



Appendix A

Intersection Field Inventory Data

Contents:

- Study Area Map
- Controller Cabinet Summaries
- Intersection Phasing Summaries
- Existing Signal Permit Plans
- Existing Timing Verification
- Photo Log Inventory of each Intersection



Exhibit 1: Controller Cabinet Inventories

Intersection	Operating Mode	NEMA Controller Make	Vehicle Detection
98 – SR 19 & Old Rt 19 / Victory Dr	Actd uncoord	Econolite ASC/3-1000	Inductive Loops
99 – SR 19 & Ehrman Rd	Actd uncoord	Econolite ASC/3-1000	Wavetronix Radar & Video Detection
100 – SR 19 & North Boundary Rd / Glen Eden Rd	Actd uncoord	Econolite ASC/3-1000	Inductive Loops
105 – SR 19 & Rowan Rd / Ogle View Rd	Actd coordinated	Econolite ASC/3-1000	Inductive Loops
110 – SR 19 & Rochester Rd / Wisconsin Ave	Actd coordinated	Econolite ASC/3-1000	Video Detection
115 – SR 19 & American Way	Actd coordinated	Econolite ASC/3-1000	Inductive Loops
120 – SR 19 & Dutilh Rd / Brandt Rd	Actd coordinated	Econolite ASC/3-1000	Inductive Loops
125 – SR 19 & Cranberry Sq Dr / Hartners Dr	Actd coordinated	Econolite ASC/3-1000	Inductive Loops & Video Detection
130 – SR 19 & Walmart Dr / Short St	Actd coordinated	Econolite ASC/3-1000	Inductive Loops
135 – SR 19 & SR 228 / Freedom Rd	Actd coordinated	Econolite ASC/3-1000	SmartMicro Radar
140 – SR 19 & Francis Way / Cranberry Mall	Actd coordinated	Econolite ASC/3-1000	Inductive Loops & Wavetronix Radar
145 – SR 19 & I-76 Turnpike Connector Ramps	Actd coordinated	Econolite ASC/3-1000	Inductive Loops
150 – SR 19 & Freeport Rd / Emeryville Rd	Actd coordinated	Econolite ASC/3-1000	Inductive Loops
155 – SR 19 & Brush Creek Rd	Actd coordinated	Econolite ASC/3-1000	Inductive Loops
500 – Commonwealth Dr & Brush Creek Rd	Actd uncoord	Econolite ASC/3-1000	Wavetronix Radar
300 – Freedom Rd & Powell Rd	Actd coordinated	Econolite ASC/3-1000	Wavetronix Radar
305 – Freedom Rd & Valley Forge / Parkwood Dr	Actd coordinated	Econolite ASC/3-1000	Wavetronix Radar

Intersection	Operating Mode	NEMA Controller Make	Vehicle Detection
310 – Freedom Rd & Laporte / Haine School Rd	Actd coordinated	Econolite ASC/3-1000	Inductive Loops
315 – Freedom Rd & Thorn Hill Rd	Actd coordinated	Econolite ASC/3-1000	Wavetronix Radar & Video Detection
320 – Freedom Rd & Haldeman Dr	Actd coordinated	Econolite ASC/3-1000	Wavetronix Radar & Video Detection
325 – Freedom Rd & Commonwealth Dr / McIntyre Rd	Actd coordinated	Econolite ASC/3-1000	Wavetronix Radar & Video Detection
330 – Freedom Rd & Executive Dr / Cranberry Mall	Actd coordinated	Econolite ASC/3-1000	Wavetronix Radar & Video Detection
335 – Freedom Rd & Cranberry Mall / Sheetz Dwy	Actd coordinated	Econolite ASC/3-1000	Wavetronix Radar & Inductive Loops
340 – Freedom Rd & Connector St	Actd coordinated	Econolite ASC/3-1000	SmartMicro Radar
200 – SR 228 & I-79 SB Ramps	Actd coordinated	Econolite ASC/3-1000	Wavetronix Radar & Video Detection
205 – SR 228 & I-79 NB Ramps	Actd coordinated	Econolite ASC/3-1000	Wavetronix Radar & Video Detection
210 – SR 228 & Cranberry Woods Dr / Cranberry Springs Dr	Actd coordinated	Econolite ASC/3-1000	Wavetronix Radar
215 – SR 228 & Cranberry Commons Dr	Actd coordinated	Econolite ASC/3-1000	Inductive Loops & Video Detection
220 – SR 228 & Kristoffer Dr / Cranberry Woods Dr	Actd coordinated	Econolite ASC/3-1000	Inductive Loops
225 – SR 228 & Franklin Rd	Actd coordinated	Econolite ASC/3-1000	Wavetronix Radar
230 – SR 228 & High Point Dr / Castle Creek Dr West	Actd coordinated	Econolite ASC/2-1000	Inductive Loops
235 – SR 228 & High Point Dr / Castle Creek Dr East	Actd coordinated	Econolite ASC/2-1000	Inductive Loops
240 – SR 228 & Seven Fields Blvd	Actd coordinated	Econolite ASC/2-1000	Inductive Loops
245 – SR 228 & Adams Ridge Blvd	Actd coordinated	Econolite ASC/3-1000	Inductive Loops
250 – SR 228 & Myoma Rd (Proposed Signal)	Unsignalized	Econolite Cobalt	Wavetronix Radar & Video Detection
255 – SR 228 & Heritage Creek Dr	Actd coordinated	Econolite ASC/2-1000	Inductive Loops & Video Detection



*THIS IS NOT THE MOST UP-TO-DATE PERMIT PLAN.

☐ SIGNAL SUPPORT ☐ SIGNAL HEAD
☐ JUNCTION BOX ☐ DETECTOR
☐ PEDESTRIAN PUSH BUTTON
 5C/14 NO CONDUCTORS/SIZE AWG

[illegible]

QUILER
Municipality

CRANBERRY TOWNSHIP
Instructional

LA PORTE DRIFT, HAINE SCHOOL ROAD (T-309) W
FREEDOM ROAD (SR 3020) (W-10000)

Recommended: John Hall 5/13/08
DISTRICT TRAFFIC ENGINEER DATE

[illegible]

CLASS	NAME	DATE	REMARKS
1	...	...	...
1	...	...	...
2	...	...	...

