



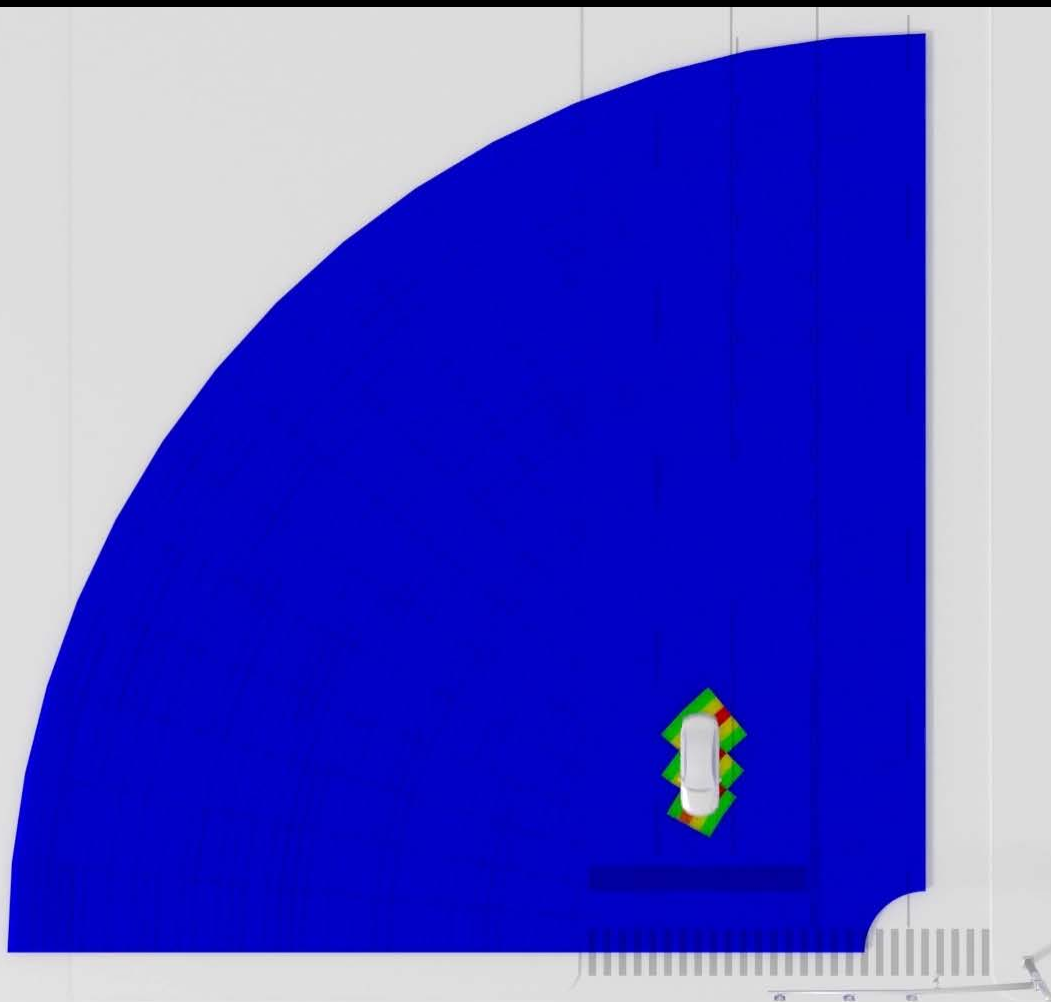
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Mike Singson: Advanced Traffic Products
Mikey@advancedtraffic.com









Sensor Setup

1

2

3-Verification

1 N	2 N	3 N	4 N	5 N	6 N	7 N	8 N

Unna...>>

The diagram shows a yellow circular sector representing the sensor's range. Three vertical black lines represent sensor beams. The leftmost beam has a green box at its base. The middle beam has a red box at its base. The rightmost beam has a cyan box at its base. Arrows indicate the direction of the beams: left, down, and right.



New radar technology that triggers traffic lights for bicyclists looks to end frustrations for Salt Lake City bikers



(Rick Egan | The Salt Lake Tribune) The white box on the left is one of ten traffic signal detectors, Salt Lake City h...

