

Memorandum

Department of Planning and Public Works

DATE: November 15, 2010

TO: Mike Herring, CA

FROM: *me* Mike Geisel, DPW\CE



SUBJECT: Emergency Siren upgrades

As you are aware, St. Louis County is working with public agencies and emergency responders throughout the County to upgrade and enhance the emergency notification system. This system consists of radio controlled emergency notification devices with voice and siren capabilities which are strategically placed around the area to notify residents of an emergency. Most notably, these sirens are used as part of the severe weather alarm system, but have other applications.

Attached is the Cooperation Agreement for Emergency Communications System, which basically allows for St. Louis County to use existing easements and City rights-of-ways to upgrade and place additional communication towers. This system includes radio communication towers, antennas, emergency alert sirens and other facilities. St. Louis County has designed the system to be able to provide a notification at a volume of at least 70 decibels, or a minimum of 9 decibels above the background noise levels, such that all persons would have a reasonable expectation of hearing the alarms. At the source, the sirens are designed to output a signal at 129 decibels.

Under the proposed design, eight existing towers are to be removed within the City. There are 11 new or upgraded towers, four of which are proposed on City of Chesterfield Right-of-Way.

Accordingly, Staff has prepared the attached ordinance to be considered by the Planning and Public Works Committee, and subsequently by the full City Council.

With your concurrence, **I recommend that the attached Cooperation Agreement and associated ordinance be forwarded to the Planning and Public Works Committee for consideration, and subsequently to City Council for approval.**

If you desire additional information or want to discuss this further, let me know.

Cc Ray Johnson, Chief of Police

*ohid
2/2/11
11/15/10*

BILL NO. _____

ORDINANCE NO. _____

AN ORDINANCE AUTHORIZING THE MAYOR TO EXECUTE A COOPERATION AGREEMENT FOR EMERGENCY COMMUNICATIONS SYSTEM IMPROVEMENTS IN THE CITY OF CHESTERFIELD

WHEREAS the County intends to construct and maintain a County-wide Emergency Communications System which will provide communications links that permit participating governmental entities, including the City of Chesterfield, to communicate within the geographic boundaries of the County and potentially beyond the region and,

WHEREAS the system will include radio communication towers, antennas, emergency alert sirens and other facilities located on property owned by participating entities, including the City of Chesterfield; and,

WHEREAS in order to accomplish the upgrade of the emergency alert component of the system, the County will upgrade, replace and many cases relocate existing sirens; and,

WHEREAS the City of Chesterfield is willing to allow County to construct, remove, relocate, repair, maintain and operate the facilities, upon, over, under, and across certain portions of real property (including easements) owned by the City of Chesterfield; and

WHEREAS the Planning and Public Works Committee has reviewed, considered, and recommended approval by the City Council;

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI, AS FOLLOWS:

Section 1. The City Council of the City of Chesterfield hereby authorizes the Acting Mayor to execute the Cooperation Agreement Emergency Communications System, identified as "Exhibit A" and attached hereto for reference.

Section 2. The Acting Mayor and City Clerk are authorized and directed to evidence the approval of said Cooperation Agreement Emergency Communications System by affixing their signatures and the official seal of the City of Chesterfield as required on said documents.

Section 3. This ordinance shall be in full force and effect from and after its passage and approval.

Passed and approved this _____ day of _____, 2011.

Acting Mayor

ATTEST:

City Clerk

[FIRST READING HELD: _____]

Charlie A. Dooley
County Executive



Sheryl L. Hodges, D.E., P.E., L.P.G.
Director

September 14, 2010

Mr. Michael G. Herring
City Administrator
City of Chesterfield
690 Chesterfield Parkway West
Chesterfield, MO 63017

Dear Mr. Herring:

Enclosed please find six copies of an Agreement between City of Chesterfield and St. Louis County for the installation, access, and maintenance of Emergency Communication System tower within the City of Chesterfield's jurisdiction. Also enclosed are details of the units, maps of proposed siren locations, GIS map showing the location of sirens within your city-limits, and a map of existing sirens scheduled to be removed.

Please have the documents signed and call me at 314-615-8563 when they are ready to be picked up. Once the returned Agreements are fully executed by the St. Louis County officials, I will return two originals for your files.

Sincerely,

A handwritten signature in black ink, appearing to read "August E. Heck, Jr.".

August E. Heck, Jr. P.E.
North/West Area Engineer

Handwritten initials "JRM" and the date "9/15/10" in blue ink.

COOPERATION AGREEMENT EMERGENCY COMMUNICATIONS SYSTEM

THIS AGREEMENT, Made and entered into this ____ day of _____, 2010, by and between ST. LOUIS COUNTY, MISSOURI, hereinafter referred to as "County"; and City of Chesterfield, hereinafter referred to as "City";

WITNESSETH:

WHEREAS, County intends to construct and maintain a county-wide Emergency Communications System ("the System"), which will provide communications links that permit participating governmental entities, including City, to communicate within the geographic boundaries of County and potentially beyond the region;

WHEREAS, the System will include radio communication towers, antennas, emergency alert sirens and other facilities ("the Facilities") located on property owned by participating governmental entities, including City;

WHEREAS, in order to accomplish the upgrade of the emergency alert component of the System, the County will replace and, in many cases, relocate existing sirens;

WHEREAS, in order to accomplish the build out of the radio backbone component of the System, the County will install base stations, antenna(s), cabling and wiring and related equipment and accessories;

WHEREAS, City is willing to allow County to construct, remove, relocate, repair, maintain and operate the Facilities, upon, over, under, and across certain portions of real property (including easements) owned by City, as depicted on Exhibit A, attached hereto and incorporated by reference ("the Property"), subject to the conditions and covenants hereinafter set forth; and

WHEREAS, CITY is authorized to enter into this Contract by Ordinance No. _____, and COUNTY is authorized to enter into this Contract by Ordinance No. 24358;

NOW THEREFORE, for and in consideration of the sum of One and No/100ths Dollars (\$1.00) and of the covenants and provisions hereinafter set forth to be kept and performed by County, City does hereby permit the use by County to construct, remove, relocate, repair, maintain and operate the Facilities as described above, in, upon, over, under, and across portions of the Property as described above and to use

such additional space adjacent to the Property as may be required for working room; subject to all deeds, easements, mortgages, restrictions, or encumbrances of record.

