

GOVERNING SPECIFICATIONS:  
 THE MOST CURRENT EDITION OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION "STANDARD  
 SPECIFICATIONS" AND "SUPPLEMENTAL SPECIFICATIONS AND  
 RECURRING SPECIAL PROVISIONS" HEREIN SHALL GOVERN.  
 WHERE APPLICABLE.

# CITY OF WILMINGTON, NORTH CAROLINA

## PROJECT PLANS FOR THE CONSTRUCTION OF RED TRAFFIC LIGHT MONITORING FACILITIES AT THE INTERSECTION OF S. 3RD ST AT WOOSTER ST / US 76



### SHEET INDEX

SHEET NO.	SITE ID	DESCRIPTION
1		COVER SHEET
2	WI504	INTERSECTION PLAN - SB S. 3RD ST AT WOOSTER ST / US 76
3-4		ATS STANDARD DETAILS



7681 E. GRAY RD  
 SCOTTSDALE, AZ 85260 USA  
 TEL: (480)443-7000 FAX: (480)607-0901  
 WWW.ATSOL.COM

**COVER SHEET**  
 S. 3RD ST AT WOOSTER ST / US 76  
 Wilmington, NC

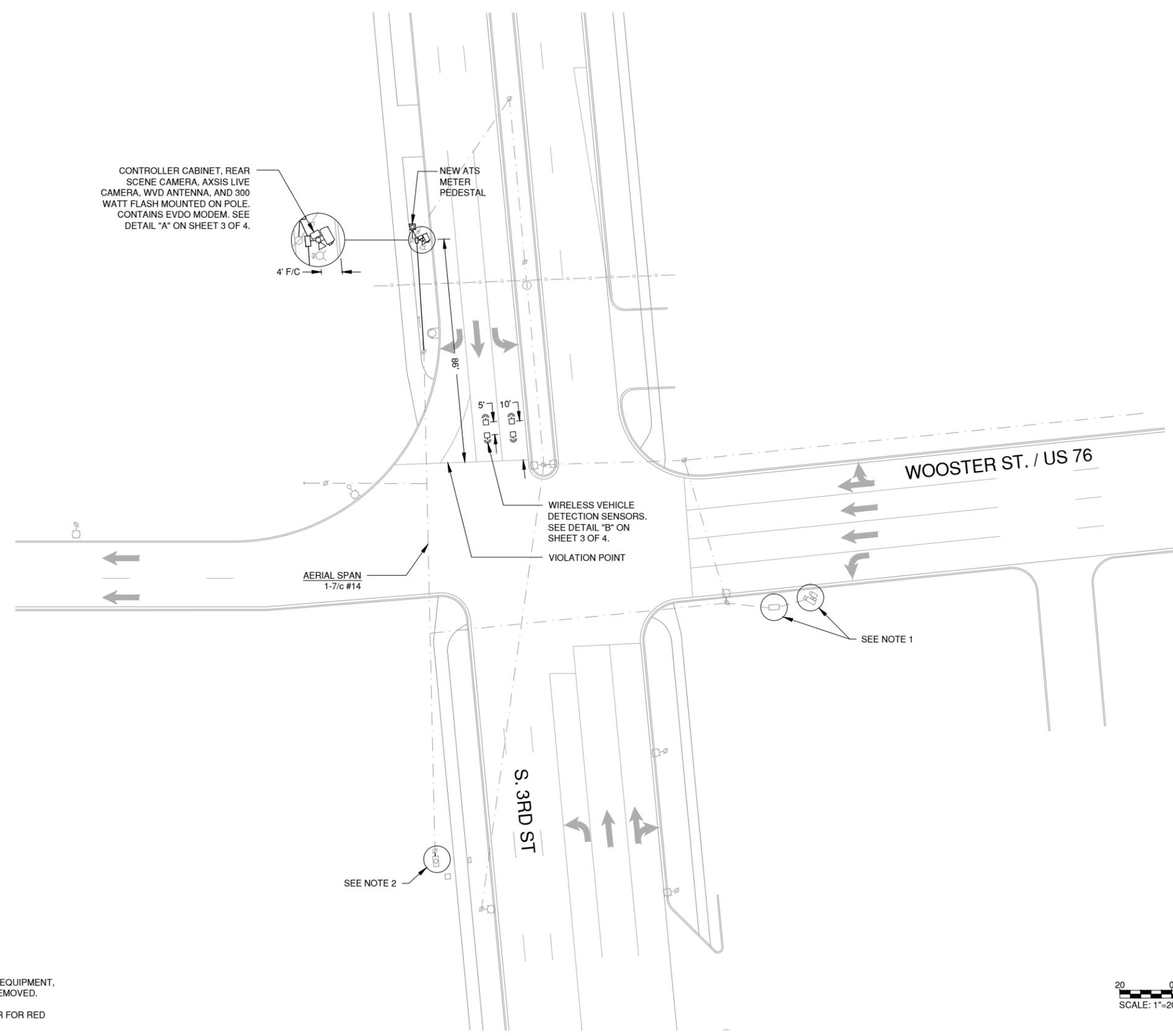
NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

