

MOVEMENT, SEQUENCE AND TIMING DIAGRAM

PHASE	2+6			4			8			10			FLASHING
INTERVAL	1	2	3	4	5	6	7	8	9	10	11	12	
1,2,3,4,5,6	G	Y	R	R	R	R	R	R	R	R	R	R	Y
7	R	R	R	R	R	R	G	Y	R	R	R	R	R
8	R	R	R	R	R	R	G	Y	R	R	R	R	R
9	R	R	R	G	Y	R	R	R	R	R	R	R	R
10	R	R	R	G	Y	R	R	R	R	R	R	R	R
11,12,13	H	H	H	H	H	H	H	H	H	M*	FH*	H	OFF
14,15,16,17,19	H	H	H	H	H	H	H	H	H	M*	FH*	H	OFF
18	G	Y	R	R	R	R	R	R	R	R	R	R	Y

FIXED	4	4	4	3	4	3	20	3
MINIMUM	3			3				
PASSAGE	3			3				
MAX. 1	24			13				
MAX. 2	30			9				
PEDESTRIAN*							7	
MEMORY	NL			NL			NL	

\* UPON PEDESTRIAN ACTUATION ONLY, OTHERWISE HAND SYMBOL AT ALL TIMES.

EMERGENCY PRE-EMPTION PHASING  
MOVEMENT, SEQUENCE AND TIMING DIAGRAM

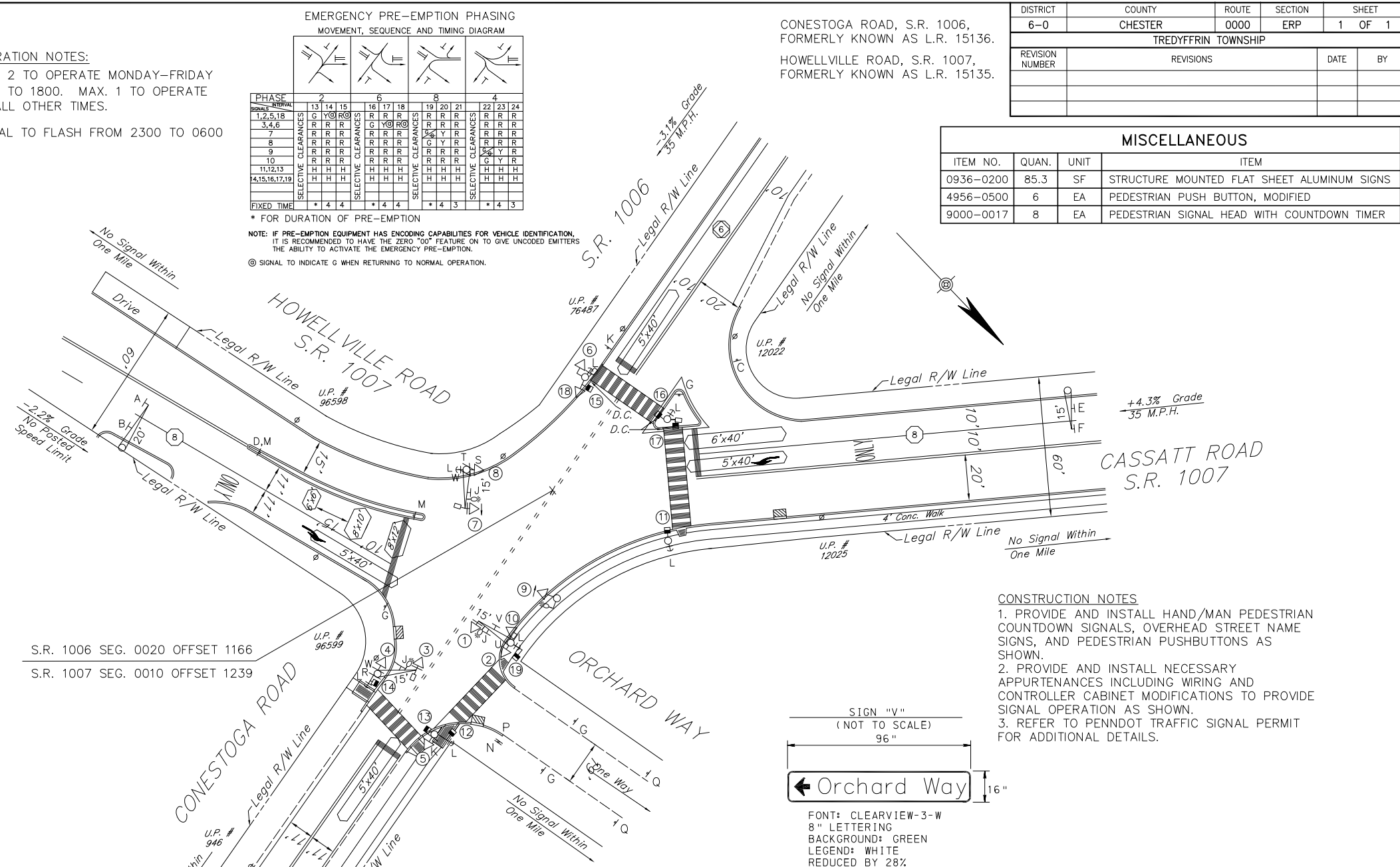
PHASE	7	6	8	4
INTERVAL	13 14 15	16 17 18	19 20 21	22 23 24
1,2,5,18	G Y R	R R R	R R R	R R R
3,4,6	R R R	G Y R	R R R	R R R
7	R R R	R R R	G Y R	R R R
8	R R R	R R R	G Y R	R R R
9	R R R	R R R	G Y R	R R R
10	R R R	R R R	G Y R	R R R
11,12,13	H H H	H H H	H H H	H H H
14,15,16,17,19	H H H	H H H	H H H	H H H
SELECTIVE CLEARANCES				
FIXED TIME	* 4 4	* 4 4	* 4 3	* 4 3