SIGN	SERIES	SIZE	LEGEND OF DESCRIPTION
A	R10-3	9'x12'	WIND BELL FOR STATION LIGHT
B	R10-3	9'x12'	STATION LIGHT
C	R13-7L	3'x3' 30"	STATION LIGHT FOR TURN LEFT
TURN RIGHT			
D			LEFT TURN ARROW
E			ONLY LEGEND
F			STOP BAR

W. 1916 Series

DETAIL 1/4" = 1' LEGEND IN PART 30' = 1' 30" x 1' 1/2" LEGEND IN PART 30' = 1' 30" x 1' 1/2"

NOTE: LOOPS 3 THROUGH 8 SHALL INCLUDE
ANAL PURPOSE-DUAL FUNCTION LOOP
AMPLIFIERS FOR FUTURE IMPROVEMENTS.



MEMORY INCLUDES

- MIN - MINIMUM RECALL
- MAX - MAXIMUM RECALL
- PPR - PEDESTRIAN RECALL
- L - LOCKING
- NI - NON LOCKING

◆ UPON PEDESTRIAN ACTIVATION, OTHERWISE "DON'T WALK" AT ALL TIMES

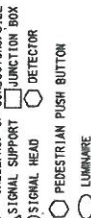
THE CONTROLLER SHALL BE EQUIPPED WITH SIREN ACTIVATED EMERGENCY VEHICLE EQUIPMENT.

EMERGENCY PREDETECTION MAY OCCUR DURING ANY INTERVAL OF TRAVEL OF THE EMERGENCY VEHICLE ON ONE OF THE FOUR PHASES SHALL BE DISPLAYED ON PHASES 14, 2, 5, 4 OR 8. THE SYSTEM SHALL PROVIDE SERVICE ON A FIRST-COME, FIRST-SERVE BASIS. ONCE A VEHICLE IS SERVED, THE CONTROLLER SHALL INITIATE THE FIRST OTHER PREDETECTIVE VEHICLES FROM INTERVALL CALLS. THE FIRST OTHER VEHICLE RELEASES RELEASES CONTROLS AND CALLS THE INTERSECTION.

IF THE CONTROLLER OPERATION IS IN INTERVAL 1 OF A PREDETECTION PHASE, THE CONTROLLER SHALL TERMINATE THOSE VEHICLES IMMEDIATELY AND PROCEED NORMALLY THROUGH THE YELLOW AND ALL RED INTERVALS BEFORE PROCEEDING TO THE PREDETECTION PHASE. UPON ACTIVATION IN AN INTERVAL OF THE PREDETECTION PHASE, THE CONTROLLER SHALL REMAIN IN THAT INTERVAL UNTIL THE NEXT INTERSECTION IS SERVED. IMMEDIATELY FOLLOWED BY A NORMAL FLASHING DON'T WALK INDICATION BEFORE PROCEEDING TO THE EMERGENCY PREDETECTION ROUTINE IN



55C/14 - CABLE (NO. OF CONDUCTORS/SIZE AWG.)



DISCONNECT

NOTE: PROVIDE TWO 20 AMP CIRCUIT BREAKERS FOR LUMINARIES LOCATED DOWNSTREAM AND SEPARATE FROM MAIN POWER DISCONNECT.

*** - EVP DETECTORS AND FAIL SAFE LIGHTS TO BE WIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

REVISION NUMBER	REVISIONS	DATE	BY	SHEET
1	REVISED COORD TIMINGS	2/27/2012	NRS	4 OF 4
2	REVISED COORD TIMINGS	1/7/2015	TAP	4 OF 4

SPC REPORT # - INT 310 - FREEDOM RD AT HAINE SCHOOL RD & LAPORTE DR
CENTRACS HIERARCHY # - INT 28 - FREEDOM RD AT HAINE SCHOOL RD & LAPORTE DR

COORDINATION CHART																				
EVENT NO.	TIME	PLAN	DAY OF WEEK							CYCLE	OFFSET	SPLIT								REMARKS
			M	T	W	T	F	S	S			φ1	φ2		φ4	φ5	φ6		φ8	
1	00:00	100										FREE								MAX 1
2	05:00	5								75	12	12	38		25	12	38		25	
3	06:30	75								145	24	12	85		48	12	85		48	
4	08:45	50								120	54	15	71		34	15	71		34	
5	11:30	76								145	40	15	88		42	15	88		42	
6	13:30	60								130	10	12	85		33	12	85		33	
7	16:00	90								160	13	12	109		39	12	109		39	
8	18:30	20								90	23	12	48		30	12	48		30	
9	20:00	5								75	12	12	38		25	12	38		25	
10	23:00	100										FREE								MAX 1
11	00:00	100										FREE								MAX 1
12	06:00	5								75	12	12	38		25	12	38		25	
13	08:00	50								120	54	15	71		34	15	71		34	
14	11:00	80								150	53	12	100		38	12	100		38	
15	16:00	65								135	57	12	85		38	12	85		38	
16	19:30	5								75	12	12	38		25	12	38		25	
	22:00	100										FREE								MAX 1

NOTE:
OFFSET REFERENCED TO PHASE 2+6 BEGINNING OF YELLOW.
INTERCONNECTED VIA CENTRAL SYSTEM.
TIME BASED COORDINATION - ALL TIMES ARE IN SECONDS.
THIS ZONE IS GROUP 2 WHICH INCLUDES THE FOLLOWING INTERSECTIONS:
1. FREEDOM RD AT POWELL RD
2. FREEDOM RD AT VALLEY FORGE DR & PARKWOOD DR
3. FREEDOM RD AT HAINE SCHOOL RD & LAPORTE DR
4. FREEDOM RD AT THORN HILL RD
5. FREEDOM RD AT HALDEMAN DR
6. FREEDOM RD AT COMMONWEALTH DR & MCINTYRE LN



Whitman, Requardt & Associates, LLP
300 Seven Fields Boulevard, Suite 110, Seven Fields, Pennsylvania 16046

CONTINGENCY TIMING PLAN
SR 3020 (FREEDOM RD) AT
T-302 (HAINE SCHOOL RD) & LAPORTE DR

NOTES:

- OFFSETS WILL BE REFERENCED TO THE BEGINNING OF GREEN OF THE COORDINATED PHASE IN RING 1.
- INTERSECTIONS INTERCONNECTED AND SUPERVISED BY CENTRACS SYSTEM AT CRANBERRY TWP TOC.
- ALL TIMES ARE IN SECONDS.
- GROUPS OF SIGNALS WILL VARY BASED ON ACTION PLAN IN EFFECT.

