

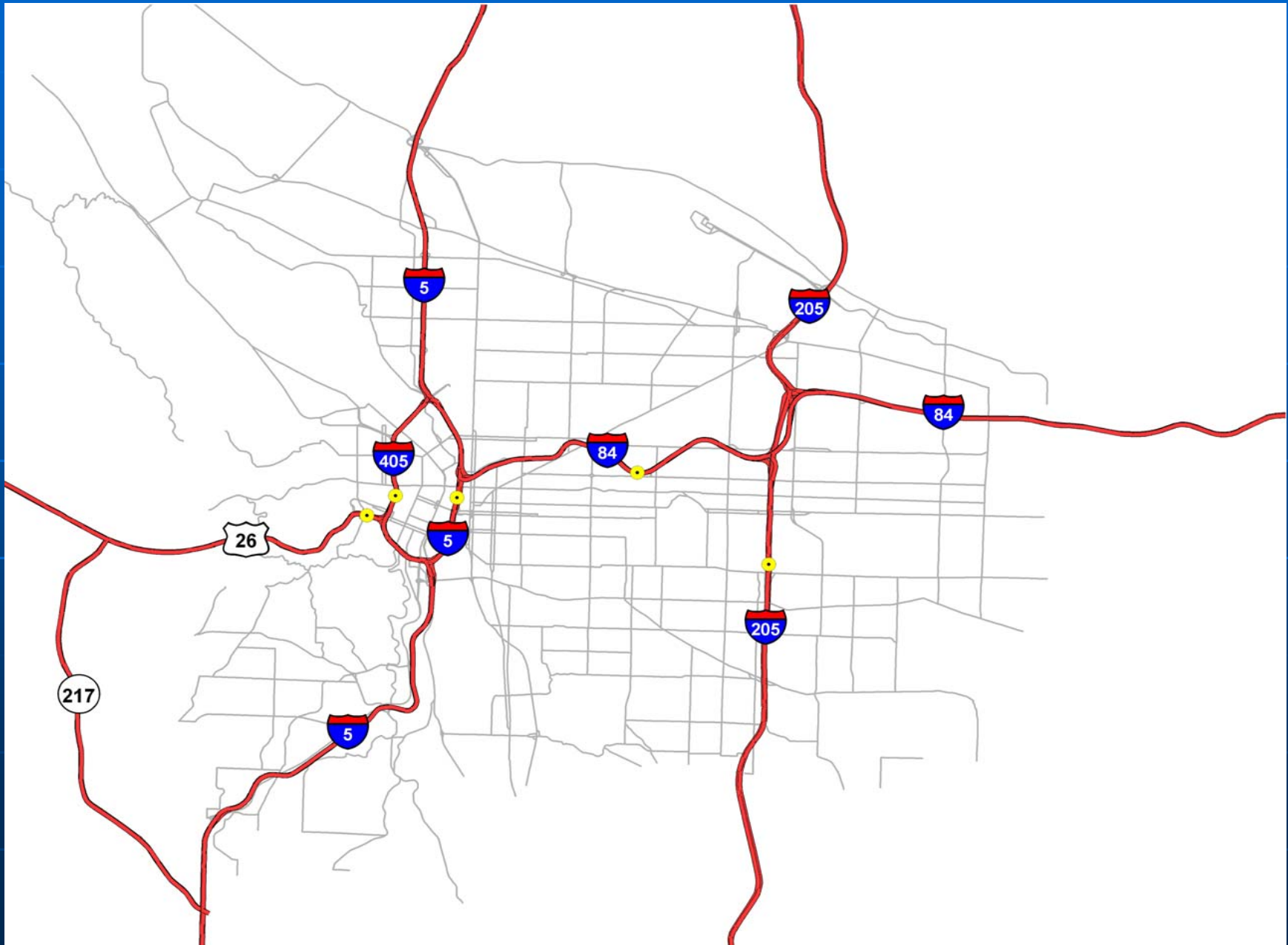
Portland Police Bureau Freeway Mapping Project

Christy Khalifa

Background

- Since 1984, all incidents mapped to single points
 - Useless for crime analysis and mapping
- Information Technology, Traffic, Records, Planning and Support
 - In car video camera
 - ArcGIS used to determine geographic properties of landmarks
 - ITD loaded the data and modified the PPDS programs

Before



ArcMap Method

- Obtaining x,y coordinates for each landmark plotting points on map
- Creating a new shapefile for the point data
- Using spatial joining to create geographic dataset

PPDS New Address Support for Highways/Freeways

- Allows entry of highway/freeways locations in 4 formats:
 - Exit #
 - On/Off Ramps
 - Cross-streets
 - MP to the .5 mile
- Allows inquiry of highway/freeway locations by geography
 - Precinct
 - District
 - Grid
- Designed to allow searches on freeway +/- a number of miles.