[View Caption »](#)



Create Free
Invitations

Create Customize
Invitations, in Minutes.
Email - Print - Share

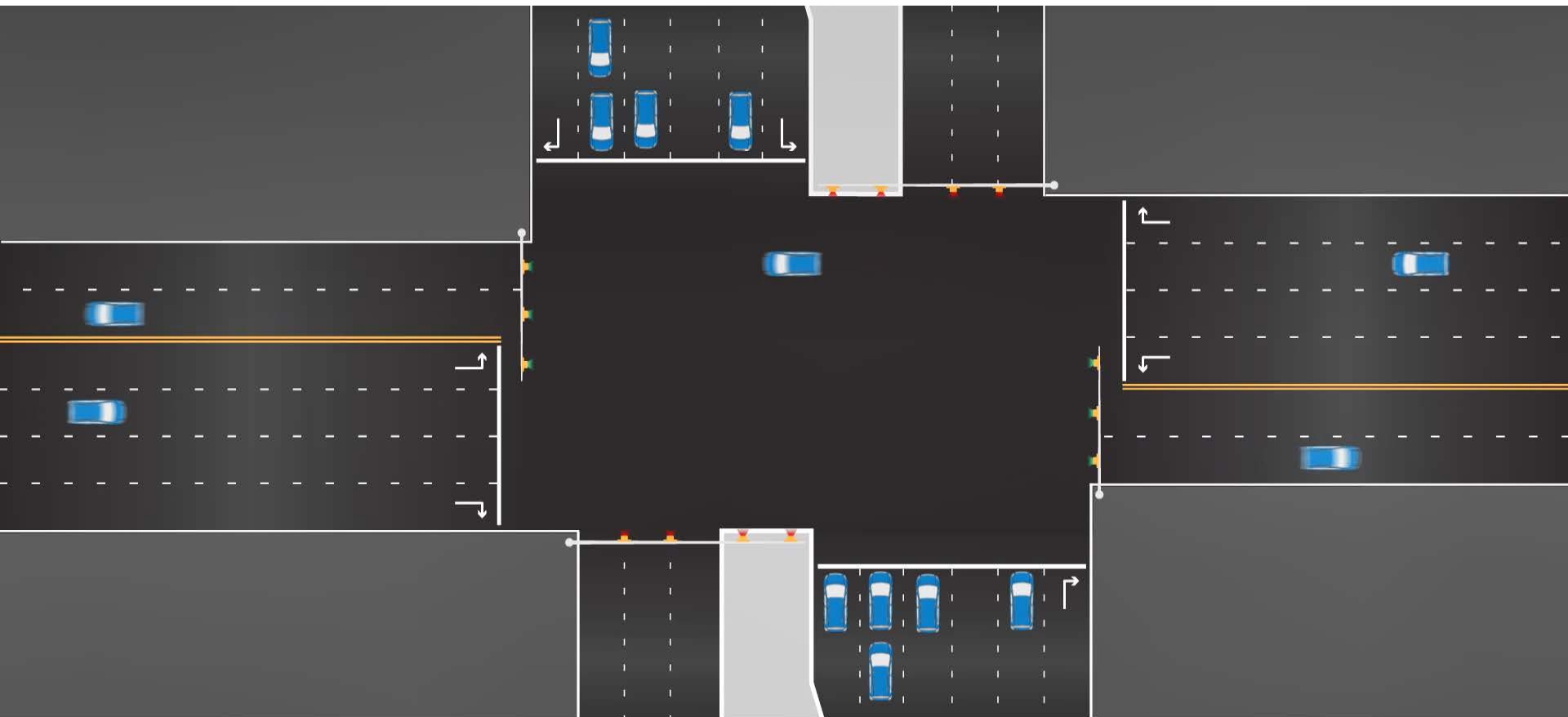
smilebox.com











Sensor Setup

1 2 **3-Verification**

1 2 3 4 5 6 7 8

WB

Sensor Setup

1 2 **3-Verification**

1 2 3 4 5 6 7 8

NB



PROCESSED DETECTOR STATUS:

DETECTOR	1	2	3	4	5	6	7	8
DETECTOR	9	10	11	12	13	14	15	16
DETECTOR	17	18	19	20	21	22	23	24
DETECTOR	25	26	27	28	29	30	31	32