PARTIAL ROADWAY CLOSURES:

I-76 WESTBOUND

- FOR INCIDENTS THAT OCCUR ON I-76 (PA TURNPIKE) WEST OF EXIT 28, AND THE ROADWAY IS PARTIALLY CLOSED.
- ENABLE ACTION PLAN 88 FOR ALL TIMES FOR THIS SCENARIO.

INCLEMENT WEATHER PLANS

FOR INCLEMENT WEATHER CONDITIONS:

- ENABLE ACTION PLAN 89 FOR ALL TIMES FOR THIS SCENARIO.

HOLIDAY SHOPPING PLANS

DURING THE HOLIDAY SHOPPING SEASON:

- FROM 4TH FRIDAY IN NOVEMBER TO DECEMBER 24TH OF EACH YEAR, THE SIGNALS WILL RUN A DIFFERENT EVENT SCHEDULE, WITH ACTION PLANS 92 TO 96 IN EFFECT.

REVISION NUMBER	REVISIONS	DATE	BY	SHEET
1	REVISED COORD TIMINGS	2/27/2012	NRS	3 OF 3
2	REVISED COORD TIMINGS	1/7/2015	TAP	3 OF 3

SPC REPORT # - INT 315 - FREEDOM RD AT THORN HILL RD
CENTRACS HIERARCHY # - INT 27 - FREEDOM RD AT THORN HILL RD

COORDINATION CHART																		
EVENT NO.	TIME	PLAN	DAY OF WEEK							CYCLE	OFFSET	SPLIT						REMARKS
			M	T	W	T	F	S	S			φ2	φ4	φ5	φ6	φ8		
1	00:00	100										FREE						MAX 1
2	05:00	5	X	X	X	X	X	X		75	62	55	20	12	43	20		
3	06:30	75	X	X	X	X	X	X		145	91	115	30	18	97	30		
4	08:45	50	X	X	X	X	X	X		120	22	84	36	16	68	36		
5	11:30	76	X	X	X	X	X	X		145	52	109	36	16	93	36		
6	13:30	60	X	X	X	X	X	X		130	128	82	48	12	70	48		
7	16:00	90	X	X	X	X	X	X		160	2	110	50	12	98	50		
8	18:30	20	X	X	X	X	X	X		90	49	65	25	12	53	25		
9	20:00	5	X	X	X	X	X	X		75	62	55	20	12	43	20		
10	23:00	100	X	X	X	X	X	X				FREE						MAX 1
11	00:00	100						X	X			FREE						MAX 1
12	06:00	5						X	X	75	62	55	20	12	43	20		
13	08:00	50						X	X	120	22	84	36	16	68	36		
14	11:00	80						X	X	150	53	125	25	12	113	25		
15	16:00	65						X	X	135	80	110	25	12	98	25		
16	19:30	5						X	X	75	62	55	20	12	43	20		
17	22:00	100						X	X			FREE						MAX 1

NOTE:
OFFSET REFERENCED TO PHASE 2+6 BEGINNING OF YELLOW.
INTERCONNECTED VIA CENTRAL SYSTEM.
TIME BASED COORDINATION - ALL TIMES ARE IN SECONDS.
THIS ZONE IS GROUP 2 WHICH INCLUDES THE FOLLOWING INTERSECTIONS:
1. FREEDOM RD AT POWELL RD
2. FREEDOM RD AT VALLEY FORGE DR & PARKWOOD DR
3. FREEDOM RD AT HAINE SCHOOL RD & LAPORTE DR
4. FREEDOM RD AT THORN HILL RD
5. FREEDOM RD AT HALDEMAN DR
6. FREEDOM RD AT COMMONWEALTH DR & MCINTYRE LN



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CONTINGENCY TIMING PLAN
SR 3020 (FREEDOM RD) AT
T-937 (THORN HILL EXT) & NICKLAS SUPPLY DRIVEWAY

NOTES:

- OFFSETS WILL BE REFERENCED TO THE BEGINNING OF GREEN OF THE COORDINATED PHASE IN RING 1.
- INTERSECTIONS INTERCONNECTED AND SUPERVISED BY CENTRACS SYSTEM AT CRANBERRY TWP TOC.
- ALL TIMES ARE IN SECONDS.
- GROUPS OF SIGNALS WILL VARY BASED ON ACTION PLAN IN EFFECT.

PARTIAL ROADWAY CLOSURES:

I-76 WESTBOUND

- FOR INCIDENTS THAT OCCUR ON I-76 (PA TURNPIKE) WEST OF EXIT 28, AND THE ROADWAY IS PARTIALLY CLOSED.
- ENABLE ACTION PLAN 88 FOR ALL TIMES FOR THIS SCENARIO.

INCLEMENT WEATHER PLANS

FOR INCLEMENT WEATHER CONDITIONS:

- ENABLE ACTION PLAN 89 FOR ALL TIMES FOR THIS SCENARIO.

HOLIDAY SHOPPING PLANS

DURING THE HOLIDAY SHOPPING SEASON:

- FROM 4TH FRIDAY IN NOVEMBER TO DECEMBER 24TH OF EACH YEAR, THE SIGNALS WILL RUN A DIFFERENT EVENT SCHEDULE, WITH ACTION PLANS 92 TO 96 IN EFFECT.