This grant is subject to the following terms and conditions:

1. The Facilities shall be and become an integral part of the Emergency Communications System of County, which will be used by City and other participating governmental entities to communicate within the geographic boundaries of County and potentially beyond the region.

2. All charges for work and materials supplied in connection with construction, removal, relocation, repair and maintenance of said Facilities shall be borne by County and County shall hold City's property harmless from any liens or encumbrances arising there from.

3. County shall be responsible for securing, at its sole expense, any and all permits, licenses and other necessary government approvals.

4. Any notice, request, complaint, demand or other communication required by this Agreement to be given to or filed with County or City, shall be in writing and shall be given or filed in the manner and at the addresses specified below.

[*fill in contact info for County and City]

Saint Louis County Department of Highways and Traffic
121 S. Meramec Avenue
St. Louis, Mo. 63105

City of Chesterfield
690 Chesterfield Parkway West
Chesterfield, Mo. 63017

5. This grant shall run with the land and shall be binding upon the parties hereto, and their successors and assigns. Neither party may mortgage or otherwise assign its right under this Agreement without the written consent of the other, which shall not be unreasonably withheld or delayed.

6. This Agreement may be amended, changed, modified, altered or terminated only by written agreement of County and City.

7. In the event that any actions or proceedings are initiated with respect to this agreement, the parties agree that the venue thereof shall be St. Louis County, Missouri, and that this agreement shall be governed by the laws of the State of Missouri.

IN WITNESS WHEREOF, the parties hereto have executed these presents on the day and year first above mentioned.

COUNTY OF ST. LOUIS

By: _____
Charlie A. Dooley, County Executive

ATTEST:

County Clerk

Approved:

Director of Highways and Traffic

Approved:

Chief of Police

Approved as to legal form:

County Counselor

Approved:

Risk and Insurance Manager

Approved:

Accounting Officer

CITY OF CHESTERFIELD

By: _____
Mayor

ATTEST:

City Clerk

Approved as to legal form:

City Attorney

STATE OF MISSOURI)
) SS.
COUNTY OF ST. LOUIS)

On this _____ day of _____, 201__, before me, a Notary Public in and for said state, personally appeared _____ [name], _____ [title] of _____ [city], known to me to be the person who executed the foregoing agreement in behalf of said district and acknowledged to me that he or she executed the same for the purposes therein stated.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal in the County and State aforesaid, the day and year first above written.

Notary Public

My commission expires:



Sheryl L. Hodges, D.E., P.E., L.P.G., Director
**ELECTRONIC VOICE AND SIREN
 MASS NOTIFICATION SYSTEM (EVSMNS)
 UPGRADES**

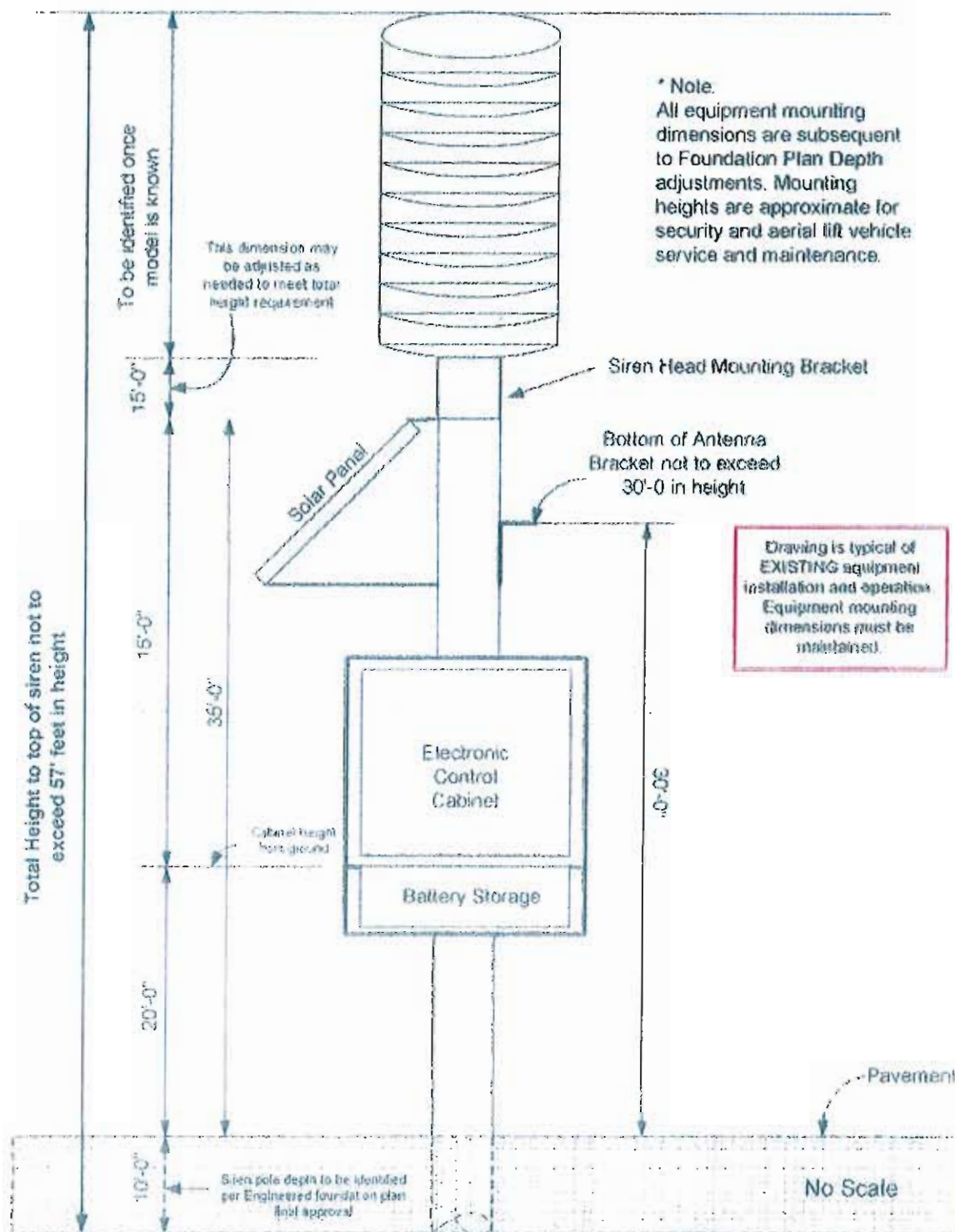
**PROJECT NO. FAC-1366
 IFB# 2010-06-1166-PG**

