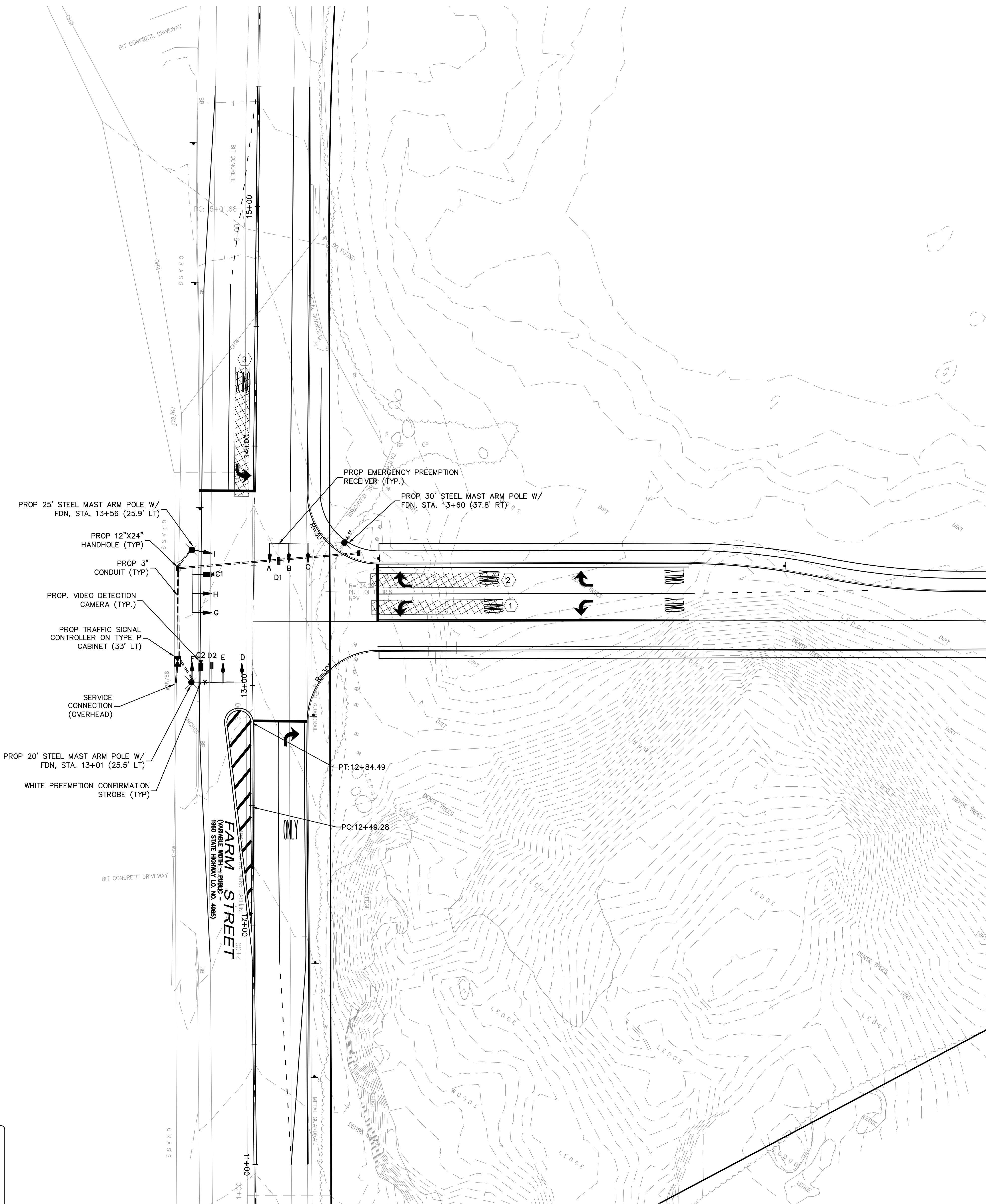
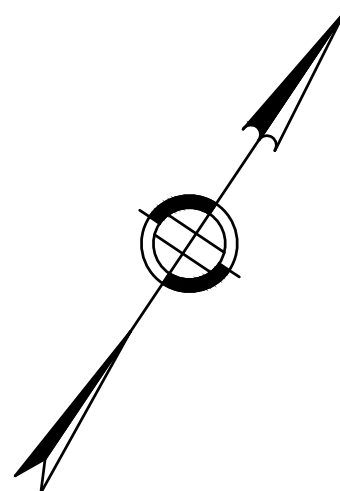