\* FOR DURATION OF PRE-EMPTION  
NOTE: IF PRE-EMPTION EQUIPMENT HAS ENCODING CAPABILITIES FOR VEHICLE IDENTIFICATION, IT IS RECOMMENDED TO HAVE THE ZERO "00" FEATURE ON TO GIVE UNCODED EMITTERS THE ABILITY TO ACTIVATE THE EMERGENCY PRE-EMPTION.  
© SIGNAL TO INDICATE G WHEN RETURNING TO NORMAL OPERATION.

CONESTOGA ROAD, S.R. 1006,  
FORMERLY KNOWN AS L.R. 15136.  
HOWELLVILLE ROAD, S.R. 1007,  
FORMERLY KNOWN AS L.R. 15135.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	CHESTER	0000	ERP	1 OF 1
TREDFYFRIN TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	

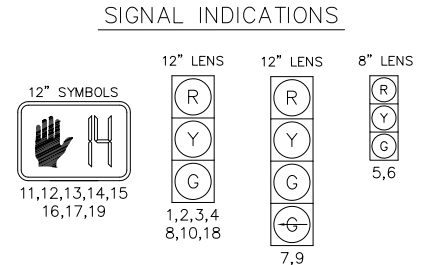
MISCELLANEOUS				
ITEM NO.	QUAN.	UNIT	ITEM	
0936-0200	85.3	SF	STRUCTURE MOUNTED FLAT SHEET ALUMINUM SIGNS	
4956-0500	6	EA	PEDESTRIAN PUSH BUTTON, MODIFIED	
9000-0017	8	EA	PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	