MOVEMENT, SEQUENCE AND TIMING									
S.S.A. W/ VOLUME DENSITY 2-8 PHASE									
FLASHING									
EMERGENCY									
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WIRING DIAGRAM LEGEND

- EMERGENCY PREEMPTION NOTES

1. THE CONTROLLER SHALL BE EQUIPPED WITH SERVO-ACTUATED EMERGENCY VEHICLE PREEMPTION FOR THE EASTBOUND AND WESTBOUND APPROACHES OF SR 3070, (CEREDON ROAD), AND THE SOUTHBOUND APPROACH OF 1-240 (HAILEMAN DRIVE) WITH AN INDICATOR LIGHT FOR EACH APPROACH. THE INDICATOR LIGHT SHALL CONSIST OF A WHITE FLASH LIGHT, AND IT SHALL FLASH ONLY FOR THE APPROPRIATE APPROACH TO THE EMERGENCY VEHICLE. GREEN LIGHTS SHALL BE USED TO INDICATE THE PREEMPTION PHASE TO CONFIRM THAT THE EMERGENCY VEHICLE IS IN CONTROL. THE INDICATOR LIGHTS SHALL BE USED TO INDICATE THAT THE PREEMPTION PHASE WILL BE GIVEN TO NON-PREEMPTED APPROACHES. IN CASE OF A FAILURE, THIS INDICATION SHALL NOT BE GIVEN WHETHER THE FAILURE RESULTS FROM A PRIOR PREEMPTION OR ANOTHER APPROACH, FROM EQUIPMENT MALFUNCTION, OR FROM ANY OTHER CAUSE.
2. UPON PREEMPTION BY EMERGENCY VEHICLE, A CHANGE INTERVAL SHALL BE PROVIDED TO CLEAR ALL CONFLICTING VEHICULAR INTERVALS. A GREEN INDICATION WILL BE GIVEN TO THE SELECTED PHASE AND RED INDICATIONS GIVEN TO ALL OTHER APPROACHES.
3. IF THE SIGNALS ARE FLASHING WHEN ACTIVATED BY AN EMERGENCY VEHICLE, ALL SIGNALS SHALL REMAIN FLASHING.
4. WHEN RETURNING TO NORMAL OPERATION UPON COMPLETION OF PREEMPTION PHASE, THE SIGNAL WILL GO TO PHASE 2+6, INTERVAL 1.
5. EMERGENCY VEHICLES SHALL BE SERVED ON A "FIRST COME, FIRST SERVED" BASIS. SERVO-ACTUATED EMERGENCY VEHICLE PREEMPTION IS APPROVED BY PENNDOT, NOT ALL OTHER KINDS OR CLASSES OF VEHICLES. SERVO-ACTUATED EMERGENCY VEHICLE PREEMPTION IS NOT APPROVED BY PENNDOT.

REVISION NUMBER	REVISIONS	DATE	BY	SHEET
1	REVISED COORD TIMINGS	2/27/2012	NRS	4 OF 4
2	REVISED COORD TIMINGS	1/7/2015	TAP	4 OF 4

SPC REPORT # - INT 320 - FREEDOM RD AT HALDEMAN DR
CENTRACS HIERARCHY # - INT 47 - FREEDOM RD AT HALDEMAN DR

COORDINATION CHART																		
EVENT NO.	TIME	PLAN	DAY OF WEEK							CYCLE	OFFSET	SPLIT						REMARKS
			M	T	W	T	F	S	S			φ2	φ4	φ5	φ6			
1	00:00	100										FREE						MAX 1
2	05:00	5								75	19	45	30	12	33		Ø4 ENABLE PHASE RESERVICE	
3	06:30	75								145	115	100	45	15	85		Ø4 USE VEHICLE PERMISSIVE OF 50s	
4	08:45	50								120	38	80	40	14	66		Ø4 USE VEHICLE PERMISSIVE OF 30s	
5	11:30	76								145	40	110	35	14	96		Ø4 USE VEHICLE PERMISSIVE OF 40s	
6	13:30	60								130	51	90	40	14	76		Ø4 USE VEHICLE PERMISSIVE OF 35s	
7	16:00	90								160	33	120	40	14	106		Ø4 USE VEHICLE PERMISSIVE OF 50s	
8	18:30	20								90	19	65	25	12	53		Ø4 USE VEHICLE PERMISSIVE OF 10s	
9	20:00	5								75	19	45	30	12	33		Ø4 ENABLE PHASE RESERVICE	
10	23:00	100										FREE						MAX 1
11	00:00	100										FREE						MAX 1
12	06:00	5								75	19	45	30	12	33		Ø4 ENABLE PHASE RESERVICE	
13	08:00	50								120	38	80	40	14	66		Ø4 USE VEHICLE PERMISSIVE OF 30s	
14	11:00	80								150	55	112	38	12	100		Ø4 USE VEHICLE PERMISSIVE OF 40s	
15	16:00	65								135	64	100	35	12	88		Ø4 USE VEHICLE PERMISSIVE OF 30s	
16	19:30	5								75	19	45	30	12	33		Ø4 ENABLE PHASE RESERVICE	
17	22:00	100										FREE						MAX 1

NOTE:
OFFSET REFERENCED TO PHASE 2+6 BEGINNING OF YELLOW.
INTERCONNECTED VIA CENTRAL SYSTEM.
TIME BASED COORDINATION - ALL TIMES ARE IN SECONDS.
THIS ZONE IS GROUP 2 WHICH INCLUDES THE FOLLOWING INTERSECTIONS:
1. FREEDOM RD AT POWELL RD
2. FREEDOM RD AT VALLEY FORGE DR & PARKWOOD DR
3. FREEDOM RD AT HAINE SCHOOL RD & LAPORTE DR
4. FREEDOM RD AT THORN HILL RD
5. FREEDOM RD AT HALDEMAN DR
6. FREEDOM RD AT COMMONWEALTH DR & MCINTYRE LN



Whitman, Requardt & Associates, LLP
300 Seven Fields Boulevard, Suite 130, Seven Fields, Pennsylvania 16046

CONTINGENCY TIMING PLAN

SR 3020 (FREEDOM RD) AT T-340 (HALDEMAN DR)

NOTES:

- OFFSETS WILL BE REFERENCED TO THE BEGINNING OF GREEN OF THE COORDINATED PHASE IN RING 1.
- INTERSECTIONS INTERCONNECTED AND SUPERVISED BY CENTRACS SYSTEM AT CRANBERRY TWP TOC.
- ALL TIMES ARE IN SECONDS.
- GROUPS OF SIGNALS WILL VARY BASED ON ACTION PLAN IN EFFECT.

PARTIAL ROADWAY CLOSURES:

I-76 WESTBOUND

- FOR INCIDENTS THAT OCCUR ON I-76 (PA TURNPIKE) WEST OF EXIT 28, AND THE ROADWAY IS PARTIALLY CLOSED.
- ENABLE ACTION PLAN 88 FOR ALL TIMES FOR THIS SCENARIO.

INCLEMENT WEATHER PLANS

FOR INCLEMENT WEATHER CONDITIONS:

- ENABLE ACTION PLAN 89 FOR ALL TIMES FOR THIS SCENARIO.

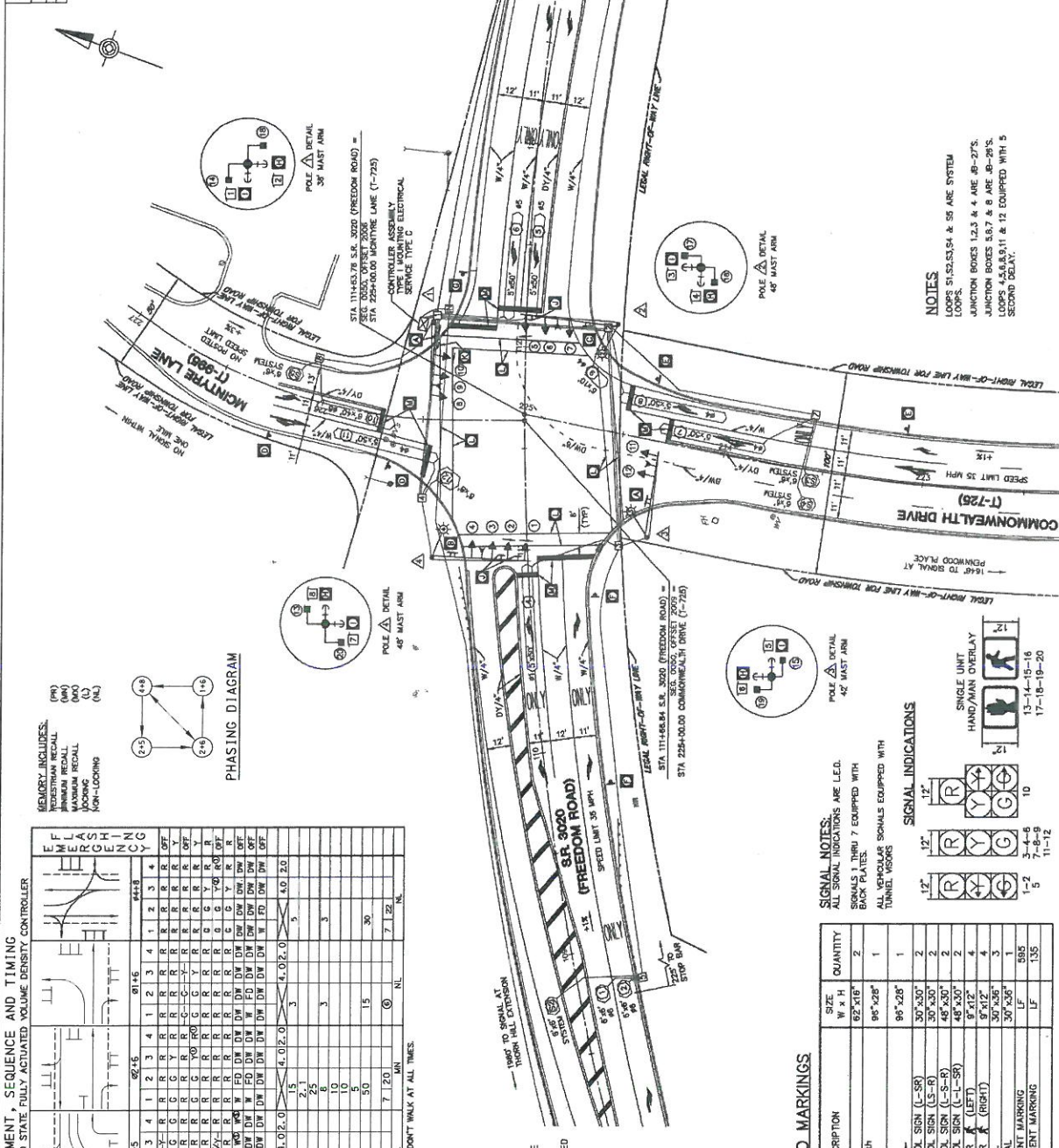
HOLIDAY SHOPPING PLANS

DURING THE HOLIDAY SHOPPING SEASON:

- FROM 4TH FRIDAY IN NOVEMBER TO DECEMBER 24TH OF EACH YEAR, THE SIGNALS WILL RUN A DIFFERENT EVENT SCHEDULE, WITH ACTION PLANS 92 TO 96 IN EFFECT.

PROJECT NUMBER	15-094-10	SHEET	2	OF	4	DATE	11/22/05
REVISION		DATE				BY	
1	REVISED TRAFFIC AND COORDINATION PLAN	11/22/05				JPM	
2	REVISED PHASING, TIMING AND COORD. BLACK	01/07/2016				TAP	

- LEGEND**
- STRAIN ARM
 - PEDESTAL
 - VEHICULAR SIGNAL HEAD
 - PEDESTRIAN SIGNAL HEAD
 - SR (POST MOUNTED)
 - SR (STRUCTURE MOUNTED)
 - VEHICLE DETECTOR
 - PEDESTRIAN PUSH BUTTON/SEN
 - JUNCTION BOX
 - CONDUIT/PIPE
 - CONTROLLER ASSEMBLY
 - W/1" SOLID WHITE LINE/NOTH
 - W/1" SOLID YELLOW LINE/NOTH
 - W/1" SOLID YELLOW LINE/NOTH
 - DOUBLE SOLID YELLOW LINE/NOTH
 - LUMINAIRE
 - INTERCONNECT JUNCTION BOX/CONDUIT
 - UTILITY POLE
 - EW FAIL SAFE INDICATION