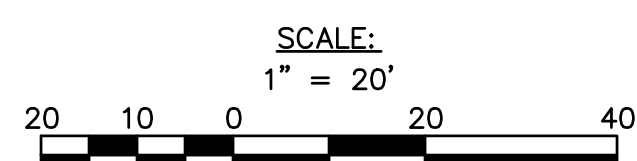
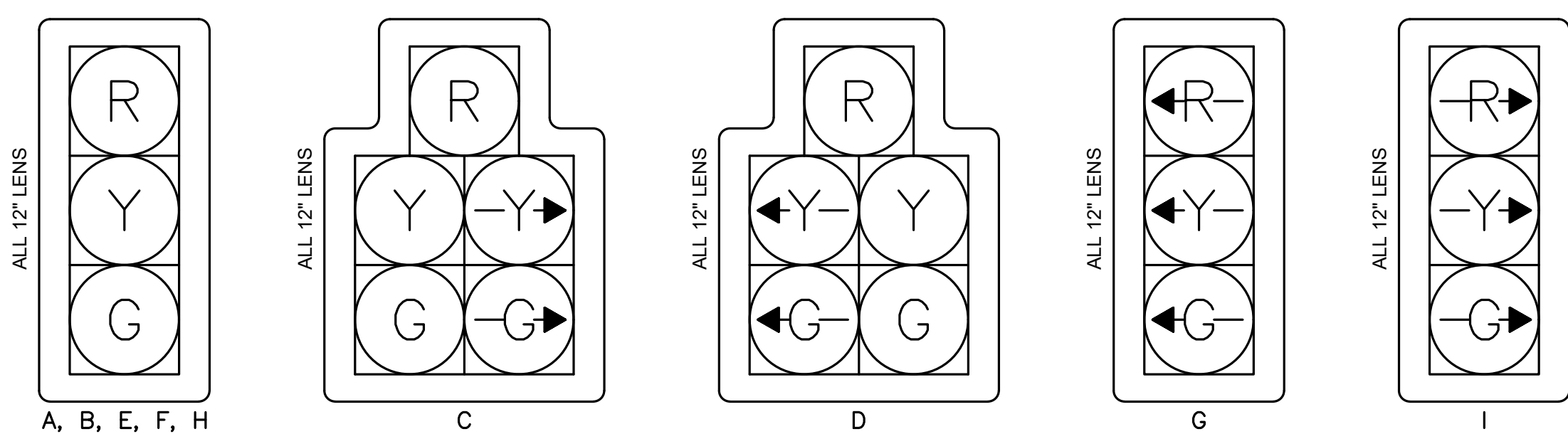




SIGNAL IDENTIFICATION

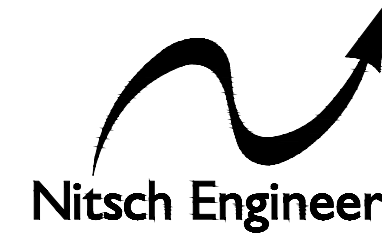


DRA

Drummeey Rosane Anderson, Inc.
225 Oakland Road
South Windsor, CT 06074
260 Charles Street
Studio 300
Waltham, MA 02453
Planning | Architecture | Interior Design
Tel: 617.966.1710
www.dra-inc.com

NORTHEAST
METROPOLITAN
REGIONAL
VOCATIONAL
HIGH SCHOOL

100 Hemlock Rd,
Wakefield, MA 01880



www.nitscheng.com
2 Center Plaza, Suite 430
Boston, MA 02108
T: (617) 338-0063
F: (617) 338-6472

- Civil Engineering
 - Land Surveying
 - Transportation Engineering
 - Structural Engineering
 - Green Infrastructure
 - Planning
 - GIS
- NITSCH PROJECT No. 13872

MSBA 60% CD
SUBMISSION

JANUARY 13, 2023

TRAFFIC SIGNAL
PLAN

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

TR-100

100 Hemlock Rd,
Wakefield, MA 01880

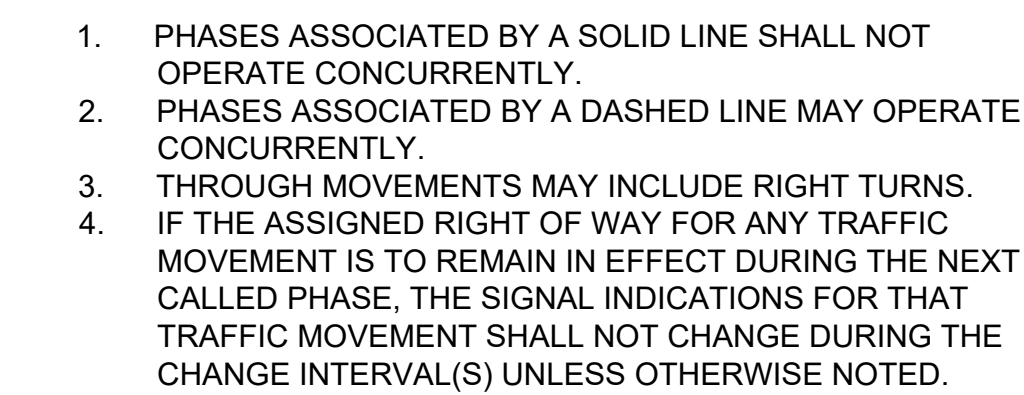


2 Center Plaza, Suite 430
Boston, MA 02108
T: (617) 338-0063
F: (617) 338-6472

- Civil Engineering
- Land Surveying
- Transportation Engineering
- Structural Engineering
- Green Infrastructure
- Planning
- GIS

NITSCH PROJECT No. 13872

PREFERENTIAL PHASING SEQUENCE



APPROACH	PREEMPTION RECEIVER	PREEMPTION PHASE	NEXT PHASE CALLED
NORTHBOUND	1	8	4+8
SOUTHBOUND	2	4	4+8
WESTBOUND	3	1	4+8

1. EMERGENCY VEHICLE PREEMPTION SHALL BE ACTUATED BY AN OPTICAL SIGNAL FROM AN OPTICAL EMITTER MOUNTED ON AN EMERGENCY VEHICLE AND RECEIVED BY AN OPTICAL DETECTOR LOCATED AT THE INTERSECTION. A RECEIVING DETECTOR IS REQUIRED FOR EACH DETECTED APPROACH.
2. PREEMPTION SIGNALS FROM MULTIPLE APPROACHES SHALL BE SERVICED ON A FIRST DETECTED FIRST SERVED BASIS.
3. A SIGNAL FROM A PREEMPTION SIGNAL LOCATED AT AN INTERSECTION BY AN OPTICAL DETECTOR OR CONTROLLER SHALL TIME THE CLEARANCE INTERVALS OF THE ACTIVE PHASE (IF DIFFERENT THAT TO BE SERVICED) AND ADVANCE TO AND/OR HOLD IN EMERGENCY VEHICLE PREEMPTION PHASE UNTIL RECEIVED SIGNAL CANCELS OR THE CLEARANCE INTERVAL TIME CLEARANCES AND SIMILARLY SERVICE OTHER EMERGENCY VEHICLE PREEMPTION SEQUENCES IN THE ORDER RECEIVED (IF RECEIVED) OTHERWISE, RESUME NORMAL PREFERENTIAL PHASE SEQUENCE.
4. PREEMPTION MINIMUM GREENS SHALL BE SIX SECONDS.
5. NORMAL CLEARANCES SHALL BE PROVIDED ON PHASES THAT ARE TERMINATED BY PREEMPTION DEMAND.
6. CLEARANCE FOR THE PREEMPTION PHASE SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FIRE DEPARTMENT AND SHALL BE APPROVED BY MHD PRIOR TO OPERATION.

DETECTION ZONE	CAMERA NUMBER	Ø CALLED	Ø EXT.
1	C2	1	1
2	C2	1	1
3	C3	7	4

Figure 1 shows eight stimuli (A-I) used in the experiment. Each stimulus is a 3x3 grid of circles containing letters R, Y, and G. The stimuli are labeled 'ALL 12° LENS' on the left. Stimuli A, B, E, F, and H are simple 3x3 grids. Stimuli C, D, and I have a thick border around the top two rows. Stimulus G has a thick border around the left two columns. Stimulus I also has a thick border around the right two columns. The letters are arranged as follows: A (R, Y, G; R, Y, G; R, Y, G), B (R, Y, G; R, Y, G; R, Y, G), C (R, Y, G; R, Y, G; R, Y, G), D (R, Y, G; R, Y, G; R, Y, G), E (R, Y, G; R, Y, G; R, Y, G), F (R, Y, G; R, Y, G; R, Y, G), G (R, Y, G; R, Y, G; R, Y, G), H (R, Y, G; R, Y, G; R, Y, G), and I (R, Y, G; R, Y, G; R, Y, G).

1. ALL SIGNALS SHALL HAVE CUT AWAY VISORS.
2. SIGNALS G,H,J,K & L SHALL HAVE 12" LED WITH 5" LOUVERED BACK PLATES

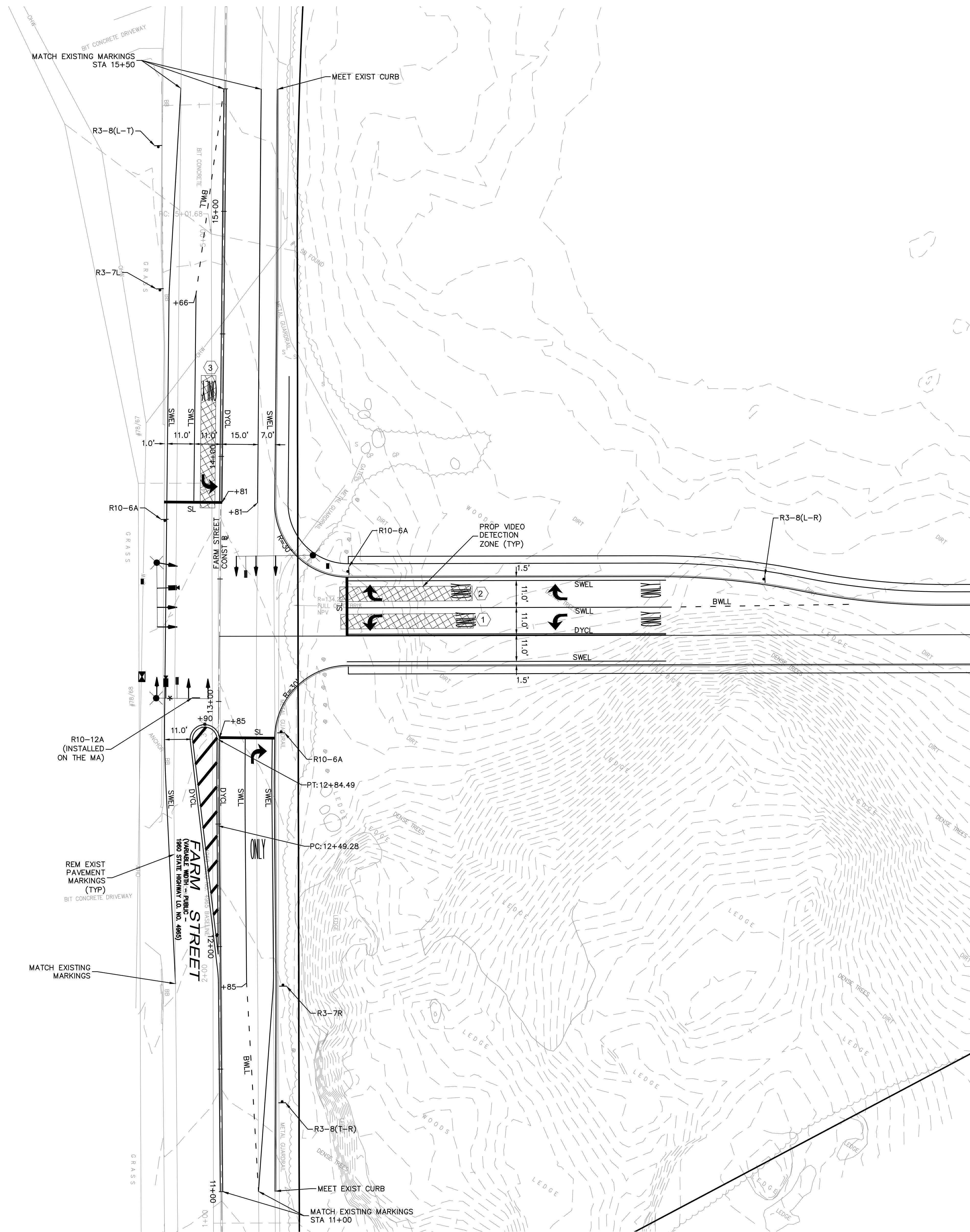
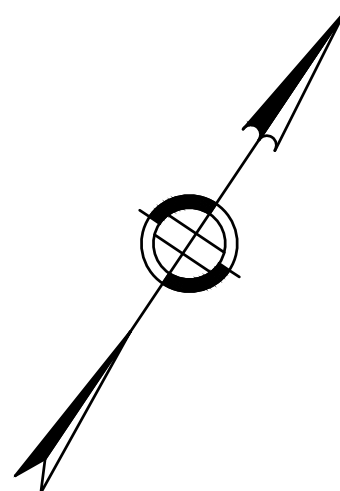
MSBA 60% CD
SUBMISSION

JANUARY 13, 2023

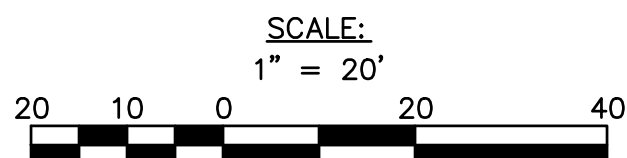
Scale: AS NOTED

Job No.: 13872
Drawn By: WL

TR-101



PAVEMENT MARKINGS SYMBOLS		
EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE STOP LINE
		SOLID WHITE LINE
		DOUBLE YELLOW LINE



DRA

Drumhey Rosane Anderson, Inc.

225 Oakland Road
Studio 205
South Windsor, CT
06074

260 Charles Street
Studio 300
Waltham, MA
02453

Planning | Architecture | Interior Design
Tel: 617.964.1710
www.draas.com

NORTHEAST
METROPOLITAN
REGIONAL
VOCATIONAL
HIGH SCHOOL

100 Hemlock Rd,
Wakefield, MA 01880

Nitsch Engineering

www.nitscheng.com

2 Center Plaza, Suite 430
Boston, MA 02108
T: (617) 338-0063
F: (617) 338-6472

- Civil Engineering
- Land Surveying
- Transportation Engineering
- Structural Engineering
- Green Infrastructure
- Planning
- GIS

NITSCH PROJECT No. 13872

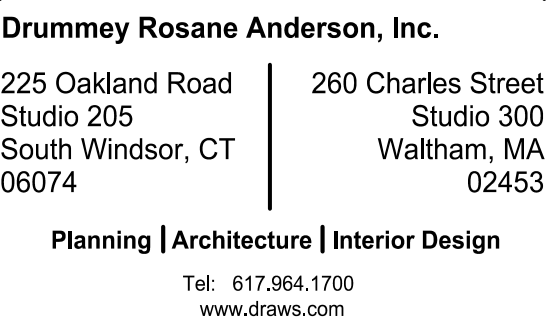
MSBA 60% CD
SUBMISSION

JANUARY 13, 2023

PAVEMENT
MARKING AND
SIGNAGE PLAN

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

TR-200



100 Hemlock Rd,
Wakefield, MA 01880



2 Center Plaza, Suite 430
Boston, MA 02108
T: (617) 338-0063
F: (617) 338-6472

- NITSCH PROJECT No. 13872

© COPYRIGHT 2021 DRUMMEY ROSANE ANDERSON, INC.

JANUARY 13, 2023

TR-201