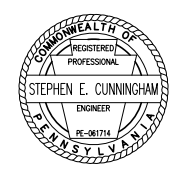
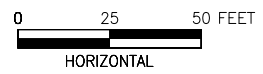
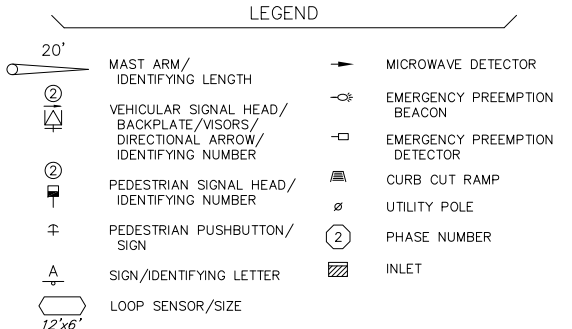
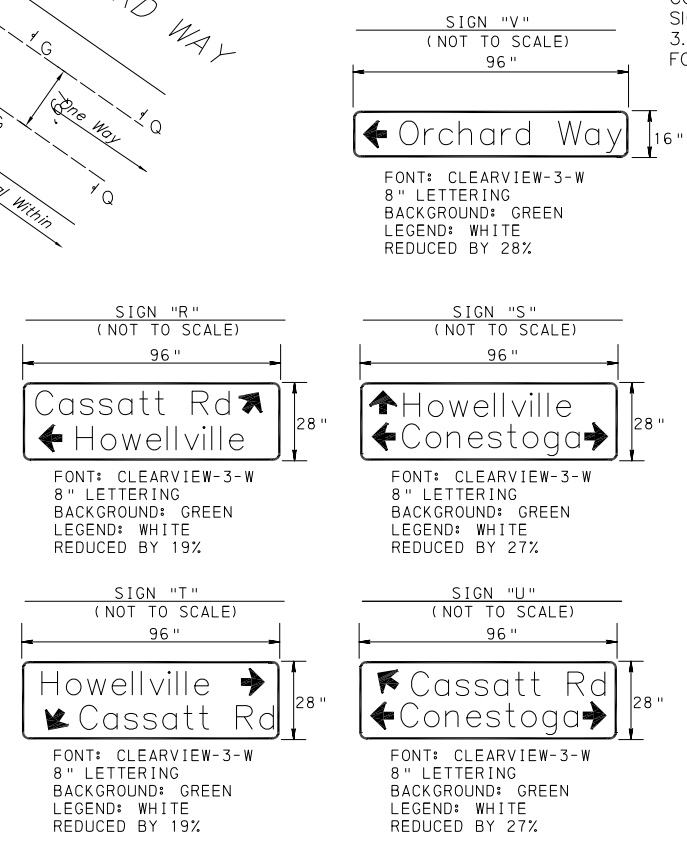
- EMERGENCY PRE-EMPTION NOTES:**
- CONTROLLER TO BE EQUIPPED WITH EMERGENCY PRE-EMPTION FOR THE EASTBOUND & WESTBOUND APPROACHES OF CONESTOGA ROAD (S.R. 1006), AND THE NORTHBOUND APPROACH OF HOWELLVILLE ROAD (S.R. 1007) & THE SOUTHBOUND APPROACH OF CASSATT ROAD (S.R. 1007), WITH A FLASHING FAIL SAFE DEVICE FOR EACH DIRECTION OF OPERATION. THIS FAIL SAFE DEVICE SHALL CONSIST OF A FLASHING WHITE FLOOD LIGHT, AND SHALL BEGIN FLASHING WHEN THE PRE-EMPTION PHASE DISPLAYS PRE-EMPTION GREEN FOR THE EMERGENCY VEHICLE APPROACH.
  - THE SIGNALS, WHEN ACTIVATED BY AN EMERGENCY VEHICLE, SHALL TERMINATE ALL GREEN INDICATIONS EXCEPT THE GREEN INDICATIONS FOR THE PHASE GOVERNED BY THE APPROACHING EMERGENCY VEHICLE, FOLLOWED BY SELECTIVE CLEARANCES DEPENDENT UPON THE PHASE IN WHICH THE PRE-EMPTION OCCURS. THE GREEN INDICATIONS FOR THE PRE-EMPTED PHASE SHALL REMAIN GREEN FOR THE DURATION OF SIGNAL PRE-EMPTION WITH RED INDICATIONS DISPLAYED FOR ALL OTHER PHASES.
  - THE SIGNALS, WHEN ACTIVATED BY AN EMERGENCY VEHICLE, SHALL TIME OUT ALL YELLOW AND RED INDICATIONS FOLLOWED BY THE GREEN INTERVAL OF THE PRE-EMPTION PHASE GOVERNED BY THE ACTUATION OF THE APPROACHING EMERGENCY VEHICLE.