PPDS Main Menu

PPDS - POLICE DATA SYSTEM MAIN MENU

7:59 AM 12/12/2006

NAME SEARCH	COURT SCHEDULING	TACTICAL INQUIRY	DRUG COMPLAINT
CASE INQUIRY	VEHICLE SEARCH	GUN SEARCH	INFORMATION & REFERRAL
ADDRESS SEARCH	CAD INQUIRY	PROPERTY ROOM	TRAINING ANNOUNCE
WEBLEDS	PRINTED REPORTS	DETECTIVES SYSTEM	SRMS HISTORIC CASE
LOGOFF	TELEPHONE INQUIRY	COMBAT AUTO THEFT	BUSINESS CONTACT

<===== OFFER A SUGGESTION FOR EPPDS ENHANCEMENT BY EMAIL
<===== REPORT A PPDS PROBLEM OR ASK A QUESTION BY EMAIL

PPB HELP DESK 503-823-0300

Left sidebar menu items:
PPB Home Page
PPDS Partners
Portland Police Intranet
Portland Online
CAMIN 2
PPB Crime Mapper
Washington Sex Offende
OJIN
First Gov Portal
Clark County Sheriff
Change Default Printer
eSWIS
eSWIS Training Videos
ePPDS Suggestion
Report A Problem

PPDS Address Search Screen

PPDS ADDRESS SEARCH 1:11 PM 12/11/2006

File Edit Functions Codes Help

PPDS ADDRESS SEARCH

EXACT ADDRESS

ST NBR DIR STREET NAME TYPE APT/RM/SUITE CITY

INTERSECTION

DIR STREET NAME TYPE DIR STREET NAME TYPE ISEC CITY


LANDMARK

LANDMARK/FREEWAY/
HIGHWAY/COMMON NAME QUALIFIER CITY

BLOCK FACE

ADDR DIR STREET NAME TYPE CITY

DISPLAY GRID MAPS ADDRESS LOCATOR STREET NAME ABBREVIATIONS FREEWAY/HIGHWAY LIST



PPDS Address Search Screen – Select Landmark Pull-Down

PPDS ADDRESS SEARCH 1:11 PM 12/11/2006

File Edit Functions Codes Help

PPDS ADDRESS SEARCH

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DISPLAY GRID MAPS ADDRESS LOCATOR STREET NAME ABBREVIATIONS FREEWAY/HIGHWAY LIST

Landmark Pull-Down for Freeway/Highway Selection

The screenshot shows the 'PPDS ADDRESS SEARCH' application window. A dialog box titled 'CHOOSE LANDMARK RANGE' is open, displaying two selection options: 'LANDMARK NAME FROM 0-9 THRU L' and 'LANDMARK NAME FROM M THRU Z'. Below these options is a list titled 'FREEWAY/HIGHWAY LIST' containing the following items:

- I-205 FWY NB
- I-205 FWY SB
- I-405 FWY NB
- I-405 FWY SB
- I-5 FWY NB
- I-5 FWY SB
- I-84 FWY EB
- I-84 FWY WB
- OR-217 HWY NB
- OR-217 HWY SB
- US-26 HWY EB
- US-26 HWY WB
- US-30 HWY EB
- US-30 HWY WB

A red text instruction reads 'Double click freeway/highway for list'. A large cyan arrow points from the left side of the screen towards the list. The background window shows various search filters like 'EXACT ADDRESS', 'INTERSECT', and 'LANDMARK', along with a menu bar and a toolbar.

List of Qualifiers for the select Highway and Direction

The screenshot shows the 'PPDS ADDRESS SEARCH' application window. A 'FREQUENCY/HIGHWAY' dialog box is open, displaying a table of highway and direction qualifiers. A large blue arrow points to the 'QUALIFIER' column of the table.