**TYPICAL DETAILS,
 LOCATION MAPS
 AND SIREN SITE MAPS**

<u>INDEX OF SHEETS</u>	
Typical Details	1 - 3
New/Upgrade Siren Listing	1
Location Maps	1 - 8
Phase I Siren Site Maps	1 - 92
Phase II Siren Site Maps	1 - 69
Phase III Siren Site Maps	1 - 8
Existing Upgrade Site Maps	1 - 18
Removal Listing	1
Removal Location Maps	1 - 8

Equipment Mounting Dimensions Detail 1

Note:
 These Details are Schematic
 in Nature and Do Not Represent
 a Completed Engineering Design



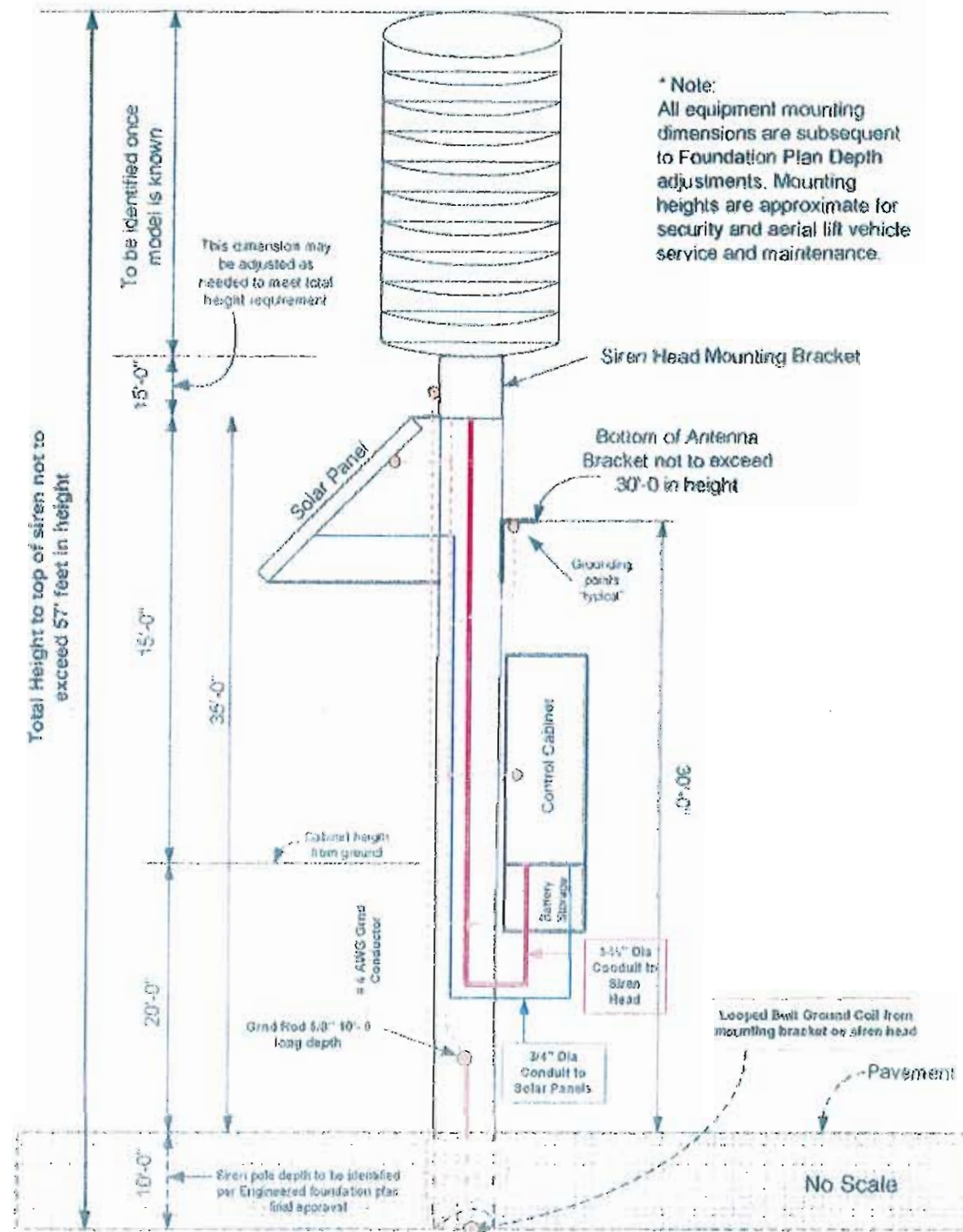
* Note:
 All equipment mounting
 dimensions are subsequent
 to Foundation Plan Depth
 adjustments. Mounting
 heights are approximate for
 security and aerial lift vehicle
 service and maintenance.

Drawing is typical of
 EXISTING equipment
 installation and operation.
 Equipment mounting
 dimensions must be
 maintained.