  - IF THE SIGNALS ARE FLASHING WHEN ACTIVATED BY AN EMERGENCY VEHICLE ALL SIGNALS SHALL REMAIN FLASHING.
  - UPON COMPLETION OF PRE-EMPTION PHASE 2, 4, 6 OR 8, IN RETURNING TO NORMAL OPERATION PHASE 2+6 INTERVAL 1 SHALL FOLLOW.
  - IF ADDITIONAL PRE-EMPTION PHASES ARE ACTIVATED WHILE IN PRE-EMPTION, THE ORIGINAL PRE-EMPTION PHASE SHALL TIME OUT BEFORE PROCEEDING TO THE NEXT PRE-EMPTION PHASE.
  - IN EMERGENCY PRE-EMPTION, NO PRIORITY SHALL BE ESTABLISHED, PRE-EMPTION SHALL BE A "FIRST COME, FIRST SERVED" OPERATION.
  - THE FIELD LOCATIONS OF THE PREEMPTION DETECTORS MAY DIFFER FROM THE LOCATIONS DEPICTED ON THE CONDITION DIAGRAM, AS THE DETECTORS MAY NEED TO BE RELOCATED AND/OR ADJUSTED TO PROVIDE ACCEPTABLE OPERATION AS DEEMED APPROPRIATE BY DEPARTMENT PERSONNEL.
  - IF THE SIGNAL HAS BEEN ACTUATED BY A PEDESTRIAN PUSH BUTTON AND THE SIGNAL IS PRE-EMPTED DURING THE "WALK" PHASE, THE "WALK" PHASE SHALL TERMINATE IMMEDIATELY, FOLLOWED BY THE FLASHING "DON'T WALK" INDICATION IN ITS ENTIRETY, FOLLOWED BY THE APPROPRIATE SELECTIVE YELLOW AND RED CLEARANCE INTERVALS BEFORE PROCEEDING TO THE PRE-EMPTION PHASE. IF THE SIGNAL IS PRE-EMPTED DURING THE FLASHING "DON'T WALK" INDICATION, THE INTERVAL SHALL TIME OUT IN ITS ENTIRETY FOLLOWED BY THE APPROPRIATE SELECTIVE YELLOW AND RED CLEARANCE INTERVALS BEFORE PROCEEDING TO THE PRE-EMPTION PHASE.