**1ST SUBMITTAL**  
 DESIGNED BY: SM  
 DATE: 08-03-10  
 APPROVED BY:  
 APPROVAL DATE:

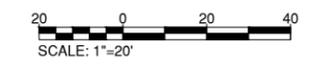
JOB NUMBER  
**1259**  
 SITE ID(S)  
 WI504

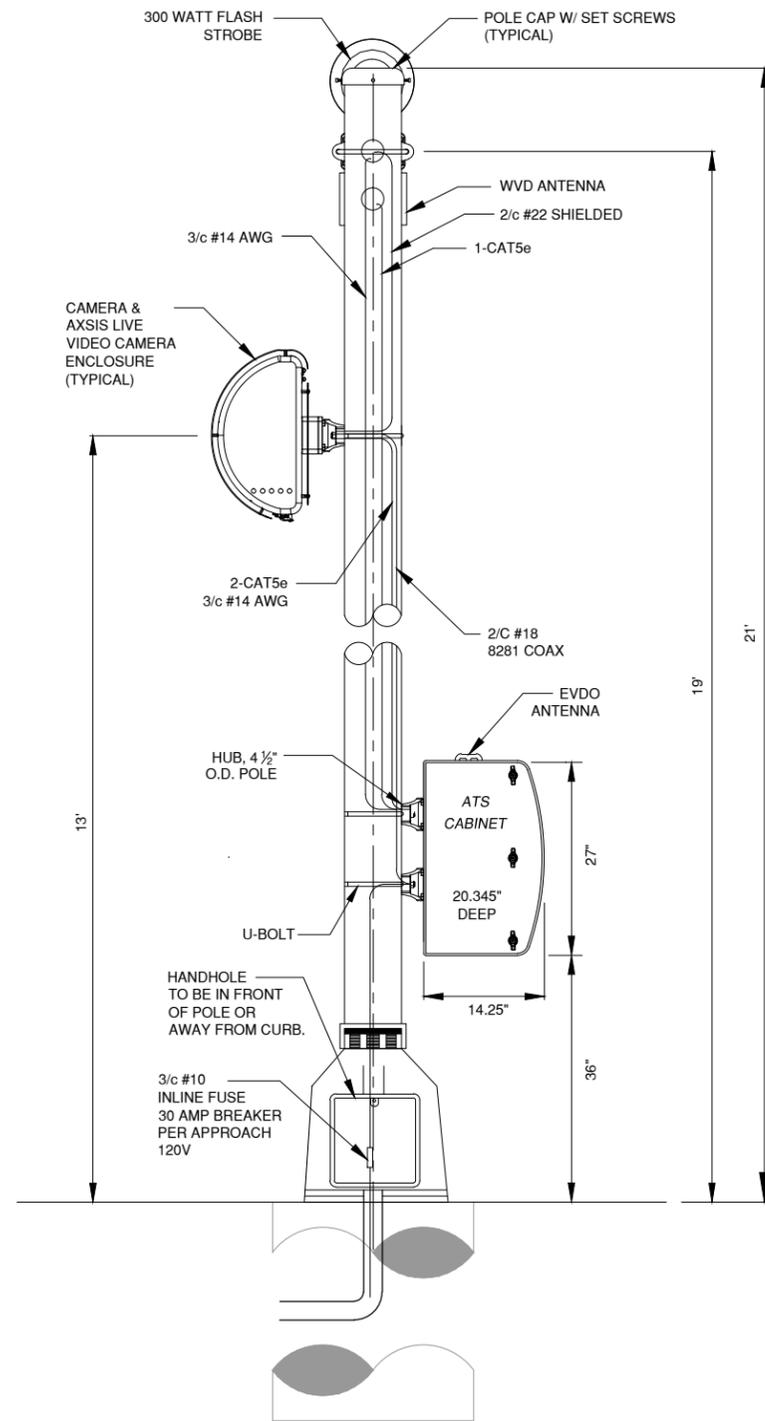
SHEET  
 NUMBER  
**1**  
 OF 4 SHEETS

LEGEND	
	CONDUIT
	DIRECTIONAL BORE
	REAR MONITOR CAMERA ON ATS POLE
	WIRELESS VEHICLE DETECTION SENSORS
	PULL/ JUNCTION BOX
	PHOTO ENFORCEMENT SIGN
	EXISTING CONDUIT

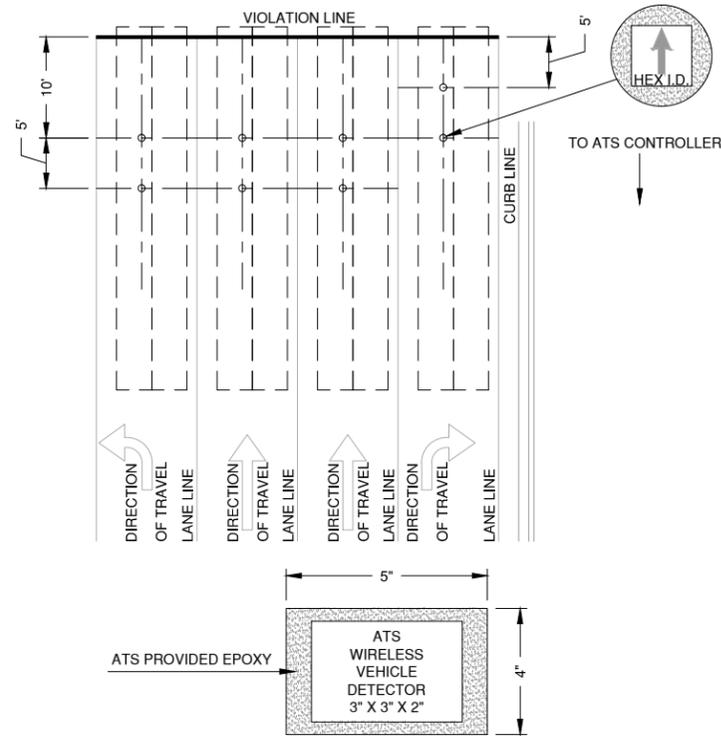


- NOTES:
1. CONTRACTOR SHALL REMOVE POLE, EQUIPMENT, AND CABLING. FOUNDATION TO BE REMOVED.
  2. TERMINATE AT TRAFFIC CONTROLLER FOR RED AND AMBER PHASE.





**DETAIL "A"**  
**20' - 4.5" O.D. SCHEDULE 80**  
**(6061 T6 ALUMINUM ALLOY)**



**DETAIL "B"**  
**WVD VEHICLE DETECTION**  
**SENSOR DETAIL**

**ATS WIRELESS VEHICLE DETECTORS (WVD) INSTALLATION:**

TRAILING WVD'S 10' FROM VIOLATION LINE, MIDDLE OF THE LANE.  
 LEADING WVD'S 15' FROM VIOLATION LINE, MIDDLE OF THE LANE.

\* DEDICATED RIGHT TURNS ONLY -  
 TRAILING WVD'S 5' FROM VIOLATION LINE, MIDDLE OF THE LANE.  
 LEADING WVD'S 10' FROM VIOLATION LINE, MIDDLE OF THE LANE.