Installation Details - Elevation View
 Typical EVSMNS Unit

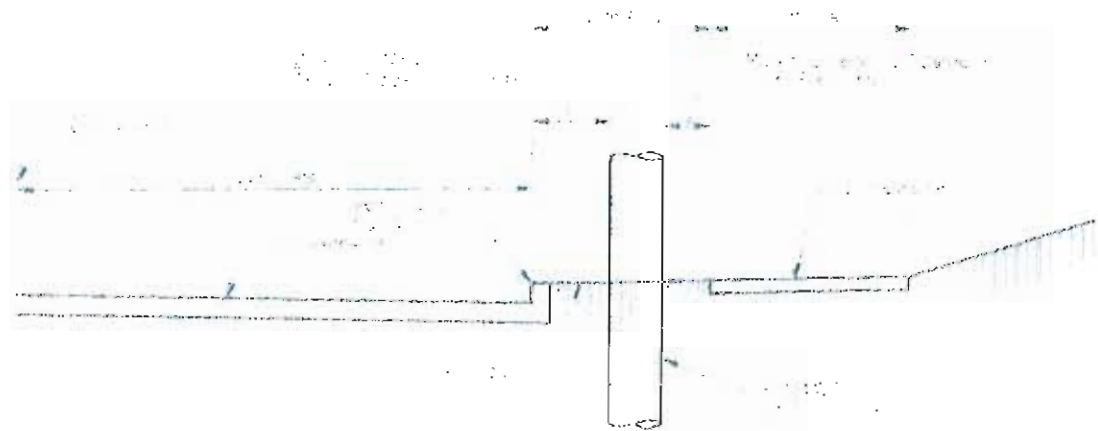
Siren Conduit and Grounding Locations Detail 2

Note:
 These Details are Schematic
 in Nature and Do Not Represent
 a Completed Engineering Design

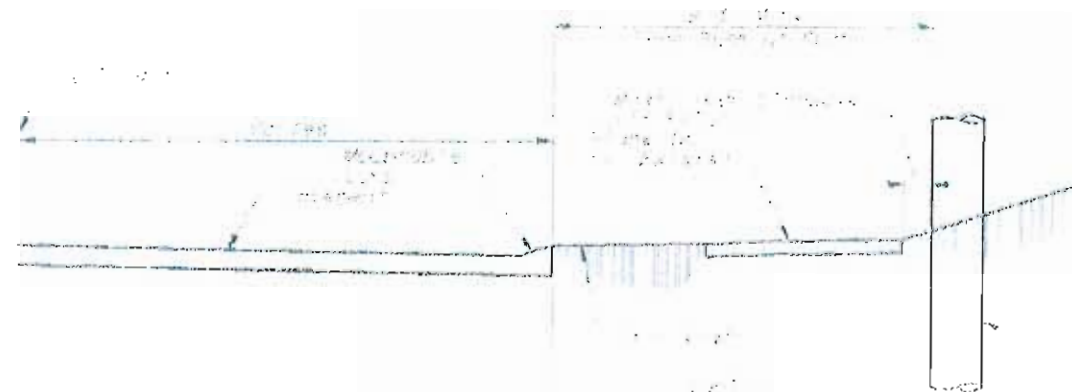


* Note:
 All equipment mounting
 dimensions are subsequent
 to Foundation Plan Depth
 adjustments. Mounting
 heights are approximate for
 security and aerial lift vehicle
 service and maintenance.

Installation Details - Grounding and Conduit
 Typical EVSMNS Unit



**Right of Way Installation
Behind Vertical Curb**



**Right of Way Installation
Behind Mountable Curb**



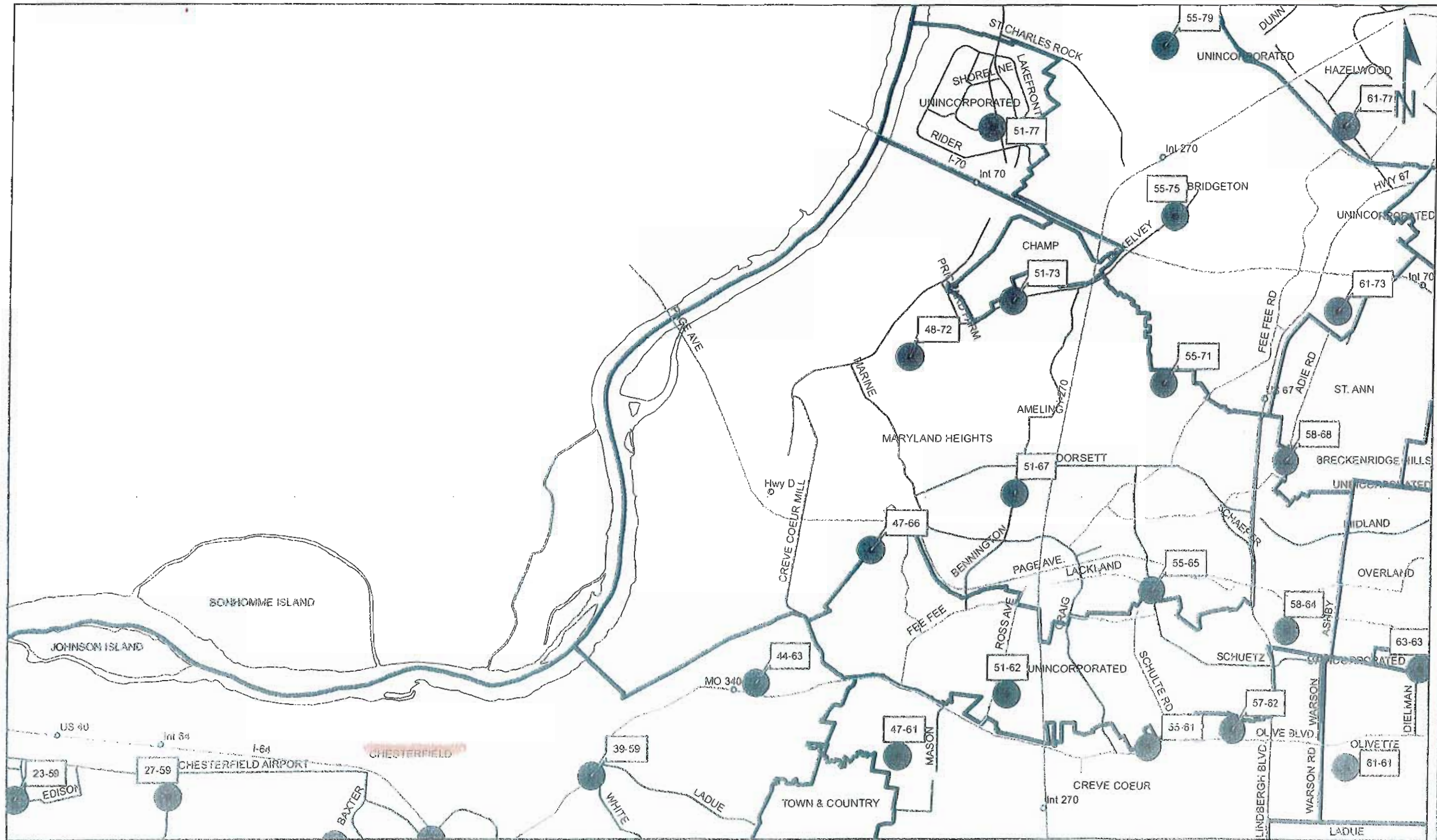
**Right of Way Installation
With No Curb**