- CONSTRUCTION NOTES**
- PROVIDE AND INSTALL HAND/MAN PEDESTRIAN COUNTDOWN SIGNALS, OVERHEAD STREET NAME SIGNS, AND PEDESTRIAN PUSHBUTTONS AS SHOWN.
  - PROVIDE AND INSTALL NECESSARY APPURTENANCES INCLUDING WIRING AND CONTROLLER CABINET MODIFICATIONS TO PROVIDE SIGNAL OPERATION AS SHOWN.
  - REFER TO PENNDOT TRAFFIC SIGNAL PERMIT FOR ADDITIONAL DETAILS.

PLAN SYMBOL	SERIES NUMBER	SIZE	REMARKS
A	R3-6LS	30"x36"	OPTIONAL LEFT TURN
B	R3-5R	30"x36"	RIGHT TURN
C	R1-2	48"x48"	YIELD
D	R4-7	24"x30"	KEEP RIGHT
E	R3-6SR	30"x36"	OPTIONAL RIGHT TURN
F	R3-5L	30"x36"	LEFT TURN
G	R5-1	24"x24"	DO NOT ENTER
J	R10-11	24"x30"	NO TURN ON RED 7 A.M.-6 P.M.
K	R10-6L	24"x30"	STOP HERE ON RED
L	R10-3E	9"x12"	PUSH BUTTON SIGN(COUNTDOWN)
M	W16-1	18"x18"	HAZARD MARKER
N	R6-1R	36"x12"	HORIZONTAL RIGHT ONE WAY
P	R6-1L	36"x12"	HORIZONTAL LEFT ONE WAY
Q	R5-9	36"x24"	WRONG WAY
R	D3-5	96"x28"	Cassatt Rd Howellville
S	D3-5	96"x28"	Howellville Cassatt Rd
T	D3-5	96"x28"	Howellville Cassatt Rd
U	D3-5	96"x28"	Cassatt Rd Conestoga
V	D3-4	96"x16"	Orchard Way
W	R9-3	18"x18"	NO PEDESTRIAN CROSSING



SIGNALS TO BE EQUIPPED WITH TUNNEL VISORS \_\_\_\_\_  
SIGNALS TO BE EQUIPPED WITH TUNNEL VISORS and LOUVERS \_\_\_\_\_



1. 7:00 AM to 8:00 AM	48	157	8	12
2. 8:00 AM to 9:00 AM	48	157	8	12
3. 9:00 AM to 10:00 AM	48	157	8	12
4. 10:00 AM to 11:00 AM	48	157	8	12
5. 11:00 AM to 12:00 PM	48	157	8	12
6. 12:00 PM to 1:00 PM	48	157	8	12
7. 1:00 PM to 2:00 PM	48	157	8	12
8. 2:00 PM to 3:00 PM	48	157	8	12
9. 3:00 PM to 4:00 PM	48	157	8	12
10. 4:00 PM to 5:00 PM	48	157	8	12
11. 5:00 PM to 6:00 PM	48	157	8	12
12. 6:00 PM to 7:00 PM	48	157	8	12
Totals	576	1884	96	144

**CASSATT ROAD S.R. 1007**

**HOWELLVILLE ROAD S.R. 1007**

**CONESTOGA ROAD**

DATE OF COUNT 01/02/01

**EMERGENCY PRE-EMPTION PHASING**

**MOVEMENT, SEQUENCE AND TIMING DIAGRAM**

PHASE	1	2	3	4	5	6	7	8	9	10	11	12
1,2,3,4,5,6	G	Y	R	R	R	R	R	R	R	R	R	R
7	R	R	R	R	R	R	Y	R	R	R	R	R
8	R	R	R	R	R	R	G	Y	R	R	R	R
9	R	R	R	R	R	R	R	R	Y	R	R	R
10	R	R	R	R	R	R	R	R	R	Y	R	R
11,12,13,14,15	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
16,17,18,19	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
20	G	Y	R	R	R	R	R	R	R	R	R	R

\* FOR DURATION OF PRE-EMPTION

NOTE: IF PRE-EMPTION EQUIPMENT HAS ENCODING CAPABILITIES FOR VEHICLE IDENTIFICATION, IT IS RECOMMENDED TO HAVE THE ZERO "00" FEATURE ON TO GIVE UNCODED EMITTERS THE ABILITY TO ACTIVATE THE EMERGENCY PRE-EMPTION.

② SIGNAL TO INDICATE G WHEN RETURNING TO NORMAL OPERATION.

**SIGN TABULATION**

PLAN SYMBOL	SERIES NUMBER	SIZE	REMARKS
A	R3-6LS	30"x36"	OPTIONAL LEFT TURN
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N	R6-1R	36"x12"	HORIZONTAL RIGHT ONE WAY
P	R6-1L	36"x12"	HORIZONTAL LEFT ONE WAY
Q	R5-9	36"x24"	WRONG WAY

**GENERAL NOTES**

NO MODIFICATIONS OF THIS INSTALLATION ARE PERMITTED UNLESS PRIOR APPROVAL IS GRANTED IN WRITING BY A REPRESENTATIVE OF THE DEPARTMENT OF TRANSPORTATION.

