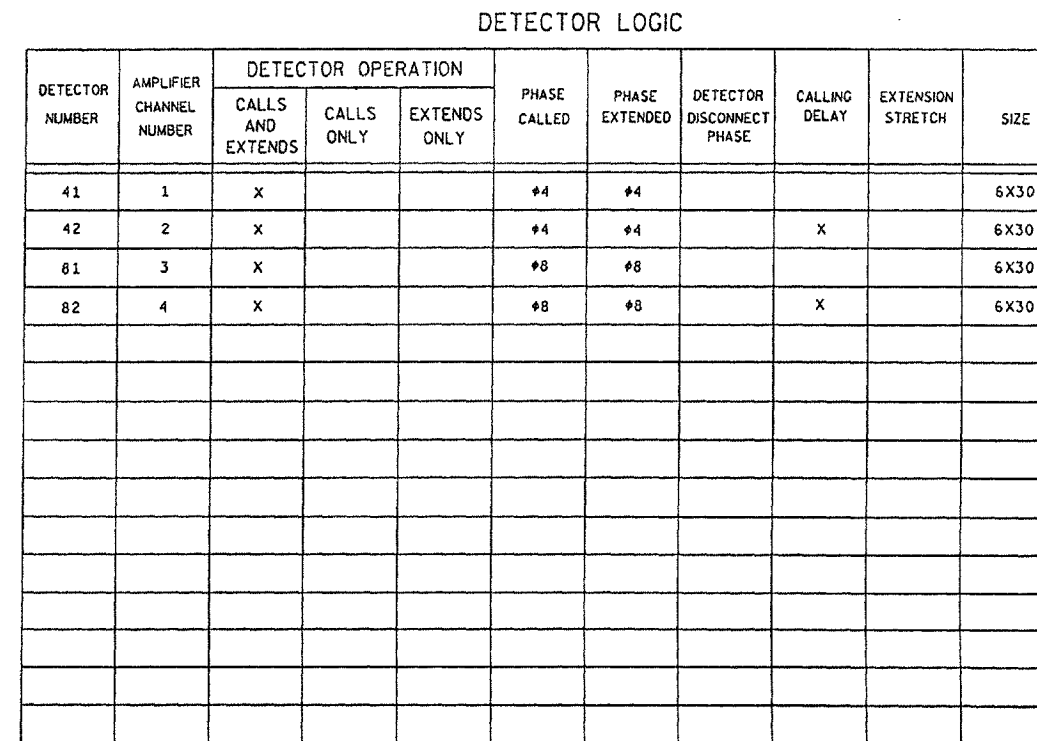
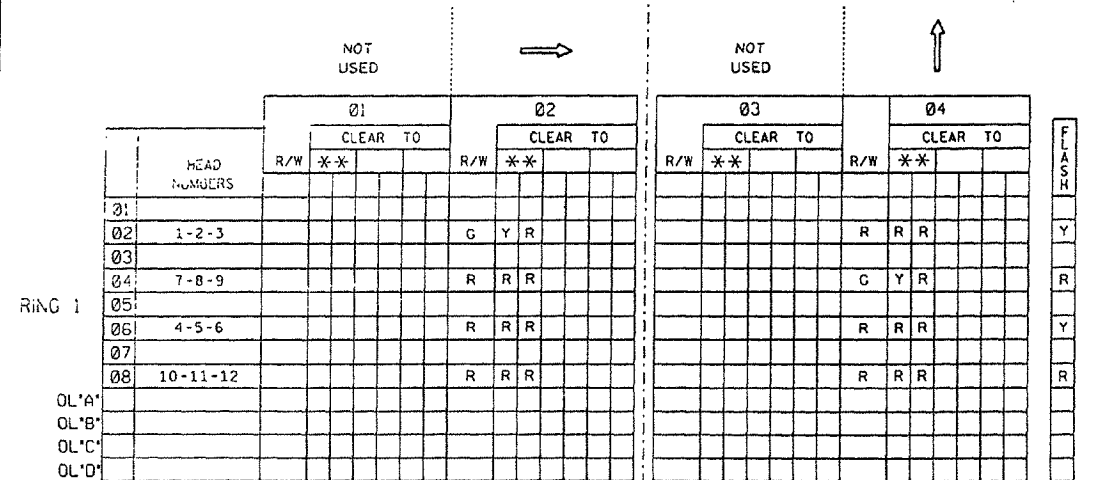
Date 2-15-94

