

TABLE 1 - MICROWAVE DETECTOR LOCATIONS FOR I-74 PEORIA ITS

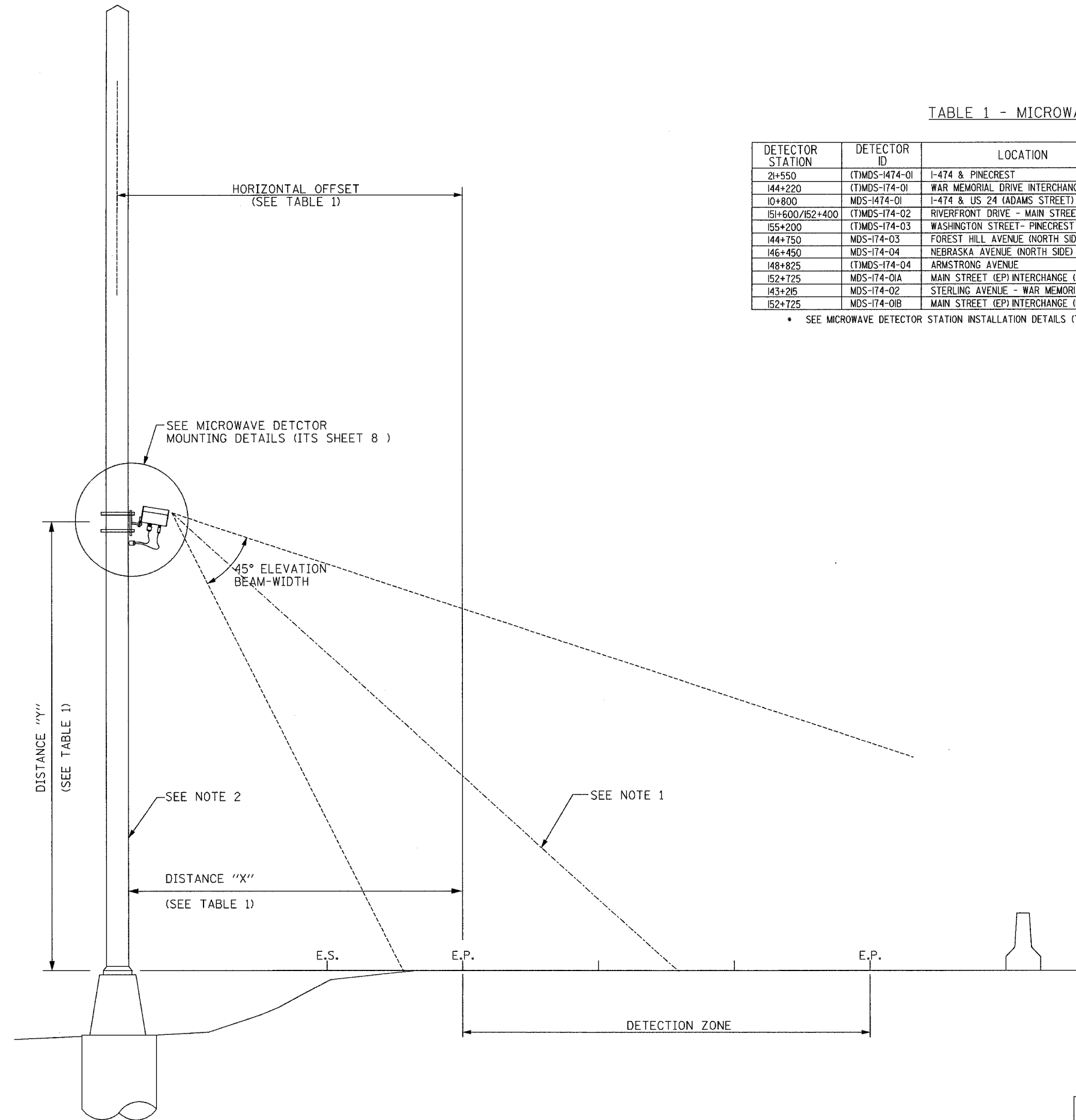
DETECTOR STATION	DETECTOR ID	LOCATION	DETECTOR TYPE	DETECTOR COVERAGE	COMMENTS	No OF LANES	SETBACK* "X"	HEIGHT* "Y"
2+550	(T)MDS-1474-01	I-474 & PINECREST	TEMPORARY	MAINLINE	TEMPORARY WOOD POLE	4	50' (15 m)	25' (8 m)
144+220	(T)MDS-174-01	WAR MEMORIAL DRIVE INTERCHANGE (EAST SIDE)	TEMPORARY	MAINLINE	TEMPORARY WOOD POLE	5	20' (6 m)	17' (5 m)
10+800	MDS-1474-01	I-474 & US 24 (ADAMS STREET)	PERMANENT	MAINLINE	COMBINATION RTMS/CCTV POLE	4	20' (6 m)	17' (5 m)
151+600/152+400	(T)MDS-174-02	RIVERFRONT DRIVE - MAIN STREET (EP)	TEMPORARY	MAINLINE	TEMPORARY WOOD POLE	4/6	20' (6 m)	17' (5 m)
155+200	(T)MDS-174-03	WASHINGTON STREET- PINECREST DRIVE	TEMPORARY	MAINLINE	TEMPORARY WOOD POLE	4	20' (6 m)	17' (5 m)
144+750	MDS-174-03	FOREST HILL AVENUE (NORTH SIDE)	PERMANENT	MAINLINE	PERMANENT POLE	6	20' (6 m)	17' (5 m)
146+450	MDS-174-04	NEBRASKA AVENUE (NORTH SIDE)	PERMANENT	MAINLINE	PERMANENT POLE	6	20' (6 m)	17' (5 m)
148+825	(T)MDS-174-04	ARMSTRONG AVENUE	TEMPORARY	MAINLINE	TEMPORARY WOOD POLE	6	20' (6 m)	17' (5 m)
152+725	MDS-174-01A	MAIN STREET (EP) INTERCHANGE (SOUTH SIDE)	PERMANENT	MAINLINE	PERMANENT POLE	6	20' (6 m)	17' (5 m)
143+215	MDS-174-02	STERLING AVENUE - WAR MEMORIAL DRIVE	PERMANENT	MAINLINE	PERMANENT POLE, 2 DETECTORS	6,1	20' (6 m)	17' (5 m)
152+725	MDS-174-01B	MAIN STREET (EP) INTERCHANGE (NORTH SIDE)	PERMANENT	MAINLINE	PERMANENT POLE	6	20' (6 m)	17' (5 m)

* SEE MICROWAVE DETECTOR STATION INSTALLATION DETAILS (TABLE 2)

TABLE 2 - MICROWAVE DETECTOR INSTALLATION DETAILS

HORIZONTAL OFFSET FT (M)	MOUNTING HEIGHT FT (M)		
	MINIMUM	MAXIMUM	RECOMMENDED
10.0 (3.0)	17.0 (5.2)	20.0 (6.1)	17.0 (5.2)
15.0 (4.6)	17.0 (5.2)	20.0 (6.1)	17.0 (5.2)
20.0 (6.1)	17.0 (5.2)	20.0 (6.1)	17.0 (5.2)
25.0 (7.6)	17.0 (5.2)	25.0 (7.6)	20.0 (6.1)
30.0 (9.1)	23.0 (7.0)	25.0 (7.6)	23.0 (7.0)
35.0 (10.7)	25.0 (7.6)	25.0 (7.6)	25.0 (7.6)
40.0 (12.2)	25.0 (7.6)	25.0 (7.6)	25.0 (7.6)
45.0 (13.7)	25.0 (7.6)	25.0 (7.6)	25.0 (7.6)
50.0 (15.2)	25.0 (7.6)	25.0 (7.6)	25.0 (7.6)

DIMENSIONS REFERENCED FROM THE EDGE OF PAVEMENT.



NOTES:

- DETECTOR UNIT TO BE AIMED AT CENTER OF DETECTION ZONE. WHEN TWO DETECTORS ARE USED IN TANDEM AT A GIVEN LOCATION, DETECTION ZONE SHALL INCLUDE ALL TRAVEL LANES IN A SINGLE DIRECTION NEAREST EACH DETECTOR. WHEN A SINGLE DETECTOR IS USED AT A GIVEN LOCATION, THE DETECTOR ZONE SHALL INCLUDE ALL TRAVEL LANES IN BOTH DIRECTIONS. FINAL SETUP AND CALIBRATION TO BE PERFORMED BY MANUFACTURER'S FIELD REPRESENTATIVE IN CONJUNCTION WITH THE EQUIPMENT INTEGRATOR.
- DETECTOR UNIT MAY BE MOUNTED ON A TEMPORARY WOOD OR PROPOSED STEEL POLE AS INDICATED ON THE PLANS. POLE SHALL BE INSTALLED OUTSIDE OF THE CLEAR ZONE OR SHALL BE PROTECTED FROM TRAFFIC.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ITS PLAN

MICROWAVE DETECTOR
INSTALLATION DETAIL

SCALE
DATE 11/02/04

DRAWN BY MJL
CHECKED BY GFR



TYPICAL MICROWAVE DETECTOR INSTALLATION CROSS SECTION VIEW