FREQUENCY/HIGHWAY	QUALIFIER	CITY
I-205 FWY NB	AT 92ND AVE	PORT
I-205 FWY NB	AT AIRPORT WAY	PORT
I-205 FWY NB	AT ALDERWOOD RD	PORT
I-205 FWY NB	AT BURNSIDE ST	PORT
I-205 FWY NB	AT DIVISION UNP	PORT
I-205 FWY NB	AT FLAVEL ST	PORT
I-205 FWY NB	AT FOSTER RD	PORT
I-205 FWY NB	AT GLISAN ST	PORT
I-205 FWY NB	AT HALSEY ST	PORT
I-205 FWY NB	AT HAROLD ST UNP	PORT
I-205 FWY NB	AT HOLGATE BLVD	PORT
I-205 FWY NB	AT I-84 UNP	PORT
I-205 FWY NB	AT JOHNSON CRK BLVD	CLAC
I-205 FWY NB	AT KILLINGSWORTH ST	PORT
I-205 FWY NB	AT MAIN ST PED BR	PORT

Five types of Highway/Freeway Qualifiers:

AT - meaning 'at' a cross-street location

MP - for a Milepost location

EXIT - Exit #

ON - On-Ramps; entering freeway FROM a location

OFF - Off-Ramps; exiting freeway TO a location

List of Qualifiers for the select Highway and Direction

The screenshot shows the 'PPDS ADDRESS SEARCH' application window. A 'FREEWAY/HIGHWAY' dialog box is open, displaying a table of qualifiers. The dialog box has a title bar with a yellow background and a blue border. The table has three columns: 'FREEWAY/HIGHWAY', 'QUALIFIER', and 'CITY'. The 'CITY' column contains 'PORT' for most entries and 'CLAC' for one. There are five blue arrows pointing to the 'FREEWAY/HIGHWAY' column, highlighting specific entries: 'I-205 FW', 'I-205 FWY NB', 'I-205 FW', 'I-205 FWY NB', and 'I-205 FW'. Below the table are three buttons: 'Accept', 'Highway Code Desc', and 'Cancel'.

FREEWAY/HIGHWAY	QUALIFIER	CITY
I-205 FW	MP 26.5	PORT
I-205 FWY NB	OFF AIRPORT WAY EB	PORT
I-205 FWY NB	OFF AIRPORT WAY WB	PORT
I-205 FWY NB	OFF DIVISION/POWELL	PORT
I-205 FWY NB	OFF FOSTER RD	PORT
I-205 FWY NB	OFF GLISAN ST	PORT
I-205 FW	OFF I-84E	PORT
I-205 FWY NB	OFF I-84W	PORT
I-205 FWY NB	OFF JOHNSON CRK BLVD	CLAC
I-205 FWY NB	OFF KILLINGSWORTH ST	PORT
I-205 FWY NB	OFF SANDY BLVD	MYDP
I-205 FWY NB	OFF WASHINGTON/STARK	PORT
I-205 FW	ON AIRPORT WAY	PORT
I-205 FWY NB	ON DIVISION ST	PORT
I-205 FWY NB	ON FOSTER RD	PORT

Five types of Highway/Freeway Qualifiers:

AT - meaning 'at' a cross-street location

MP - for a Milepost location

EXIT - Exit #

ON - On-Ramps; entering freeway FROM a location

OFF - Off-Ramps; exiting freeway TO a location

PPDS Address Search Screen – Select Highway/Qualifier

PPDS ADDRESS SEARCH

File Edit Functions Codes Help

7:57 AM 12/12/2006

EXACT ADDRESS

ST NBR DIR STREET NAME TYPE APT/RM/SUITE CITY

INTERSECTION

DIR STREET NAME TYPE DIR STREET NAME TYPE ISEC CITY

LANDMARK

LANDMARK/FREEWAY/
HIGHWAY/Common NAME QUALIFIER CITY

I-205 FWY NB ON GLISAN ST PORT

BLOCK FACE

ADDR DIR STREET NAME TYPE CITY

DISPLAY GRID MAPS ADDRESS LOCATOR STREET NAME ABBREVIATIONS FREEWAY/HIGHWAY LIST

Access Database with Freeway/Highway Reference Info

The screenshot displays a software application window titled "PPDS ADDRESS SEARCH" with a menu bar (File, Edit, Functions, Codes, Help) and a toolbar. The main interface is divided into several sections:

- EXACT ADDRESS:** Includes fields for "ST NBR", "DIR", and "S".
- INTERSECTION:** Includes fields for "DIR" and "STREET NAME".
- LANDMARK:** Includes fields for "LANDMARK/FREEWAY" and "HIGHWAY/COMMON". The value "I-205 FWY NB" is entered in the second field.
- BLOCK FACE:** Includes fields for "ADDR" and "DIR".