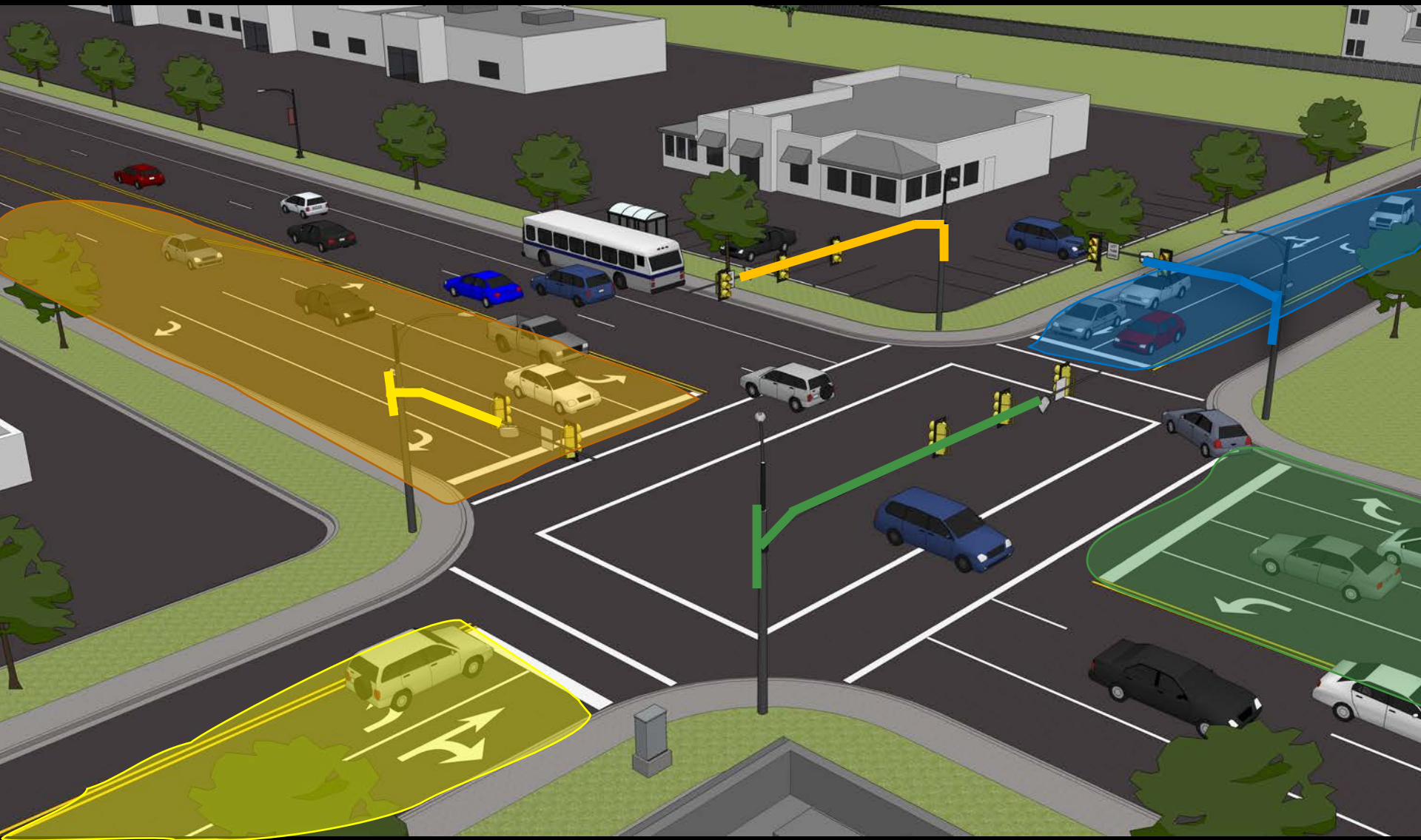
PRESS TOGGLE FOR DETECTORS 33-64

All the stuff Int Ex

Documents In Detail Application... bicycle detection an0015_imp... Pilot Project Strategy E... second attempt all

