

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
2-0	CENTRE	LOCAL		9 OF 18	
FERGUSON TOWNSHIP					
REVISION NUMBER	REVISIONS			DATE	BY

PHASING DIAGRAM

SIGNAL	PHASE 2+6					PHASE 4+8					EMERGENCY FLASHING
	1	2	3	4	5	1	2	3	4	5	
1,2	R	G	G	Y	R	R	R	R	R	R	Y
3,4	R	G	G	Y	R	R	R	R	R	R	Y
5,6	R	R	R	R	R	R	G	G	Y	R	R
7,8	R	R	R	R	R	R	G	G	Y	R	R
9,10 (**)	W	W	FD	DW	DW	DW	DW	DW	DW	DW	OFF
11,12 (**)	W	W	FD	DW	DW	DW	DW	DW	DW	DW	OFF
13,14 (**)	DW	DW	DW	DW	DW	W	W	FD	DW	DW	OFF
15,16 (**)	DW	DW	DW	DW	DW	W	W	FD	DW	DW	OFF
FIXED			4	2					3	3	
MIN GREEN		8							3		
PASSAGE		1.5							3		
MAX 1		63							25		
CYCLE 1 (*)			69						31		
CYCLE 2 (*)			74						31		
PEDESTRIAN (**)	5	2	15			5	2	15			
MEMORY		MIN RECALL				NON-LOCKING					

SIGNAL NOTES:
 (*) TIME EQUALS TOTAL LENGTH OF PHASE.
 (**) WALK SYMBOL AND TIMES UPON PEDESTRIAN ACTUATION ONLY, OTHERWISE DON'T WALK AT ALL TIMES.