MOVEMENT, SEQUENCE AND TIMING

2-8 PHASE SOLID STATE FULLY ACTIVATED VOLUME DENSITY CONTROLLER

PHASE	INTERVAL	02+15										02+16										02+17										02+18										02+19	02+20	02+21	02+22	02+23	02+24	02+25	02+26	02+27	02+28	02+29	02+30	02+31	02+32	02+33	02+34	02+35	02+36	02+37	02+38	02+39	02+40	02+41	02+42	02+43	02+44	02+45	02+46	02+47	02+48	02+49	02+50	02+51	02+52	02+53	02+54	02+55	02+56	02+57	02+58	02+59	02+60	02+61	02+62	02+63	02+64	02+65	02+66	02+67	02+68	02+69	02+70	02+71	02+72	02+73	02+74	02+75	02+76	02+77	02+78	02+79	02+80	02+81	02+82	02+83	02+84	02+85	02+86	02+87	02+88	02+89	02+90	02+91	02+92	02+93	02+94	02+95	02+96	02+97	02+98	02+99	03+00	03+01	03+02	03+03	03+04	03+05	03+06	03+07	03+08	03+09	03+10	03+11	03+12	03+13	03+14	03+15	03+16	03+17	03+18	03+19	03+20	03+21	03+22	03+23	03+24	03+25	03+26	03+27	03+28	03+29	03+30	03+31	03+32	03+33	03+34	03+35	03+36	03+37	03+38	03+39	03+40	03+41	03+42	03+43	03+44	03+45	03+46	03+47	03+48	03+49	03+50	03+51	03+52	03+53	03+54	03+55	03+56	03+57	03+58	03+59	03+60	03+61	03+62	03+63	03+64	03+65	03+66	03+67	03+68	03+69	03+70	03+71	03+72	03+73	03+74	03+75	03+76	03+77	03+78	03+79	03+80	03+81	03+82	03+83	03+84	03+85	03+86	03+87	03+88	03+89	03+90	03+91	03+92	03+93	03+94	03+95	03+96	03+97	03+98	03+99	04+00	04+01	04+02	04+03	04+04	04+05	04+06	04+07	04+08	04+09	04+10	04+11	04+12	04+13	04+14	04+15	04+16	04+17	04+18	04+19	04+20	04+21	04+22	04+23	04+24	04+25	04+26	04+27	04+28	04+29	04+30	04+31	04+32	04+33	04+34	04+35	04+36	04+37	04+38	04+39	04+40	04+41	04+42	04+43	04+44	04+45	04+46	04+47	04+48	04+49	04+50	04+51	04+52	04+53	04+54	04+55	04+56	04+57	04+58	04+59	04+60	04+61	04+62	04+63	04+64	04+65	04+66	04+67	04+68	04+69	04+70	04+71	04+72	04+73	04+74	04+75	04+76	04+77	04+78	04+79	04+80	04+81	04+82	04+83	04+84	04+85	04+86	04+87	04+88	04+89	04+90	04+91	04+92	04+93	04+94	04+95	04+96	04+97	04+98	04+99	05+00	05+01	05+02	05+03	05+04	05+05	05+06	05+07	05+08	05+09	05+10	05+11	05+12	05+13	05+14	05+15	05+16	05+17	05+18	05+19	05+20	05+21	05+22	05+23	05+24	05+25	05+26	05+27	05+28	05+29	05+30	05+31	05+32	05+33	05+34	05+35	05+36	05+37	05+38	05+39	05+40	05+41	05+42	05+43	05+44	05+45	05+46	05+47	05+48	05+49	05+50	05+51	05+52	05+53	05+54	05+55	05+56	05+57	05+58	05+59	05+60	05+61	05+62	05+63	05+64	05+65	05+66	05+67	05+68	05+69	05+70	05+71	05+72	05+73	05+74	05+75	05+76	05+77	05+78	05+79	05+80	05+81	05+82	05+83	05+84	05+85	05+86	05+87	05+88	05+89	05+90	05+91	05+92	05+93	05+94	05+95	05+96	05+97	05+98	05+99	06+00	06+01	06+02	06+03	06+04	06+05	06+06	06+07	06+08	06+09	06+10	06+11	06+12	06+13	06+14	06+15	06+16	06+17	06+18	06+19	06+20	06+21	06+22	06+23	06+24	06+25	06+26	06+27	06+28	06+29	06+30	06+31	06+32	06+33	06+34	06+35	06+36	06+37	06+38	06+39	06+40	06+41	06+42	06+43	06+44	06+45	06+46	06+47	06+48	06+49	06+50	06+51	06+52	06+53	06+54	06+55	06+56	06+57	06+58	06+59	06+60	06+61	06+62	06+63	06+64	06+65	06+66	06+67	06+68	06+69	06+70	06+71	06+72	06+73	06+74	06+75	06+76	06+77	06+78	06+79	06+80	06+81	06+82	06+83	06+84	06+85	06+86	06+87	06+88	06+89	06+90	06+91	06+92	06+93	06+94	06+95	06+96	06+97	06+98	06+99	07+00	07+01	07+02	07+03	07+04	07+05	07+06	07+07	07+08	07+09	07+10	07+11	07+12	07+13	07+14	07+15	07+16	07+17	07+18	07+19	07+20	07+21	07+22	07+23	07+24	07+25	07+26	07+27	07+28	07+29	07+30	07+31	07+32	07+33	07+34	07+35	07+36	07+37	07+38	07+39	07+40	07+41	07+42	07+43	07+44	07+45	07+46	07+47	07+48	07+49	07+50	07+51	07+52	07+53	07+54	07+55	07+56	07+57	07+58	07+59	07+60	07+61	07+62	07+63	07+64	07+65	07+66	07+67	07+68	07+69	07+70	07+71	07+72	07+73	07+74	07+75	07+76	07+77	07+78	07+79	07+80	07+81	07+82	07+83	07+84	07+85	07+86	07+87	07+88	07+89	07+90	07+91	07+92	07+93	07+94	07+95	07+96	07+97	07+98	07+99	08+00	08+01	08+02	08+03	08+04	08+05	08+06	08+07	08+08	08+09	08+10	08+11	08+12	08+13	08+14	08+15	08+16	08+17	08+18	08+19	08+20	08+21	08+22	08+23	08+24	08+25	08+26	08+27	08+28	08+29	08+30	08+31	08+32	08+33	08+34	08+35	08+36	08+37	08+38	08+39	08+40	08+41	08+42	08+43	08+44	08+45	08+46	08+47	08+48	08+49	08+50	08+51	08+52	08+53	08+54	08+55	08+56	08+57	08+58	08+59	08+60	08+61	08+62	08+63	08+64	08+65	08+66	08+67	08+68	08+69	08+70	08+71	08+72	08+73	08+74	08+75	08+76	08+77	08+78	08+79	08+80	08+81	08+82	08+83	08+84	08+85	08+86	08+87	08+88	08+89	08+90	08+91	08+92	08+93	08+94	08+95	08+96	08+97	08+98	08+99	09+00	09+01	09+02	09+03	09+04	09+05	09+06	09+07	09+08	09+09	09+10	09+11	09+12	09+13	09+14	09+15	09+16	09+17	09+18	09+19	09+20	09+21	09+22	09+23	09+24	09+25	09+26	09+27	09+28	09+29	09+30	09+31	09+32	09+33	09+34	09+35	09+36	09+37	09+38	09+39	09+40	09+41	09+42	09+43	09+44	09+45	09+46	09+47	09+48	09+49	09+50	09+51	09+52	09+53	09+54	09+55	09+56	09+57	09+58	09+59	09+60	09+61	09+62	09+63	09+64	09+65	09+66	09+67	09+68	09+69	09+70	09+71	09+72	09+73	09+74	09+75	09+76	09+77	09+78	09+79	09+80	09+81	09+82	09+83	09+84	09+85	09+86	09+87	09+88	09+89	09+90	09+91	09+92	09+93	09+94	09+95	09+96	09+97	09+98	09+99	10+00	10+01	10+02	10+03	10+04	10+05	10+06	10+07	10+08	10+09	10+10	10+11	10+12	10+13	10+14	10+15	10+16	10+17	10+18	10+19	10+20	10+21	10+22	10+23	10+24	10+25	10+26	10+27	10+28	10+29	10+30	10+31	10+32	10+33	10+34	10+35	10+36	10+37	10+38	10+39	10+40	10+41	10+42	10+43	10+44	10+45	10+46	10+47	10+48	10+49	10+50	10+51	10+52	10+53	10+54	10+55	10+56	10+57	10+58	10+59	10+60	10+61	10+62	10+63	10+64	10+65	10+66	10+67	10+68	10+69	10+70	10+71	10+72	10+73	10+74	10+75	10+76	10+77	10+78	10+79	10+80	10+81	10+82	10+83	10+84	10+85	10+86	10+87	10+88	10+89	10+90	10+91	10+92	10+93	10+94	10+95	10+96	10+97	10+98	10+99	11+00	11+01	11+02	11+03	11+04	11+05	11+06	11+07	11+08	11+09	11+10	11+11	11+12	11+13	11+14	11+15	11+16	11+17	11+18	11+19	11+20	11+21	11+22	11+23	11+24	11+25	11+26	11+27	11+28	11+29	11+30	11+31	11+32	11+33	11+34	11+35	11+36	11+37	11+38	11+39	11+40	11+41	11+42	11+43	11+44	11+45	11+46	11+47	11+48	11+49	11+50	11+51	11+52	11+53	11+54	11+55	11+56	11+57	11+58	11+59	11+60	11+61	11+6
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REVISION NUMBER	REVISIONS	DATE	BY	SHEET
1	REVISED COORD TIMINGS	2/27/2012	NRS	4 OF 4
2	REVISED COORD TIMINGS	1/7/2015	TAP	4 OF 4

SPC REPORT # - INT 325 - FREEDOM RD AT COMMONWEALTH DR & MCINTYRE LN
CENTRACS HIERARCHY # - INT 26 - FREEDOM RD AT COMMONWEALTH DR & MCINTYRE LN

COORDINATION CHART																				
EVENT NO.	TIME	PLAN	DAY OF WEEK							CYCLE	OFFSET	SPLIT								REMARKS
			M	T	W	T	F	S	S			φ1	φ2		φ4	φ5	φ6		φ8	
1	00:00	100										FREE								MAX 1
2	05:00	5	X	X	X	X	X	X		75	10	14	41		20	14	41		20	LAG EBL
3	06:30	75	X	X	X	X	X	X		145	88	18	101		26	28	91		26	LAG EBL
4	08:45	50	X	X	X	X	X	X		120	14	20	74		26	21	73		26	LAG EBL
5	11:30	76	X	X	X	X	X	X		145	4	20	99		26	26	93		26	LAG EBL
6	13:30	60	X	X	X	X	X	X		130	25	15	82		33	16	81		33	LAG EBL
7	16:00	90	X	X	X	X	X	X		160	14	17	105		38	18	104		38	LAG EBL
8	18:30	20	X	X	X	X	X	X		90	2	15	52		23	18	49		23	LAG EBL
9	20:00	5	X	X	X	X	X	X		75	10	14	41		20	14	41		20	LAG EBL
10	23:00	100	X	X	X	X	X	X				FREE								MAX 1
11	00:00	100						X	X			FREE								MAX 1
12	06:00	5						X	X	75	10	14	41		20	14	41		20	LAG EBL
13	08:00	50						X	X	120	14	20	74		26	21	73		26	LAG EBL
14	11:00	80						X	X	150	44	15	113		22	20	108		22	LAG EBL
15	16:00	65						X	X	135	48	16	97		22	21	92		22	LAG EBL
16	19:30	5						X	X	75	10	14	41		20	14	41		20	LAG EBL
17	22:00	100						X	X			FREE								MAX 1

NOTE:
OFFSET REFERENCED TO PHASE 2+6 BEGINNING OF YELLOW.
INTERCONNECTED VIA CENTRAL SYSTEM.
TIME BASED COORDINATION - ALL TIMES ARE IN SECONDS.
THIS ZONE IS GROUP 2 WHICH INCLUDES THE FOLLOWING INTERSECTIONS:
1. FREEDOM RD AT POWELL RD
2. FREEDOM RD AT VALLEY FORGE DR & PARKWOOD DR
3. FREEDOM RD AT HAINE SCHOOL RD & LAPORTE DR
4. FREEDOM RD AT THORN HILL RD
5. FREEDOM RD AT HALDEMAN DR
6. FREEDOM RD AT COMMONWEALTH DR & MCINTYRE LN



Whitman, Requardt & Associates, LLP
300 Seven Fields Boulevard, Suite 130, Seven Fields, Pennsylvania 16046

**CONTINGENCY TIMING PLAN
SR 3020 (FREEDOM RD) AT
T-725 (COMMONWEALTH DR) & T-995 (MCINTYRE LN)**

NOTES:

- OFFSETS WILL BE REFERENCED TO THE BEGINNING OF GREEN OF THE COORDINATED PHASE IN RING 1.
- INTERSECTIONS INTERCONNECTED AND SUPERVISED BY CENTRACS SYSTEM AT CRANBERRY TWP TOC.
- ALL TIMES ARE IN SECONDS.
- GROUPS OF SIGNALS WILL VARY BASED ON ACTION PLAN IN EFFECT.

ROADWAY INCIDENT PLANS

FULL ROADWAY CLOSURES:

I-79 SOUTHBOUND

FOR INCIDENTS THAT OCCUR ON I-79 SOUTHBOUND FROM EXIT 83 TO EXIT 73, AND THE ENTIRE ROADWAY IS CLOSED.

- ENABLE ACTION PLAN 81 (AM PEAK) OR 82 (PM PEAK) DEPENDING UPON TIME OF DAY OF INCIDENT.

I-79 NORTHBOUND

FOR INCIDENTS THAT OCCUR ON I-79 NORTHBOUND FROM EXIT 73 TO EXIT 83, AND THE ENTIRE ROADWAY IS CLOSED.

- ENABLE ACTION PLAN 83 (AM PEAK) OR 84 (PM PEAK) DEPENDING UPON TIME OF DAY OF INCIDENT.

PARTIAL ROADWAY CLOSURES:

I-79 SOUTHBOUND

FOR INCIDENTS THAT OCCUR ON I-79 SOUTH OF EXIT 78, AND THE ROADWAY IS PARTIALLY CLOSED.

- ENABLE ACTION PLAN 85 FOR ALL TIMES FOR THIS SCENARIO.

I-79 NORTHBOUND

FOR INCIDENTS THAT OCCUR ON I-79 SOUTH OF EXIT 78, AND THE ROADWAY IS PARTIALLY CLOSED.

- ENABLE ACTION PLAN 86 FOR ALL TIMES FOR THIS SCENARIO.

I-76 EASTBOUND

FOR INCIDENTS THAT OCCUR ON I-76 (PA TURNPIKE) EAST OF EXIT 28, AND THE ROADWAY IS PARTIALLY CLOSED.

- ENABLE ACTION PLAN 87 FOR ALL TIMES FOR THIS SCENARIO.

I-76 WESTBOUND

FOR INCIDENTS THAT OCCUR ON I-76 (PA TURNPIKE) WEST OF EXIT 28, AND THE ROADWAY IS PARTIALLY CLOSED.

- ENABLE ACTION PLAN 88 FOR ALL TIMES FOR THIS SCENARIO.

INCLEMENT WEATHER PLANS

FOR INCLEMENT WEATHER CONDITIONS:

- ENABLE ACTION PLAN 89 FOR ALL TIMES FOR THIS SCENARIO.

HOLIDAY SHOPPING PLANS

DURING THE HOLIDAY SHOPPING SEASON:

- FROM 4TH FRIDAY IN NOVEMBER TO DECEMBER 24TH OF EACH YEAR, THE SIGNALS WILL RUN A DIFFERENT EVENT SCHEDULE, WITH ACTION PLANS 92 TO 96 IN EFFECT.



SPC REGIONAL TRAFFIC SIGNAL PROGRAM Cycle 3
Intersection Inventory

Last Update: 4/18/2017

Int. # 315

Corridor Name: Freedom Rd

Int. Name: Freedom Rd @ Thorn Hill Rd

Description: Intersection Approach (NB)



Description: Intersection Approach (SB)



Description: Intersection Approach (EB)



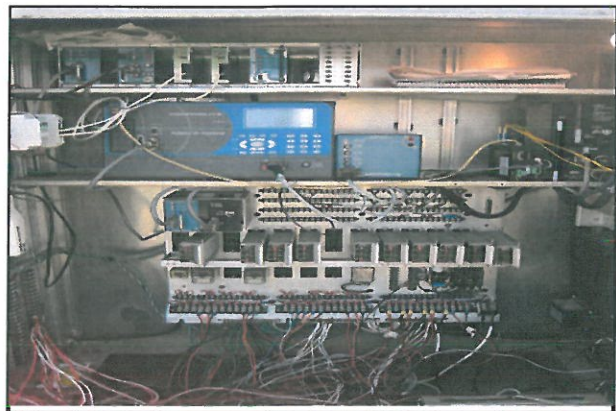
Description: Intersection Approach (WB)



Description: Cabinet Detail (Door)



Description: Cabinet Detail (Interior)





SPC REGIONAL TRAFFIC SIGNAL PROGRAM Cycle 3
Intersection Inventory

Last Update: 4/18/2017

Int. # 320

Corridor Name: Freedom Rd

Int. Name: Freedom Rd @ Haldeman Dr

Description:



Description: Intersection Approach (SB)



Description: Intersection Approach (EB)



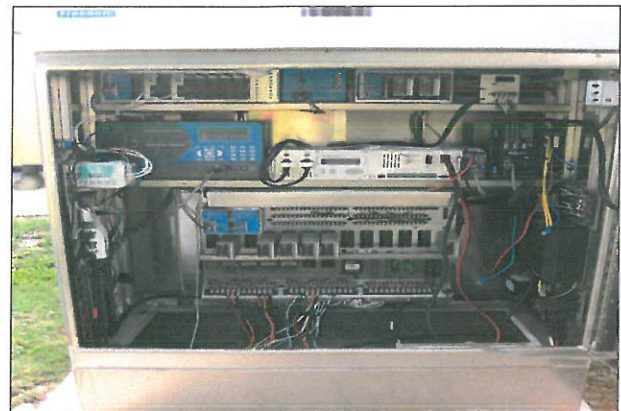
Description: Intersection Approach (WB)



Description: Cabinet Detail (Door)



Description: Cabinet Detail (Interior)





SPC REGIONAL TRAFFIC SIGNAL PROGRAM Cycle 3
Intersection Inventory

Last Update: 4/18/2017

Int. # 325

Corridor Name: Freedom Rd

Int. Name: Freedom Rd @ Commonwealth Dr / McIntyre Ln

Description: Intersection Approach (NB)



Description: Intersection Approach (SB)



Description: Intersection Approach (EB)



Description: Intersection Approach (WB)



Description: Cabinet Detail (Door)



Description: Cabinet Detail (Interior)