8:14 PM 8/21/2013





Design

A

Target
Detection Area



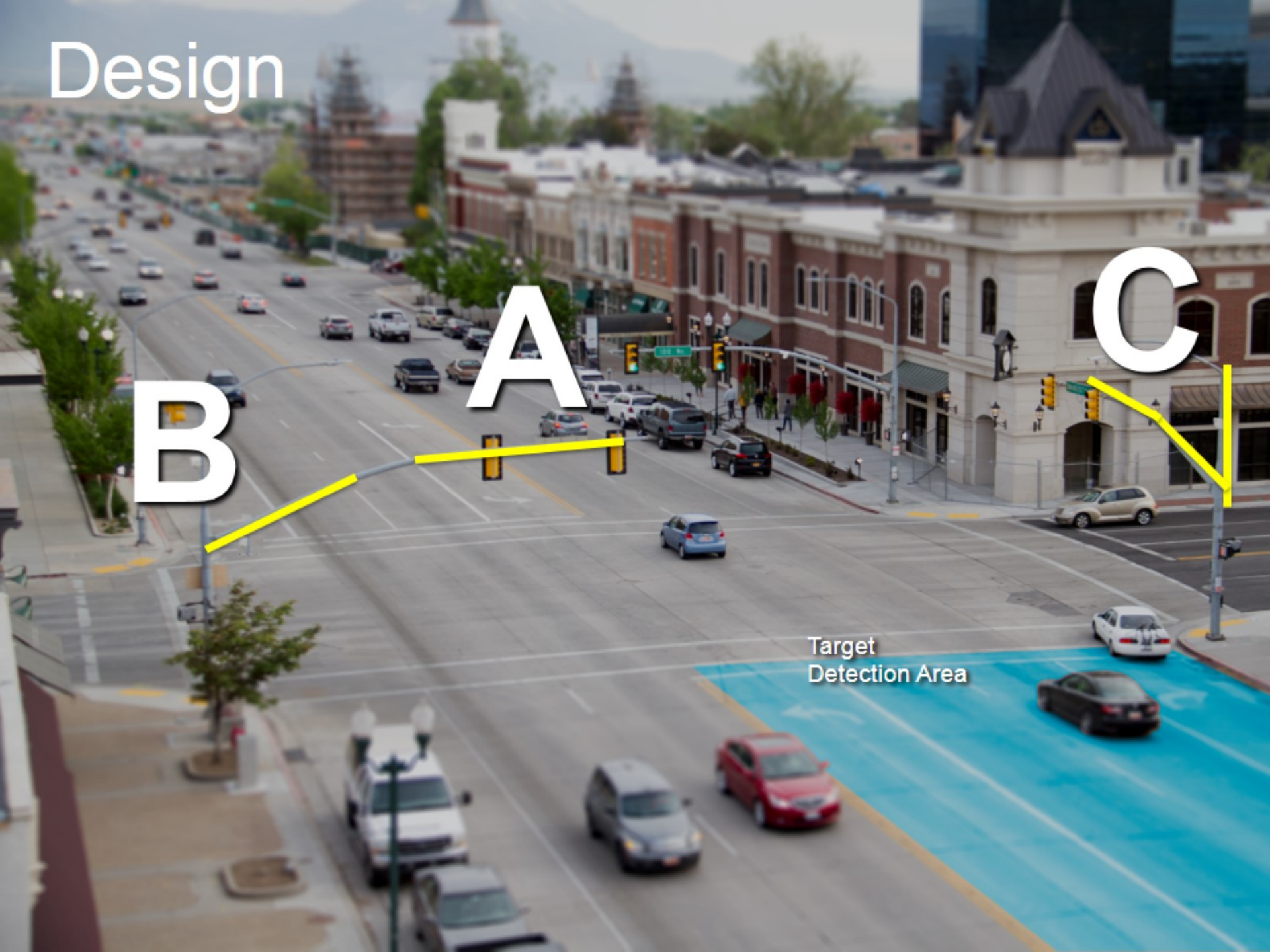
Design

A
B

Target
Detection Area



Design



B