ALL MAINTENANCE WORK INCLUDING TRIMMING OF TREES, NECESSARY FOR PROPER VISIBILITY OF THE SIGNALS IS THE RESPONSIBILITY OF THE PERMITTEE.

ALL SIGNS AND PAVEMENT MARKINGS INDICATED ON THIS DRAWING ARE CONSIDERED PART OF THE PERMIT AND SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH PUBLICATION NO. 68.

POST MOUNTED SIGNALS SHALL BE INSTALLED WITH THE SIGNAL HEADS A MINIMUM OF 2 FEET BEHIND THE FACE OF CURB OR THE EDGE OF THE SHOULDER. SUPPORT POLES FOR OVERHEAD SIGNALS SHALL ALSO HAVE A MINIMUM CLEARANCE HORIZONTALLY OF 2 FEET.

SIGNALS ERECTED OVER THE ROADWAY SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 16 FT. ABOVE THE ROADWAY. POST MOUNTED SIGNALS SHALL BE A MINIMUM OF 8 FT. ABOVE THE SIDEWALK OR PAVEMENT.

ALL OVERHEAD SIGNALS MUST BE RIGIDLY MOUNTED, TOP AND BOTTOM, AND EQUIPPED WITH BACKPLATES.

THE MINIMUM HORIZONTAL DISTANCE BETWEEN SIGNALS MEASURED AT RIGHT ANGLES TO THE APPROACH SHALL BE 8 FEET.

EXACT LOCATION OF DETECTORS SHALL BE DETERMINED PRIOR TO INSTALLATION BY A REPRESENTATIVE OF PENNDOT.

CURBING TO BE INSTALLED BY MUNICIPALITY AND WHERE NOTED, SHALL BE PLAIN CEMENT CONCRETE CURB OR GRANITE CURB, INSTALLED IN ACCORDANCE WITH DEPARTMENT SPECIFICATIONS.

PRIOR TO INSTALLATION THE CONTRACTOR SHALL CONSULT WITH THE LOCAL OFFICIALS AND UTILITY COMPANIES TO RESOLVE ANY PROBLEMS WHICH MAY BE CREATED DUE TO THE LOCATION OF