RIN

STATE TRAFFIC ENGINEER

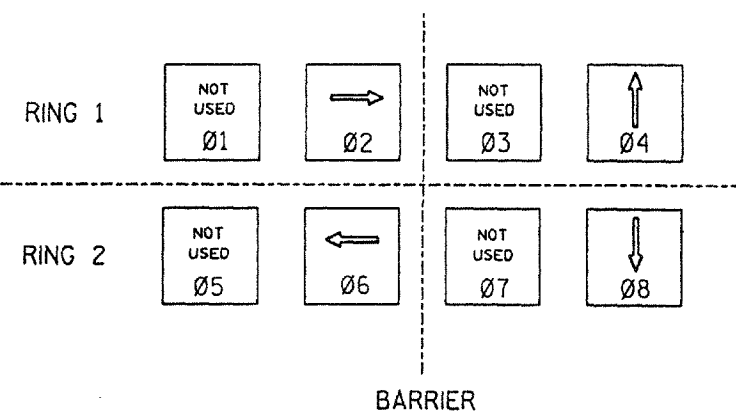
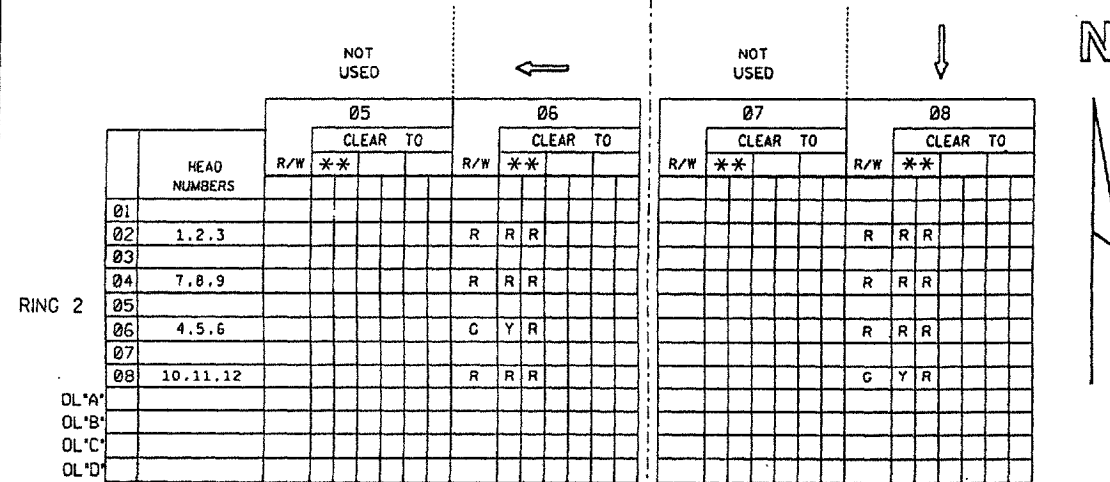
I.D. NO.

SEQUENCE OF OPERATION



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL
1			
2			MIN.
3			
4		W, Ø8	
5			
6			MIN.
7			
8		W, Ø4	



OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1 BELOW)

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
01	NOT USED	
02	#6	4-8
03	NOT USED	
04	#8	2-6
05	NOT USED	
06	#2	4-8
07	NOT USED	
08	#4	2-6

TYPE OF INTERCONNECT

NONE	
TBC	
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	

TYPE OF PRE-EMPT

NONE	
RAILROAD	
EMERGENCY VEHICLE	

TYPE: OF LIGHTING

NONE	
IN TRAFFIC CONTROL CABINET	
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL.
(SEE CHART 1 AT LEFT.)
3. IF ANY OPPOSING THRU PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