Note:
These Details are Schematic
in Nature and Do Not Represent
a Completed Engineering Design

Notes:

1. Contractor to Verify Location of All Utilities
2. Contractor to Notify County of Any Area Where Installation Shown Is Not Possible Within Right-of-Way
3. Contractor to Review Project Manual for Other Requirements

**Installation Details Within Right-of-Way
Typical EVSMNS Unit**



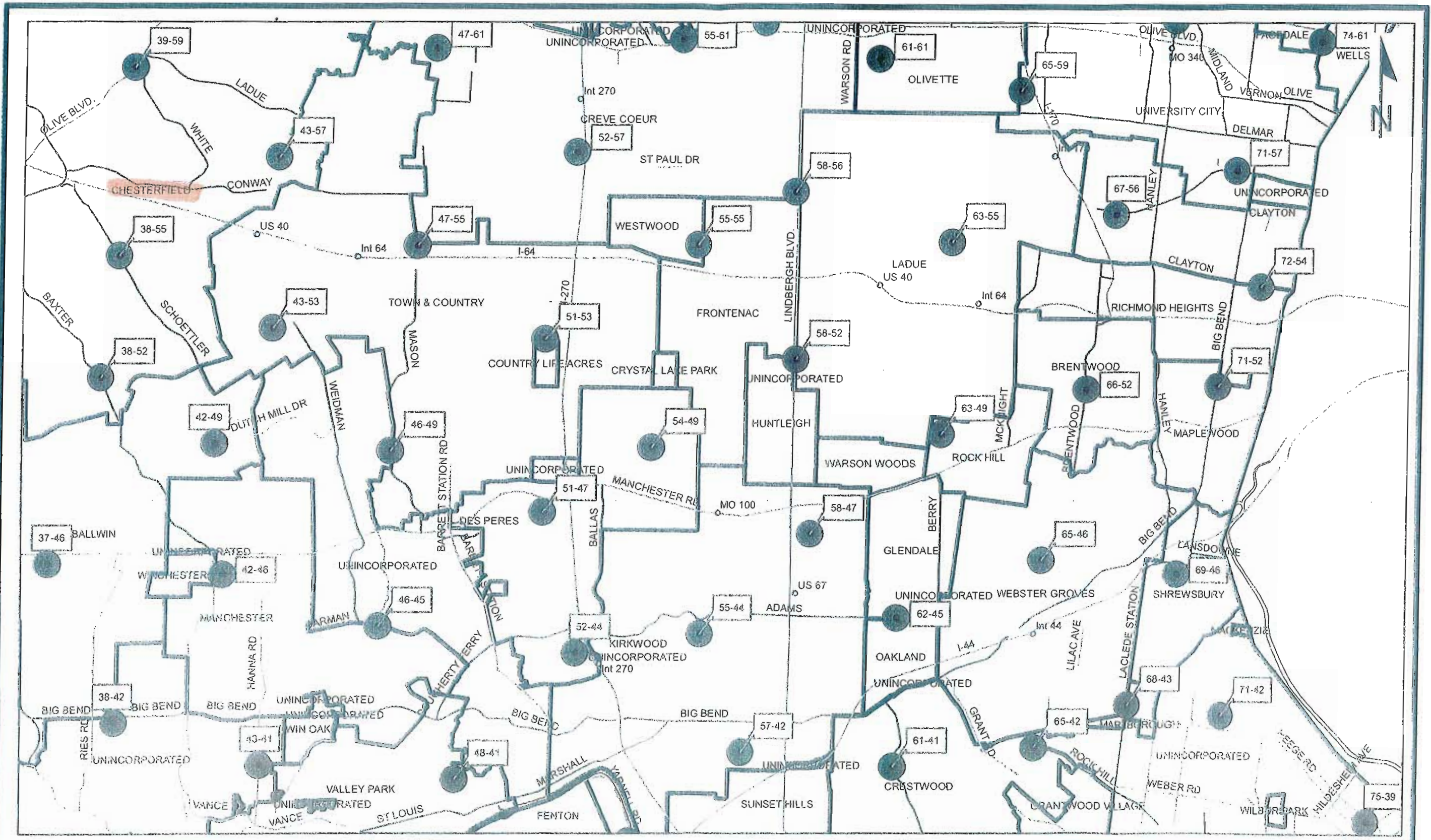
● Siren Location


Scale: 1"=10mi

New and Upgrade Siren Locations Northwest St. Louis County

St. Louis
COUNTY
HIGHWAYS & TRAFFIC
PUBLIC WORKS

Emergency Siren Project
New/Upgrade Sirens
Key Map
Sheet 1 of 8

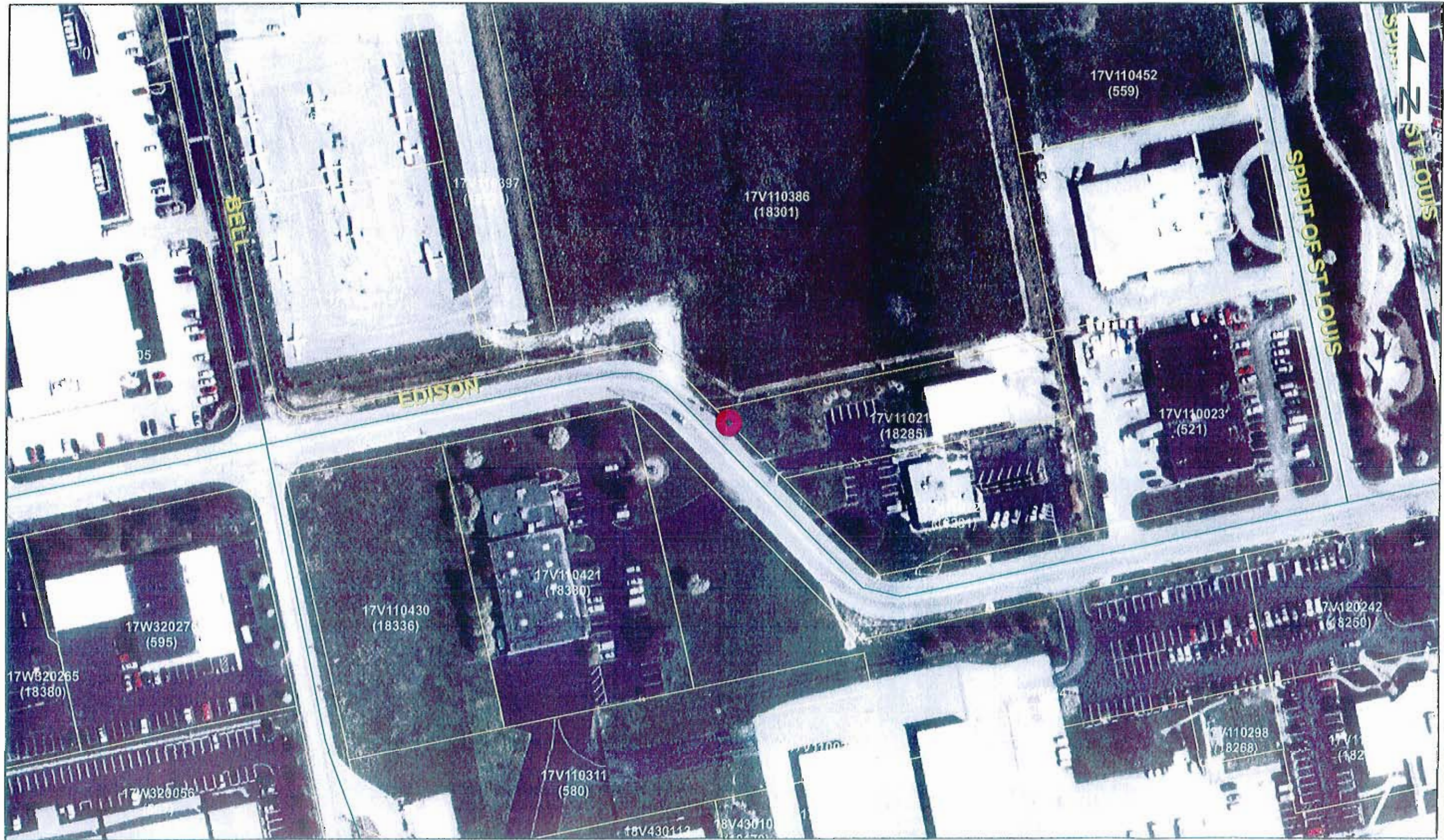


 Siren Location
 Scale: 1"=10mi

New and Upgrade Siren Locations Central St. Louis County

Saint Louis
COUNTY
 HIGHWAYS & TRAFFIC
 PUBLIC WORKS

Emergency Siren Project
 New/Upgrade Sirens
 Key Map
 Sheet 5 of 8



Siren Location

Scale: 1"=100'

Siren ID
23-59

Location: Upgrade Edison Ave, 500' E of Bell Ave

Jurisdiction: Chesterfield

Saint Louis
COUNTY
HIGHWAYS & TRAFFIC
PUBLIC WORKS

Emergency Siren Project
Proposed Siren Site Maps
Existing Siren Upgrades
Sheet 2 of 16



Siren Location

Siren ID
35-58

Location: Upgrade W Chesterfield Pkwy

Jurisdiction: Chesterfield



Emergency Siren Project
Proposed Siren Site Maps
Existing Siren Upgrades
Sheet 3 of 16

Scale: 1"=100'



Siren Location

Scale: 1"=100'

Siren ID
32-58

Location: ROW S 18T510141 16695 Wild Horse Creek

Jurisdiction: Chesterfield



Emergency Siren Project
Proposed Siren Site Maps
Phase II - Municipalities
Sheet 28 of 69



Siren Location

Scale: 1"=100'

Siren ID
34-54

Location: ROW W of 20S430012 15850 Old Clarkson Rd

Jurisdiction: Chesterfield



Emergency Siren Project
Proposed Siren Site Maps
Phase II - Municipalities
Sheet 29 of 69



Siren Location

Siren ID
43-57

Location: ROW E of 18Q140343 175 S Woods Mill


Jurisdiction: Chesterfield

Saint Louis
COUNTY
HIGHWAYS & TRAFFIC
PUBLIC WORKS

Emergency Siren Project
Proposed Siren Site Maps
Phase II - Municipalities
Sheet 34 of 69

Scale: 1"=100'



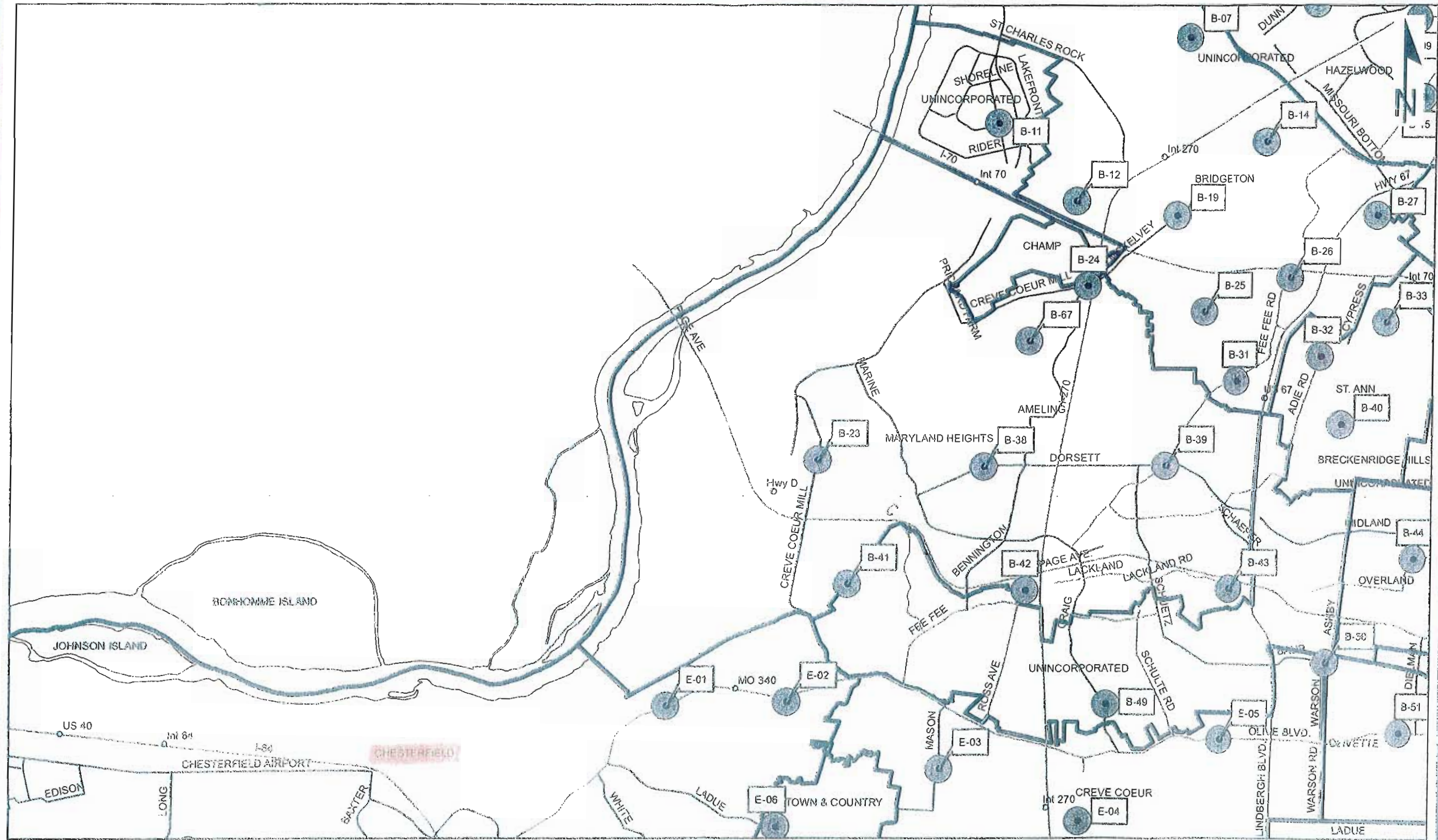
 Siren Location
 Scale: 1"=100'


Siren ID
44-63

Location: ROW E of 16Q510012 224 River Valley Dr
 Jurisdiction: Chesterfield

Saint Louis
COUNTY
 HIGHWAYS & TRAFFIC
 PUBLIC WORKS

Emergency Siren Project
 Proposed Siren Site Maps
 Phase II - Municipalities
 Sheet 35 of 69

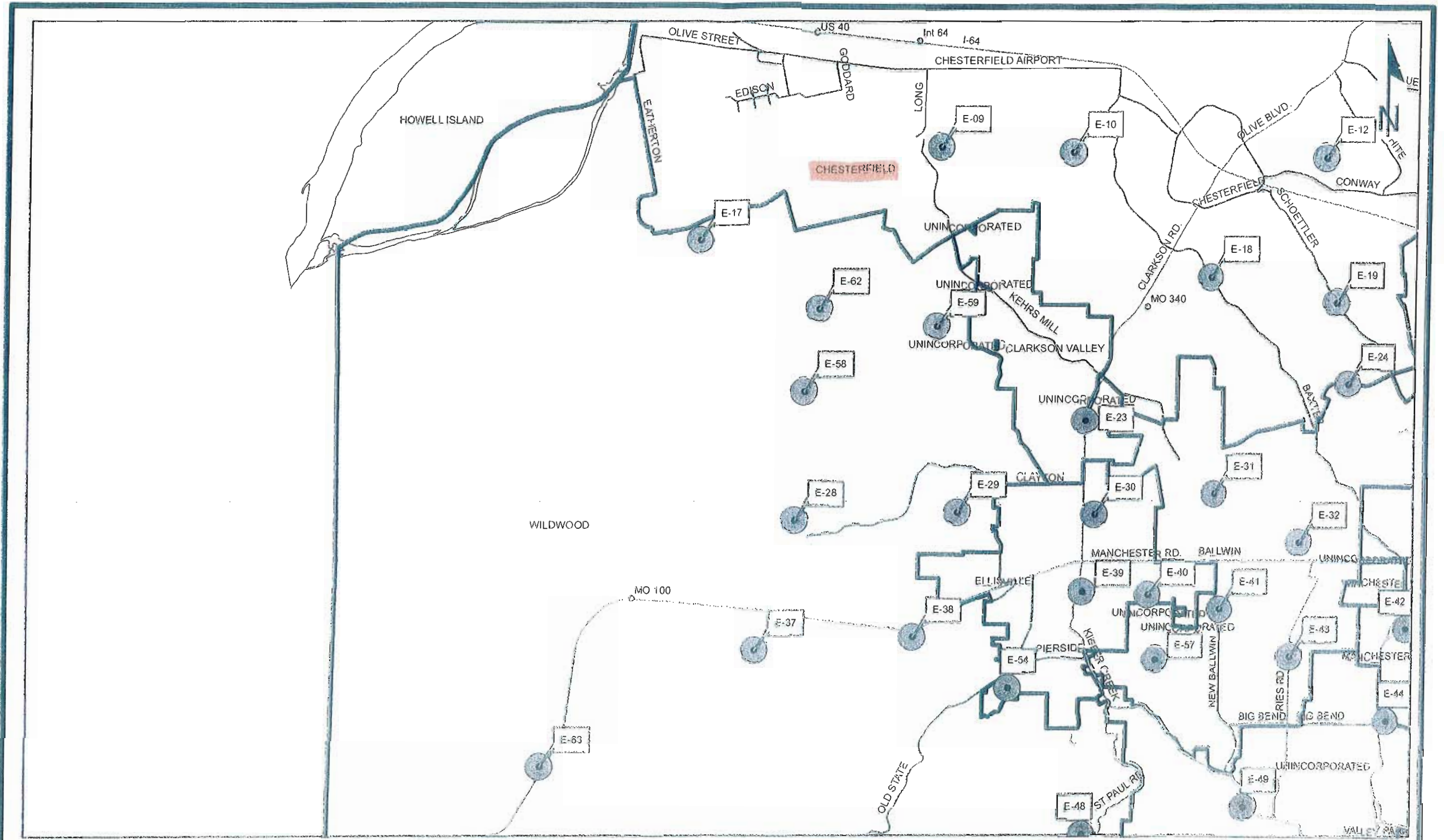


 Siren Location
 Scale: 1"=10mi

Existing Siren Locations For Removal Northwest St. Louis County

Saint Louis
COUNTY
 HIGHWAYS & TRAFFIC
 PUBLIC WORKS

Emergency Siren Project
 Siren Removals
 Key Map
 Sheet 1 of 8

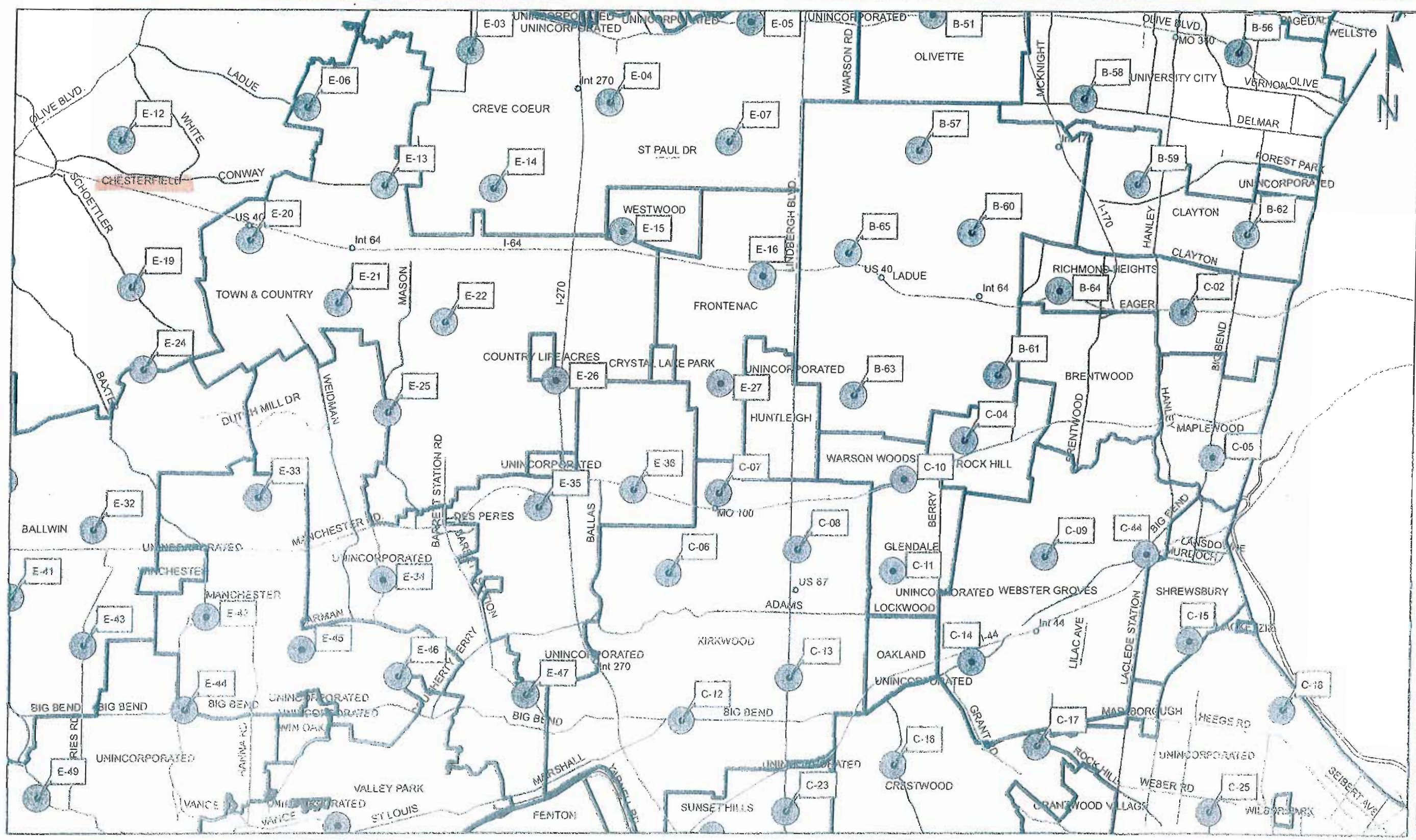



 Siren Location
 Scale: 1"=10mi

Existing Siren Locations For Removal West St. Louis County

Saint Louis
COUNTY
 HIGHWAYS & TRAFFIC
 PUBLIC WORKS

Emergency Siren Project
 Siren Removals
 Key Map
 Sheet 4 of 8



 Siren Location
 Scale: 1"=10mi

Existing Siren Locations For Removal Central St. Louis County

Saint Louis
COUNTY
 HIGHWAYS & TRAFFIC
 PUBLIC WORKS

Emergency Siren Project
 Siren Removals
 Key Map
 Sheet 5 of 8