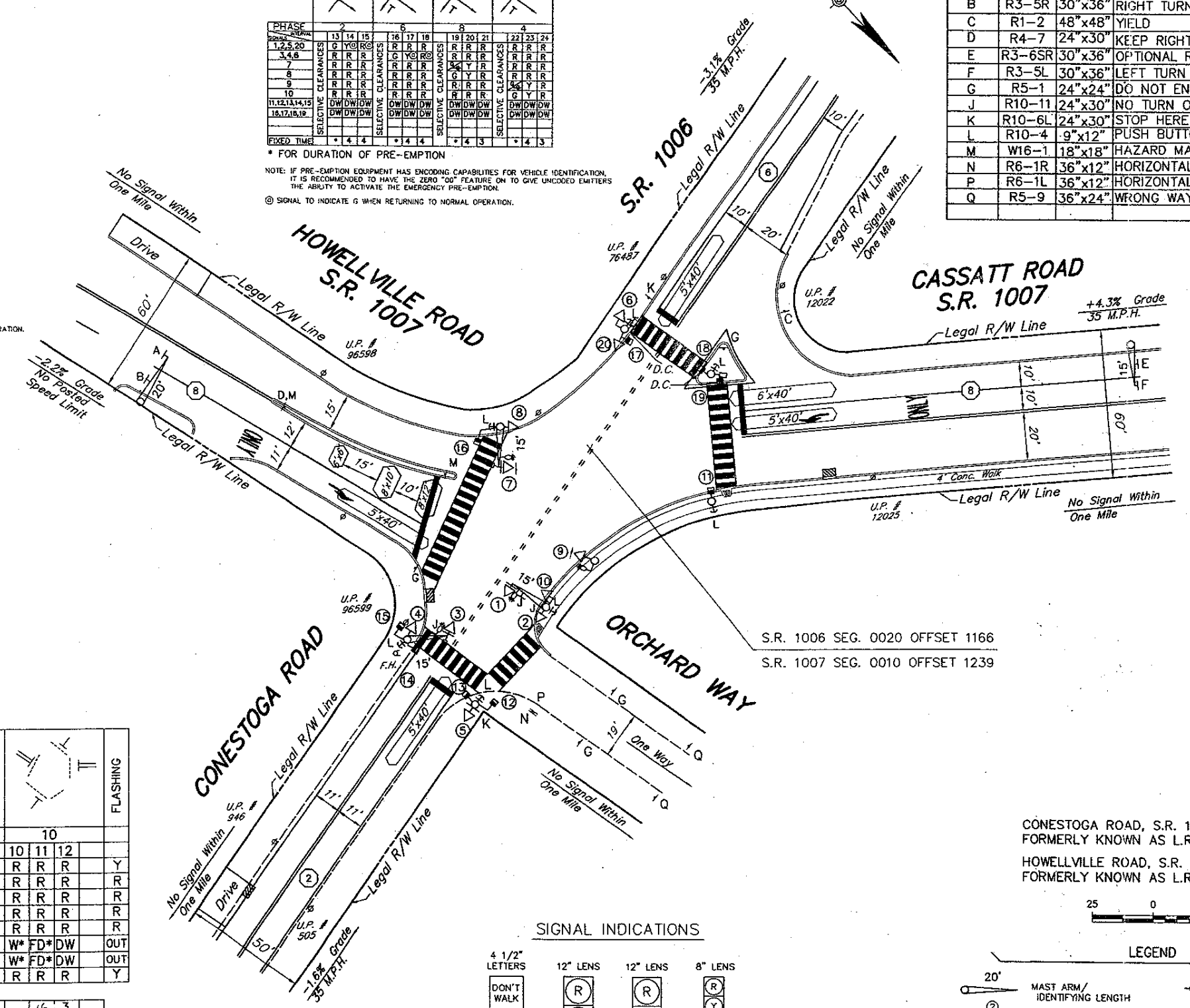
THIS DRAWING CANNOT BE USED AS A CONSTRUCTION DRAWING UNLESS THE PERMITTEE COMPLIES WITH THE PROVISIONS OF ACT 187, PREVENTION OF DAMAGE TO UNDERGROUND UTILITIES, EFFECTIVE DATE DECEMBER 19, 1996.

WHEN LIQUID FUELS MONEY IS USED, SIGNAL INSTALLATION MUST CONFORM TO FORM 408 AND A COPY OF THE PROPOSED SPECIFICATIONS MUST BE SUBMITTED TO THE DISTRICT TRAFFIC UNIT, FOR REVIEW, PRIOR TO BIDDING.

PERMITTEE SHALL OBTAIN A HIGHWAY OCCUPANCY PERMIT FOR ANY CHANGES IN INTERSECTION GEOMETRY REGARDING EXCAVATION.

CONDUIT INSTALLED IN BITUMINOUS ROADWAY LESS THAN 5 YEAR OLD, OR CONCRETE ROADWAY REGARDLESS OF AGE, MUST BE BORED OR JACKED UNDER THE ROADWAY. INSTALL IN ACCORDANCE WITH TRAFFIC SIGNAL STANDARDS TC-7800 SERIES.