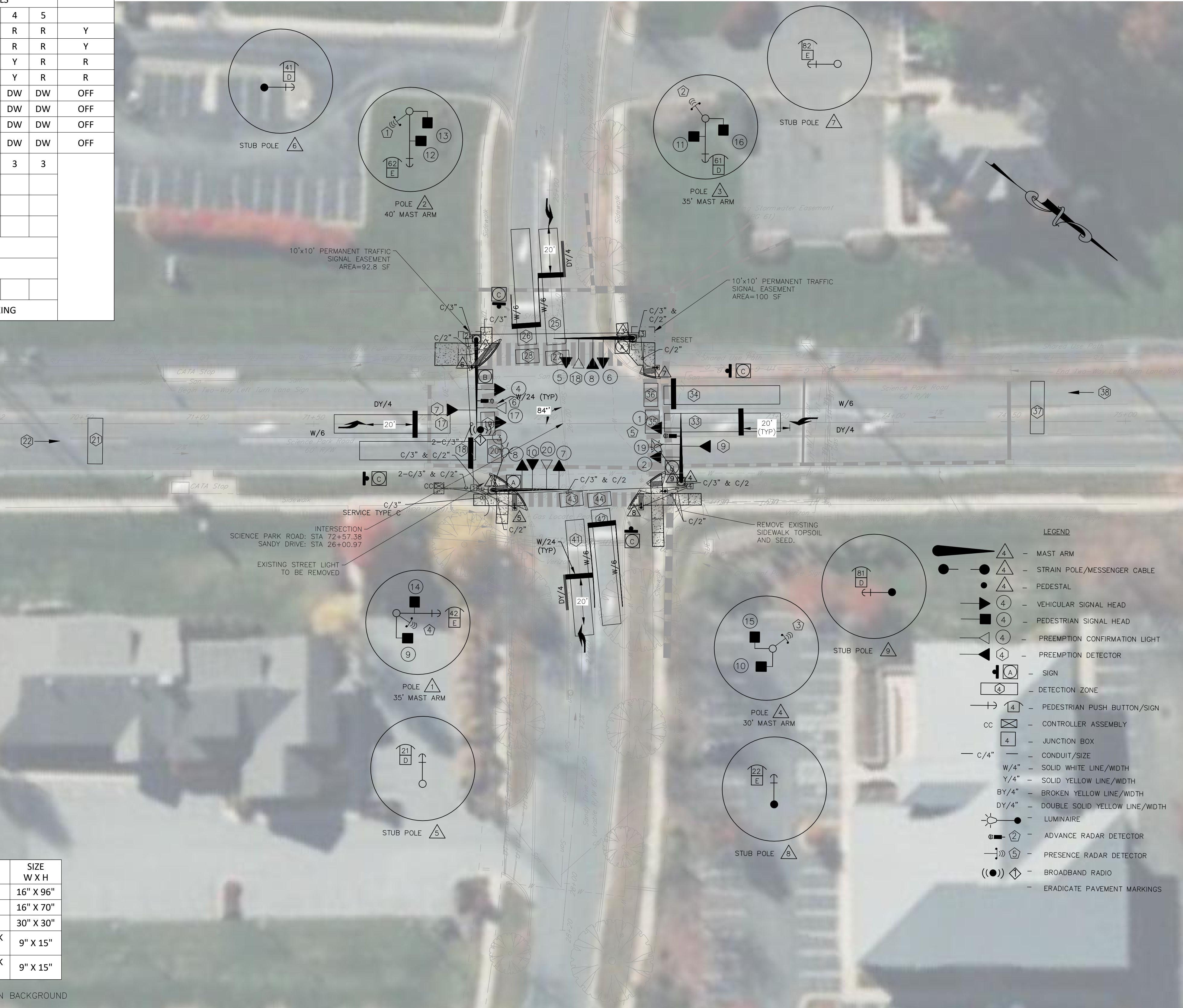
COORDINATING DIAGRAM

PLAN NO.	DAY OF WEEK							TIME	CYCLE (SEC)	OFFSET (SEC) *	REMARKS
	S	M	T	W	T	F	S				
1								0:00	-	-	MAX 1
2								7:30	100	89	CYCLE 1
1								9:00	-	-	MAX 1
3								15:00	105	7	CYCLE 2
1								18:00	-	-	MAX 1

ATSPM DETECTOR MAPPING TABLE

DETECTOR TYPE	DETECTOR SIZE / LOCATION FROM STOP BAR	PHASE / ZONE (DETECTOR)								
		2	5	4	7	6	1	8	3	
PRESENCE	50' x 10' @ 40'	17-18 (1)	-	25-26 (2)	-	33-34 (3)	-	41-42 (4)	-	-
COUNT	6' x 10' @ -20'	19-20 (1)	-	27-28 (2)	-	35-36 (3)	-	43-44 (4)	-	-
PULSE ADVANCE	6' @ 400'	21 (5)	-	-	-	37 (6)	-	-	-	-
DILEMA ZONE	CONTINUOUS @ 450'	22 (5)	-	-	-	38 (6)	-	-	-	-
PEDESTRIAN	PB	49	21-22	50	41-42	51	61-62	52	81-82	

- CONSTRUCTION NOTES:
- IMMEDIATELY PRIOR TO TURNING ON SIGNAL, REMOVE CONFLICTING VEHICLE STOP SIGNS ON SANDY DRIVE, BIKE STOP SIGNS ALONG SHARED USE PATH, AND STREET NAME SIGN. PROVIDE ALL SIGNS, POSTS, AND ANCHORS TO FERGUSON TOWNSHIP. INCIDENTAL TO PROJECT.
 - IMMEDIATELY PRIOR TO TURNING ON SIGNAL, INSTALL TURN RESTRICTION SIGNS AT SCIENCE PARK ROAD AND SANDY DRIVE (SOUTH).



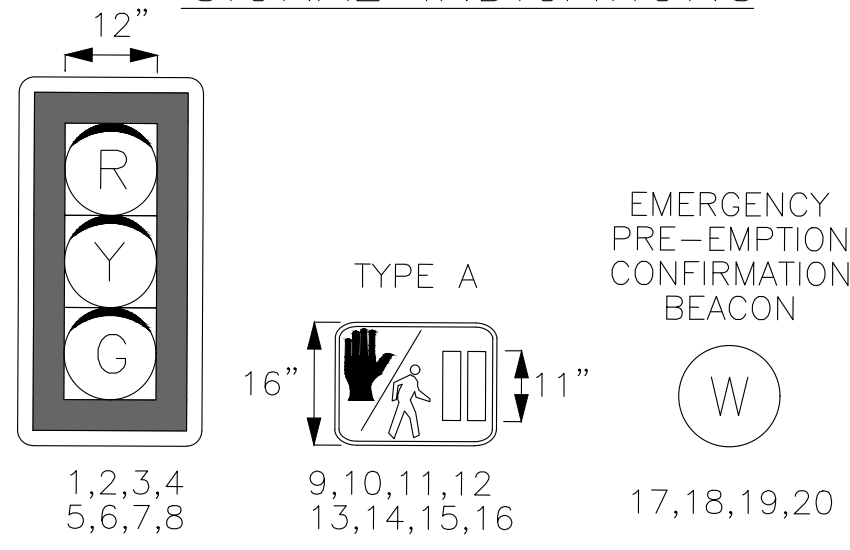
PRESENCE DETECTION ZONE NOTES:

RANGE OF DETECTION: MINIMUM 30 - MAXIMUM 100 FEET FROM STOP BAR
 MINIMUM SPEED BOUNDARY - 1 MPH ZONE MAY BE ADJUSTED IN FIELD.

ADVANCE DILEMMA ZONE NOTES:

ESTIMATED TIME OF ARRIVAL: MINIMUM 2.5 SECONDS - MAXIMUM 5.5 SECONDS. RANGE OF DETECTION: MINIMUM 5 FEET - MAXIMUM 450 FEET FROM THE STOP BAR. MINIMUM SPEED BOUNDARY 10 MPH. ZONE MAY BE ADJUSTED IN THE FIELD.

SIGNAL INDICATIONS



SIGN TABLE

PLAN SYMBOL	SERIES DESIGNATION	DESCRIPTION	SIZE W X H
A	D3-4	SCIENCE PARK RD	16" X 96"
B	D3-4	SANDY DRIVE	16" X 70"
C	R3-8(L-SR)	LANE USE CONTROL SIGN (L-SR)	30" X 30"
D	R10-3E-L	EDUCATIONAL PUSH BUTTON FOR WALK SIGNAL WITH COUNTDOWN TIMER	9" X 15"
E	R10-3E-R	EDUCATIONAL PUSH BUTTON FOR WALK SIGNAL WITH COUNTDOWN TIMER	9" X 15"

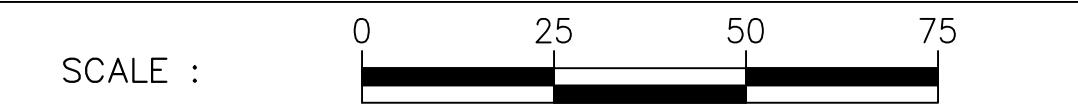
NOTE: SIGNS A AND B SHALL HAVE WHITE LEGEND ON A GREEN BACKGROUND

TRAFFIC SIGNAL PLAN

COUNTY : CENTRE
 MUNICIPALITY : FERGUSON TOWNSHIP
 INTERSECTION : SCIENCE PARK ROAD (T-336)
 AND SANDY DRIVE (T-306)

APPROVED BY:
 MUNICIPAL OFFICIAL 12/20/2023
 DATE

RECOMMENDED :
 DISTRICT TRAFFIC ENGINEER DATE



PATH:\PUBLIC WORKS\PWSTAFF\CAPITAL PROJECTS\2020 PROJECTS\2020-C18 SCIENCE PARK & SANDY NORTH SIGNAL DESIGN.DWG SHEET:OPEN HOUSE 1 SAVED:1/10/2024 2:08 PM