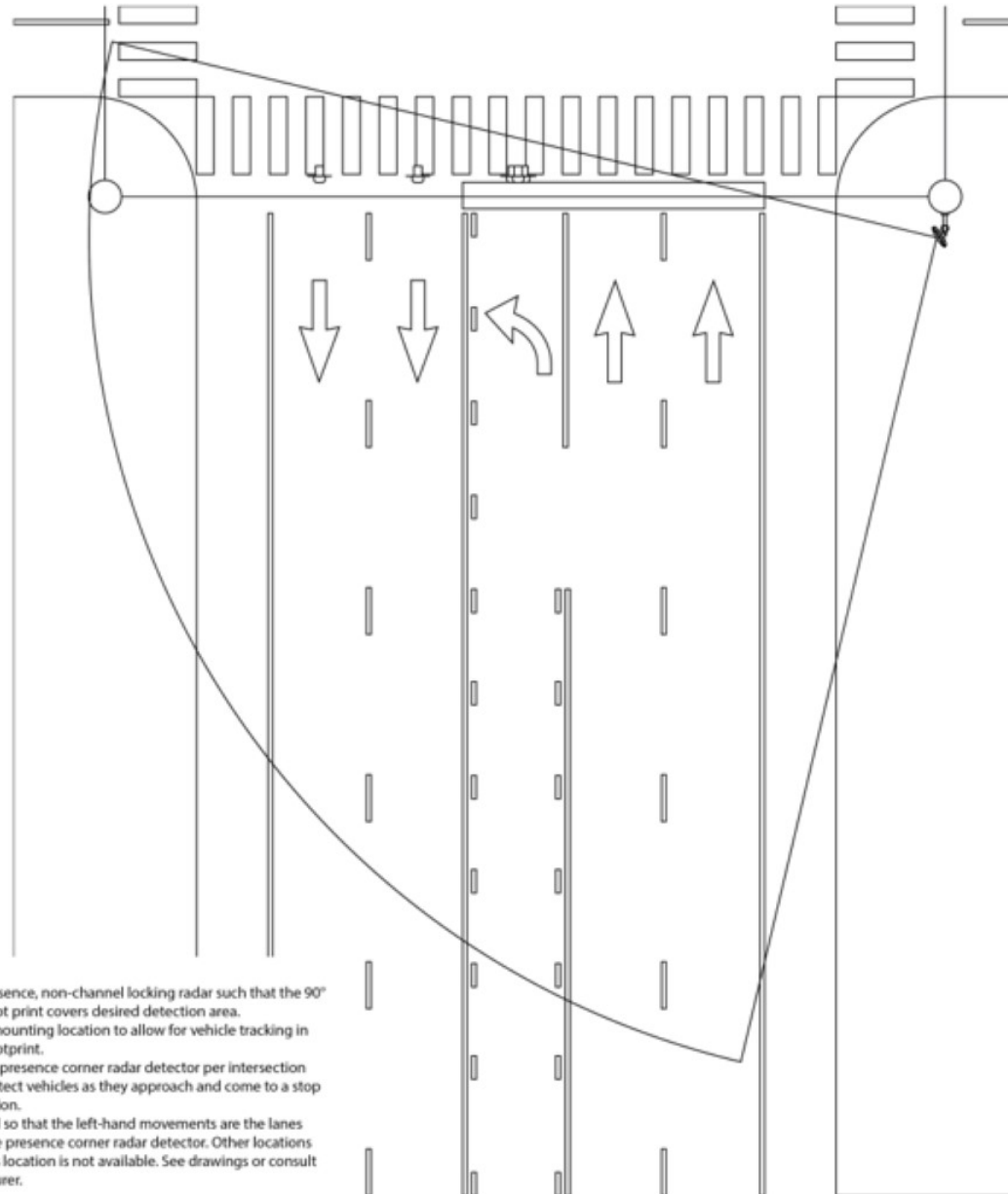
A

C

Target
Detection Area

SmartSensor Matrix

Span Wire Installation Details (location 2)

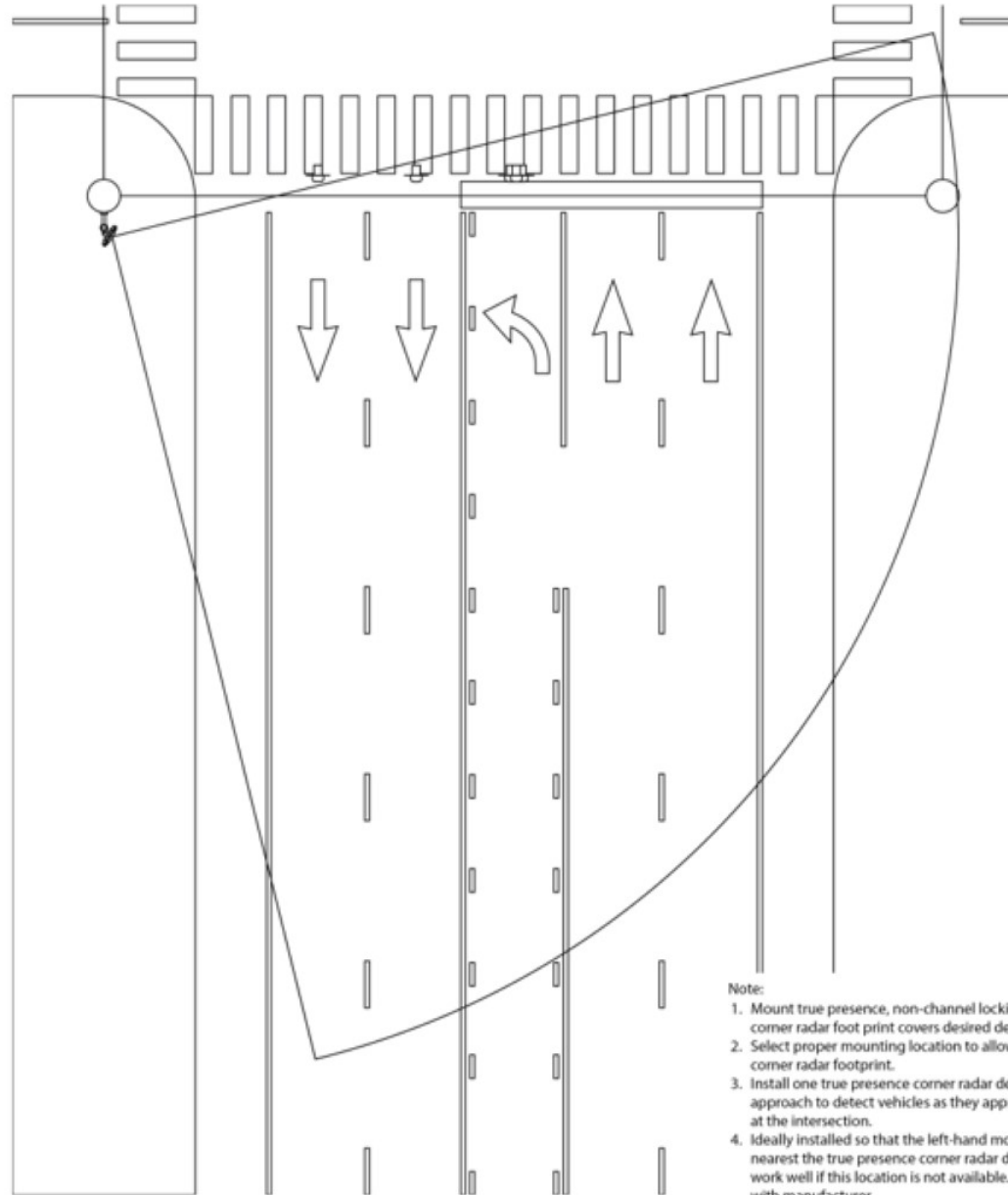


Note:

1. Mount true presence, non-channel locking radar such that the 90° corner radar foot print covers desired detection area.
2. Select proper mounting location to allow for vehicle tracking in corner radar footprint.
3. Install one true presence corner radar detector per intersection approach to detect vehicles as they approach and come to a stop at the intersection.
4. Ideally installed so that the left-hand movements are the lanes nearest the true presence corner radar detector. Other locations work well if this location is not available. See drawings or consult with manufacturer.

SmartSensor Matrix

Span Wire Installation Details (location 1)

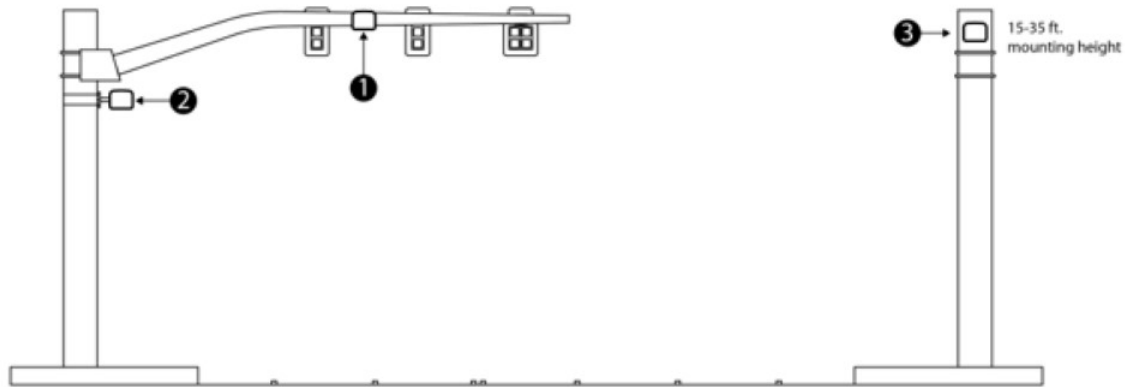


Note:

1. Mount true presence, non-channel locking radar such that the 90° corner radar foot print covers desired detection area.
2. Select proper mounting location to allow for vehicle tracking in corner radar footprint.
3. Install one true presence corner radar detector per intersection approach to detect vehicles as they approach and come to a stop at the intersection.
4. Ideally installed so that the left-hand movements are the lanes nearest the true presence corner radar detector. Other locations work well if this location is not available. See drawings or consult with manufacturer.

SmartSensor Matrix

Mast Arm Installation Details



Preferred Mounting Locations

POLE #	POLE TYPE	HEIGHT	MATERIAL
1	MAST	21.5'	STEEL
2	PEDESTAL	10'	ALUMINUM
3	PEDESTAL	10'	ALUMINUM
4	MAST	21.5'	STEEL
5	MAST	21.5'	STEEL
6	MAST	21.5'	STEEL

INVISTA SARL
T.P.*0703100004
D.R. D-20120228-0010899

ES SHOWN WERE OBTAINED FROM CONSTRUCTION PLANS:
 DRIVE EAST, HEWLETT PACKARD
 06-05-1999
 L5 VILLAGE, COMA, NO. C685-1
 09-27-1999
 L5 CENTRE, COMA, NO. C116-7
 06-03-2000
 NOT BEEN VERIFIED.

EXISTING TRAFFIC SIGNAL INSTALLATION AND MAINTENANCE
IN THE STATE OF DELAWARE, DEPARTMENT OF TRANSPORTATION,
VILLAGE L.C.C. AT INTERSECTION OF CENTERVILLE ROAD AND
RECORDED IN NEW CASTLE COUNTY DATED JUNE 21, 2000. TRAFFIC
CONTACT PROPERTY OWNER PRIOR TO CONSTRUCTION.

	Back	03-1
	Front	96"x18"

MINIMUM DETECTION ZONE

PRESENCE LOOP/ZONE

- Old System loop. Replaced by Wavetronix system loop

- System loop placement using Wavetronix

CENTERVILLE ROAD LLC
T.P.#0703100015
D.R. D-20061004-0094738

CABLE TYPE SCHEDULE			
TYPE	LENGTH	B/E/D	AMOUNT AND TYPE OF CABLE/WIRE
GALV.	105'	T	NEW 1/12"/#8 U.L.W/ GROUND 11#8 BSC
GALV.	50'	T	NEW 1/12"/#8 U.L.W/ GROUND 11#8 BSC
PVC	5'	T	NEW 1/14"/#12 1/15"/#14 1/16"/#16 1/31# BSC 1/112 CMT SM
PVC	60'	T	NEW 1/14"/#12 1/15"/#14 1/16"/#16 1/31# BSC 1/112 CMT SM
PVC	35'	T	NEW 1/14"/#12 1/15"/#14 1/16# BSC
PVC	20'	T	NEW 1/14"/#12 1/15"/#14 1/16# BSC
PVC	30'	T	NEW 1/14"/#12 1/15"/#14 1/16# BSC
PVC	5'	T	NEW 1/14"/#12 1/15"/#14 1/16# BSC
GALV.	10'	T	NEW 1/14"/#12 1/15"/#14 1/16# BSC
PVC	30'	T	NEW 1/15"/#14 1/16# BSC
HDPE	95'	B	NEW 1/112 CMT SM
PVC	300'	T	NEW 1/112 CMT SM
GALV.	5'	-	EMPTY
GALV.	130'	-	NEW 1/14"/#12 1/15"/#14 1/16"/#16 1/31# BSC
GALV.	115'	-	NEW 1/14"/#12 1/15"/#14 1/16"/#16 1/31# BSC
GALV.	30'	-	NEW 1/14"/#12 1/15"/#14 1/16# BSC
GALV.	175'	-	EMPTY
GALV.	95'	-	EMPTY
GALV.	48'	-	NEW 1/14"/#12 1/15"/#14 1/16"/#16 1/31# BSC
GALV.	72'	-	NEW 1/14"/#12 1/15"/#14 1/16"/#16 1/31# BSC
GALV.	170'	-	NEW 1/112 CMT SM
GALV.	180'	-	NEW 1/112 CMT SM
GALV.	480'	-	NEW 1/112 CMT SM
GALV.	5'	-	NEW 1/112 CMT SM
PVC	20'	-	NEW 1/15"/#14

PAVEMENT MARKINGS LEGEND	
SYMBOL	ITEM
(A)	24" SOLID WHITE ALKYLID THERMOPLASTIC PAVEMENT STRIPING
(B)	16" SOLID WHITE ALKYLID THERMOPLASTIC PAVEMENT STRIPING
(C)	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
(D)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
(E)	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2" LINE & 6" GAP
(F)	WHITE ALKYLID THERMOPLASTIC SYMBOLS

ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	810 S
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	845

43

•

AB	ABANDON
	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
	EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUNS)
	PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUNS)
	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
	EXISTING MAST ARM IDENTIFIER (# OF MAST ARMS)
	PROPOSED MAST ARM IDENTIFIER (# OF MAST ARMS)

	EXISTING
JUNCTION WELL	
LOOP DETECTOR, TYPE 1	
LOOP DETECTOR, TYPE 2	
LUMINAIRE	
MAST ARM	
MICROWAVE DETECTION	
OPTICOM RECEIVER	
OVERHEAD SIGNING	
PEDESTRIAN POLE/BASE	
PEDESTRIAN PUSHBUTTON	
PEDESTRIAN SIGNAL HEAD	
RIGHT-OF-WAY	
SERVICE PEDESTAL	
SIGNAL CASSETTE	
SIGNAL HEAD	
SIGNAL POLE/BASE	
SPAN INSULATOR	
SPAN WIRE	
UTILITY POLE	
WIND DETECTION	

GENERAL SIGN

2. POLE BASES, CABINET BASES AND CONDUIT JUNCTION BOXES SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS TO BE ASSIGNED.
3. PROPOSED POLE BASES SUPPORTING POLES WITHOUT LAMINATED JOINTS SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS TO BE ASSIGNED. IN ACCORDANCE WITH CURRENT AND BEST PRACTICES, THE LANDING AND THE BRACKET SHALL BE INSTALLED TO BE 4 INCHES ABOVE THE LANDING AREA/BRACKET AREA. REACH DISTANCE IS TO INCLUDE FROM THE LANDING AREA TO THE BRACKET AREA. THE BRACKET SHALL BE INSTALLED WITH BRACKETS NOT LESS THAN 7 FEET OR MORE THAN 10 FEET.
4. ALL GROUNDING CONDUIT (GIC) SHALL BE PEWED AND WITH APPROVED COUPLINGS. SET, BOLTED AND COMPACTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS TO BE ASSIGNED.
5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN TO BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE UTILITY EYES TO PROVE TO THE OWNER. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BE THE CONTRACTOR SHALL NOTIFY DEDUCT IMMEDIATELY.
6. CONTRACTOR SHALL COORDINATE WITH TRAFFIC SIGNAL CONTRACTOR AND TRAFFIC SIGNAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE UTILITY EYES TO PROVE TO THE OWNER. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BE THE CONTRACTOR SHALL NOTIFY DEDUCT IMMEDIATELY.

APPROVED FOR INSTALLATION
CHIEF TRAFFIC ENGINEER

DATE:

RECOMMENDED

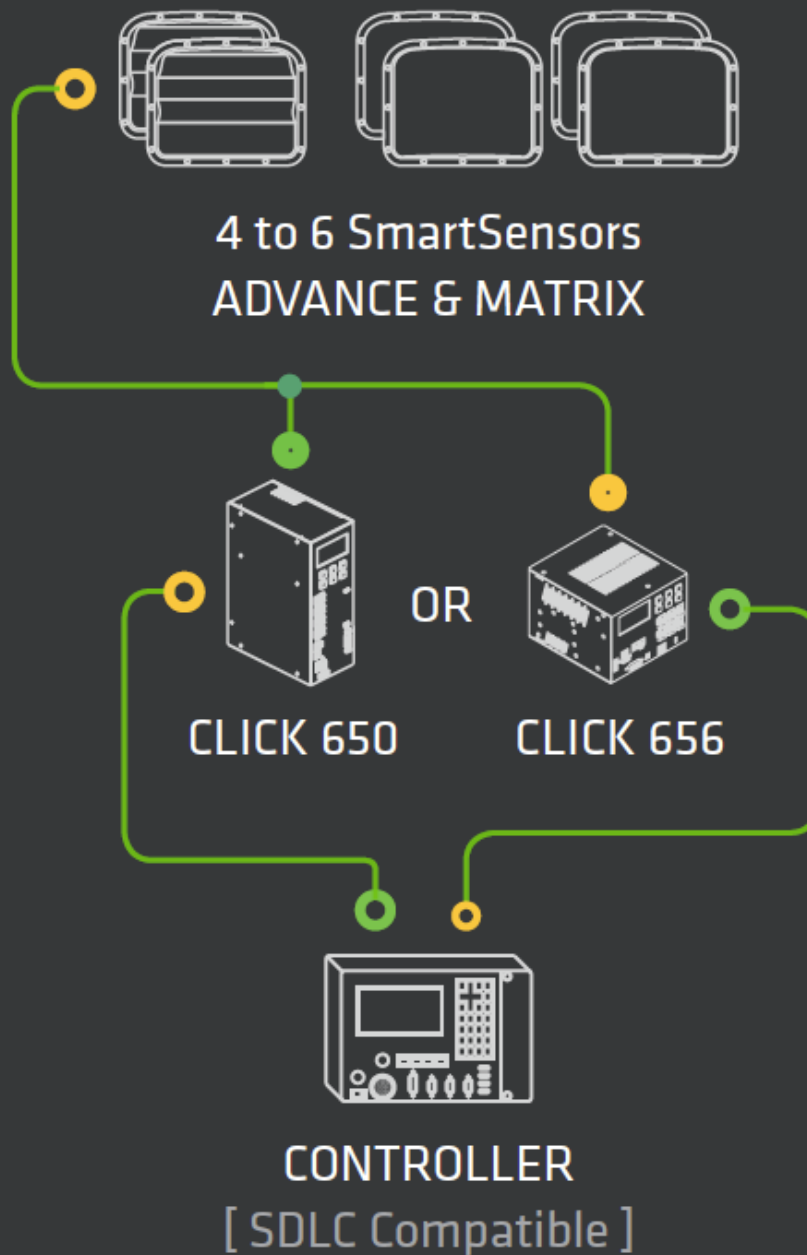
DATE:

RECOMMENDED

DATE:

APPROVED TRAFFIC ENGINEER

DATE:





OP-FILE
2313

NEMA
200

NEMA
200

GRN IN
OUT

NEMA
200

NEMA
200

NEMA
200

NEMA
200

NEMA
200

IN-FILE
5969

tsc
DC
LATOR
ON
42

tsc
DC
LATOR
ON
2

WAVETRONIX
Click 656
CABINET INTERFACE DEVICE

CONTROL
PW OK TO RD
Serial
Port 1 SDLC
TX RX
Status

DATA
1
2
3
4
5
6

Serial 1-6
Ethernet
Status

WAVETRONIX
Click 656
CABINET INTERFACE DEVICE

CONTROL
PW OK TO RD
Serial
Port 1 SDLC
TX RX
Status

DATA
1
2
3
4
5
6

Serial 1-6
Ethernet
Status



Thank You!