1. MEASURE & MARK DEAD CENTER OF EACH LANE FROM VIOLATION LINE. (SEE DETAIL "B")
2. MEASURE AND MARK 10', 15' & 5' FOR DEDICATED RIGHT TURN LANES FROM VIOLATION LINE. (SEE DETAIL "B")
3. 4" CORE DRILL CENTER OF MARKS @ A DEPTH PF 2.25". JACK HAMMER/CHISLE OUT ASPHALT AS REQUIRED. (SEE IMAGES 1-4 ON SHEET 4 OF 4.)
4. RECORD HEX ID FOR EACH WVD IN EXACT LOCATION PER LANE. RECORD (RED HEX ID INPUT) ON THE DRAWING TO THE LEFT. (SEE IMAGES 5 ON SHEET 4 OF 4.)
5. VACUUM, WASH AND HEAT HOLE PRIOR TO EPOXY FILL. (SEE IMAGE 6 ON SHEET 4 OF 4.)
6. USE MANUFACTURERS EPOXY FILLER ONLY (TO BE SUPPLIED BY ATS).
  - A. FILL BOTTOM OF 4" CORE DRILLER HOLE #1 / 8" WITH EPOXY. (SEE IMAGE 7 ON SHEET 4 OF 4.)
  - B. INSERT WVD WITH ORIENTATION ARROW IN THE SAME DIRECTION AS VEHICLE TRAVEL. (SEE IMAGES 8 & 9 ON SHEET 4 OF 4.)
  - C. STEP BACK AND VIEW ARROW ORIENTATION IS PARALLEL TO DIVIDER STRIPING.
  - D. INSURE YOU HAVE HEX ID RECORDED. (SEE IMAGE 5 ON SHEET 4 OF 4.)
  - E. FILL HOLE WITH REMAINING EPOXY TO ROAD SURFACE LEVEL. (SEE IMAGES 10, 11 ON SHEET 4 OF 4.)

NOTE: THIS EPOXY WILL CURE "HARD" IN APPROXIMATELY 3 MINUTES.  
 7. ATS WVD SHALL NOT BE PLACED SO AS TO DAMAGE VEHICLE DETECTION LOOP WIRES.

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

**1ST SUBMITTAL**  
 DESIGNED BY: SM  
 DATE: 08-03-10  
 APPROVED BY:  
 APPROVAL DATE:

JOB NUMBER  
**1259**  
 SITE ID(S)  
 W1504

SHEET NUMBER  
**3**  
 OF 4 SHEETS



IMAGE #1



IMAGE #2



IMAGE #3



IMAGE #4



IMAGE #5



IMAGE #6



IMAGE #7



IMAGE #8

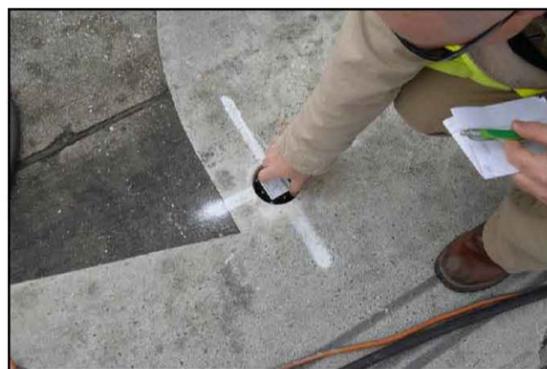


IMAGE #9



IMAGE #10

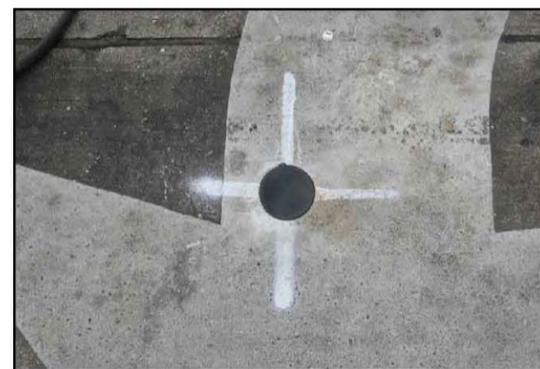


IMAGE #11

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION