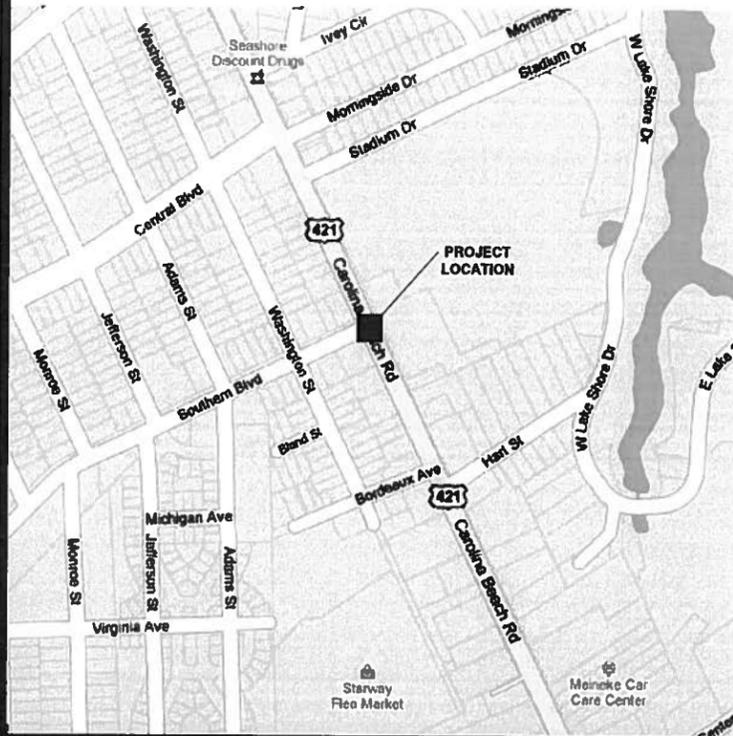


CITY OF WILMINGTON, NORTH CAROLINA

PROJECT PLANS FOR THE CONSTRUCTION OF RED TRAFFIC LIGHT MONITORING FACILITIES AT THE INTERSECTION OF CAROLINA BEACH RD AT SOUTHERN BLVD



SHEET INDEX

SHEET NO.	SITE ID	DESCRIPTION
1		TITLE SHEET
2	W102	INTERSECTION PLAN - NB CAROLINA BEACH RD AT SOUTHERN BLVD
3-4		ATS STANDARD DETAILS



ATS American Traffic Solutions
RED LIGHT PHOTO ENFORCEMENT PROGRAM

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

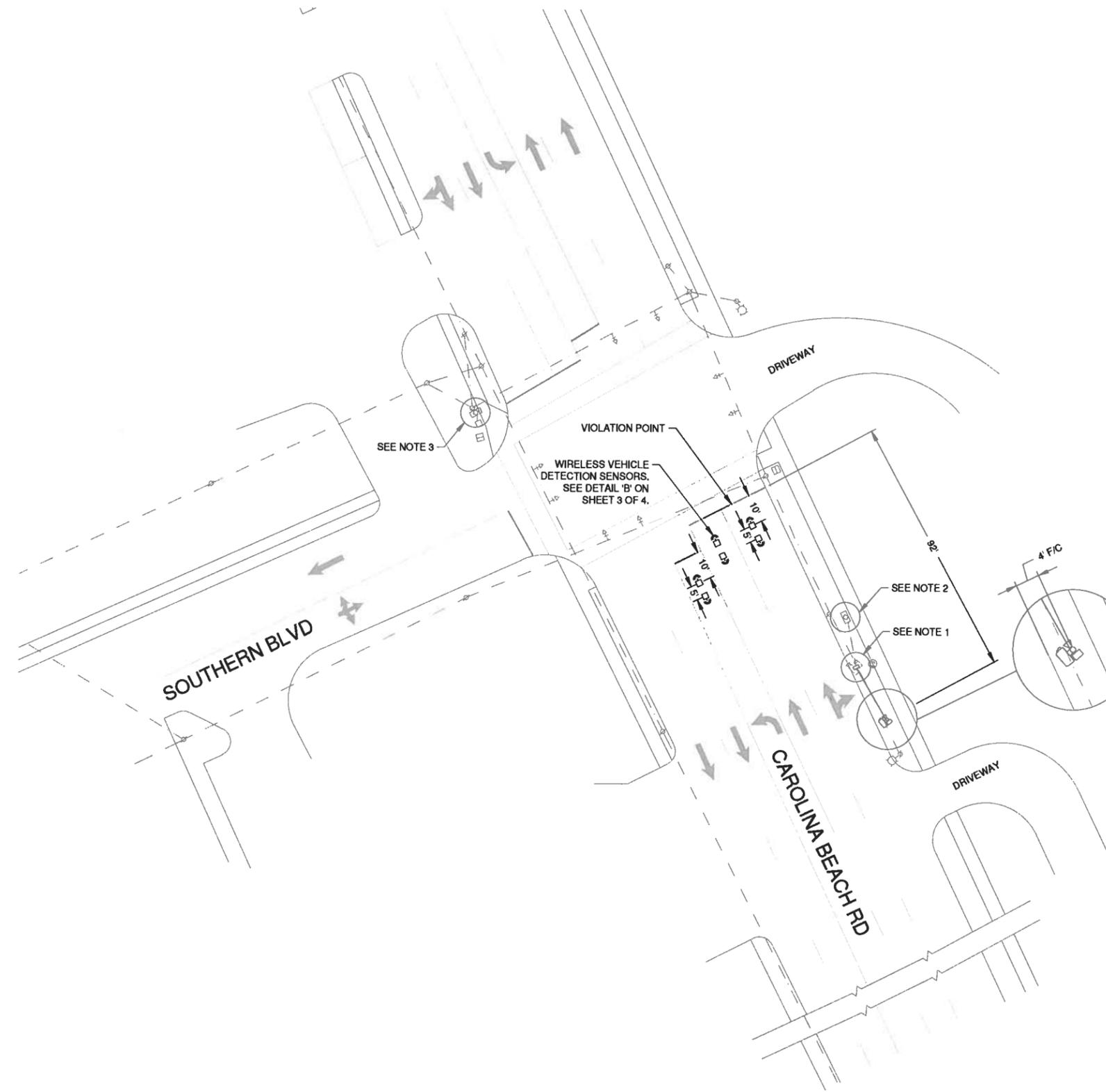
COVERSHEET
CAROLINA BEACH RD AT SOUTHERN BLVD
Wilmington, NC

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

1ST SUBMITTAL
DESIGNED BY: DB
DATE: 5-14-10
APPROVED BY:
APPROVAL DATE:

JOB NUMBER
1259
SITE ID(S)
W102

SHEET NUMBER
1
OF 4 SHEETS



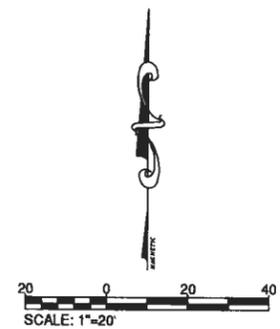
LEGEND	
	CONDUIT
	DIRECTIONAL BORE
	REAR MONITOR CAMERA ON ATS POLE
	WIRELESS VEHICLE DETECTION SENSORS
	PULL/ JUNCTION BOX
	PHOTO ENFORCEMENT SIGN
	EXISTING CONDUIT

NOTES:

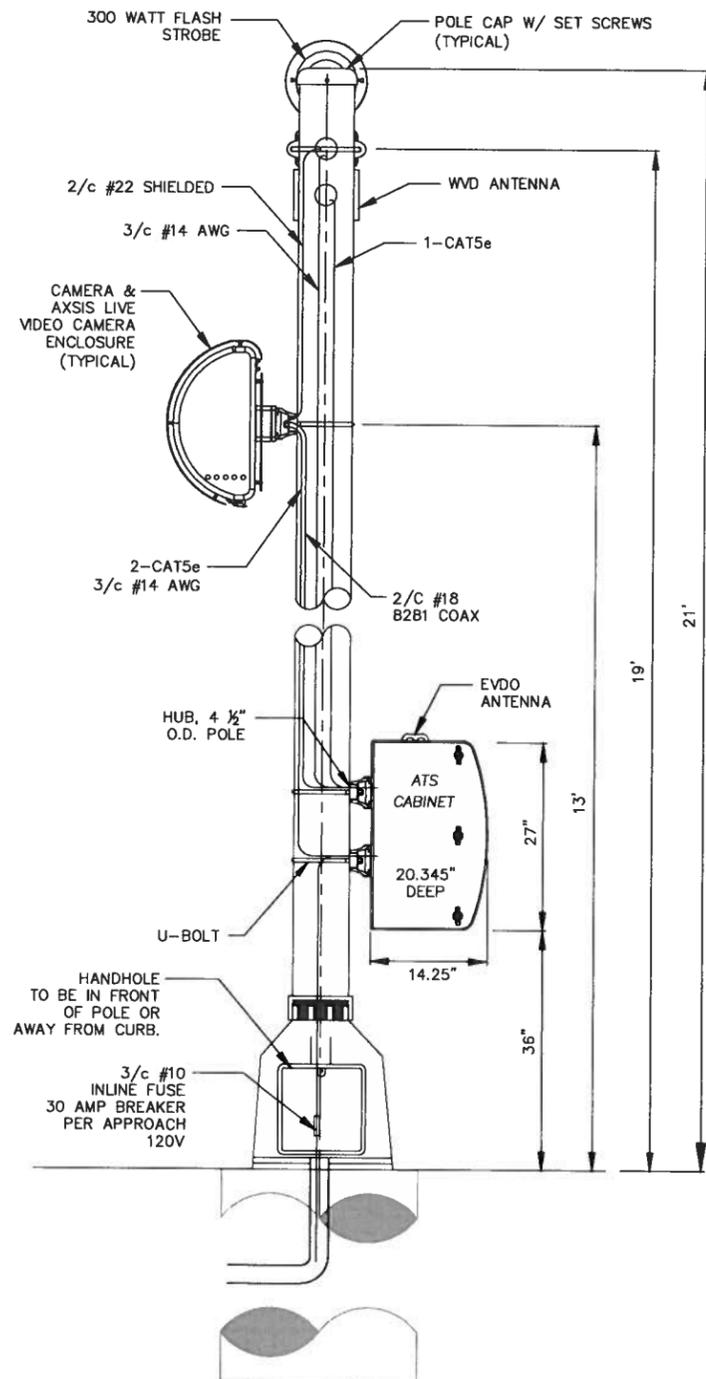
1. CONTRACTOR SHALL REMOVE POLE, EQUIPMENT, AND CABLING. FOUNDATION TO BE REMOVED AND NEW ATS PULL BOX TO BE INSTALLED.
2. TERMINATE AT EXISTING TRAFFIC PAX CABINET FOR RED AND AMBER PHASE AND POWER.
3. CONTRACTOR SHALL REPLACE EXISTING TRAFFIC PAX PHASE DETECTION WITH APPROVED CR9350-ACA PHASE DETECTION.



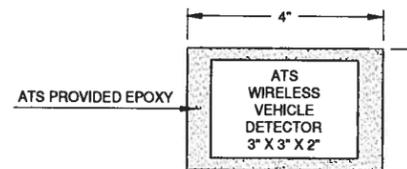
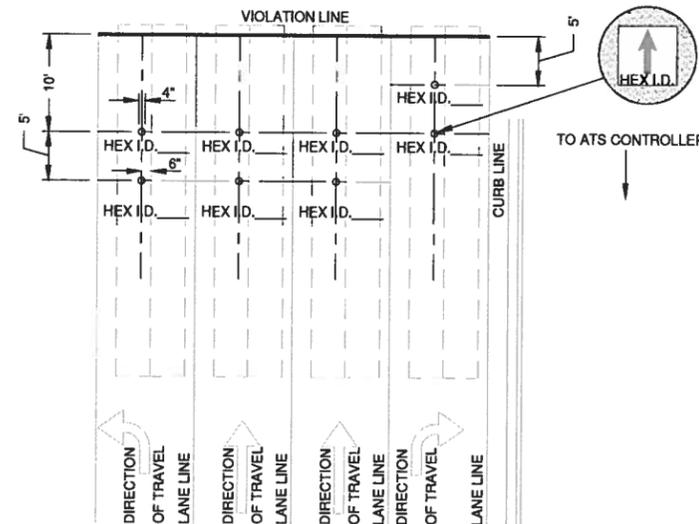
CONTROLLER CABINET, REAR SCENE CAMERA, AXIS LIVE CAMERA, WVD ANTENNA, AND 300 WATT FLASH MOUNTED ON POLE. CONTAINS EVDO MODEM. SEE DETAIL "A" ON SHEET 3 OF 4.



NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION



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



DETAIL "B"
WIRELESS 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 IMAGE 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