On the left side, there is a vertical menu with options: ADDR/NAME DISPLAY, ADDR/CASE DISPLAY, ADDR RECORD DATA, MULT CD A&T FILE, PRINT RECORD, PRINT PRIOR 12 MTH, and CAMIN 2.

At the bottom, there are four buttons: "DISPLAY GRID MAPS", "ADDRESS LOCATOR", "STREET ABBREVIATIONS", and "FREEWAY/HIGHWAY LIST". A large cyan arrow points from the "STREET ABBREVIATIONS" button to the "FREEWAY/HIGHWAY LIST" button.

Overlaid on the main window is a "Microsoft Access" window titled "frmFreeways : Form". This window contains a form titled "CHOOSE FREEWAY/HIGHWAY" with three buttons: "Beaverton", "Portland Area", and "EXIT Access".

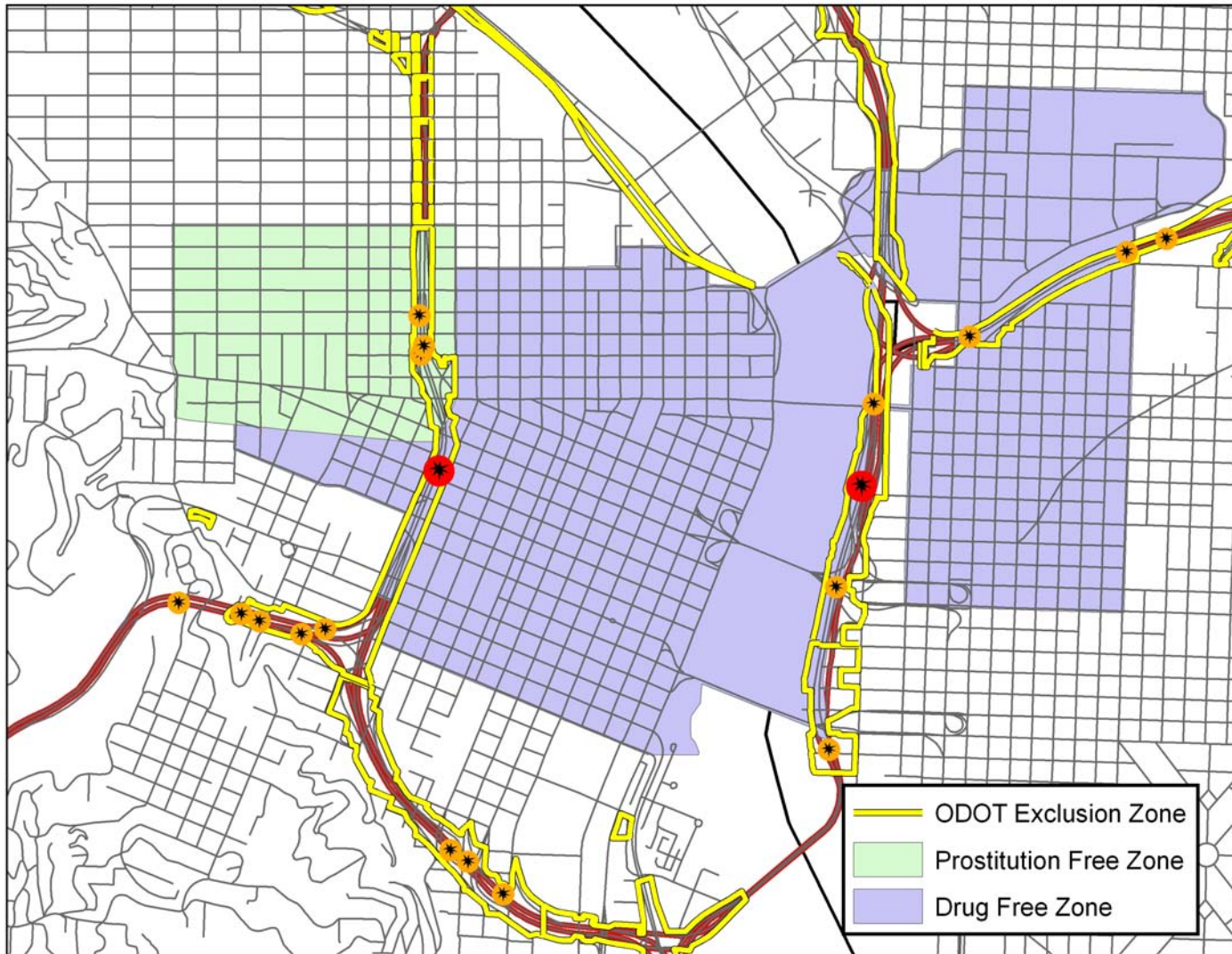
What is needed to add Highways/Freeways for other agencies

Agency will need to:

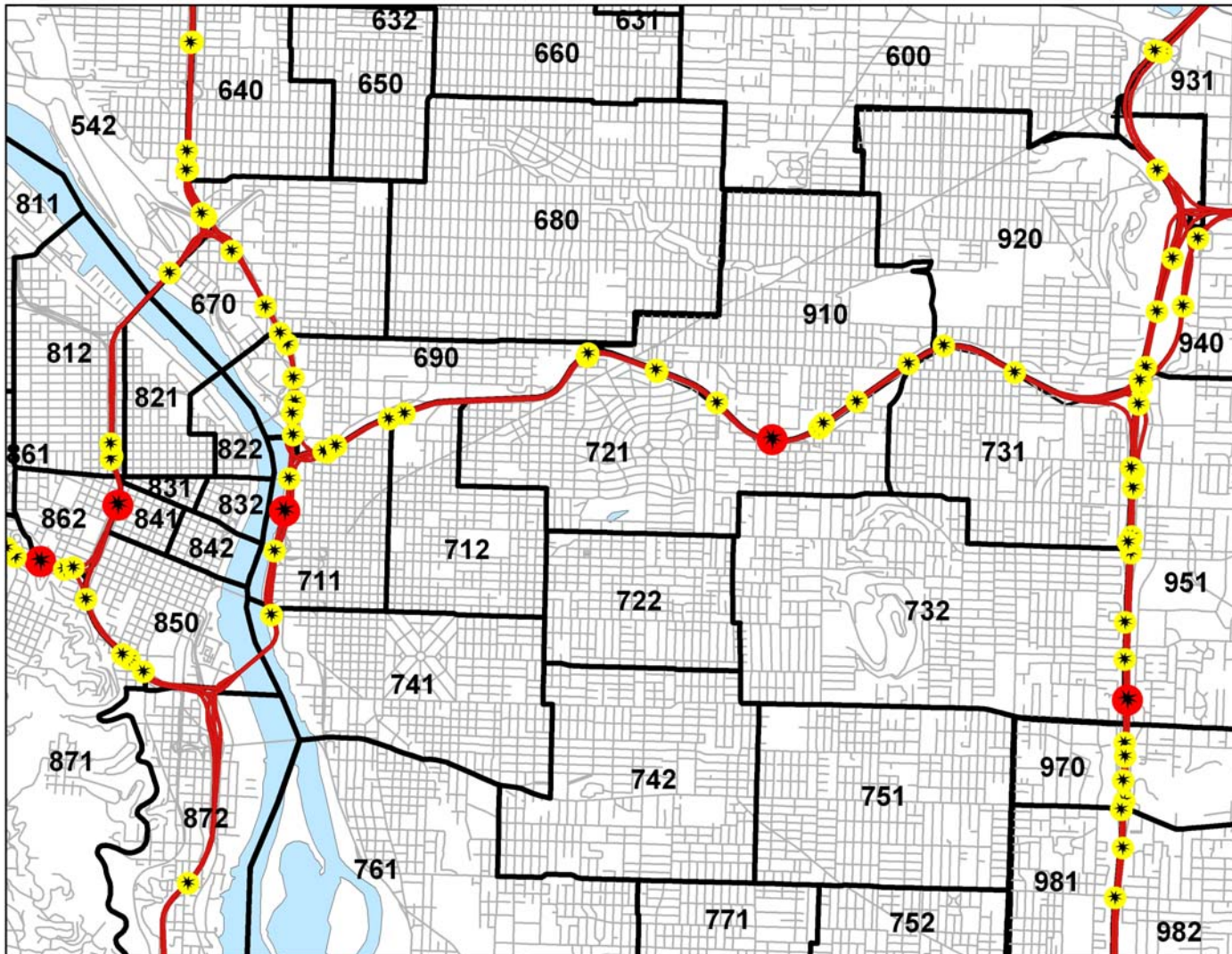
- Identify all Exits, on/off ramps, cross-streets (including pedestrian overpasses), and Mileposts to the .5 mile
- Provide state-plane x/y coordinates for each point
- Determine the exact milepost for each point
- Determine the geographic properties of each point
 - Precinct, District, Grid, etc

This information should be provided to PPB ITD as an electronic spreadsheet.

Improvements to Existing Reports



District Offense Counts



Questions?

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