

PHASING DIAGRAM

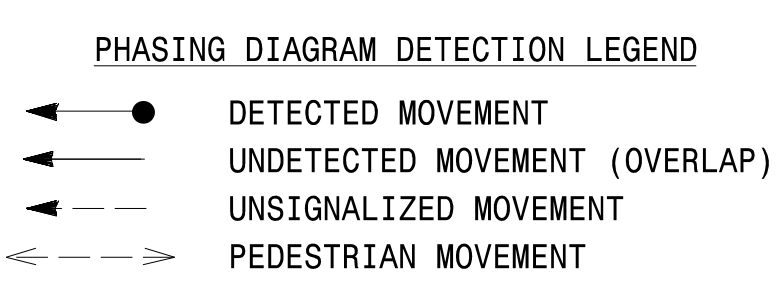
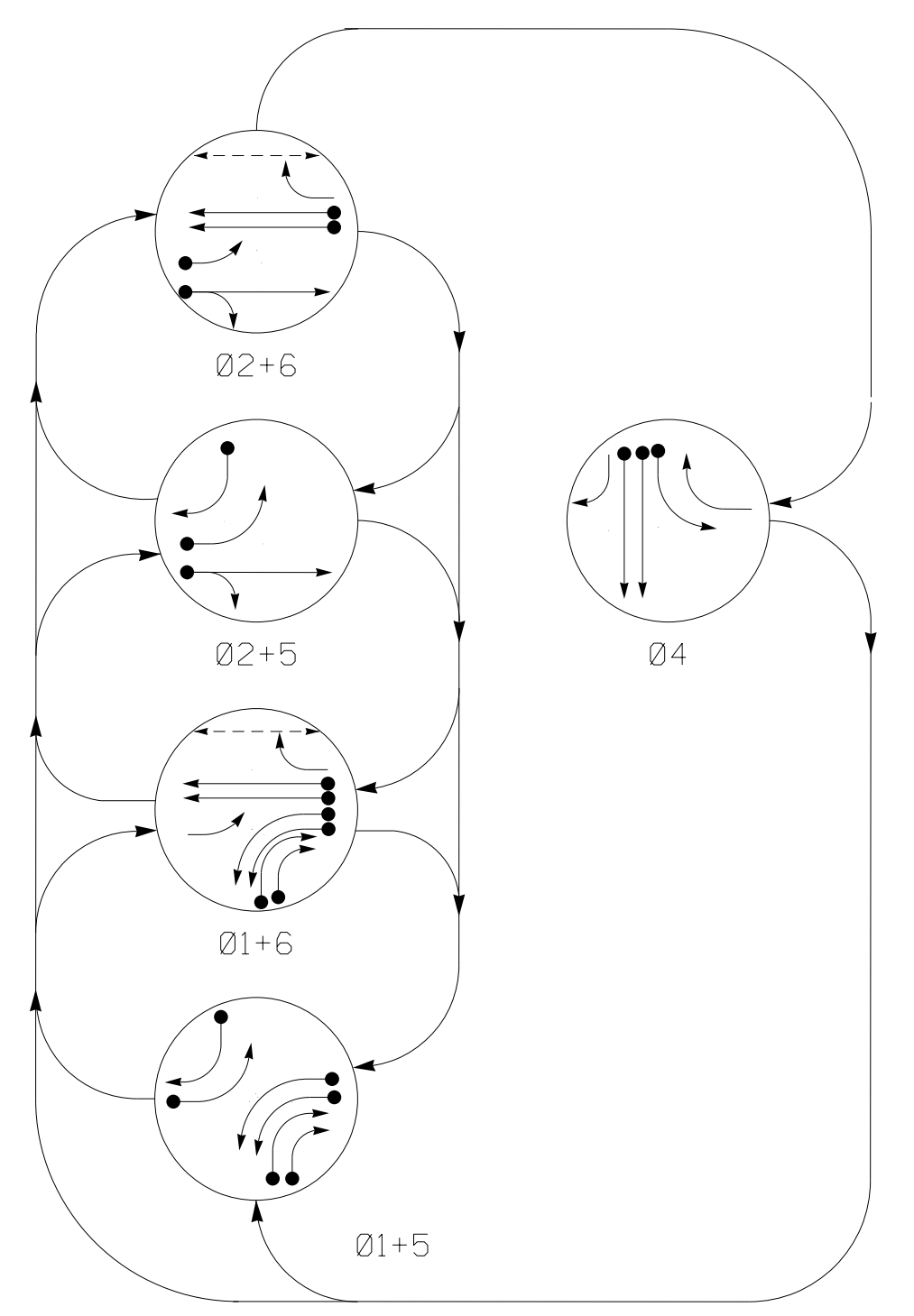
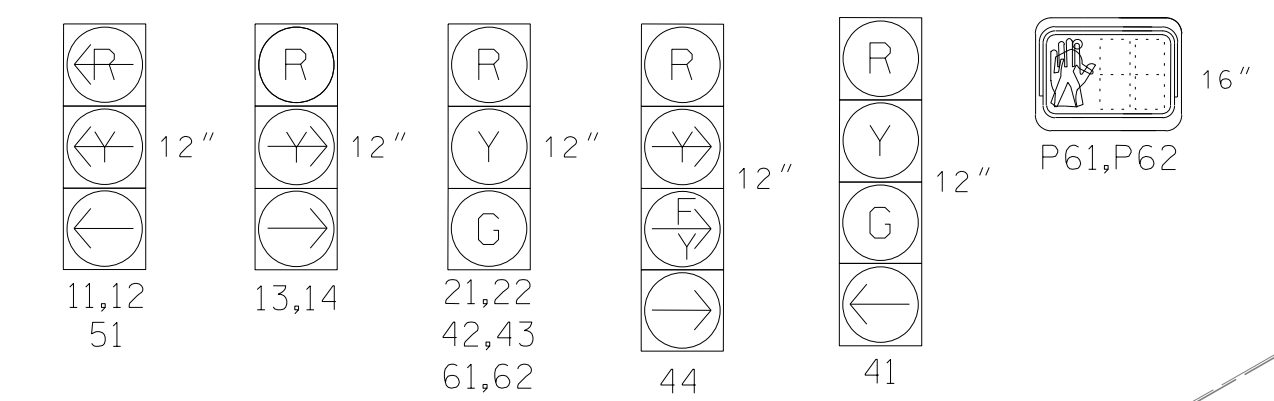


TABLE OF OPERATION

SIGNAL FACE	PHASE					FLASH
	01+5	02+5	02+6	04		
11,12	←	←	←	←	←	
13,14	→	→	→	→	→	
21,22	R	R	G	G	R	Y
41	R	R	R	R	←	R
42,43	R	R	R	R	G	R
44	→	→	→	→	←	R
51	←	←	←	←	←	Y
61,62	R	G	R	G	R	←
63	R	←	R	←	←	←
71	←	←	←	←	←	←

SIGNAL FACE I.D.

All Heads L.E.D.



MAXTIME DETECTOR INSTALLATION CHART

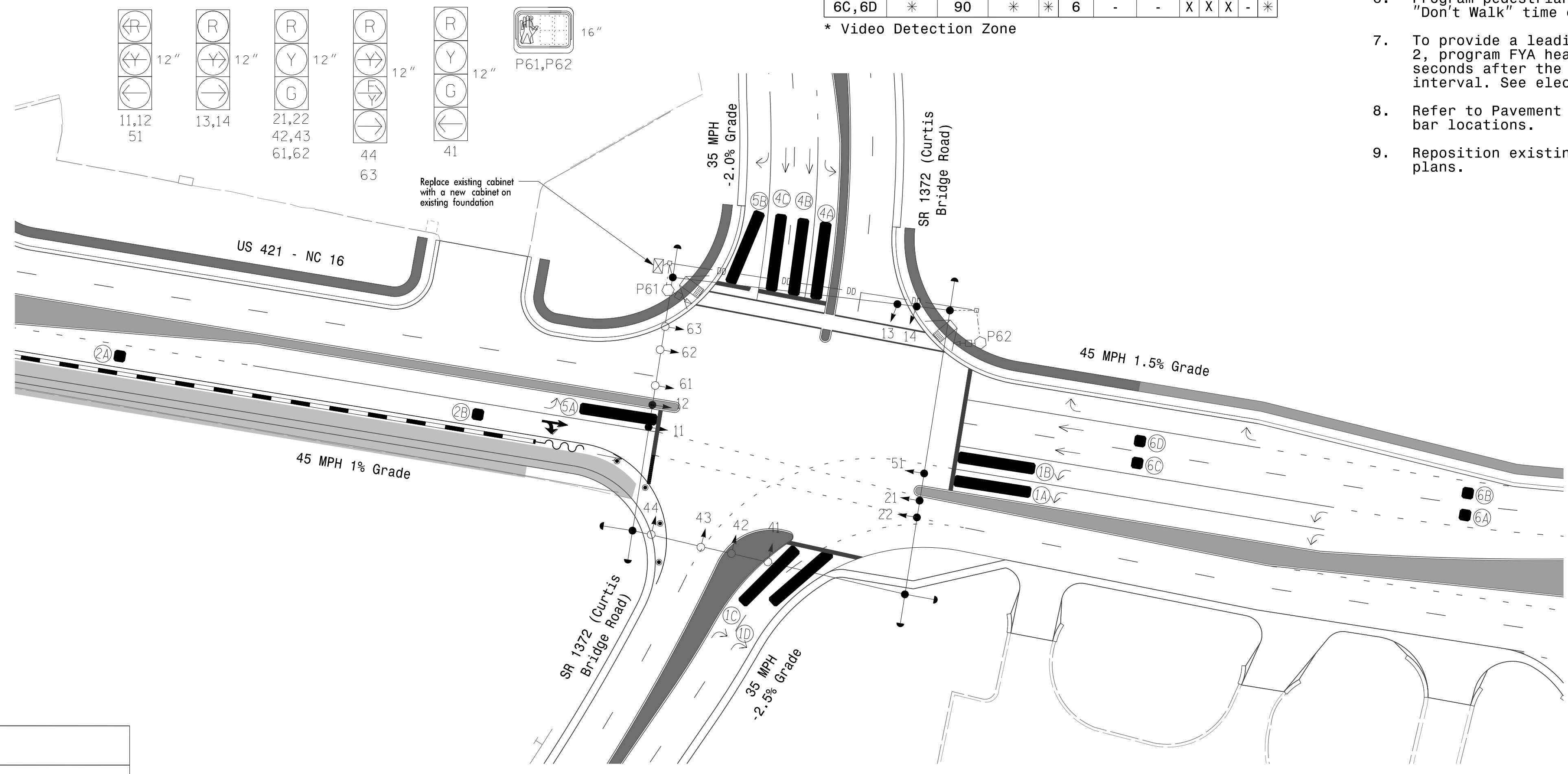
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
1A,1B	*	0	*	*	1	-	-	X	-	X	-	*
1C	*	0	*	*	1	15.0	-	X	-	X	-	*
1D	*	0	*	*	1	15.0	-	X	-	X	-	*
2A	*	300	*	*	2	-	1.6	X	X	X	-	*
2B	*	90	*	*	2	-	-	X	X	X	-	*
4A	*	0	*	*	4	-	-	X	-	X	-	*
4B	*	0	*	*	4	-	-	X	X	X	-	*
4C	*	0	*	*	4	-	-	X	X	X	-	*
5A	*	0	*	*	5	15.0	-	X	-	X	-	*
5B	*	0	*	*	5	15.0	-	X	-	X	-	*
6A,6B	*	300	*	*	6	-	1.6	X	X	X	-	*
6C,6D	*	90	*	*	6	-	-	X	X	X	-	*

* Video Detection Zone

6 Phase Fully Actuated (Isolated)

NOTES

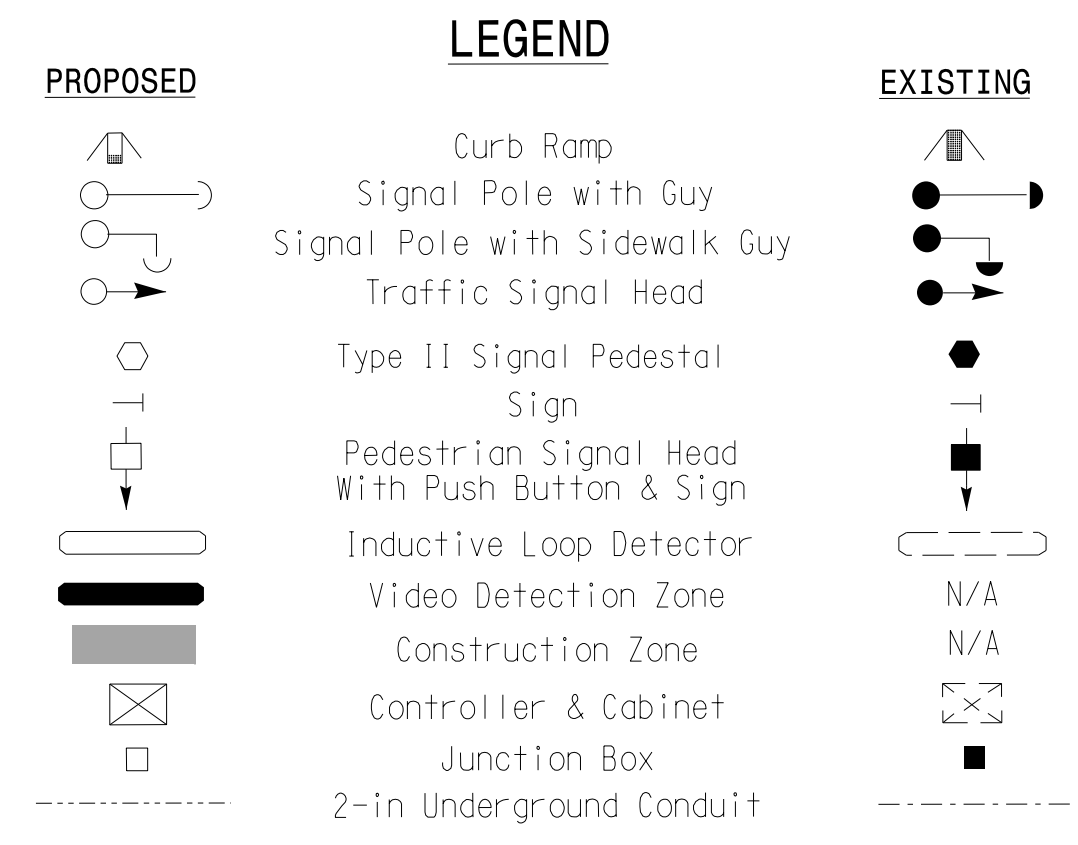
- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night operation unless otherwise directed by the Engineer.
- Set all detector units to presence mode.
- This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Omit "walk" and flashing "Don't Walk" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- To provide a leading pedestrian interval on phase 2, program FYA heads 51 and 22 to delay for 3 seconds after the start of the phase 6 walk interval. See electrical details.
- Refer to Pavement Marking Plans for proposed stop bar locations.
- Reposition existing signal heads as shown on the plans.



MAXTIME TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	
Walk *	-	-	-	-	7	
Ped Clear *	-	-	-	-	32	
Min Green	7	12	7	7	12	
Passage *	2.0	2.0	2.0	2.0	2.0	
Max I *	30	60	30	30	60	
Yellow Change	3.0	4.6	3.8	3.0	4.5	
Red Clear	3.5	1.5	2.4	3.5	1.8	
Added Initial *	-	2.5	-	-	1.5	
Maximum Initial *	-	34	-	-	34	
Time Before Reduction *	-	15	-	-	15	
Time To Reduce *	-	30	-	-	30	
Minimum Gap	-	3.4	-	-	3.4	
Advance Walk	-	-	-	-	**	
Non Lock Detector	X	-	X	X	-	
Vehicle Recall	-	MIN RECALL	-	-	MIN RECALL	
Dual Entry	-	-	-	-	-	

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.
 ** See note 7



Signal Upgrade - Temporary Design 3(Phase 3)

750 N. Greenfield Pkwy, Garner, NC 27529

US 421 Business at Curtis Bridge Road

Division 11 Wilkes County Wilkesboro

PLAN DATE: May 2023 REVIEWED BY: M.L. Stygles

PREPARED BY: S.R. Chiluka REVIEWED BY: J. Ma

SEAL

SEAL 047250

SCALE 0 40
1" = 40'

REVISIONS	INIT.	DATE

DocuSign by S.R. Chiluka 26/2023

SIG. INVENTORY NO. II-0944T3

2/27/2020 2:39:55 PM \\vhb\gbl\proj\Raleigh\38621.03 NCDOT U-5312 Wilkes Co\NCDOT\Traffic\Signals\Design\Signals\90%\Design Plans\U5312_Sig_Border.dgn