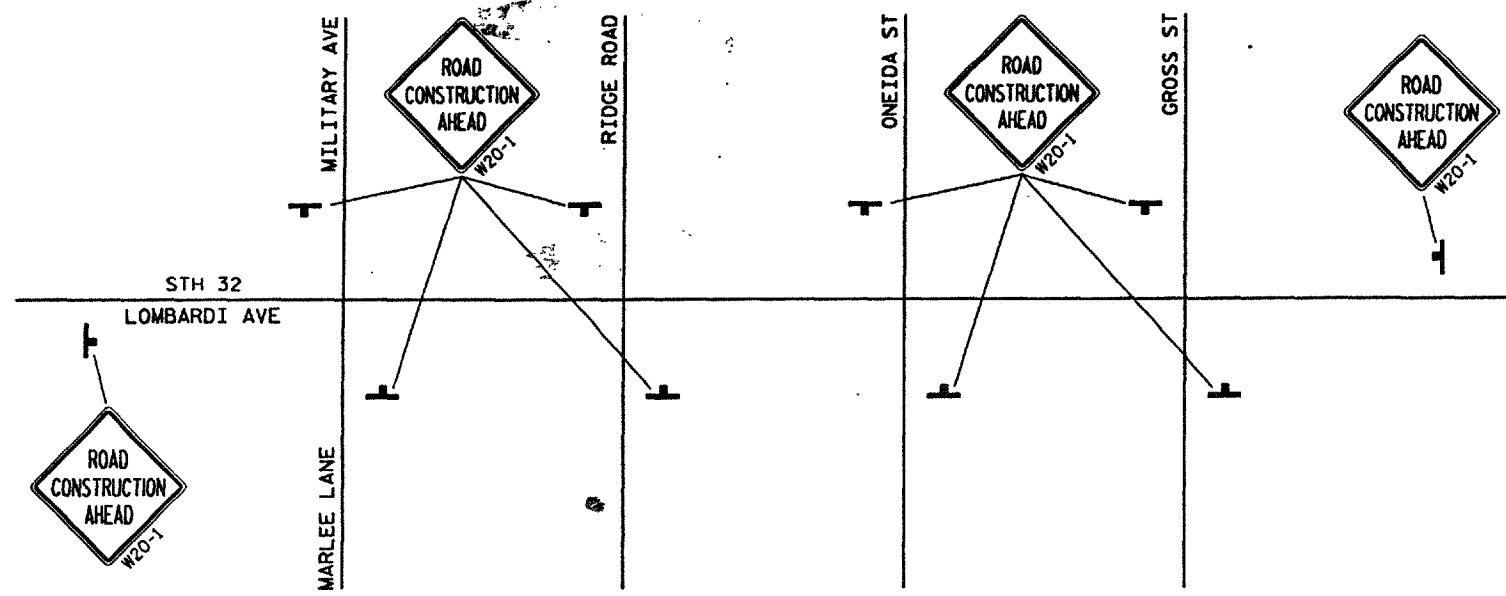
LOMBARDI AVE. AT CROSS AVE.

SIGNAL NO. 518

DATE	SHEET NO.	OF
------	-----------	----

22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60.

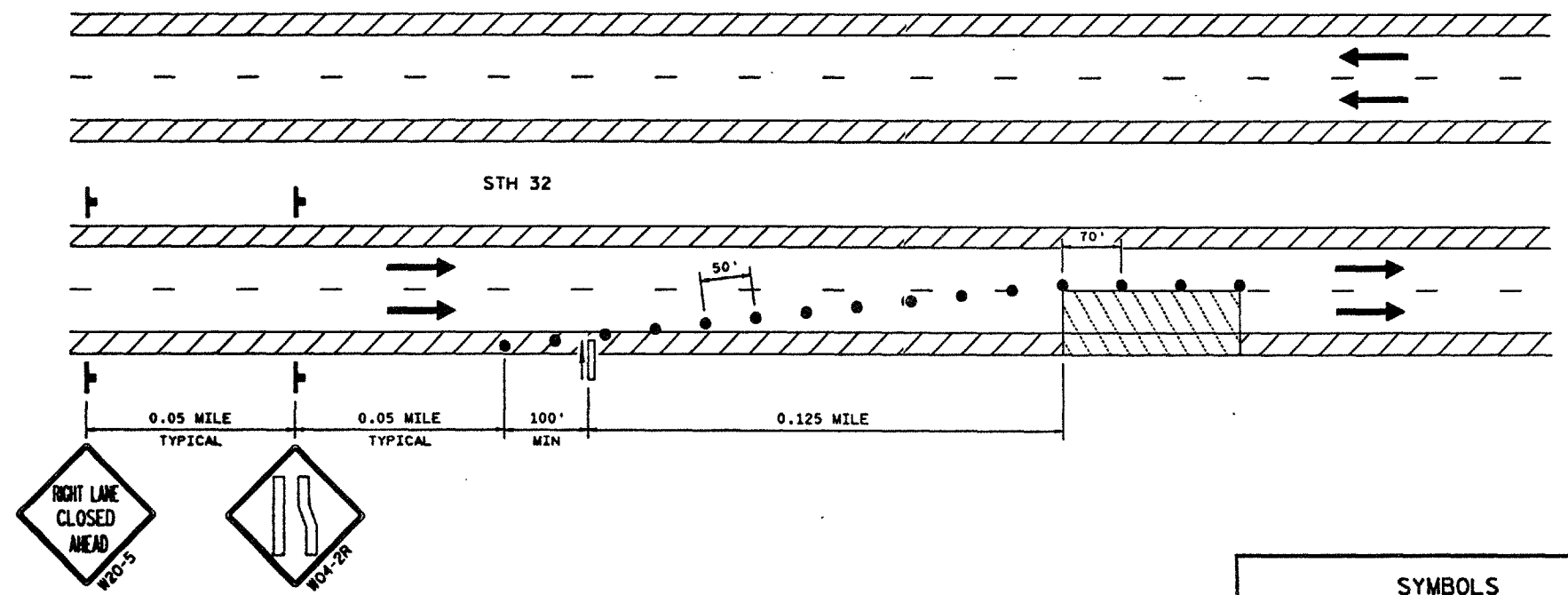
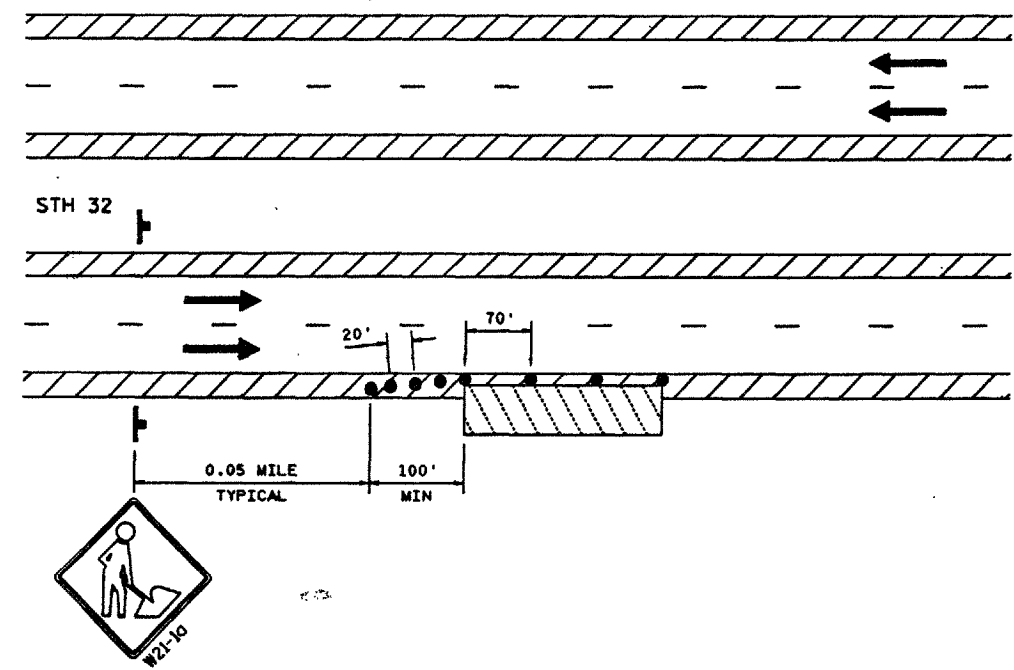
LEVELS ON =



TRAFFIC CONTROL

TRAFFIC CONTROL NOTES

FLASHERS ON VEHICLES SHALL BE ACTIVATED AT ALL TIMES.
ALL SIGNS SHALL BE 48" X 48", EXCEPT AS NOTED.
IF THE SIGHT DISTANCE OR TERRAIN SUGGESTS A MORE LOGICAL PLACEMENT OF SIGNS TO WARN MOTORISTS, VARIATION IN PLACEMENT IS ALLOWED.
CHANNELING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.
ALL LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL ARROW BOARDS AND DEVICES REMOVED BEYOND THE SHOULDER WHEN THE WORK IS NOT IN PROGRESS AND THE LANE IS RESTORED TO A SAFE OPERATING CONDITION.
CHANNELIZING DEVICES SHALL BE SPACED AT 100 FEET ADJACENT TO AN OPEN TRAFFIC LANE AND SHOULD NOT PROJECT INTO THAT LANE.
"W0" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.



SYMBOLS

- WORK AREA
- DRUM OR CONE
- DIRECTION OF TRAFFIC FLOW
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- 4' X 8' FLASHING ARROW BOARD