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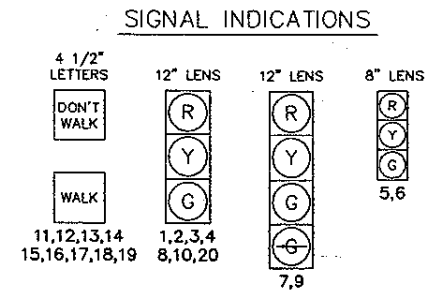
**MOVEMENT, SEQUENCE AND TIMING DIAGRAM**

PHASE	2+6	4	8	10	FLASHING
1,2,3,4,5,6	G Y R	R R R	R R R	R R R	Y
7	R R R	R R R	Y R	R R R	R
8	R R R	R R R	G Y R	R R R	R
9	R R R	Y R	R R R	R R R	R
10	R R R	R R R	G Y R	R R R	R
11,12,13,14,15	DW DW DW	DW DW DW	DW DW DW	W* FD* DW	OUT
16,17,18,19	DW DW DW	DW DW DW	DW DW DW	W* FD* DW	OUT
20	G Y R	R R R	R R R	R R R	Y

FIXED	4	4	4	3	4	3	16	3
MINIMUM	3	3	3	3	3	3		
PASSAGE	3	3	3	3	3	3		
MAX. 1	33	14	14	14	14	14		
MAX. 2	46	10	10	13	13	13		
PEDESTRIAN*							7	
MEMORY	NL	NL	NL	NL	NL	NL		

\* UPON PEDESTRIAN ACTUATION ONLY, OTHERWISE DW AT ALL TIMES.

- OPERATION NOTES:**
- MAX. 2 TO OPERATE MONDAY-FRIDAY 1500 TO 1700. MAX. 1 TO OPERATE AT ALL OTHER TIMES.
  - SIGNAL TO FLASH FROM 2300 TO 0600

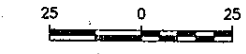


SIGNALS TO BE EQUIPPED WITH TUNNEL VISORS

SIGNALS TO BE EQUIPPED WITH TUNNEL VISORS and LOUVERS

CONESTOGA ROAD, S.R. 1006, FORMERLY KNOWN AS L.R. 15136.

HOWELLVILLE ROAD, S.R. 1007, FORMERLY KNOWN AS L.R. 15135.



- LEGEND**
- 20' MAST ARM/IDENTIFYING LENGTH
  - VEHICULAR SIGNAL HEAD/BACKPLATE/VISORS/DIRECTIONAL ARROW/IDENTIFYING NUMBER
  - PEDESTRIAN SIGNAL HEAD/IDENTIFYING NUMBER
  - PEDESTRIAN PUSHBUTTON/SIGN
  - SIGN/IDENTIFYING LETTER
  - LOOP SENSOR/SIZE
  - MICROWAVE DETECTOR
  - EMERGENCY PREEMPTION BEACON
  - EMERGENCY PREEMPTION DETECTOR
  - CURB CUT RAMP
  - UTILITY POLE
  - PHASE NUMBER
  - INLET

**PENNSYLVANIA DEPARTMENT OF TRANSPORTATION**

**ENGINEERING DISTRICT 6-0**

COUNTY: CHESTER

MUNICIPALITY: TREDYFFRIN TOWNSHIP

INTERSECTION: CONESTOGA ROAD (S.R. 1006) AND HOWELLVILLE ROAD/CASSATT ROAD (S.R. 1007) AND ORCHARD WAY

REVIEWED: \_\_\_\_\_ DATE \_\_\_\_\_

MUNICIPAL OFFICIAL \_\_\_\_\_ DATE \_\_\_\_\_

RECOMMENDED: **Mark L. Kray** 10/31/94 DATE

**Douglas May** 10/31/94 DATE

DISTRICT TRAFFIC ENGINEER

NO.	REVISION	DES./REVW.	DATE	REVW.	DATE	RECD.	D.
1	New Drawing, Added Pre-emption	PML	10/31/94	MK	10/31/94	DWM	10/C
2	Added Flashing Mode	JUL	02/07/95	MK	02/07/95	DWM	02/A
3	Split Phasing	PAI	12/17/01	MK	12/17/01	DWM	12/B
4	Rem. Sign J. on SW Corner	SHG	9/3/02	MK	9/3/02	DWM	9/3
5	Temporary Timings	SHG	4/1/03	MK	4/1/03	DWM	4/1
6							
7							
8							