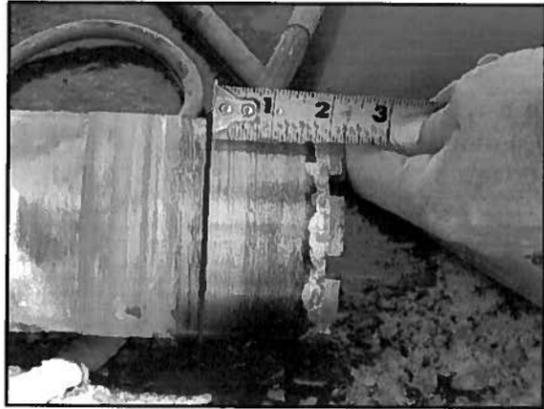


IMAGE #1

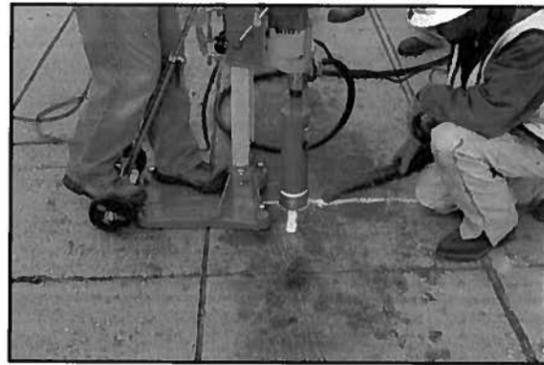


IMAGE #2

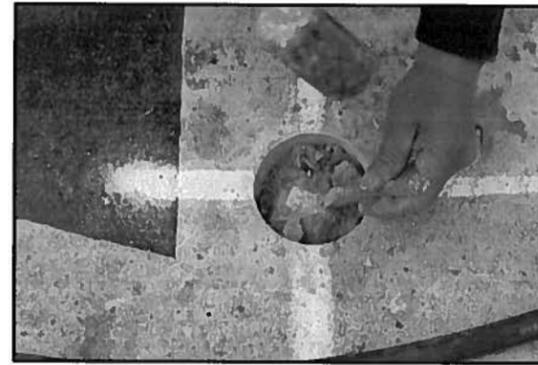


IMAGE #3

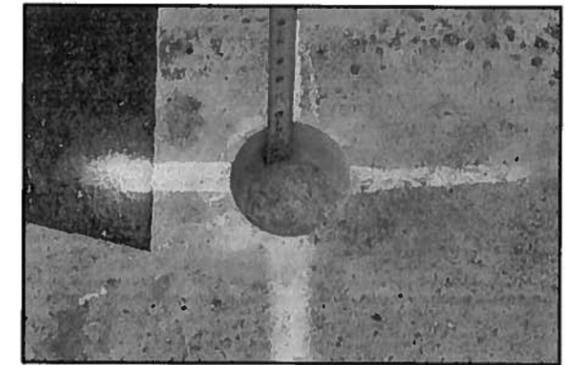


IMAGE #4



IMAGE #5

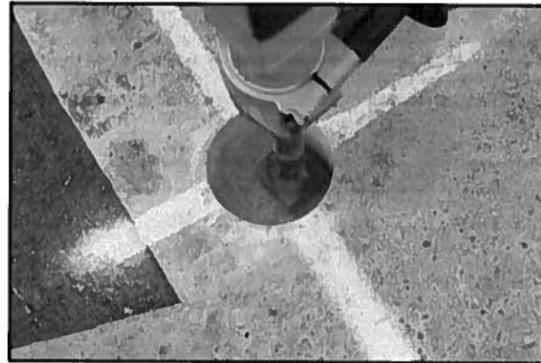


IMAGE #6

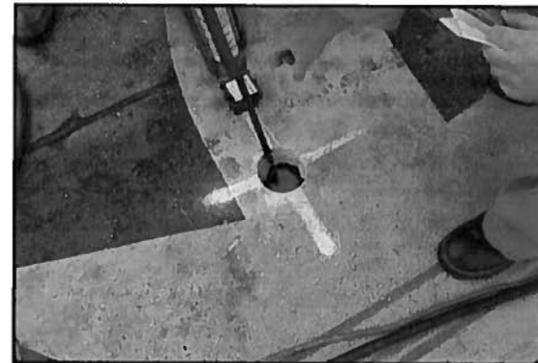


IMAGE #7

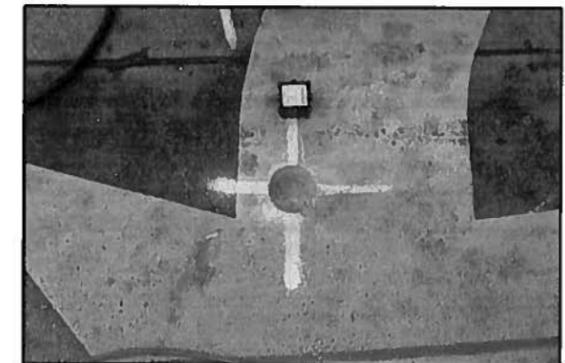


IMAGE #8



IMAGE #9

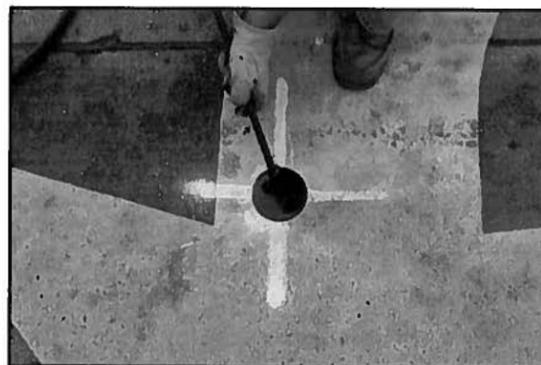


IMAGE #10

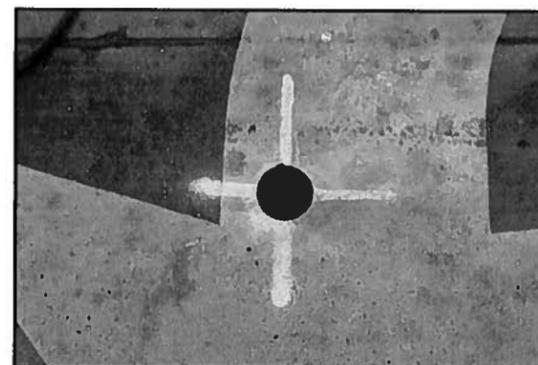


IMAGE #11

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION