

**CITY OF SANTA ROSA
GENERAL SERVICES AGREEMENT
WITH BRIGHTVIEW LANDSCAPE SERVICES, INC.
AGREEMENT NUMBER F002999**

This "Agreement" is made as of this ____ day of _____, 2025 by and between the City of Santa Rosa, a municipal corporation ("City"), and BrightView Landscape Services, Inc., a California Corporation ("Contractor").

RECITALS

A. City desires to contract with a vendor to provide roadway landscape services for the City of Santa Rosa.

B. City desires to retain a qualified contractor to conduct the services described above in accordance with the terms of this Agreement.

C. Contractor represents to City that it is fully qualified to conduct the services described above.

D. The parties have negotiated upon the terms pursuant to which Contractor will provide such services and have reduced such terms to writing.

AGREEMENT

NOW, THEREFORE, City and Contractor agree as follows:

1. SCOPE OF SERVICES

Contractor shall provide to City the services described in Exhibit A ("Scope of Services"). Contractor shall provide these services at the time, place, and in the manner specified in Exhibit A. Exhibit A is attached hereto solely for the purpose of defining the manner and scope of services to be provided by Contractor and is not intended to, and shall not be construed so as to, modify or expand the terms, conditions or provisions contained in this Agreement. The parties agree that any term contained in Exhibit A that adds to, varies or conflicts with the terms of this Agreement is null and void.

2. TIME FOR PERFORMANCE

The services described herein shall be provided the period of May 1, 2025 through April 30, 2028. Contractor shall devote such time and effort to the performance of services as is necessary for the satisfactory and timely performance of Contractor's obligations under this Agreement. Neither party shall be considered in default of this Agreement, to the extent that party's performance is prevented or delayed by any

cause, present or future, that is beyond the reasonable control of that party.

3. STANDARD OF PERFORMANCE

Contractor shall perform all services required under this Agreement in the manner and according to the standards currently observed by a competent practitioner of Contractor's occupation in California. All products and services of whatsoever nature that Contractor provides to City pursuant to this Agreement shall conform to the standards of quality normally observed by persons currently practicing in Contractor's occupation, and shall be provided in accordance with any schedule of performance specified in Exhibit A. Contractor shall assign only competent personnel to perform services pursuant to this Agreement. In the event that City, at any time during the term of this Agreement, desires the removal of any person assigned by Contractor to perform services pursuant to this Agreement, because City, in its sole discretion, determines that such person is not performing in accordance with the standards required herein, Contractor shall remove such person immediately upon receiving notice from City of the desire of City for the removal of such person.

4. COMPENSATION

The total of all fees paid to Contractor for the satisfactory performance and completion of all services set forth in Exhibit A shall not exceed the total sum of \$1,888,347.84. The Chief Financial Officer is authorized to pay all proper claims from various Charge Numbers.

5. BILLABLE RATES, PAYMENTS TO CONTRACTOR

a. Billable Rates. Contractor shall be paid for the performance of services at rates as set forth in Exhibit C and C1.

b. Payments. Payments will be delayed where Contractor fails to provide the information required under subsection c. below or fails to comply with the insurance requirements in Attachment One to this Agreement. In no event shall the City be obligated to pay late fees or interest, whether or not such requirements are contained in Contractor's invoice.

c. Invoices. Payment will be made on a calendar-month basis in arrears. Invoices shall be submitted to the person and address specified in the Agreement, bid, or purchase order. In the event this Agreement becomes effective or terminates during the course of a month, the amount paid to the Contractor for the partial month shall be determined by prorating the amount on the basis of the number of calendar days involved. Processing of payment will be delayed for Contractor's failure to include reference to Agreement (including number) on the invoice **and for failure to maintain current insurance information with the City in accordance with insurance requirements hereunder.** In no event shall City be obligated to pay late fees or interest, whether or not such requirements are contained in the Contractor's invoice. Invoices for services provided in June or for any services not previously invoiced shall be submitted within 10 working days after June 30 to facilitate City fiscal

year end closing. Failure to comply with this invoice submission requirement may delay payment.

In connection with any cash discount specified in the bid response, if applicable, or Contractor's Proposal, time will be computed from the date correct invoices are received by the person and address specified in the Agreement, bid, or purchase order. For the purpose of earning the discount, payment is deemed to be made on the date of mailing of the City warrant or check. All invoices shall contain the following information:

1. Contractor name and remittance address
2. Date of invoice issuance
3. Amount of invoice
4. City purchase order or Agreement number
5. Identification of Agreement or purchase order line item(s) (if multiple lines) and description of services provided
6. Date of completion of services
7. Detail of costs, including labor, materials, tax, etc.

d. **Business Taxes.** Contractor shall pay to the City when due all business taxes payable by Contractor under the provisions of Chapter 6-04 of the Santa Rosa City Code. The City may deduct any delinquent business taxes, and any penalties and interest added to the delinquent taxes, from its payments to Contractor.

6. TERM, SUSPENSION, TERMINATION

a. The term of this Agreement shall be for three years, commencing on the date it is made above. City and Contractor may, upon mutual written agreement of both parties, extend this Agreement for up to two (2) additional one year terms.

b. City shall have the right at any time to temporarily suspend Contractor's performance hereunder, in whole or in part, by giving a written notice of suspension to Contractor. If City gives such notice of suspension, Contractor shall immediately suspend its activities under this Agreement, as specified in such notice.

c. City shall have the right to terminate this Agreement for convenience at any time by giving a written notice of termination to Contractor. If City gives such notice of termination, Contractor shall immediately cease rendering services pursuant to this Agreement. If City terminates this Agreement, City shall pay Contractor the reasonable value of services rendered by Contractor prior to termination. In this regard, Contractor shall furnish to City such information as in the judgment of the City is necessary for City to determine the reasonable value of the services rendered by Contractor. City shall not in any manner be liable for lost profits that might have been made by Contractor had the Agreement not been terminated or had Contractor completed the services required by this Agreement.

7. TERMINATION OF AGREEMENT FOR DEFAULT

If at any time 1) Contractor fails to conform to the requirements of this Agreement; 2) Contractor seeks relief under any law for the benefit of insolvents or is adjudicated bankrupt; 3) any legal proceeding is commenced against Contractor which may interfere with the performance of this Agreement; or 4) Contractor has failed to supply an adequate working force, or materials of proper quality, or has failed in any other respect to prosecute the work with the diligence and force specified and intended in and by the terms of this Agreement, which default is not fully corrected or remedied to the reasonable satisfaction of City within ten (10) days following the date a written notice thereof by City, then City shall have the right and power, at its option and without prejudice to any other rights or remedies it may have, to immediately terminate this Agreement. Any cost or expense incurred by City arising out of Contractor's breach or default hereunder, and for City's enforcement of these rights, shall be the obligation of Contractor and may, at City's discretion, be deducted from any amounts that may then be owing to Contractor under this Agreement, without any release or waiver of any other rights or remedies in law or equity to which City may be entitled.

8. INDEMNIFY AND HOLD HARMLESS AGREEMENT

Contractor shall indemnify, defend and hold harmless City and its employees, officials, and agents, from and against any liability, (including liability for claims, suits, actions, arbitration proceedings, administrative proceedings, regulatory proceedings, losses, expenses or costs of any kind, whether actual, alleged or threatened, interest, defense costs, and expert witness fees), where the same results from or arises out of the performance of this Agreement by Contractor, its officers, employees, agents, or sub-contractors, excepting only that resulting from the sole, active negligence or intentional misconduct of City, its employees, officials, or agents. This indemnification obligation is not limited in any way by any limitation on the amount or type of damages or compensation payable to or for Contractor or its agents under workers' compensation acts, disability benefits acts, or other employees' benefits acts. The provisions of this Section 8 shall survive any expiration or termination of this Agreement.

9. INSURANCE REQUIREMENTS

Contractor shall maintain in full force and effect all of the insurance coverage described in, and in accordance with, Attachment One, "Insurance Requirements", which is attached hereto and hereby incorporated herein by this reference. Maintenance of the insurance coverages as set forth in Attachment One is a material element of this Agreement and a material part of the consideration provided by Contractor in exchange for the City's agreement to make the payments prescribed hereunder. Failure by Contractor to (i) maintain or renew coverage, (ii) provide the City notice of any changes, modifications, or reductions in coverage, or (iii) provide evidence of renewal, may be treated by the City as a material breach of this Agreement by Contractor, whereupon the City shall be entitled to all rights and remedies at law and in equity, including but not limited to the immediate termination of this Agreement. Notwithstanding the foregoing, any failure by Contractor to maintain required insurance coverage shall not excuse or alleviate Contractor from any of its other duties or obligations under this Agreement. In the event Contractor, with approval of the City

pursuant to Section 11 below, retains or utilizes any subcontractors in the provision of any services to City under this Agreement, Contractor shall assure that any such subcontractor has first obtained, and shall maintain, all of the insurance coverage requirements set forth in Attachment One.

10. LEGAL REQUIREMENTS AND PERMITS; NONDISCRIMINATION

a. Legal Requirements and Permits. Contractor represents and warrants that Contractor has all licenses, permits, City Business Tax Certificate, qualifications, and approvals of whatsoever nature that are legally required for Contractor to practice its occupation and provide services under this Agreement. Contractor shall perform all services described herein in compliance with all applicable federal, state and local laws, rules, regulations, and ordinances, including but not limited to, (i) the Americans With Disabilities Act (ADA) of 1990, (42 U.S.C. 12101, et seq.), and any regulations and guidelines issued pursuant to the ADA, which prohibits discrimination against individuals with disabilities and may require reasonable accommodations; (ii) and Labor Code Sections 1700-1775, which require prevailing wages (in accordance with DIR schedule at www.dir.ca.gov) be paid to any employee performing work covered by Labor Code Section 1720 et seq.; (iii) OSHA; and (iv) the Immigration Reform and Control Act of 1986. Contractor shall, if requested by City, provide certification and evidence of such compliance. If Contractor is an out-of-state corporation, Contractor warrants and represents that it possesses a valid certificate of qualification to transact business in the State of California issued by the California Secretary of State pursuant to Section 2105 of the California Corporations Code.

b. Non-Discrimination. With respect to the provision of goods or services under this Agreement, Contractor agrees not to discriminate against any person because of the race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, or military and veteran status of that person.

11. ASSIGNMENT AND SUBCONTRACTING

Contractor shall not subcontract or assign any right or obligation under this Agreement without the written consent of the City. Any attempted or purported subcontract or assignment without City's written consent shall be void and of no effect. No right under this Agreement, or claim for money due or to become due hereunder, shall be asserted against the City, or persons acting for the City, by reason of any so-called assignment of this Agreement or any part thereof and Contractor hereby agrees to indemnify and hold City harmless against any and all such claims. In the event Contractor obtains the prior written consent of City to assign monies due or to become due under this Agreement, Contractor shall provide City a copy of the instrument of assignment duly executed by Contractor, which shall contain a clause subordinating the claim of the assignee to all prior liens for services rendered or materials supplied for the performance of work. Upon notice and request by the City, Contractor shall promptly remedy, to include termination of any subcontract as appropriate and necessary, any

default or failure to perform in a satisfactory manner the work undertaken by any subcontractor. Contractor shall be fully responsible and accountable to the City for the acts and omissions of its subcontractors, and of persons directly or indirectly employed by them, to the same extent that Contractor is for the acts and omissions of persons directly employed by Contractor. Nothing contained in this Agreement shall create any contractual relation between any subcontractor and the City.

12. BINDING EFFECT

This Agreement shall be binding on the heirs, executors, administrators, successors, and assigns of the parties, subject to the provisions of Section 11, above.

13. RETENTION OF RECORDS

Contractor shall be required to retain any records necessary to document the charges for the services to be performed under this Agreement and make such records available to the City for inspection at the City's request for a period of not less than four (4) years.

14. ENTIRE AGREEMENT

This document, including all Exhibits and Attachment One, contains the entire agreement between the parties and supersedes whatever oral or written understanding the parties may have had prior to the execution of this Agreement. No alteration to the terms of this Agreement shall be valid unless approved in writing by Contractor, and by City, in accordance with applicable provisions of the Santa Rosa City Code.

15. SEVERABILITY

If any portion of this Agreement or the application thereof to any person or circumstance shall be held invalid or unenforceable, the remainder of this Agreement shall not be affected thereby and shall be enforced to the greatest extent permitted by law.

16. WAIVER

Neither City acceptance of, or payment for, any service performed by Contractor, nor any waiver by either party of any default, breach or condition precedent, shall be construed as a waiver of any provision of this Agreement, nor as a waiver of any other default, breach or condition precedent or any other right hereunder.

17. ENFORCEMENT OF AGREEMENT

This Agreement shall be governed, construed and enforced in accordance with the laws of the State of California. Venue of any litigation arising out of or connected with this Agreement shall lie exclusively in the state trial court located in Sonoma County in the State of California, and the parties consent to jurisdiction over their

persons and over the subject matter of any such litigation in such court, and consent to service of process issued by such court.

18. CONTRACTOR NOT AGENT

Except as City may specify in writing, Contractor and Contractor's personnel shall have no authority, express or implied, to act on behalf of City in any capacity whatsoever as an agent. Contractor and Contractor's personnel shall have no authority, express or implied, to bind City to any obligations whatsoever.

19. INDEPENDENT CONTRACTOR

a. It is understood and agreed that Contractor (including Contractor's employees) is an independent contractor and that no relationship of employer-employee exists between the parties hereto for any purpose whatsoever. Neither Contractor nor Contractor's assigned personnel shall be entitled to any benefits payable to employees of City. City is not required to make any deductions or withholdings from the compensation payable to Contractor under the provisions of this Agreement, and Contractor shall be issued a Form 1099 for its services hereunder. As an independent contractor, Contractor hereby agrees to indemnify and hold City harmless from any and all claims that may be made against City based upon any contention by any of Contractor's employees or by any third party, including but not limited to any state or federal agency, that an employer-employee relationship or a substitute therefor exists for any purpose whatsoever by reason of this Agreement or by reason of the nature and/or performance of any services under this Agreement.

b. It is further understood and agreed by the parties hereto that Contractor, in the performance of Contractor's obligations hereunder, is subject to the control and direction of City as to the designation of tasks to be performed and the results to be accomplished under this Agreement, but not as to the means, methods, or sequence used by Contractor for accomplishing such results. To the extent that Contractor obtains permission to, and does, use City facilities, space, equipment or support services in the performance of this Agreement, this use shall be at the Contractor's sole discretion based on the Contractor's determination that such use will promote Contractor's efficiency and effectiveness. Except as may be specifically provided elsewhere in this Agreement, the City does not require that Contractor use City facilities, equipment or support services or work in City locations in the performance of this Agreement.

c. If, in the performance of this Agreement, any third persons are employed by Contractor, such persons shall be entirely and exclusively under the direction, supervision, and control of Contractor. Except as may be specifically provided elsewhere in this Agreement, all terms of employment, including hours, wages, working conditions, discipline, hiring, and discharging, or any other terms of employment or requirements of law, shall be determined by Contractor. It is further understood and agreed that Contractor shall issue W-2 or 1099 Forms for income and employment tax

purposes, for all of Contractor's assigned personnel and subcontractors.

d. The provisions of this Section 19 shall survive any expiration or termination of this Agreement. Nothing in this Agreement shall be construed to create an exclusive relationship between City and Contractor. Contractor may represent, perform services for, or be employed by such additional persons or companies as Contractor sees fit.

20. NOTICES

Except as otherwise specifically provided in this Agreement, any notice, submittal or communication required or permitted to be served on a party hereto, may be served by personal delivery to the person or the office of the person identified below. Service may also be made by mail, by placing first-class postage affixed thereto, and addressed as indicated below, and depositing said envelope in the United States mail to:

City

Jennifer Myles
Purchasing Agent
635 First Street, 2nd Floor
Santa Rosa, California 95404
Phone: (707) 543-3700
jmyles@srcity.org

Contractor

David Moo
Business Development Executive
160 Wikiup Drive #205 Santa Rosa,
CA 95403 Phone: (651) 406-5904
david.moo@brightview.com

21. AUTHORITY; SIGNATURES REQUIRED FOR CORPORATIONS

Contractor hereby represents and warrants to the City that it is (a) a duly organized and validly existing corporation, formed and in good standing under the laws of the State of California, (b) has the power and authority and the legal right to conduct the business in which it is currently engaged, and (c) has all requisite power and authority and the legal right to consummate the transactions contemplated in this Agreement. Contractor hereby further represents and warrants that this Agreement has been duly authorized, and when executed by the signatory or signatories listed below, shall constitute a valid agreement binding on Contractor in accordance with the terms hereof.

If this Agreement is entered into by a corporation, it shall be signed by two corporate officers, one from each of the following two groups: a) the chairman of the board, president or any vice-president; b) the secretary, any assistant secretary, chief financial officer, or any assistant treasurer. The title of the corporate officer shall be listed under the signature.

22. COUNTERPARTS AND ELECTRONIC SIGNATURES

This Agreement and future documents relating thereto may be executed in two or more counterparts, each of which will be deemed an original and all of which together constitute one Agreement. Counterparts and/or signatures delivered by facsimile, pdf or

City-approved electronic means have the same force and effect as the use of a manual signature. Both City and Contractor wish to permit this Agreement and future documents relating thereto to be electronically signed in accordance with applicable federal and California law. Either Party to this Agreement may revoke its permission to use electronic signatures at any time for future documents by providing notice pursuant to the Agreement. The Parties agree that electronic signatures, by their respective signatories are intended to authenticate such signatures and to give rise to a valid, enforceable, and fully effective Agreement. The City reserves the right to reject any signature that cannot be positively verified by the City as an authentic electronic signature.

Executed as of the day and year first above stated.

CONTRACTOR:

CITY OF SANTA ROSA
a Municipal Corporation

Name of Firm: Brightview Landscape
Services Inc.

TYPE OF BUSINESS ENTITY:

☐ Individual/Sole Proprietor
☐ Partnership
☒ Corporation
☐ Limited Liability Company
☐ Other (please specify: _____)

By: _____

Print Name: Mark Stapp

Title: Mayor

APPROVED AS TO FORM:

Signatures of Authorized Persons:

By: _____

Print Name: Michael Dozier

Title: President

Office of the City Attorney

ATTEST:

By: _____

Print Name: Susan DeSantis

Title: Assistant Secretary

City Clerk

City of Santa Rosa Business Tax Cert. No.
_____06508294_____

Attachments:

Attachment One - Insurance Requirements
Exhibit A - Scope of Services
Exhibit B – Locations and Maps
Exhibit B1 – Locations and Maps
Exhibit C & C1 – Compensation Schedule

Exhibit D – IPM Policy
Exhibit E1 – Pesticide Log
Exhibit E2 – Pesticide App Log Guide

**ATTACHMENT ONE
INSURANCE REQUIREMENTS FOR
GENERAL SERVICES AGREEMENTS**

- A. Insurance Policies:** Contractor shall, at all times during the term of this Agreement, maintain and keep in full force and effect, the following policies of insurance with minimum coverage as indicated below and issued by insurers with AM Best ratings of no less than A-:VI or otherwise acceptable to the City.

Insurance	Minimum Coverage Limits	Additional Coverage Requirements
1. Commercial general liability	\$ 1 million per occurrence \$ 2 million aggregate	Coverage must be at least as broad as ISO CG 00 01 and must include completed operations coverage. If insurance applies separately to a project/location, aggregate may be equal to per occurrence amount. Coverage may be met by a combination of primary and umbrella or excess insurance but umbrella and excess shall provide coverage at least as broad as specified for underlying coverage. Coverage shall not exclude subsidence.
2. Business auto coverage	\$ 1 million	ISO Form Number CA 00 01 covering any auto (Code 1), or if Contractor has no owned autos, then hired, (Code 8) and non-owned autos (Code 9), with limit no less than \$ 1 million per accident for bodily injury and property damage.
3. Workers' compensation and employer's liability	\$ 1 million	As required by the State of California, with Statutory Limits and Employer's Liability Insurance with limit of no less than \$ 1 million per accident for bodily injury or disease. The Workers' Compensation policy shall be endorsed with a waiver of subrogation in favor of the City for all work performed by the Contractor, its employees, agents and subcontractors.
4. Pollution Liability	N/A	If the work involves lead-based paint or asbestos identification/remediation, the policy must not contain lead-based paint or asbestos exclusions. If the work involves mold identification, the policy must not contain mold exclusion and the definition of "Pollution" in the policy must include microbial matter, including mold.

B. Endorsements:

1. All policies shall provide or be endorsed to provide that coverage shall not be canceled by either party, except after prior written notice has been provided to

the entity in accordance with the policy provisions.

2. Liability, umbrella and excess policies shall provide or be endorsed to provide the following:

- a. For any claims related to this project, Contractor's insurance coverage shall be primary and any insurance or self-insurance maintained by City shall be excess of the Contractor's insurance and shall not contribute with it; and,
- b. **The City of Santa Rosa, its officers, agents, employees and volunteers are to be covered as additional insureds on the CGL policy.** General liability coverage can be provided in the form of an endorsement to Contractor's insurance at least as broad as ISO Form CG 20 10 11 85 or if not available, through the addition of both CG 20 10 and CG 20 37 if a later edition is used.

C. Verification of Coverage and Certificates of Insurance: Contractor shall furnish City with original certificates and endorsements effecting coverage required above. Certificates and endorsements shall make reference to policy numbers. All certificates and endorsements are to be received and approved by the City before work commences and must be in effect for the duration of the Agreement. The City reserves the right to require complete copies of all required policies and endorsements.

D. Other Insurance Provisions:

1. No policy required by this Agreement shall prohibit Contractor from waiving any right of recovery prior to loss. Contractor hereby waives such right with regard to the indemnitees.
2. All insurance coverage amounts provided by Contractor and available or applicable to this Agreement are intended to apply to the full extent of the policies. Nothing contained in this Agreement limits the application of such insurance coverage. Defense costs must be paid in addition to coverage amounts.
3. Policies containing any self-insured retention (SIR) provision shall provide or be endorsed to provide that the SIR may be satisfied by either Contractor or City. Self-insured retentions above \$10,000 must be approved by City. At City's option, Contractor may be required to provide financial guarantees.
4. Sole Proprietors must provide a representation of their Workers' Compensation Insurance exempt status.
5. City reserves the right to modify these insurance requirements while this Agreement is in effect, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.

Exhibit A: Scope of Work

Parks Landscaping (Roadway Sites)

GENERAL AND MINIMUM SPECIFICATIONS

The Contractor shall furnish all labor, material, equipment, and other services necessary for the complete maintenance of all the landscaped areas.

Landscape areas are defined as all trees, shrubs, header boards, concrete sidewalks, retaining walls, mulched areas, ground cover, flower beds, and paved areas as presently exist and as shown in Exhibit B and B1. Landscaped areas will also include any curbs, driveways, gutters, and sidewalks adjacent to landscape areas. Installation of new landscaping in areas not currently meeting the above definition will be negotiated as separate items and as such are not included in this agreement.

Prevailing Wage is required for and not limited to Landscape Laborer and Tree Maintenance (laborer).

MINIMUM QUALIFICATIONS:

Table of Contents for Minimum Qualifications

A:	Contractor Qualifications and Work Requirements
B:	Personnel
C:	Labor, Quality, and Appearance Level
D:	Work Schedule
E:	Environmental Protection
F:	Reporting and Inspecting
G:	Materials
H:	Soil Management and Fertilization
I:	Irrigation
J:	Trees, Shrubs, and Ground Cover Care
K:	Weed Control
L:	Use of Pesticides
M:	Public Notification for Weed Control
N:	Weed Control Chemical Application Documentation and Records
O:	General Maintenance and Cleanup
P:	Equipment
Q:	Site Specific Requirements

A. Contractor Qualifications and Work Requirements

All services rendered shall be provided in accordance with all ordinances, resolutions, statutes, rules, laws, and regulations of the City of Santa Rosa, and any Federal, State, or local governmental agency having jurisdiction in effect at the time service is provided. The Contractor shall have the following qualifications:

1. License. The Contractor must have a valid California C-27 and D-49 Contractor's license authorized by the State of California and registered with the California Department of Industrial Relations.
2. Chemical Application. The Contractor must have assigned to the project at least one employee possessing a California State Qualified Applicator's License (QAL) in the categories of Right-of Ways and Landscaping (B and C) through the California Department of Pesticide Regulation and be registered with the Sonoma County Agricultural Commissioner with a Pest Control Business License. All pest control work shall be directed by personnel in possession of a QAL.
3. Russian-River Friendly Landscaping. It is recommended that the Contractor have assigned to the project at least one employee or subcontractor who is a qualified Bay-Friendly Qualified Landscaping Professional, to oversee work practices (ReScape.org).
4. Water Efficiency. It is recommended that the Contractor have assigned to the project at least one employee who is a California Landscape Contractor's Association (CLCA) Certified Water Manager. Additional experience preferred includes certification as an Irrigation Association Landscape Irrigation Auditor or Qualified Water Efficient Landscaper. The Contractor shall have familiarity with Santa Rosa Model Water Efficient Landscape Ordinance (MWELo) requirements. [Landscape Standards](#)
5. Recycled Water. Some landscape sites utilize recycled water. The Contractor shall provide evidence that personnel have completed a Site Supervisor Training course provided by the City of Santa Rosa and are trained to use Santa Rosa's recycled water, have the authority to carry out the rules, regulations and requirements for recycled water use as outlined in the Santa Rosa City Code Chapter 14-25, the California Code of Regulations Title 22 and 17, the Division of Drinking Water regulations, Health and Safety Code, and the City of Santa Rosa's Regional Water Quality Control Board Permit.
6. Smart irrigation controllers, 2-way smart technology/flow sensing system is utilized at some landscape sites, in conjunction with Irritrol, Toro, and Hunter. Contractor experience with smart irrigation controllers is preferred. If the Contractor is unable to demonstrate staff experience using smart irrigation controllers, they must have at least one employee meet with the City's representative onsite at one of the landscape sites to be trained on how to program the controller within one month of starting date of the Agreement. The Contractor is responsible for any and all costs associated with this training. For reference the city's current smart controller is WeatherTRAK.
7. Pruning. All tree pruning shall be completed under the direction of a Certified Arborist or Certified Tree Worker (International Society of Arboriculture). This will be validated by providing a list of staff and their pruning credentials for all tree pruning work.

8. Subcontracting. A portion of the work covered by these specifications may be subcontracted with prior approval of the City. The Contractor shall supervise subcontractor and guarantee work quality. Subcontractors and their qualifications must be submitted to the City thirty (30) days before working at the site. All subcontractors must possess the qualifications listed herein.
9. Maintenance services conducted in the roadway must comply with Federal Highway Manual on Uniform Traffic Control Devices (MUTCD), [Caltrans Traffic Operations](#) applicable governmental agencies, and follow notification requirements of the Police and Fire Departments. The Contractor must have experience performing services in roadway medians and roadway-adjacent landscapes.

B. Personnel

1. The Contractor shall provide a list including all Contractor's and subcontractors' employees assigned to any work site and include work schedule and assignment. The Contractor must update the list within 5 business days of any change.
2. The Contractor shall assign a qualified and appropriately trained supervisor to oversee work performed at the work site(s) and to act as the Contractor's liaison with the City representative. The Contractor's supervisor must inspect the sites and provide direction to the Contractor's workers and/or subcontractors. This supervisor shall speak, write, read, and understand English and be capable of writing schedules, monthly reports noting any deficiency that needs correcting and summarizing major activities to be performed in the coming month. This supervisor shall have at least three (3) years of landscape maintenance supervision experience.
3. All Contractor personnel shall adhere to Landscape Contractor industry standards for working attire, including shoes, safety glasses, vests and other equipment required by State Safety Regulations, and uniform shirts with the Contractor's name or logo clearly visible at all times when working at all locations.
4. All Contractor vehicles are to have a readable sign with the Contractor's name or logo and telephone number. Vehicles are to be kept in a clean and presentable condition.
5. The City of Santa Rosa may require dismissal from work on this contract of those employees whom the City deems incompetent, careless, or otherwise objectionable to the public interest. Typical reasons for employees being dismissed are unsafe driving habits, proof of theft or other illegal behavior, or if work habits result in continued complaints from the public.

C. Labor, Quality, and Appearance Level

1. It is the intention of the City to require the highest quality level in landscape maintenance consistent with industry standard practices. The Contractor is expected to assume responsibility for diligently maintaining the landscaped areas with a minimal amount of oversight and direction by the City's designated representative. The City may randomly inspect sites after maintenance activities to ensure the standards are being met. It is also expected that the Contractor, their supervisors, and crew leaders will be proactive in identifying and recommending needed repairs and improvements to existing irrigation systems, drainage, and landscaping within the maintained areas, and communicating these recommendations to the City's designated representative. At a minimum, the Contractor is expected to maintain a satisfactory appearance of the landscaped areas at all times and is encouraged to improve upon the landscape

appearance wherever possible.

2. Unless otherwise provided in the Agreement, the Contractor shall furnish all labor, materials, and equipment for satisfactory contract performance. When not specifically identified in the Agreement, such materials and equipment shall be of suitable type and grade for the purpose. Each item or article shall be subject to inspection and/or test and approved by the City's designated representative when so required. All necessary landscaping equipment needed for the performance of the work of this Agreement shall be furnished by the Contractor. Such equipment shall be of the size and type customarily used in work of this kind and shall meet the approval of the City's designated representative. Equipment deemed by the City's designated representative to be of improper type of design, or inadequate for the purpose intended shall be replaced.
3. The Contractor shall ensure that all work under this agreement is continually supervised by Contractor-employed supervisory personnel who are fluent in conversational English language speech and comprehension, who are technically qualified with a minimum of the requirements outlined in Section A (Contractor Qualifications and Work Requirements) and possesses a level of technical and management skills required to implement modern methods and newly developed horticulture procedures.
4. The Contractor shall ensure that fully qualified, experienced, and trained personnel, directly employed by the Contractor, perform all work under this Agreement.
5. The Contractor shall be responsible for the skills, methods, appearance, and action of the Contractor's employees and for all work done. The Contractor shall instruct all Contractor's employees that they are not required to respond to questions, suggestions, or instruction from City employees other than the City's designated representative(s) for their respective areas of responsibilities. However, a spirit of mutual cooperation is encouraged.
6. The Contractor shall perform the work provided for in this Agreement under the direction of the City's designated representative(s). The City's designated representative(s) will make inspections at any time and may request that the Contractor perform additional work or services to bring the Contractor's performance up to the level required by this agreement.

The Contractor shall cooperate with any representative designated by City to enable said representative to determine the Contractor's conformity with the provisions of this Agreement and the adequacy of the work being performed.

7. The Contractor, with prior approval from the City's representative shall replace in kind and at the Contractor's own expense, , ground cover, trees, shrubs, or irrigation system components requiring replacement through negligence resulting from the Contractor failing to provide maintenance in accordance with the provisions of this Agreement. The City must approve all substitutions. These requirements are not to be construed as requiring the Contractor to replace improvements due to conditions beyond the Contractor's control, but it is to be considered strictly as a normal maintenance condition compatible with accepted practice.
8. The Contractor must at all times exercise necessary precautions to provide for the protection of the public, employees, and the environment.

D. Work Schedule

1. The Contractor is to provide the City with a monthly work schedule describing the work to be performed at each site, hours by job classification and tasks to be completed. This schedule shall be submitted to the City's designated representative no later than the 15th day of the prior month.

The Contractor shall conduct all operations during the hours between 7:00 a.m. and 5:00 p.m. Monday through Friday unless otherwise approved by the City. The Contractor may not work on any Federal, State, or local holidays.

2. Any non-emergency work that may be deemed hazardous or disruptive (i.e., chemical spraying, tree pruning, etc.) shall be scheduled at least two (2) weeks in advance with the City's representative.
3. The Contractor shall obtain written approval from City's representative prior to commencing emergency work.
4. The City reserves the right to change schedules for special events, conflicts with adjacent property owners/tenants within five (5) working days advance notice to the Contractor.

E. Environmental Protection

1. The Contractor must protect all existing plant materials, site improvements, structures, facilities, utilities, and natural areas from damage, both above and below ground. Any damages shall be reported immediately to the City's representative. Any damages caused by Contractor shall be corrected and/or paid for by the Contractor at no cost to the City.
2. The Contractor shall protect property from accidental chemical, fuel, oil, or other contaminant spills.
3. The Contractor shall not wash or blow soil, chemicals, litter, mulch, soil amendments or other materials into storm drains.
4. The Contractor shall be thoroughly familiar with California native wildflower, herbaceous, shrub and tree species, and take care not to eliminate or eradicate California native wildflowers, herbaceous, shrubs, trees, or other installed plants without City approval.
5. Supplies and Equipment: The Contractor shall implement strategies in work operations to reduce fossil fuel consumption and emissions, such as:
 - a. Use hand-powered equipment when possible.
 - b. Minimize use of gas-powered blowers, especially on planting beds.
 - c. Select smallest, most fuel-efficient equipment to accomplish task.
 - d. Consider vehicles that operate on natural gas, biodiesel, or electricity.
 - e. Maintain equipment properly and keep it well tuned.

- f. Use local products and suppliers. The Contractor shall use local products and suppliers (produced within 150 miles from the project site) to the extent possible to minimize fuel consumption and emissions.
- g. Use recycled and salvaged materials. The Contractor shall use salvaged and recycled-content products where possible. Materials for reuse may be found by contacting the CalMax website at www.ciwmb.ca.gov or www.stopwaste.org.
- h. Equipment refueling and repair:
 - i. The Contractor shall refuel and repair equipment in a safe manner to protect against accidental spills.
 - ii. Limit refueling to specific areas on a site.
 - iii. Measures shall be taken to prevent, control, and clean up spills. Cleanups should be immediate, automatic, and routine and performed by a trained staff member or a licensed cleaning company. Keep a spill control kit with Safety Data Sheets (SDS) mandated by the International Hazard Communication Standard (HSC) and required by the Occupational Safety and Health Administration (OSHA) onsite for any chemicals that may be used. Contact the local emergency response team agencies to report all spills.

F. Reporting and Inspecting

1. The Contractor must comply with the City's Integrated Pest Management Policy and any amendments thereto. The Policy is available for reference in Exhibit D: Integrated Pest Management Policy.
2. The Contractor is responsible for submitting chemical usage reports to the Sonoma County Agricultural Commissioner. Copies are to be sent to the City's representative as part of the Contractor's monthly report, Exhibit E1 and E2. Exhibit E1 is the chemical application log and Exhibit E2 are the directions for completion of the E1 chemical application log.
3. Unusual horticultural problems such as pests, disease, and damages that are beyond the scope of the Contractor's responsibility shall be brought to the attention of the City representative immediately.
4. The City, through a designated representative, may make periodic inspections to ensure that complete and continuous maintenance is fulfilled. In addition, the City may obtain the services of a Landscape Architect, Arborist, IPM/PCA or other professional to inspect plantings and make recommendations for improvements in the maintenance program.

G. Materials

1. The Contractor shall submit a list to the City's designated representative of all materials that the Contractor proposes to use in the performance of this work. The list shall include an SDS for each material. Said list shall be submitted before the use of any product pursuant to the provisions of this agreement. Similar listing of changes in materials proposed for use by the Contractor shall be submitted prior to use of the products.

2. The following shall apply to the material indicated:

- a. All products shall be of the best quality obtainable, properly labeled, and brought to each job site in the manufacturer's original container, or appropriate and properly labeled secondary container.
- b. Tree stakes, tree ties, and guy wires shall be of materials matching those existing on a work site, or as specified by the City designated representative.

H. Soil Management and Fertilization

1. General

- a. The Contractor shall become familiar with each site's microclimate(s) and soil conditions, including soil texture, organic matter content and fertility, water holding capacity, and infiltration rate. This information will be needed to recommend management of soil fertility, plant nutrition, and to recommend irrigation changes to the city's designated representative.

The Contractor shall become familiar with plants species present in the site landscape and to identify areas of insect or disease infestation or nutritional deficiency. Avoid removing native California woody landscape species.

- b. The Contractor shall be aware of soil conditions, including runoff and drainage features at each site to identify potential erosion problems and storm water management needs. Alert City-designated representative within 24 hours to any serious drainage, storm water runoff or erosion problems outside of the scope of work of this contract.

2. Align with Russian River Friendly Landscape Guidelines

The Contractor shall be familiar with the Russian River Friendly Guidelines for soil management. Alert city Representative if soil conditions are leading to erosion <https://rrwatershed.org/project/rrflg/> If work, maintenance, or repair results in disturbance to soil, the Contractor must prevent and control soil erosion.

- a. Identify and notify regarding soil erosion problems.

3. Soil Analysis

- a. Identify soil management needs based on site observations. Where stunted growth, yellowed chlorotic, veiny top burn or other unusual leaf and flower color and appearance problems occur and soil infertility is suspected, notify City-designated representative.

4. Organic Mulch

- a. Keep root crowns of all plants free of compost, mulch, and debris.
- b. Notify the City representative when additional mulch is needed.

5. Fertilizers and Soil Amendments

- a. The Contractor shall not use fertilizers and soil amendments.

- b. The Contractor shall notify the City's representative if the Contractor recommends fertilizers and soil amendments.

I. Irrigation

1. General

- a. Landscapes shall be irrigated as needed to maintain plant appearance and health and avoid overspray and water damage to City's hardscape and property.
- b. Most Roadway Landscaped sites do not have a functioning irrigation system. For those locations that have or will have a functioning irrigation system, the Contractor is responsible for verifying the irrigation systems are fully functioning and report any irrigation problems to the City's representative. The Contractor is not responsible for replacing or repairing irrigation.
- c. The city may make repairs and add new irrigation at the sites listed in Exhibit B while the Contractor is in performance of this Agreement. The Contractor is responsible for verifying effectiveness of any new or repaired irrigation systems at any of the sites listed in Exhibit B.
- d. The Contractor must provide irrigation performance tests at times that avoid disrupting business activity at civic sites and that avoid over spraying into traffic lanes, especially during peak traffic hours. All sites are public and therefore the Contractor must avoid disruption to pedestrians and vehicles.

2. System Maintenance and Repair

- a. Throughout the term of this Agreement, the Contractor shall be responsible for the effectiveness of the irrigation systems on the site(s) covered by this Agreement as specified in the General Section above and as required in Section I of this Exhibit A Scope of Work. The Contractor shall:
 - i. Report promptly to the City's designated representative any damage to the irrigation systems. Any mainline, valve, or controller problems shall be reported to the City within 12 hours of observation.
 - ii. The Contractor must turn off water for any leaks observed until a City representative can be on-site to repair.
 - iii. The Contractor shall test the irrigation system regularly and no less than once per month or if dry areas are seen. Do not make repairs, instead contact the city's representative(s) to report any irrigation problem.
- b. The City will complete irrigation repairs after notification from the Contractor.
- c. The City may also request a cost estimate for the Contractor to provide repairs needed. Submittals shall be provided to the City representative for all requested repair components and piping. Repairs shall only be completed upon obtaining written approval from the City's representative. Repairs shall be completed in a timely manner, with same manufacturer's components and operational function.

- d. If the City chooses to have the Contractor carry out the submitted repairs or replacements, the Contractor shall provide labor and equipment.
- e. The City shall have the option of providing replacement parts or having the Contractor provide the parts. The Contractor shall obtain the approval of the City's designated representative before replacing any parts not covered by Section I (Irrigation) Subsection 2a(i), above, or 2a(vi), below.
- f. The Contractor shall provide copies of receipts for materials and/or parts upon request. If parts and materials are approved by the City's representative and purchased by the Contractor, mark-up shall not exceed 10%.
- g. The Contractor shall repair or replace, at the Contractor's expense, any irrigation system equipment damaged as a result of the Contractor's performance. The Contractor must replace all broken items with item of same brand and model. The City must approve all substitutions.
- h. Adjust and trim vegetation around all sprinkler heads to obtain and maintain proper water coverage.
- i. Remove the last sprinkler head from each system and flush lines as needed.
- j. The Contractor shall maintain the irrigation system for optimum performance, as per manufacturers specifications, by inspecting the entire system on an ongoing basis. This includes cleaning and adjusting all sprinkler and bubbler heads, drip emitters and valves for proper coverage.
- k. Irrigation controllers shall be inspected monthly and only adjusted as needed with approval from the City's representative during the irrigation season to ensure that consumption to budget is optimized.
- l. The Contractor shall provide an accurate irrigation controller map showing location of controllers, valves, and distribution systems (mark up of City map is acceptable) and placed in the irrigation controller enclosure. A copy shall be given to the City-designated representative. The City will provide any available as built irrigation drawings for Contractor use as needed and as available.

3. Scheduling and Application

- a. The designated City representative will be responsible for programming and scheduling site irrigation using a monthly consumption to water budget approach, with the goal of managing each site's consumption to its corresponding landscape water budget. The Contractor will not modify the Controller without approval from the designated City representative. The Contractor will make recommendations to the City's representative so that enough irrigation is applied to replace natural water loss from the landscape and maintain plant health. In accordance with the following, the Contractor shall:
 - i. Consider site soil types, plant types, root depths, precipitation rates, weekly net evapotranspiration (ETO), and recommend to the City's Representative an amount of water to apply for each irrigation zone according to these and other

pertinent conditions in order to apply the minimum amount of water needed to maintain plant health.

- ii. The Contractor will recommend to the City's representative a schedule with multiple repeat cycle start times to allow the water to infiltrate into the soil and avoid/eliminate runoff, ponding, and over-watering.
- b. Irrigation water shall be applied at night to reduce water loss from evaporation. City representative will set controllers to operate system between 9 pm and 6 am, where possible.
- c. During each site visit, perform visual verification that the plant material is healthy and that soil moisture is adequate. Check the soil moisture content, root depth and structure with a trowel, shovel, or probe to a depth of 3 to 4 inches. If the soil is dry or overly moist, provide recommendations to the city's representative to adjust irrigation.
- d. The City representative may direct the Contractor to adjust irrigation depending on Contractor recommendation.
- e. The Contractor will be aware that irrigation may be significantly modified during special events to accommodate an event. City representative will keep the Contractor updated on modified irrigation.

4. Seasonal System Maintenance and System Checks

- a. The results of all following checks shall be included in the Contractor's monthly observations. Any necessary repairs shall be reported and carried out as described in Subsection 2, Irrigation System Maintenance and Repairs, above.
- b. At start of maintenance Agreement, and/or in spring of each year, the Contractor shall verify available static water pressure (PSI) and gallons per minute (GPM) at point of connection to water service. Any replacement, relocation or additional materials required as a result of failure to check (PSI) and (GPM) shall be done at the Contractor's expense.
- c. Quarterly System Checks:
 - i. Within 30 days after contract award, the Contractor shall inspect all irrigation systems and report condition of all components to the City-designated representative.
 - ii. The Contractor shall perform three additional system checks: one during system start up in early spring, one in midsummer and one in early fall. Include the system check report with a recommendation for needed repairs based on the findings of the system check. If the check described in (i) above coincides with one of these three checks, it is not necessary to do two checks in the same period.
- d. Controller Seasonal Check—Spring, Summer, and Fall:
 - i. Open the controller cabinet and clean out any cobwebs, dirt, or debris.

- ii. Change the battery and check all wiring connections.
 - iii. If a rain sensor is not attached to the controller, consult with City-designated representative for retrofit options.
 - iv. Adjust time and day on the controller to current condition if approved by the city representative.
 - v. Note any problems on the system check report; necessary repairs shall be reported to the city's representative.
- e. Spray Irrigation System Seasonal Check—Spring, Summer, and Fall:
 - i. Run the system, one valve at a time and inspect for missing, broken, or leaking heads or other water leaks. Flag problem areas and report any problems to the city's representative.
 - ii. Inspect system by checking the point of connection, valves, and sprinkler heads.
 - iii. Test all zones. Flush each valve and circuit.
 - iv. Clean valves, spray nozzles, and filters.
 - v. Trim plants or grass around heads, valve boxes and system components.
 - vi. Adjust heads as needed to minimize overspray.
 - vii. Test entire system for overall performance and distribution uniformity.
 - viii. Any problems with distribution uniformity will be reported and discussed with the City-designated representative.
- f. Drip System Seasonal Check—Spring, Summer, and Fall:
 - i. Remove end caps and flush out any dirt and debris from the system.
 - ii. Replace end caps and run the system, one valve at a time. Flag any broken or missing fittings, emitters, or tubing.
 - iii. Note clogged, broken, or missing emitters and report to City representative.
 - iv. Note pinched or broken tubing and report to City representative. Pinched tubing shall be repaired by the City, not straightened by the Contractor.
 - v. Note any water filters and/or or pressure regulators that are not present on system check report.
 - vi. Identify where emitter location results in overspray and note this and other drip system problems and report to the City representative.

- vii. All necessary repairs approved by the City representative shall be completed in accordance with Section I (Irrigation) subsection 4 (System Maintenance and Repair).

J. Trees, Shrubs, and Ground Cover Care

The Contractor shall maintain all trees, shrubs, and ground cover on the sites covered by this Agreement in a healthy, growing condition by performing the following operations and other work incidental thereto:

1. Pruning and Minor Tree Care (up to 15' above ground)
 - a. The Contractor shall ensure that only professionally qualified personnel using approved methods and techniques perform pruning:
 - i. Excessive pruning or stubbing back shall not be permitted.
 - ii. All pruning cuts shall maintain the branch bark ridge and shall be clearly cut with no tearing of the bark. No flush cuts shall be permitted.
 - iii. Shearing of shrubs and ground cover will be permitted only if specifically approved by the City's designated representative.
 - b. Trees shall be pruned to select and develop permanent scaffold branches that are smaller in diameter than the trunk or branch to which they are attached, and which have vertical spacing from eighteen inches (18") to forty-eight inches (48") inches with radial orientation so as not to overlay one another.
 - c. Under no circumstances shall stripping of lower branches ("raising up") of young trees be permitted. Lower branches shall be retained in a "tipped back" or pinched condition with as much foliage as possible to promote caliper trunk growth (tapered trunk). Lower branches may be cut only after obtaining permission from the City's designated representative.
 - d. Evergreen trees shall be thinned out and shaped when necessary to prevent wind and storm damage.
 - e. Pruning of trees and shrubs shall be done as needed to achieve the following:
 - i. To shape, particularly to correct misshaping caused by the wind.
 - ii. To raise the lower branches of trees above head height wherever they overhang walks or paths.
 - iii. To cut back shrubs and ground cover where they encroach on the walks, paths, paved areas, and fence lines.
 - iv. To remove suckers, watersprouts, and other undesirable growth on trees.

- v. To remove all dead or damaged branches.
 - f. Minor pruning may be done at any time.
 - g. Pruning to remove a hazard shall be done immediately.
 - h. Shrubs and groundcovers shall not be trimmed into un-natural shapes such as boxes – shrubs shall be trimmed to mimic their natural shape.
- 2. Staking and Guying

The Contractor shall maintain and replace stakes and guys with materials approved by the City's designated representative and maintain and replace plant ties to provide support without chafing of bark. Additional stakes or guys shall be placed as needed to correct misshaping caused by wind.
- 3. Fertilizing
 - a. The Contractor shall not provide any services related to fertilizing any landscaping sites.
 - b. The Contractor will notify City's representative when fertilization may be needed.
- 4. Replacement of Plants and Trees
 - a. The Contractor shall remove dead and damaged trees and plants under 15' in height and obtain approval from the city's representative prior to removal of any dead tree. Notify the City's representative of any tree over 15' that is dead, diseased, or dying. City will remove trees over 15' in height and provide final approval/denial for the Contractor to remove trees 15' and under. If approved by the City's representative, the Contractor must cut the tree as close to the base as possible and dispose of the tree.

K. Weed Control

The goal is to eradicate weeds at the sites listed in Exhibit B and B1 per the requirements set forth in this Section K. This Section provides two main categories for weed control below, 1) Planting Areas and 2) Hard Surfaces.

1. Planting Areas

Planting areas include any area listed in Exhibit B and B1 that is not a hard surface.

- a. Requirement: Keep landscaped areas weed free as practical. No weeds higher than 1 foot at any time and preferably under 4 inches or less.
- b. Target Pest: Annual/Perennial weeds
- c. Weed removal techniques include:
 - i. Hand pulling weeds from landscaped areas.

- ii. Mowing (string trimmer) all weeds to target height.
- iii. The Contractor shall recommend to the City to add/replenish mulch for planting areas to suppress weeds. The City will replenish mulch as feasible.
- iv. Pesticides may be used as the last choice in accordance with the City's Integrated Pest Management Policy (Exhibit D).

2. Hard Surfaces

Hard surface areas include concrete, asphalt and gravel-surfaced areas and paved areas such as curb and gutters, sidewalks and similar. Proper maintenance of these areas can minimize the need for weed control. Regular control of weeds in these areas will prevent further damage to hard surfaces and enhance long-term control of weeds. These areas are maintained to enhance access, security, and fire safety.

- a. Requirement: Keep pavement cracks/seams weed-free. All weeds are to be maintained at 4 inches in height or less in areas where pedestrians would need stabilized surfaces such as sidewalks, pathways and similar.
- b. Target Pest: Annual/Perennial weeds. The weed removal techniques include:
 - i. Hand pulling weeds from cracks, margins, and edges.
 - ii. Mowing (string trimmer) all weeds to target height in cracks or other areas.
 - iii. Propane flaming asphalt and concrete areas (cracks/margins). Propane flaming shall only be used during the winter season when plants and surrounding environment is wet. Flaming during rain events is optimal. The Contractor shall always have basic firefighting equipment onsite (fire extinguisher, shovel, axe).
 - iv. Pesticides may be used as the last choice in accordance with the City's Integrated Pest Management Policy (Exhibit D).

L. Use of Pesticides

- 1. The Contractor must, always, follow the City's Integrated Pest Management Policy regarding the use of pesticides (Exhibit D). Any discrepancies between this Exhibit A, and the Integrated Pest Management Policy (Exhibit D) shall be brought to the attention of the city's representative.
- 2. Pesticides shall not be applied at any playgrounds, dog parks, bio swales, designated Open Space, parking lots and picnic areas while in use and at school parks while students are in attendance.
- 3. Any pesticide use control adjacent to school sites must comply with the Health Schools Act. The Contractor is responsible for compliance with the Healthy Schools Act.
- 4. The Contractor may not use herbicide treatments within 24 hours of either predicted rain or within 24 hours after a rain event.

5. The Contractor shall be trained in and use Integrated Pest Management practices, and be responsible for pest control on all trees, shrubs, ground cover, and other site features.
6. Annual weeds are to be controlled during their growing season in the winter and spring when they are most susceptible to cultural control methods. Frequent control when plants are young will enhance overall control in the landscape and prevent them from establishing large populations.
7. Perennial weeds are to be controlled to the extent possible during the winter and spring with cultural control methods when soils are moist, and roots can be fully removed manually.
8. The general non-organic herbicide guidelines (for locations where such herbicides are allowed as part of the Integrated Pest Management Policy) follows:
 - a. Review pesticide labels for time periods for optimum control and weed species control. Most pesticides are ineffective when used at incorrect times in a weed's lifecycle.
 - b. Properly identify all weeds before treatment and limit all pesticide applications to time periods when they are effective.
 - c. Pesticides will not be applied within 15 feet of public paths or on grounds of areas frequented by children without temporary closure.
 - d. Observe all label guidelines, and notes and restrictions on attached Pest Control Manufacturers labels.
 - e. Recommend pest control methods based on landscape type and service frequency.

M. Public Notification for Weed Control

The Contractor will publicly place notification of weed control treatments according to all applicable laws and guidance governing notification. The Contractor must post signs publicly to provide sufficient warning to the public that an herbicide application is planned or has recently occurred. The Contractor shall monitor and maintain the signs during posting period. Signs shall be posted at normal entry points and surrounding the herbicide treatment location(s). Signs shall be printed in both English and Spanish. It is permissible to use small yellow Pesticide Application flags to further identify where herbicides have been applied. Flags are to be used in conjunction with, not as a replacement for, the signs. Indicator dyes may be added to the herbicide mixture to indicate where herbicides have been applied. Posting is not required on traffic medians.

At a minimum, public notification signs shall include the following information:

1. Date and time of planned application.
2. Area(s) within a site to be treated.
3. The item to be eradicated by use of weed control method, i.e. "weeds".
4. Label name of the herbicide(s) being used.
5. Warning to stay out of treated areas for a specific time. Use the product label instructions to determine when re-entry into the treated area(s) is permitted.
6. A statement that additional information can be obtained by contacting the City of Santa Rosa Recreation and Parks Department, Parks Maintenance at 543-3770.

N. Application Documentation and Records for Use of Pesticides

1. The Contractor shall comply with all Federal, State, City and local laws and regulations governing the use and reporting of pesticides.
2. The Contractor must provide written Agricultural Pest Control Recommendations for weed control applications that take place in any site listed in Exhibit B or B1. A copy of each written Agricultural Pest Control Recommendation shall be provided to the City's representative prior to any application for weed control.
3. The Contractor shall provide the City's representative with a written schedule of all chemical weed control applications no later than Wednesday for all applications planned for the following week. The schedule shall include anticipated application dates, locations, areas within a park to receive weed control if applicable, and name of the materials to be used. The Contractor shall notify the City's representative in writing if the schedule is changed, or area is not treated and why.
4. No later than the 10th of each month the Contractor shall provide the City's representative with a detailed monthly written account of all weed control performed for the previous month, complete with locations for each treatment. This information shall include application dates, locations, weed control methods used and quantities of each herbicide. The Contractor shall use the City-approved form for providing this information. See Exhibit E1 and E2.

O. General Maintenance and Cleanup

1. The Contractor shall collect all clippings, trimmings, cuttings, rubbish, litter, and debris at each landscape site covered by this Agreement as follows:
 - a. Leaf litter shall be removed from the landscape sites during each visit.
 - b. Any trimmed vegetation from weeds, shrubs, groundcovers, and trees shall be removed

from each site immediately.

- c. All diseased leaves and plants and branches or larger pruning's shall be removed from the site.
 - d. Non-compostable litter, rubbish and other debris shall be removed from each site and disposed of in a lawful manner at the Contractor's expense. Clippings, trimmings, removed trees, cuttings, rubbish, or debris resulting from Contractor's performance under this agreement shall NOT be deposited in the refuse cans or dumpsters placed by the City at various locations in the areas covered by this agreement. Note: Non-organic debris found on site CAN be disposed of in City dumpsters.
2. The Contractor shall keep all ground cover areas, all areas around shrubs and trees, next to building, fences, sidewalks, paths, curbs, and gutters free from rocks (unless used as mulch), glass, and other debris.
 3. The Contractor shall keep all cracks and seams in sidewalks, curbs, street gutters, and other paved areas relatively free of weeds (meeting the performance goals established in Section K.
 4. The Contractor shall keep all sidewalks and paved areas clear of dead plant material such as leaves, twigs, and branches.
 5. The Contractor shall keep sidewalks and paved areas swept and cleaned of any dirt or soil that might be washed from adjacent slopes or planted areas.
 6. The Contractor shall repair any eroded places on the landscaped area covered by this agreement by replacement of topsoil to bring such eroded places back to original grade. The cause of erosion shall be reported promptly to the City's designated representative.
 7. Work sites shall be left orderly and neat upon completion of work for that particular day.
 8. The Contractor is responsible for all traffic control required as a result of this contract. A traffic plan shall be submitted to and approved by the City Traffic Engineering Division two weeks prior to performing any work requiring traffic control.
 9. The Contractor is responsible for picking up and disposing of trash found on site during the course of their maintenance.

P. Equipment

1. The Contractor shall furnish, maintain, and use sufficient modern and efficient equipment and tools to perform the work required under the provisions of this Agreement. All equipment and tools shall be kept in safe, usable condition with cutting edges properly sharpened. The City's designated representative may direct that the Contractor discontinue the use of any equipment or tools that in the opinion of said representative are not in an acceptably safe and usable condition.

Q. Site Specific Requirements

The following landscape sites have additional or overriding considerations compared to the maintenance standards within this Exhibit A. For each site below, the Contractor shall use the specifications listed in addition to or in replacement of all other specifications.

1. Site ID #I00026NE (Crawford Court Island):
 - a. Mechanical weed removal only. No synthetic herbicide allowed through the duration of the Agreement.

Base Bid Parks Roadway Maintenance

Exhibit B: Location List and Maps

Base Bid, Exhibit B1 contains a list of all roadway sites which require maintenance work as specified in the Scope of Work followed by the corresponding map. Contractor may reference the Map # on the list to locate the map associated with the address. Square feet of all locations are provided as a reference only. Contractor is responsible for verifying the square feet and area of all landscape areas associated with the Scope of Work.

Northeast Quadrant					
Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable
102.	M00002NE, M00003NE	8961.5	Sonoma Ave/2nd St	5767.135742	3194.379883
103.	C00001NE, I00018NE, I00019NE	2586.5	Morgan/9th	2069.761719	516.743164
104.	C00002NE, C00003NE, C00004SE, C00005SE	1857.4	SR Ave/A St	0	1857.355468
105.	C00004NE	16.1	S E St/1st St	0	16.074219
106.	C00005NE, I00029NE	1582.5	Santa Rosa Ave/1st St	1053.057617	529.470703
107.	C00006NE, C00007NE, C00008NE	830.3	Mendocino Ave/College Ave	0	830.307617
108.	C00006SE, C00044NE	2269.5	Farmers Ln/Sonoma Ave	0	2269.519532
109.	C00007SE, C00008SE, C00009SE, M00068NE	8333.4	Farmers Ln/Bennett Val Rd	1072.06543	7261.320313
110.	C00009NE, I00026NE	7162.5	Mendocino Ave/Pacific Ave	6829.451172	333.045898
111.	C00010NE	304.7	Mendocino Ave/McConnell Ave	0	304.711914
112.	C00011NE, C00012NE	438.5	Mendocino Ave/Dexter/Elliott Ave	0	438.479492
113.	C00013NE, C00014NE, C00015NE, C00016NE	1145.3	Mendocino Ave/Steele Ln	0	1145.303711
114.	C00014SE, C00015SE, M00055NE, M00066NE	2742.4	Mission Blvd/Hwy 12	599.767578	2143.121094
115.	C00017NE, C00018NE, C00019NE, C00020NE, M00050NE	4232.5	Steele Ln/Illinois/Armory Dr	1960.357422	2272.157227
116.	C00017SE, C00042NE, C00043NE	2025.0	Farmers Ln/Montgomery Dr	0	2024.986328

Base Bid Parks Roadway Maintenance

Exhibit B1: Location List and Maps

Northeast Quadrant					
Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable
117.	C00021NE, C00022NE	906.4	Mendocino Ave/Administration Dr/Chanate Rd	0	906.428711
118.	C00023NE, C00024NE, C00025NE, I00030NE	3789.1	Bicentennial Wy/Mendocino Ave	977.168945	2811.958984
119.	C00027NE, C00028NE, C00029NE, C00030NE, C00031NE	8385.7	Chanate Rd/Terra Linda Dr	0	8385.65332
120.	C00032NE, M00023NE	2651.0	Humbolt St/Chanate Rd	2340.06543	310.919922
121.	C00035NE	213.1	Bryden Ln/4th St	0	213.104492
122.	C00039NE, C00045NE, I00001NE, M00004NE	3213.5	Brookwood Ave/Montgomery Dr/4th St	1234.908204	1978.570312
123.	C00040NE, I00025NE, I00040NE, M00053NE	6855.5	Farmers/Sun Ridge	6805.320312	50.506836
125.	C00048NE	1735.0	College Ave/Hwy101	0	1734.990234
128.	C00053NE	498.7	Mark West Rd/Cross Creek Rd. Rd	0	498.72168
129.	C00054NE, I00007NE	1588.7	Middle Rincon/Badger	629.957031	958.78418
130.	C00055NE	227.2	Mission Blvd/Randall Ln	0	227.241211
131.	F00001NE, C00033NE, C00034NE, I00043NE	1064.4	North St/Spencer/Pacific	714.551758	349.800782
132.	F00002NE, F00015NE	30987.7	Lake Park Dr/Bicentennial Wy	24305.03027	6682.624024
134.	F00004NE	17343.1	Brush Creek Rd/Forest Glen Wy	14623.24609	2719.866211
135.	F00005NE, M00025NE, M00026NE	20259.2	Montecito Blvd/Baird Rd	16666.57715	3592.630859
136.	F00006NE	19059.2	Calistoga Rd/Badger Rd	16515.83789	2543.332031
137.	M00028NE, M00029NE, M00030NE	7475.6	Montecito Blvd Islands	6834.615234	640.936524
138.	F00010NE, F00002SE, M00008NE, M00009NE, M00010NE, M00052NE, M00062NE, M00069NE	29955.1	Mountain Hawk/Hwy 12	22251.41309	7703.692383

Base Bid Parks Roadway Maintenance

Exhibit B: Location List and Maps

Northeast Quadrant					
Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable
142.	F00016NE, C00036NE, C00037NE, C00038NE, I00024NE	12440.4	4th St/College Ave	9189.232422	3250.988282
157.	I00002NE, I00003NE	1437.9	Dupont Dr/Calistoga Rd	1437.853515	0
158.	I00004NE, I00005NE	6137.5	Yerbe Buena Rd/Saint Francis Rd	6137.478516	0
159.	I00006NE, I00033NE	18606.7	Casita/La Cuesta Dr	18606.7168	0
160.	I00008NE	937.7	Woodland Shadows Pl/Montecito Ave	937.674805	0
161.	I00009NE, I00028NE	2174.1	Humbolt St/Mervyn Ave/Chanate Rd	2174.110352	0
162.	I00010NE	1040.9	Knob Hill Dr	1040.881836	0
163.	I00011NE, I00035NE, I00036NE, I00037NE, I00038NE, I00039NE	4614.6	Pine Rock/Alita Vista Ave	4614.55664	0
164.	I00012NE	13169.3	Middle Rincon Rd/Speers Rd	13169.31152	0
165.	I00015NE, I00016NE, I00020NE, I00021NE	1241.2	Spring St/16th/14th	1241.226562	0
166.	I00017NE	590.5	Illinois Ave/Sucher Ln	590.484375	0
168.	I00034NE	93.0	Canyonside Dr/Trailwood Dr	92.958008	0
169.	I00041NE, I00042NE	433.2	Benton St/Glenn St/Morgan St	433.233399	0
170.	M00001NE	2022.1	Beaver St/7th St	1573.432617	448.652344
172.	M00007NE	852.8	Rivera Dr/Shady oak Pl	662.118164	190.72168
173.	M00024NE	4544.4	Montecito Blvd/Middle Rincon Rd	3937.946289	606.457031
174.	M00027NE	4419.8	Montecito Blvd/St Mary Dr	3988.72168	431.080078
178.	M00048NE, M00049NE	15625.6	County Center Dr	14720.33594	905.241211
183.	M00071NE	7665.5	3rd St/Morgan St	1326.628906	6338.871094
Total		302532.5		220102.4	82430.7

Base Bid Parks Roadway Maintenance

Exhibit B1: Location List and Maps

Southeast Quadrant					
Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable
184.	C00001SE	1119.1	Santa Rosa Ave/Hearn Ave	0	1119.081055
185.	C00002SE, C00003SE	559.7	Santa Rosa Ave/Barham Ave	0	559.742188
187.	C00012SE, C00013SE, I00012SE	4044.1	Mission Blvd/Montgomery Dr	2511.862305	1532.219727
188.	C00016SE, M00012SE	1238.0	Montgomery Dr/Summerfield Rd	215.818359	1022.205078
189.	F00004SE, I00010SE	14469.5	Newanga Ave/Kieran Ct	11222.375	3247.094727
190.	F00005SE	7611.4	Parktrail Dr/Summerfield Rd	5396.167969	2215.270508
191.	F00006SE , I00006SE, M00008SE, M000011SE	32083.6	Summerfield Rd/Carissa Ave	31756.72363	326.833008
192.	F00008SE, M00006SE, M00007SE	62014.2	Summerfield Rd/Bethards Dr	84,486.97	2613.533
193.	M00003SE, M00004SE, M00005SE	9652.5	Bethards Dr/Knolls Dr	5772.960937	3879.556641
194.	C00010SE, F00011SE	3317.1	Bennett Vally Rd/Gordon Ln	0	3317.052734
195.	F00012SE	15664.0	Petaluma Hill Rd/Breeze Wy	10801.53223	4862.430664
196.	F00013SE, F00014SE, F00015SE	31937.0	Petaluma Hill Rd/Kawana Springs Rd	23441	8496
197.	F00017SE, I00013SE	14969.5	Old Petaluma Hill Rd/ Winterhaven Ave	14969.48828	0

Base Bid Parks Roadway Maintenance

Exhibit B1: Location List and Maps

	Southeast Quadrant				
Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable
198.	F00018SE, C00018SE, I00014SE, I00015SE	20893.9	Santa Rosa Ave/Bellevue Ave	17845.90332	3048.039062
200.	F00020SE	1949.6	Stonehedge Dr/Westminster Pl	1268.800781	680.832031
201.	I00001SE, I00002SE	9144.6	Cliffwood Dr/Oakmont Dr	9144.624024	0
202.	I00003SE	648.2	Pressley St/Grand Ave	648.19043	0
203.	I00004SE, I00005SE	6500.7	Tachevah Dr/Knolls Dr	6500.680664	0
204.	I00008SE	3711.7	Santa Margarita Ct/Annadel Heights Dr	3711.717773	0
205.	I00009SE	1011.0	Comfrey Pl/Parktrail Dr	1011.038086	0
206.	I00011SE	3038.9	Honor Oak Ct/Newanga Ave	3038.94043	0
207.	I00016SE	1075.4	Belhaven Ct/Belhaven Cir	1075.424805	0
208.	I00019SE	3711.7	Santa Rosa Ave/Baker Ave O/C	3711.667969	0
209.	I00020SE	1822.5	Woodley Way/ Woodley Pl	1822.522461	0
210.	M00001SE	17508.2	Hillsdale Dr/Ridgegreen Dr	17396.88672	111.263672
211.	M00002SE	883.7	Sidney Sq/Fir Dr	338.058594	545.675781
212.	M00009SE, M00010SE	8725.2	Santa Rosa Ave/Yolanda Ave	6330.521484	2394.69629
213.	M00011SE	1041.2	Twin Ct/Horseshoe Dr	217.580078	823.65918
Total		280346.3		264637.5	40795.2

Base Bid Parks Roadway Maintenance

Exhibit B1: Location List and Maps

	Southwest Quadrant				
Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable
214.	C00001SW, C00024NW	1261.9	Dutton Ave/Hwy 12	0	1261.871094
215.	C00002SW, C00005SW	1646.7	Hearn Ave/Dowd Dr	0	1646.697265
217.	C00004SW, M00006SW	5120.9	Sebastopol Rd/N Wright Rd	3032.871094	2088.0625
222.	F00005SW, M00007SW	133783.7	Fresno Ave/Northpoint Pkwy	112466.002	21317.68457
225.	F00008SW, F00012SW	12775.8	Lone Star Ct/Rain Dance Way	9686.270508	3089.50293
226.	F00010SW	4632.2	Burgess Dr/Rain Dance Way	2940.06543	1692.086914
231.	M00001SW, M00002SW, M00003SW, M00004SW	19029.9	Sebastopol Rd/Doubles Dr	14589.06641	4440.84082
Total		178251.0		142714.3	35536.7

Base Bid Parks Roadway Maintenance

Exhibit B1: Location List and Maps

Northwest Quadrant					
Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable
235.	C00002NW, M00021NW	1372.5	Guerneville Rd/Marlow Rd	0	1372.538086
236.	C00003NW, C00004NW	3638.3	Guerneville Rd/Ridley Ave	0	3638.314453
237.	C00005NW, C00006NW	3207.7	Guerneville Rd/Lance Dr	0	3207.749023
238.	C00007NW, M00002NW	11838.2	Guerneville Rd/Coffey Ln	7689.568359	4148.62207
239.	C00008NW, I00001NW	2188.3	Steele Ln/Coffey Ln/North Coast St	1649.111328	539.22168
240.	C00009NW, C00010NW, C00011NW, I00017NW	4883.4	Guerneville Rd/Range Ave/W Steele Ln	4006.573242	876.805664
241.	C00012NW, C00013NW, C00014NW, C00015NW	4326.2	Range Ave/Piner Rd	0	4326.176757
242.	C00016NW, C00017NW, C00018NW, C00019NW	6977.3	Cleveland Ave/Industrial Dr	0	6977.291016
243.	C00020NW, I00019NW	2682.3	Cleveland Ave/Ripley St	2033.274414	649.053711
244.	C00021NW, C00022NW, I00018NW, M00012NW	4218.1	Cleveland Ave/W Steele Ln/Guerneville Rd	1139.413086	3078.679687
245.	C00023NW	339.9	W 3rd St/Roberts Ave	0	339.876953
246.	C00025NW, M00017NW	9769.2	Fulton Rd/Chatham Dr	7153.151367	2616.00879
247.	C00027NW, I00020NW, I00021NW	3427.2	Fulton Rd/Guerneville Rd	2997.071289	430.143555
248.	C00028NW, I00015NW, I00016NW, I00022NW	5910.9	Stony Point Rd/W 3rd St	5910.858398	0
252.	C00035NW	395.5	Piner Rd/Smart Train	0	395.512695
253.	F00002NW	16943.9	Barnes Rd/Hopper Ave	8777.147461	8166.77832
254.	F00007NW	5368.5	Coffey Ln/San Miguel Rd	4325.640625	1042.856445
255.	F00008NW	1896.0	Coffey Ln/Walnut Creek Rd	1539.969727	356.046875

Base Bid Parks Roadway Maintenance

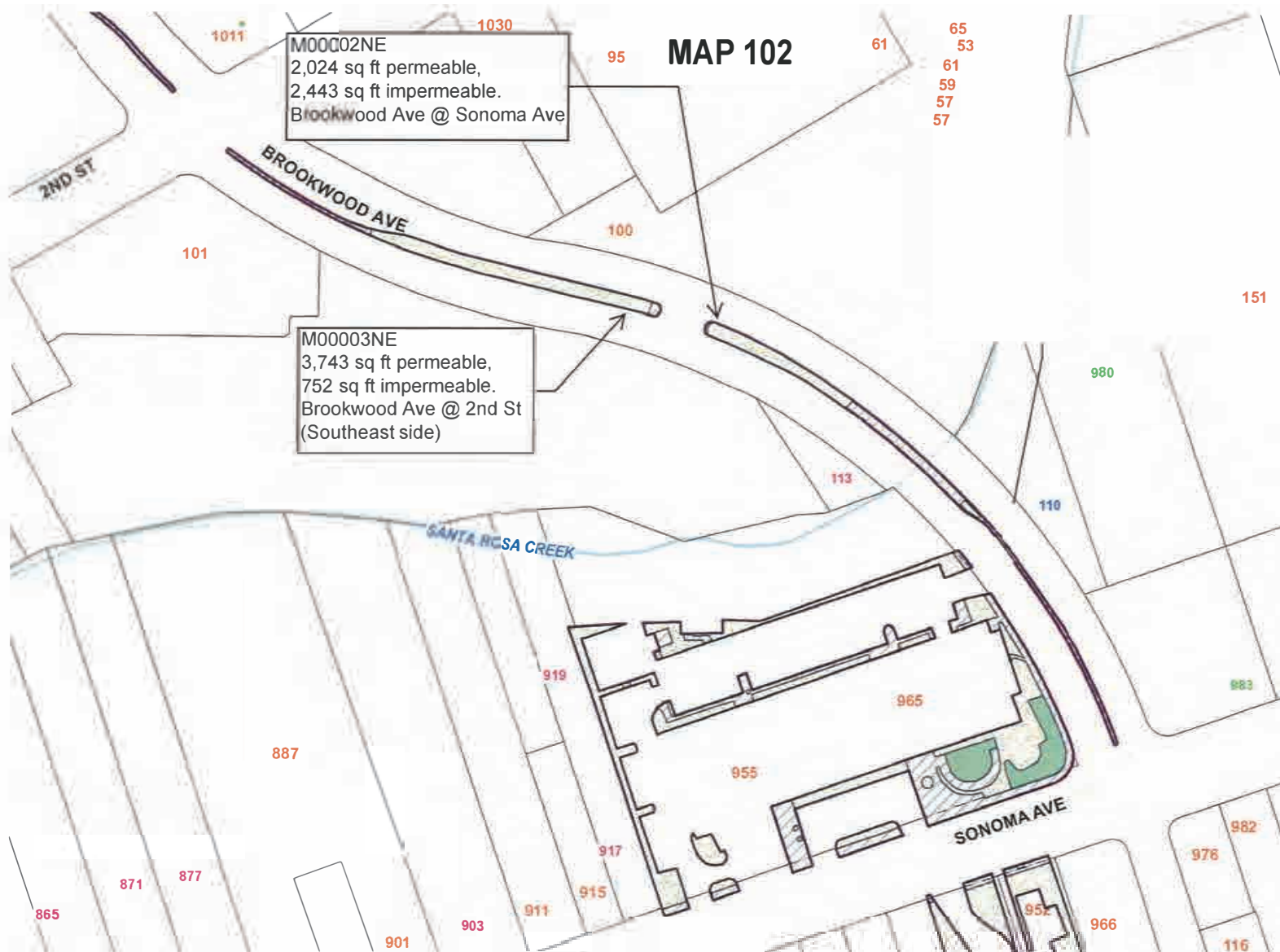
Exhibit B1: Location List and Maps

	Northwest Quadrant				
Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable
257.	F00010NW, F00011NW	25352.9	Piner Rd/Kirkhill St	16008.68945	9344.220703
258.	F00012NW, F00013NW, F00014NW	35720.4	Piner Rd/Peterson Ln	27041.66504	8678.75586
259.	F00015NW	30396.5	Piner Rd/Fulton Rd	22969.55371	7426.983398
260.	F00016NW	67115.7	Piner Rd/Fulton Rd	52744.38379	14371.36426
261.	F00017NW, F00018NW	14305.1	Fulton Rd/Wishing Well Way	10155.87891	4149.238282
264.	F00023NW, F00024NW, M00020NW	25403.8	Guerneville Rd/Gamay St	18099.05859	7304.718749
265.	F00025NW, F00026NW, M00019NW	36585.7	Guerneville Rd/Gamay St	23920.27149	12665.41016
266.	F00027NW, M00018NW	13816.3	Guerneville Rd/Covent Garden	9000.478516	4815.771485
267.	F00028NW, F00029NW, F00030NW, M00028NW	20323.4	Guerneville Rd/Centurion Dr	13178.60352	7144.766601
268.	F00031NW, F00032NW	8780.2	Fulton Rd/Green Vale Ct	6643.166992	2137.008789
269.	F00033NW, C00026NW	26870.9	Fulton Rd/Fulton Pl	20471.23047	6399.673828
270.	F00034NW	9225.1	W College Ave/W Cottage Pl	6645.833984	2579.307617
271.	F00036NW	2068.2	W College Ave/Putney Dr	1679.717773	388.454102
273.	F00039NW, F00040NW, F00041NW	13252.1	College Ave/Tyara Way	9284.117187	3968
274.	F00042NW, C00001NW, I00002NW	14865.7	N Dutton Ave/W College Ave	11180.06152	3685.610352
275.	F00043NW, I00004NW, I00005NW, M00015NW	20349.2	W 3rd St/Fulton Rd	17435.18457	2914.028321
276.	F00045NW, I00010NW, I00011NW, I00012NW	33957.8	W 3rd St/Malibu Cir	30321.71094	3636.064453

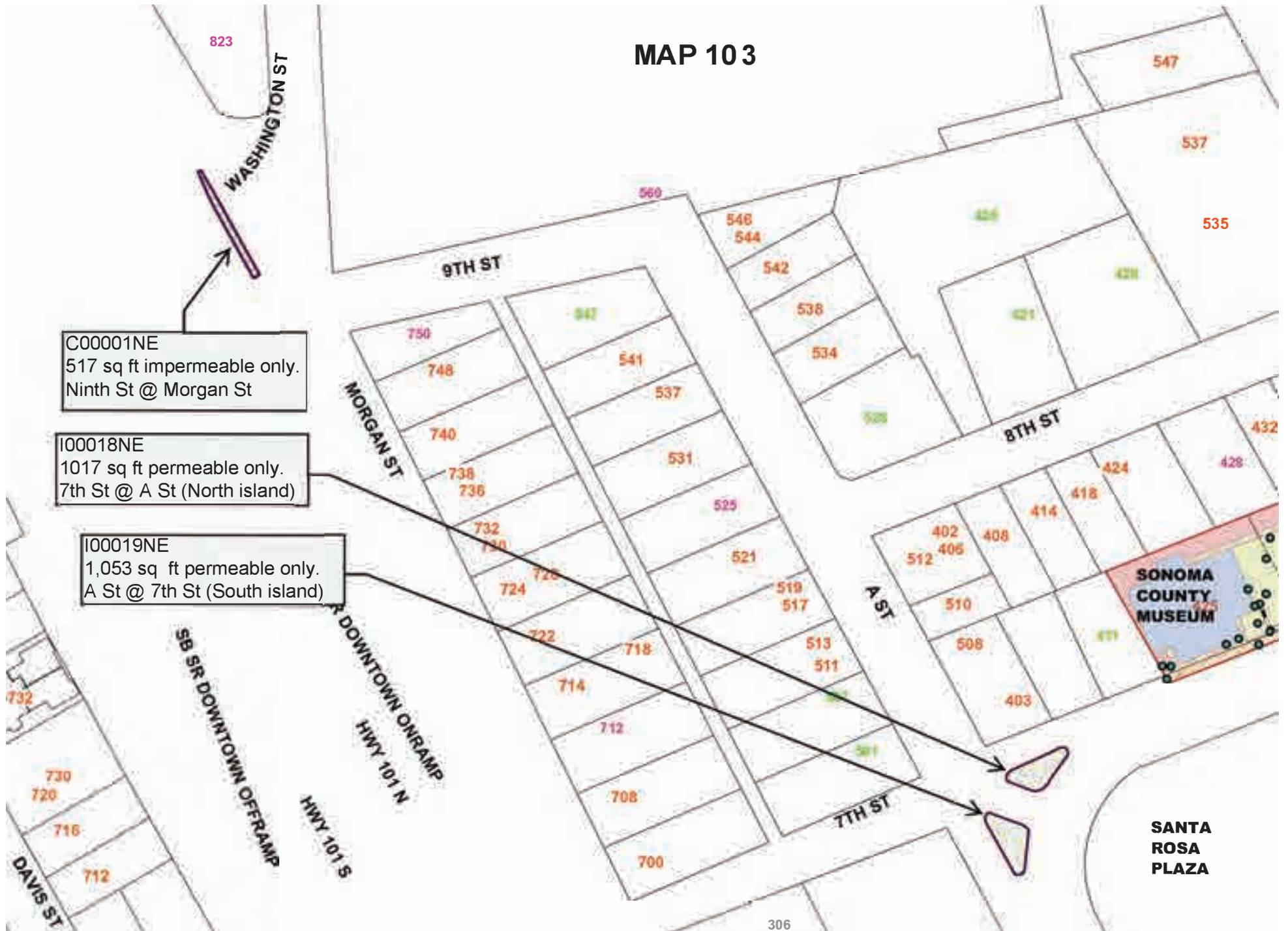
Base Bid Parks Roadway Maintenance

Exhibit B1: Location List and Maps

Northwest Quadrant					
Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable
277.	F00046NW	16471.1	W 3rd St/Rusch Dr	11826.11816	4644.960938
278.	F00047NW	34359.7	Occidental Rd/Nicholas St	26303	8056.688477
279.	F00048NW	25728.3	Occidental Rd/Yonkers St	20101.21289	5627.104492
280.	M00014NW	65690.4	Fulton Rd/Darla Dr	65021.21	669.21
281.	I00006NW, I00023NW	18693.8	W 3rd St/Darla Dr	18693.79785	0
282.	I00007NW, I00008NW, I00009NW	17505.2	W 3rd St/Valley West Dr	17505.24414	0
283.	I00013NW, I00014NW	13800.8	W 3rd St/Harvest Ln	13800.81055	0
284.	M00001NW	776.1	Sundance St/Holiday St	40.404297	735.673828
285.	M00003NW, M00007NW, M00008NW	1861.6	Stony Point Rd/W 9th St	1013.083008	848.527344
286.	M00004NW, M00005NW, M00006NW, I00003NW	9272.8	W 9th St/W 8th St	8464.494141	808.28125
287.	M00013NW	6163.9	Fulton Rd/ San Pedro Dr	5160.509766	1003.370117
288.	M00016NW	7885.0	Fulton Rd/Hall Rd	7135.466797	749.563477
290.	M00029NW	2184.7	3rd St/Wilson St	1327.073242	857.62793
294.	C00057NE, C00058NE	935.0	Santa Rosa Ave/Pine St	0	935
295.	M00073NW, M00074NE, M00075NE	3008.0	Santa Rosa Ave/Charles St	2083	925
Total		712108.9		542476.8	169632.1



MAP 103



MAP 104

C00002NE
730 sq ft impermeable only.
South A St @ Santa Rosa Ave

C00003NE
588 sq ft impermeable only.
South A St @ Bosley St
(pedestrian island)

HWY 12 W

C00004SE
406 sq ft impermeable only.
Santa Rosa Ave @
Petaluma Hill Rd

HWY 12 E

C00005SE
134 sq ft impermeable only.
Petaluma Hill Rd @
Santa Rosa Ave

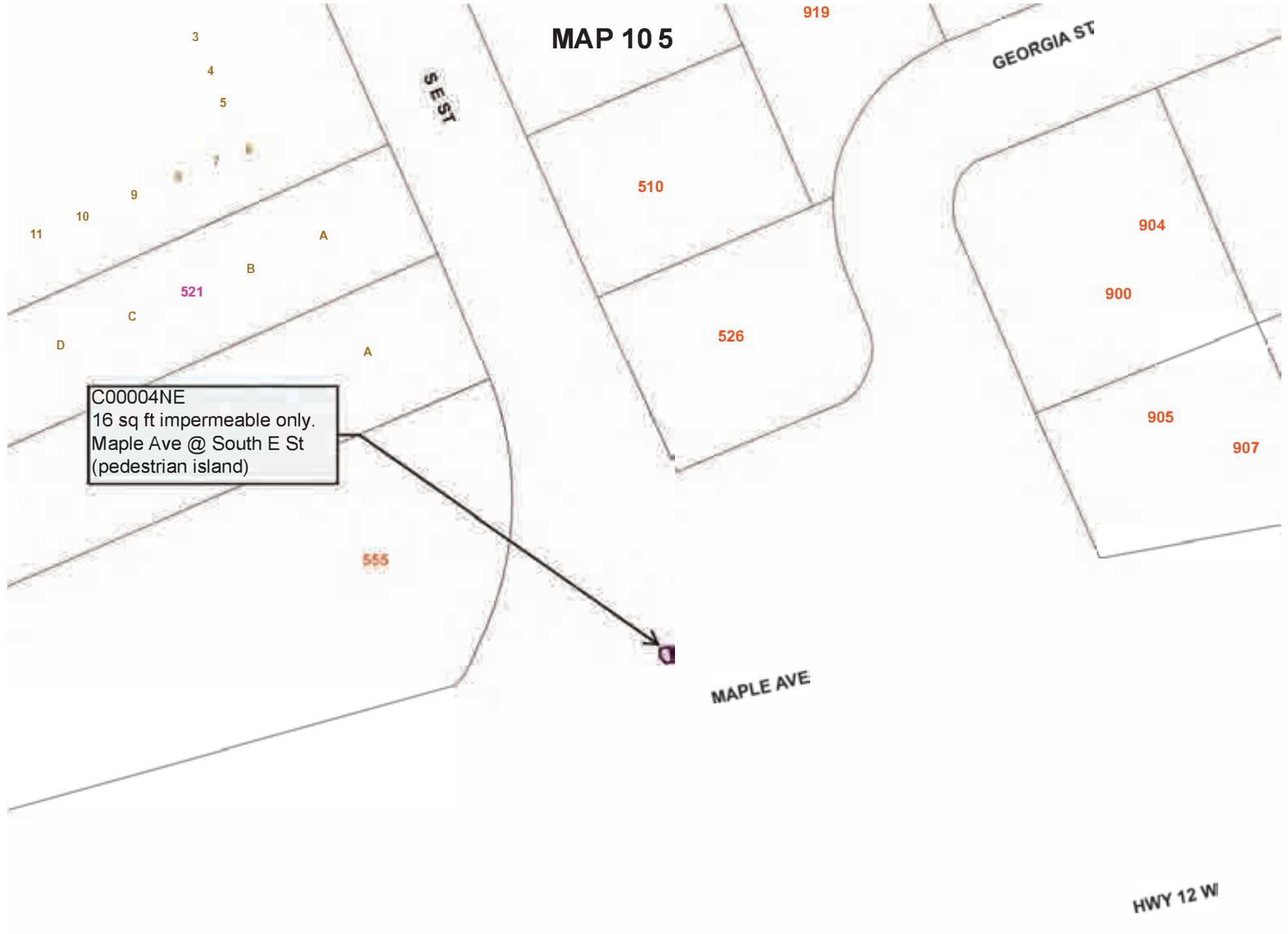
~~NB 101 TO EB 12~~

BENNETT VALLEY RD

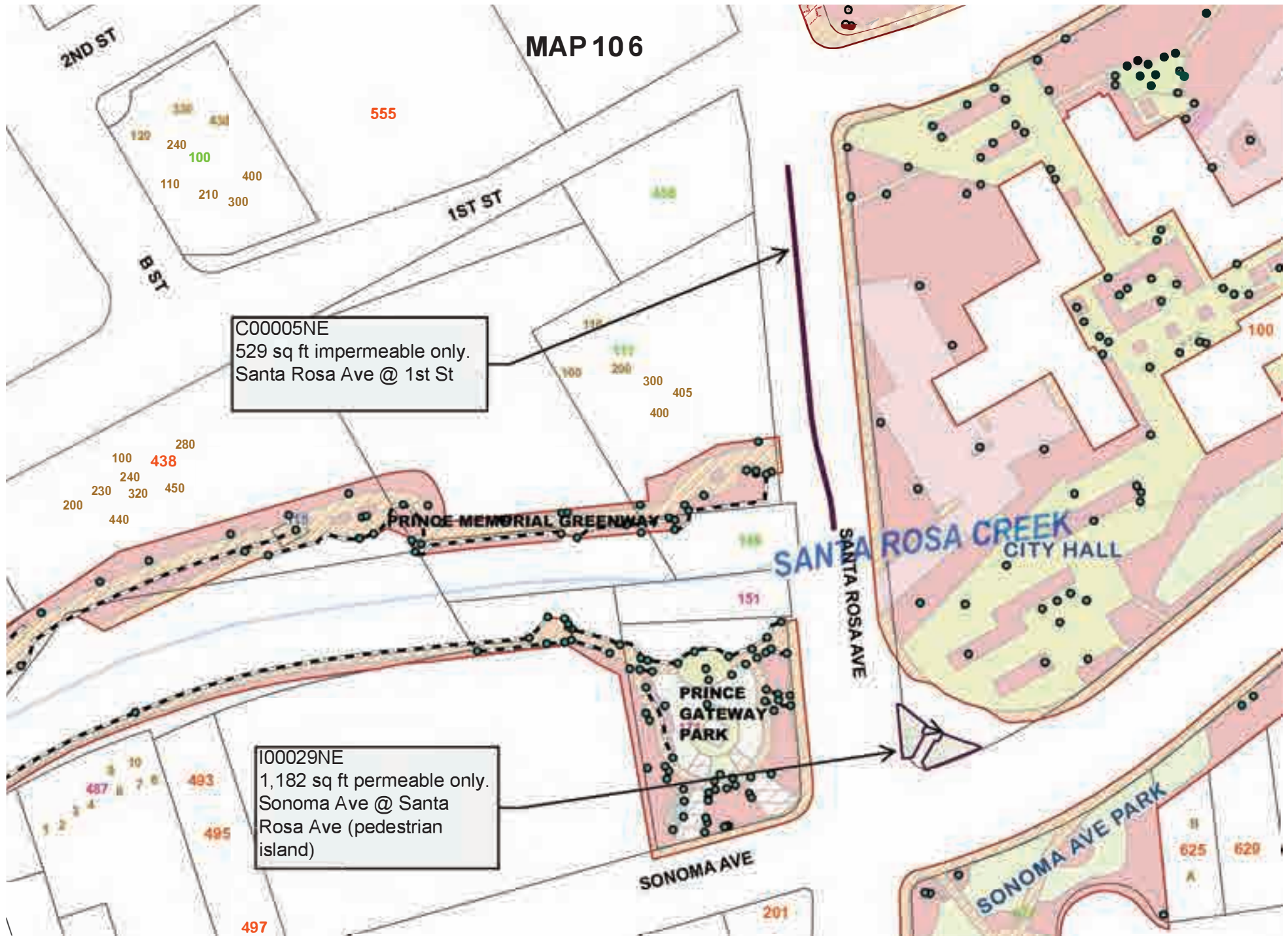
SANTA ROSA AVE

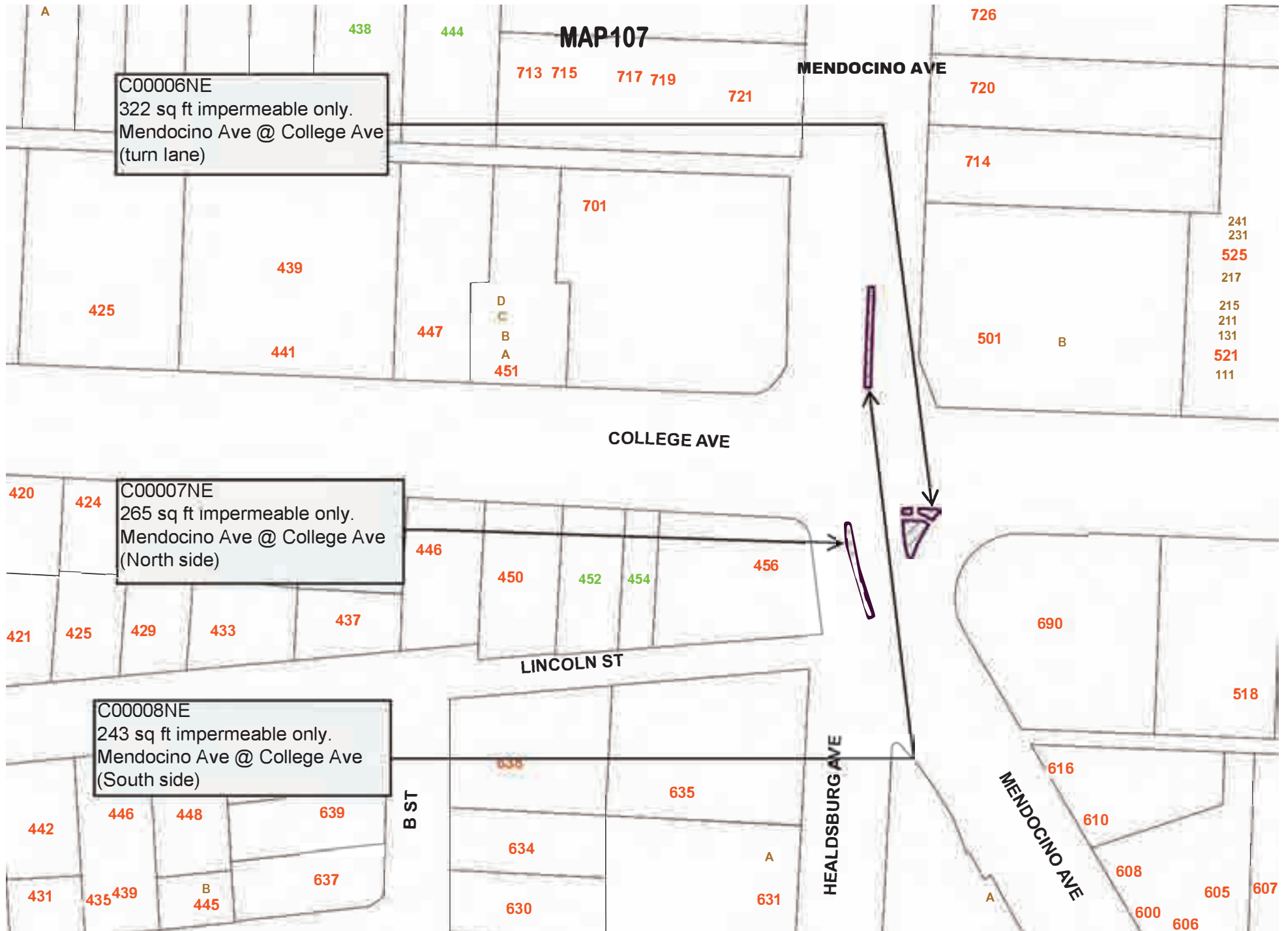
A map showing the location of the project on Petaluma Hill Rd. The road is labeled "PETALUMA HILL RD" and runs diagonally from the top left to the bottom right. A red line segment is drawn along the road, indicating the project location. An arrow points to the start of this red segment.

MAP 105

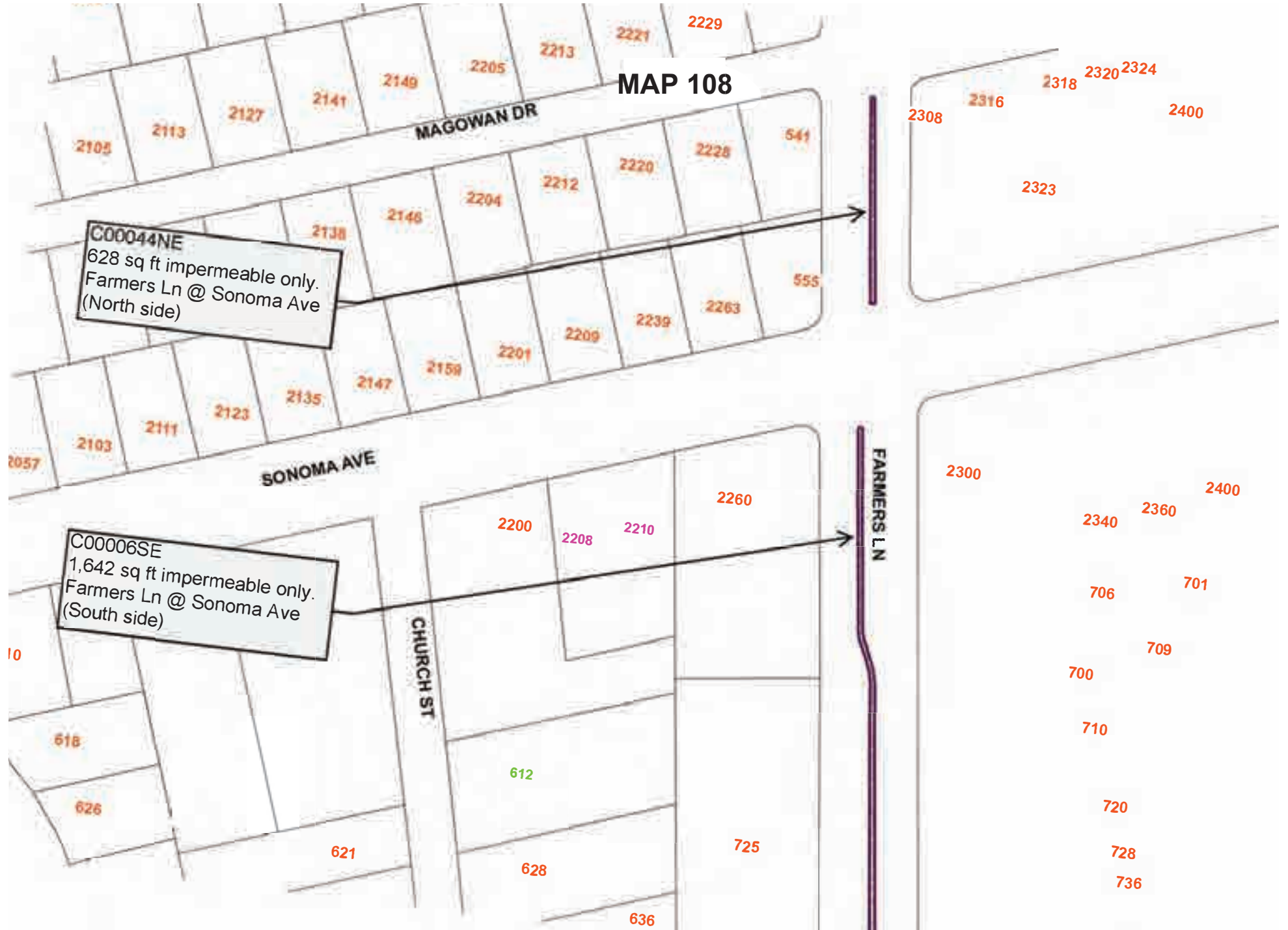


MAP 106

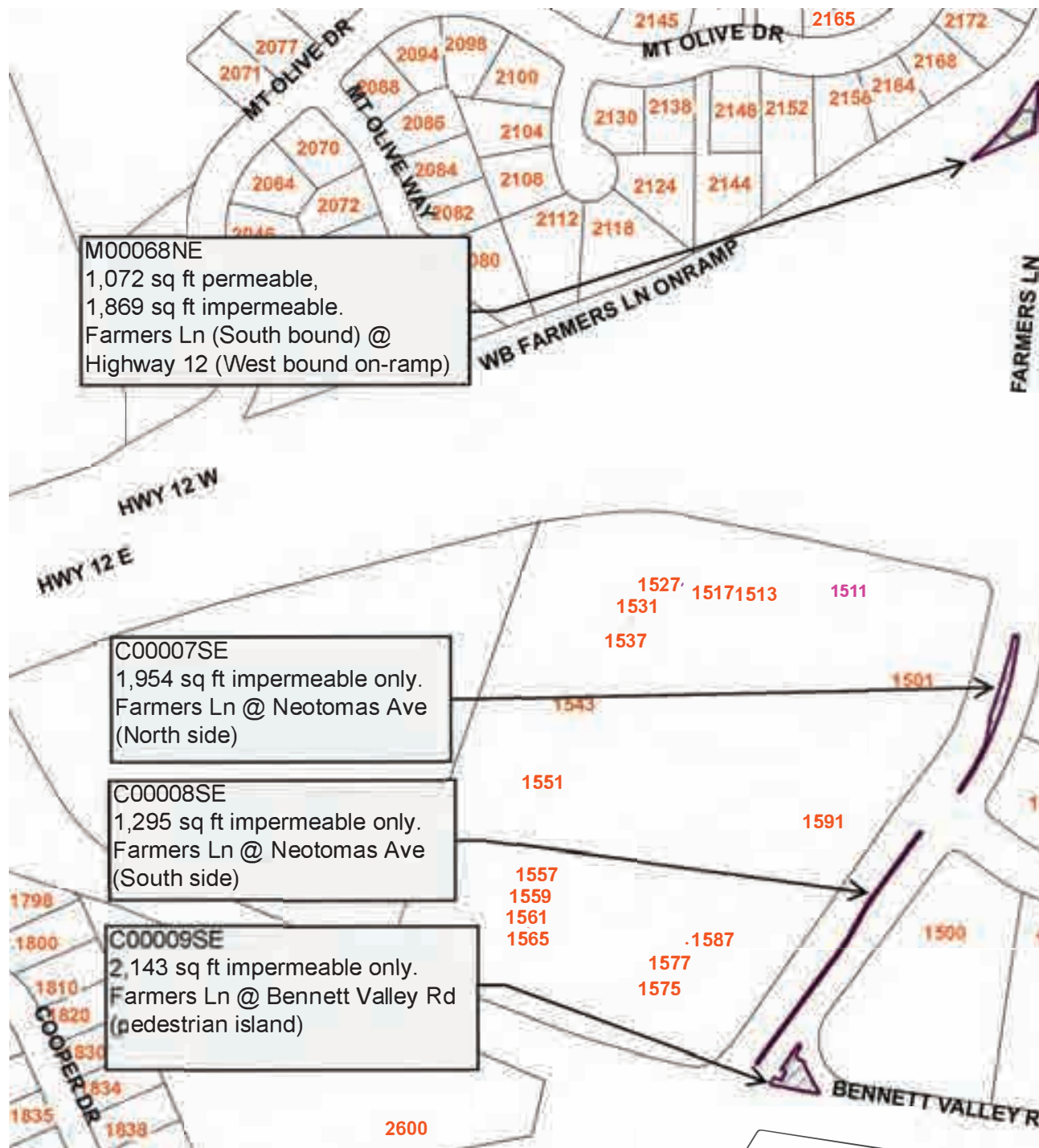




MAP 108



WB HOEN AV ONRAMP



MAP 110

SANTA ROSA JUNIOR COLLEGE

BEAR CUB WAY

C00009NE
333 sq ft impermeable only.
Mendocino Ave @ Pacific Ave

I00026NE
6,829 sq ft permeable only.
Crawford Ct @ Mendocino Ave

SANTA ROSA HIGH SCHOOL

MENDOCINO AVE

PACIFIC AVE

SLATER ST

CRAWFORD CT

1235

1416

533

545

1300

546

540

1264

12811279

12771275

1250

1240

1135

1224
1222
1220
1216

56
54
52

50

46

40

1129

1127

1125

1123
36

1122

18

24

30

1121

1120

10
12

28

1119

600

1290

1270

1260

1254

1250

1132

1124

1118

1108

MAP 111

200

BURBANK CIR

MENDOCINO AVE

1540

1500

MCCONNELL AVE

1501

100

C00010NE
305 sq ft impermeable only.
Mendocino Ave @
McConnell Ave (2 islands)

1470

1462

530

524

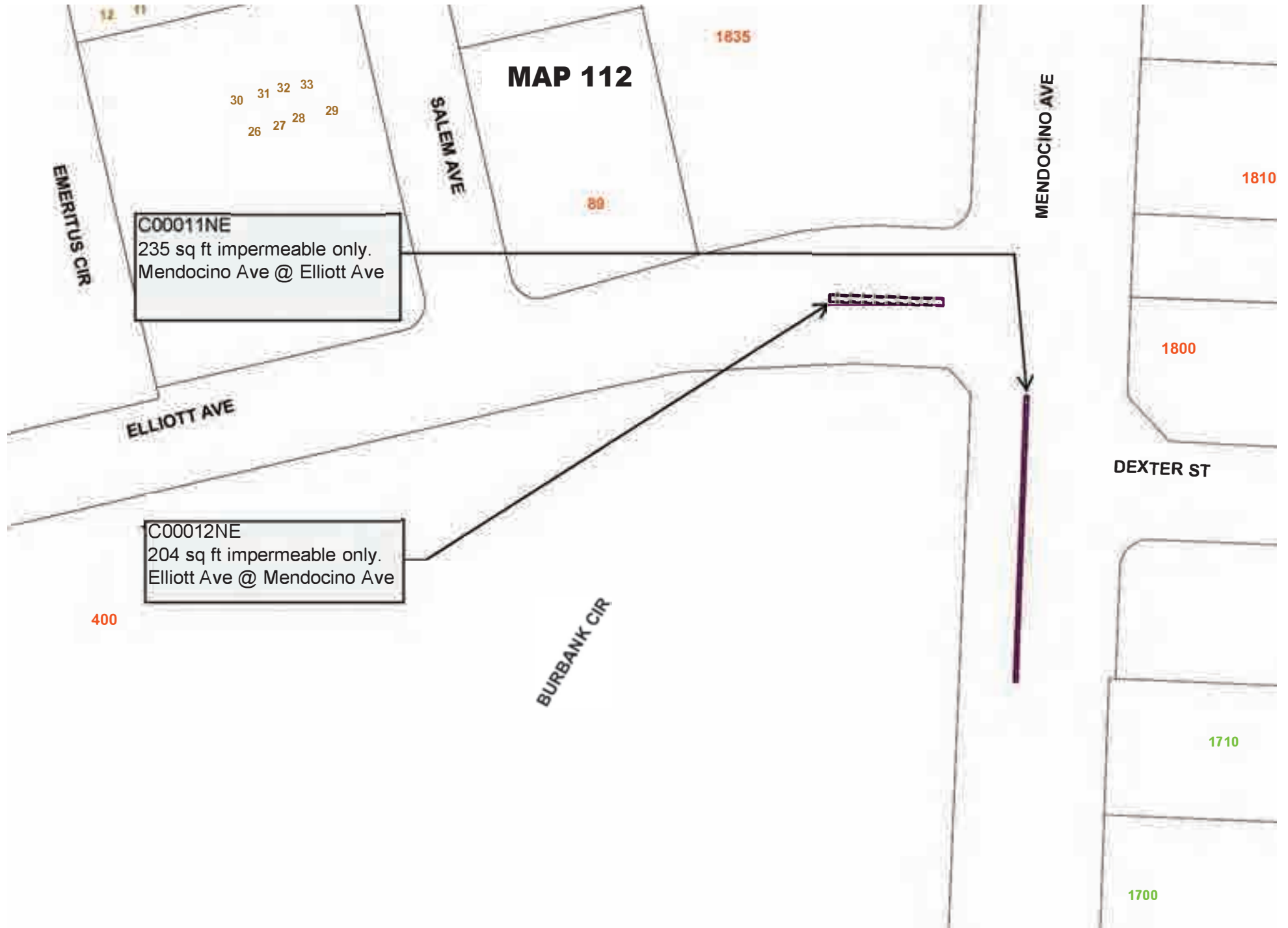
SANTA ROSA JUNIOR COLLEGE

1452

500

1426

MAP 112



MAP 113

C00013NE

184 sq ft impermeable only.
Mendocino Ave @ Steele Ln
(North side)

C00016NE

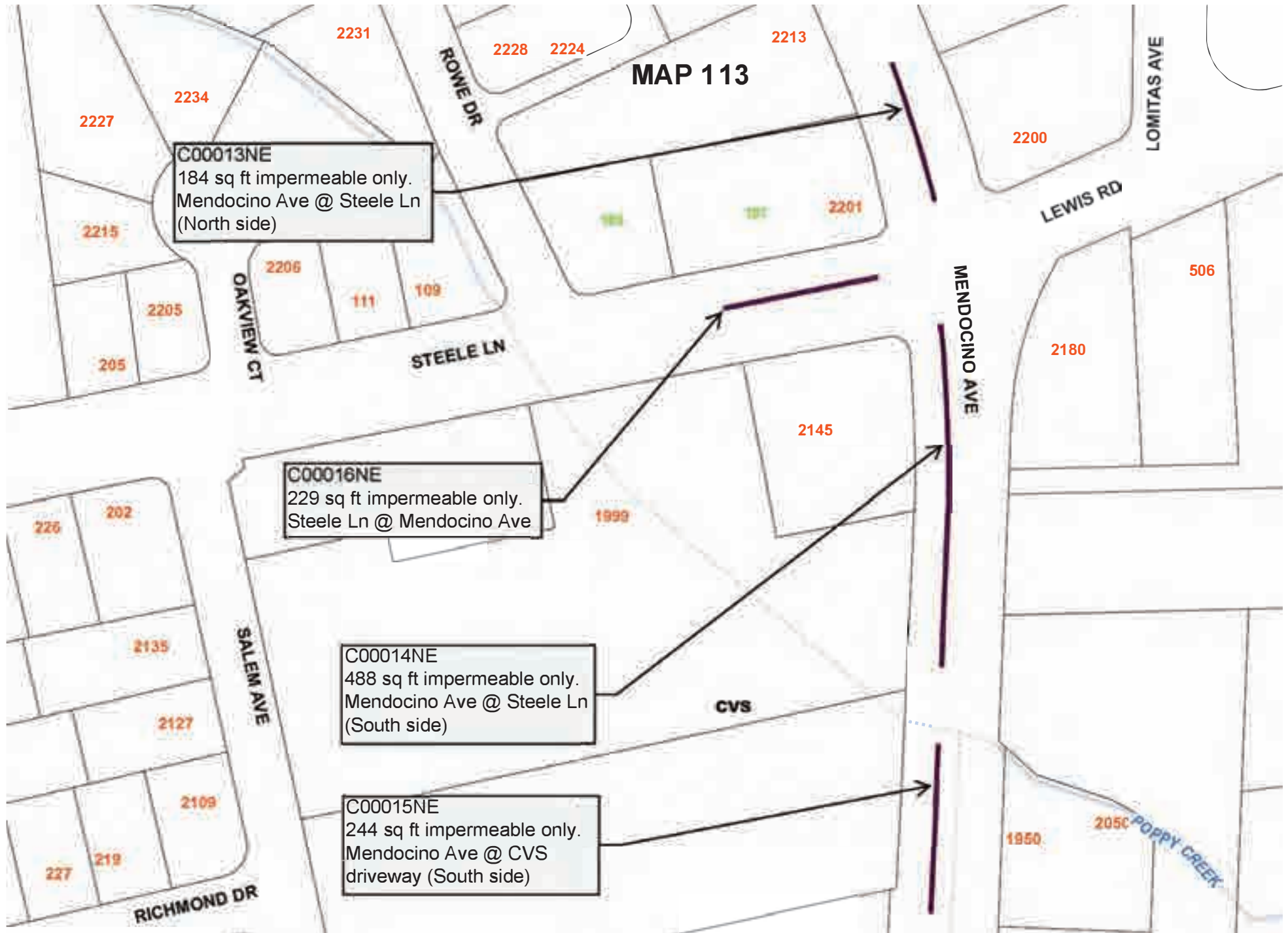
229 sq ft impermeable only.
Steele Ln @ Mendocino Ave

C00014NE

488 sq ft impermeable only.
Mendocino Ave @ Steele Ln
(South side)

C00015NE

244 sq ft impermeable only.
Mendocino Ave @ CVS
driveway (South side)



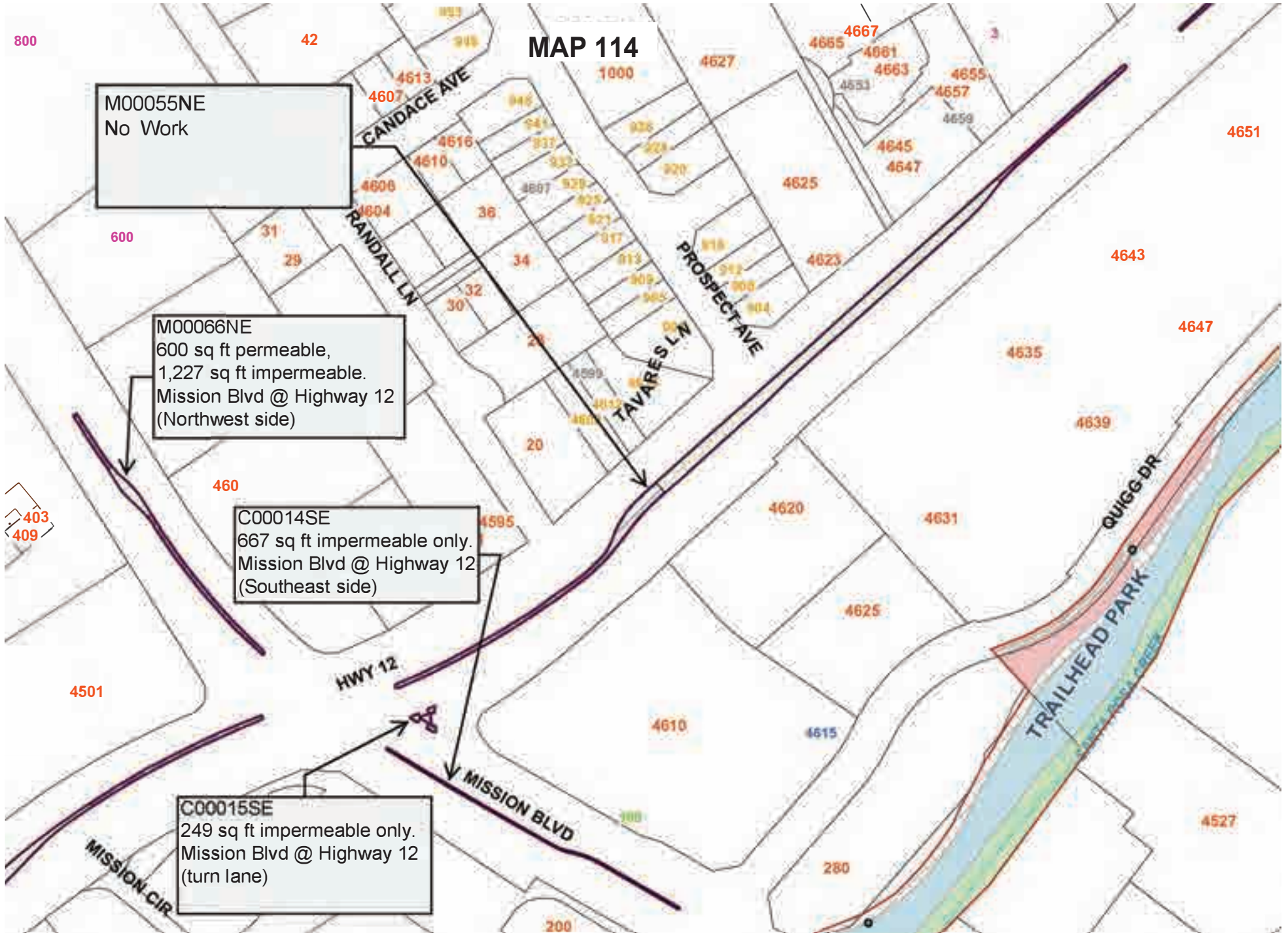
MAP 114

M00055NE
No Work

M00066NE
600 sq ft permeable,
1,227 sq ft impermeable.
Mission Blvd @ Highway 12
(Northwest side)

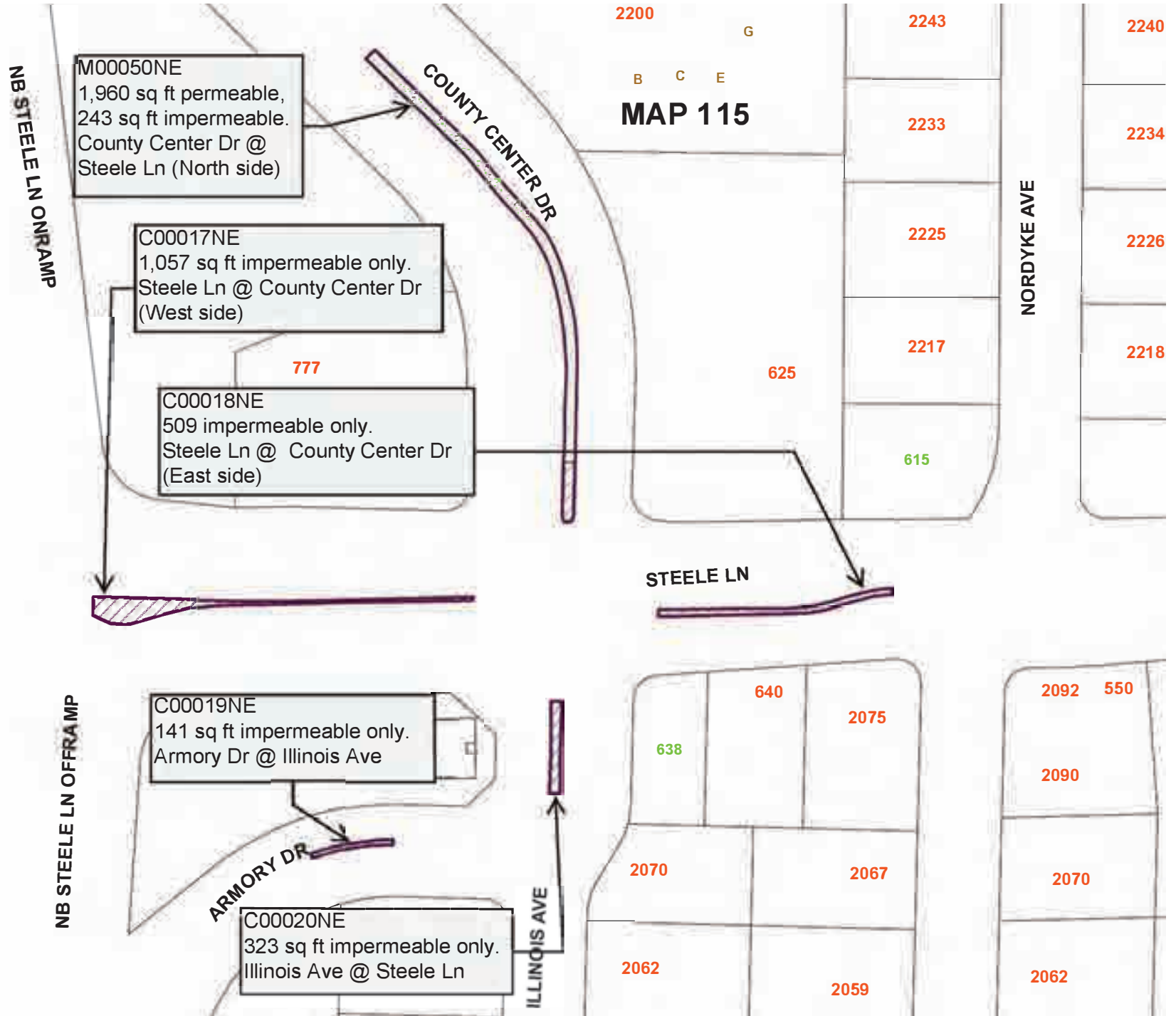
C00014SE
667 sq ft impermeable only.
Mission Blvd @ Highway 12
(Southeast side)

C00015SE
249 sq ft impermeable only.
Mission Blvd @ Highway 12
(turn lane)



HWY 101 S

HWY 101 N

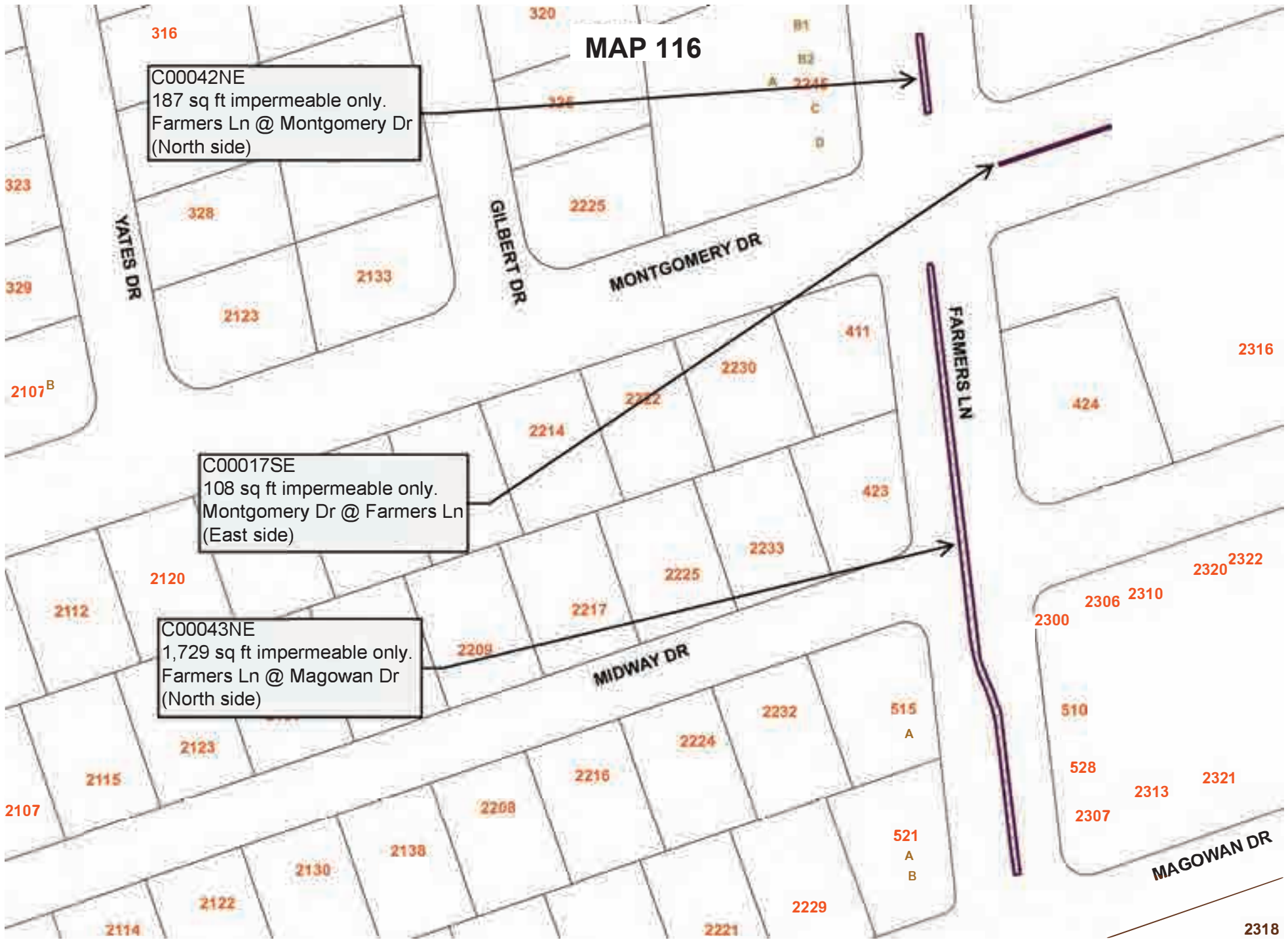


MAP 116

C00042NE
187 sq ft impermeable only.
Farmers Ln @ Montgomery Dr
(North side)

C00017SE
108 sq ft impermeable only.
Montgomery Dr @ Farmers Ln
(East side)

C00043NE
1,729 sq ft impermeable only.
Farmers Ln @ Magowan Dr
(North side)



MAP 117

C00022NE
362 sq ft impermeable only.
Mendocino Ave @ Chanate Rd
(North side)

COUNTY ADMINISTRATION COMPLEX

FISCAL DR

ADMINISTRATION DR

CHANATE RD

MENDOCINO AVE

PAULIN CREEK

2550

C00021NE
545 sq ft impermeable only.
Mendocino Ave @ Chanate Rd
(South side)

329

325

321

2425

2421

200A200

100

2460

2400

2560

2323

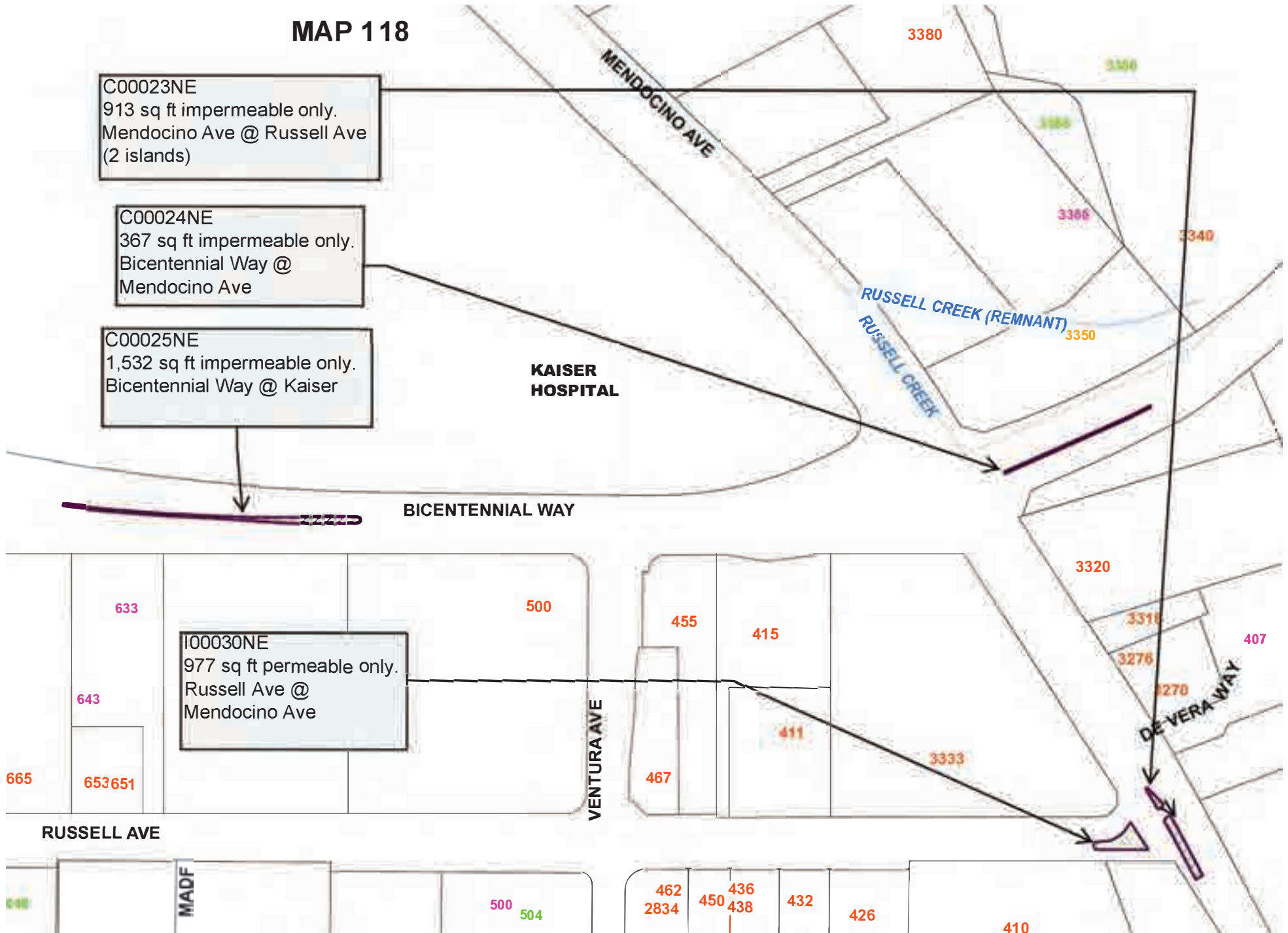
C

B

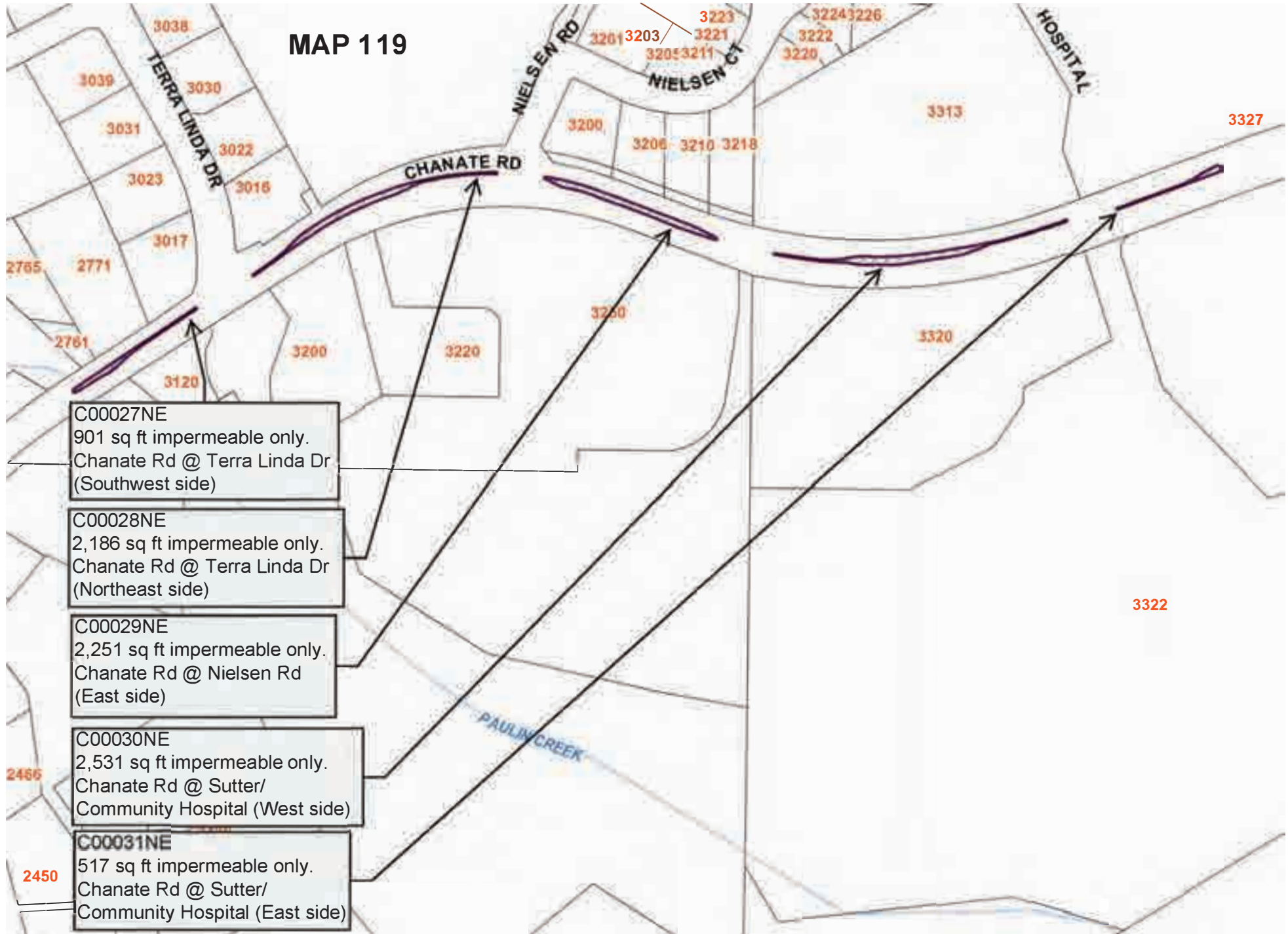
2500

100

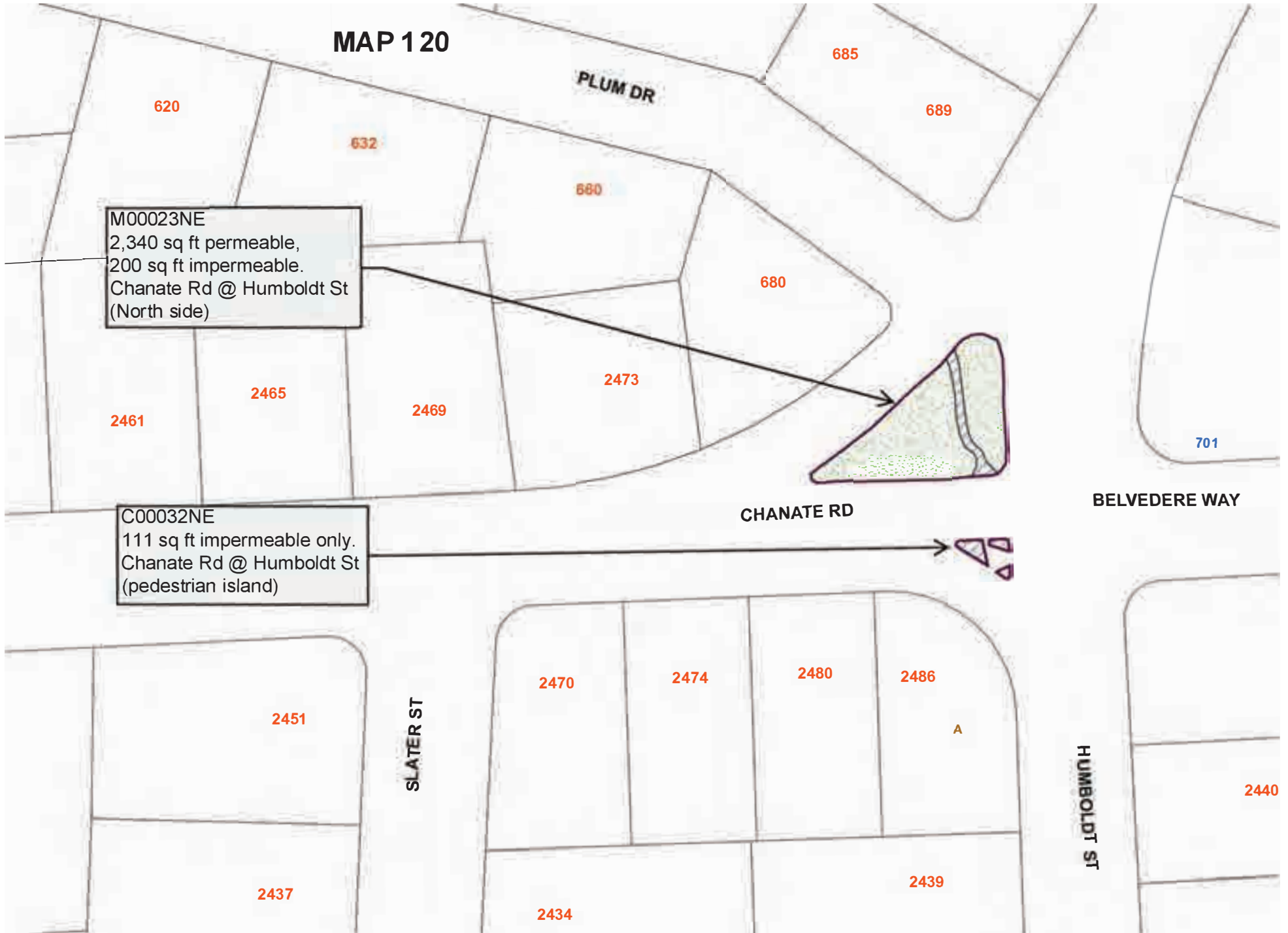
MAP 118



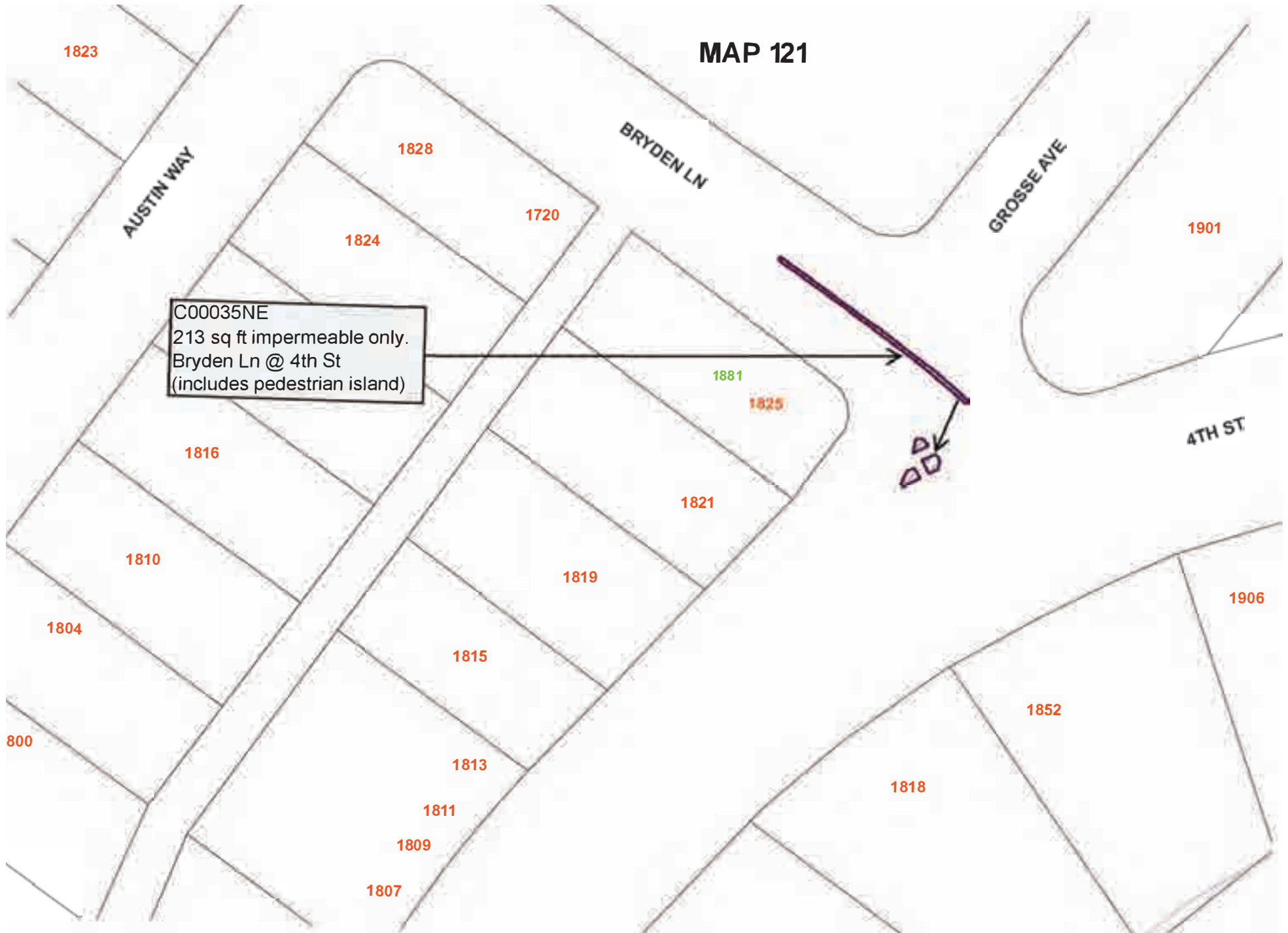
MAP 119



MAP 120



MAP 121



MAP 122

694 sq ft permeable only.
Brookwood Ave @ 4th St
(North side)

541 sq ft permeable,
884 sq ft impermeable.
Brookwood Ave @ 3rd St
(North side)

716 sq ft impermeable only.
Brookwood Ave @ 3rd St
(South side)

379 sq ft impermeable only.
3rd St. @ Brookwood Ave
(East side)

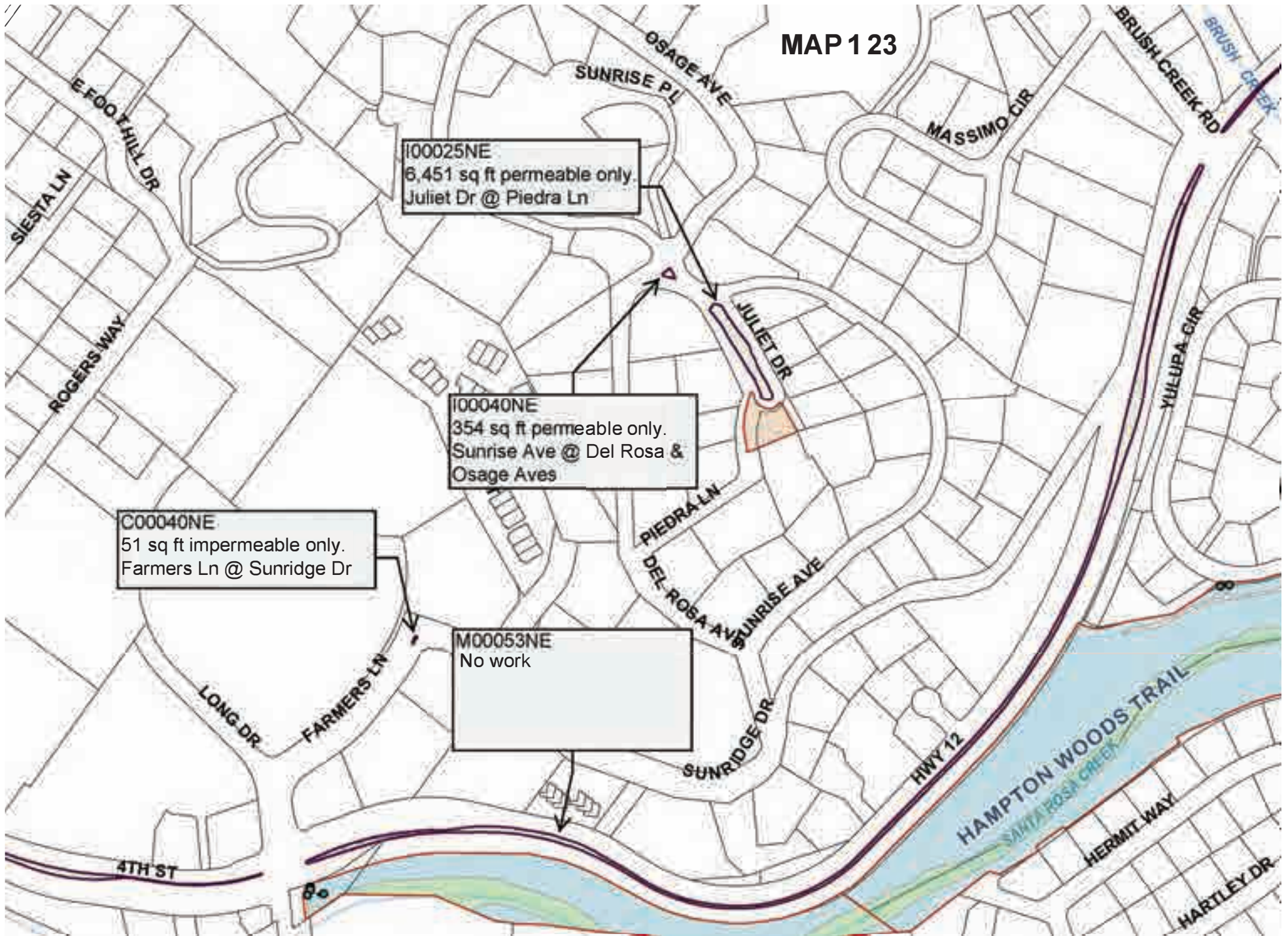
MAP 123

I00025NE
6,451 sq ft permeable only.
Juliet Dr @ Piedra Ln

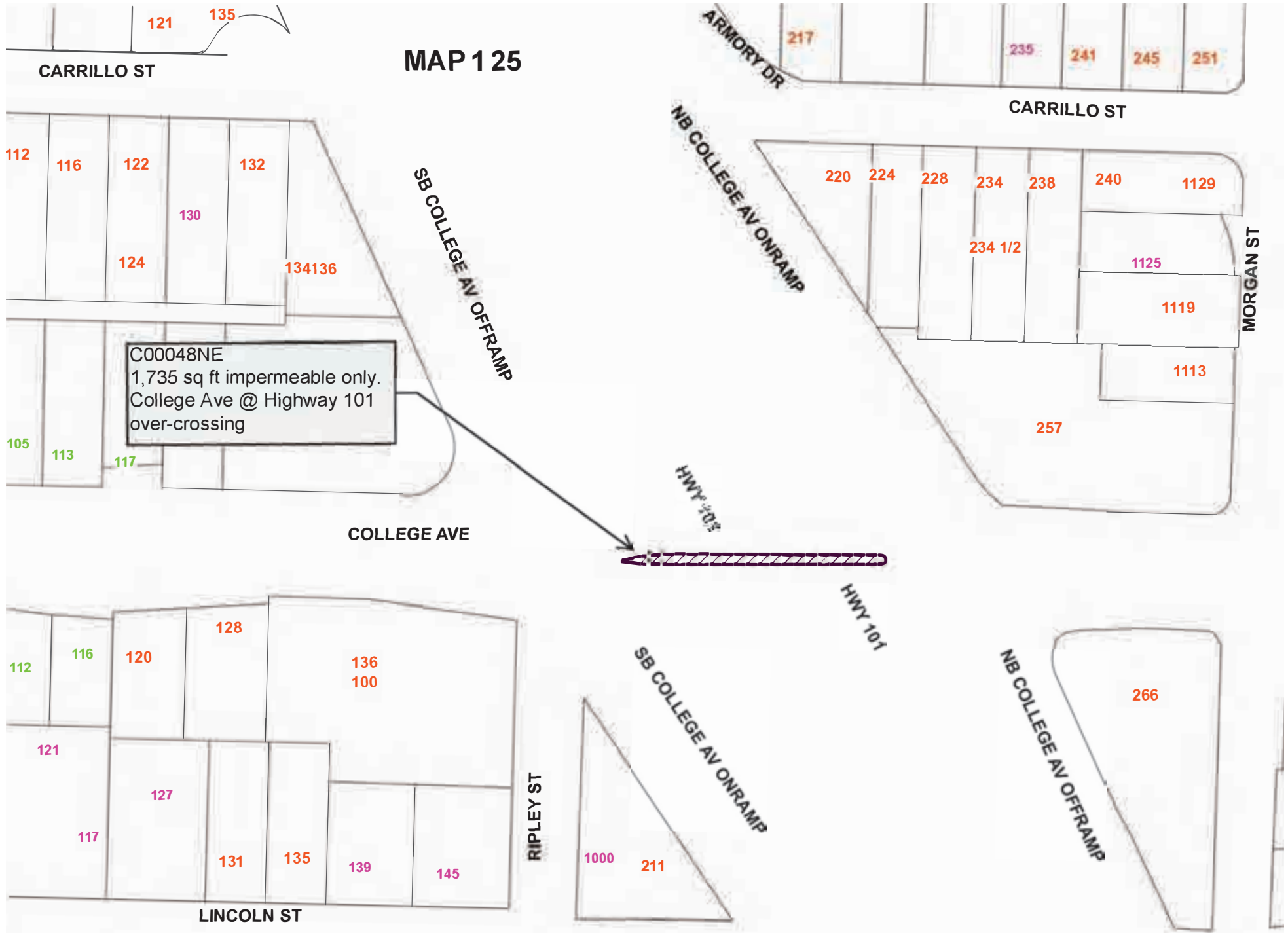
I00040NE
354 sq ft permeable only.
Sunrise Ave @ Del Rosa &
Osage Aves

C00040NE
51 sq ft impermeable only.
Farmers Ln @ Sunridge Dr

M00053NE
No work

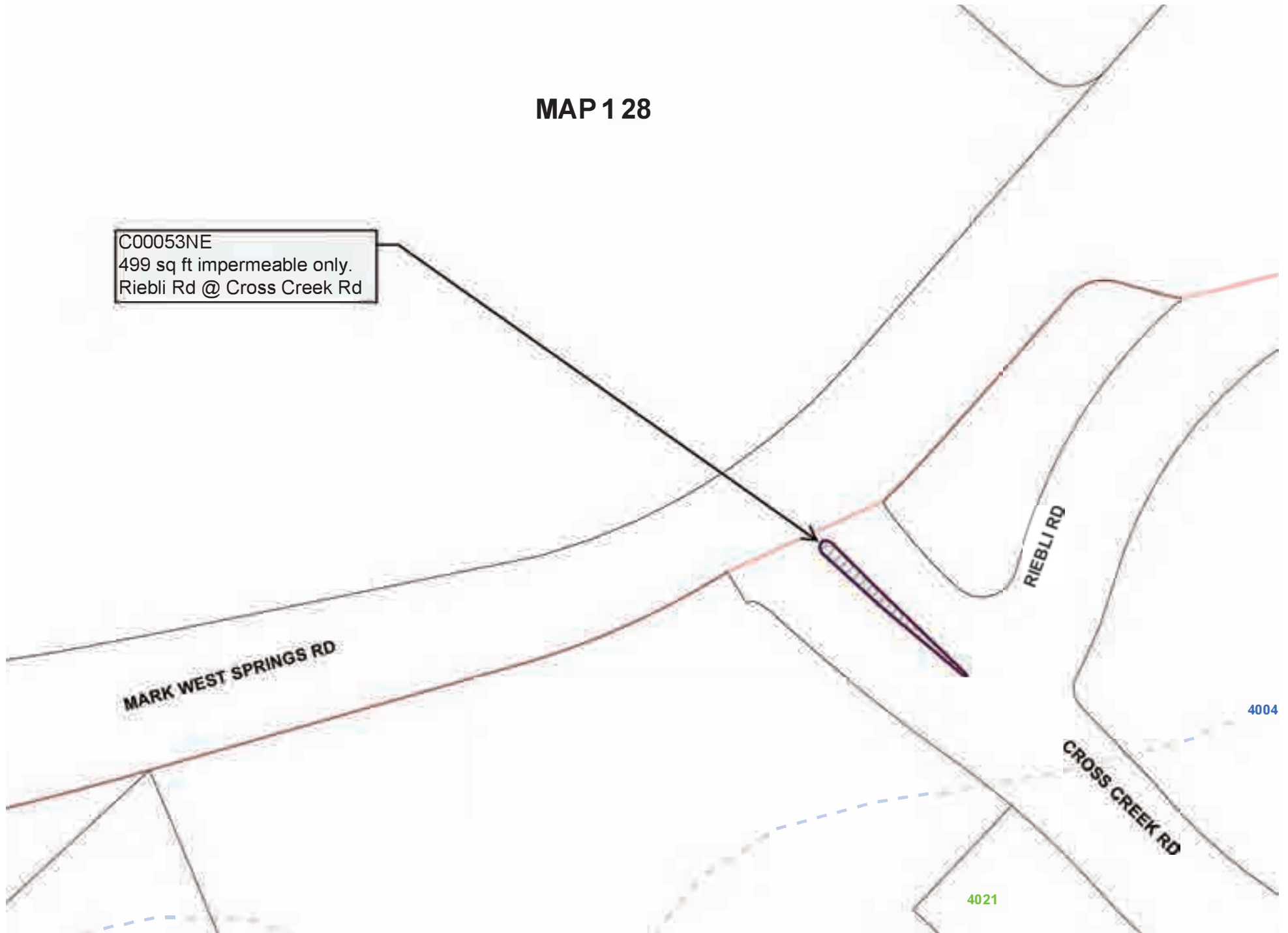


MAP 125

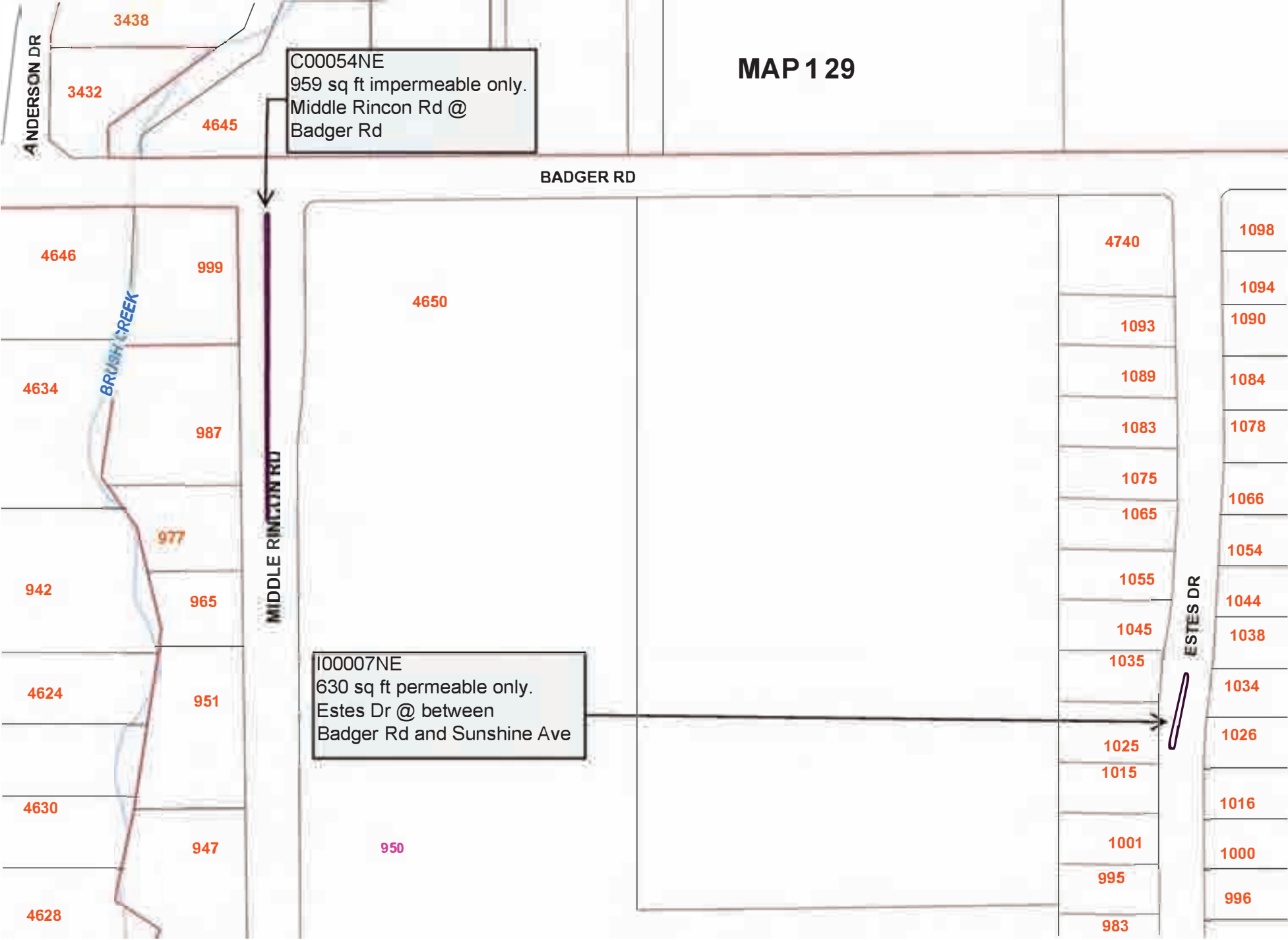


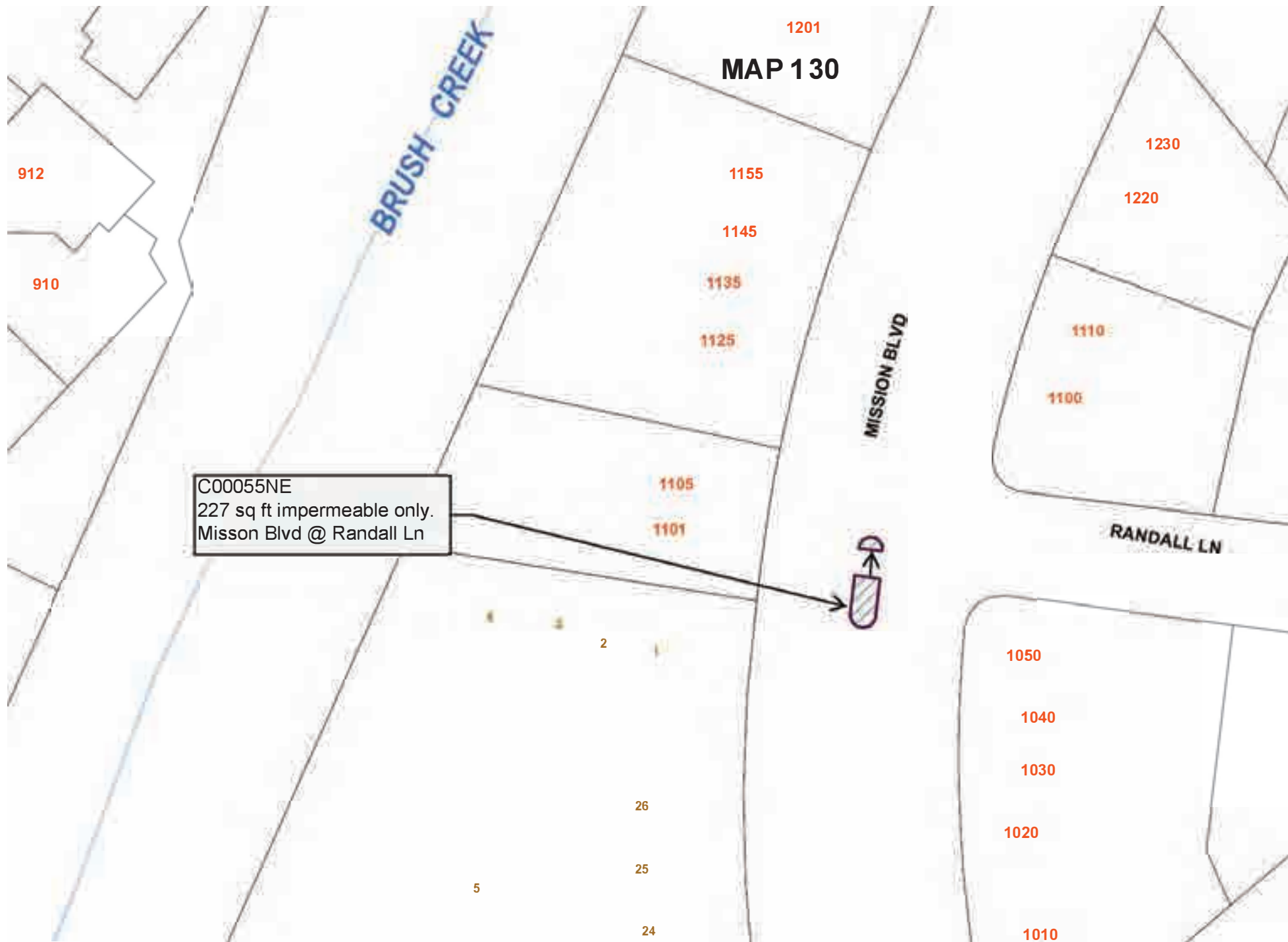
MAP 1 28

C00053NE
499 sq ft impermeable only.
Riebli Rd @ Cross Creek Rd



MAP 129





MAP 131

C00033NE
174 Sqft. Impermeable only
North St. @ Pacific Ave.
(North side)

PACIFIC AVE

C00034NE
176 Sqft. Impermeable only
North St. @ Pacific Ave
(South Side)

NORTH ST

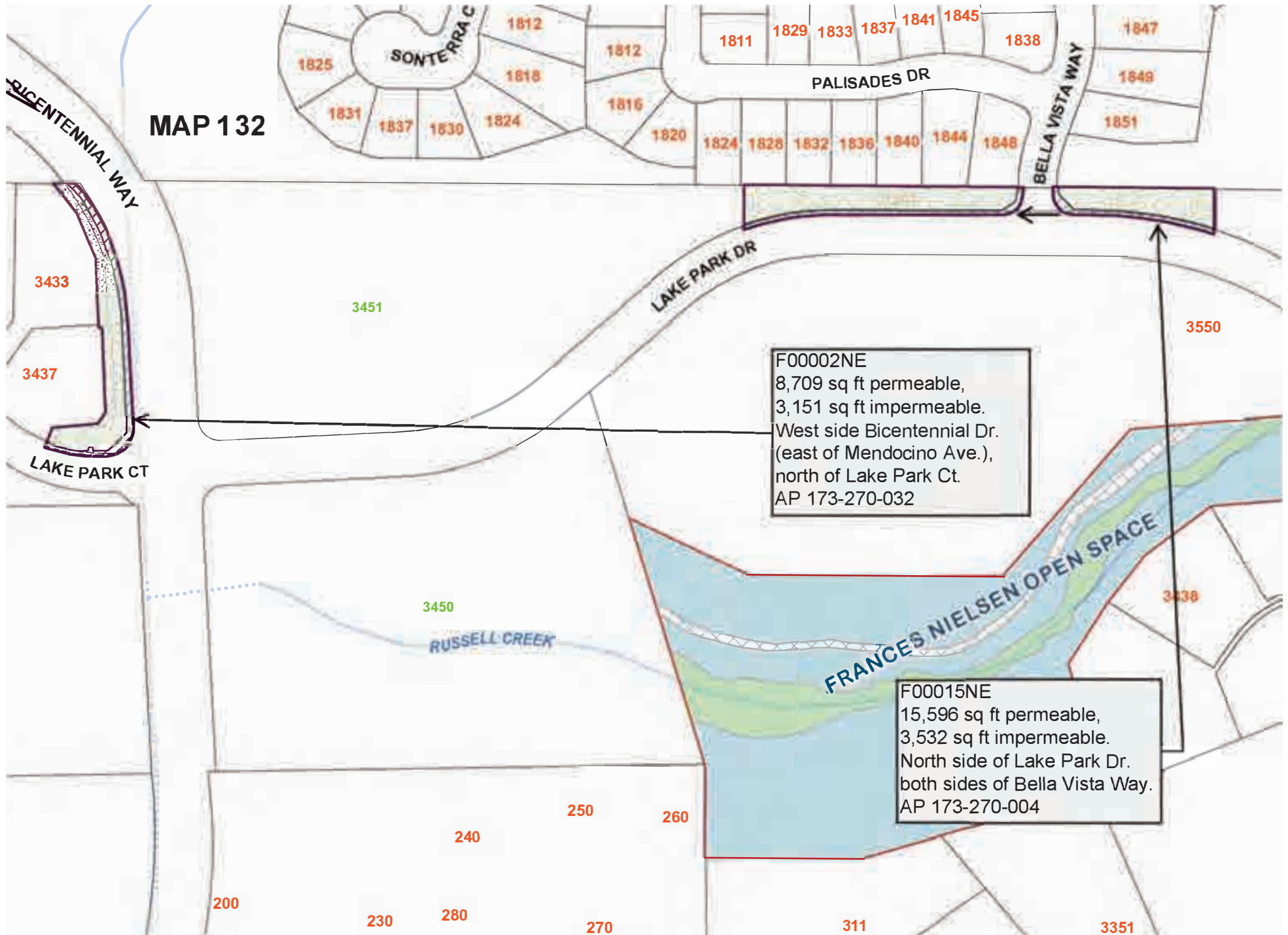
STEWART ST

GADDIS CT

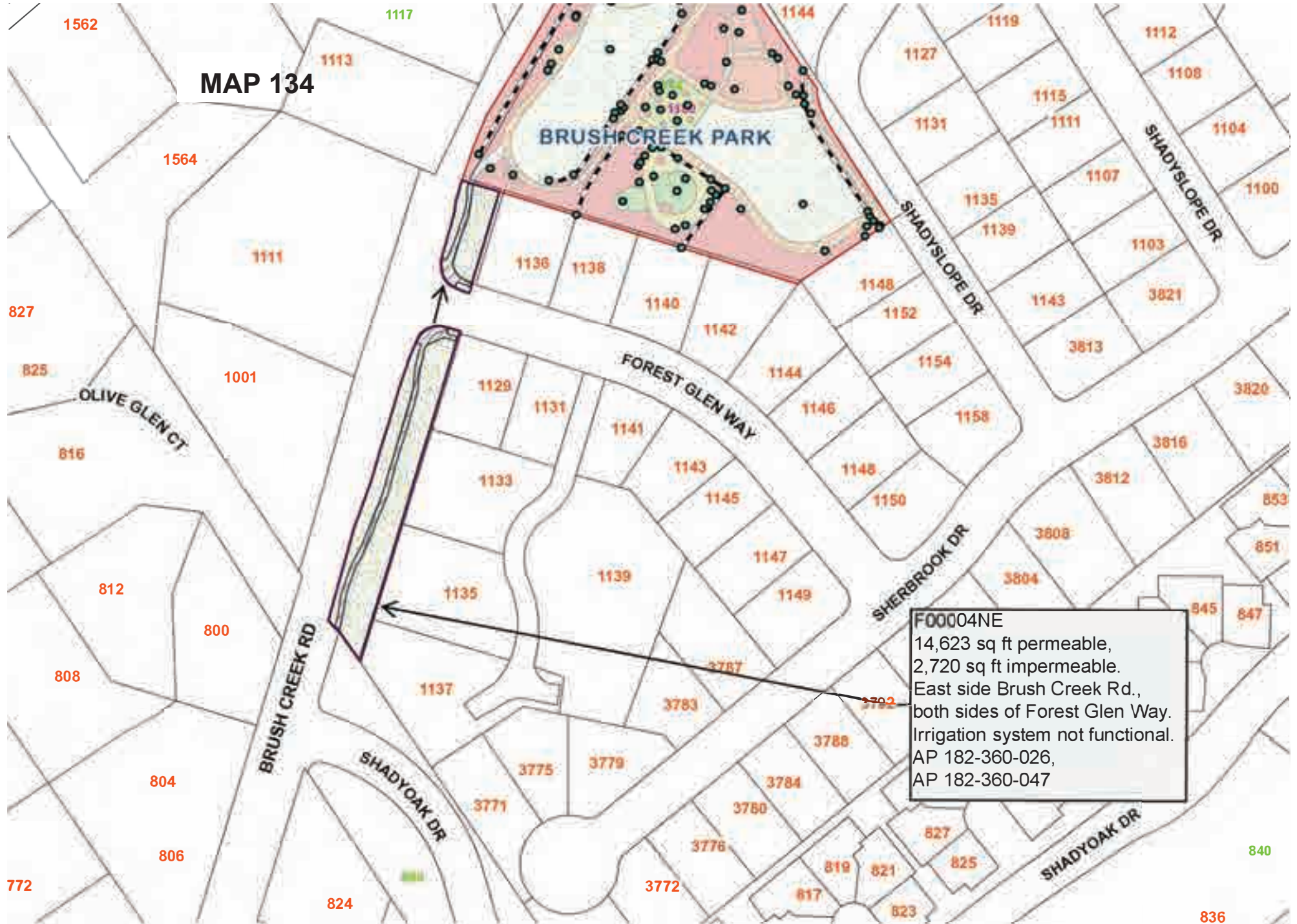
SPENCER AVE

I00043NE
718 Sqft. permeable only
Spencer Ave @ Stewart St.
Traffic Circle

CT



MAP 134



F00004NE
14,623 sq ft permeable,
2,720 sq ft impermeable.
East side Brush Creek Rd.,
both sides of Forest Glen Way.
Irrigation system not functional.
AP 182-360-026,
AP 182-360-047

MAP 135

M00025NE

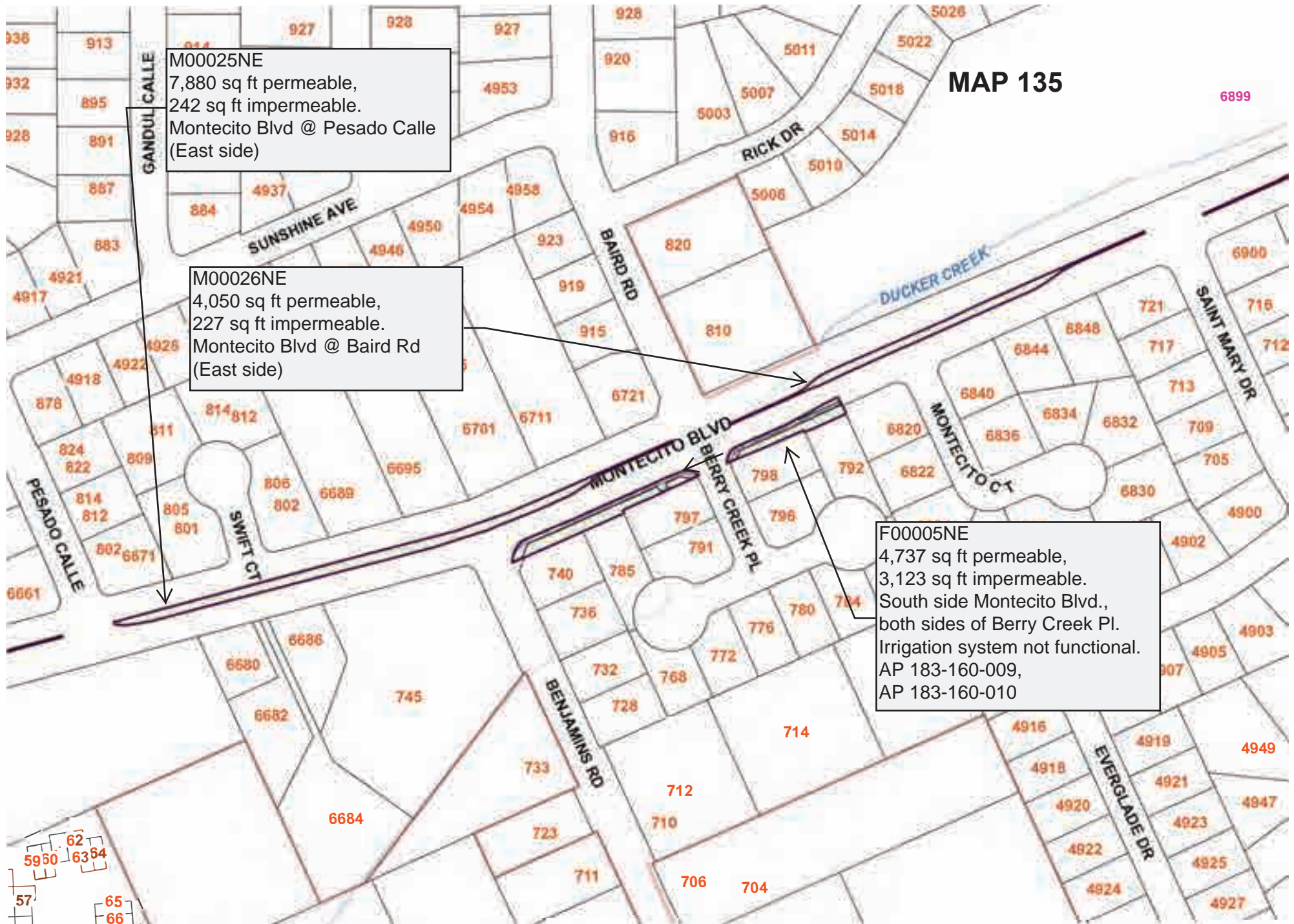
7,880 sq ft permeable,
242 sq ft impermeable.
Montecito Blvd @ Pesado Calle
(East side)

M00026NE

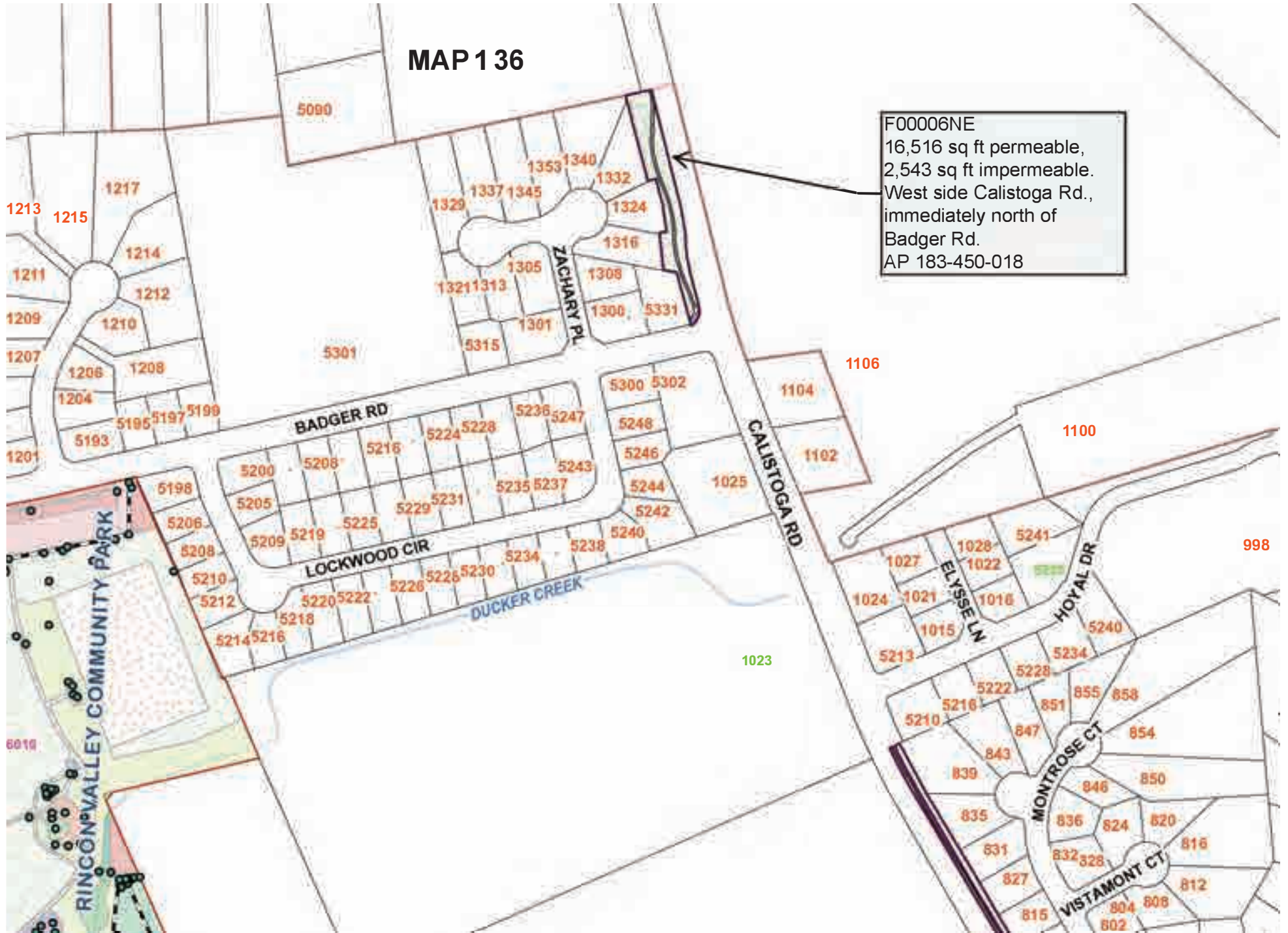
4,050 sq ft permeable,
227 sq ft impermeable.
Montecito Blvd @ Baird Rd
(East side)

F00005NE

4,737 sq ft permeable,
3,123 sq ft impermeable.
South side Montecito Blvd.,
both sides of Berry Creek Pl.
Irrigation system not functional.
AP 183-160-009,
AP 183-160-010



MAP 136



MAP 137

M00030NE
3191 sq ft permeable
345 sq ft impermeable
Montecito Blvd @
Calistoga Rd.

M00028NE
1625 sq ft permeable
25 sq ft impermeable
Montecito Blvd @
Rincon Valley Library

MARIA CARRILLO HS

MONTECITO BLVD

PARKVIEW DR

SHADYBROOK CT

SANDSTONE CT

SPRINGHILL CT

SHADYLEAF CT

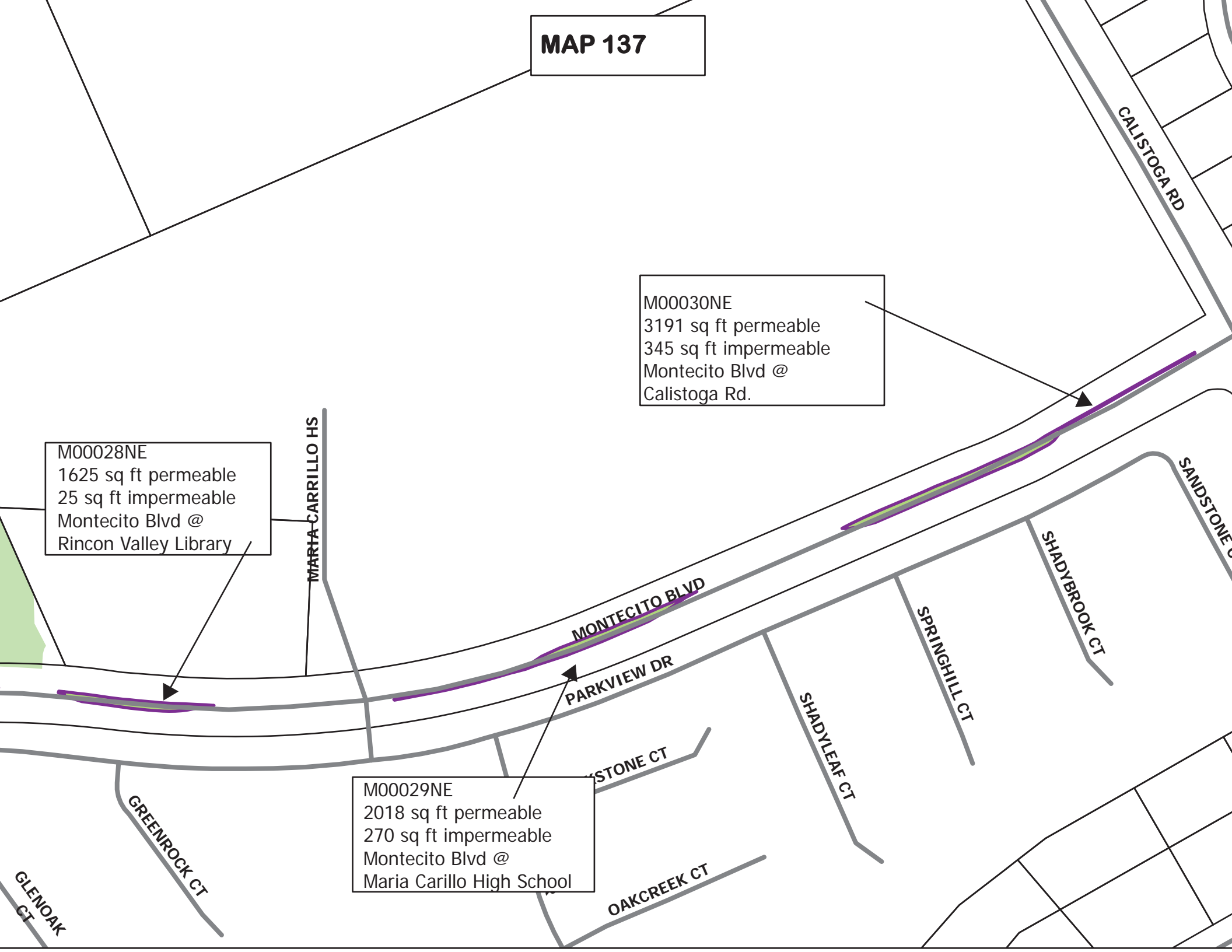
M00029NE
2018 sq ft permeable
270 sq ft impermeable
Montecito Blvd @
Maria Carillo High School

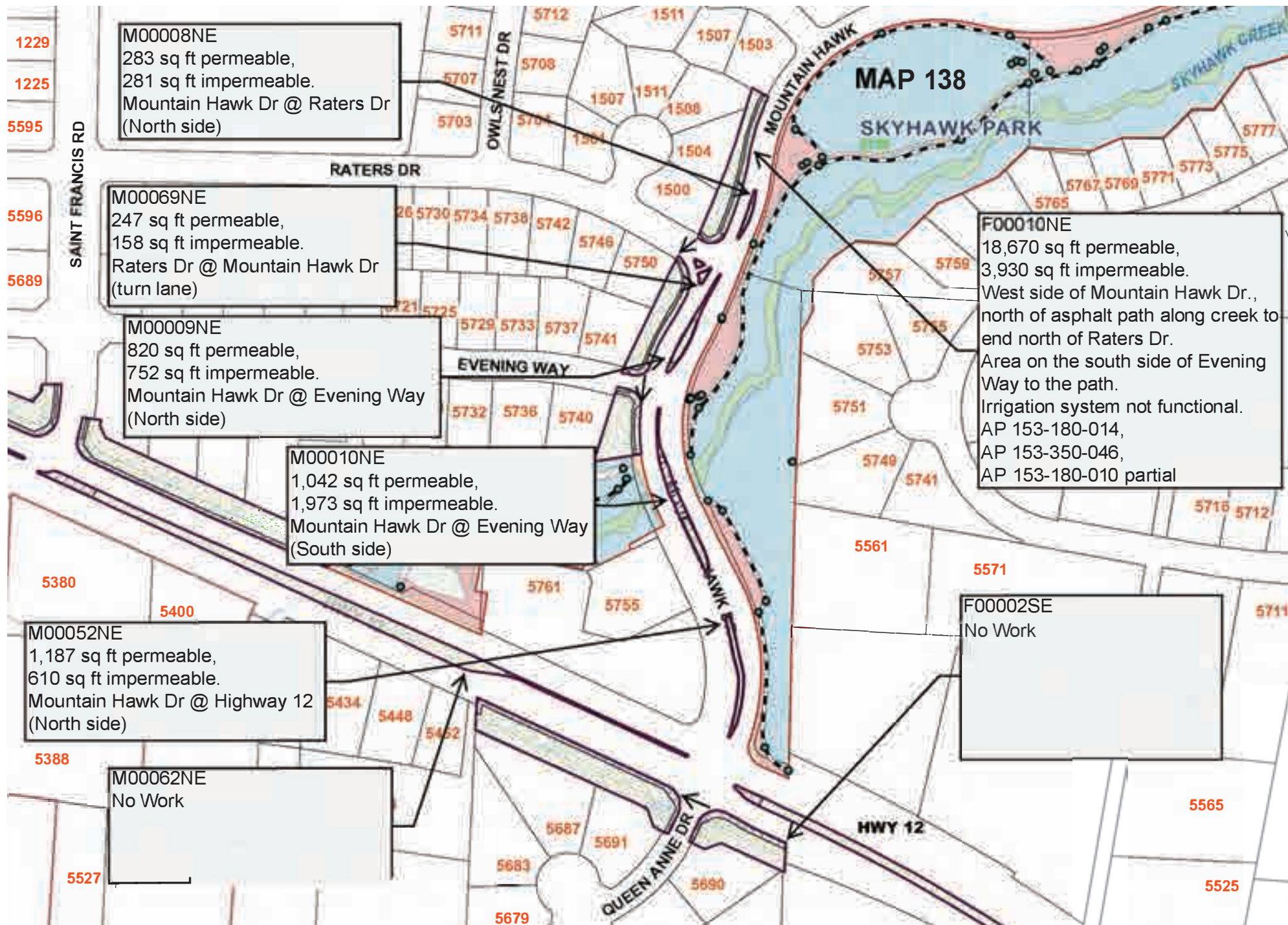
SANDSTONE CT

OAKCREEK CT

GREENROCK CT

GLENOAK CT





MAP 142

MONROE ST

I00024NE
4,724 Sqft. Permeable only
College Ave @ 4th St.
(middle)

C00036NE
1,190 Sqft. Impermeable only
McDonald Ave and College
Ave @ 4th St. (Divider)

MCDONALD AVE

COLLEGE AVE

ALLISON WAY

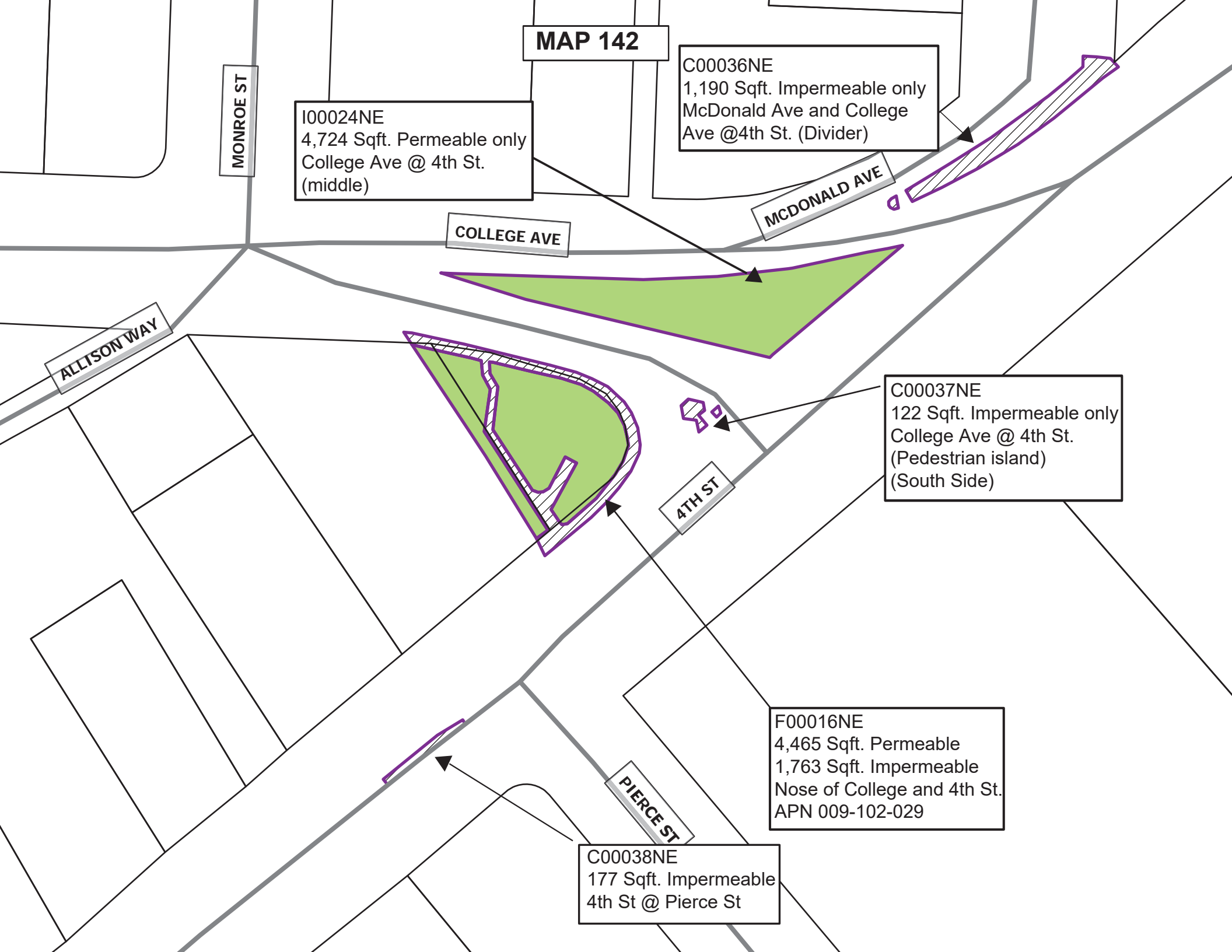
4TH ST

C00037NE
122 Sqft. Impermeable only
College Ave @ 4th St.
(Pedestrian island)
(South Side)

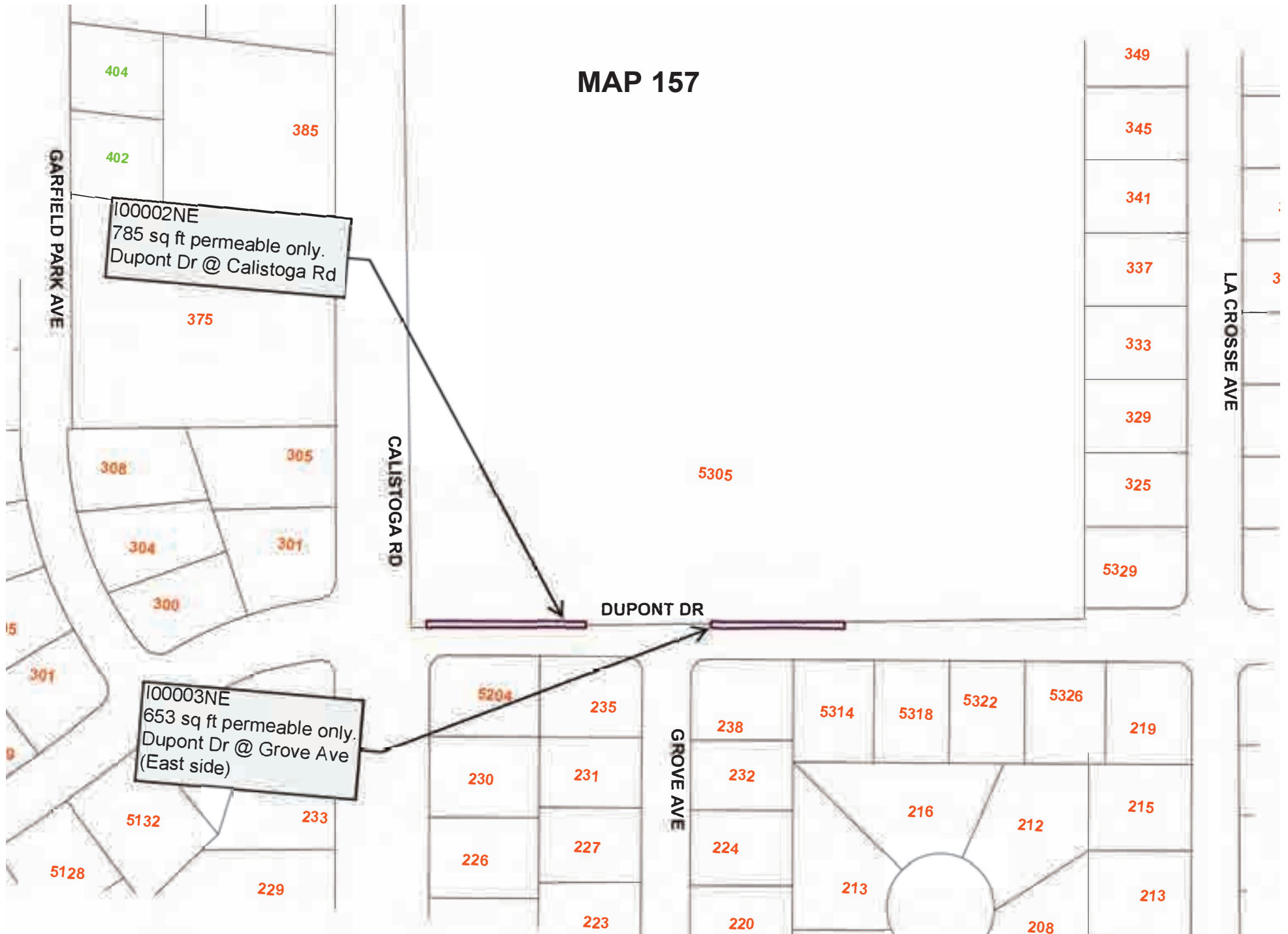
F00016NE
4,465 Sqft. Permeable
1,763 Sqft. Impermeable
Nose of College and 4th St.
APN 009-102-029

PIERCE ST

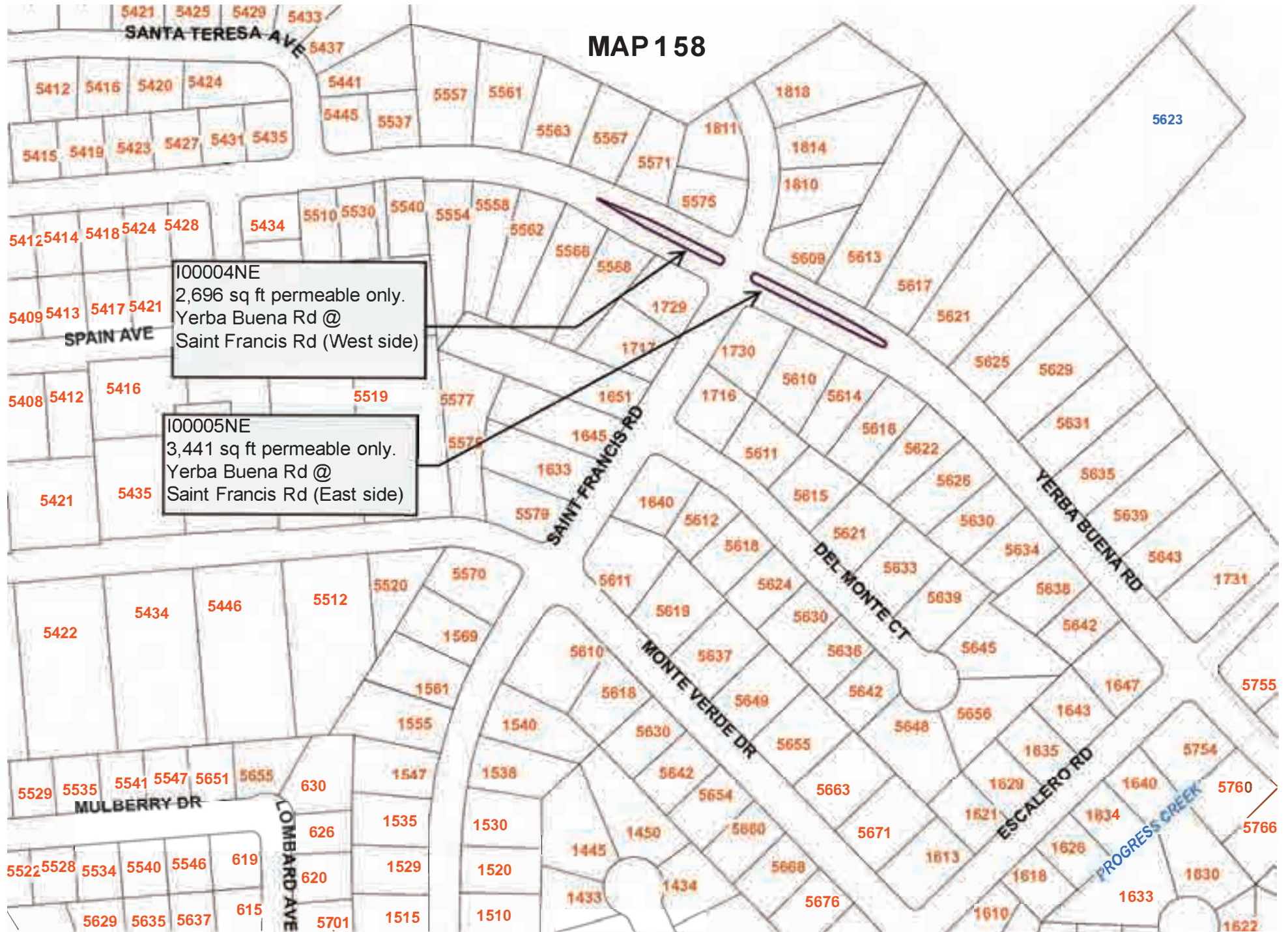
C00038NE
177 Sqft. Impermeable
4th St @ Pierce St



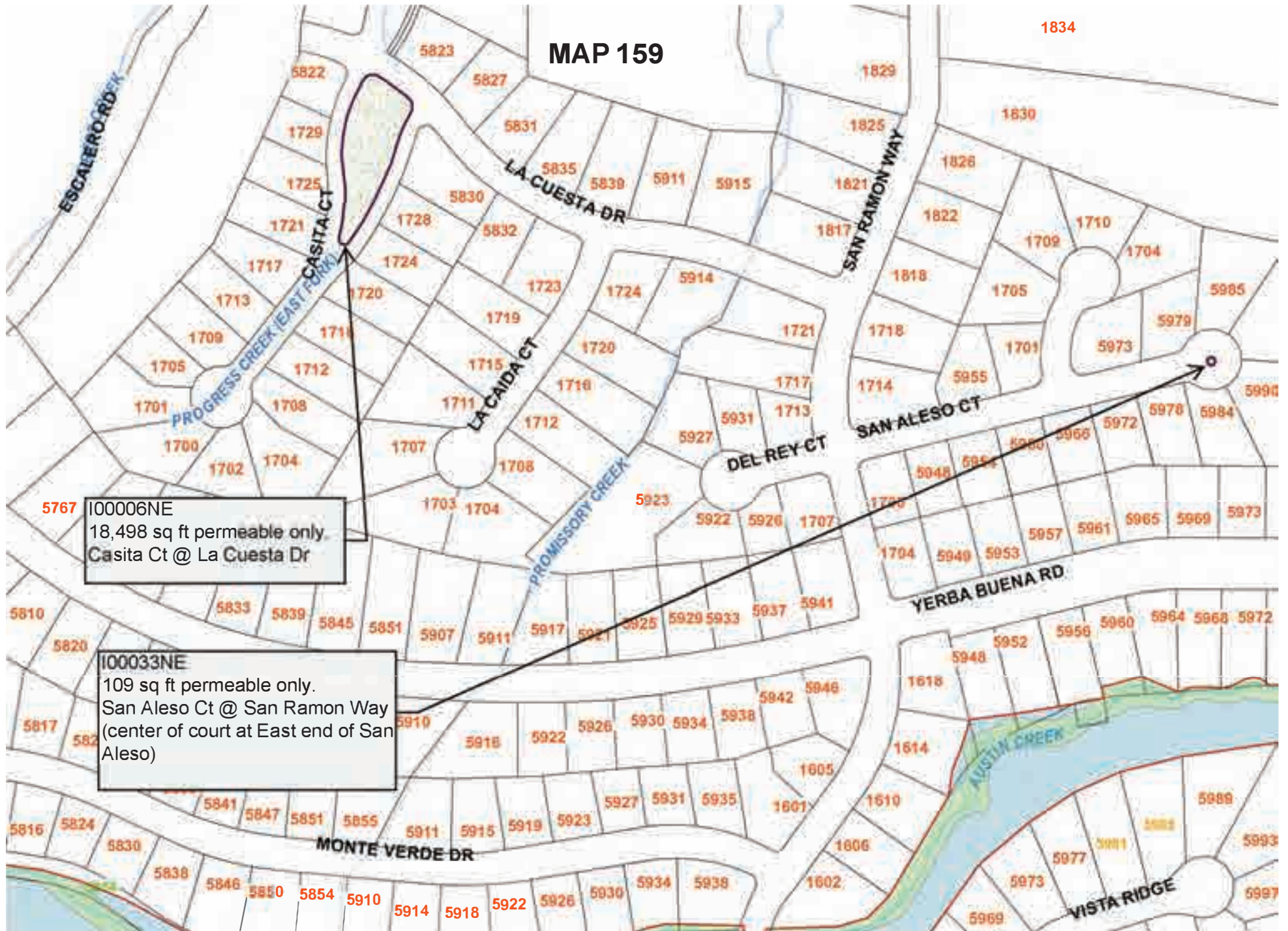
MAP 157



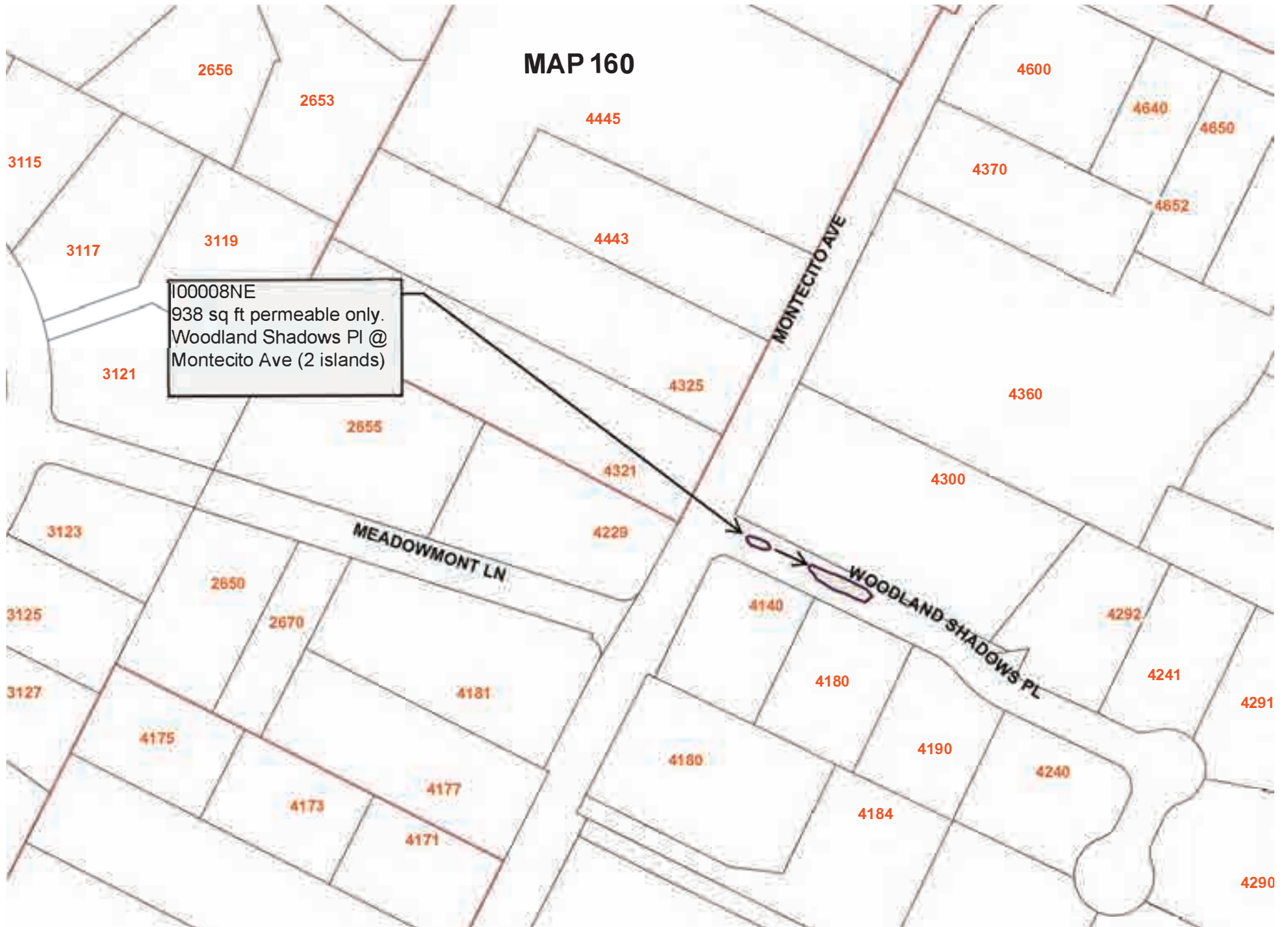
MAP 158



1834



MAP 160



MAP 161

2404	619	623	645
------	-----	-----	-----

MERVYN AVE

608	616	620	2355
-----	-----	-----	------

I00009NE
1,833 sq ft permeable only.
Humboldt St @ Mervyn Ave

SLATER ST

HUMBOLDT ST

LA VERNE AVE

548 602

I00028NE
341 sq ft permeable only.
Lewis Rd @ Franklin Ave

2205

FRANKLIN AVE

LEWIS RD

MURDOCK DR

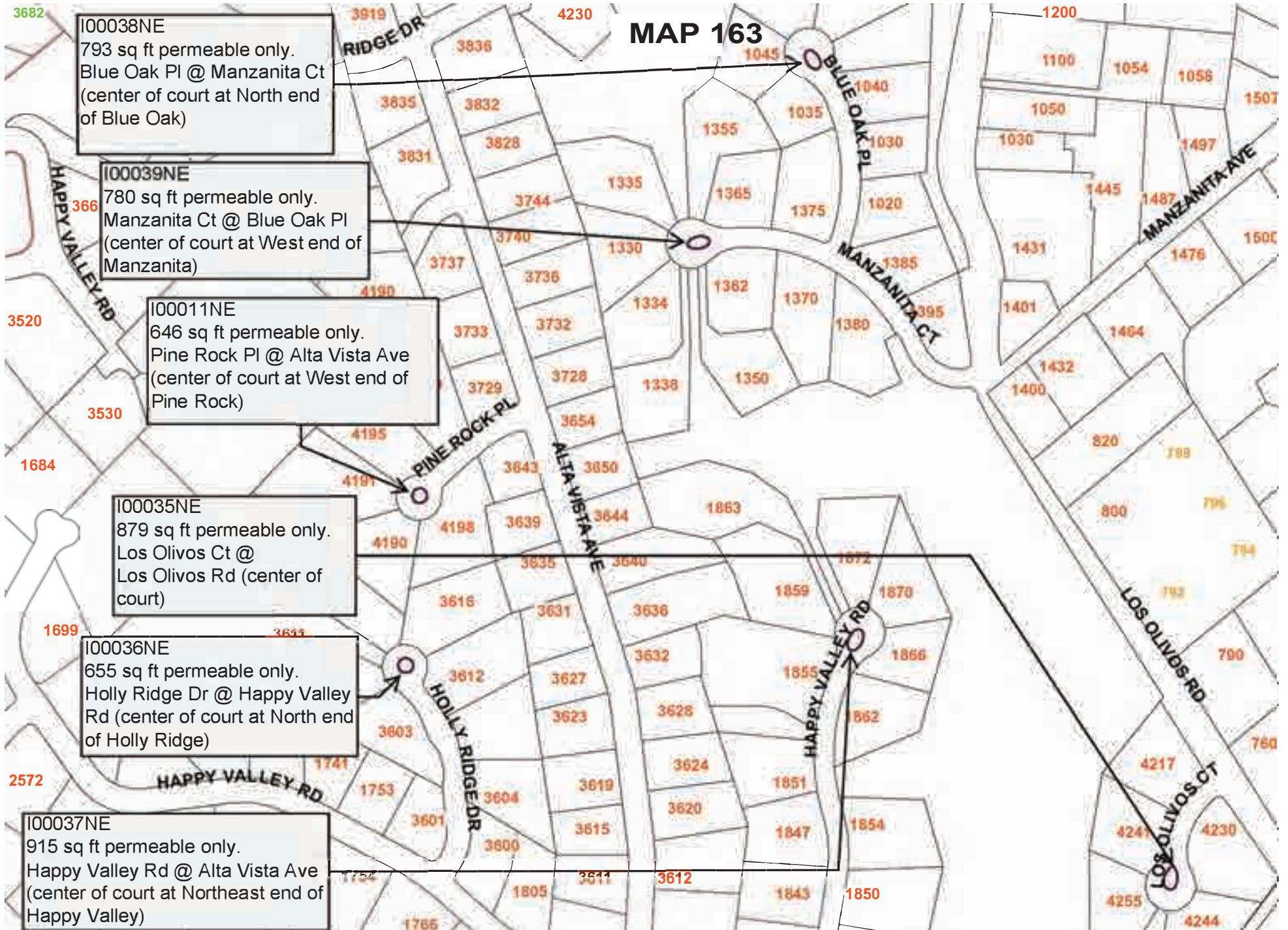
HILLTOP CT

CREST DR

30 KNOB HILL DR

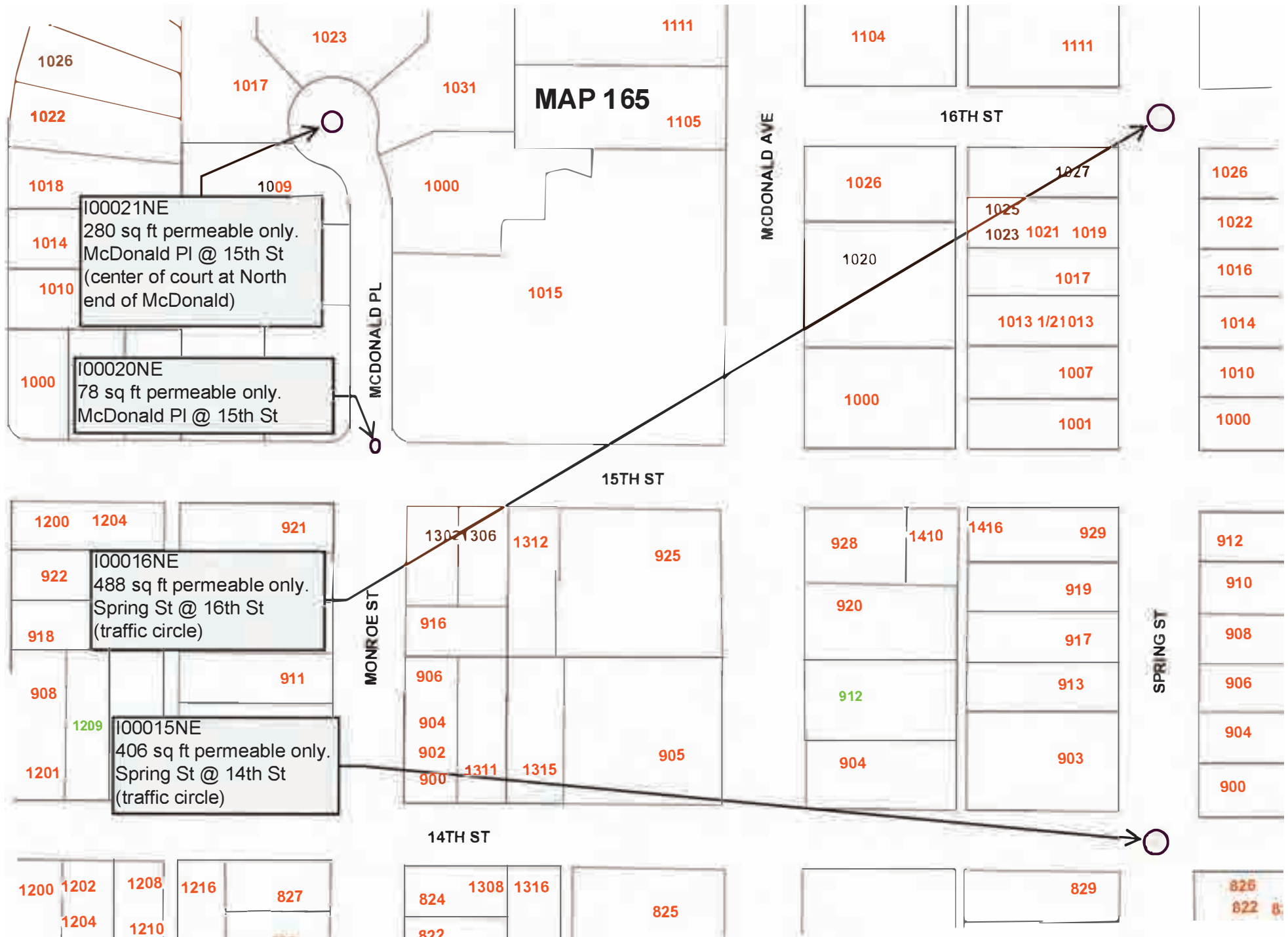
1,041 sq ft permeable only.
Knob Hill Dr @ Montecito
Meadow Dr (center of court at
East end of Knob Hill)

MAP 163



MAP 164

100012NE
13,169 sq ft permeable only.
Benjamins Rd @ Middle Rincon Rd
(divider)



MAP 165

100021NE
280 sq ft permeable only.
McDonald PI @ 15th St
(center of court at North
end of McDonald)

100020NE
78 sq ft permeable only.
McDonald PI @ 15th St

100016NE
488 sq ft permeable only.
Spring St @ 16th St
(traffic circle)

100015NE
406 sq ft permeable only.
Spring St @ 14th St
(traffic circle)

MCDONALD AVE

16TH ST

15TH ST

14TH ST

MONROE ST

SPRING ST

MAP 166

100017NE
590 sq ft permeable only.
Sucher Ln @ Illinois Ave
(traffic diverter)

ARMORY DR

ILLINOIS AVE

NORDYKE AVE

OLIVER LN

VICTOR DR

CLEVELAND AVE

SB STEELE LN ONRAMP

HWY 101 S

HWY 101 N

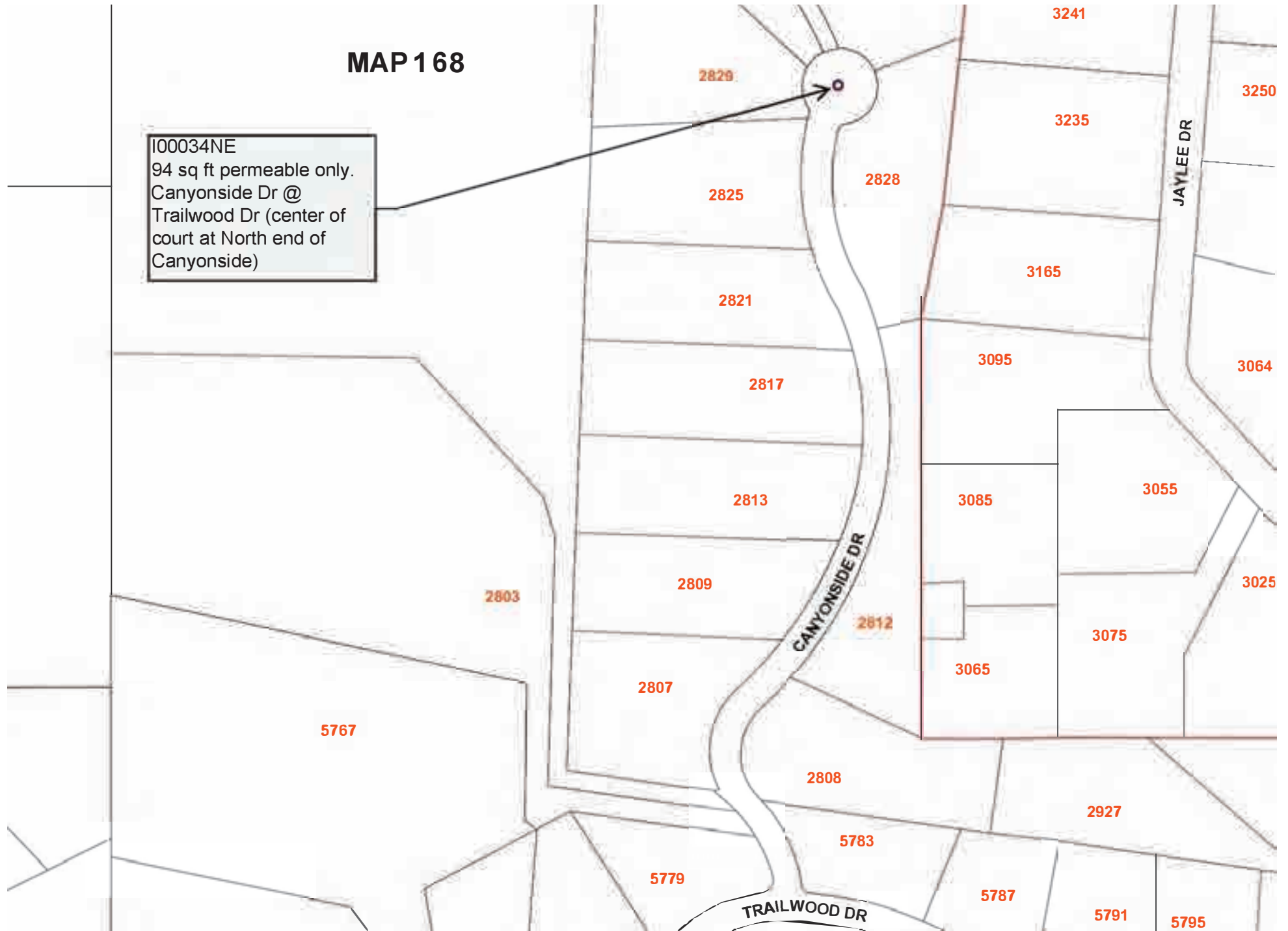
NB STEELE LN OFFRAMP

SUCHER LN

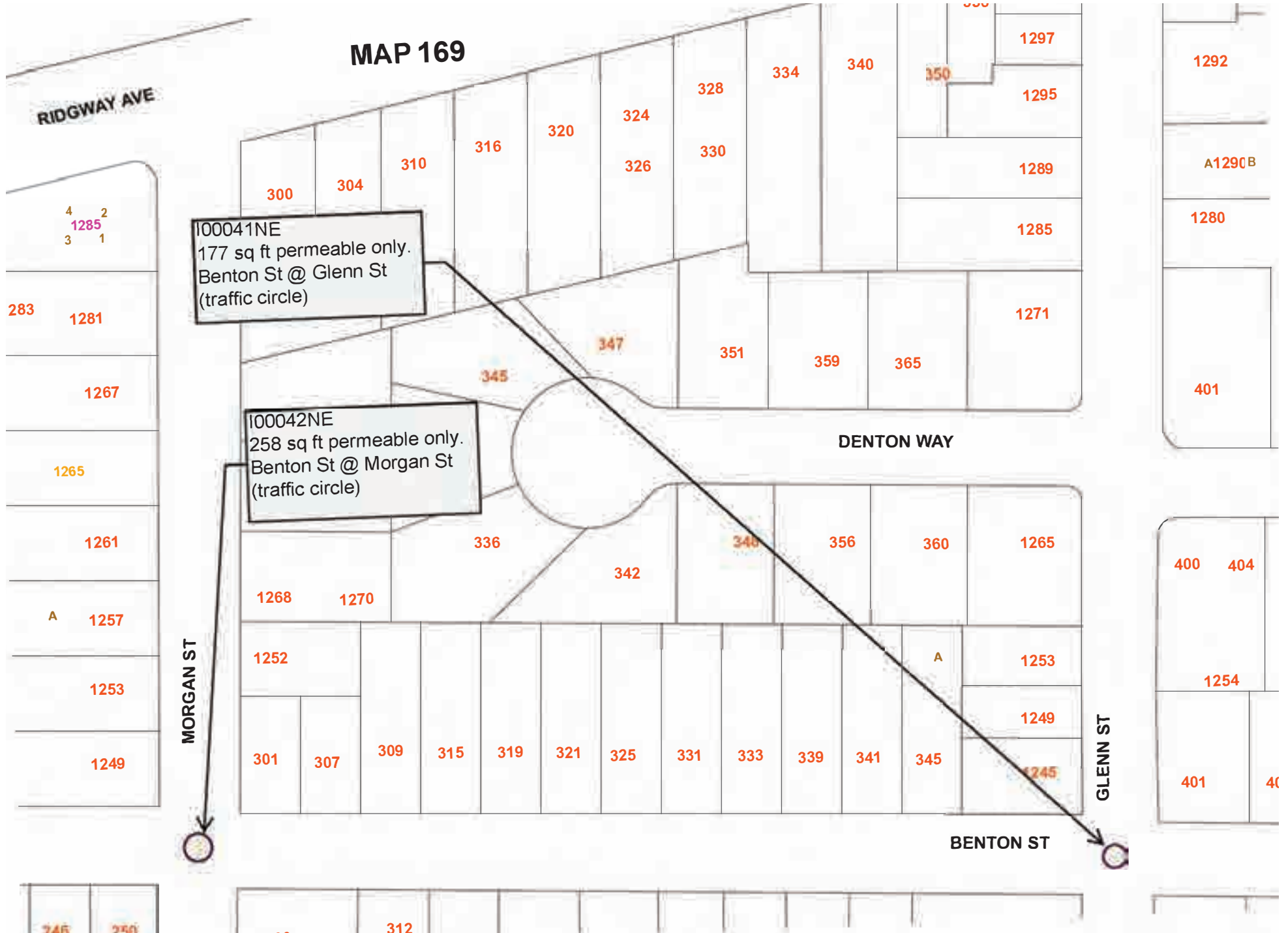


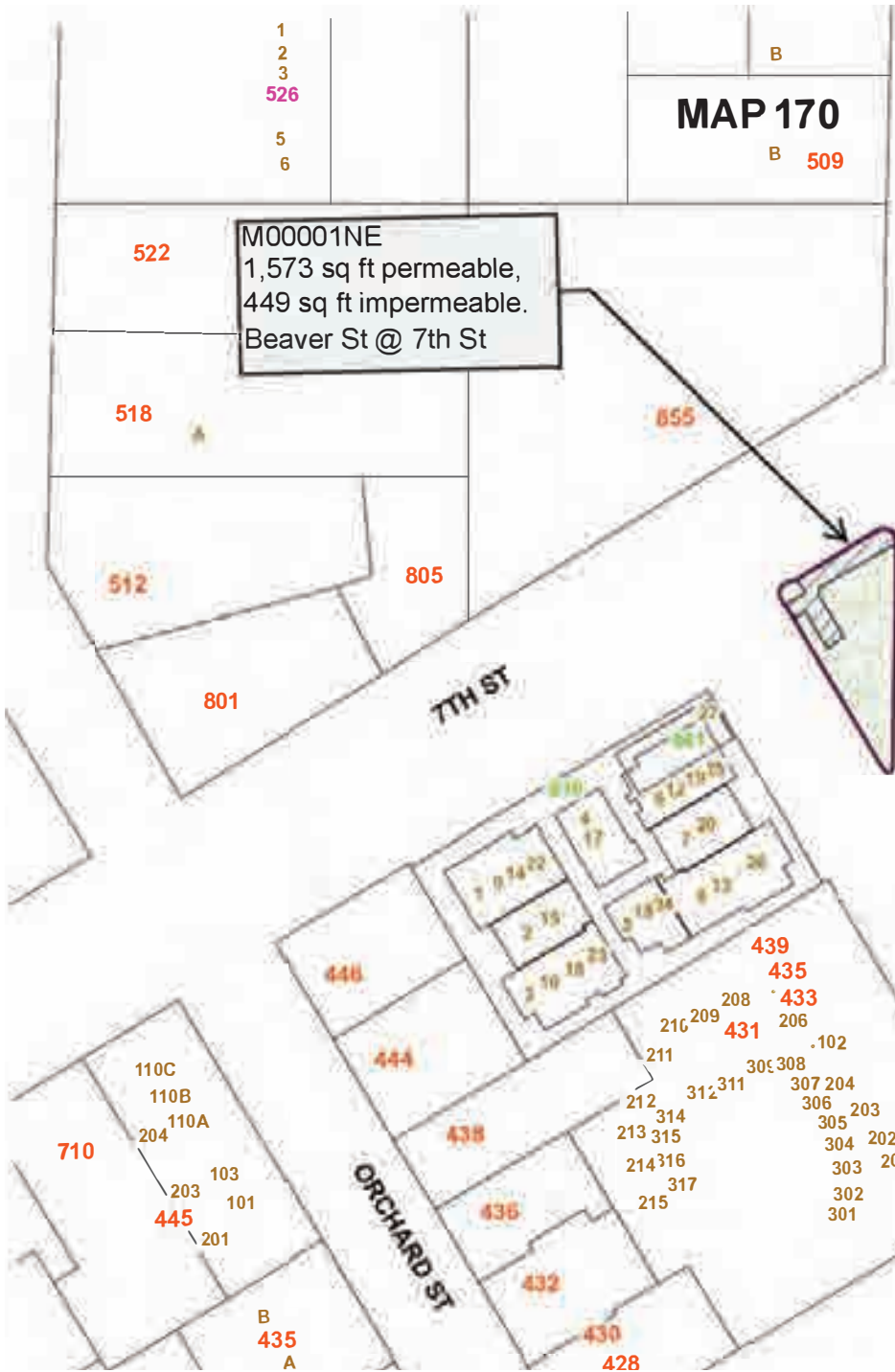
MAP 168

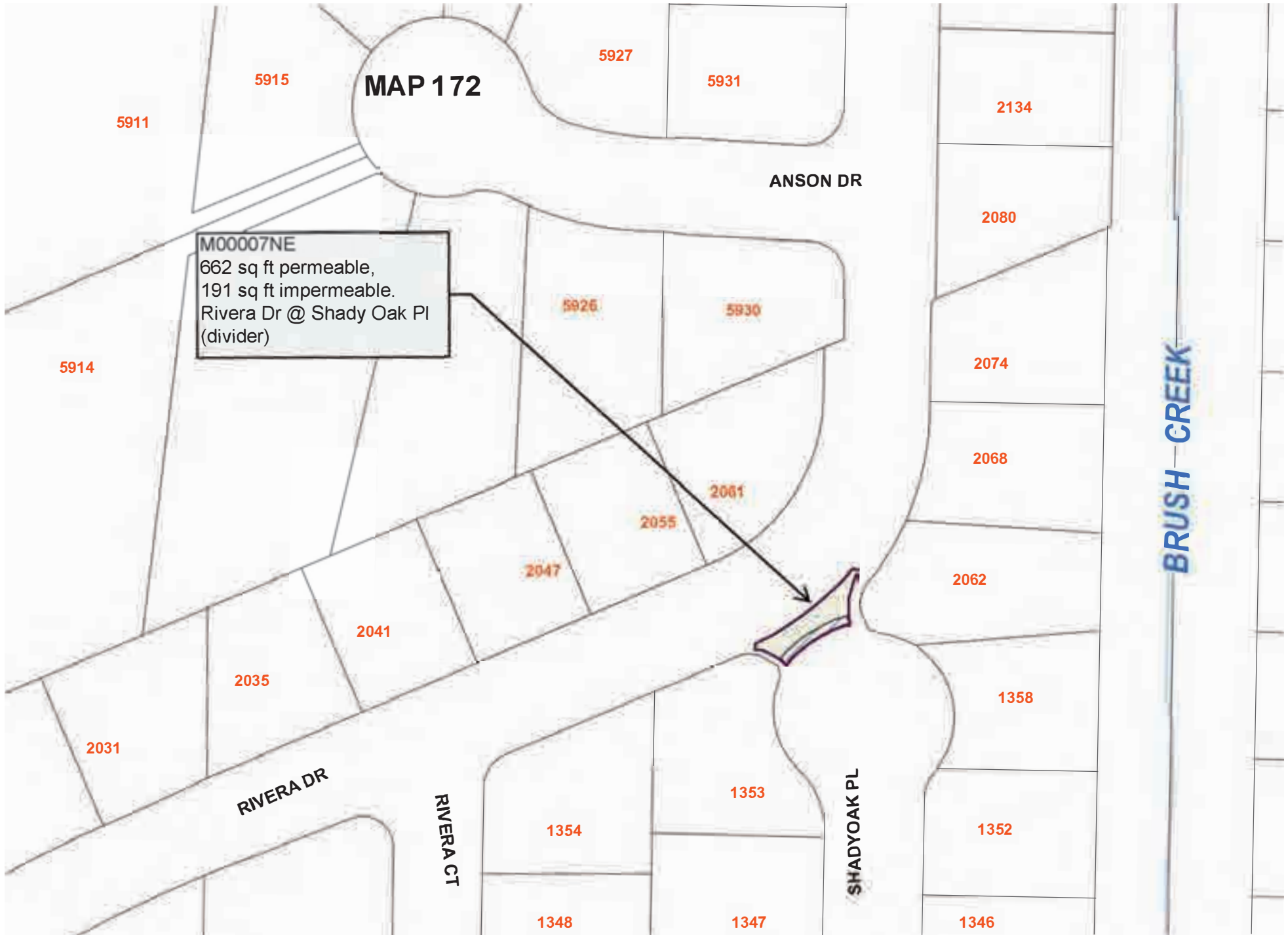
I00034NE
94 sq ft permeable only.
Canyonside Dr @
Trailwood Dr (center of
court at North end of
Canyonside)

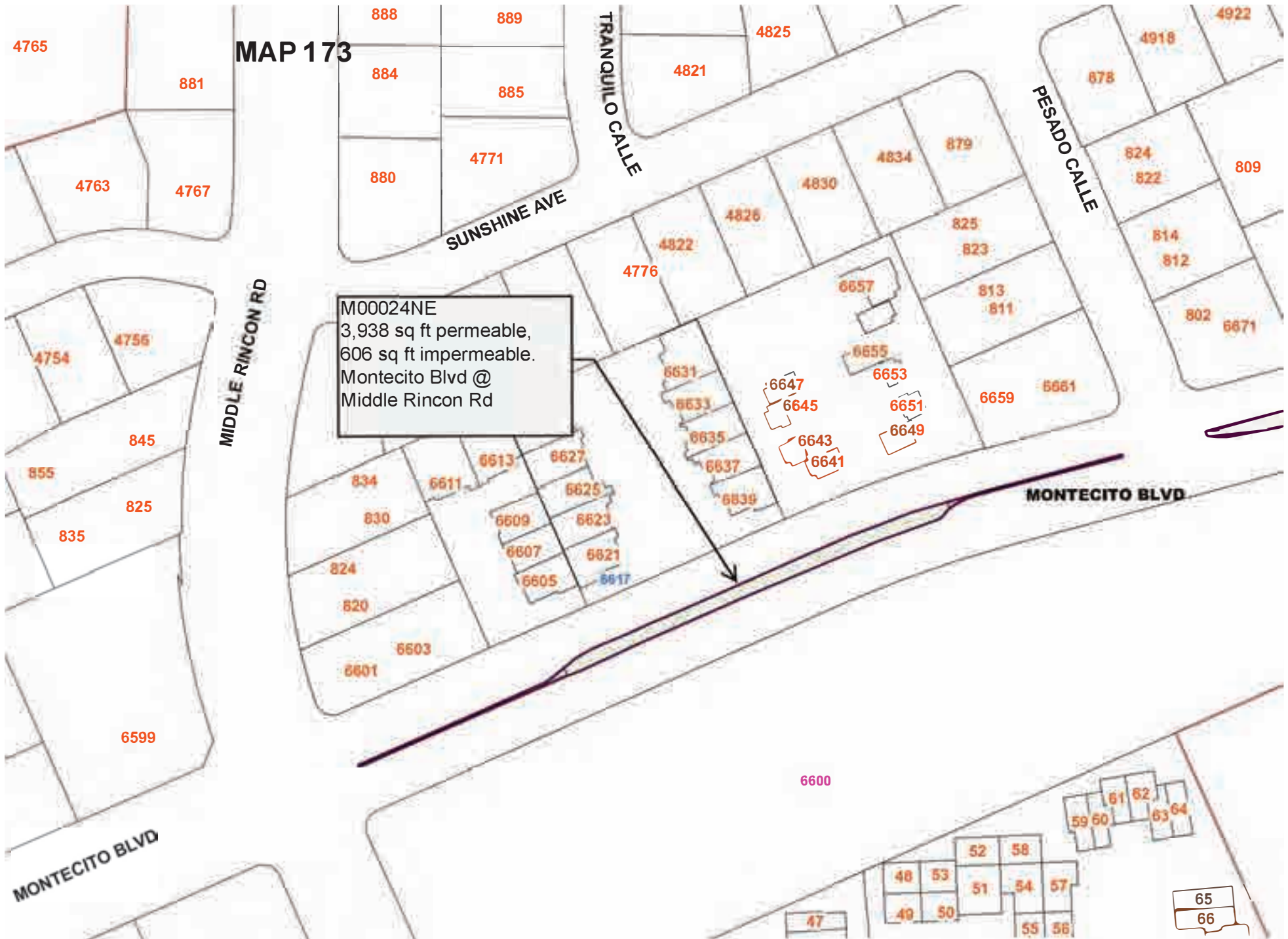


MAP 169





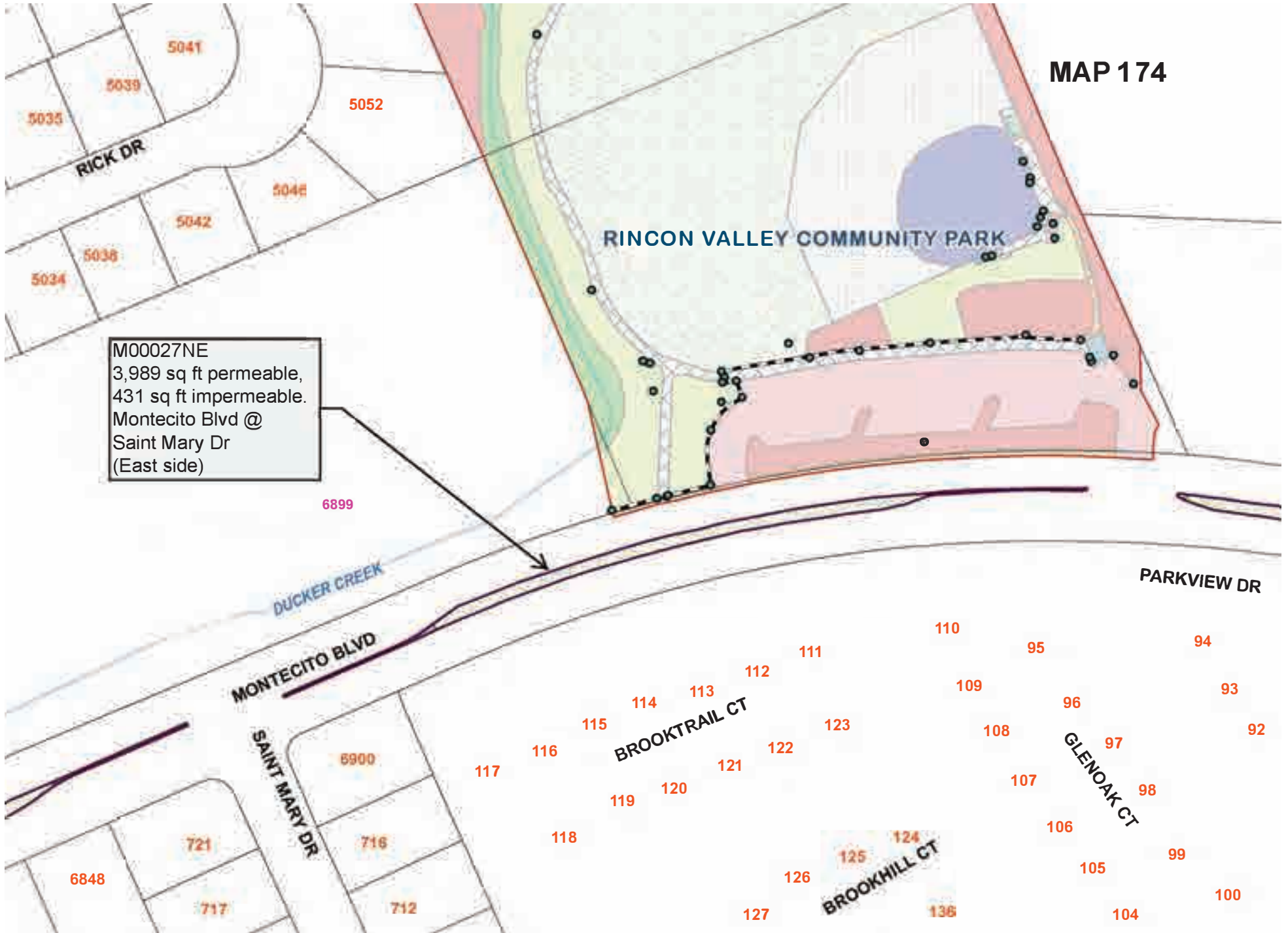


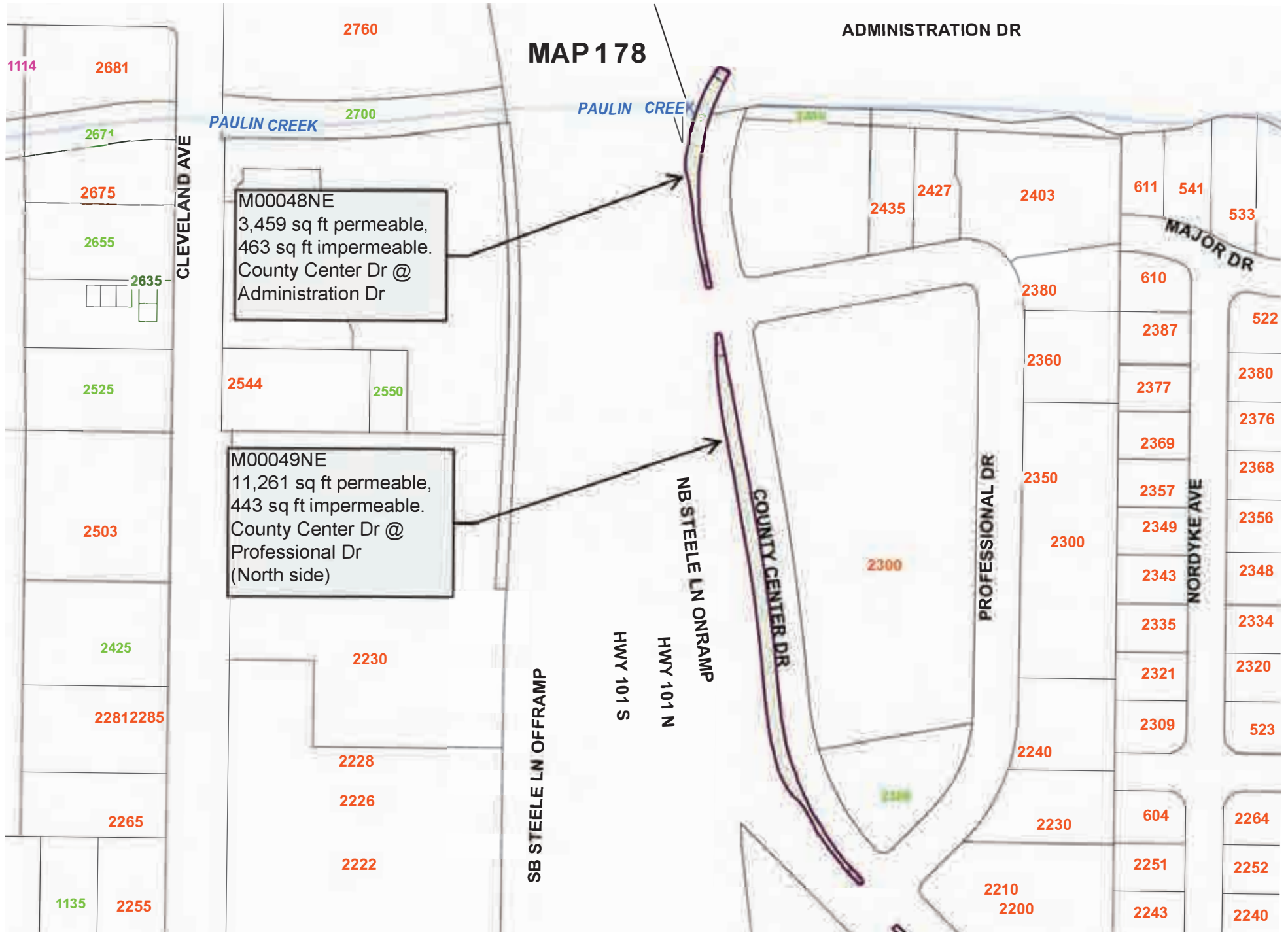


MAP 173

M00024NE
3,938 sq ft permeable,
606 sq ft impermeable.
Montecito Blvd @
Middle Rincon Rd

MAP 174

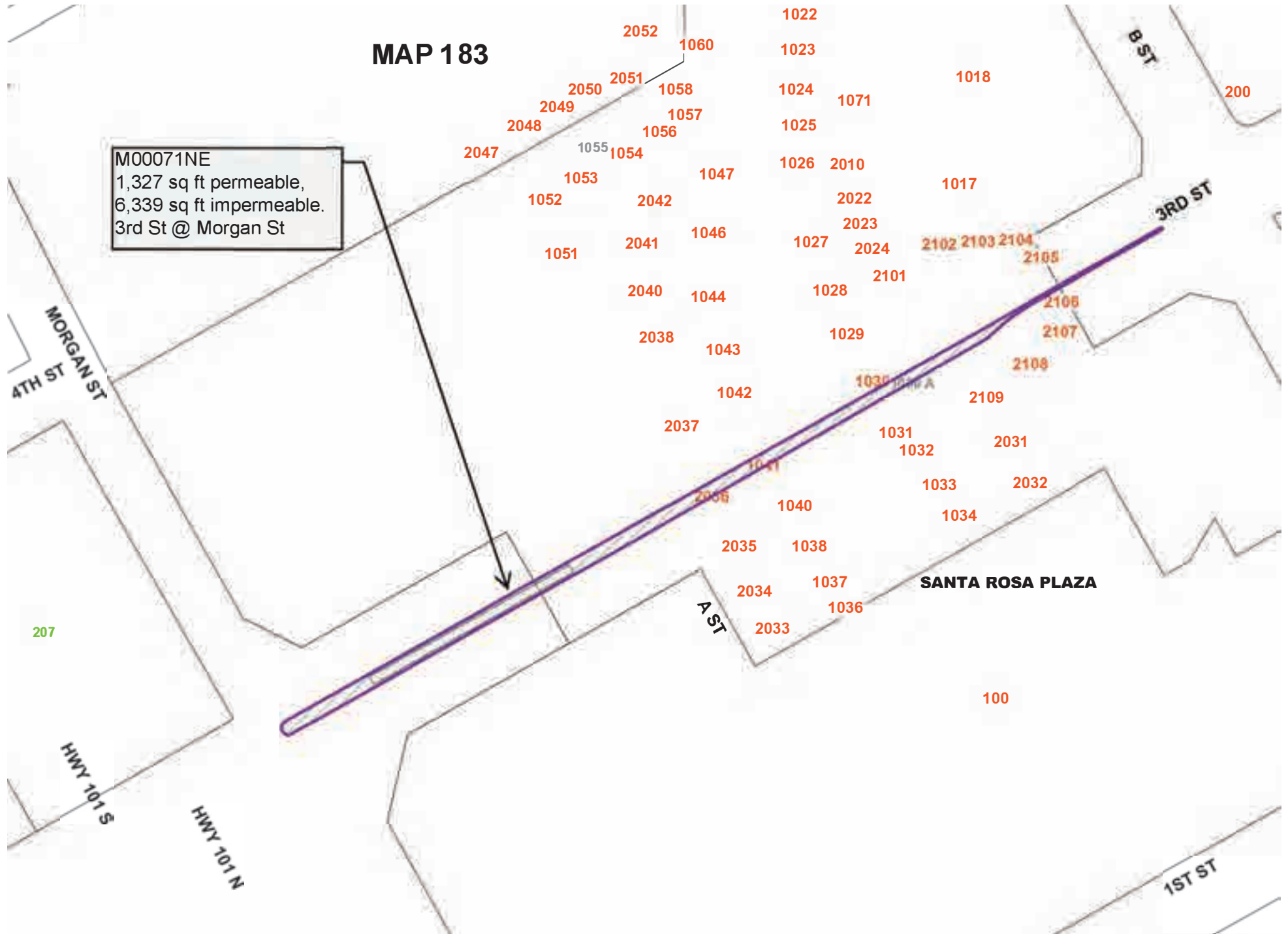




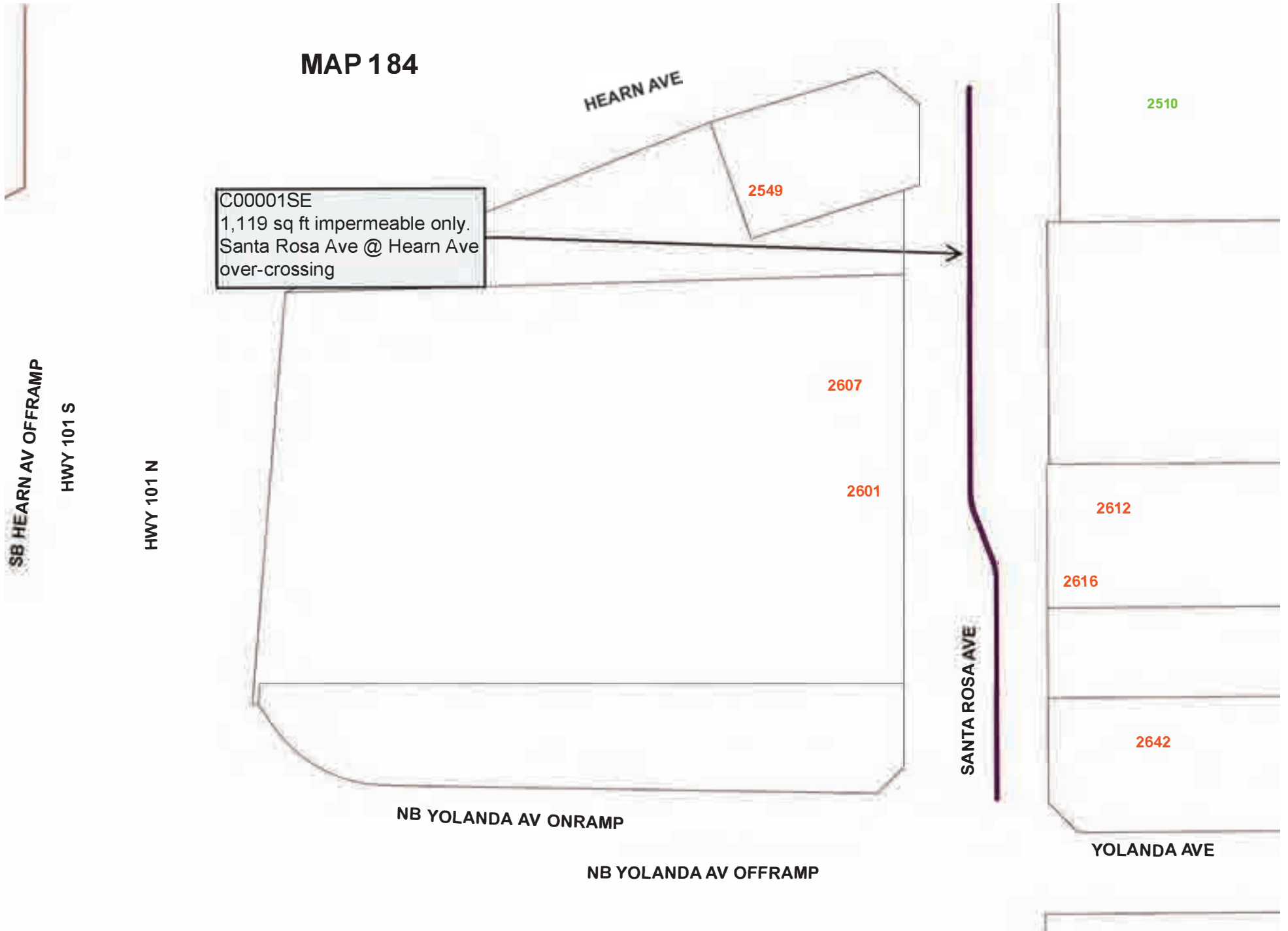
MAP 183

M00071NE

1,327 sq ft permeable,
6,339 sq ft impermeable.
3rd St @ Morgan St



MAP 184



MAP 185

HWY 101 N

NB 101 TO 12

7 8 9 10 11 12

1009

1015

6

5

4

3

2

C00003SE

334 sq ft impermeable only.
Santa Rosa Ave @ Barham Ave
(North side)

C00002SE

226 sq ft impermeable only.
Santa Rosa Ave @ Barham Ave
(South side)

360 1235

1008

1027

1022

SANTA ROSA AVE

1026

1064

501

503

BARHAM AVE

1010

B

1016

1077

1031

1060

A

1084

1075

1088

1081

SAST

1089

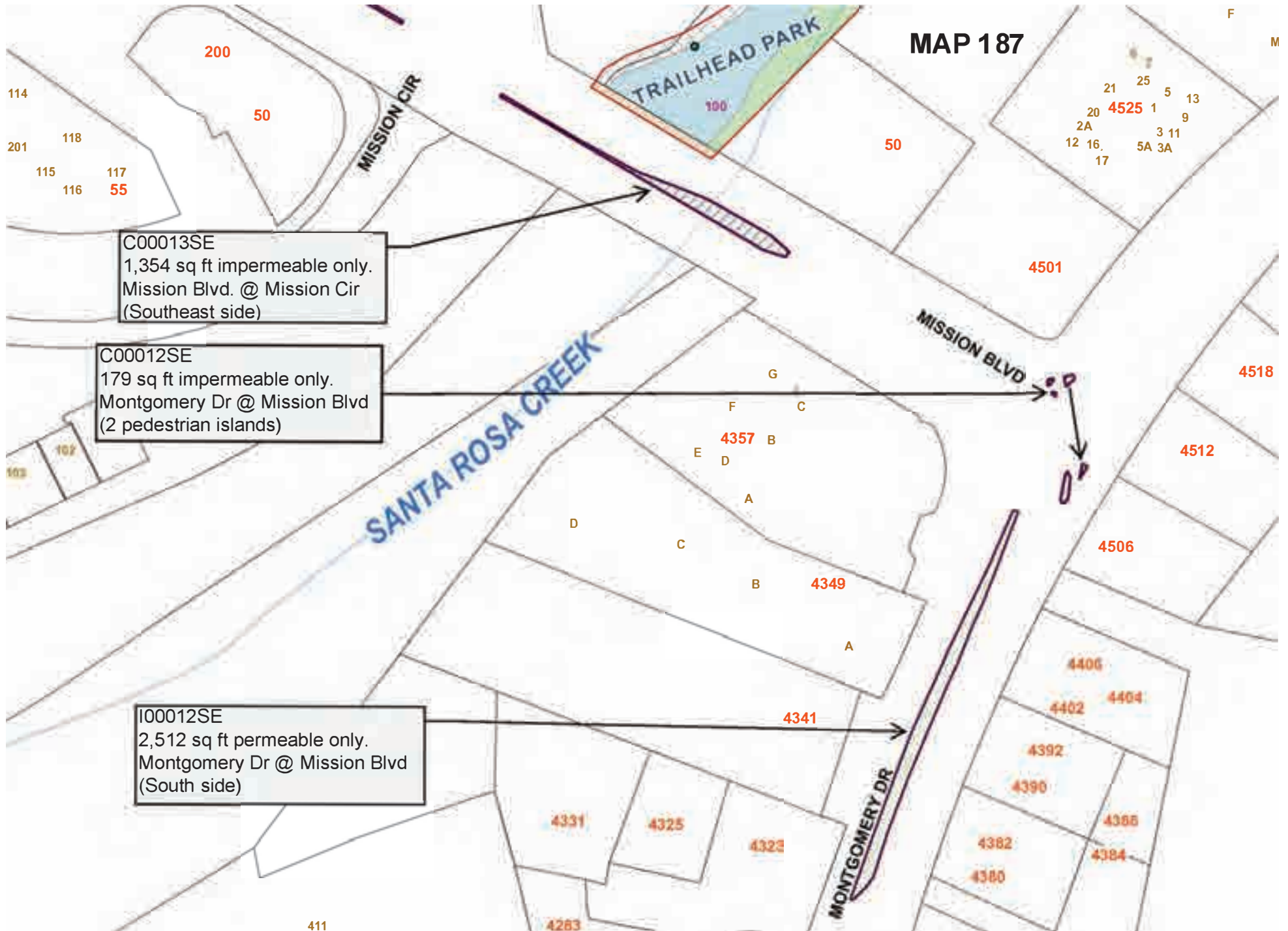
1100

1110

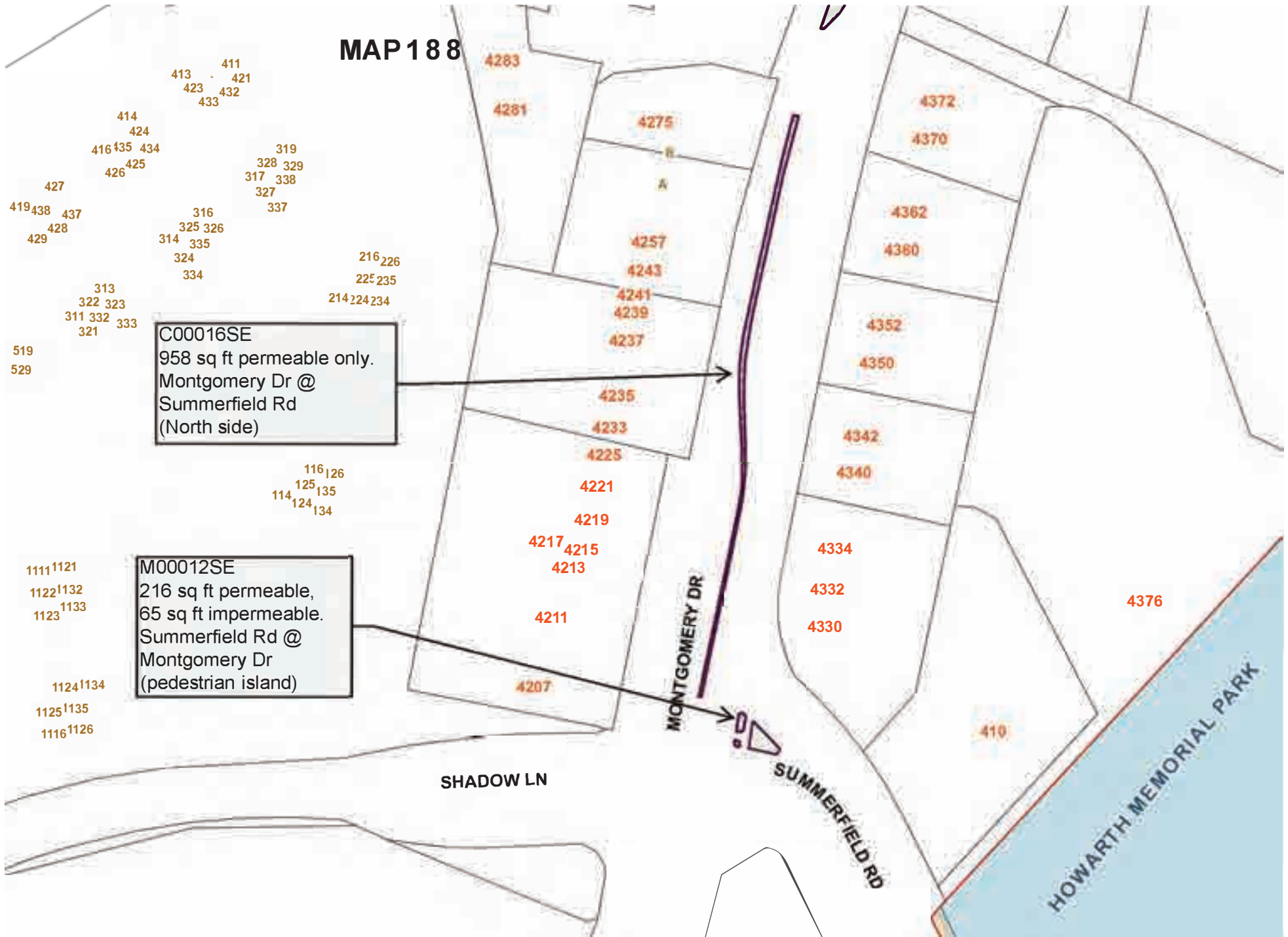
1130

520

MAP 187



MAP 188



C00016SE
958 sq ft permeable only.
Montgomery Dr @
Summerfield Rd
(North side)

M00012SE
216 sq ft permeable,
65 sq ft impermeable.
Summerfield Rd @
Montgomery Dr
(pedestrian island)

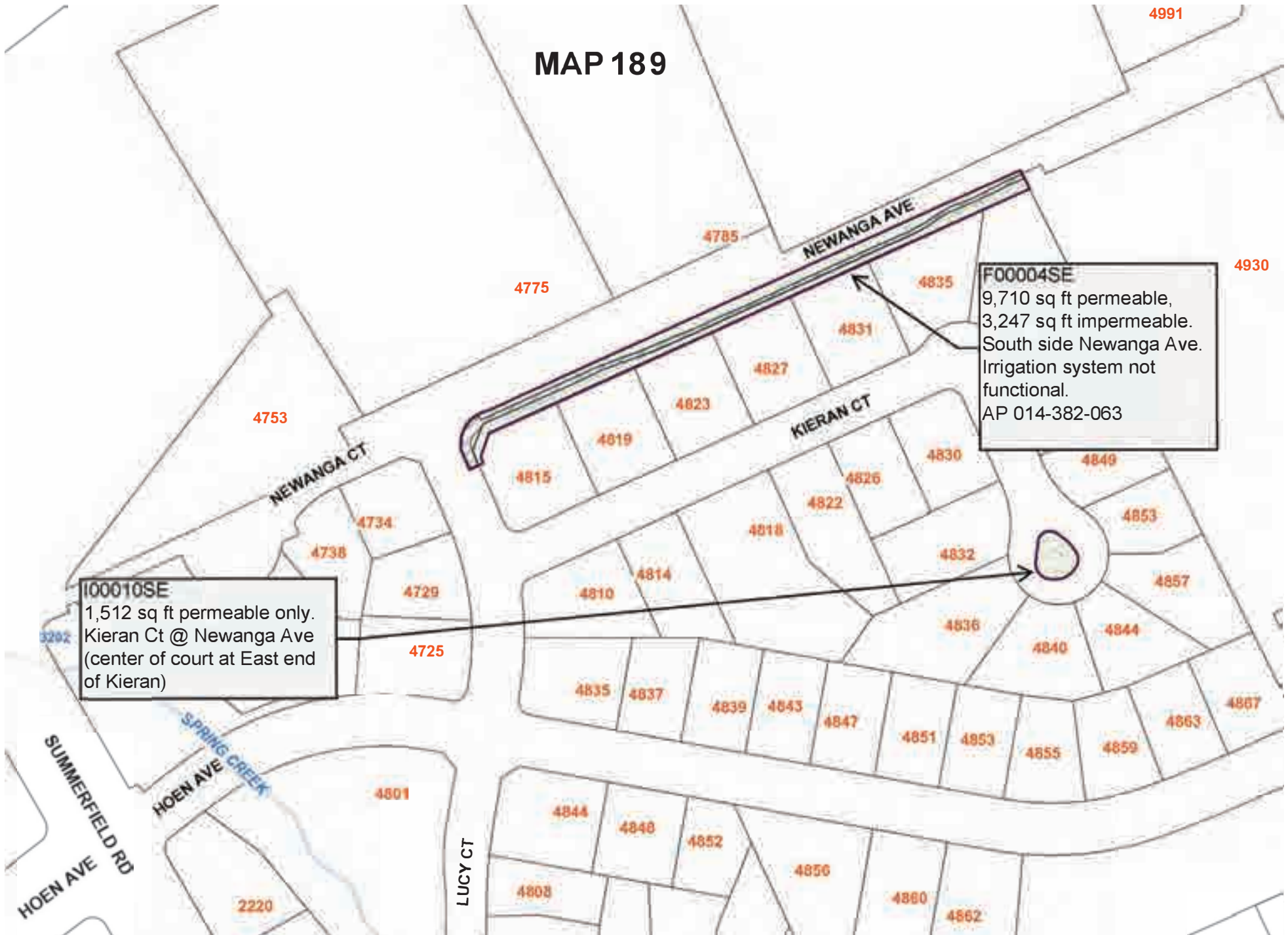
SHADOW LN

MONTGOMERY DR

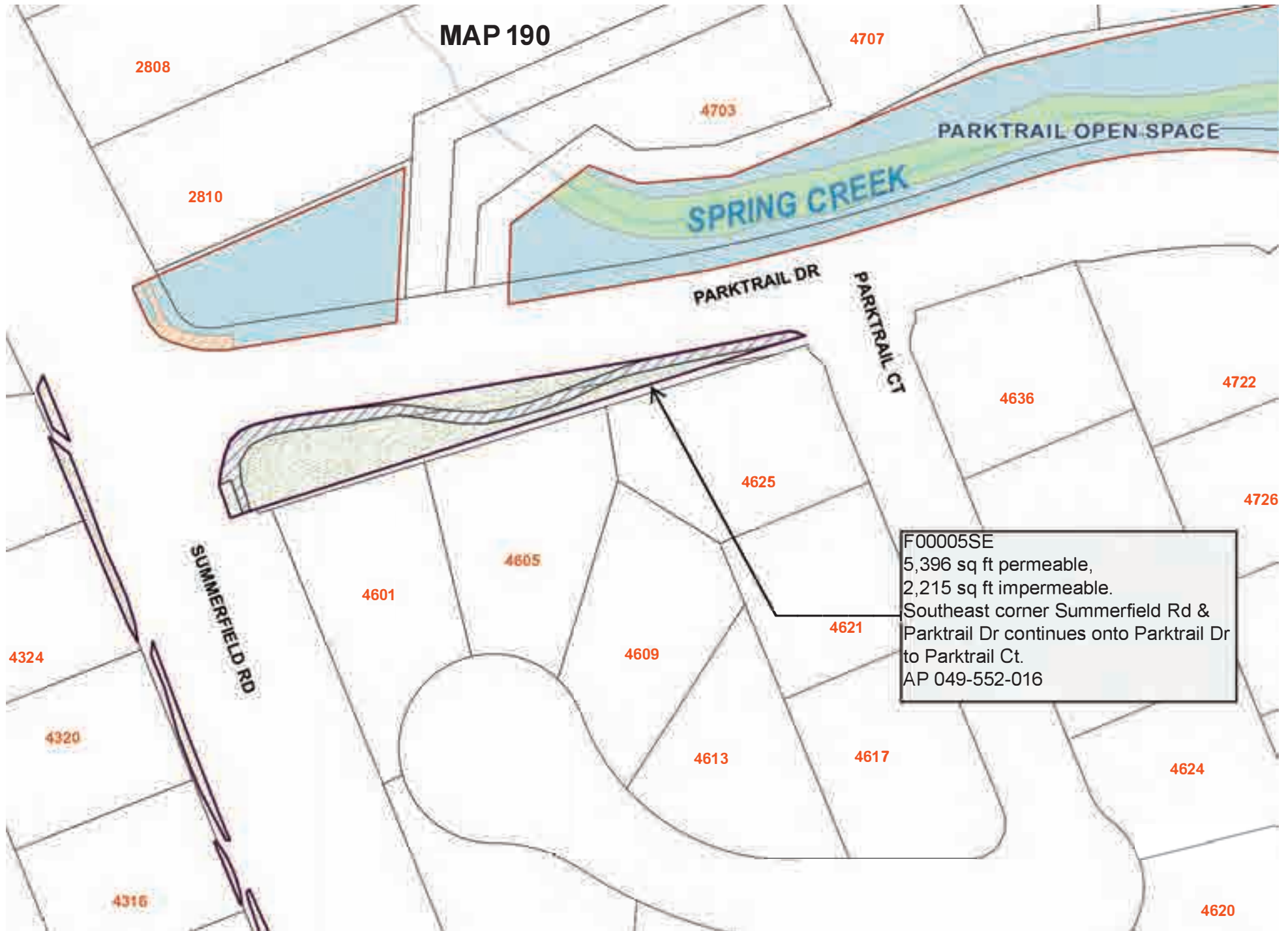
SUMMERFIELD RD

HOWARTH MEMORIAL PARK

MAP 189



MAP 190



MAP 191

SILVERWOOD ST

BROOKSHIRE CIR

100006SE
3603 Sqft. Permeable only
Summerfield Rd. and
Santa Rosita Ct. (North side)

M00011SE
217 Sqft. Permeable
823 Sqft. Impermeable
Twin Ct. and Horseshoe Dr.

TWIN CT

HORSESHOE DR

SAN ANTONIO PL

M00008SE
17,247 Sqft. Permeable
116 Sqft. Impermeable
Summerfield Rd. and
Santa Rosita Ct. (south side)

SAN ANTONIO DR

SANTA
ROSITA CT

SUMMERFIELD RD

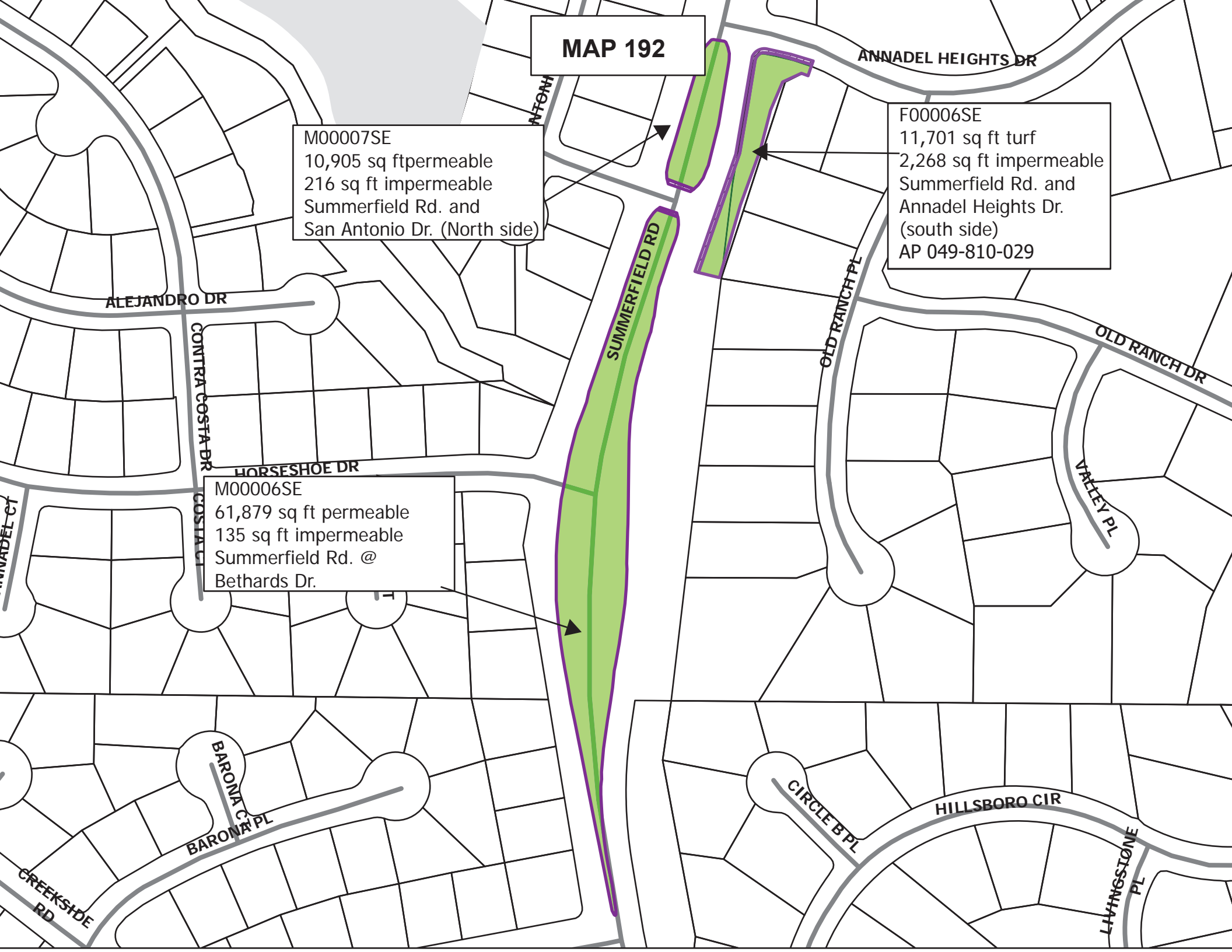


MAP 192

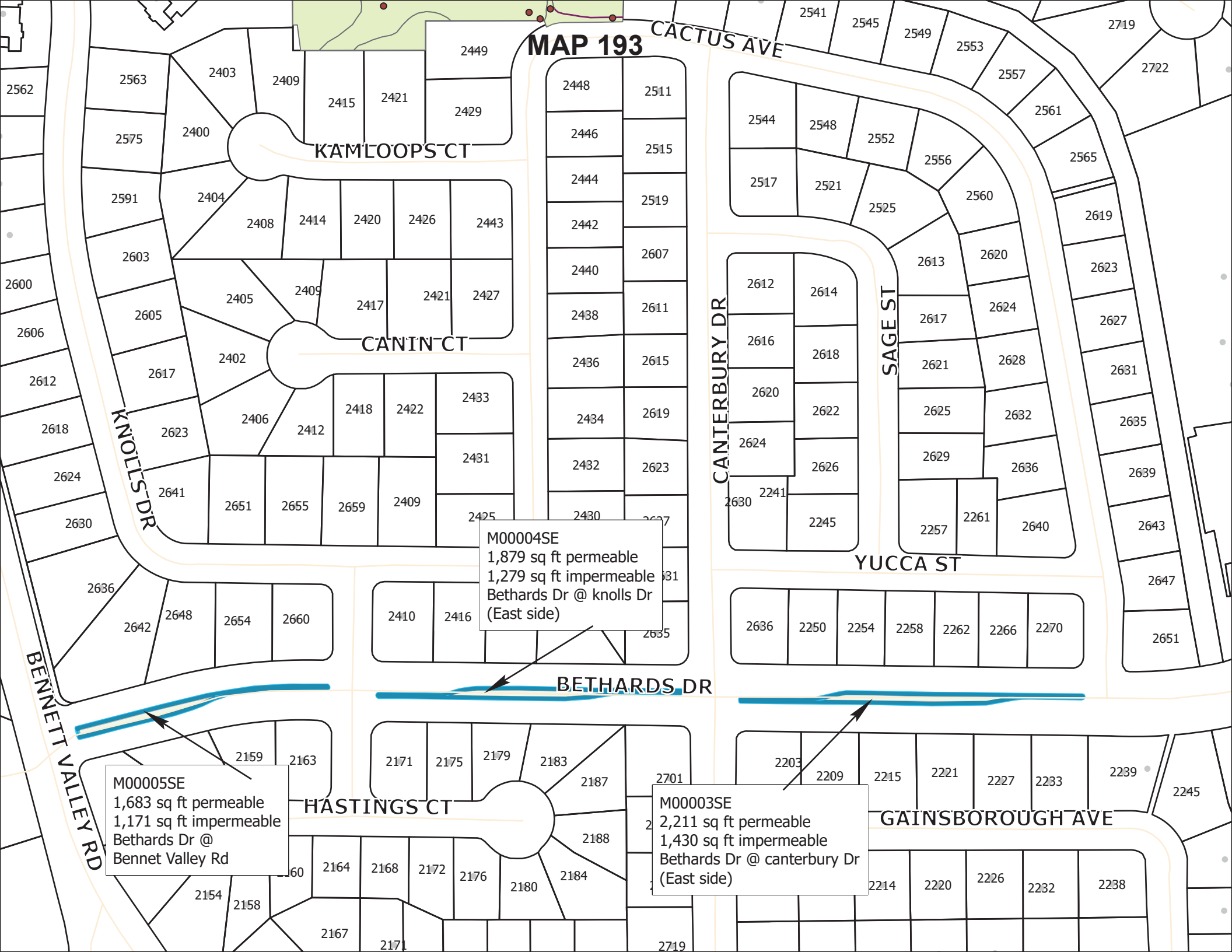
M00007SE
10,905 sq ft permeable
216 sq ft impermeable
Summerfield Rd. and
San Antonio Dr. (North side)

F00006SE
11,701 sq ft turf
2,268 sq ft impermeable
Summerfield Rd. and
Annadel Heights Dr.
(south side)
AP 049-810-029

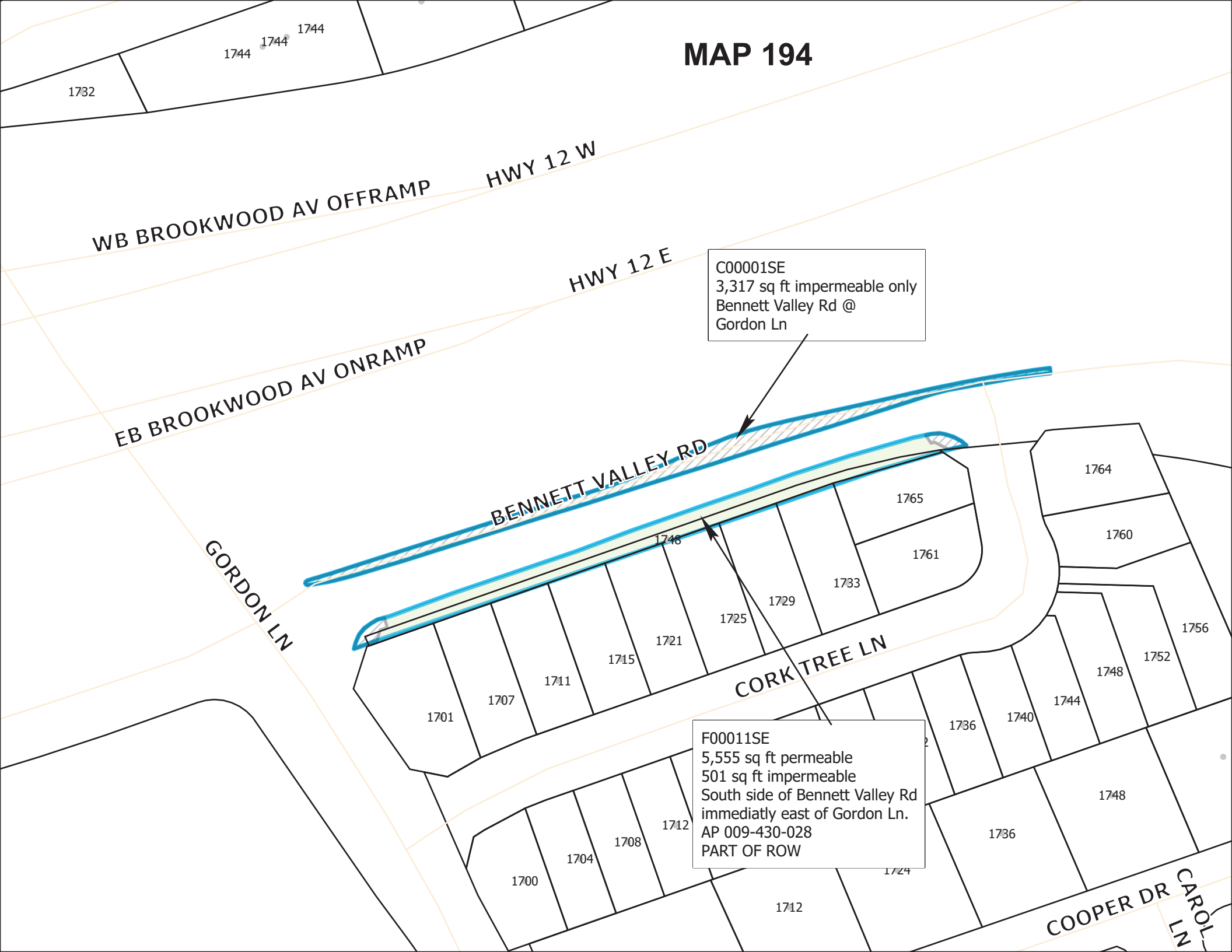
M00006SE
61,879 sq ft permeable
135 sq ft impermeable
Summerfield Rd. @
Bethards Dr.



MAP 193



MAP 194



C00001SE
3,317 sq ft impermeable only
Bennett Valley Rd @
Gordon Ln

F00011SE
5,555 sq ft permeable
501 sq ft impermeable
South side of Bennett Valley Rd
immediatly east of Gordon Ln.
AP 009-430-028
PART OF ROW

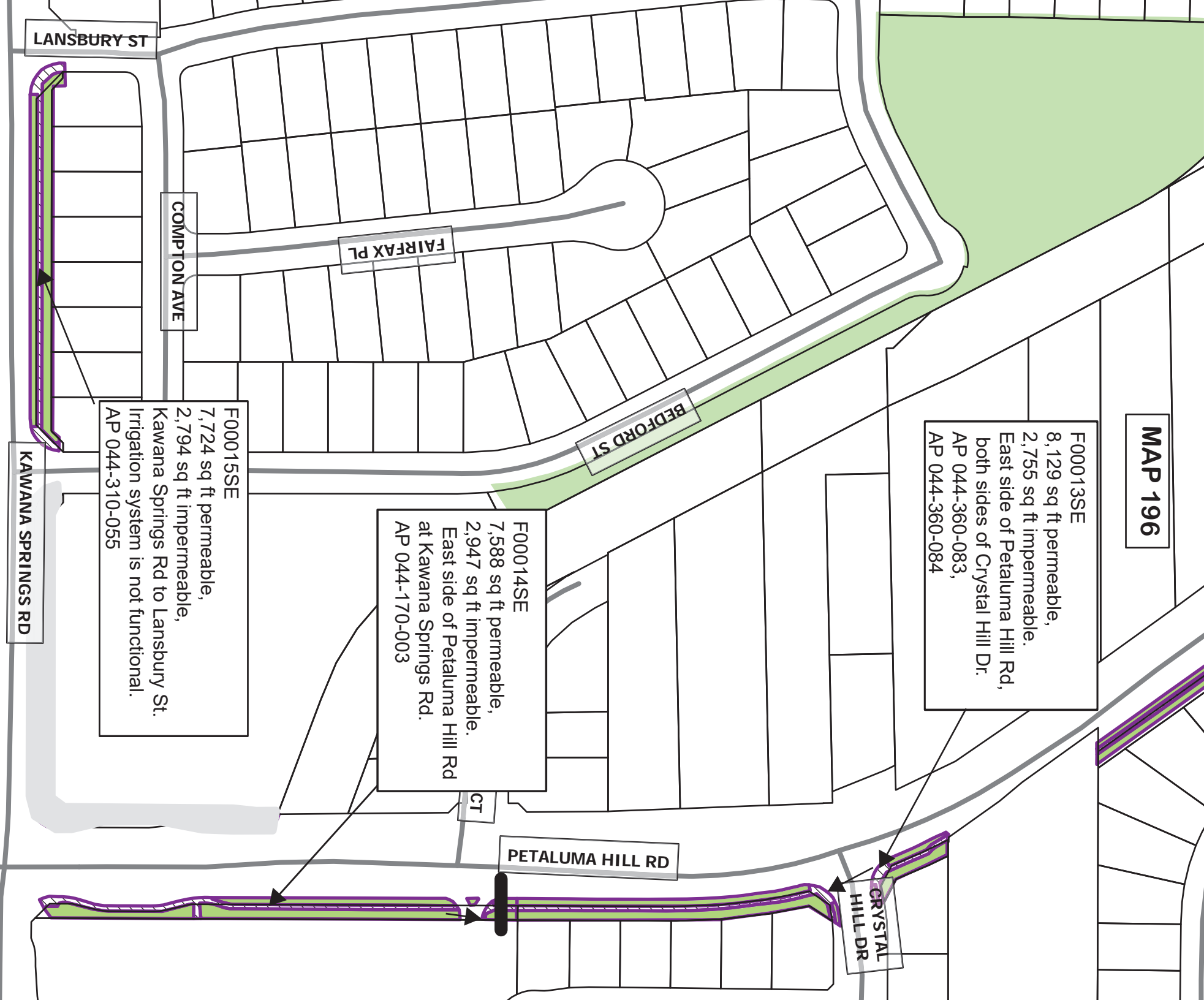
F00012SE
10,802 sq ft permeable,
4,862 sq ft impermeable.
East side of Petaluma Hill Rd.
both sides of Breeze Way.
Irrigation system is not functional.
AP 044-270-045,
AP 044-270-046,
AP 044-270-063

MAP 196

F00013SE
8,129 sq ft permeable,
2,755 sq ft impermeable.
East side of Petaluma Hill Rd,
both sides of Crystal Hill Dr.
AP 044-360-083,
AP 044-360-084

F00014SE
7,588 sq ft permeable,
2,947 sq ft impermeable.
East side of Petaluma Hill Rd
at Kawana Springs Rd.
AP 044-170-003

F00015SE
7,724 sq ft permeable,
2,794 sq ft impermeable,
Kawana Springs Rd to Lansbury St.
Irrigation system is not functional.
AP 044-310-055



LANSBURY ST

COMPTON AVE

FAIRFAX PL

BEDFORD ST

KAWANA SPRINGS RD

PETALUMA HILL RD

CRYSTAL HILL DR

MAP 197

F00017SE

14,080 sq ft permeable only.
East end of Burt St at Madrus
Rose St, off Old Petaluma Hill Rd.
AP 044-400-075

100013SE

894 sq ft permeable only.
Parkcreek Dr @ Burt St
(traffic circle)

HOLLY CREEK DR

BURT ST

CEDAR BERRY AVE

WINTERHAVEN AVE

PETALUMA HILL RD

OLD PETALUMA HILL RD

MADRUS ROSE ST

MAP 198

C00018SE
209 sq ft impermeable only.
Santa Rosa Ave @
Bellevue Ave

SANTA ROSA AVE

POWDERHORN AVE

F00018SE
6,225 sq ft permeable,
2,839 sq ft impermeable.
East side Santa Rosa Ave, both
sides of Powderhorn Ave.
No irrigation.
AP 044-330-058,
AP 044-330-059

TERRIMAY LN

C
3099
K

BELLEVUE AVE

I00014SE
7,272 sq ft permeable only.
Bellevue Ave @
Santa Rosa Ave

I00015SE
4,349 sq ft permeable only.
Bellevue Ave @
Terrimay Ln



HOEN AVE

MAP 200

F00020SE

1,269 sq ft permeable,
681 sq ft impermeable.

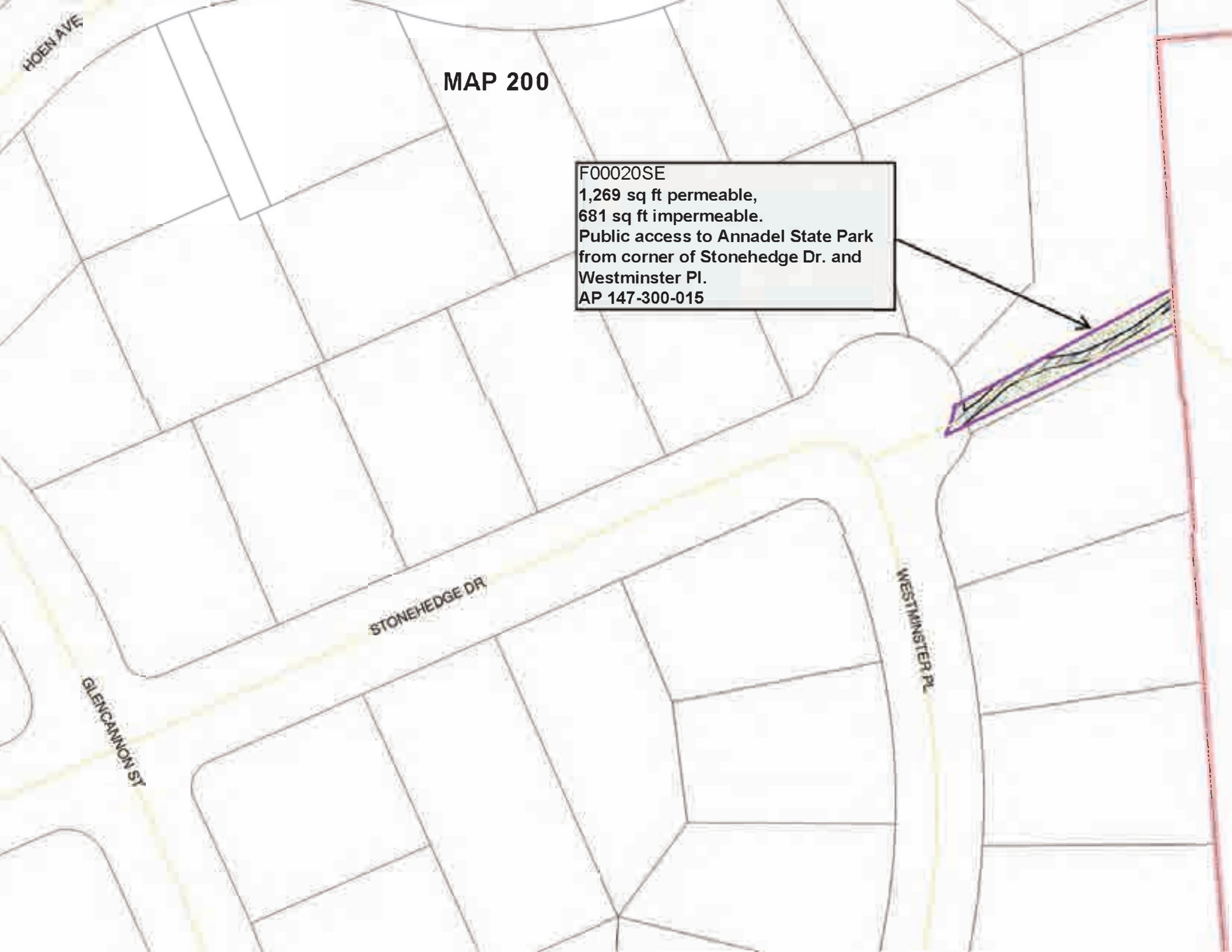
Public access to Annadel State Park
from corner of Stonehedge Dr. and
Westminster Pl.

AP 147-300-015

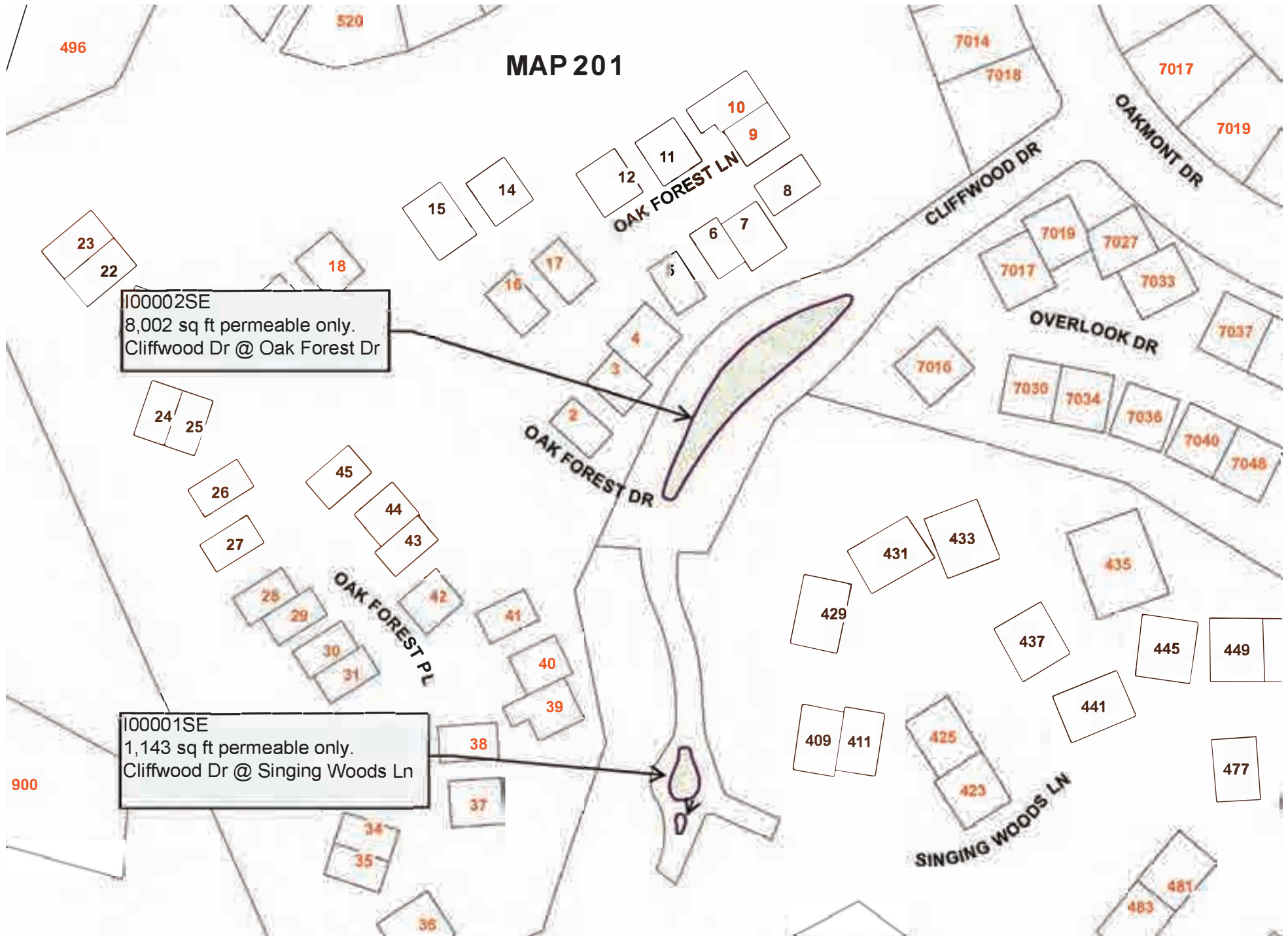
STONEHEDGE DR

GLENCANNON ST

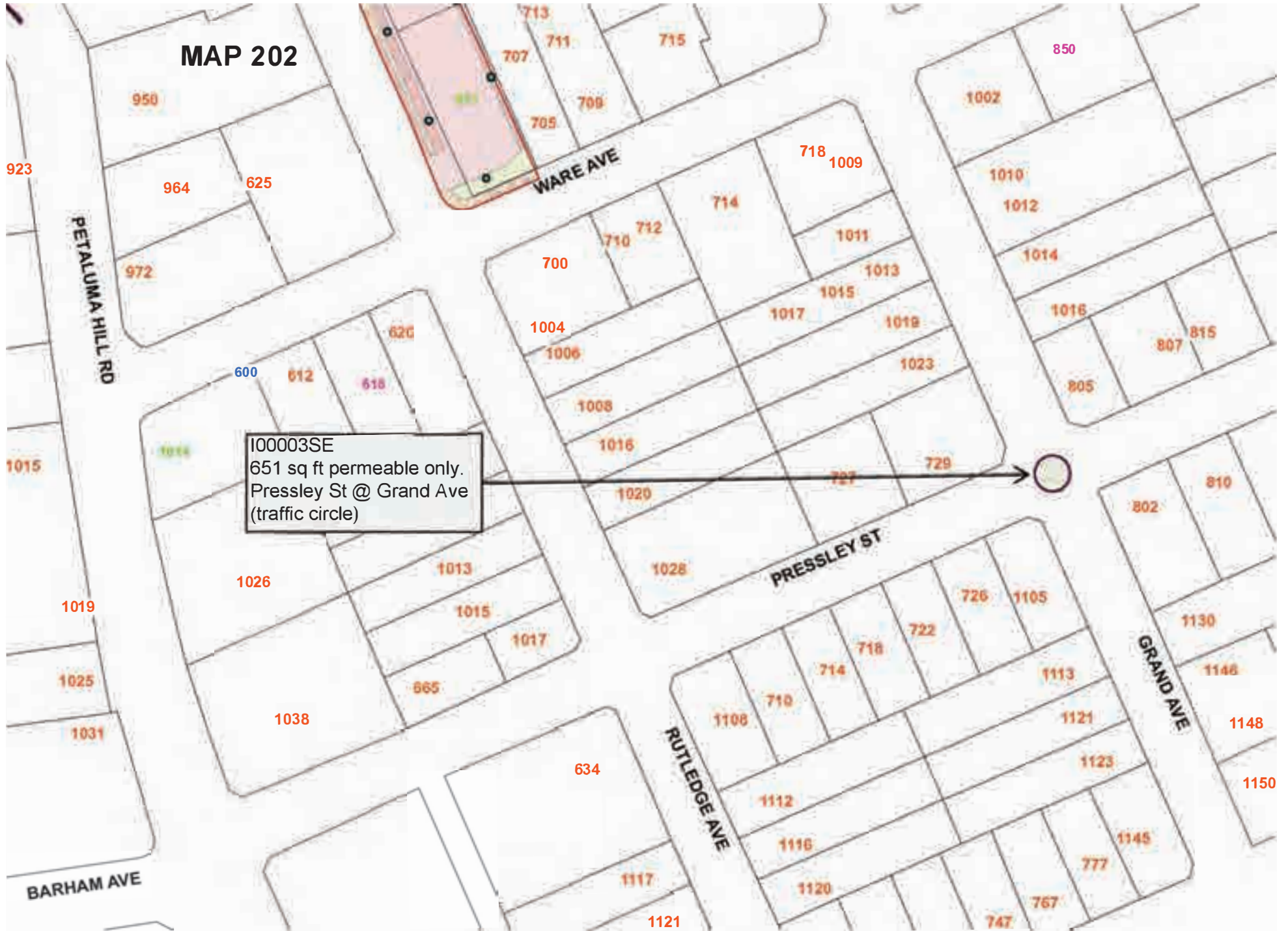
WESTMINSTER PL



MAP 201



MAP 202



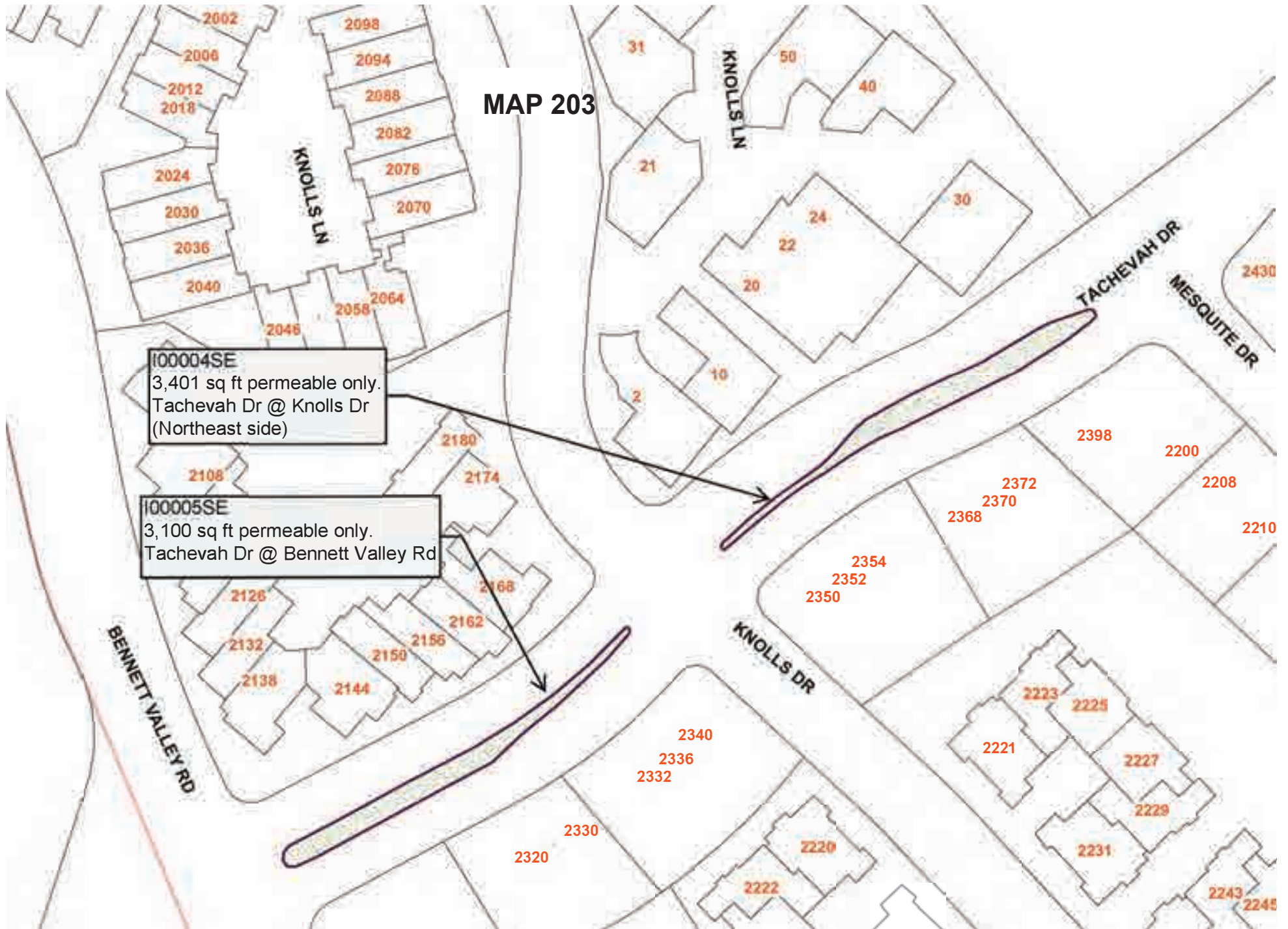
MAP 203

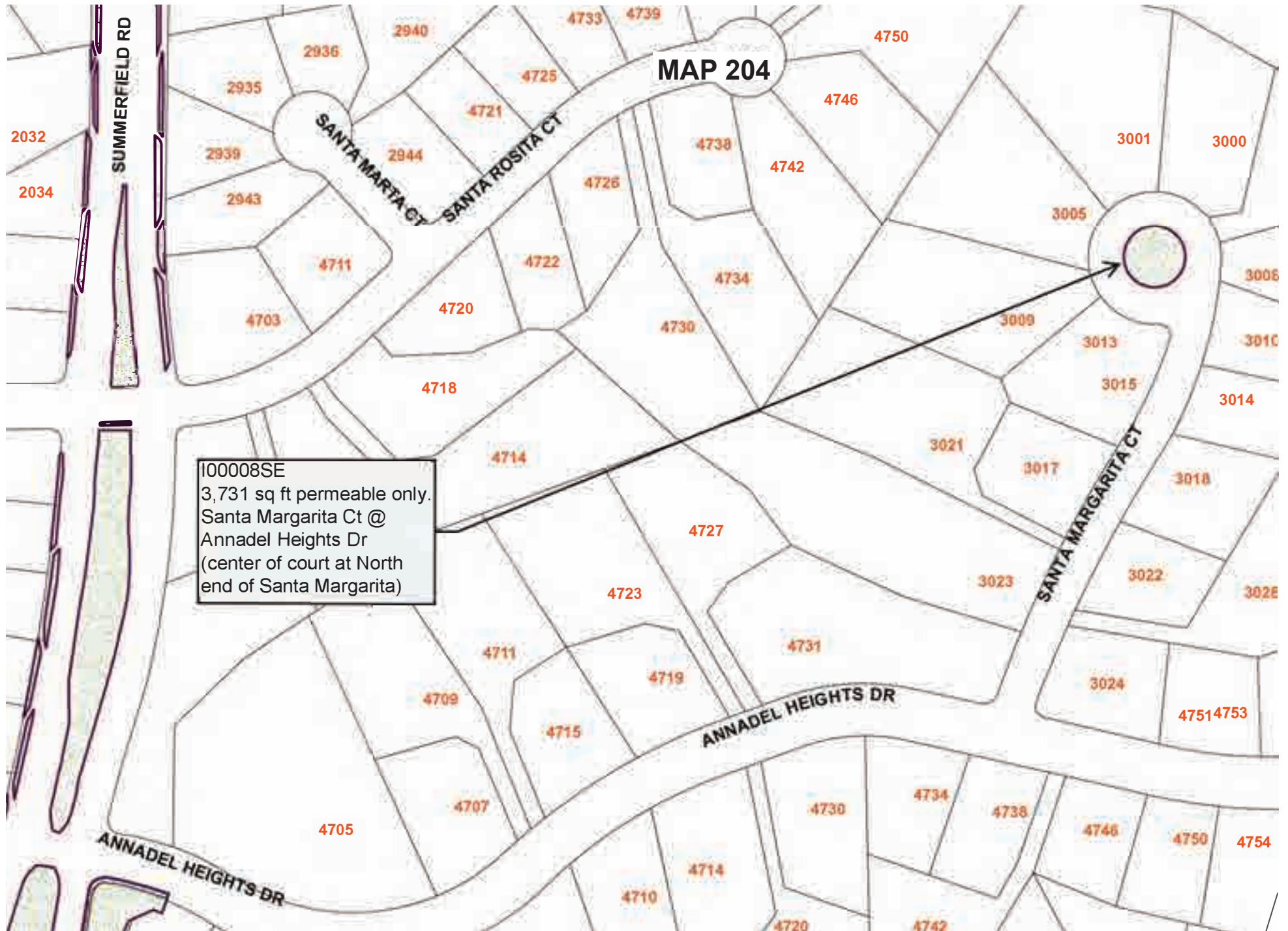
100004SE

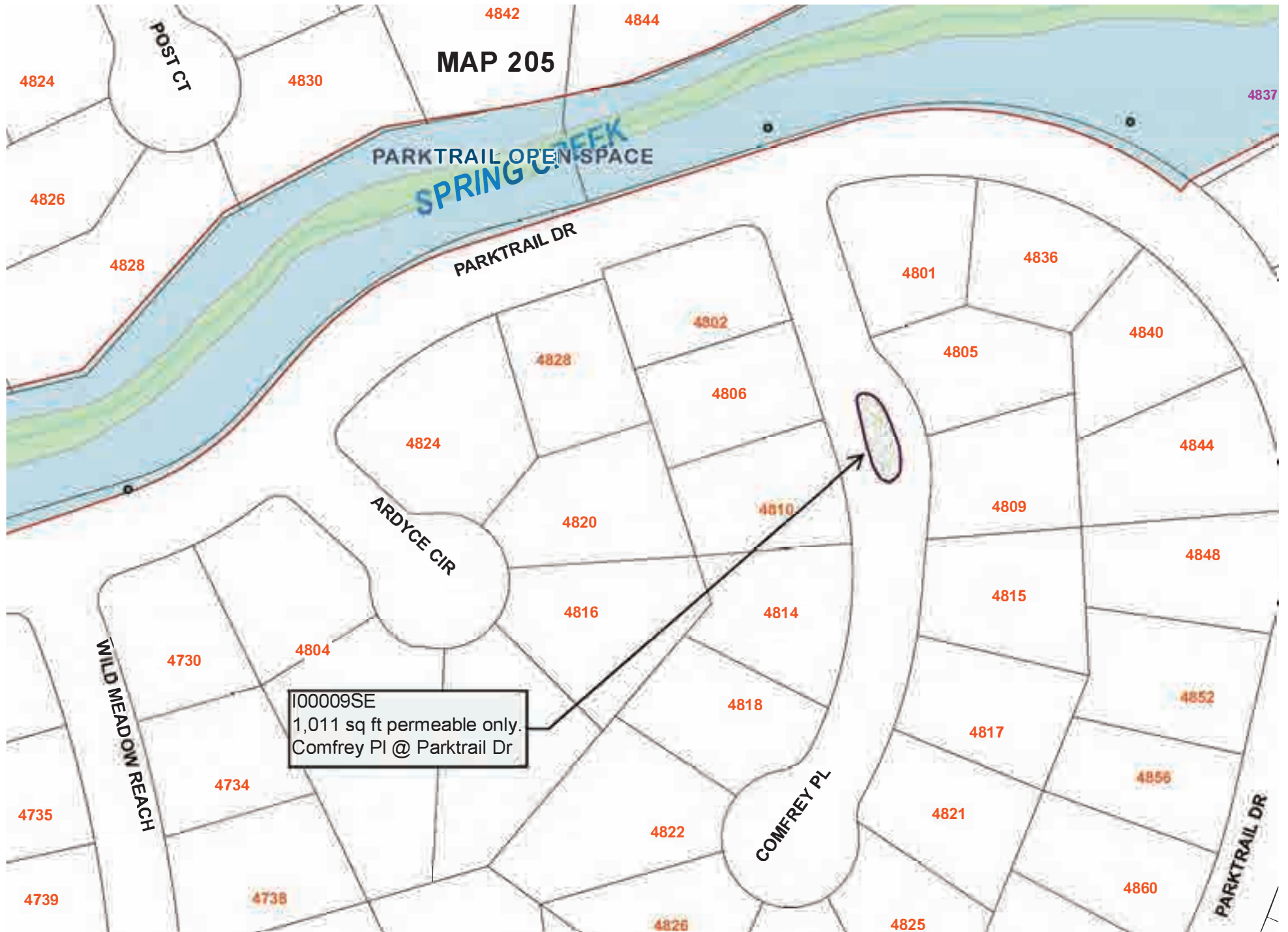
3,401 sq ft permeable only.
Tachevah Dr @ Knolls Dr
(Northeast side)

100005SE

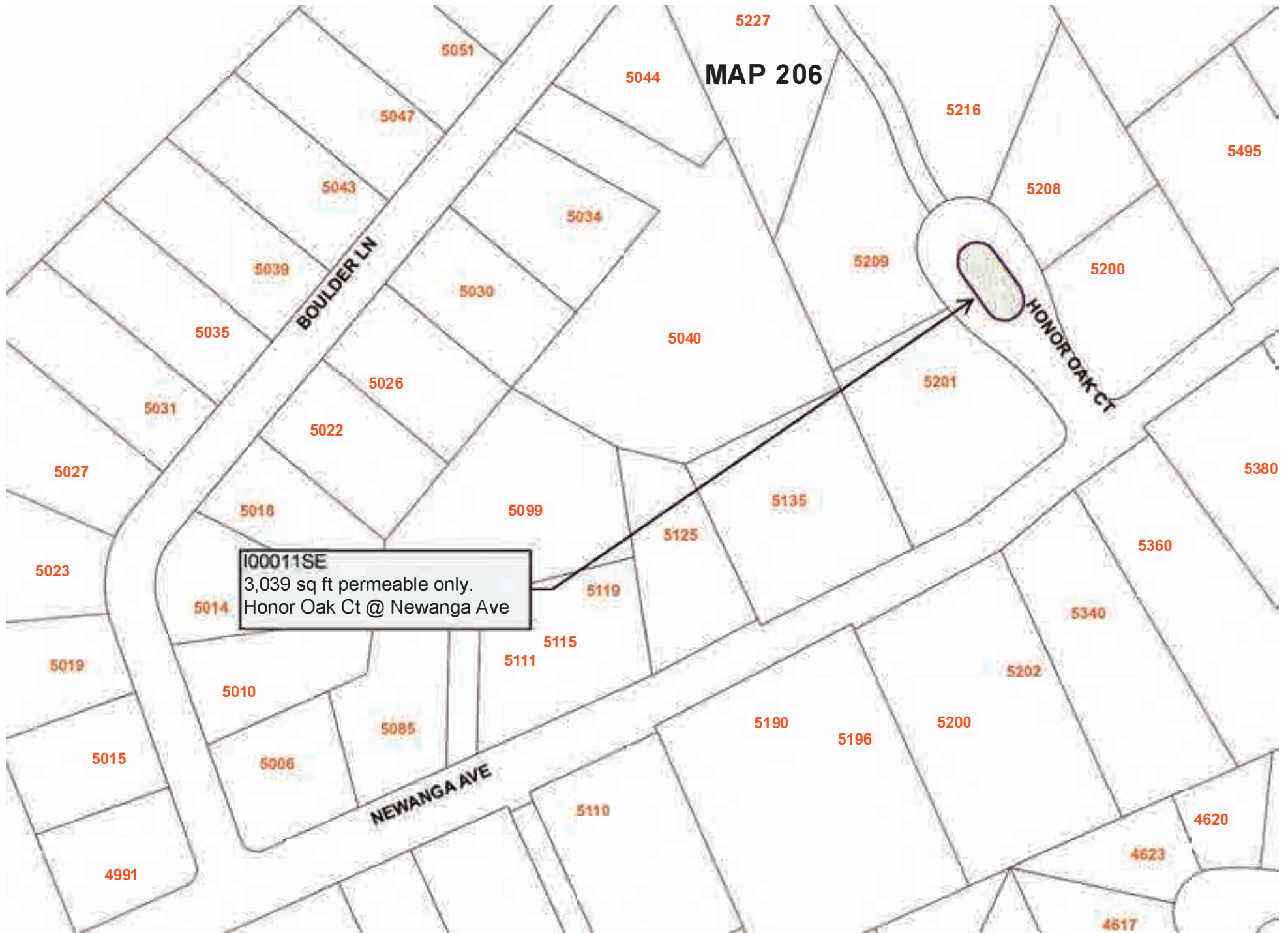
3,100 sq ft permeable only.
Tachevah Dr @ Bennett Valley Rd







MAP 206

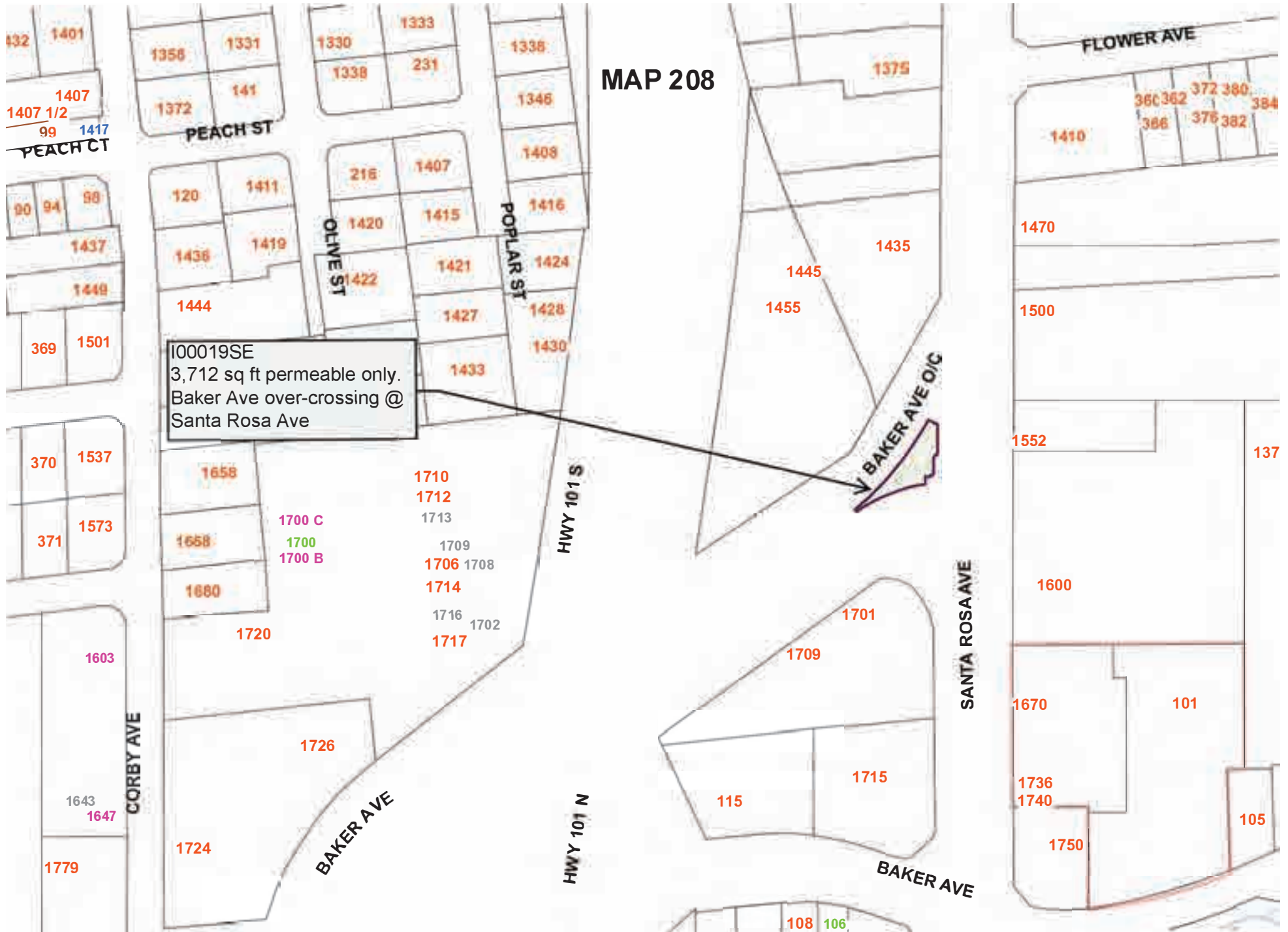


MAP 207

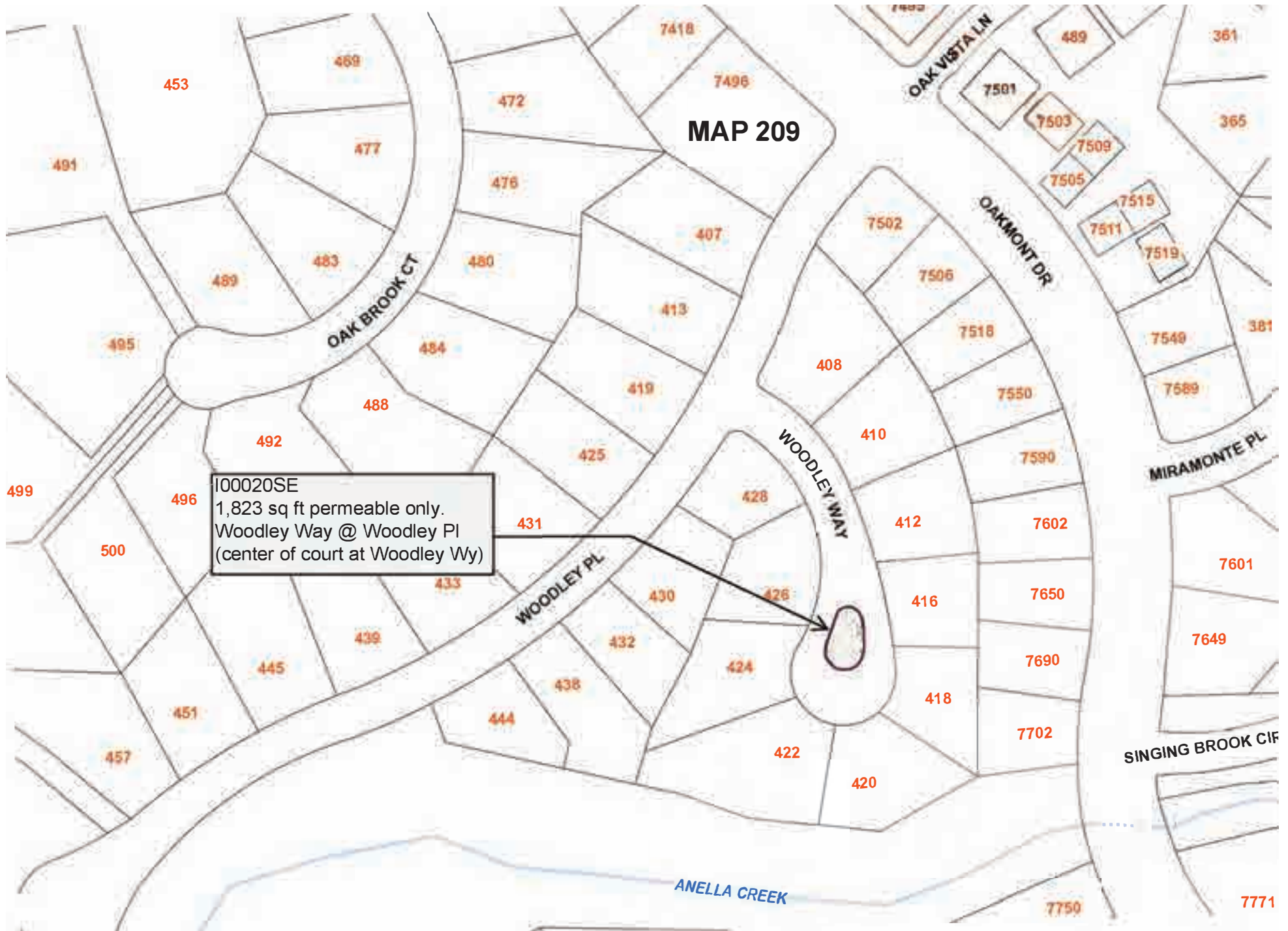
100016SE
1,075 sq ft permeable only.
Belhaven Ct @ Belhaven Cir
(center of court)



MAP 208



MAP 209



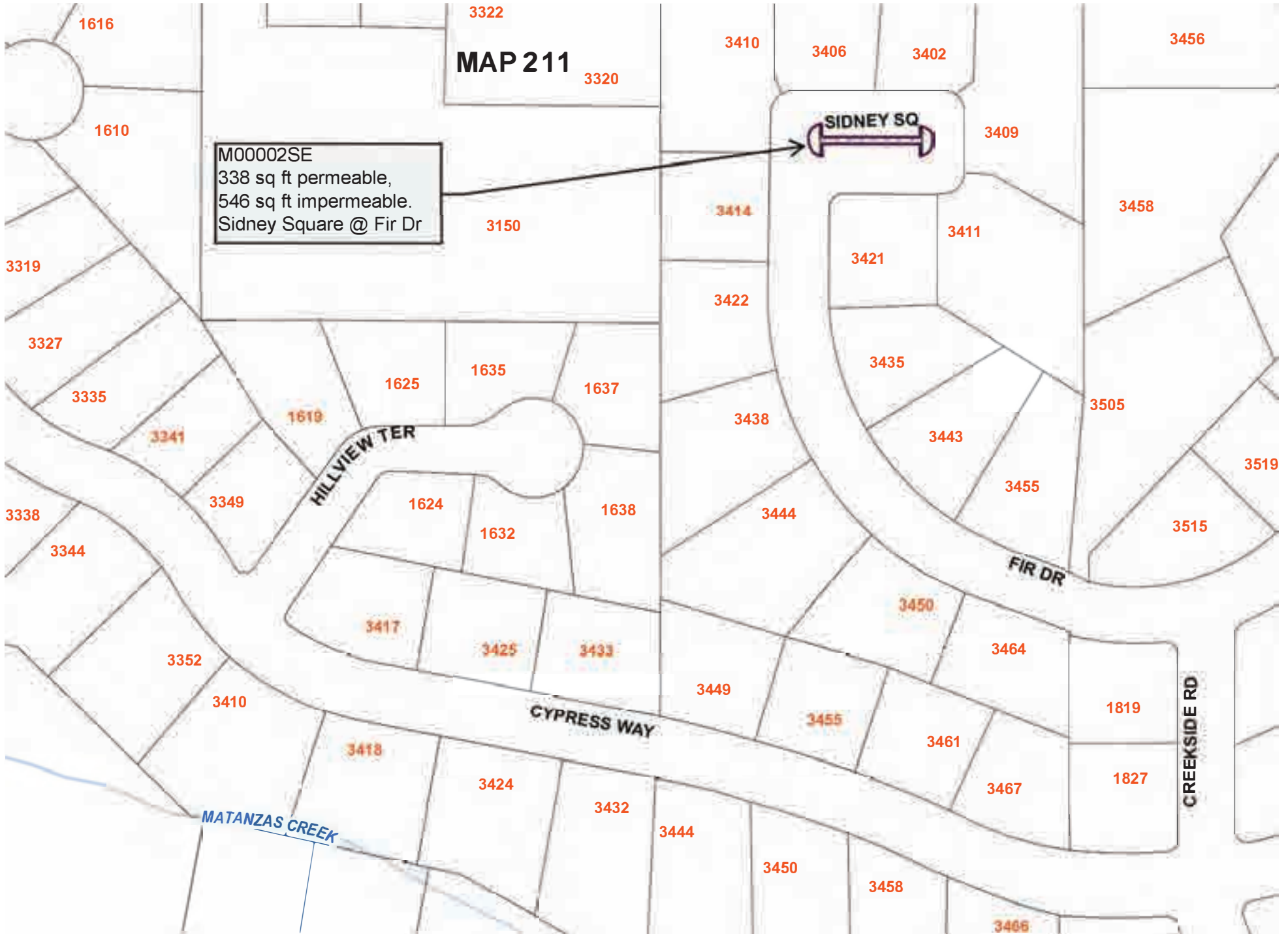
MAP 210

M00001SE
 17,397 sq ft permeable,
 111 sq ft impermeable.
 Hillsdale Dr @ Ridgeseen Dr
 (center of court at South end
 of Hillsdale)

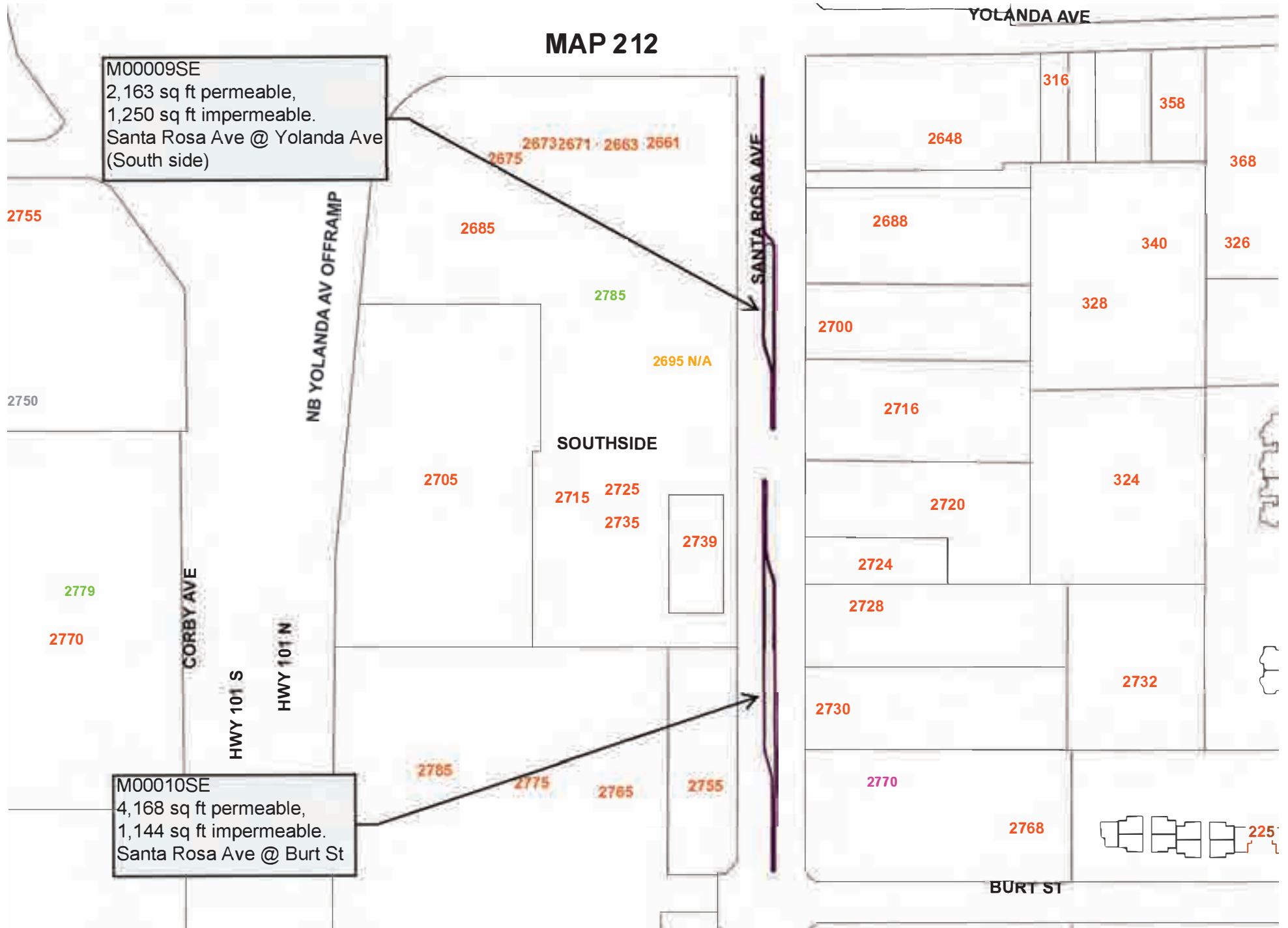
M00001SE
17,397 sq ft permeable,
111 sq ft impermeable.
Hillsdale Dr @ Ridgegreen Dr
(center of court at South end
of Hillsdale)

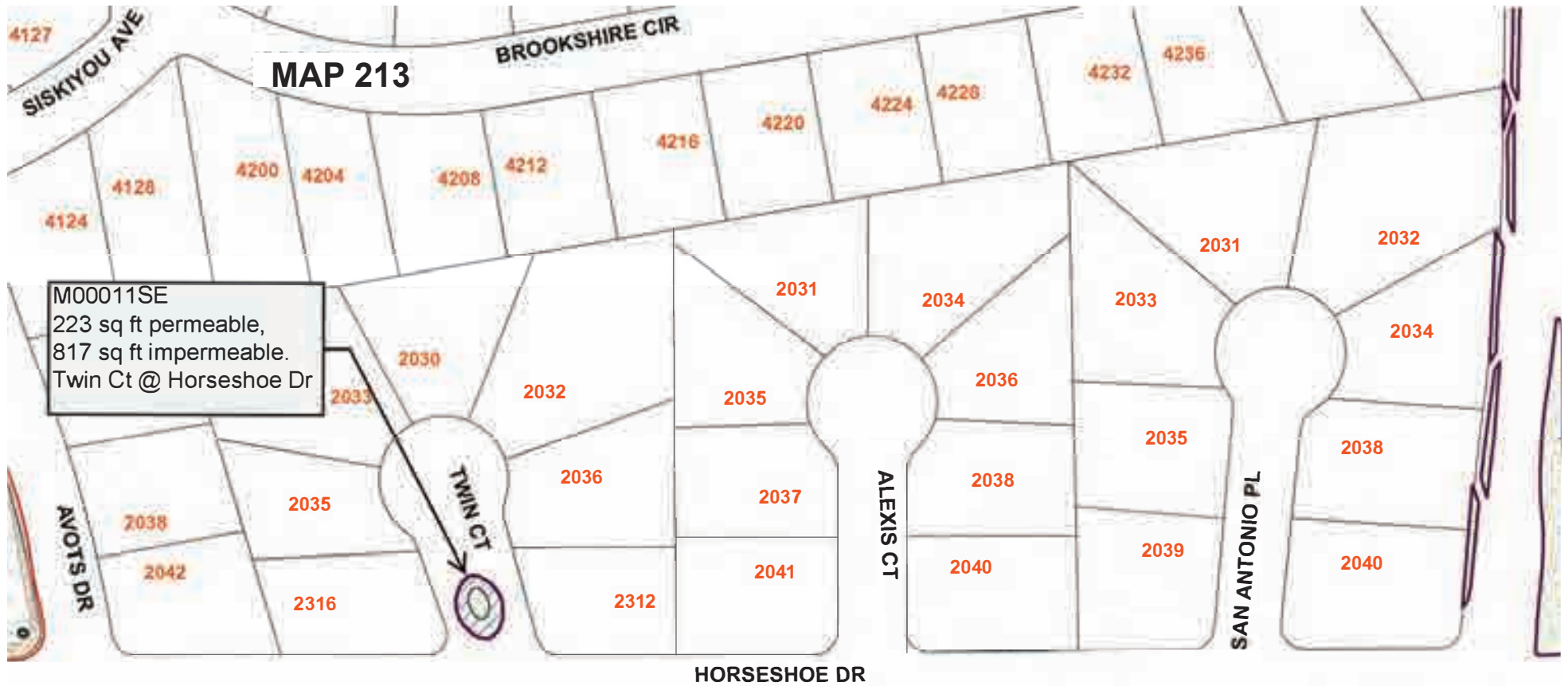
MAP 211

M00002SE
338 sq ft permeable,
546 sq ft impermeable.
Sidney Square @ Fir Dr

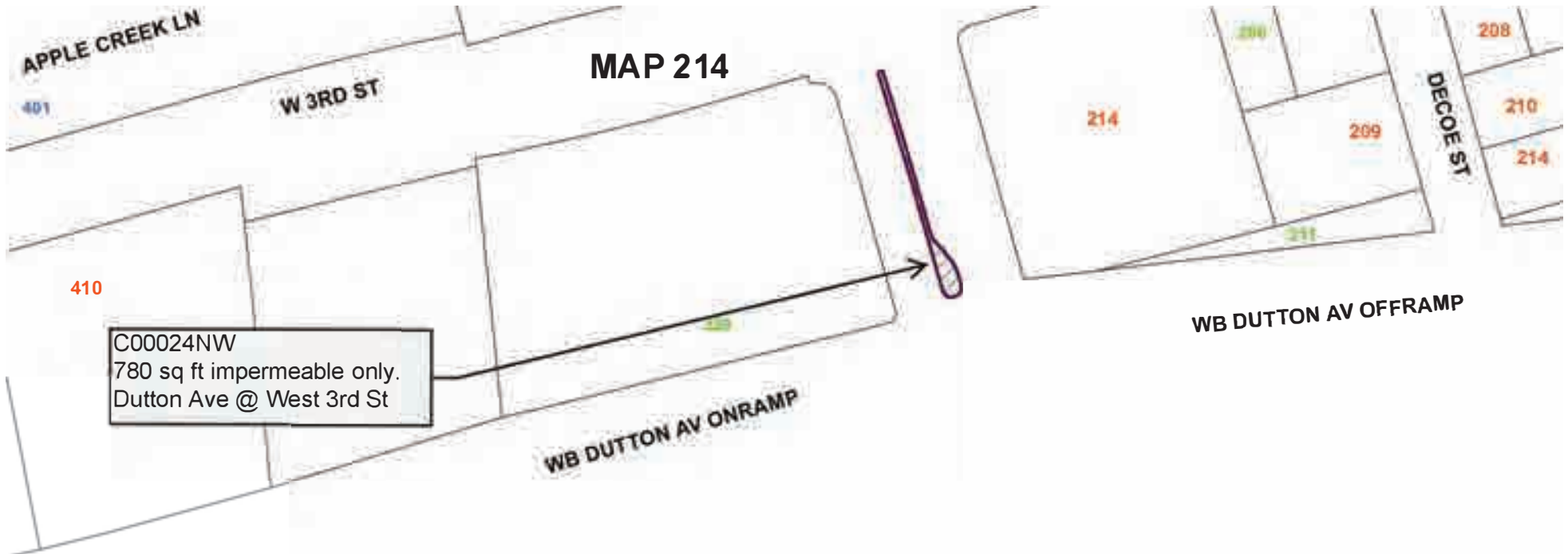


MAP 212

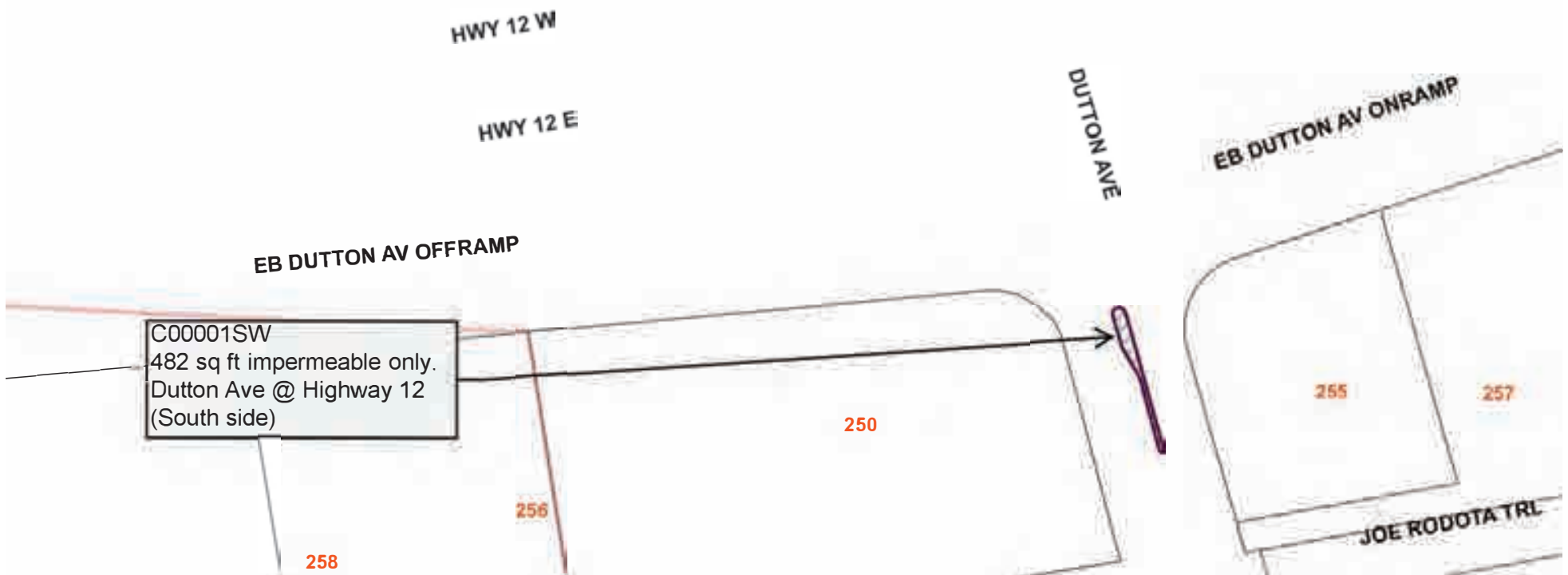




MAP 214



WB DUTTON AV OFFRAMP



MAP 215

C00002SW
210 sq ft impermeable only.
Hearn Ave @ Corby Ave

2515

2514

2503

2541 2547 2553 2559 2509 2511 2513

2510

2539 2545 2551 2557

2517

2515

2530

2535 2533 2531 2529 2527 2525 2523 2521 2519

2557

2556

2557

2571

2572

2574

2571

2585

2578

2576

2585

2593

655

635

633

KENTON CT

537

401
489
487

493

471

2571

2575

HEARN AVE

CORBY AVE

CORBY AVE

440

496

2600

2667

DOWD DR

C00005SW
1,436 sq ft impermeable only.
Hearn Ave @ Railroad crossing
(both sides of tracks)

810

COLGAN CREEK

MAP 217

C00004SW
422 sq ft impermeable only.
N Wright Rd @ Sebastopol Rd

N WRIGHT RD

874

880

4125

4119

4055

4041

4019

4025

M00006SW
3,033 sq ft permeable,
1,666 sq ft impermeable.
Sebastopol Rd @
N Wright Rd (East side)

SEBASTOPOL RD

4110

4100

S WRIGHT RD

4145

4129

4056

4048

4036

4028

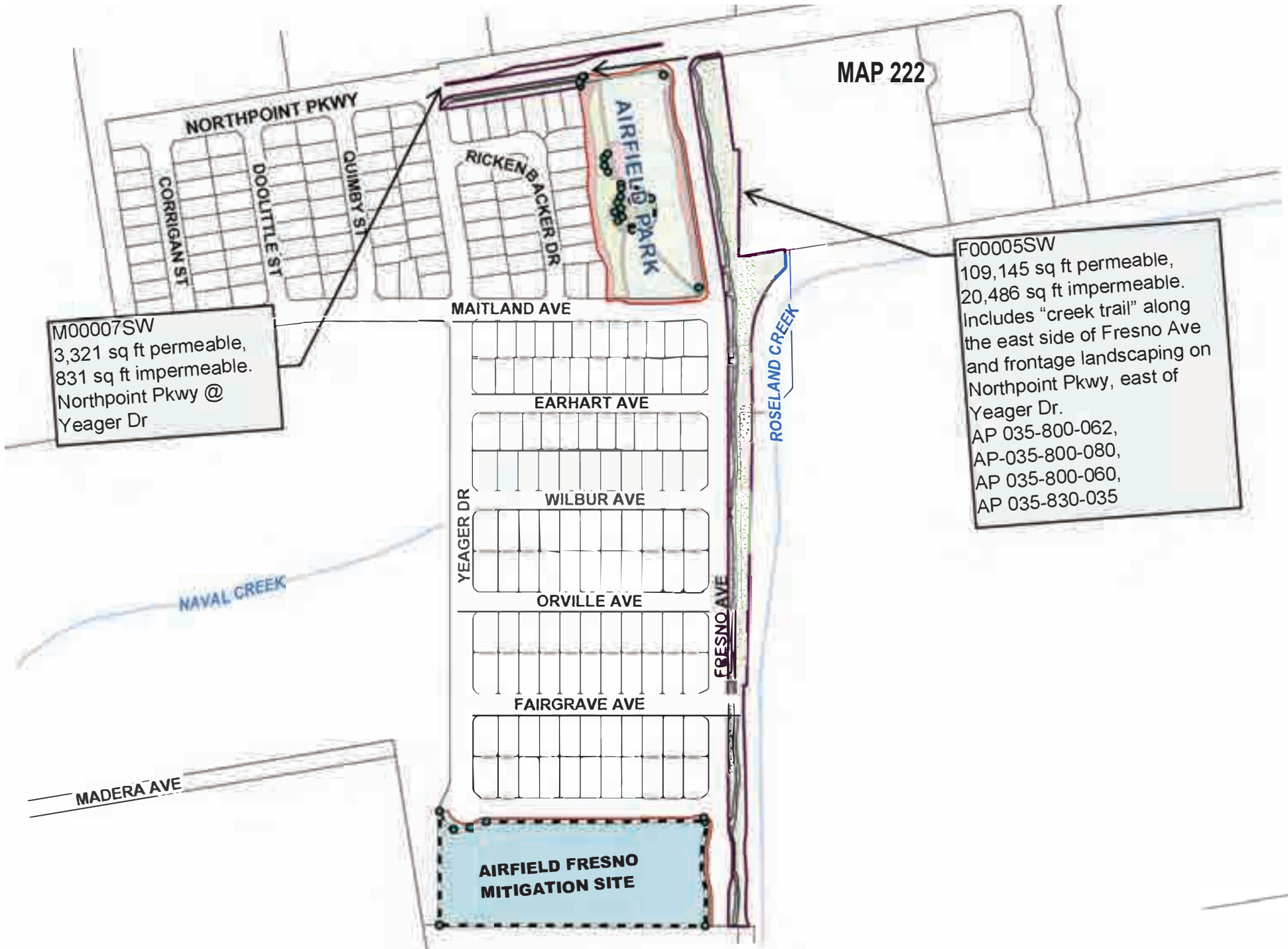
4026

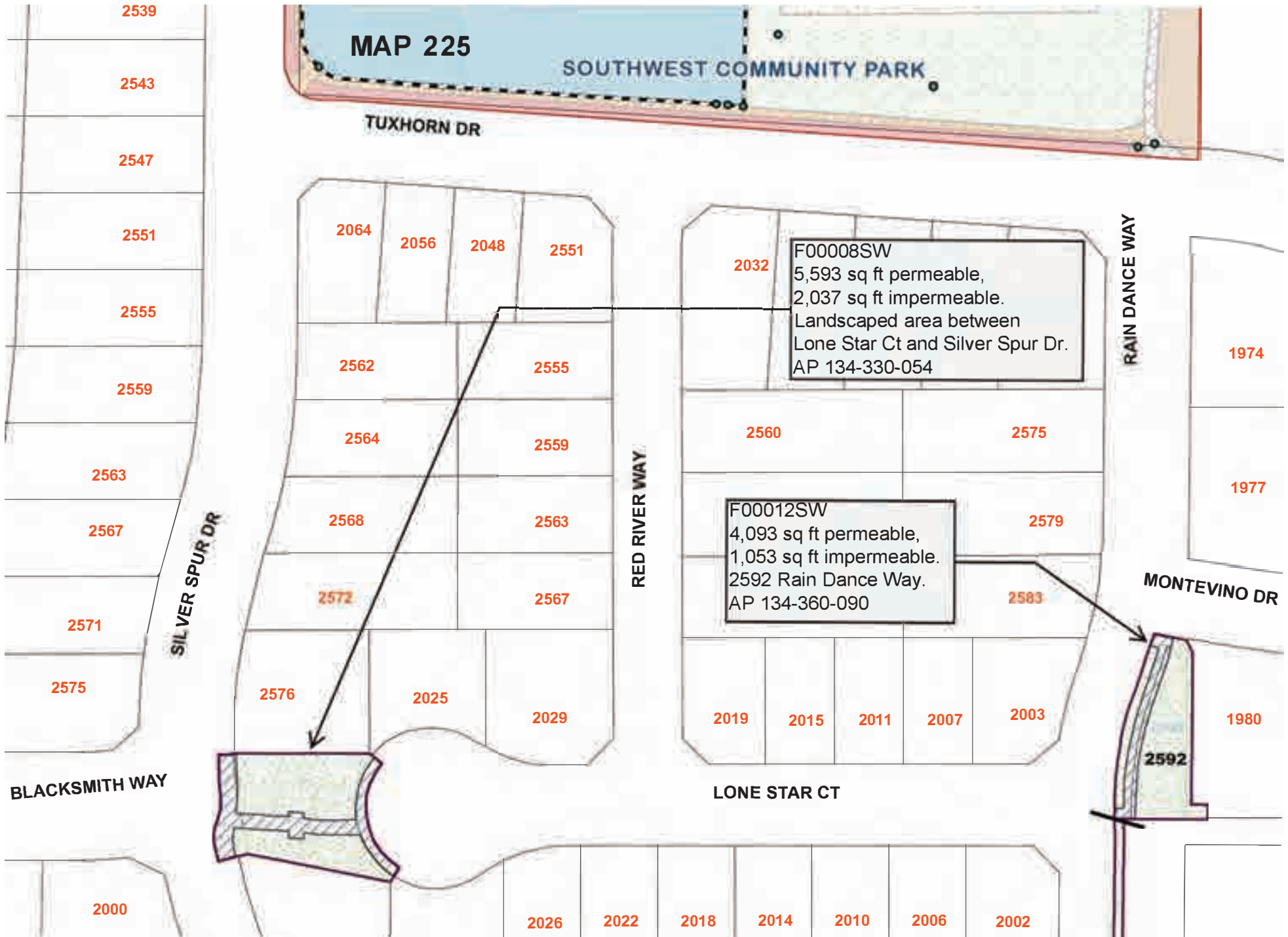
LEDDY AVE

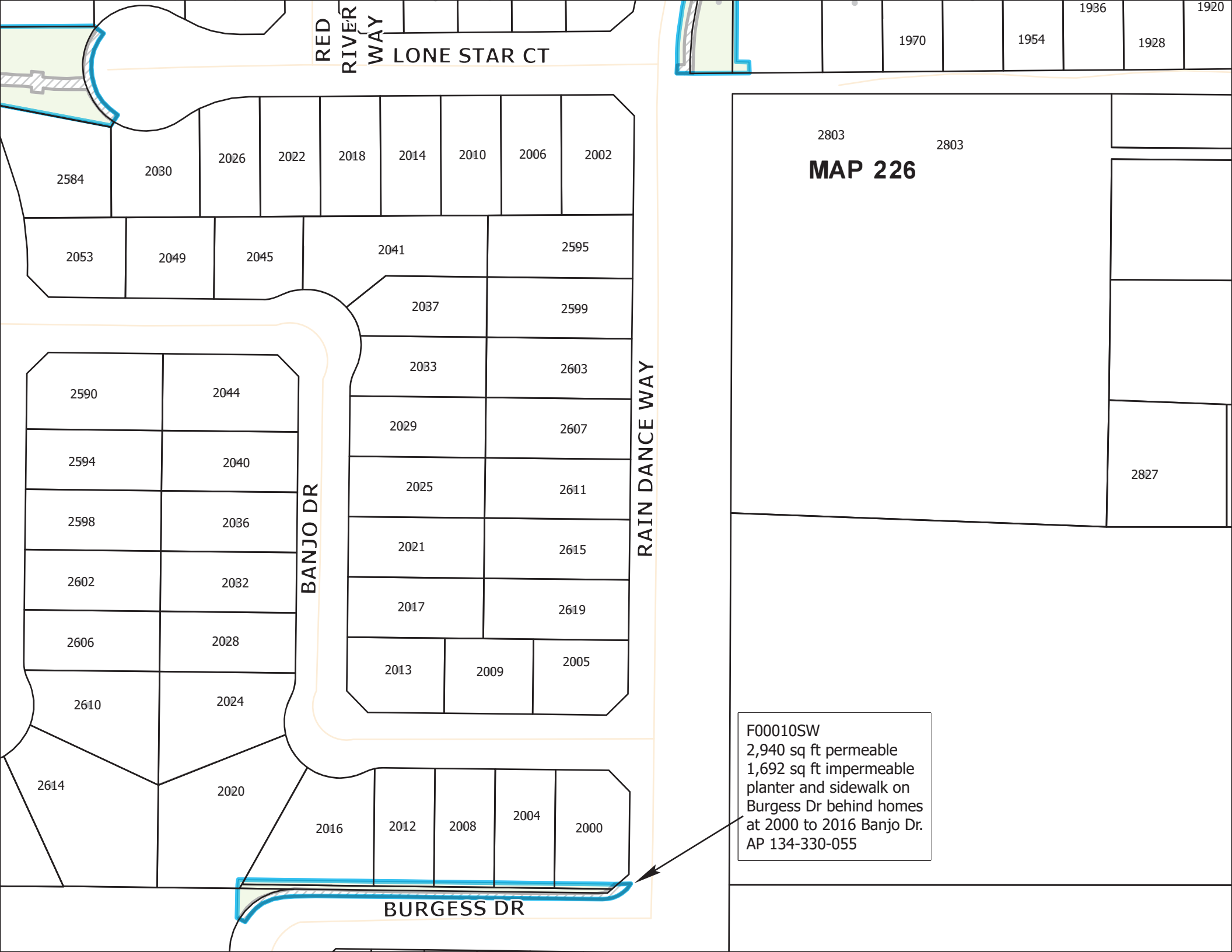
MAP 222

M00007SW
3,321 sq ft permeable,
831 sq ft impermeable.
Northpoint Pkwy @
Yeager Dr

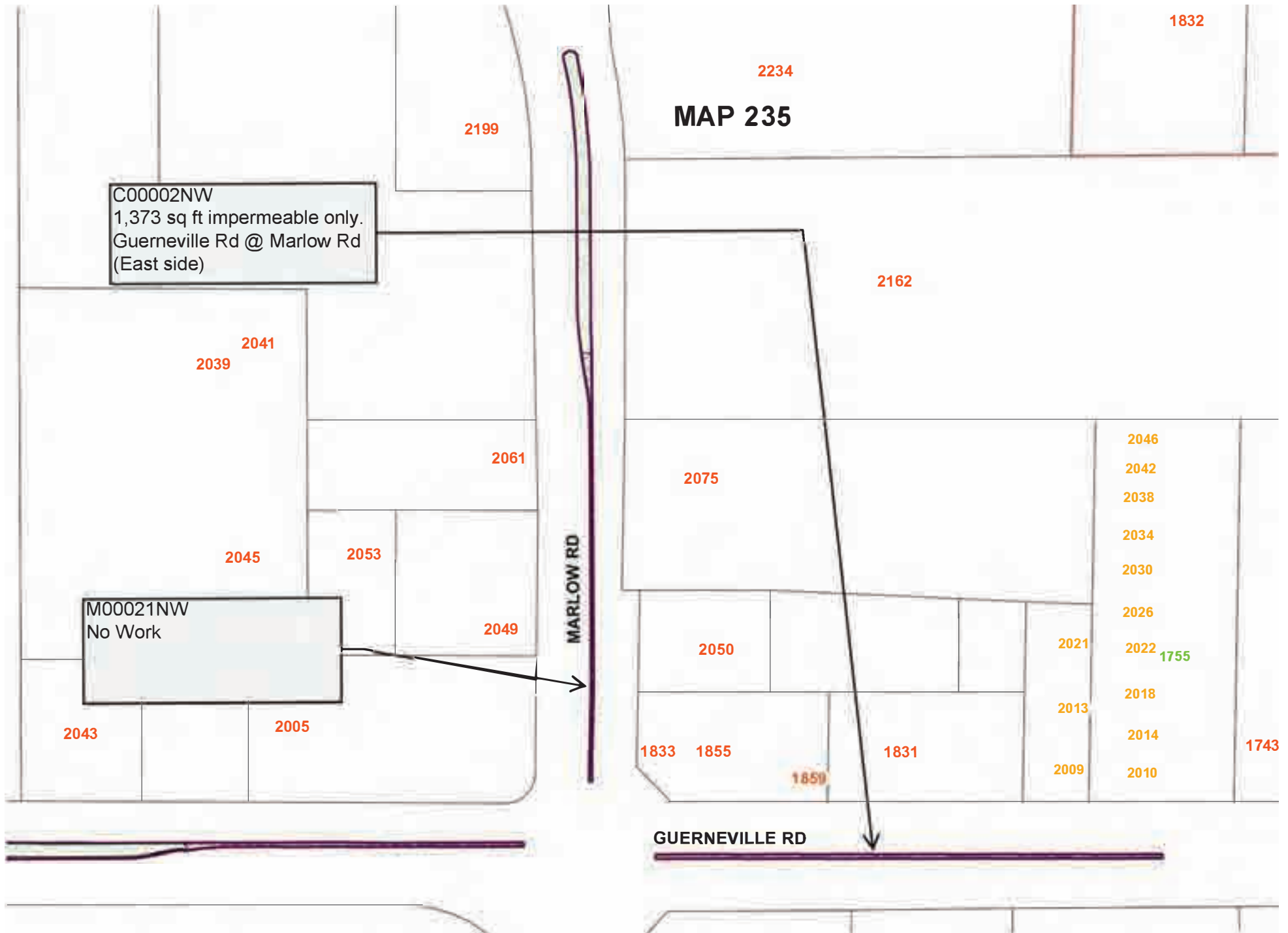
F00005SW
109,145 sq ft permeable,
20,486 sq ft impermeable.
Includes "creek trail" along
the east side of Fresno Ave
and frontage landscaping on
Northpoint Pkwy, east of
Yeager Dr.
AP 035-800-062,
AP-035-800-080,
AP 035-800-060,
AP 035-830-035











MAP 236

1840

C00003NW
1,798 sq ft impermeable only.
Guerneville Rd @ Ridley Ave
(East side)

C00004NW
1,841 sq ft impermeable only.
Guerneville Rd @ Ridley Ave
(West side)

1655

1647

1715

1711

1643

1705

1577

GUERNEVILLE RD

1676

1672

1662

1654

1664

1661

500

600

300

1659

1680

700

100

1681

1679

1659

1655

GREENEICH PL

RIDLEY AVE

GREENEICH AVE

1660

1658

1656

1654

1652

STEELE CREEK

1637

1636

1633

1632

1629

1628

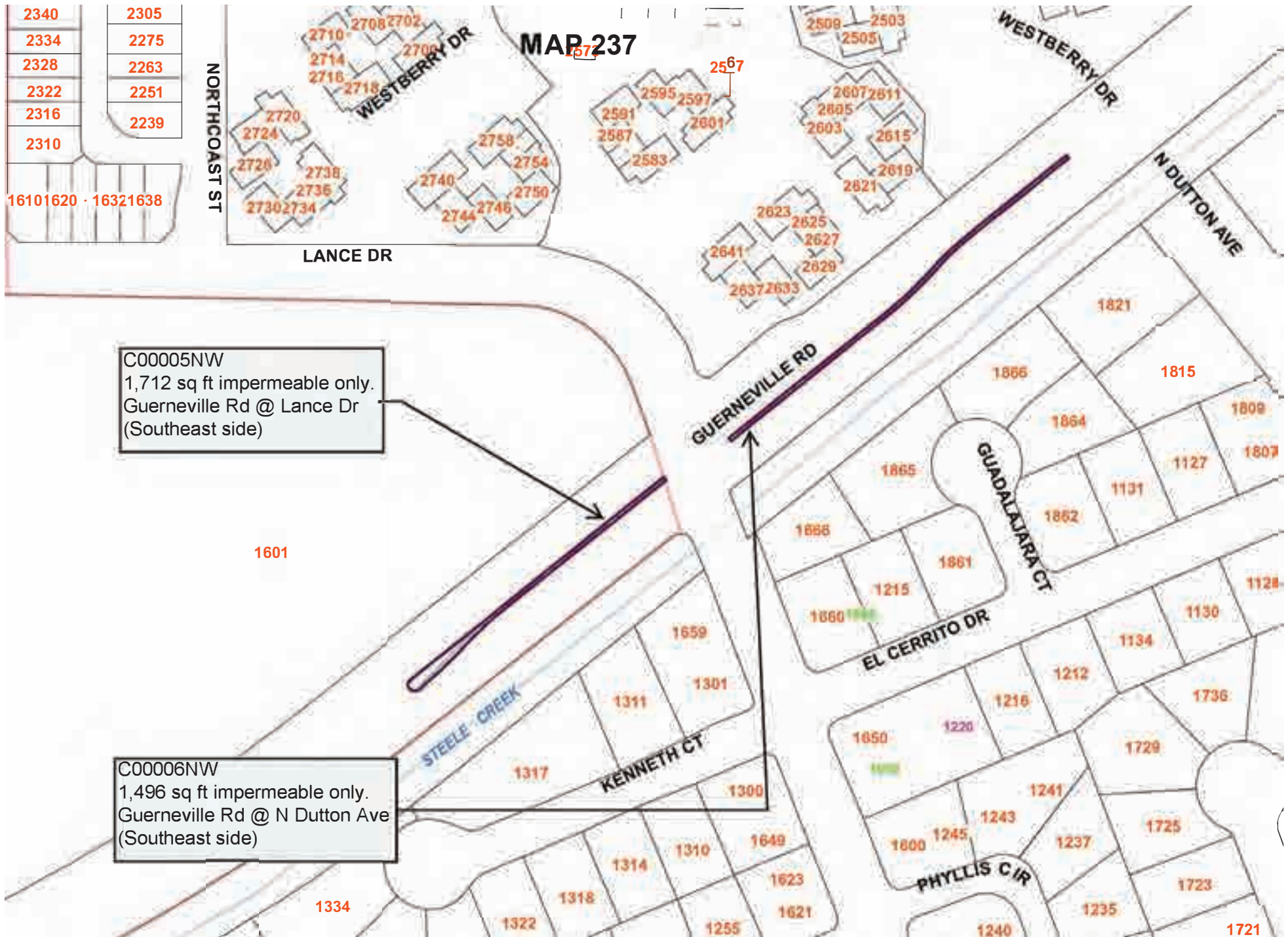
1625

1624

ELMENDORF PL

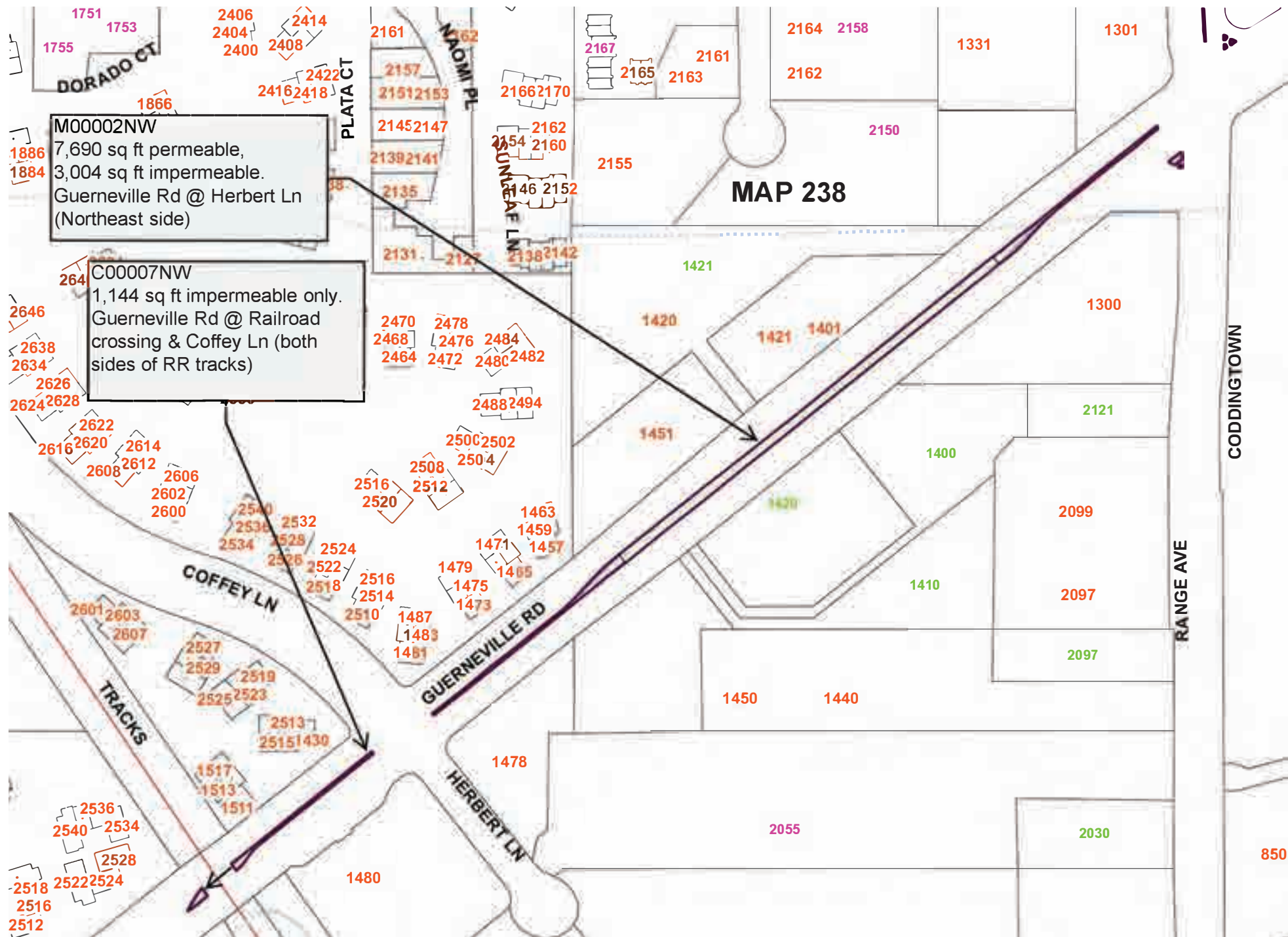
2340	2305
2334	2275
2328	2263
2322	2251
2316	2239
2310	

16101620 · 16321638



C00005NW
1,712 sq ft impermeable only.
Guerneville Rd @ Lance Dr
(Southeast side)

C00006NW
1,496 sq ft impermeable only.
Guerneville Rd @ N Dutton Ave
(Southeast side)



MAP 239

APPLE VALLEY LN

1 2820 4

1 2816 4

1 2812 4

1 2808 2800

1 2459 4

C00008NW
539 sq ft impermeable only.
Coffey Ln @ W Steele Ln
(turn lane)

2157 2159
2155 2153
2141
2151 2145
2149 2147

2133 2135
2137
2131 2129 2139
2127 2121
2125 2123

2115 2117
2113 2119
2109 2103 2101
2107 2105

2167 2183
2165
2163 2161

2053

W STEELE LN

IROQUOIS ST

I00001NW
1,649 sq ft permeable only.
Northcoast St @ W Steele Ln

2490 2382 2378 2328

2260

2100 2090 2080

2716

2714

2710

2411

2409

2348

2691

2693

2723 2721

2713 2711

2703 2701

TAN OAK CT

NORTHCOST ST

TRACKS

39A
39B
39C

40A
40B
40C

41A 41B 41C 41D

2A 2B 2C 2D

1B
1C
1D
1A

3A 3B 3C 3D 3E 3F 3G

W STEELE LN

MAP 240

I00017NW
4,007 sq ft permeable only.
Steele Way @ Guerneville Rd

C00009NW
241 sq ft impermeable only.
Steele Way @ W Steele Ln
(turn lane)

C00010NW
210 sq ft impermeable only.
Guerneville Rd @ Range Ave
(2 pedestrian islands)

C00011NW
425 sq ft impermeable only.
Range Ave @ West Steele Ln

1311

1220

1214

1202

1201

R

Q

M

1331
J

1301

A

109

2 09

GUERNEVILLE RD

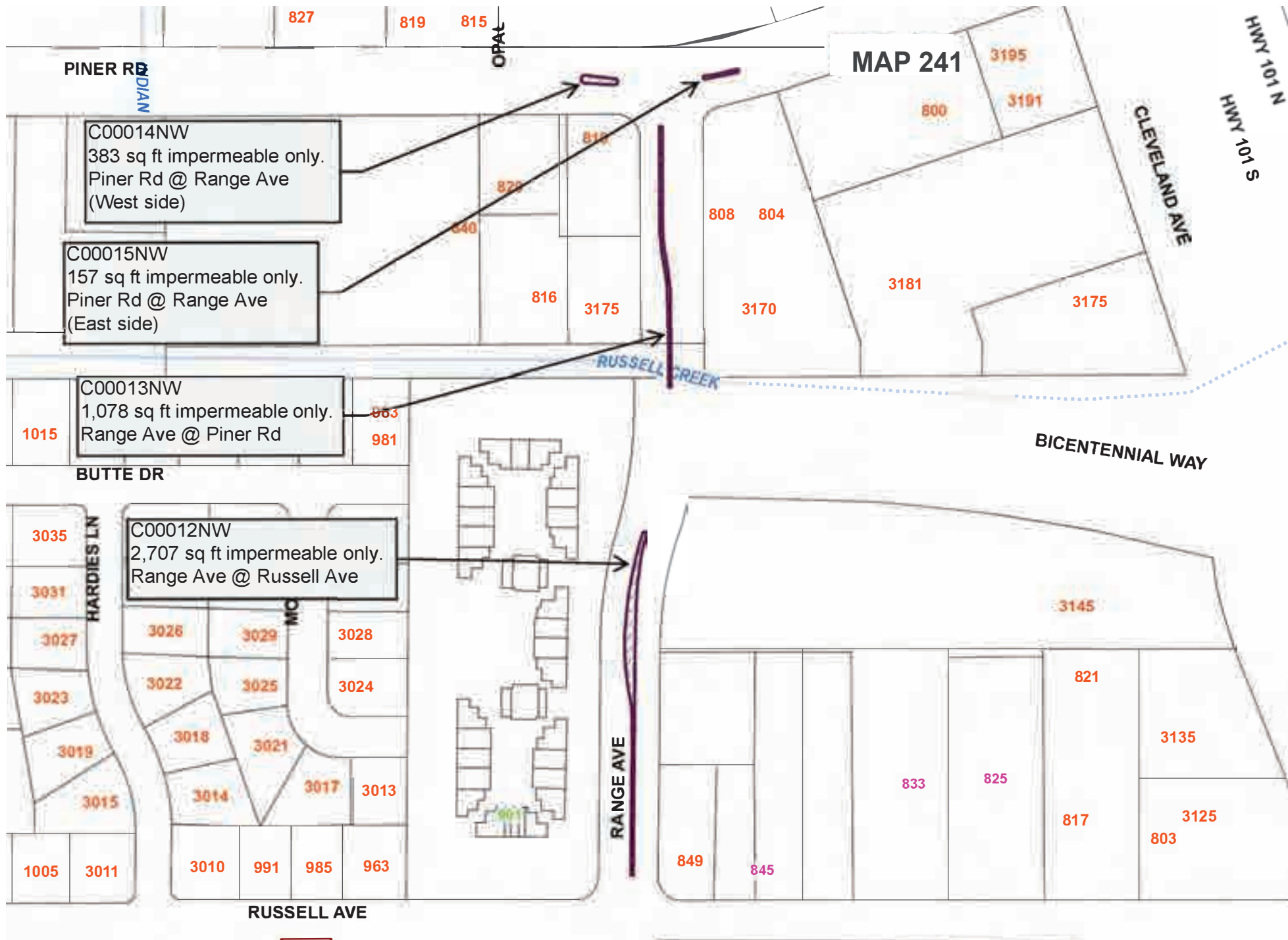
LIBRARY

CODDINGTOWN

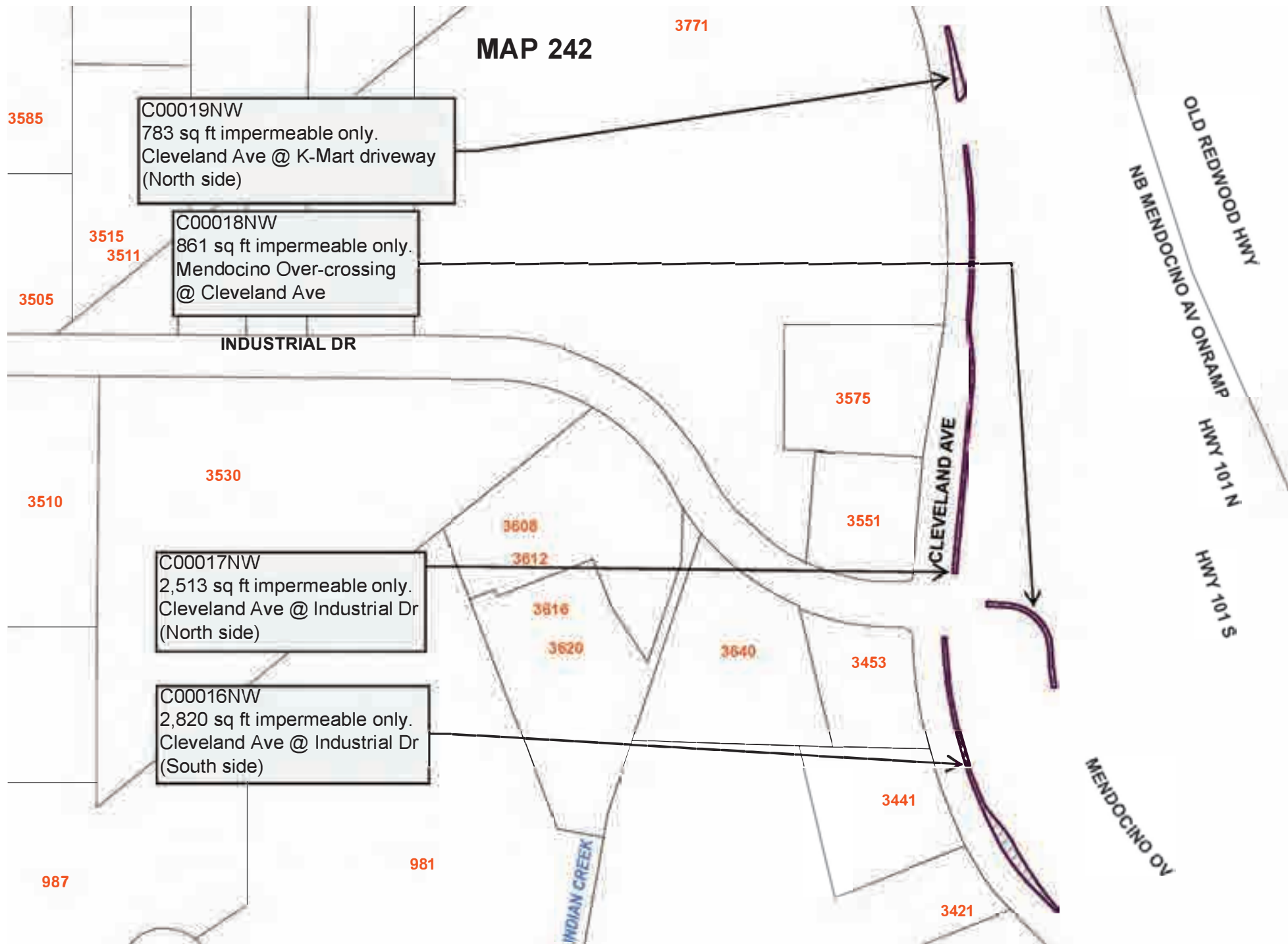
RANGE AVE

STEELE WAY

3
4
7
8
17
8
9
18
2 0



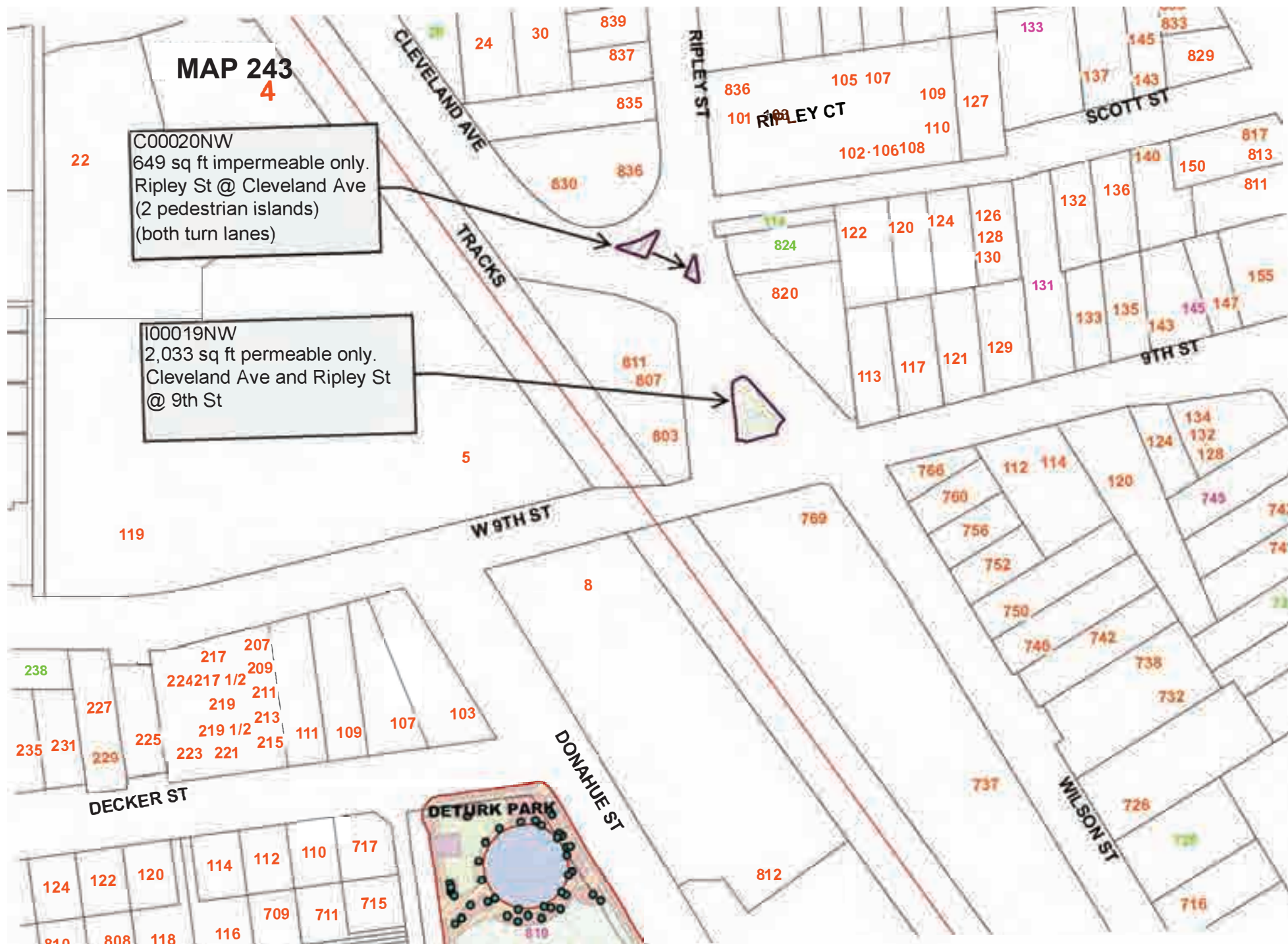
MAP 242



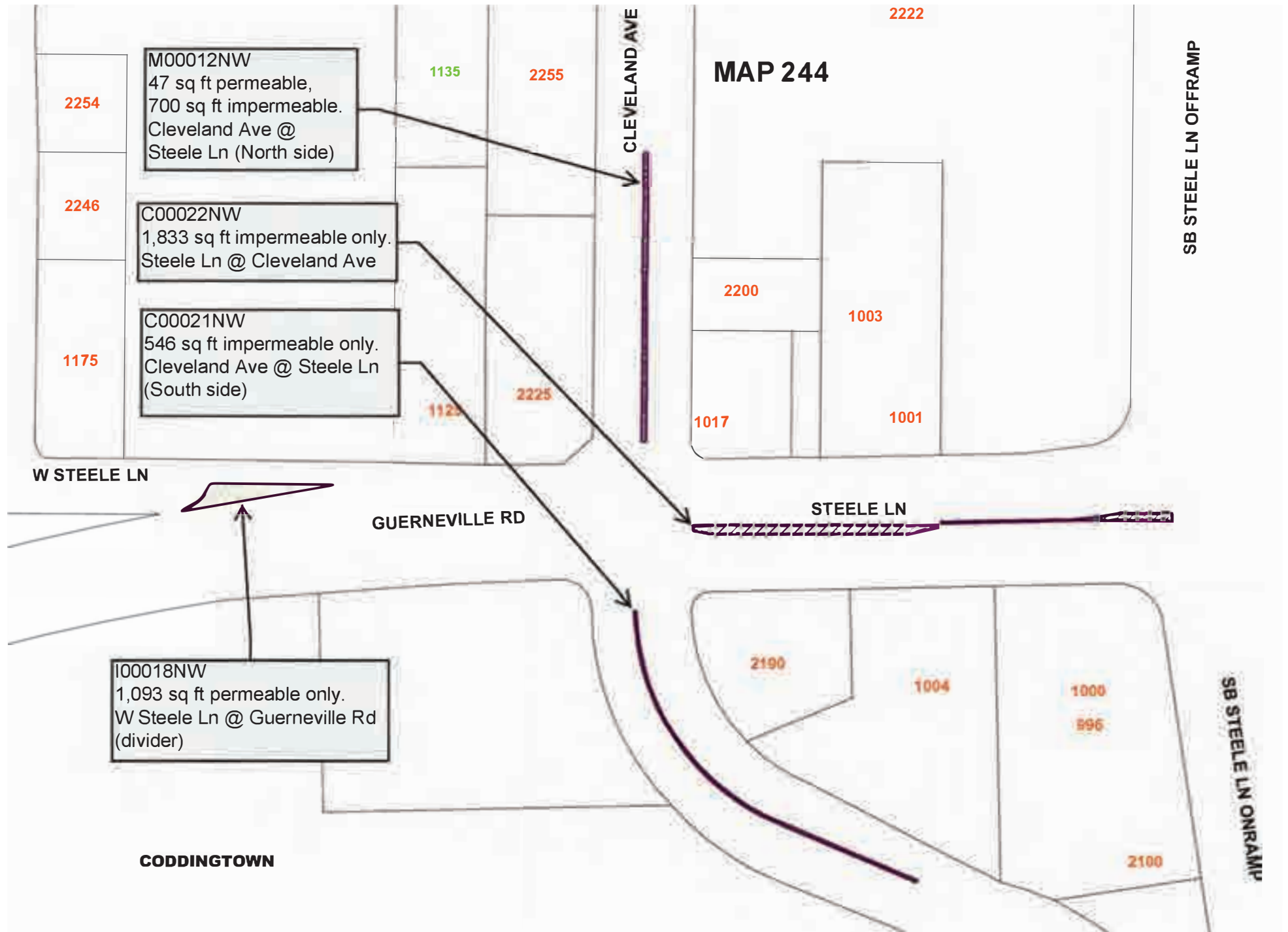
4

649 sq ft impermeable only.
Ripley St @ Cleveland Ave
(2 pedestrian islands)
(both turn lanes)

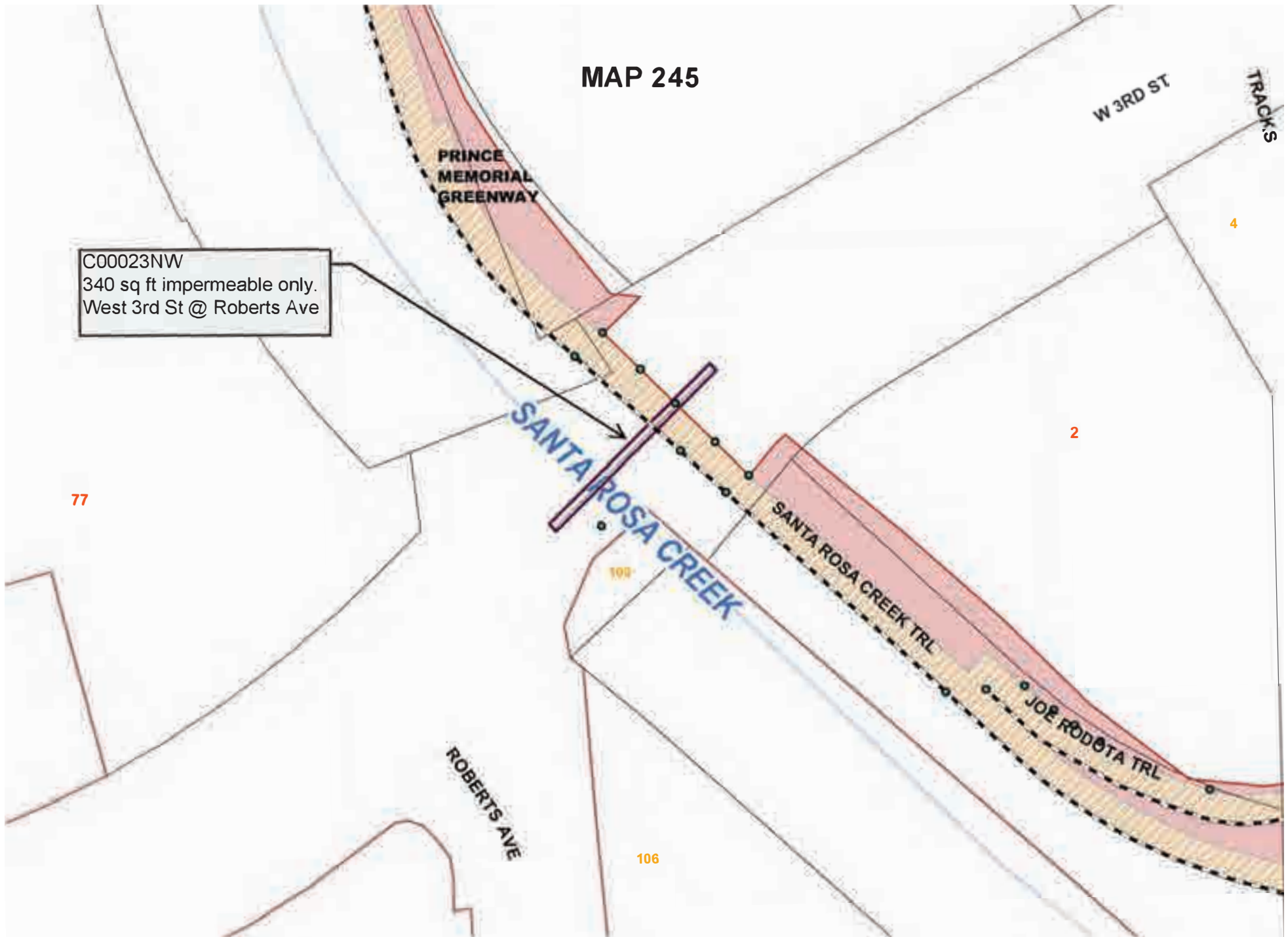
2,033 sq ft permeable only.
Cleveland Ave and Ripley St
@ 9th St



MAP 244



MAP 245



C00023NW
340 sq ft impermeable only.
West 3rd St @ Roberts Ave

77

2

4

100

106

ROBERTS AVE

W 3RD ST

TRACKS

PRINCE
MEMORIAL
GREENWAY

SANTA ROSA CREEK

SANTA ROSA CREEK TRL

JOE RODOTA TRL

PINER CREEK

MAP 246

SEQUOIA CIR

C00025NW
699 sq ft impermeable only.
Fulton Rd @ Chatham Dr
(North side)

M00017NW
7,153 sq ft permeable,
1,917 sq ft impermeable.
Fulton Rd @ Chatham Dr
(South side)

FULTON RD

CHATHAM DR

COPPERFIELD DR

BARKIS CT

GADS HILL ST

SANTA ROSA CREEK TRL

SADDLEBACK CT

SANTA ROSA CREEK TRL
SANTA ROSA CREEK

COUNTRYSIDE CIR

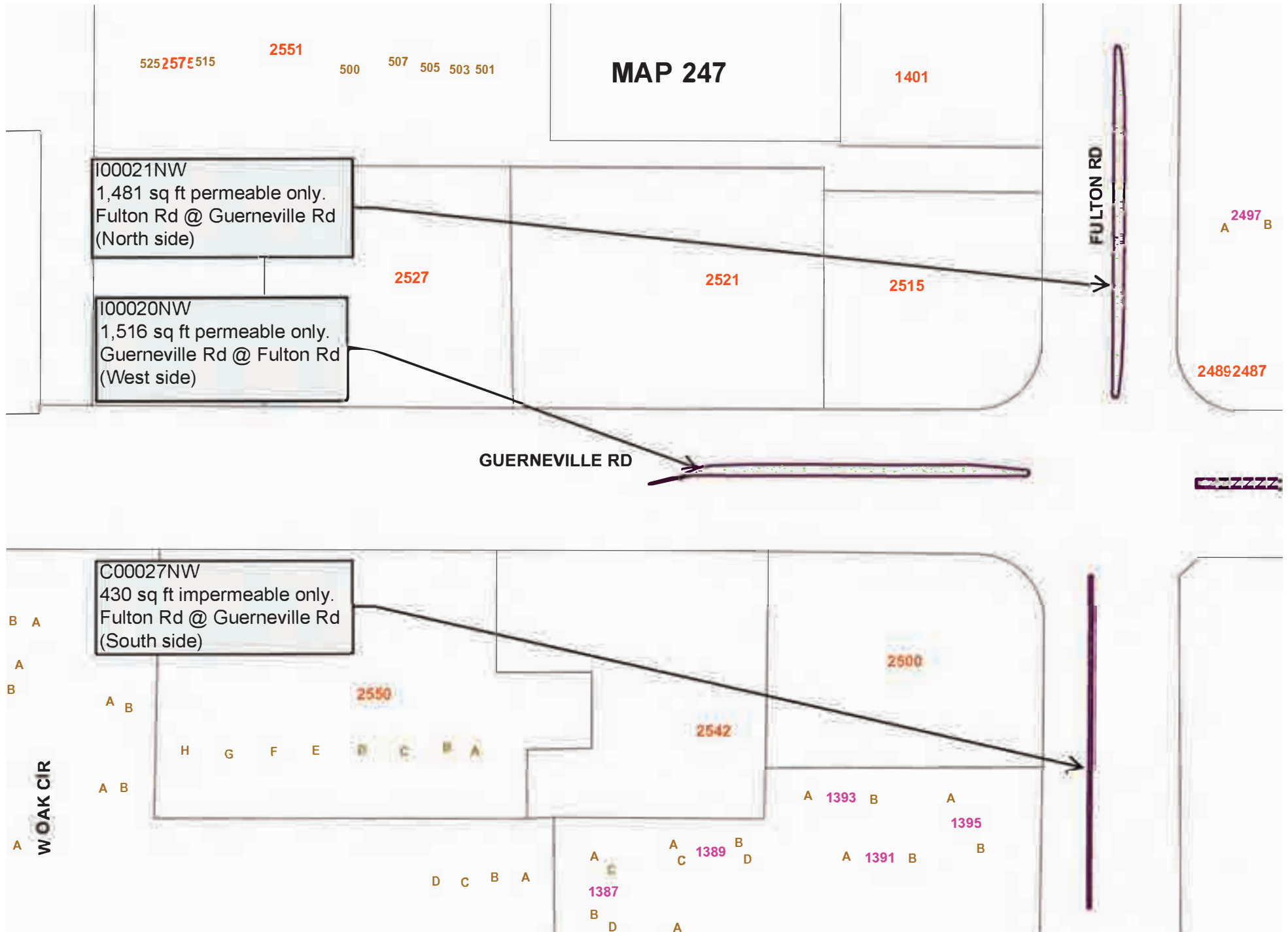
HALTER CT

PLACER CT

PLACER DR

W COLLEGE AVE

A PLACE TO PLAY



MAP 248

INNSBROOK CT

FENWICK DR

BANCROFT DR

I00015NW
3,873 Sqft. Permeable only
W 3rd St. @ Brockhurst
(West Side)

BROCKHURST DR

I00016NW
2,038 Sqft. Permeable only
W 3rd St. and Stony Point Rd

STONY POINT RD

W 3RD ST

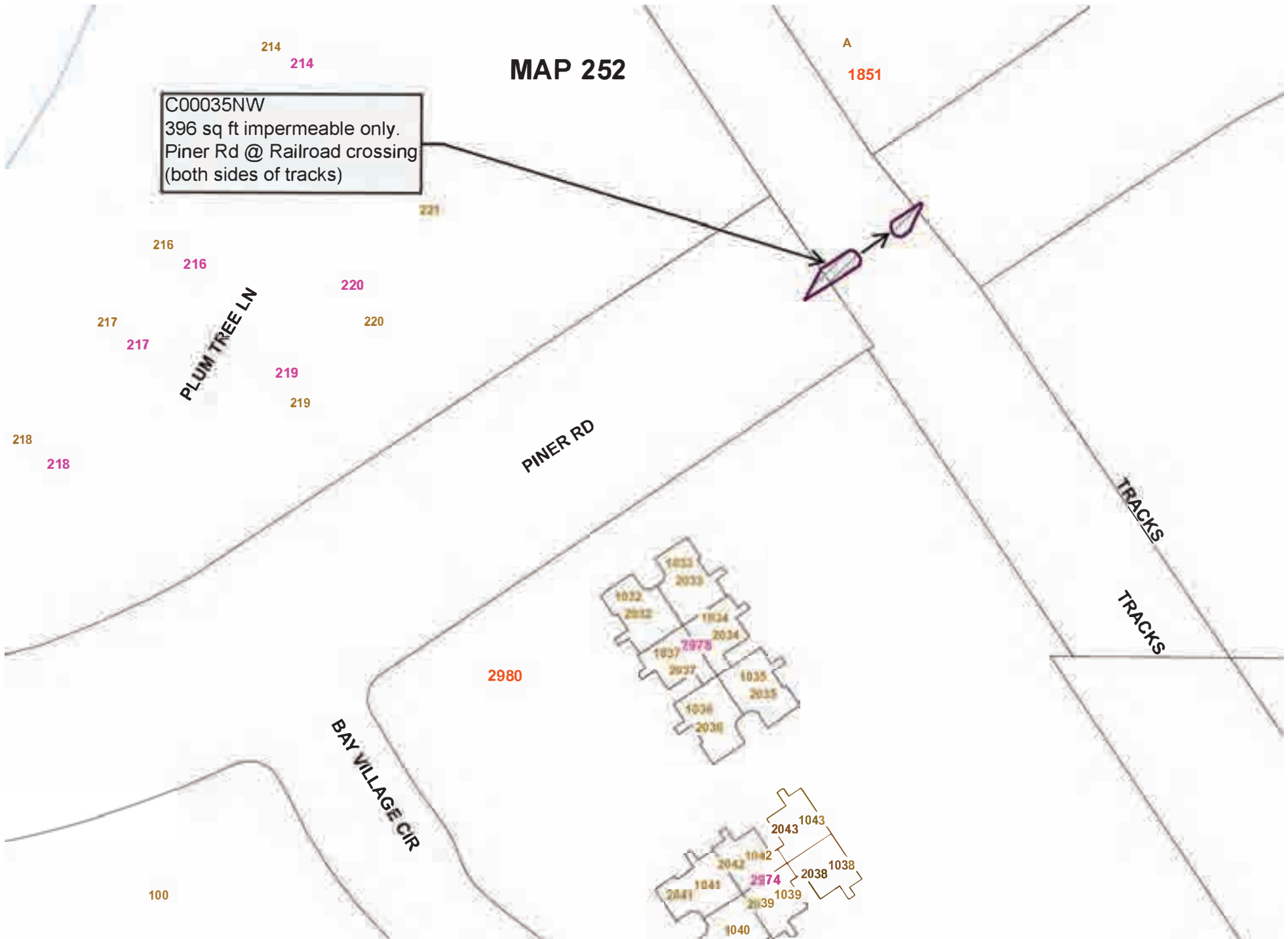
WALL PL

GATEWAY

OLDFIELD WAY

MAP 252

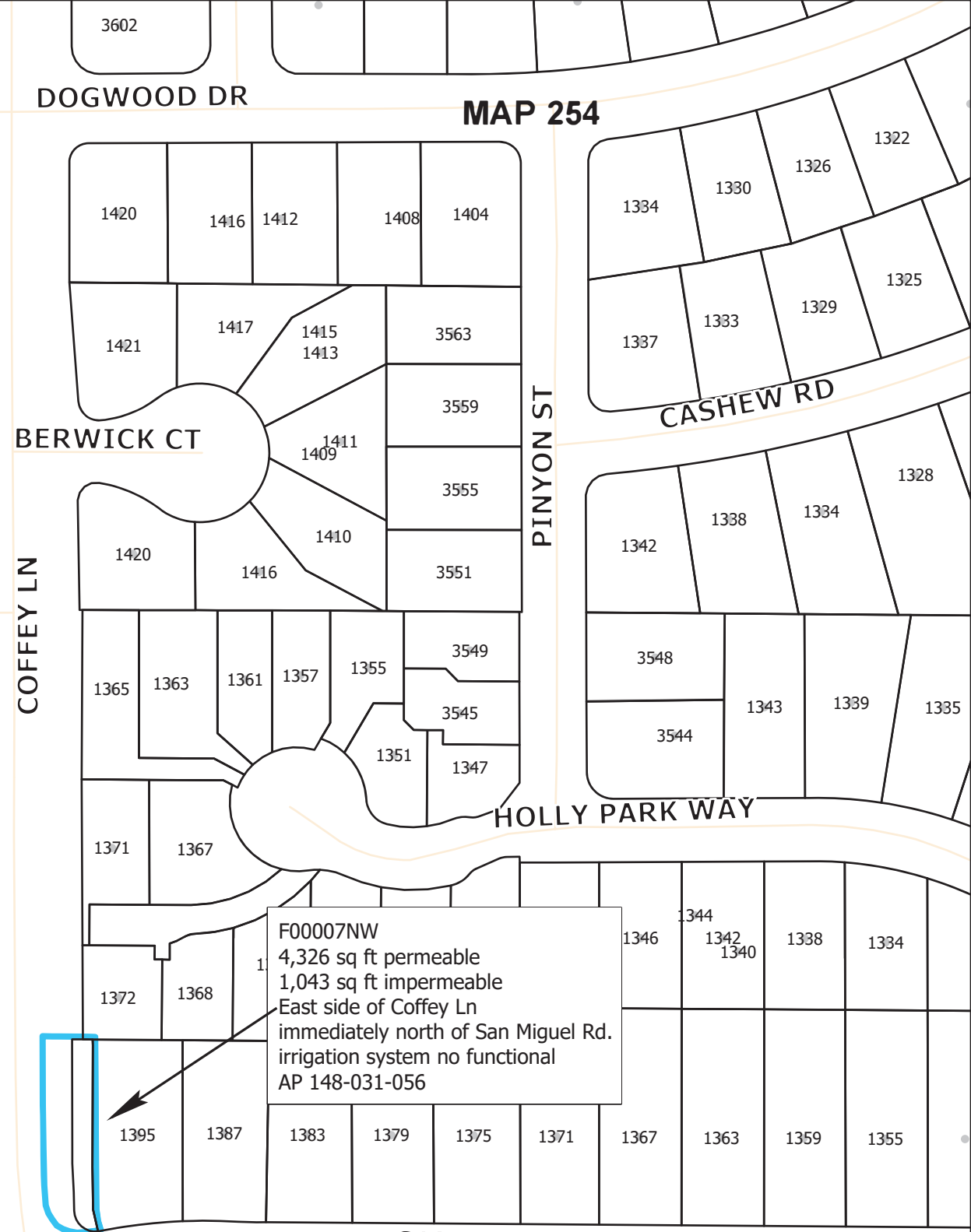
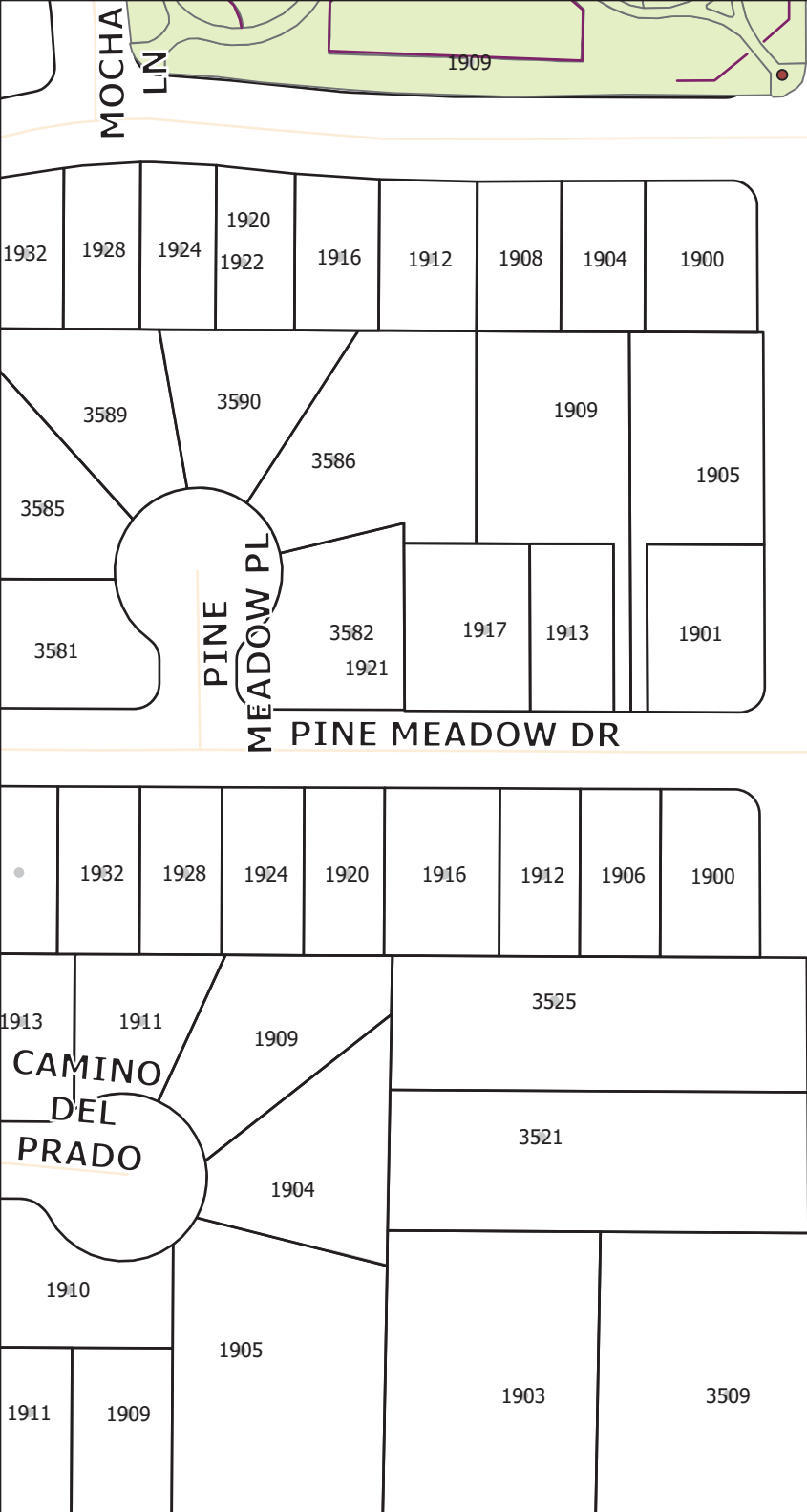
C00035NW
396 sq ft impermeable only.
Piner Rd @ Railroad crossing
(both sides of tracks)

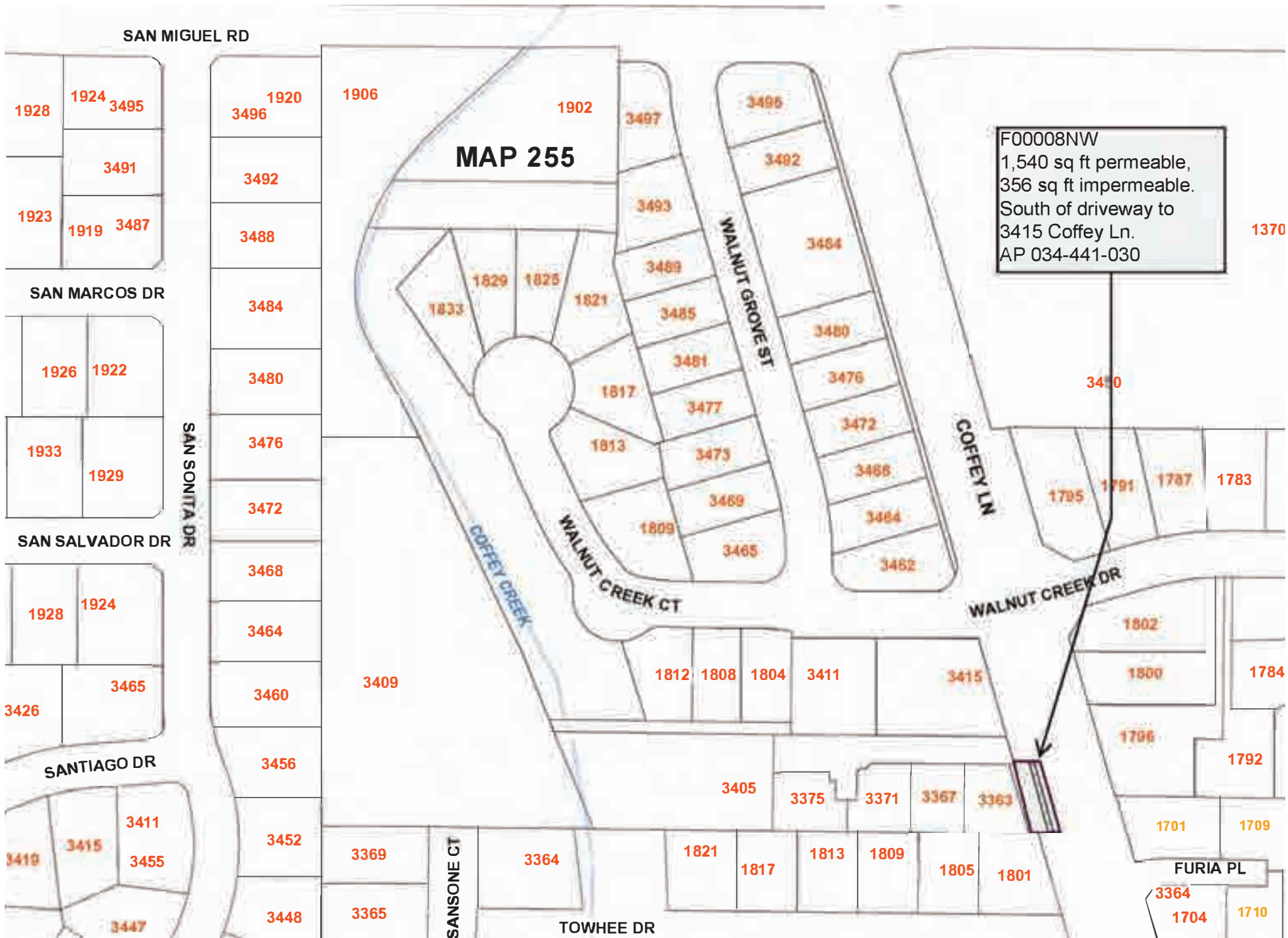




MAP 253

F00002NW
8,777 sq ft permeable
8,167 sq ft impermeable
East side of Barnes Rd, both sides
of Hopper Ave, wraps onto Hopper
Irrigation system no functional
AP 034-431-054,
AP 034-432-028





MAP 257

WATERFORD ST

SEVILLE ST

F00011NW
9,967 Sqft. Permeable
6,787 Sqft. Impermeable
North Side of Piner Rd.
west of Waltzer Rd.
AP 034-427-050

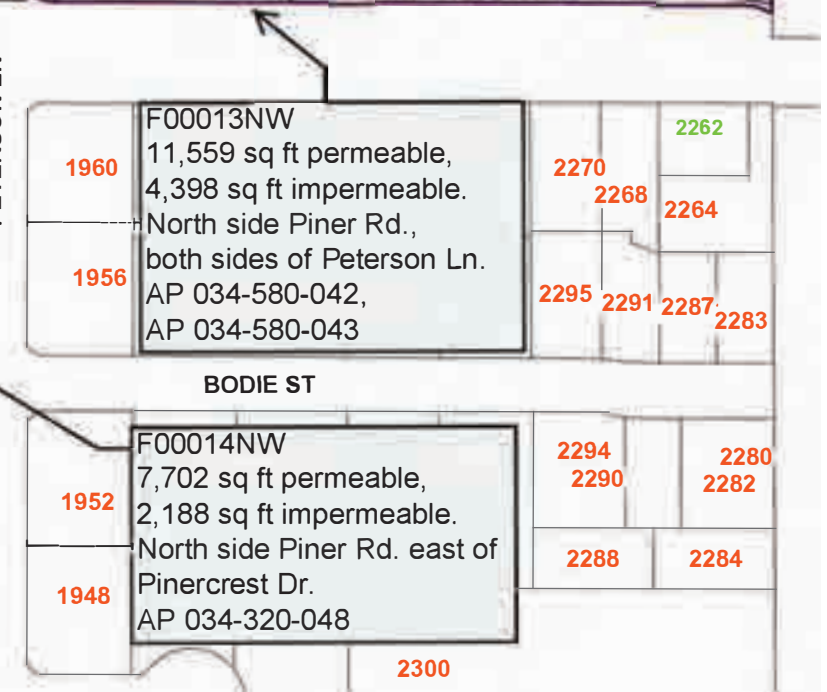
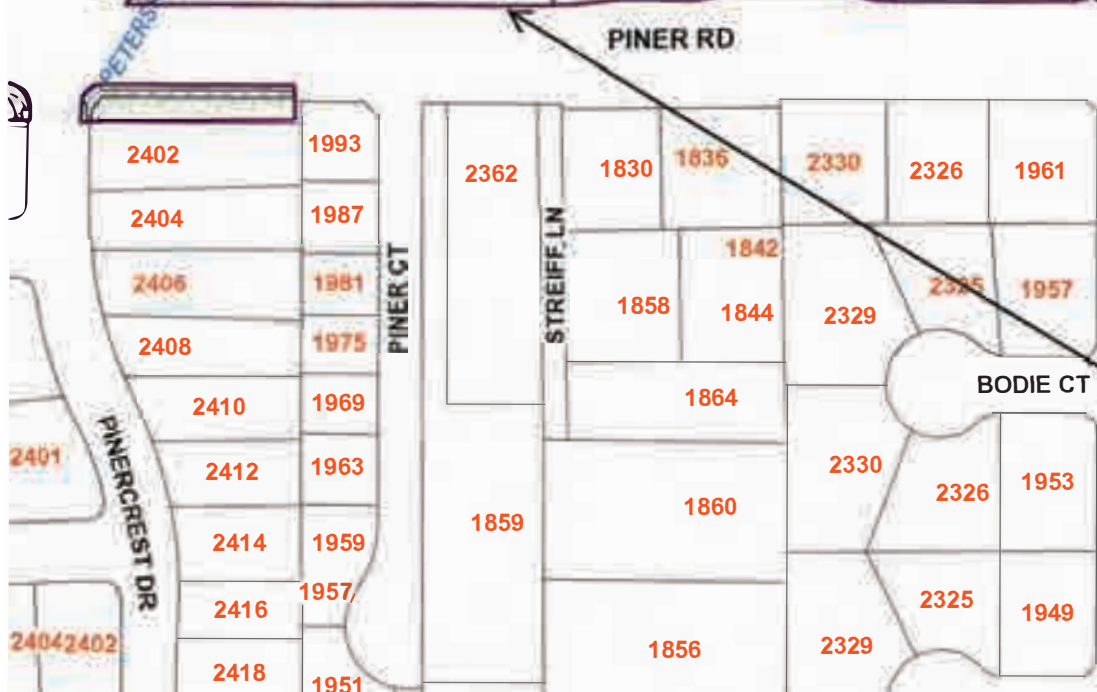
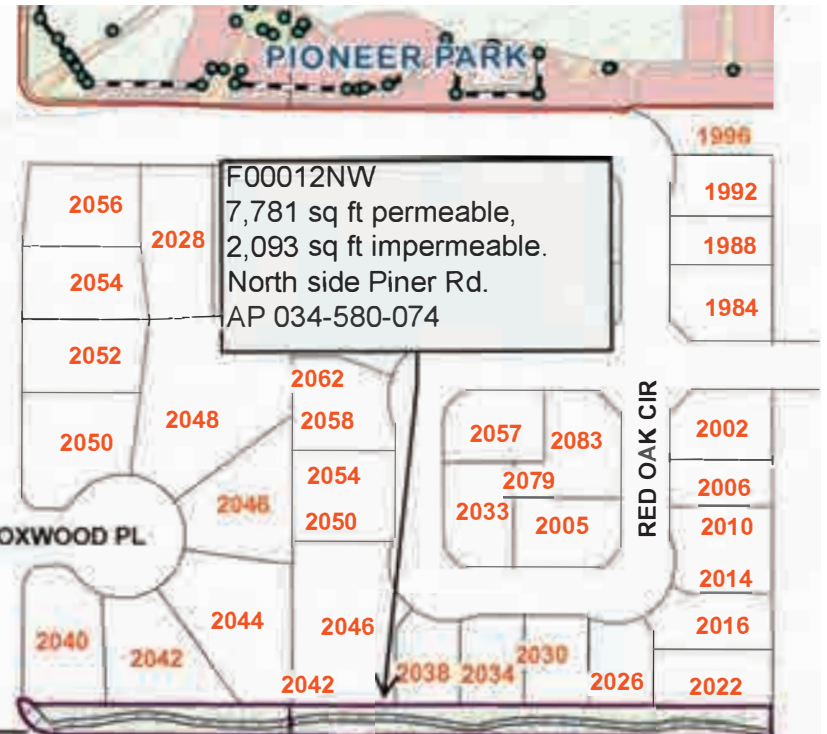
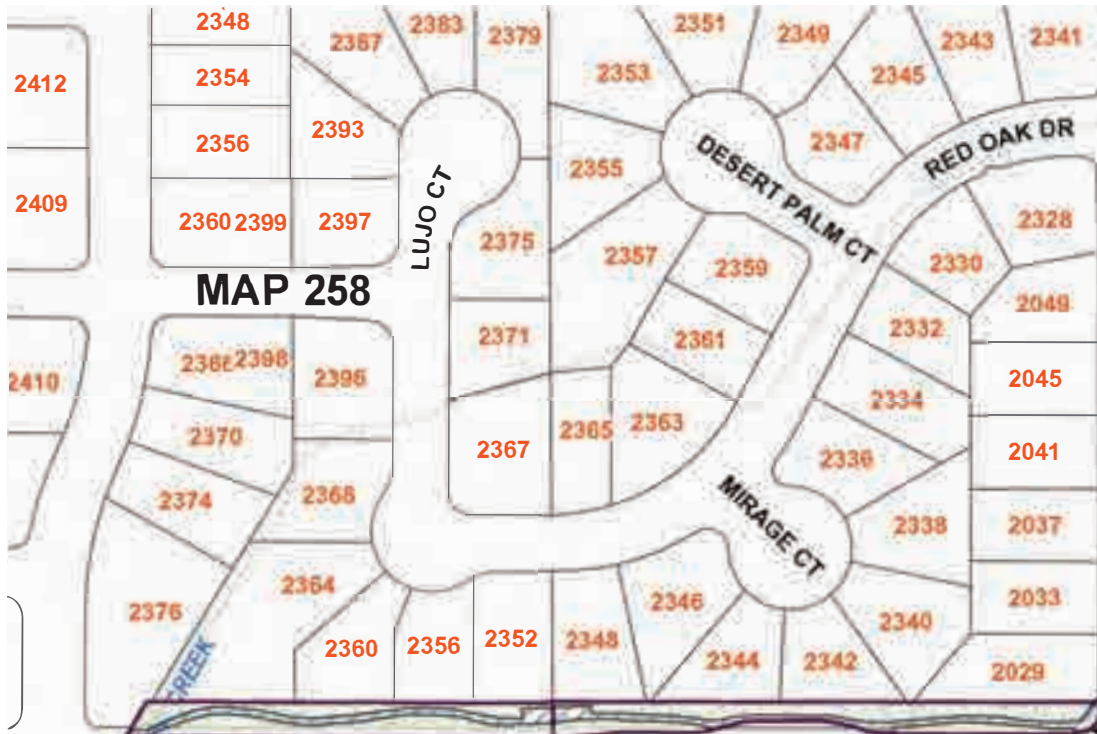
WALTZER RD

PINER RD

GENERO LN

KIRK HILL ST

F00010NW
6,042 Sqft. Permeable
2,557 Sqft Impermeable
South Side of Piner Rd.
both sides of Kirkhill St.
AP 036-800-024
AP 036-800-027



MAP 259

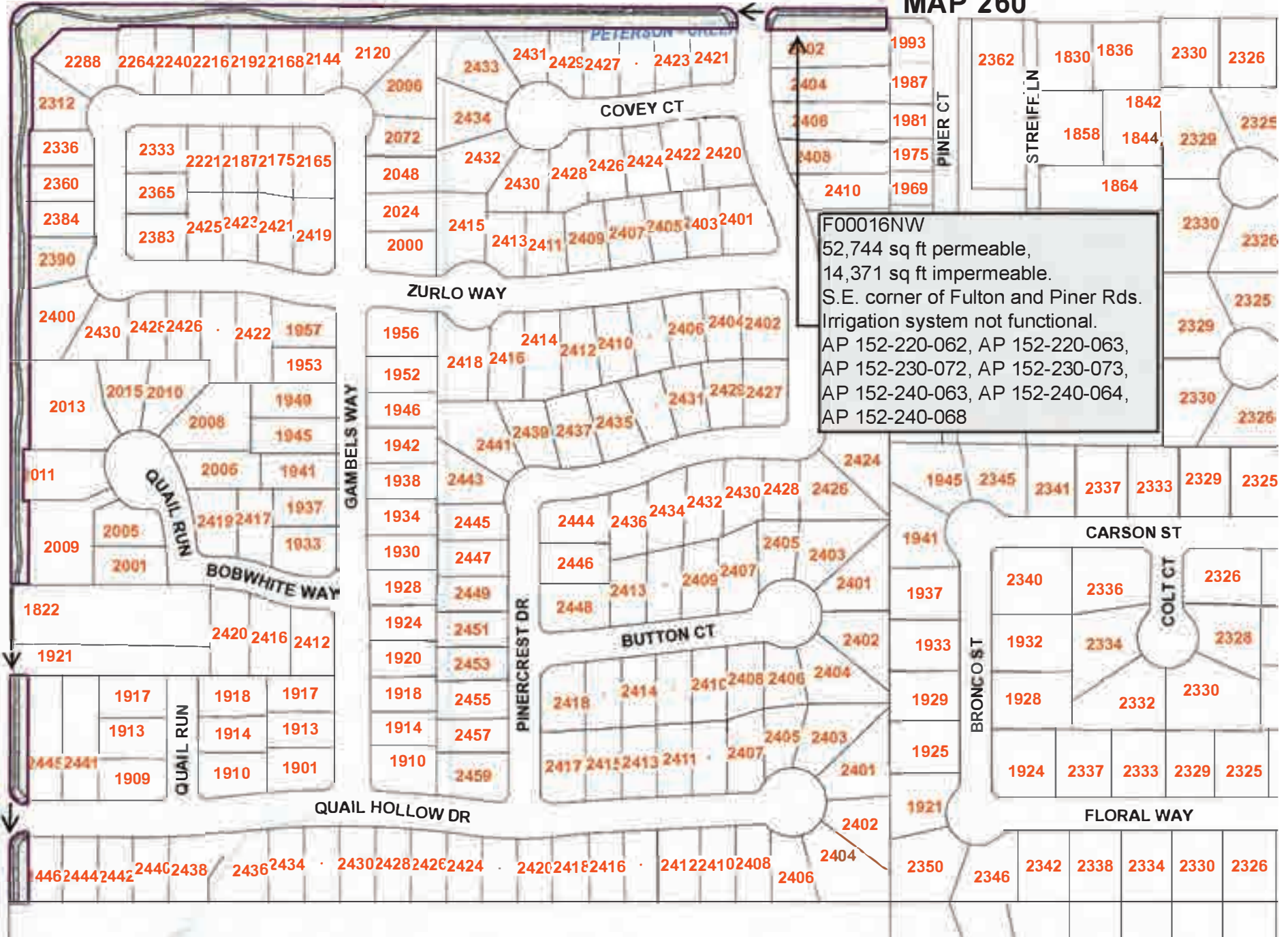


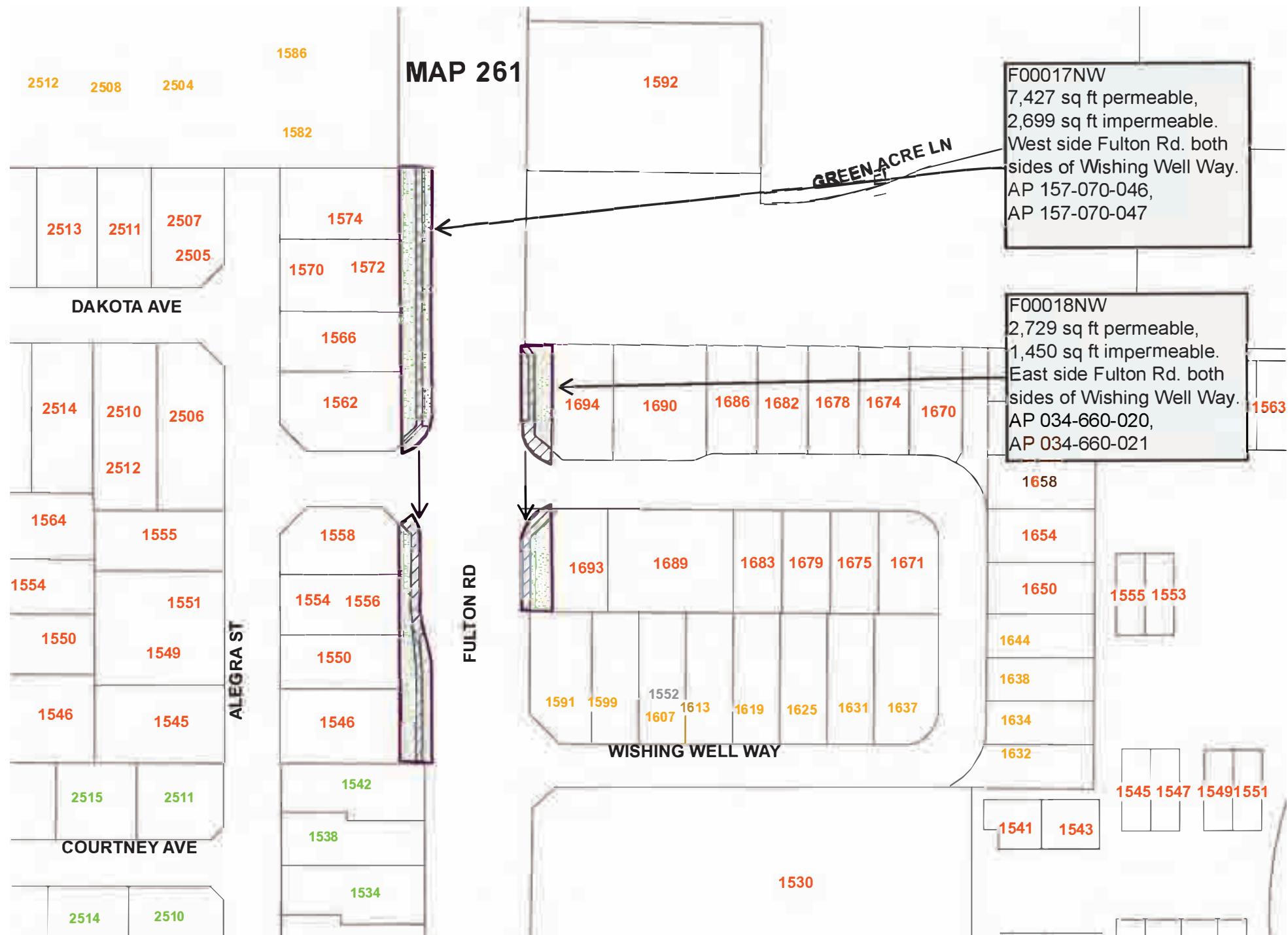
MAP 260

PINER RD

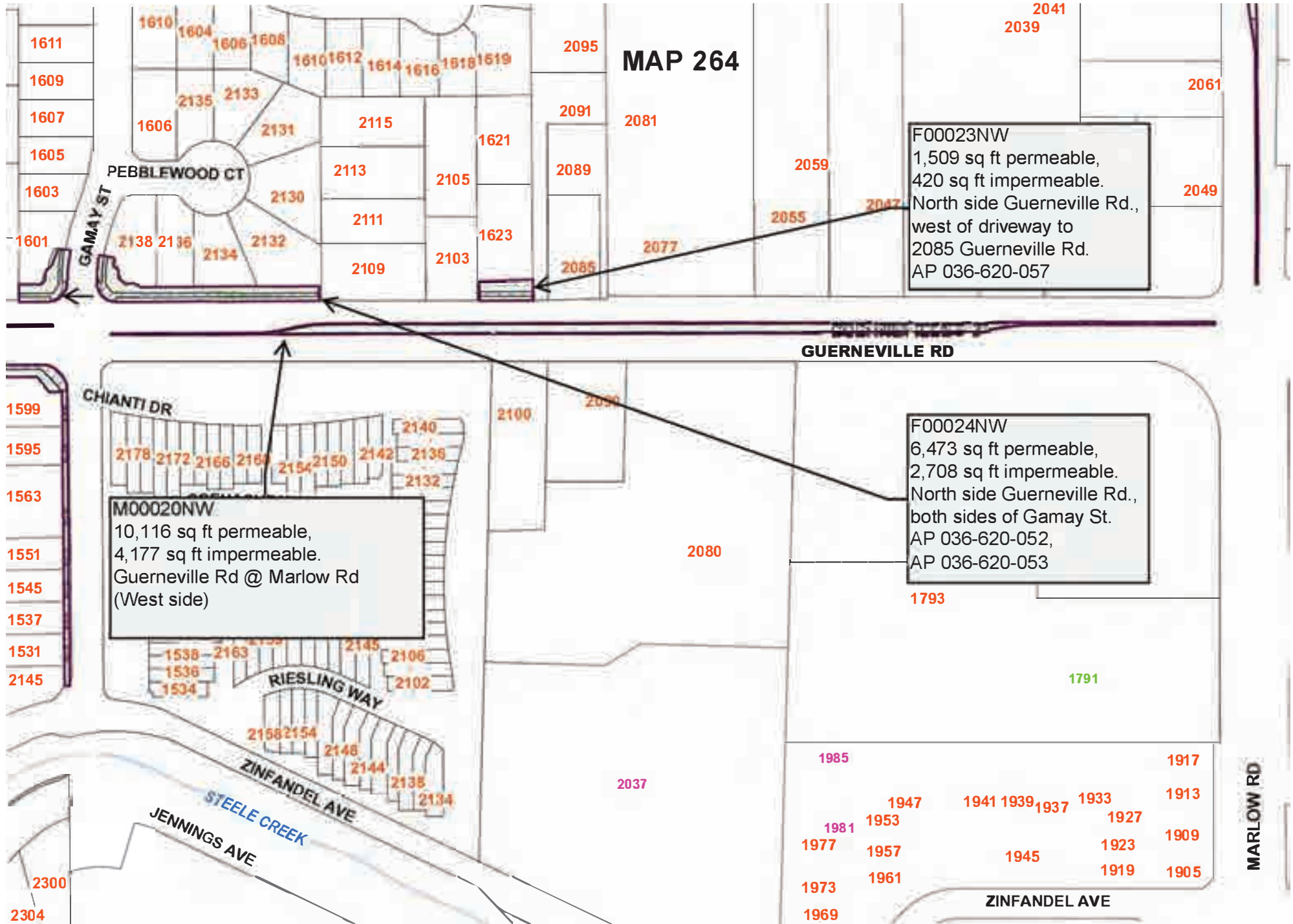
F00016NW
52,744 sq ft permeable,
14,371 sq ft impermeable.
S.E. corner of Fulton and Piner Rds.
Irrigation system not functional.
AP 152-220-062, AP 152-220-063,
AP 152-230-072, AP 152-230-073,
AP 152-240-063, AP 152-240-064,
AP 152-240-068

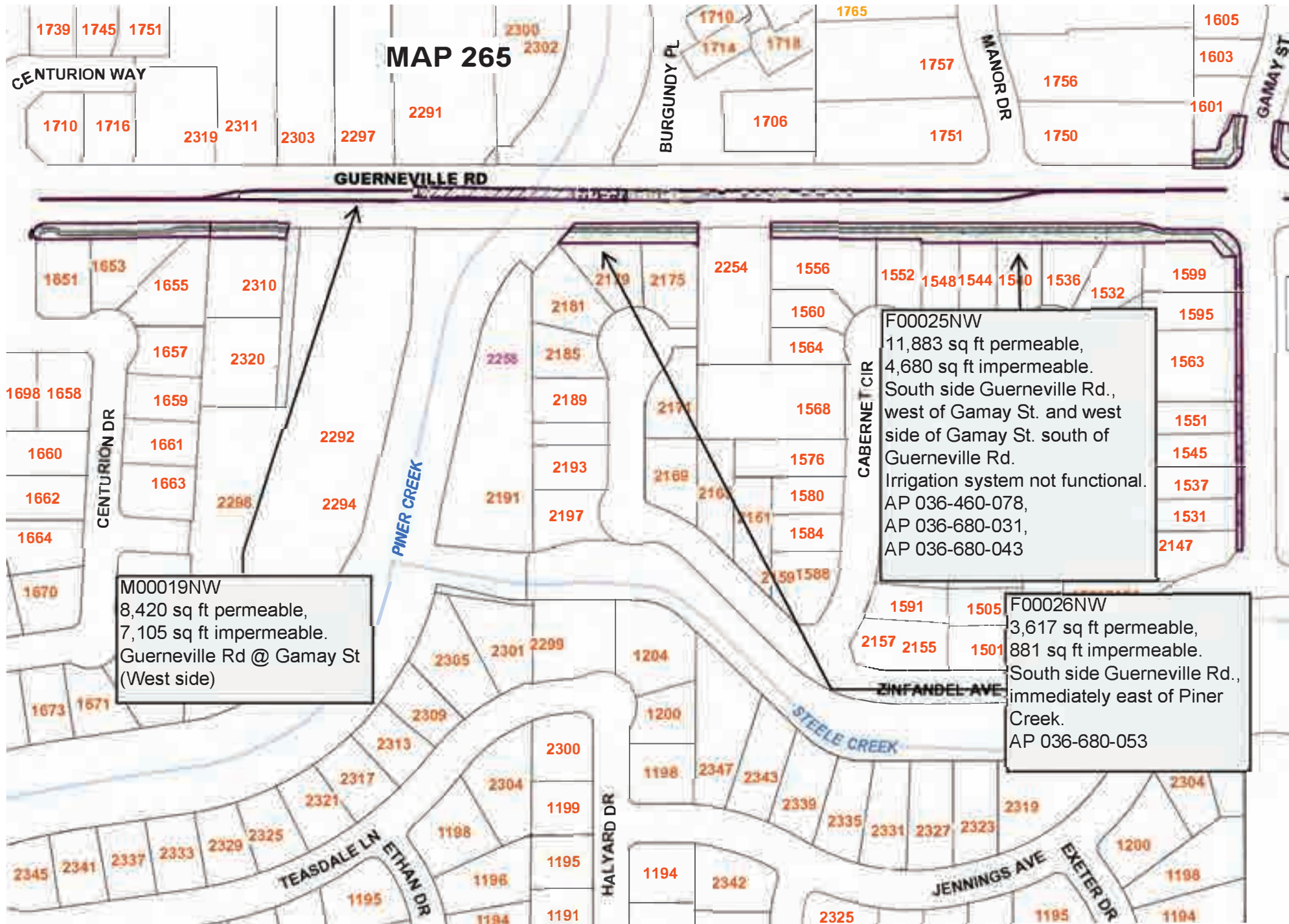
FULTON RD





MAP 264





MAP 266

COVENT GARDEN

F00027NW

1,467 sq ft permeable,
684 sq ft impermeable.
North side Guerneville Rd.,
immediately east of Covent
Garden.
Irrigation system not functional.
AP 157-060-007

GUERNEVILLE RD

M00018NW

7,534 sq ft permeable,
4,132 sq ft impermeable.
Guerneville Rd @ Fulton Rd
(East side)

FULTON RD

PINEBROOK PL

PRAIRIE LN

VELMA AVE

PETERSON LN

WESTPOINT PL

MAP 267

FAIRBANKS DR

PETERSON LN

CT

CENTURION WAY

CENTURION DR

SAGE BRUSH LN

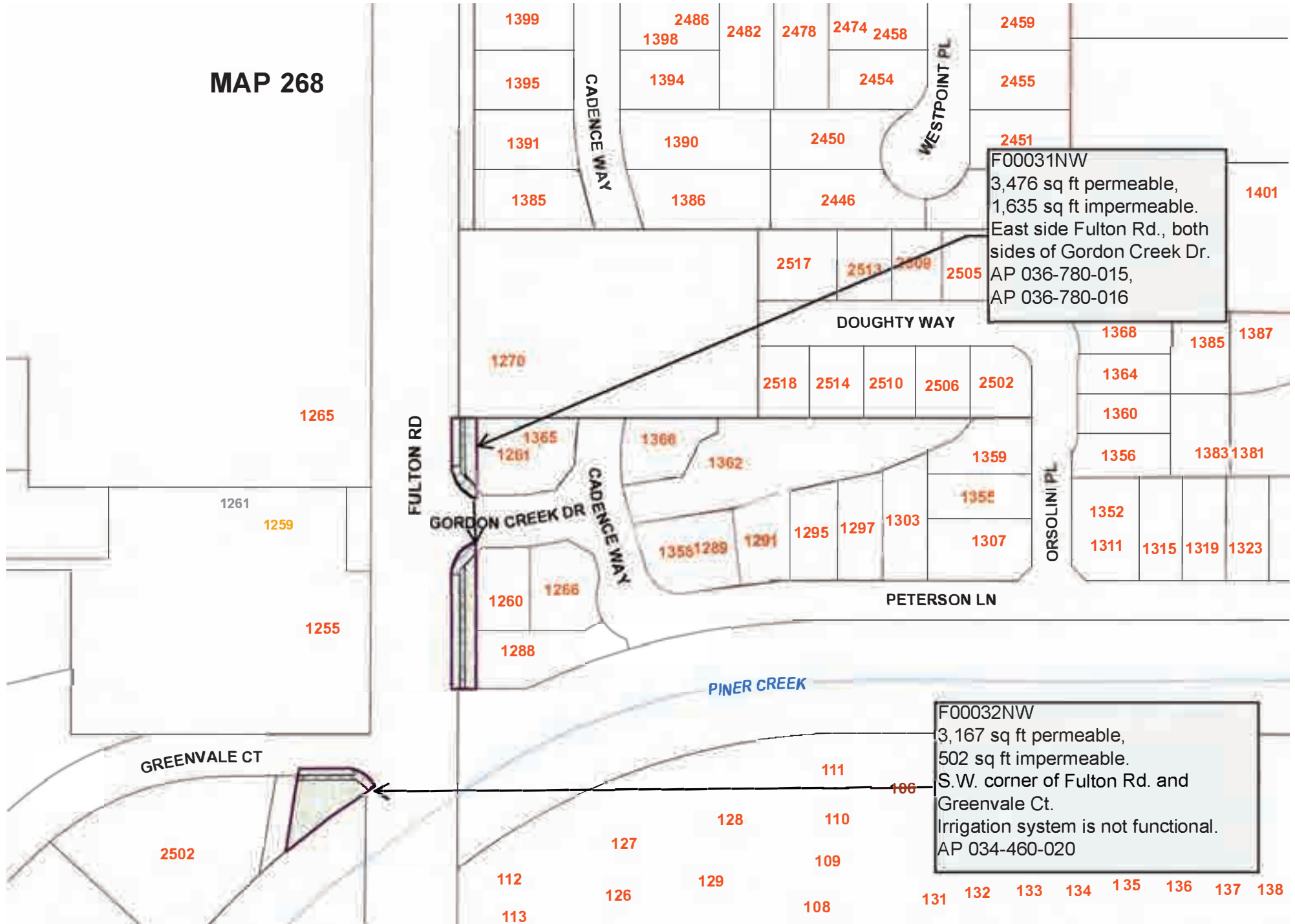
M00028NW
617 sq ft permeable,
952 sq ft impermeable.
Guerneville Rd @ Peterson Ln
(East side)

F00028NW
4,868 sq ft permeable,
2,720 sq ft impermeable.
South side Guerneville Rd.,
both sides of Peterson Ln.
Irrigation system not functional.
AP 036-730-015,
AP 036-730-016

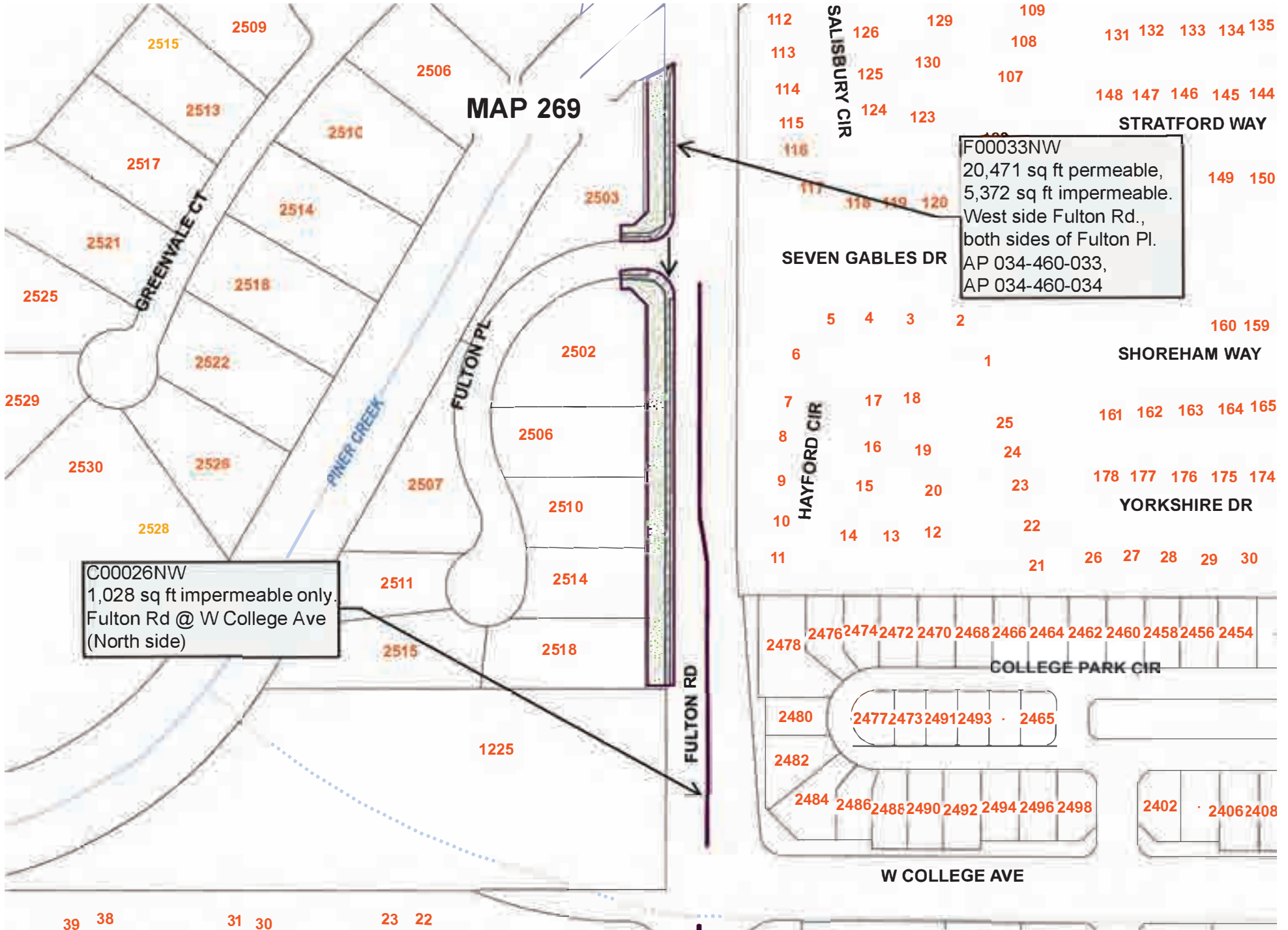
F00029NW
6,259 sq ft permeable,
2,939 sq ft impermeable.
South side Guerneville Rd.,
both sides of Centurion Dr.
AP 036-420-037,
AP 036-420-038

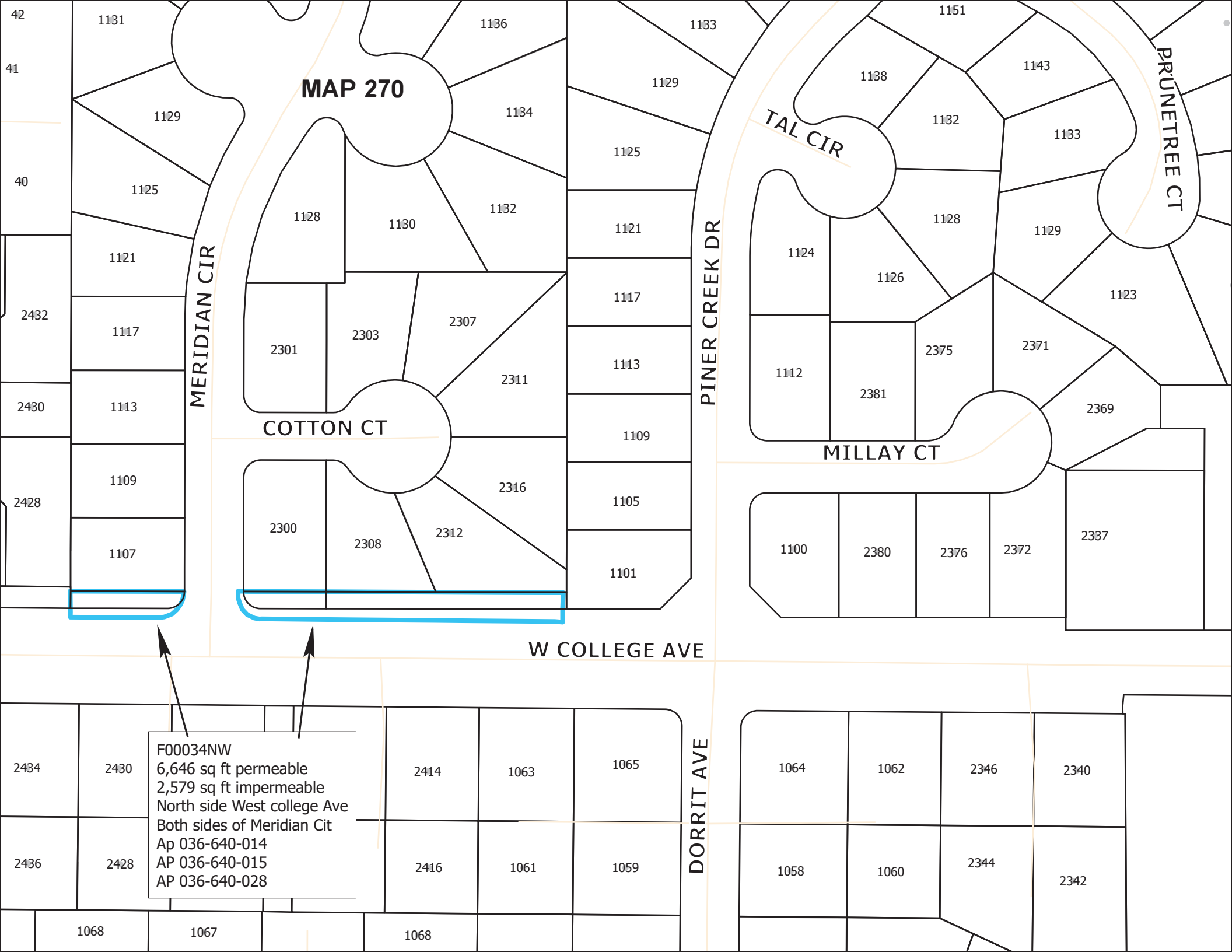
F00030NW
1,434 sq ft permeable,
533 sq ft impermeable.
South side Guerneville Rd.
AP 036-141-080

MAP 268

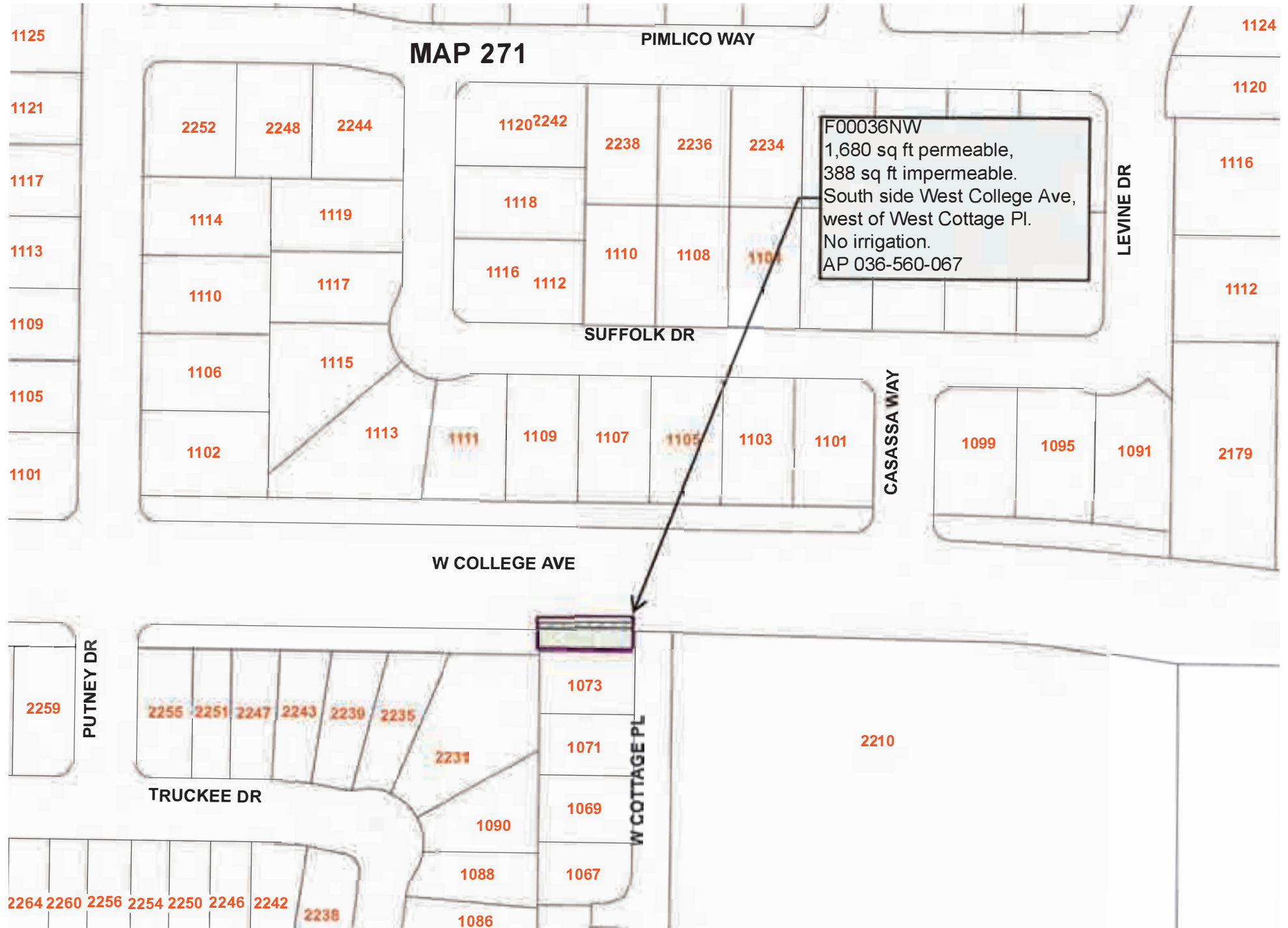


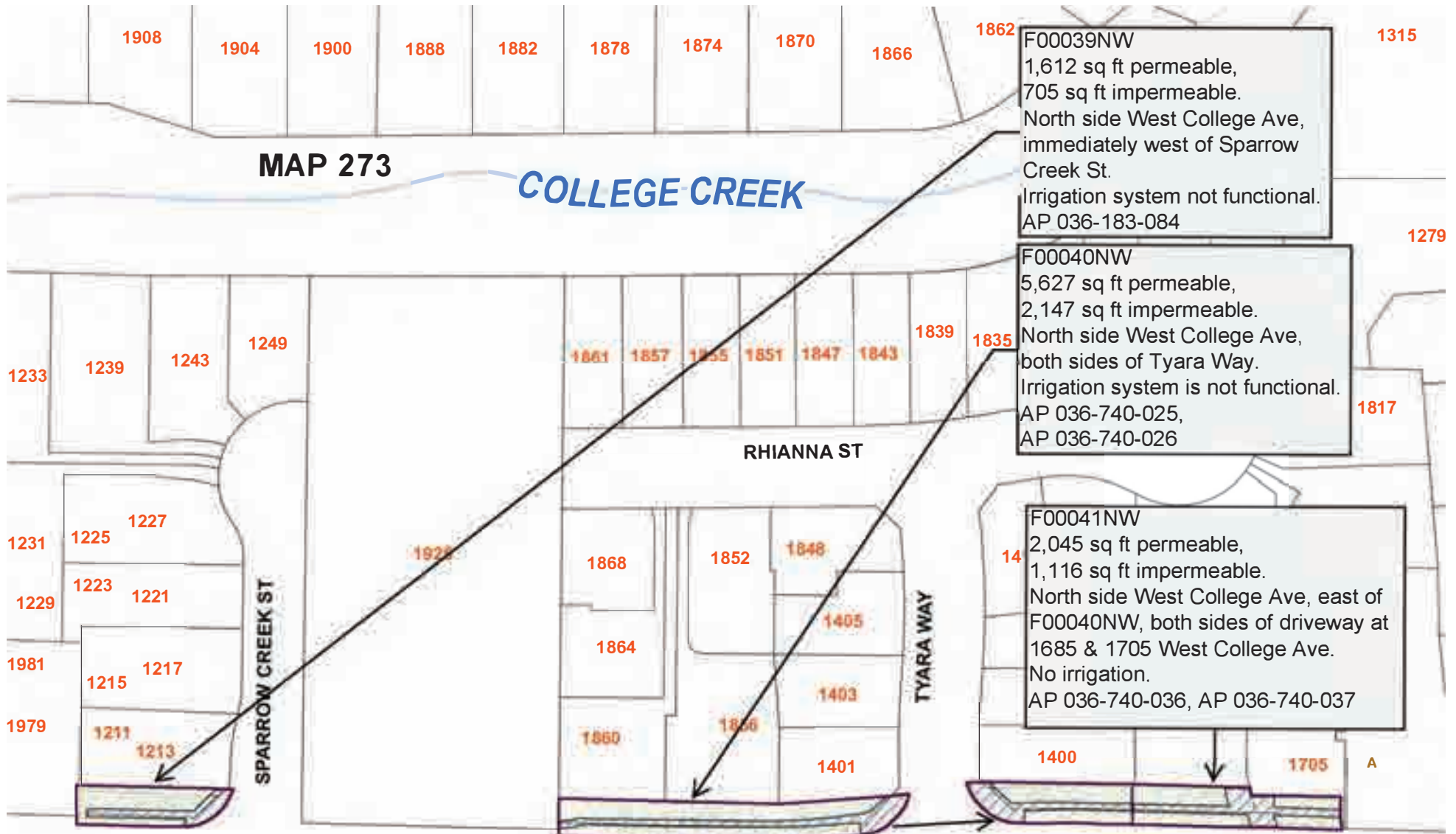
MAP 269





F00034NW
6,646 sq ft permeable
2,579 sq ft impermeable
North side West college Ave
Both sides of Meridian Cit
Ap 036-640-014
Ap 036-640-015
Ap 036-640-028





MAP 274

W COLLEGE AVE

COLLEGE AVE

C00001NW
174 sq ft impermeable only.
West College Ave. @
Maxwell Dr.

F00042NW
7,487 sq ft permeable,
3,512 sq ft impermeable.
West side N Dutton Ave,
both sides of Kingwood St.
Irrigation system is not functional.
AP 037-053-042,
AP 037-054-056

I00002NW
3,693 sq ft permeable only.
Saracen Rd (middle) @
N Dutton Ave

N DUTTON AVE

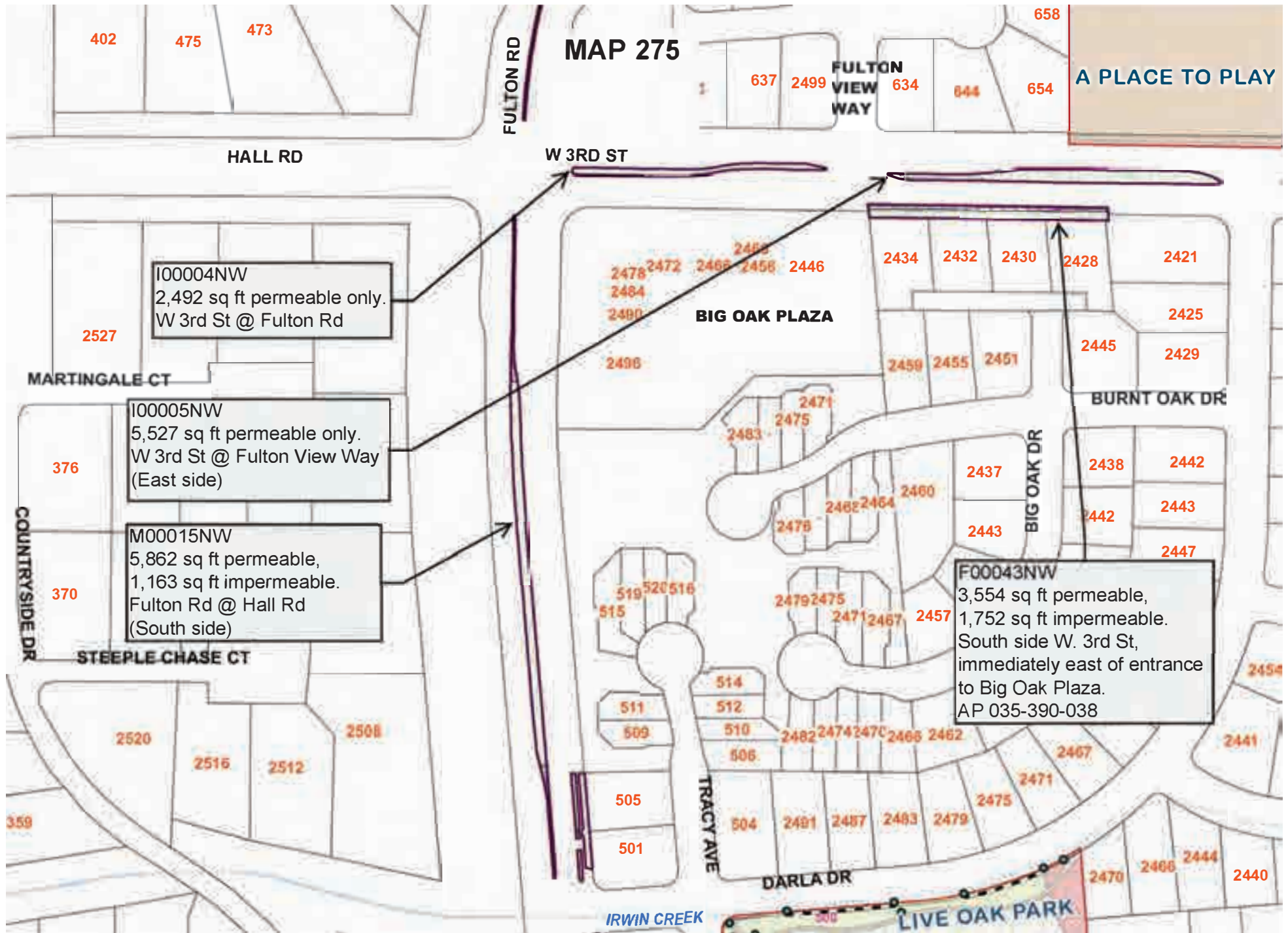
LODI ST

MAXWELL DR

KINGWOOD ST

SARACEN RD

BETHEL AVE



MAP 276

F00045NW

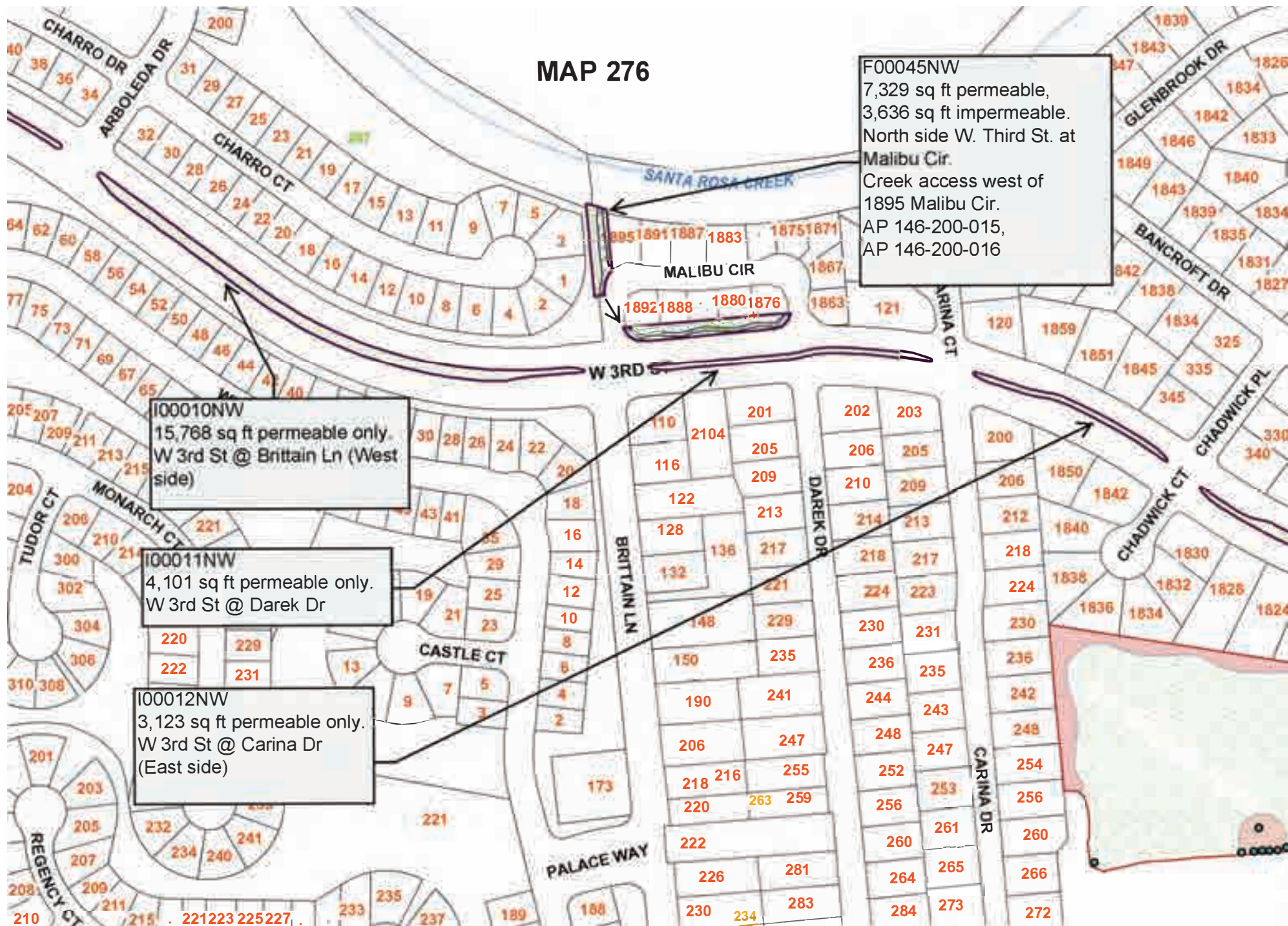
7,329 sq ft permeable,
3,636 sq ft impermeable.
North side W. Third St. at
Malibu Cir.

Creek access west of
1895 Malibu Cir.
AP 146-200-015,
AP 146-200-016

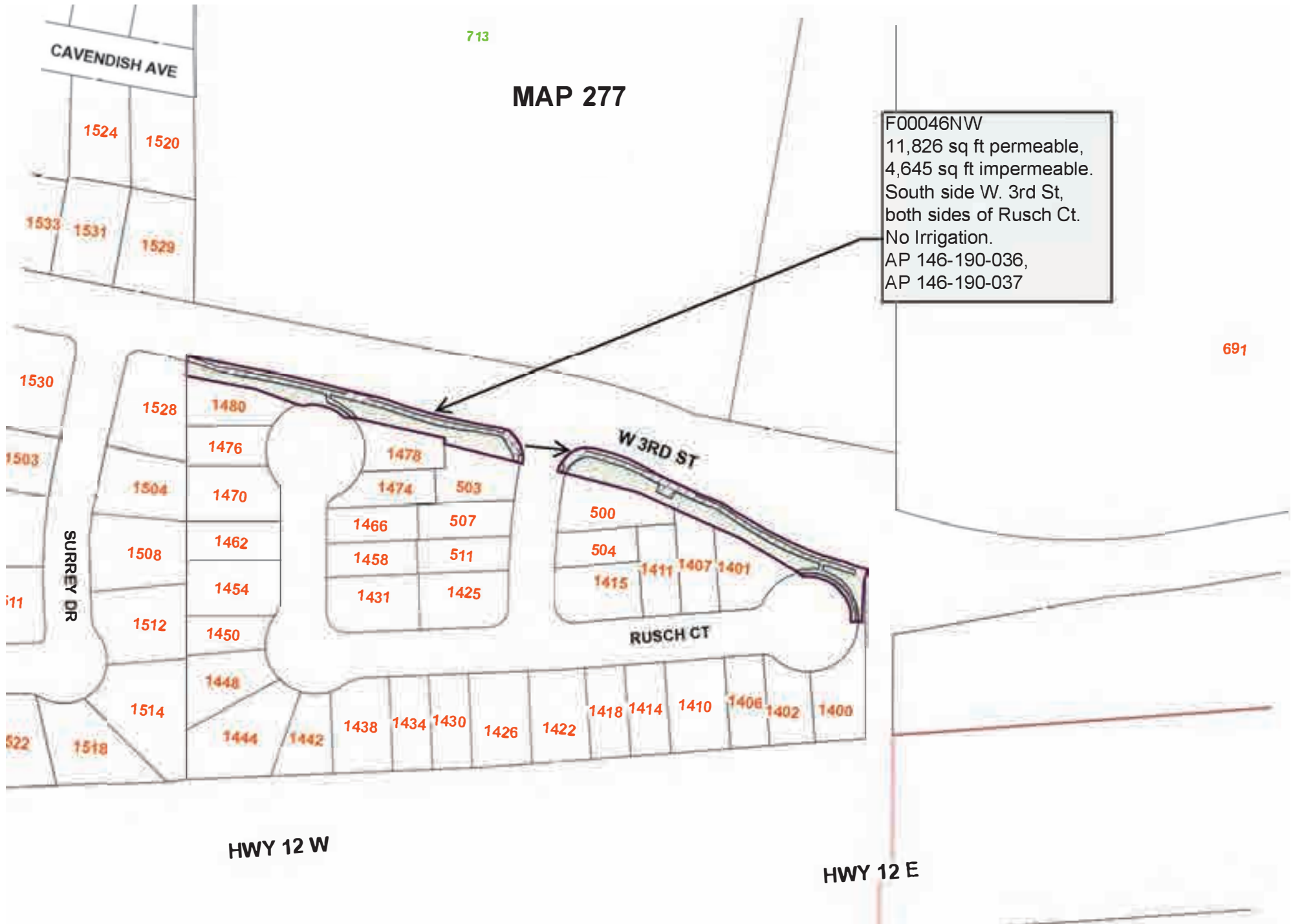
100010NW
15,768 sq ft permeable only.
W 3rd St @ Brittain Ln (West
side)

100011NW
4,101 sq ft permeable only.
W 3rd St @ Darek Dr

100012NW
3,123 sq ft permeable only.
W 3rd St @ Carina Dr
(East side)



MAP 277



MAP 278

WESTGATE CIR

SOVEREIGN LN

DONAHUE AVE

ASUELO WAY

LONGHORN CIR

LEISURE PARK CIR

BRITAIN LN

OCCIDENTAL CIR

MICHAEL DR

F00047NW
26,303 Sqft, Permeable
8,057 Sqft. Impermeable
North Side of Occidental Rd., Britain Ln.
to 100ft West of Michael Dr.,
Includes planter strips on west side of
Britain Ln. Landscape wraps onto both
sides of Nicholas St. and Michael Dr.
AP 035-660-055, AP 035-660-056,
AP 035-660-057

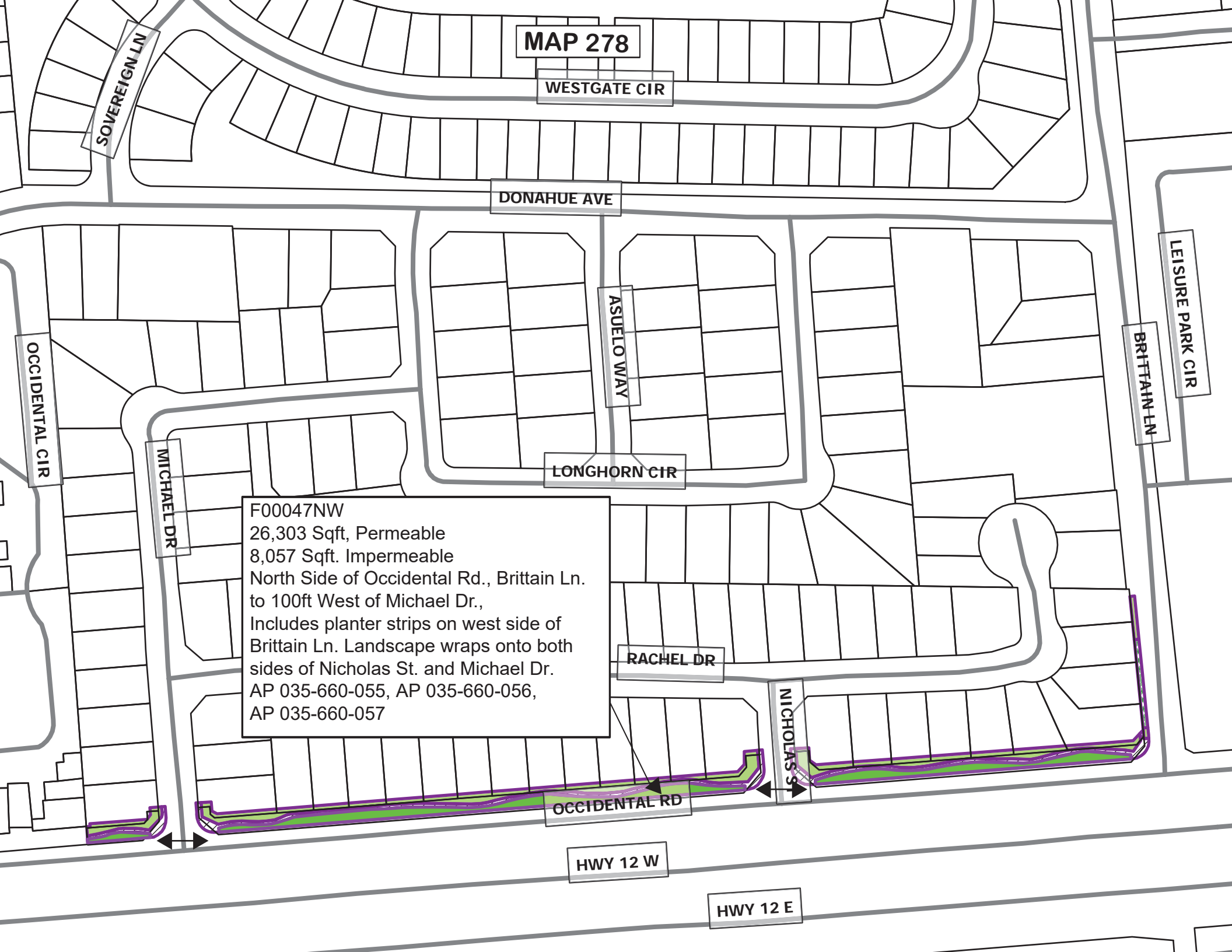
RACHEL DR

NICHOLAS ST

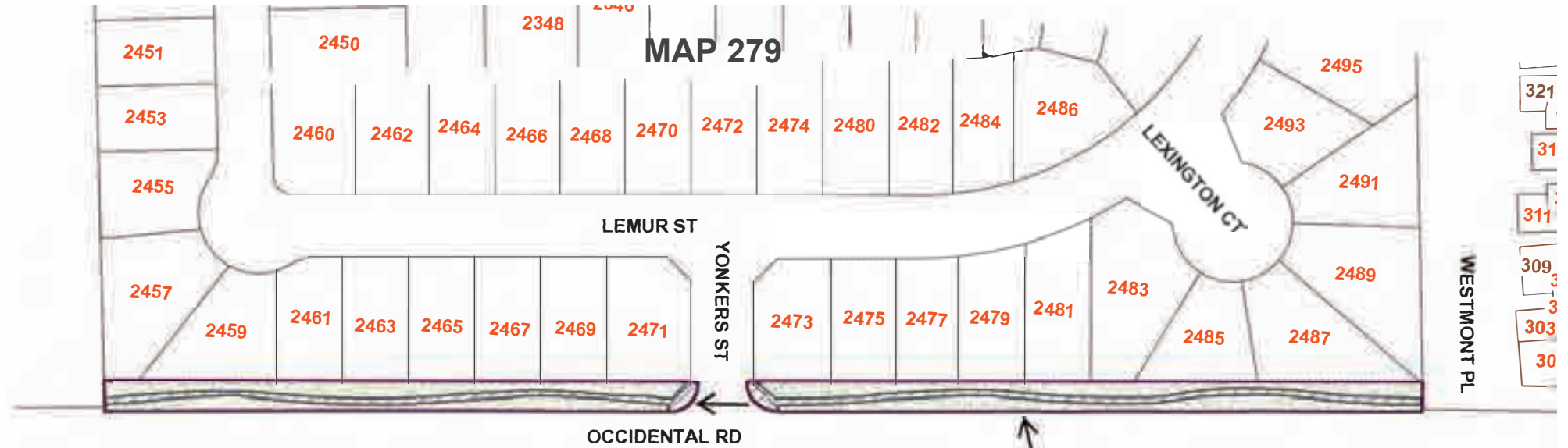
OCCIDENTAL RD

HWY 12 W

HWY 12 E



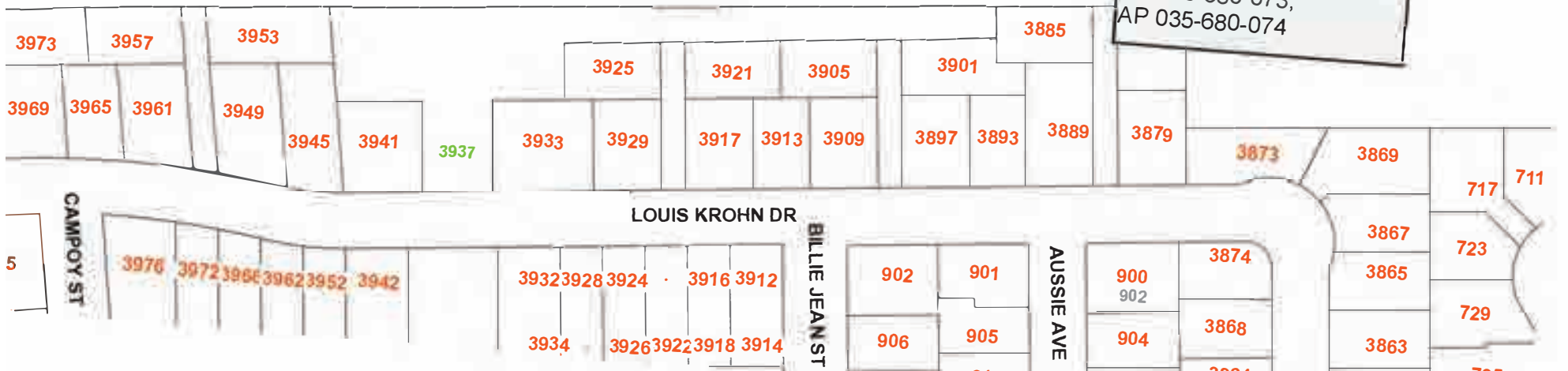
MAP 279



HWY 12 W

HWY 12 E

F00048NW
20,101 sq ft permeable,
5,627 sq ft impermeable.
North side Occidental Rd.,
east of PG&E,
both sides of Yonkers St.
AP 035-680-073,
AP 035-680-074



MAP 280

CABALLO CT

FARRIER CT

SEA BISCUIT CT

COUNTRYSIDE DR

EQUINE PL

FULTON RD

TRACY AVE

WIDGEON CT

TEALE CT

M00014NW
15021 sq ft permeable
669 sq ft impermeable
Fulton Rd. @
San Sebastian Ave (North side)

SAN SEBASTIAN AVE

WREN DR

WEST DR

MALLARD DR

RUSTY DR

DARLA DR

MAP 281

A PLACE TO PLAY

100006NW
16,398 sq ft permeable only.
W 3rd St @ Senna Dr
(West side)

W 3RD ST

DARLA DR

100023NW
2,296 sq ft permeable only.
W 3rd St @ Darla Dr
(East side)

HEAVY CT

SQUIRREL CT

CHIPMUNK CT

WOODCHUCK CT

LIVING OAK CT

SENNA DR

BAGGETT DR

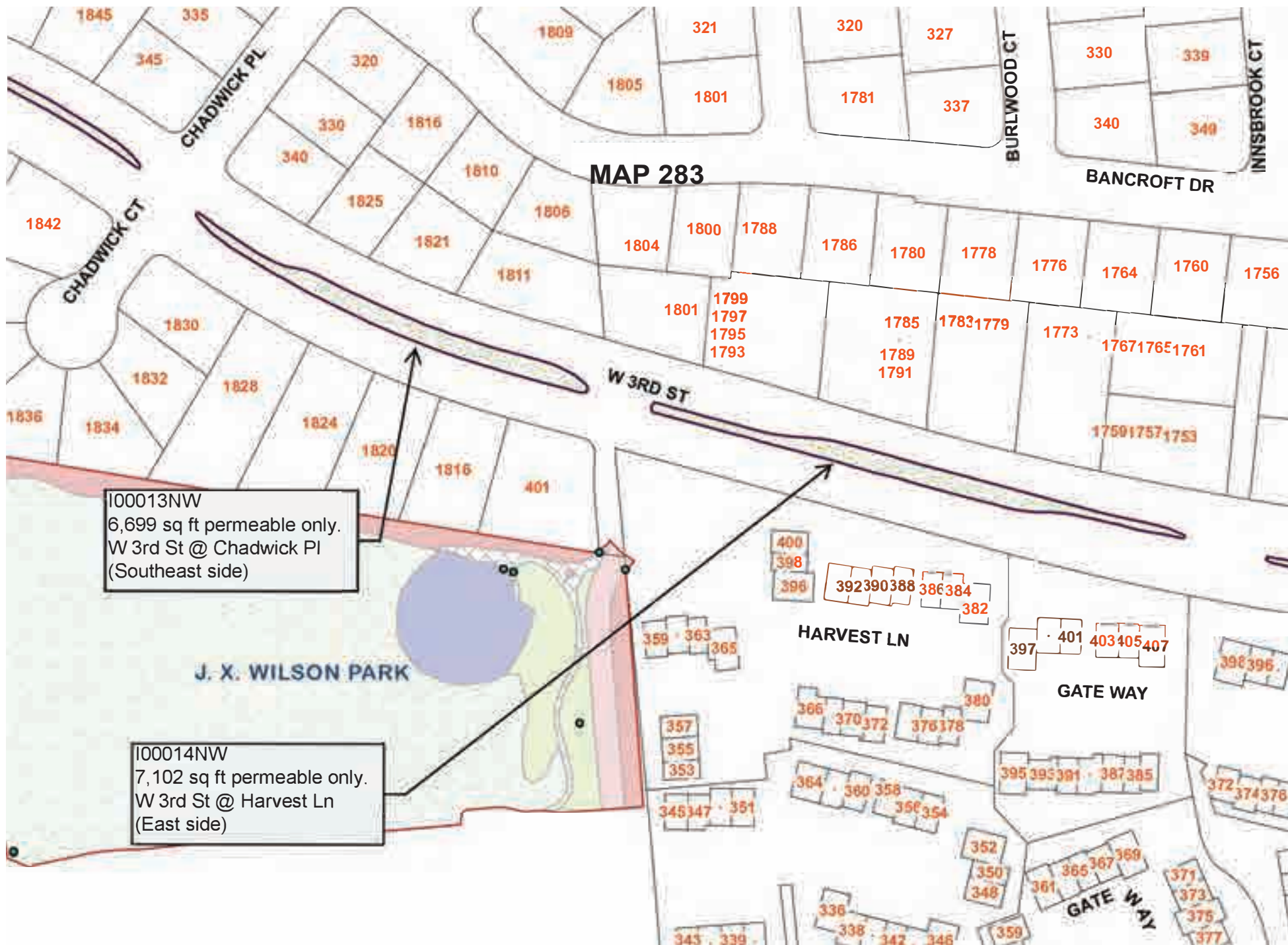
2454 2428

2384

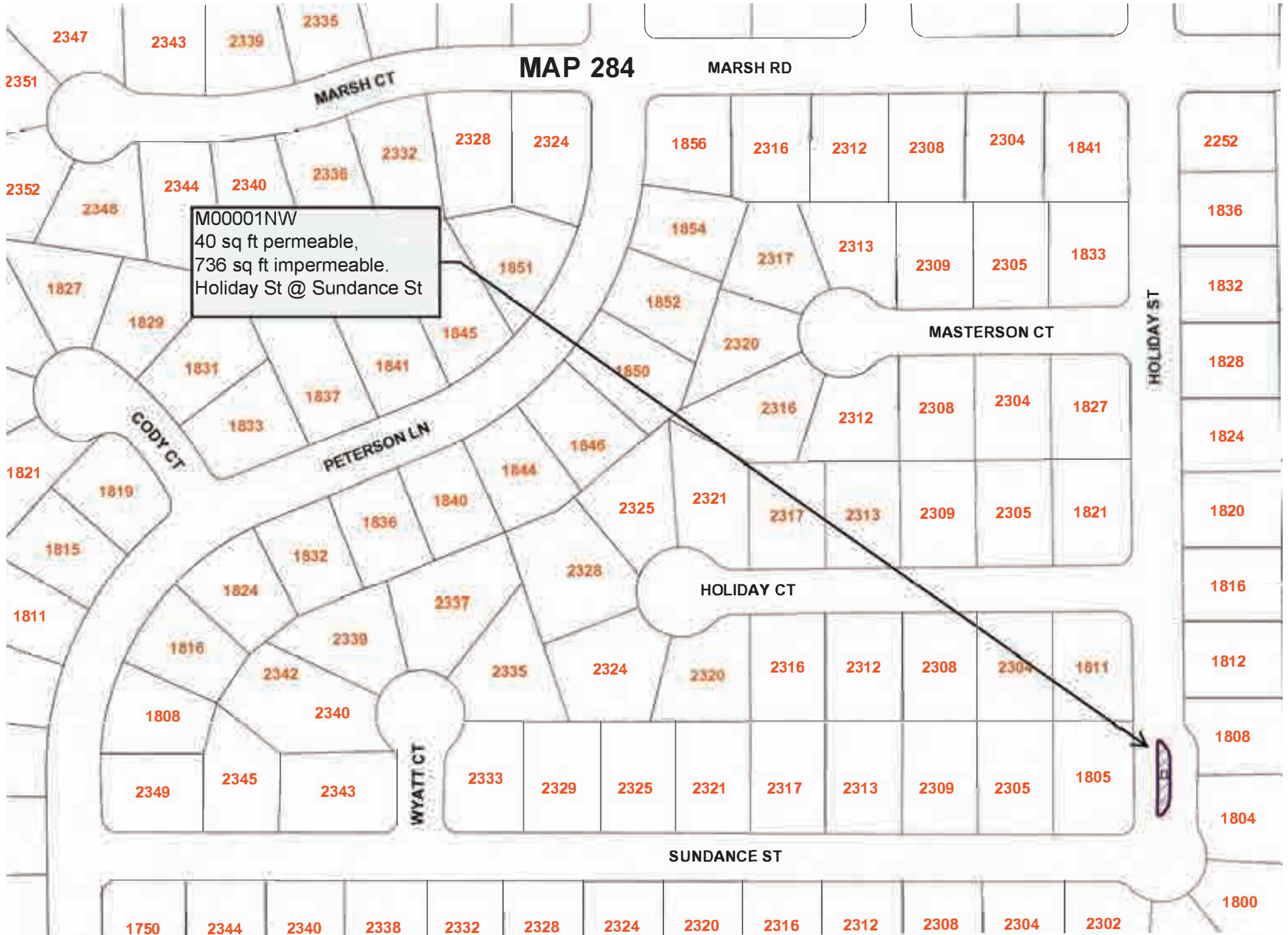
MAP 282

A PLACE TO PLAY

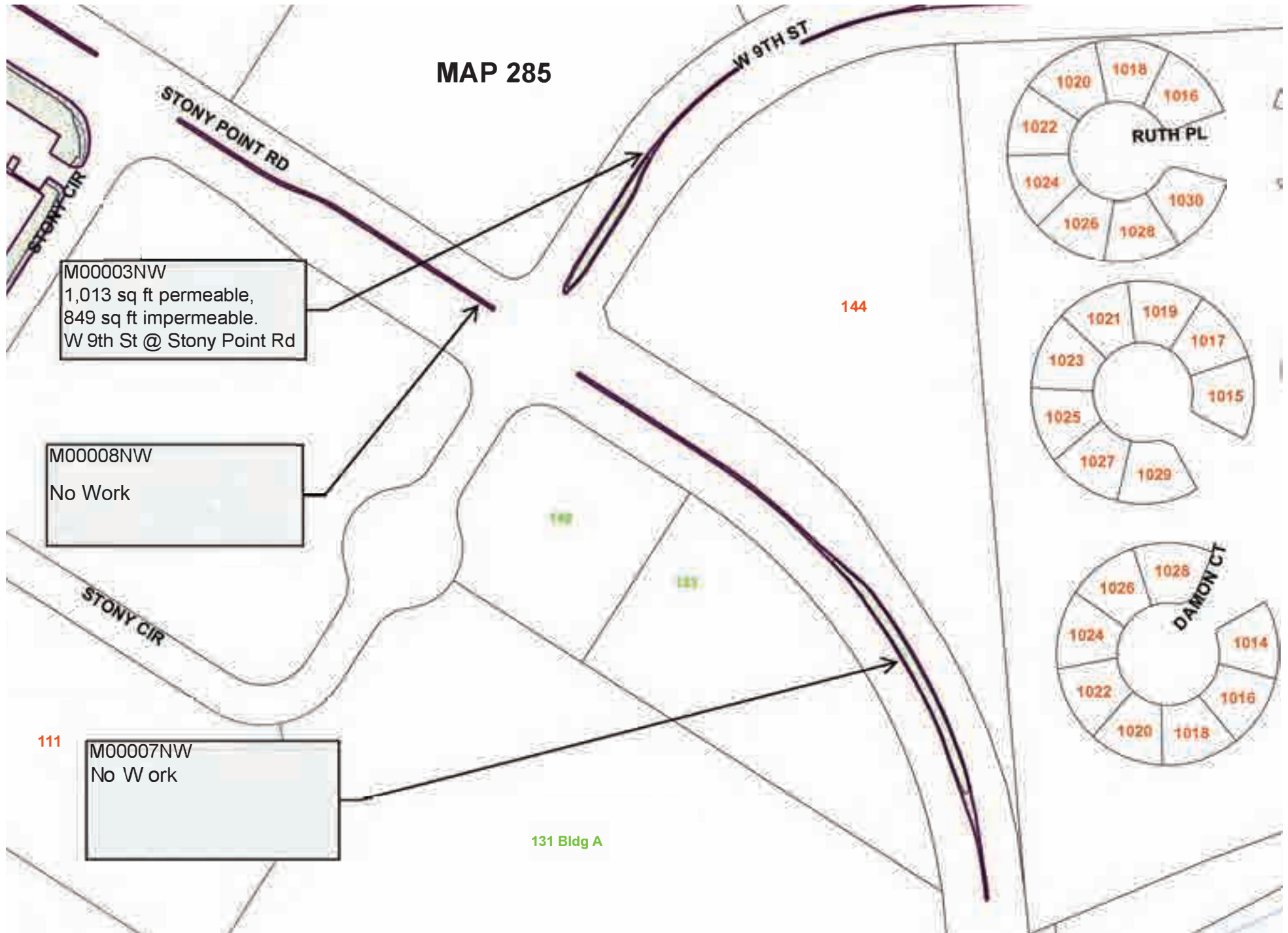




MAP 284



MAP 285



1048
MAP 286

1158

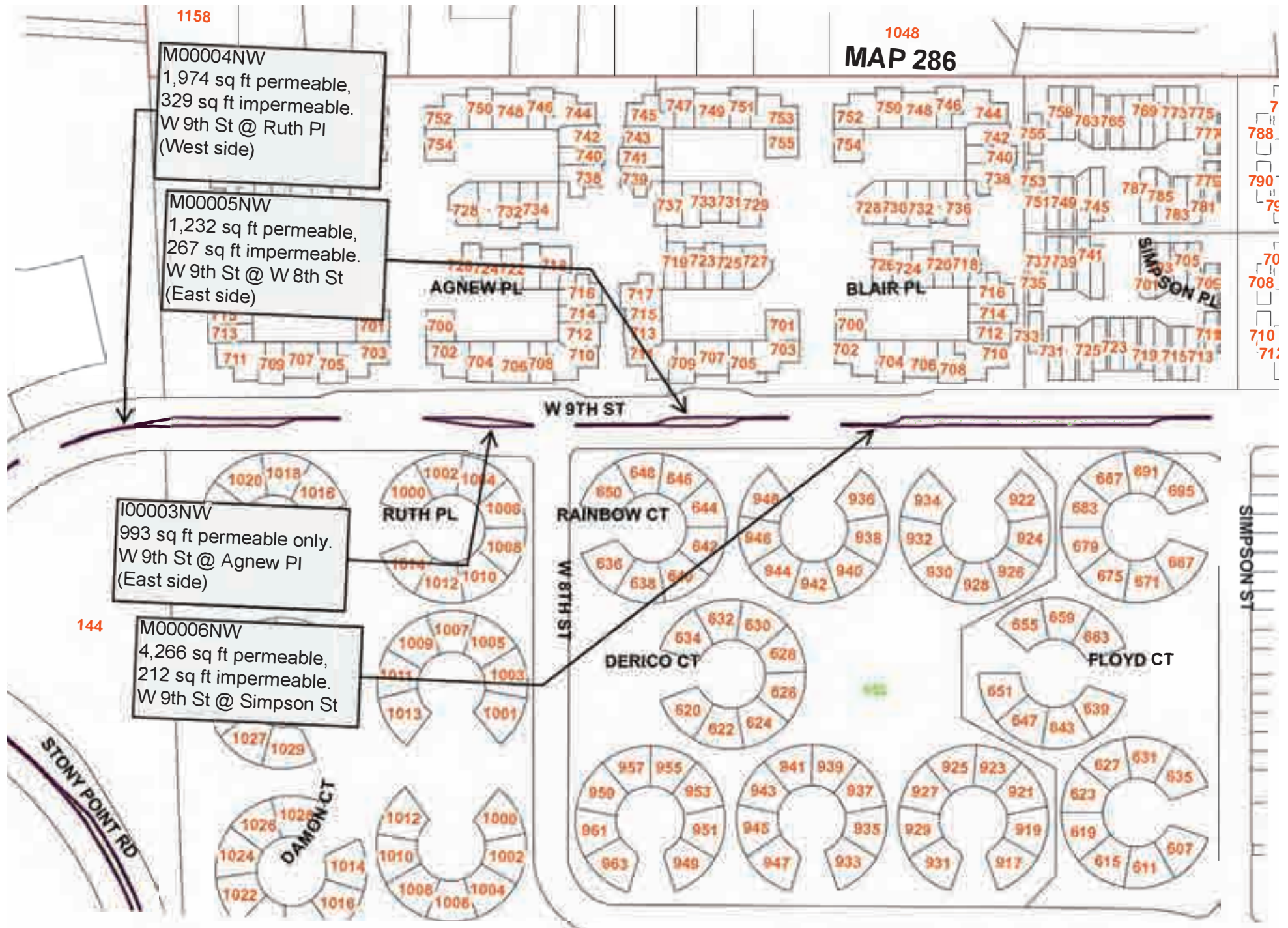
M00004NW
1,974 sq ft permeable,
329 sq ft impermeable.
W 9th St @ Ruth Pl
(West side)

M00005NW
1,232 sq ft permeable,
267 sq ft impermeable.
W 9th St @ W 8th St
(East side)

100003NW
993 sq ft permeable only.
W 9th St @ Agnew Pl
(East side)

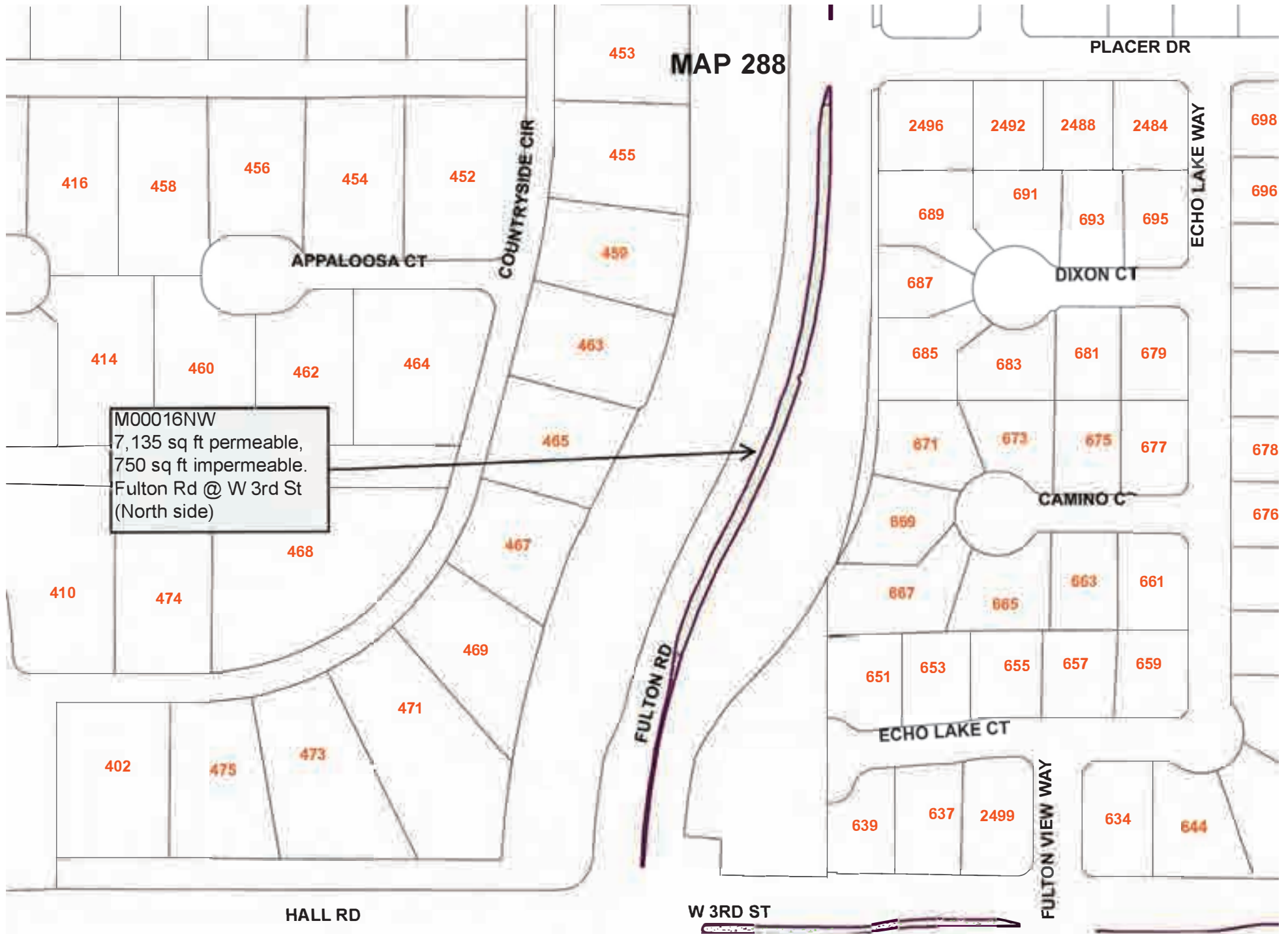
144

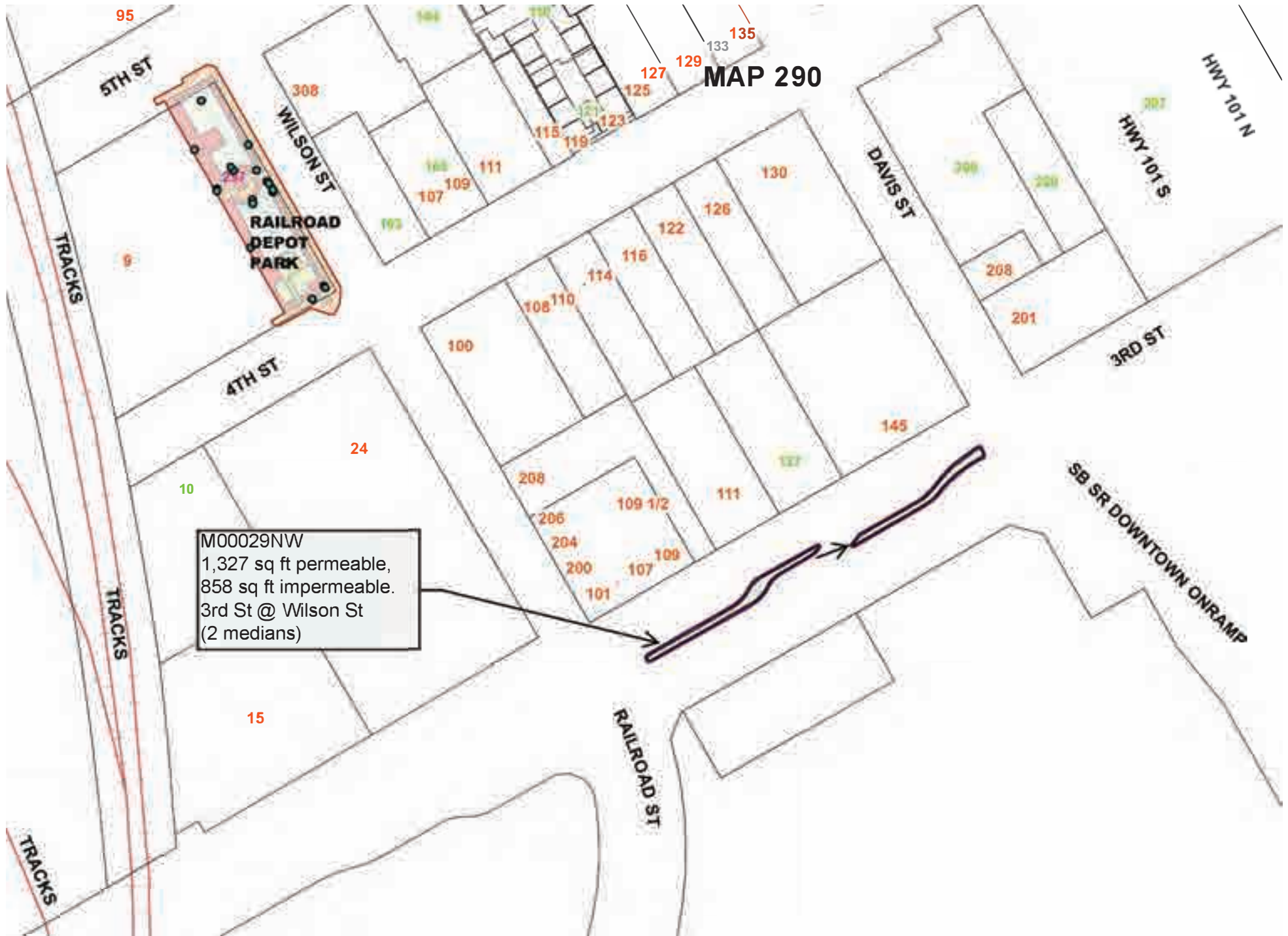
M00006NW
4,266 sq ft permeable,
212 sq ft impermeable.
W 9th St @ Simpson St



MAP 287







MAP 294

SEBASTOPOL AVE

MILL ST

PINE ST

PALM ST

SANTA ROSA AVE

OAK ST

MAPLE AVE

C00057NE
650 sq ft Impermeable only
Santa Rosa Ave Between
Pine St. and Palm St.

C00058NE
285 sq ft Impermeable only
Santa Rosa Ave between
Pine St. and Sebastopol Ave

IM00072NE
2594 sq ft Permeable
227 sq ft Impermeable
Santa Rosa Ave between
Oak St. and Maple Ave.



MAP 295

M00075NE
579 sq ft Permeable
204 sq ft Impermeable
Santa Rosa Ave between
Charles St. and
Julliard Park Dr. (North)

M00074NE
843 sq ft Permeable
79 sq ft Impermeable
Santa Rosa Ave between
Charles St. and
Julliard Park Dr. (South)

SANTA ROSA AVE

CHARLES ST

WHEELER ST

M00073NE
661 sq ft Permeable
642 sq ft Impermeable
Santa Rosa Ave between
Hill St. and Wheeler St.

JULLIARD PARK DR

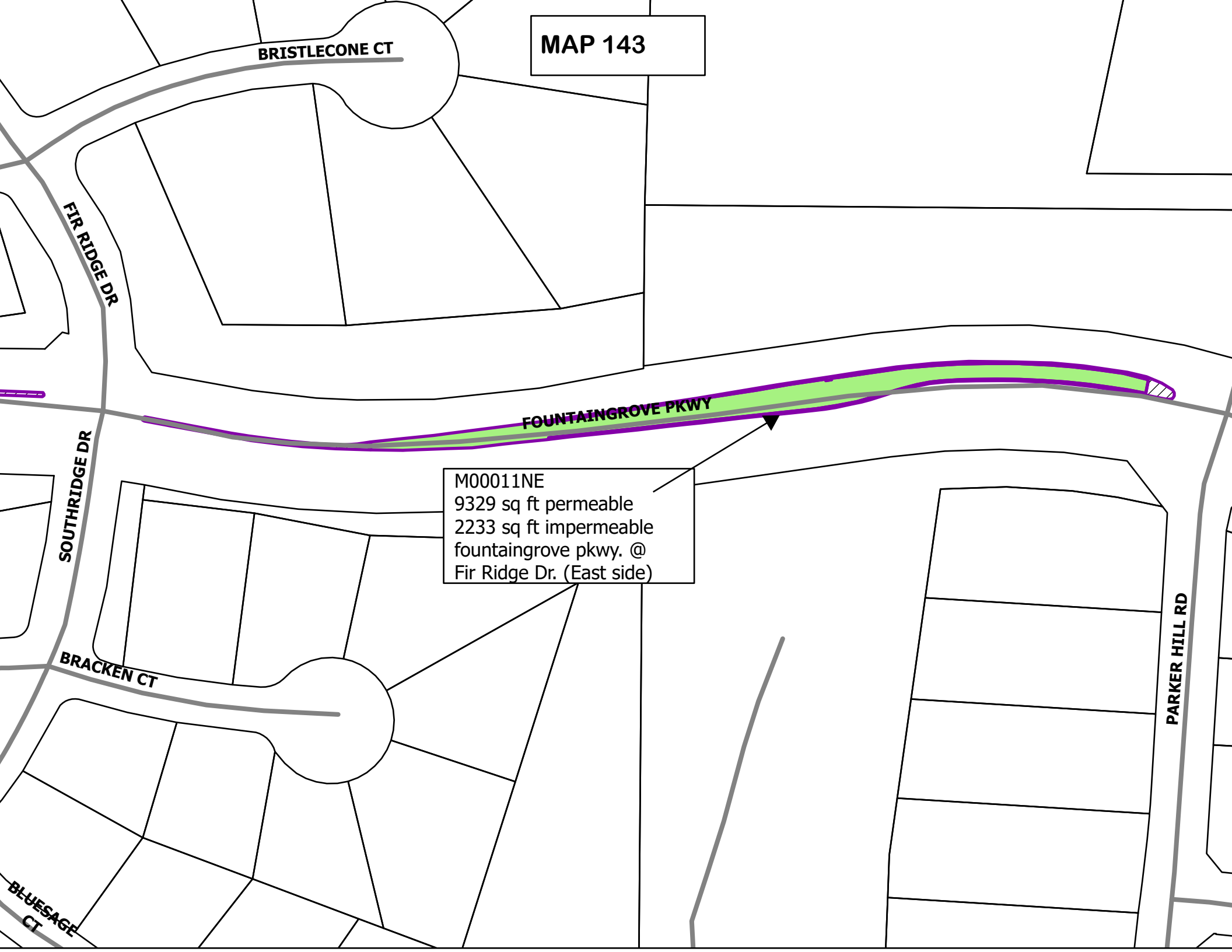
MILL ST

Optional Fountaingrove Corridor Parks Roadway Maintenance Exhibit B1: Location List and Maps

Exhibit B2 contains a list of all roadway sites which require maintenance work as specified in the Scope of Work followed by the corresponding map. Contractor may reference the Map # on the list to locate the map associated with the address. Square feet of all locations are provided as a reference only. Contractor is responsible for verifying the square feet and area of all landscape areas associated with the Scope of Work.

Fountaingrove Corridor					
Map #	Landscape Units Included	Sq. Feet Total	Address	Sq. Feet Permeable	Sq. Feet Impermeable
143.	M00011NE	11553.2	Fountaingrove/Parker Hill	9320.335938	2232.863281
144.	M00012NE, M00013NE	31554.0	Fountaingrove/New Gate Ct	25355.77246	6198.250976
145.	M00014NE	42669.2	Fountaingrove/Rincon Ridge	35504.41602	7164.766602
146.	M00015NE	17284.4	Fountaingrove/Sedgemoore Dr	10434.82422	6849.552734
147.	M00016NE, M00017NE	35613.4	Fountaingrove/Boulder Pt	25559.28711	10054.14063
148.	M00018NE	34279.1	Fountaingrove/Hadley Hill Dr	28245.87402	6033.255859
149.	M00019NE, M00020NE	24855.2	Fountaingrove/Day Break Ct	19673.66992	5181.543945
152.	M00067NE	13893.0	Fountaingrove/Stage Coach	12903.75977	989.287109
153.	I00014NE, M00039NE	8754.8	Fountaingrove/Thomas Lake Harris	8088.682617	666.126953
154.	M00040NE	4379.4	Fountaingrove/Fir Ridge Dr	3095.041016	1284.3125
177.	M00046NE, M00047NE	12721.8	Fountaingrove Blvd/Varenna	7284.851562	5436.901367
Total		237557.5		185466.5	52091.0

MAP 143



BRISTLECONE CT

FIR RIDGE DR

FOUNTAINGROVE PKWY

M00011NE
9329 sq ft permeable
2233 sq ft impermeable
fountaingrove pkwy. @
Fir Ridge Dr. (East side)

SOUTH RIDGE DR

BRACKEN CT

BLUESAGE CT

PARKER HILL RD

MAP 144

PARKER HILL RD

HANSFORD CT

FOUNTAINGROVE PKWY

NEWGATE CT

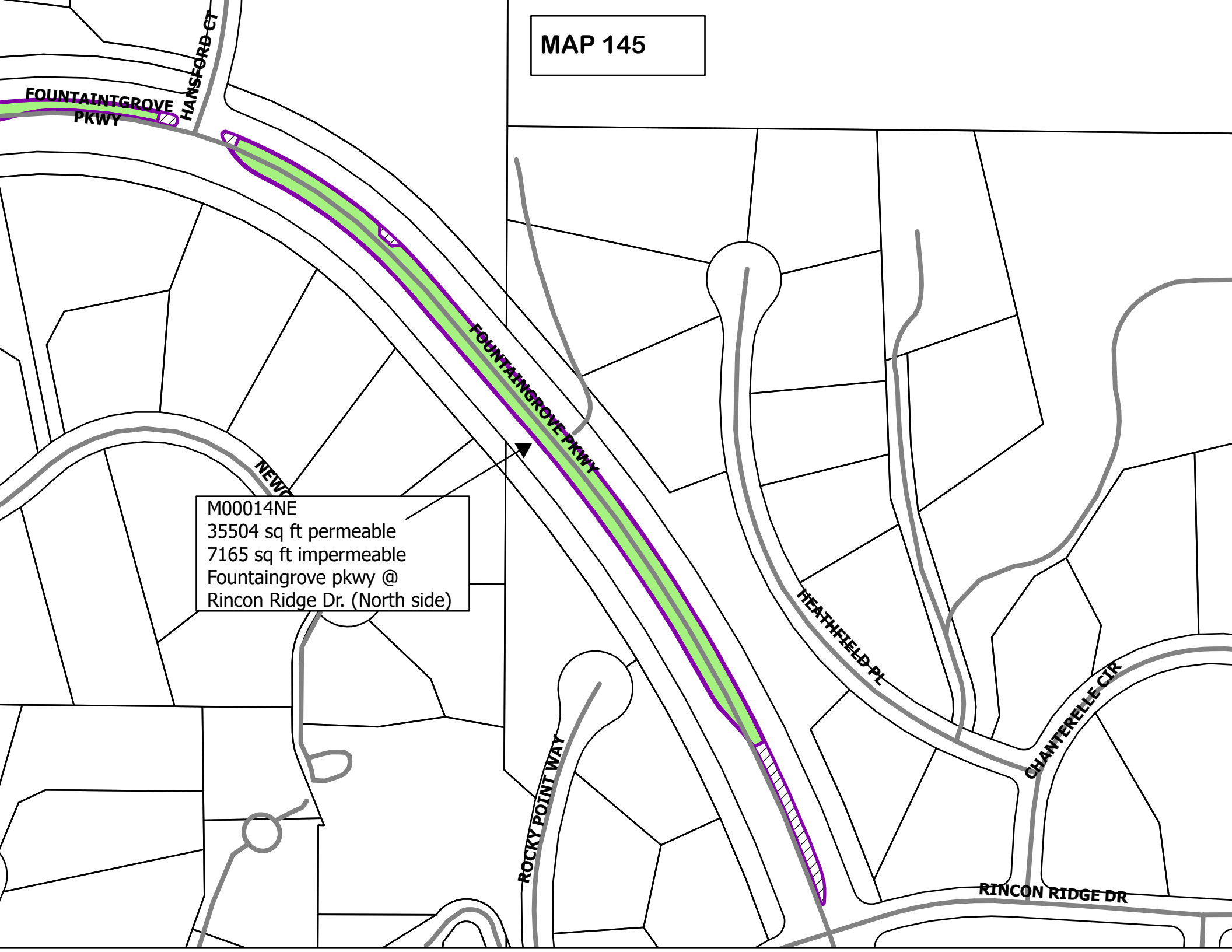
STANHOPE CT
WEDGEWOOD WAY

FOUNTAINGROVE PKWY

M00012NE
14738 sq ft permeable
3375 sq ft impermeable
Fountaingrove pkwy @
Newgate Ct. (West side)

M00013NE
10617 sq ft permeable
2823 sq ft impermeable
Fountaingrove pkwy @
Hansford Ct. (west side)

MAP 145



FOUNTAINGROVE
PKWY

HANSFORD CT

FOUNTAINGROVE PKWY

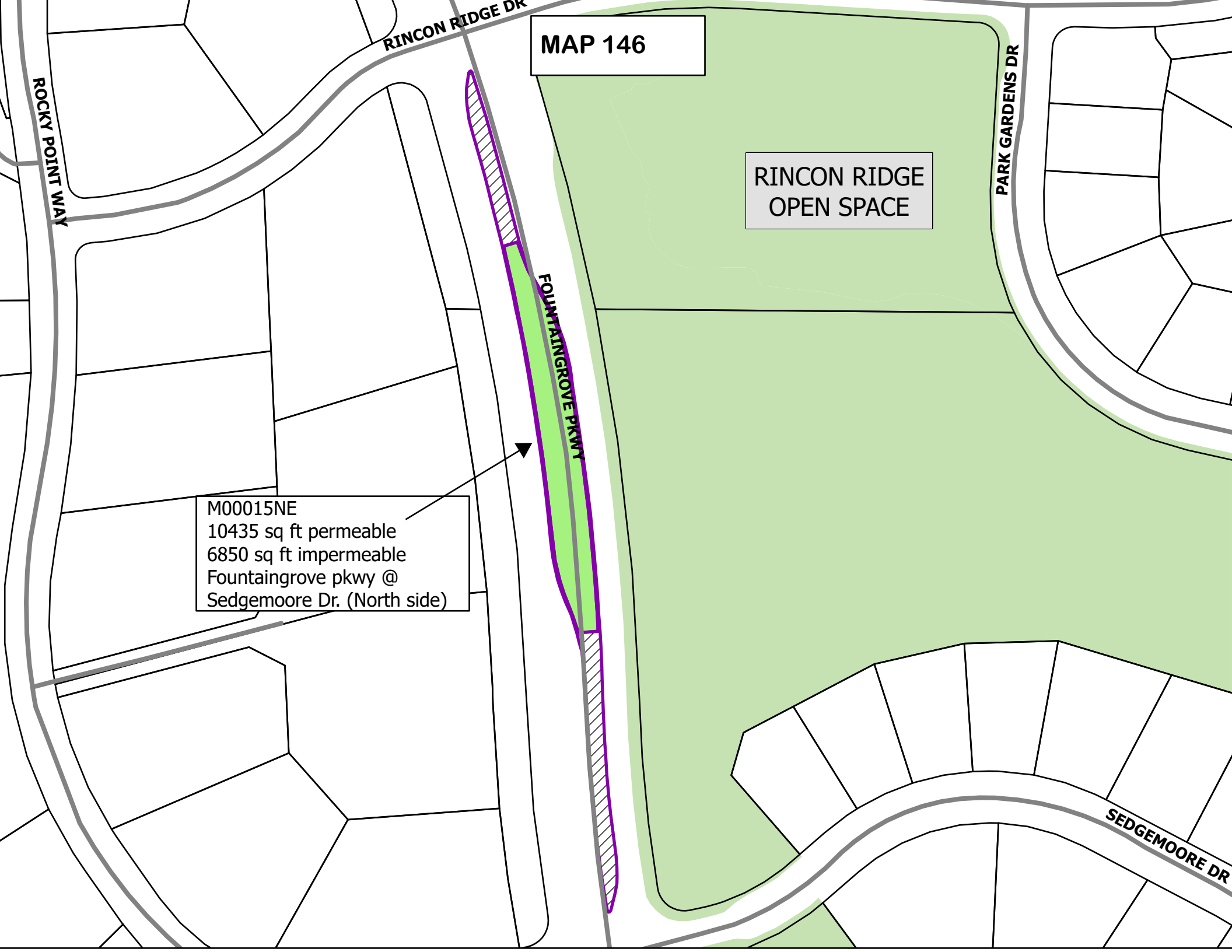
FEATHERFIELD PL

CHANTERELLE CIR

RINCON RIDGE DR

ROCKY POINT WAY

M00014NE
35504 sq ft permeable
7165 sq ft impermeable
Fountaingrove pkwy @
Rincon Ridge Dr. (North side)



MAP 146

RINCON RIDGE
OPEN SPACE

M00015NE
10435 sq ft permeable
6850 sq ft impermeable
Fountaingrove pkwy @
Sedgemoore Dr. (North side)

ROCKY POINT WAY

RINCON RIDGE DR

FOUNTAINGROVE PKWY

PARK GARDENS DR

SEDGEMOORE DR

MAP 147

ROCKY POINT WAY

MILLBROOK DR

SAGE HILL PL

REPTON WAY

M00016NE
14395 sq ft permeable
4249 sq ft impermeable
Fountaingrove pkwy @
Boulder Point Pl. (North side)

FOUNTAIN GROVE PKWY
BOULDER POINT PL

DOVERTON CT

RINGON RIDGE DR

YORKTON WAY

M00017NE
11164 sq ft permeable
5805 sq ft impermeable
Fountaingrove pkwy @
Hadley Hill Dr. (North side)

FOX HILL PL

ROCKY KNOLL WAY

MAP 148



M00018NE
28246 sq ft permeable
6033 sq ft impermeable
Fountaingrove pkwy @
Hadley Hill Dr. (South side)
(North side of intersection)

MAP 149

HADLEY HILL DR

LENDILL HILL DR

M00019NE
3129 sq ft permeable
2268 sq ft impermeable
Fountaingrove pkwy @
Daybreak Ct. (North side)

FOUNTAINGROVE PKWY

DAYBREAK CT

KENDALL HILL DR

M00020NE
16544 sq ft permeable
2914 sq ft impermeable
Fountaingrove pkwy @
Lendell Hill Dr. (North side)

MAP 152

SOUTHRIDGE DR

FOUNTAINGROVE PKWY

M00067NE
12904 sq ft permeable
989 sq ft impermeable
Fountaingrove pkwy @
Stagecoach Rd.

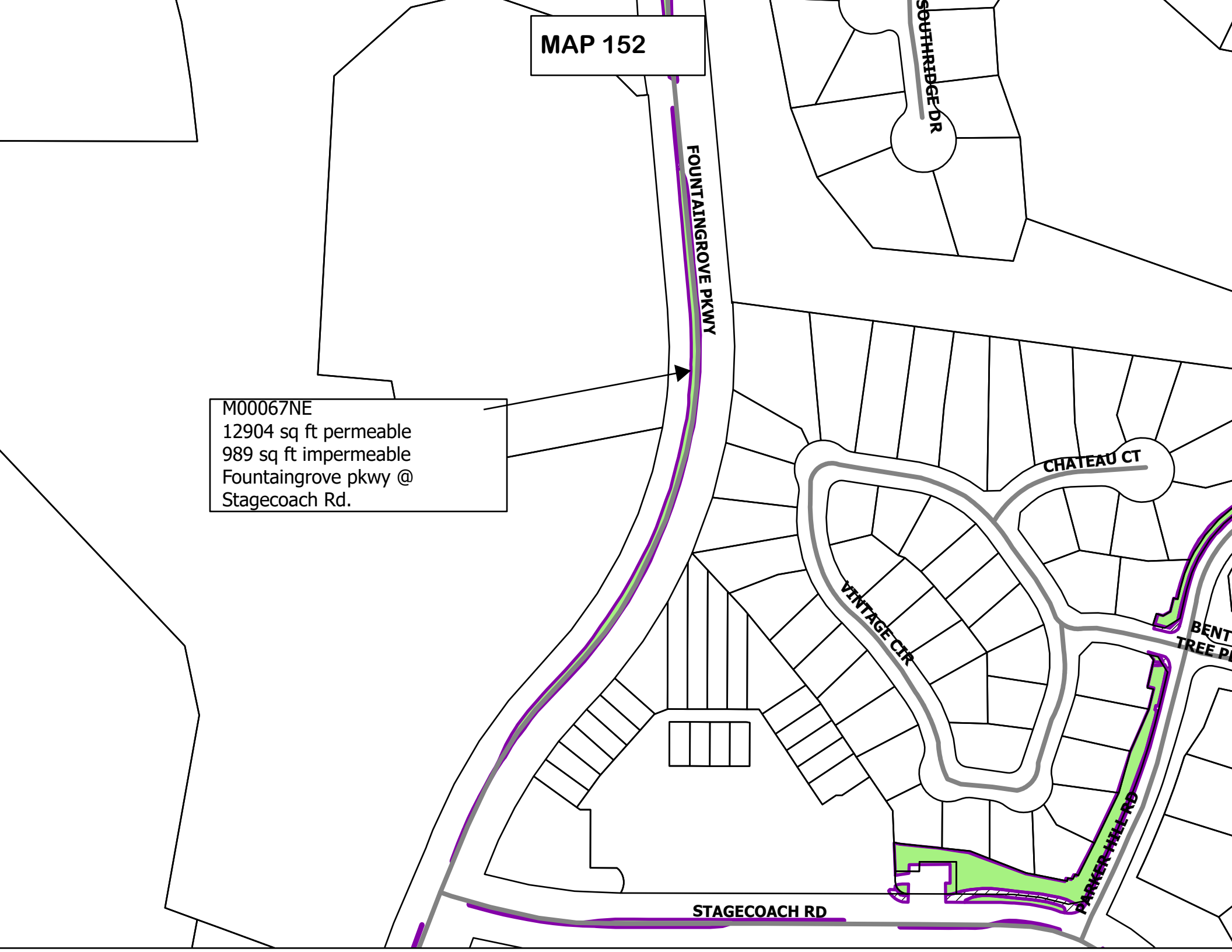
CHATEAU CT

VINTAGE CTR

BENT
TREE PL

PARKER HILL RD

STAGECOACH RD



MAP 153

I00014NE
893 sq ft permeable only
Fountaingrove pkwy @
Long Leaf Ct. (Southwest side)

M00039NE
7196 sq ft permeable
666 sq ft impermeable
Fountaingrove pkwy @
(Upper) Thomas Lake Harris Dr.
Southwest side)

FAIRWAY KNOLL CT

THOMAS LAKE HARRIS DR

FOUNTAINGROVE PKWY

TALL PINE CIR
LONG LEAF CT

FIR HOLLOW CT

SOUTHRIDGE DR

CLEARVIEW CIR

MAP 154

W BRISTLECONE CT

BRISTLECONE CT

FIR RIDGE DR

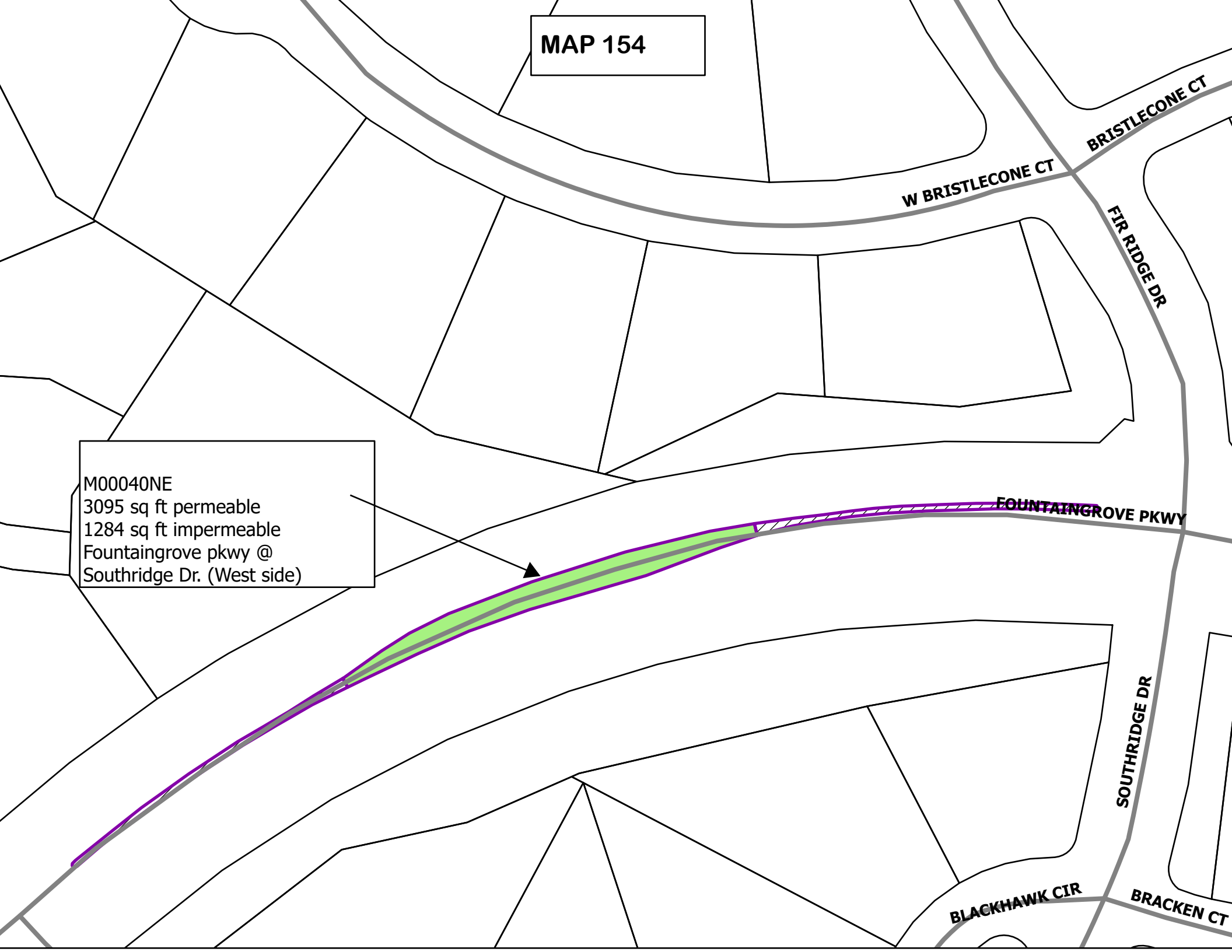
M00040NE
3095 sq ft permeable
1284 sq ft impermeable
Fountaingrove pkwy @
Southridge Dr. (West side)

FOUNTAIN GROVE PKWY

SOUTHRIDGE DR

BLACKHAWK CIR

BRACKEN CT



MAP 177

STAGECOACH RD

M00047NE
3,570 sq ft permeable,
2,917 sq ft impermeable.
Fountaingrove Pkwy @
Stagecoach Rd
(South side)

1401

1403

M00046NE
3,715 sq ft permeable,
2,520 sq ft impermeable.
Fountaingrove Pkwy @
Varena
(South side)

1397

1409

1405

VARENA

1407

1411

1415

1413

1443

1441

1419

1417

1445

1421

1423

1427

1425

1451

1429

1431

FOUNTAINGROVE PKWY

AGILENT TECHNOLOGIES

1400

FOUNTAINGROVE LAKE

NAGASAWA COMMUNITY PARK

1375

1395

1399

Base Bid Parks Roadway Maintenance
Exhibit C: Compensation Schedule

Base Bid, Exhibit C1 contains a list of all sites associated with the Scope of Work and a location for the Contractor's bid. The Bid Cost shall be the annual cost to perform the Scope of Work for each location. Contractor is responsible for verifying their Bid is accurate, prior to submittal.

Northeast Quadrant								
Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable	Monthly Cost Year 1	Monthly Cost Year 2	Monthly Cost Year 3
102.	M00002NE, M00003NE	8961.515625	Sonoma Ave/2nd St	5767.135742	3194.379883	224	235.2	246.96
103.	C00001NE, I00018NE, I00019NE	2586.5	Morgan/9th	2069.761719	516.743164	140.81	147.85	155.24
104.	C00002NE, C00003NE, C00004SE, C00005SE	1857.4	SR Ave/A St	0	1857.355468	231.88	243.47	255.65
105.	C00004NE	16.074219	S E St/1st St	0	16.074219	50.85	53.39	56.06
106.	C00005NE, I00029NE	1582.52832	Santa Rosa Ave/1st St	1053.057617	529.470703	130.98	137.53	144.4
107.	C00006NE, C00007NE, C00008NE	830.3	Mendocino Ave/College Ave	0	830.307617	101.7	106.79	112.13
108.	C00006SE, C00044NE	2269.519532	Farmers Ln/Sonoma Ave	0	2269.519532	134.93	141.68	148.76
109.	C00007SE, C00008SE, C00009SE, M00068NE	8333.4	Farmers Ln/Bennett Val Rd	1072.06543	7261.320313	214.47	225.19	236.45
110.	C00009NE, I00026NE	7162.49707	Mendocino Ave/Pacific Ave	6829.451172	333.045898	273.77	287.46	301.83
111.	C00010NE	304.711914	Mendocino Ave/McConnell Ave	0	304.711914	77.16	81.02	85.07
112.	C00011NE, C00012NE	438.479492	Mendocino Ave/Dexter/Elliott Ave	0	438.479492	104.23	109.45	114.92
113.	C00013NE, C00014NE, C00015NE, C00016NE	1145.3	Mendocino Ave/Steele Ln	0	1145.303711	165.12	173.38	182.05
114.	C00014SE, C00015SE, M00055NE , M00066NE	2742.4	Mission Blvd/Hwy 12	599.767578	2143.121094	358.15	376.06	394.86
115.	C00017NE, C00018NE, C00019NE, C00020NE, M00050NE	4232.5	Steele Ln/Illinois/Armory Dr	1960.357422	2272.157227	247.61	259.99	272.99
116.	C00017SE, C00042NE, C00043NE	2025.0	Farmers Ln/Montgomery Dr	0	2024.986328	130.54	137.07	143.93
117.	C00021NE, C00022NE	906.4	Mendocino Ave/Administration Dr/Chanate Rd	0	906.428711	143.7	150.89	158.43
118.	C00023NE, C00024NE, C00025NE, I00030NE	3789.1	Bicentennial Wy/Mendocino Ave	977.168945	2811.958984	200.03	210.04	220.54
Northeast Quadrant								

Base Bid Parks Roadway Maintenance
Exhibit C: Compensation Schedule

Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable	Monthly Cost Year 1	Monthly Cost Year 2	Monthly Cost Year 3
119.	C00027NE, C00028NE, C00029NE, C00030NE, C00031NE	8385.7	Chanate Rd/Terra Linda Dr	0	8385.65332	240.41	252.43	265.05
120.	C00032NE, M00023NE	2650.985352	Humbolt St/Chanate Rd	2340.06543	310.919922	125.54	131.81	138.4
121.	C00035NE	213.104492	Bryden Ln/4th St	0	213.104492	77.16	81.02	85.07
122.	C00039NE, C00045NE, I00001NE, M00004NE	3213.5	Brookwood Ave/Montgomery Dr/4th St	1234.908204	1978.570312	239.08	251.03	263.58
123.	C00040NE, I00025NE, I00040NE, M00053NE	6855.5	Farmers/Sun Ridge	6805.320312	50.506836	736.72	773.56	812.23
125.	C00048NE	1734.990234	College Ave/Hwy101	0	1734.990234	104.23	109.45	114.92
128.	C00053NE	498.72168	Mark West Rd/Cross Creek Rd. Rd	0	498.72168	88.55	92.98	97.62
129.	C00054NE, I00007NE	1588.741211	Middle Rincon/Badger	629.957031	958.78418	137.14	143.99	151.19
130.	C00055NE	227.241211	Mission Blvd/Randall Ln	0	227.241211	69.07	72.52	76.15
131.	F00001NE, C00033NE, C00034NE, I00043NE	1064.4	North St/Spencer/Pacific	714.551758	349.800782	400.32	420.34	441.36
132.	F00002NE, F00015NE	30987.6543	Lake Park Dr/Bicentennial Wy	24305.03027	6682.624024	582.8	611.94	642.53
134.	F00004NE	17343.11231	Brush Creek Rd/Forest Glen Wy	14623.24609	2719.866211	282.19	296.3	311.12
135.	F00005NE, M00025NE, M00026NE	20259.2	Montecito Blvd/Baird Rd	16666.57715	3592.630859	588.84	618.28	649.2
136.	F00006NE	19059.16992	Calistoga Rd/Badger Rd	16515.83789	2543.332031	523.82	550.02	577.52
137.	M00028NE, M00029NE, M00030NE	7475.6	Montecito Blvd Islands	6834.615234	640.936524	425.18	446.44	468.76
138.	F00010NE, F00002SE, M00008NE, M00009NE, M00010NE, M00052NE, M00062NE, M00069NE	29955.1	Mountain Hawk/Hwy 12	22251.41309	7703.692383	1828.04	1919.44	2015.41
Northeast Quadrant								
Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable	Monthly Cost Year 1	Monthly Cost Year 2	Monthly Cost Year 3
142.	F00016NE, C00036NE, C00037NE, C00038NE, I00024NE	12440.4	4th St/College Ave	7870.228516	3250.988282	346.75	364.09	382.29

Base Bid Parks Roadway Maintenance
Exhibit C: Compensation Schedule

157.	I00002NE, I00003NE	1437.853515	Dupont Dr/Calistoga Rd	1437.853515	0	135.83	142.62	149.75
158.	I00004NE, I00005NE	6137.478516	Yerbe Buena Rd/Saint Francis Rd	6137.478516	0	177.14	186	195.3
159.	I00006NE, I00033NE	18606.7168	Casita/La Cuesta Dr	18606.7168	0	330.88	347.42	364.79
160.	I00008NE	937.674805	Woodland Shadows Pl/Montecito Ave	937.674805	0	94.83	99.57	104.55
161.	I00009NE, I00028NE	2174.110352	Humbolt St/Mervyn Ave/Chanate Rd	2174.110352	0	110.51	116.03	121.83
162.	I00010NE	1040.881836	Knob Hill Dr	1040.881836	0	87.48	91.85	96.44
163.	I00011NE, I00035NE, I00036NE, I00037NE, I00038NE, I00039NE	4614.6	Pine Rock/Alita Vista Ave	4614.55664	0	293.37	308.04	323.45
164.	I00012NE	13169.31152	Middle Rincon Rd/Speers Rd	13169.31152	0	359.36	377.32	396.19
165.	I00015NE, I00016NE, I00020NE, I00021NE	1241.2	Spring St/16th/14th	1241.226562	0	130.09	136.59	143.42
166.	I00017NE	590.484375	Illinois Ave/Sucher Ln	590.484375	0	86.79	91.13	95.69
168.	I00034NE	92.958008	Canyonside Dr/Trailwood Dr	92.958008	0	61.41	64.48	67.7
169.	I00041NE, I00042NE	433.233399	Benton St/Glenn St/Morgan St	433.233399	0	83.23	87.39	91.76
170.	M00001NE	2022.084961	Beaver St/7th St	1573.432617	448.652344	109.93	115.43	121.2
172.	M00007NE	852.839844	Rivera Dr/Shady Oak Pl	662.118164	190.72168	78.34	82.26	86.37
173.	M00024NE	4544.40332	Montecito Blvd/Middle Rincon Rd	3937.946289	606.457031	167.8	176.19	185
174.	M00027NE	4419.801758	Montecito Blvd/St Mary Dr	3988.72168	431.080078	168.37	176.79	185.63
178.	M00048NE, M00049NE	15625.57715	County Center Dr	14720.33594	905.241211	562.07	590.17	619.68
183.	M00071NE	7665.5	3rd St/Morgan St	1326.628906	6338.871094	186.03	195.33	205.1
Total		298743.4		217806.2	79618.8			

Southeast Quadrant

Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable	Monthly Cost Year 1	Monthly Cost Year 2	Monthly Cost Year 3
184.	C00001SE	1119.1	Santa Rosa Ave/Hearn Ave	0	1119.081055	118.06	123.97	130.17
185.	C00002SE, C00003SE	559.7	Santa Rosa Ave/Barham Ave	0	559.742188	93.71	98.39	103.31
187.	C00012SE, C00013SE, I00012SE	4044.1	Mission Blvd/Montgomery Dr	2511.862305	1532.219727	210.96	221.51	232.59
188.	C00016SE, M00012SE	1238.0	Montgomery Dr/Summerfield Rd	215.818359	1022.205078	116.46	122.28	128.4
189.	F00004SE, I00010SE	14469.5	Newanga Ave/Kieran Ct	11222.375	3247.094727	338.71	355.64	373.43

Base Bid Parks Roadway Maintenance

Exhibit C: Compensation Schedule

190.	F00005SE	7611.4	Parktrail Dr/Summerfield Rd	5396.167969	2215.270508	181.5	190.58	200.11
191.	F00006SE , I00006SE, M00008SE, M000011SE	32083.6	Summerfield Rd/Carissa Ave	31756.72363	326.833008	537.24	564.1	592.31
192.	F00008SE, M00006SE, M00007SE	62014.2	Summerfield Rd/Bethards Dr	84,486.97	2613.533	1190.97	1250.51	1313.04
193.	M00003SE, M00004SE, M00005SE	9652.5	Bethards Dr/Knolls Dr	5772.960937	3879.556641	294.15	308.85	324.3
194.	C00010SE, F00011SE	3317.1	Bennett Vally Rd/Gordon Ln	0	3317.052734	165.29	173.55	182.23
195.	F00012SE	15664.0	Petaluma Hill Rd/Breeze Wy	10801.53223	4862.430664	352.67	370.31	388.82
196.	F00013SE, F00014SE, F00015SE	31937.0	Petaluma Hill Rd/Kawana Springs Rd	23441	8496	929.69	976.18	1024.99
197.	F00017SE, I00013SE	14969.5	Old Petaluma Hill Rd/ Winterhaven Ave	14969.48828	0	371.22	389.78	409.27

Southeast Quadrant

Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable	Monthly Cost Year 1	Monthly Cost Year 2	Monthly Cost Year 3
198.	F00018SE, C00018SE, I00014SE, I00015SE	20893.9	Santa Rosa Ave/Bellevue Ave	17845.90332	3048.039062	507.33	532.7	559.33
200.	F00020SE	1949.6	Stonehedge Dr/Westminster Pl	1268.800781	680.832031	100.78	105.81	111.11
201.	I00001SE, I00002SE	9144.6	Cliffwood Dr/Oakmont Dr	9144.624024	0	368.56	386.99	406.34
202.	I00003SE	648.2	Pressley St/Grand Ave	648.19043	0	71.12	74.67	78.41
203.	I00004SE, I00005SE	6500.7	Tachevah Dr/Knolls Dr	6500.680664	0	293.75	308.44	323.86
204.	I00008SE	3711.7	Santa Margarita Ct/Annadel Heights Dr	3711.717773	0	118.61	124.54	130.77
205.	I00009SE	1011.0	Comfrey Pl/Parktrail Dr	1011.038086	0	89.82	94.31	99.03
206.	I00011SE	3038.9	Honor Oak Ct/Newanga Ave	3038.94043	0	105.93	111.23	116.79
207.	I00016SE	1075.4	Belhaven Ct/Belhaven Cir	1075.424805	0	91.34	95.91	100.71
208.	I00019SE	3711.7	Santa Rosa Ave/Baker Ave O/C	3711.667969	0	139.5	146.48	153.8
209.	I00020SE	1822.5	Woodley Way/ Woodley Pl	1822.522461	0	109.13	114.59	120.32
210.	M00001SE	17508.2	Hillsdale Dr/Ridgegreen Dr	17396.88672	111.263672	416.91	437.75	459.64

Base Bid Parks Roadway Maintenance
Exhibit C: Compensation Schedule

211.	M00002SE	883.7	Sidney Sq/Fir Dr	338.058594	545.675781	77.82	81.71	85.8
212.	M00009SE, M00010SE	8725.2	Santa Rosa Ave/Yolanda Ave	6330.521484	2394.69629	266.84	280.18	294.19
213.	M00011SE	1041.2	Twin Ct/Horseshoe Dr	217.580078	823.65918	81	85.05	89.3
Total		280346.3		264637.5	40795.2			

Southwest Quadrant

Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable	Monthly Cost Year 1	Monthly Cost Year 2	Monthly Cost Year 3
214.	C00001SW, C00024NW	1261.9	Dutton Ave/Hwy 12	0	1261.871094	123.97	130.17	136.67
215.	C00002SW, C00005SW	1646.7	Hearn Ave/Dowd Dr	0	1646.697265	110.81	116.35	122.17
217.	C00004SW, M00006SW	5120.9	Sebastopol Rd/N Wright Rd	3032.871094	2088.0625	176.96	185.8	195.09
222.	F00005SW, M00007SW	133783.7	Fresno Ave/Northpoint Pkwy	112466.002	21317.68457	1871.6	1965.18	2063.44
225.	F00008SW, F00012SW	12775.8	Lone Star Ct/Rain Dance Way	9686.270508	3089.50293	244.93	257.18	270.04
226.	F00010SW	4632.2	Burgess Dr/Rain Dance Way	2940.06543	1692.086914	167.48	175.86	184.65
231.	M00001SW, M00002SW, M00003SW, M00004SW	19029.9	Sebastopol Rd/Doubles Dr	14589.06641	4440.84082	613.6	644.28	676.5
Total		178251.0		142714.3	35536.7			

Northwest Quadrant

Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable	Monthly Cost Year 1	Monthly Cost Year 2	Monthly Cost Year 3
235.	C00002NW, M00021NW	1372.5	Guerneville Rd/Marlow Rd	0	1372.538086	210.52	221.05	232.1
236.	C00003NW, C00004NW	3638.3	Guerneville Rd/Ridley Ave	0	3638.314453	166.47	174.79	183.53
237.	C00005NW, C00006NW	3207.7	Guerneville Rd/Lance Dr	0	3207.749023	169	177.45	186.32
238.	C00007NW, M00002NW	11838.2	Guerneville Rd/Coffey Ln	7689.568359	4148.62207	432.84	454.48	477.2
239.	C00008NW, I00001NW	2188.3	Steele Ln/Coffey Ln/North Coast St	1649.111328	539.22168	136.43	143.25	150.42
240.	C00009NW, C00010NW, C00011NW, I00017NW	4883.4	Guerneville Rd/Range Ave/W Steele Ln	4006.573242	876.805664	282.36	296.48	311.3
241.	C00012NW, C00013NW, C00014NW, C00015NW	4326.2	Range Ave/Piner Rd	0	4326.176757	193.46	203.13	213.28
242.	C00016NW, C00017NW, C00018NW, C00019NW	6977.3	Cleveland Ave/Industrial Dr	0	6977.291016	252.82	265.47	278.74
243.	C00020NW, I00019NW	2682.3	Cleveland Ave/Ripley St	2033.274414	649.053711	149.11	156.57	164.4

Base Bid Parks Roadway Maintenance
Exhibit C: Compensation Schedule

244.	C00021NW, C00022NW, I00018NW, M00012NW	4218.1	Cleveland Ave/W Steele Ln/Guerneville Rd	1139.413086	3078.679687	244.83	257.07	269.93
245.	C00023NW	339.9	W 3rd St/Roberts Ave	0	339.876953	75.9	79.69	83.68
246.	C00025NW, M00017NW	9769.2	Fulton Rd/Chatham Dr	7153.151367	2616.00879	336.37	353.19	370.85
247.	C00027NW, I00020NW, I00021NW	3427.2	Fulton Rd/Guerneville Rd	2997.071289	430.143555	220.95	232	243.59
248.	C00028NW , I00015NW, I00016NW, I00022NW	5910.9	Stony Point Rd/W 3rd St	5910.858398	0	373.67	392.36	411.97
252.	C00035NW	395.5	Piner Rd/Smart Train	0	395.512695	76.74	80.58	84.61
253.	F00002NW	16943.9	Barnes Rd/Hopper Ave	8777.147461	8166.77832	296.04	310.84	326.38
254.	F00007NW	5368.5	Coffey Ln/San Miguel Rd	4325.640625	1042.856445	191.83	201.42	211.49
255.	F00008NW	1896.0	Coffey Ln/Walnut Creek Rd	1539.969727	356.046875	90.01	94.51	99.23
Northwest Quadrant								
Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable	Monthly Cost Year 1	Monthly Cost Year 2	Monthly Cost Year 3
257.	F00010NW, F00011NW	23384.2	Piner Rd/Kirkhill St	14039.98828	9344.220703	516.78	542.62	569.75
258.	F00012NW, F00013NW, F00014NW	35720.4	Piner Rd/Peterson Ln	27041.66504	8678.75586	925.41	971.68	1020.27
259.	F00015NW	30396.5	Piner Rd/Fulton Rd	22969.55371	7426.983398	766.53	804.86	845.1
260.	F00016NW	67115.7	Piner Rd/Fulton Rd	52744.38379	14371.36426	1343.38	1410.55	1481.08
261.	F00017NW, F00018NW	14305.1	Fulton Rd/Wishing Well Way	10155.87891	4149.238282	368.06	386.46	405.78
264.	F00023NW, F00024NW, M00020NW	25403.8	Guerneville Rd/Gamay St	18099.05859	7304.718749	710.84	746.39	783.71
265.	F00025NW, F00026NW, M00019NW	36585.7	Guerneville Rd/Gamay St	23920.27149	12665.41016	909.04	954.49	1002.22
266.	F00027NW, M00018NW	13816.3	Guerneville Rd/Covent Garden	9000.478516	4815.771485	386.1	405.41	425.68
267.	F00028NW, F00029NW, F00030NW, M00028NW	20323.4	Guerneville Rd/Centurion Dr	13178.60352	7144.766601	547.68	575.06	603.82
268.	F00031NW, F00032NW	8780.2	Fulton Rd/Green Vale Ct	6643.166992	2137.008789	294.79	309.53	325
269.	F00033NW, C00026NW	26870.9	Fulton Rd/Fulton Pl	20471.23047	6399.673828	478.07	501.98	527.08
270.	F00034NW	9225.1	W College Ave/W Cottage Pl	6645.833984	2579.307617	240.72	252.76	265.4
271.	F00036NW	2068.2	W College Ave/Putney Dr	1679.717773	388.454102	113.29	118.96	124.9
273.	F00039NW, F00040NW, F00041NW	13252.1	College Ave/Tyara Way	9284.117187	3968	376.24	395.05	414.81
274.	F00042NW, C00001NW, I00002NW	14865.7	N Dutton Ave/W College Ave	11180.06152	3685.610352	336.29	353.11	370.76

Base Bid Parks Roadway Maintenance
Exhibit C: Compensation Schedule

275.	F00043NW, I00004NW, I00005NW, M00015NW	20349.2	W 3rd St/Fulton Rd	17435.18457	2914.028321	531.79	558.38	586.3
276.	F00045NW, I00010NW, I00011NW, I00012NW	33957.8	W 3rd St/Malibu Cir	30321.71094	3636.064453	940.7	987.73	1037.12
Northwest Quadrant								
Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable	Monthly Cost Year 1	Monthly Cost Year 2	Monthly Cost Year 3
277.	F00046NW	16471.1	W 3rd St/Rusch Dr	11826.11816	4644.960938	343.14	360.29	378.31
278.	F00047NW	34358.8	Occidental Rd/Nicholas St	14025.49414	8056.688477	542.52	569.65	598.13
279.	F00048NW	25728.3	Occidental Rd/Yonkers St	20101.21289	5627.104492	634.88	666.62	699.95
280.	M00014NW	65690.4	Fulton Rd/Darla Dr	65021.21	669.21	264.13	277.33	291.2
281.	I00006NW, I00023NW	18693.8	W 3rd St/Darla Dr	8383.446289	0	446.48	468.81	492.25
282.	I00007NW, I00008NW, I00009NW	17505.2	W 3rd St/Valley West Dr	18693.79785	0	468.88	492.33	516.94
283.	I00013NW, I00014NW	13800.8	W 3rd St/Harvest Ln	17505.24414	0	368.02	386.42	405.74
284.	M00001NW	776.1	Sundance St/Holiday St	13800.81055	0	75.61	79.39	83.36
285.	M00003NW, M00007NW, M00008NW	1861.6	Stony Point Rd/W 9th St	1013.083008	848.527344	284.26	298.48	313.4
286.	M00004NW, M00005NW, M00006NW, I00003NW	9272.8	W 9th St/W 8th St	3341.517578	3629.991211	374.94	393.68	413.37
287.	M00013NW	6163.9	Fulton Rd/ San Pedro Dr	8464.494141	808.28125	199.73	209.72	220.2
288.	M00016NW	7885.0	Fulton Rd/Hall Rd	5160.509766	1003.370117	232.11	243.72	255.9
290.	M00029NW	2184.7	3rd St/Wilson St	1073.067383	501.410156	144.44	151.66	159.25
294.	C00057NE, C00058NE	935.0	Santa Rosa Ave/Pine St	0	935	71.7	75.28	79.05
295.	M00073NW, M00074NE, M00075NE	3008.0	Santa Rosa Ave/Charles St	2083	925	196.95	206.8	217.14
Total		710139.3		532525.7	171420.6			
Subtotal Annual Cost Northeast Quadrant						\$ 155,390.76	\$ 163,160.52	\$ 171,318.24
Subtotal Annual Cost Southeast Quadrant						\$ 92,868.84	\$ 97,512.12	\$ 102,388.44
Subtotal Annual Cost Southwest Quadrant						\$ 39,712.20	\$ 41,697.84	\$ 43,782.72

Base Bid Parks Roadway Maintenance

Exhibit C: Compensation Schedule

Subtotal Annual Cost Northwest Quadrant	\$ 219,994.20	\$ 230,994.36	\$ 242,543.88
Total Cost of Work for 12 months	\$ 507,966.00	\$ 533,364.84	\$ 560,033.28
Exhibit C1 Grand Total	\$ 1,601,364.12		

Optional Fountaingrove Corridor Parks Roadway Maintenance
Exhibit C1: Compensation Schedule

Exhibit C2 contains a list of all sites associated with the Scope of Work and a location for the Contractor's bid. The Bid Cost shall be the annual cost to perform the Scope of Work for each location. Contractor is responsible for verifying their Bid is accurate, prior to submittal.

Fountaingrove Corridor								
Map #	Landscape Units Included	Sq. Feet Total	Cross Streets	Sq. Feet Permeable	Sq. Feet Impermeable	Monthly Cost Year 1	Monthly Cost Year 2	Monthly Cost Year 3
143.	M00011NE	11553.19922	Fountaingrove/Parker Hill	9320.335938	2232.863281	421.49	442.52	464.65
144.	M00012NE, M00013NE	31554.02344	Fountaingrove/New Gate Ct	25355.77246	6198.250976	1004.7	1054.93	1107.68
145.	M00014NE	42669.18262	Fountaingrove/Rincon Ridge	35504.41602	7164.766602	1209.78	1270.27	1333.78
146.	M00015NE	17284.37695	Fountaingrove/Sedgemoore Dr	10434.82422	6849.552734	458.64	481.57	505.65
147.	M00016NE, M00017NE	35613.42774	Fountaingrove/Boulder Pt	25559.28711	10054.14063	941.7	988.78	1038.22
148.	M00018NE	34279.12988	Fountaingrove/Hadley Hill Dr	28245.87402	6033.255859	1020.02	1071.02	1124.58
149.	M00019NE, M00020NE	24855.21387	Fountaingrove/Day Break Ct	19673.66992	5181.543945	789.8	829.29	870.75
152.	M00067NE	13893.04688	Fountaingrove/Stage Coach	12903.75977	989.287109	603.23	633.4	665.07
153.	I00014NE, M00039NE	8754.80957	Fountaingrove/Thomas Lake Harris	8088.682617	666.126953	443.21	465.37	488.64
154.	M00040NE	4379.353516	Fountaingrove/Fir Ridge Dr	3095.041016	1284.3125	254.41	267.13	280.49
177.	M00046NE, M00047NE	12721.75293	Fountaingrove Blvd/Varenna	7284.851562	5436.901367	439.18	461.15	484.21
Total		237557.5		185466.5	52091.0			
Subtotal Annual Cost Fountaingrove Corridor						\$ 7,586.16	\$ 7,965.43	\$ 8,363.72
Total Cost of Work for 12 months						\$ 91,033.92	\$ 95,585.16	\$ 100,364.64
Exhibit C2 Grand Total								\$ 286,983.72

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	1 of 23

BACKGROUND:

The City of Santa Rosa (City) has responsibility for the maintenance of land and landscapes in City parks, open space areas, traffic islands, road frontages, city buildings, plazas, parking lots, drainage channels, creeks, pump stations, water tanks, and rural sites. Inherent in this responsibility is the management of pests, including unwanted plants, insects, rodents, and fungus. Pests are controlled for assorted reasons including public safety, public health, plant health, aesthetic, and control of invasive plants, pathogenic organisms and/or insects.

The need for a city-wide Integrated Pest Management (IPM) Program is identified in the Russian River Friendly Landscape Guidelines (RRFLG). The RRFLG guidelines set forth seven best practices for managing landscapes in a sustainable manner, which include: landscaping for local conditions, developing and maintaining landscapes that generate less waste for landfills, nurturing the soil, conserving water and energy, protecting water quality and air quality, and creating and protecting wildlife habitat. An effective IPM program is a good start to developing sustainable landscapes.

PURPOSE:

The purpose of this IPM Policy is to attain the City's goal of using long-term pest management strategies that protect human health, the environment and non-target organisms. This Policy provides guidelines for a City-wide IPM program and establishes standardized protocols for the management of pests.

The goals of this IPM Policy are as follows:

- Eliminate the need to use pesticides in sensitive areas like playgrounds, picnic areas, and public gathering spaces. Reduce the use of pesticides throughout city landscapes including roadway medians and parking areas.
- Provide for the utilization of alternatives to chemical control methods in the control of pests.
- Where chemical treatment control methods become the only effective tool to manage a pest, select the "least-toxic" pesticides that will provide acceptable control of the pest.
- Ensure safe application of pesticides following best management practices.
- Provide appropriate pre-and post-notification of pesticide application in parks and other areas where the public may be affected.
- Ensure pesticide usage does not threaten water quality.
- Ensure pesticides are not applied within the storm drain system including drainage ditches and low-impact development strategies.
- Ensure that no banned or unregistered pesticides are stored or applied.

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	2 of 23

- Ensure staff applying pesticides are certified in the appropriate category by the California Department of Pesticide Regulation or are under the direct supervision of a pesticide applicator certified in the appropriate category.
- Implement procedures to encourage the retention and planting of native or drought-tolerant vegetation to reduce water, pesticide, and fertilizer needs.
- Reduce the use, storage, and handling of hazardous pesticides to reduce the potential for spills.
- Report all pesticide use by City staff and contractors working on City-owned property annually as a part of the annual Stormwater Report. Information on pesticide use will be presented to the public on the City’s webpage devoted to IPM.

DEFINITIONS

- 1) **Action Threshold** is an observable condition or set of conditions that must be present before a pest control method can be initiated. Action thresholds are calculated to initiate a specific pest control method(s) when it will be effective in keeping the pest population below an injury level. Typical action thresholds found in this program include:
 - a) Observing the pest in a specified abundance.
 - b) Observing a specified amount of pest damage.
 - c) Observing specific environmental conditions favorable pest environment
- 2) **Fungicide** is a pesticide, synthetic or organic, that controls fungus.
- 3) **Glyphosate** is an active ingredient found in many widely used herbicides that can kill certain weeds and grasses. Common herbicides that have glyphosate in them are Roundup and Rodeo.
- 4) **Herbicide** is a pesticide, synthetic or organic, that controls weeds.
 - a) **Selective herbicides:** Chemicals that kill specific types of plants, such as grass plants or broadleaf plants.
 - b) **Nonselective herbicides:** Chemicals that kill all types of plants.
 - c) **Contact herbicides:** Chemicals that kill the plant only where the chemical touches it. To be effective, the entire plant must be thoroughly covered with the product. They are quick-acting and useful in controlling annuals, biennials, and seedling perennials.
 - d) **Systemic herbicides:** Chemicals that are absorbed through the leaves or roots and move freely throughout the plant. Application to part of the plant will kill the entire plant. Systemic herbicides are effective against most plants and are recommended for perennials. They take time to be effective and may be soil- or foliage-applied.
 - e) **Soil-applied materials** may be selective or nonselective, depending upon the material and the rate of application. Primarily used for preemergent applications.
- 5) **Insecticide** is a pesticide, synthetic or organic, that control insects.
- 6) **Integrated Pest Management (IPM)** is a pest management strategy that focuses on long-term prevention or suppression of pest problems with minimum impact on human health, the environment and non-target organisms. These strategies require the selection, integration and implementation

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	3 of 23

of various pest control techniques considering the various economic, ecological, and sociological consequences. The most effective ways to manage pests use a combination of four control categories: biological, cultural, mechanical/physical, and chemical.

- a. **Cultural controls** are management practices that reduce the incidence of weed infestations by using proper planting times and planting rates, planting mulching, managing fertilization and irrigation to favor desired plants rather than weeds.
 - b. **Mechanical/Physical controls** physically disrupt the weed by hand-pulling, hoeing, mowing, tilling, and flooding.
 - c. **Biological control** is the use of a living organism to manage pests.
 - d. **Chemical control** involves the use of herbicides, synthetic or organic, to manage pest plants.
- 7) **Neonicotinoid** pesticides are a class of neuro-active insecticides that kill a wide-variety of insects. Plants sprayed with these insecticides uptake the active ingredient and convey the poison to any insect that feeds on the plant, including non-target species like bees as they pollinate the plant.
 - 8) **Organic**, in horticultural terms, is defined as a method of growing or maintaining ornamental or food plants without the aid or application of synthetic chemicals (fertilizers, pesticides, hormones, etc.).
 - 9) **Organic Materials Review Institute (OMRI)** is an international nonprofit organization that determines which input products are allowed for use in organic production and processing. OMRI Listed® products are allowed for use in certified organic operations under the USDA National Organic Program.
 - 10) **Personal Protective Equipment (PPE)** is worn to minimize exposure to hazards. Examples in pesticide applications include chemical resistant gloves, eye protection, and disposable chemical resistant suits.
 - 11) **Weeds** are unwanted vegetation or a plant that is not valued where it is growing and is usually of vigorous growth; especially one that tends to overgrow or choke out more desirable plants. Weed Control is most effective when it includes several strategies.
 - 12) **Weed prevention** includes using transplants, amendments and mulches that are known to be weed-free and cleaning vehicles and equipment to prevent the spread of weed seed and weed plant parts from one area to another. Prevention also includes removing weeds before they can form seed heads or spread by other methods.

POLICY:

City staff and contractors performing pest control work for the City in landscaped areas must follow the IPM Policy and guidelines as set forth. This Policy sets forth prohibitions on the use of neonicotinoid-containing pesticides and glyphosate-containing herbicides including, but not limited to: Roundup, Rodeo, and Ranger. Specific management actions for common pest species and specific action thresholds are described in detail in Appendix A. The pest control methods established by this Policy shall be used only if evaluation indicates they are needed, or impacts have surpassed thresholds described in Appendix A. Treatments shall be performed with the goal of removing only the target

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	4 of 23

organism. Pest controls shall be selected and applied to minimize risks to human health, non-target organisms, and the environment, and pesticides shall be selected that do not threaten water quality. The higher the potential for human, animal, or water exposure in an area, the more vital it is to use a very low-hazard pest management material.

All pesticide treatments are prohibited within dog parks, children's playgrounds, group picnic areas, creeks and bio-swales or bio-retention areas. For shared school-park sites, and parks with childcare or pre-school buildings, pesticide treatments must only be applied on days when students are not present. Pesticide applications must follow all provisions of the Healthy Schools Act (California Education Code Sections 17608-17613) including recordkeeping, posting, and pesticide use reports.

Exceptions to glyphosate prohibition

Glyphosate may be used in specific instances as follows:

- In medians and parking areas where impact to the public is at a minimum.
- In cases where the Fire Marshal or Police Chief has determined it is necessary for public safety.
- On ball fields when the fields are closed for renovations.
- On invasive plants where control would only be needed to remove the existing plants and allow the natural plant community to occupy the landscape.

Special conditions when applying glyphosate

City staff and contractors utilizing glyphosate compounds must use increased PPE including, at a minimum: chemical resistant gloves, protective eyewear, chemical resistant boots, and a disposable chemical resistant suit that covers the applicators' clothes and exposed skin (e.g., Tyvek coveralls with a hood).

Procedures

The following recognized IPM techniques shall be used to control pests. In the management of a pest, as many of these methods as necessary shall be used.

Monitoring

- Establish action threshold levels for pest damage, injury, or nuisance.
- Identify pests and beneficial species and track population levels.
- Review site history to determine past control activities.
- Plan and schedule any treatment option at the target pest's most vulnerable stage.

Mechanical/Physical

- Barriers to exclude entry or introduction of pests. Inspecting new plants before being planted.
- Use of mulch materials or weed fabric.
- Controlled burning.

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	5 of 23

- Solarizing/tarpping to treat seedbank.
- Use of traps.
- Whitewashing trunks of young trees to prevent sunscald.
- Use of discs, weed mowers, string weed trimmers, hoes and hand pulling of weeds.
- Removal of infested plants or plant parts (except for rare and endangered and culturally historical significance).
- Thinning of a tree or shrub to improve air circulation in the canopy.
- Thinning of canopies to increase temperatures for insect control.

Cultural

- Selecting plant materials suited to the site and/or those that have natural pest resistance.
- Providing conditions conducive to healthy plant growth.
- Designing and adjusting irrigation system.
- Ensuring proper soil fertility through mulching, compost, or appropriate fertilizer, avoiding nutrient deficiencies and excesses. Health desired plant that will out compete unwanted weed pests.

Biological

- Use of cattle, sheep, goats, or other grazing animals.
- Encouraging plant diversity to provide food and habitat for beneficial species.
- Maintaining existing populations of beneficial organisms.
- Supplementation of beneficial populations through releases.
- Use of “biological” or non-chemical pesticides.

Chemical

- Use of least-toxic pesticides and the lowest recommended label rate to achieve control.
- Selection and use of products, synthetic or organic, that provide acceptable control with consideration given to human health and environmental effects.
- Proper timing of pesticide application
- Spot treatments.

Landscape Design Considerations

Prevention is the single most critical component of landscape IPM. Recognizing the potential for future pest problems when designing or modifying a site can minimize and even eliminate many pest problems. Those design considerations include:

- Proper site preparation.
- Properly designed irrigation system.
- Selection of plant materials suited to the site and climate.

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	6 of 23

- Selection of plant materials with pest tolerance or resistance.
- Use of hard surfaces to eliminate weed problems.
- Use of densely growing plants that will choke out weed growth.

Pest Control Recommendation

Any time that a chemical control measure is warranted, regardless of threshold levels, a least-toxic pesticide will be considered first. Follow-up instructions will take place at specific intervals or pre-determined times to evaluate control.

Applicator Training

Continuing education is required by law for Pest Control Advisors and Qualified Applicators to keep their licenses and certificates current. This education is in the areas of laws and regulations and pest control methods and is offered through seminars approved by the State Department of Pesticide Regulation. Personnel involved in pesticide handling and application activities are required by law to have annual training on the safe and proper handling of pesticides. By law, employees and contractors are required to follow product label instructions and to confine sprays to the site being treated. Treat only the smallest area necessary by treating only the targeted pest. Do not allow pesticide to drift away from target areas. Unregistered pesticides shall not be used.

Maintenance Staff Training

The success of any IPM program is dependent on the skills and knowledge of those involved with its implementation. Information and training are to be provided for all maintenance staff and will include:

- Principles and components of IPM.
- Management strategies regarding pests common to all areas.
- Management strategies regarding specific pests to specific areas.
- Non-chemical pest control techniques.

Public Education and Notification

To ensure that the public and City staff are aware when pesticides are to be used in parks, public building landscapes, or roadways, any of the following methods or combinations of methods are to be utilized:

- Signs
- Isolation, in combination with signs
- Blue indicator dye in spray mix
- Media sources/neighborhood notification

Signs

Posting signs is intended to warn individuals that a pesticide application is planned or recently occurred. Signs shall be posted at public entries to sites such as gates and walkways. If the location is not publicly

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	7 of 23

accessible or not intended for public recreation use, signs may be fewer. Posting duration shall comply with the State Healthy School Act where adjacent to schools. In other locations signs shall be posted a minimum of 48 hours prior to the start of the pesticide application and will remain posted for a minimum of 48 hours after the application unless the pesticide label specifies a longer interval. At a minimum, public notification signs shall include the following information:

- Printed in English and Spanish.
- Date and time of planned application.
- Area(s) within a site to be treated.
- Pest, i.e., “weeds.”
- Label name of the product being used.
- Warning to stay out of treated areas for a specific time. Use the produce label as to when re-entry into the treated area(s) is permitted.
- A departmental phone number to call for more information.

Record Keeping and Reporting

Recording of the pesticide application will be completed and maintained by the applicator and reviewed by the individual departments or division overseeing the application or the city representative overseeing the application contact.

Applicator’s departments will make monthly use reports to the Sonoma County Agricultural Commissioner by the 10th of the month following application. In addition, annual pesticide use reports will be sent to the city’s Stormwater and Creeks team for publishing in the annual city- wide annual report. These records are to include:

- Date and time of application.
- Brand name of the pesticide.
- Target pest(s).
- Amount of pesticide used.
- Concentration of pesticide used.
- Quantity of area treated (e.g., acres or square feet).
- Name (or initials) of applicator.
- Location application was made (location, specific site within a park, etc.).

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	8 of 23

APPENDIX A
CITY INTEGRATED PEST MANAGEMENT POLICY

PLANT DISEASE MANAGEMENT

With few exceptions, plant diseases do not constitute a severe enough problem to require extensive control efforts. Leaf blights caused by anthracnose, powdery mildew and entomosporium leaf spot can occur on several of our city’s tree and shrub species and can at times cause severe and repeated defoliation. These problems are weather dependent. That is, they spread during specific weather conditions. When weather conditions change, the disease subsides, and the problem resolves itself. While control can be achieved chemically, it would typically require many repeat applications during these specific weather conditions. Because of these factors a non-chemical approach is utilized with these diseases; no action thresholds set for parks with the exception being Luther Burbank Home & Gardens. (See Luther Burbank Home & Garden Pest Management Action Thresholds table below.)

ANIMAL PEST MANAGEMENT

Insects

Insect pest management involves controlling damaging insects and those causing nuisance problems. These pests can cause significant flower and foliar damage, physically weaken plants, spread disease, and provide opportunities for disease and other insects to invade plants. Although control can be achieved through a variety of methods, focus on plant health resolves most cases.

The typical insect pest problems found in the city involve only a few insect pests and a handful of plant species. Whether this is fully attributable to beneficial insect diversity or because the plants that remain are those that suffer fewer insect pest problems and/or can tolerate higher insect populations is not known.

Mechanically, pests and/or infested plant parts should be removed by hand when possible. Removal of “brood wood” is effective in controlling certain insect species. Periodic, high pressure water washes can be used when insect populations are low.

Culturally, maintenance of plant health is of foremost importance in insect pest control. Properly cared for plants are less stressed and therefore less susceptible to insect (and disease) attack. Along the same lines, plant materials should be selected with care, matching species to conditions present at the site.

Biologically, beneficial insects provide the single greatest effort in controlling plant pests. This has resulted in few insect pest outbreaks, many of which require no attention on our part. Maintenance of

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	9 of 23

beneficial insects is the key to controlling pest problems. This is accomplished by encouraging additional beneficial insects' habitat.

Chemicals may be a directive of the City Council, County or State for public health or neighboring economic crop loss reasons. Those pesticides that are reduced risk are to be considered first. The use of attractants in conjunction with traps can be used, though this approach is most effective in dealing with specific pests and best used when monitoring pest levels. No action thresholds are necessary, currently, for park lands except for Luther Burbank Home & Gardens. (See Luther Burbank Home & Garden Pest Management Action Thresholds table).

Bees

Bees are a beneficial insect of immeasurable value because of their pollination efforts. Bees in general are not viewed by the city as threatening though bee stings are painful and cause extreme allergic reactions in some people. Management activities are designed to eliminate plant materials that are attractive to bees.

Where possible, every effort should be made to preserve bee populations in physical activities and in the selection and use of pesticides. Occasionally situations arise when the removal of a hive by a beekeeper is necessary.

Wasps, hornets, yellowjackets

These groups of stinging insects are collectively known as wasps. Most of these species are beneficial in they are predatory on soft-bodied insects and are best known for their aggressive, unwanted behavior. Their stings are painful and can cause extreme allergic reactions. Yellowjackets may reach nuisance level in parks during the late summer and fall. The Marin/Sonoma Mosquito & Vector Control District is currently offering nest eradication for clearly identified yellowjacket ground nest.

Digger bees (digger wasps, sand wasps)

This is an interesting insect closely related to the wasp group. They are found in large colonies in most of the sand play areas in our parks. This beneficial insect looks and behaves like a yellow jacket and can be a cause for alarm. Though fully capable of stinging, this insect is not aggressive and is no cause for concern. Manage by regularly racking playground sand areas to disturb and discourage nesting activities.

Spiders

This county has many spider species found in a variety of habitats. The black widow spider is also beneficial though its bite is painful and can be fatal. Control of black widow spiders is rarely warranted and more often when single female is found, it is eliminated via mechanical means.

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	10 of 23

Gophers & Moles

While gopher and mole are quite different in appearance, diet, and behavior, both are burrowing rodents that damage the landscape. Gophers create the greatest landscape damage by digging subterranean tunnels. Gophers also gnaw and damage plastic water lines and lawn systems. Their tunnels can divert irrigation water and destroy layers of soil in athletic fields, such as the soccer fields at A Place to Play Park. Gopher mounds in park turf grass areas interfere with mowing equipment and are oftentimes enlarged by dogs creating larger holes. Collapsed tunnels are another tripping hazard in turf grass. Gophers can also undermine structural integrity of dam and levee surfaces by increasing infiltration into the dam face which increases chance of dam failures. Most of the city’s dams fall under regulations by the California Department of Water Resources’ Division of Safety of Dams. It is imperative to reduce costly gopher damage by eradication prior to establishment within turf fields and dam surfaces. Refer to UC IPM Pocket Gopher for more information about life cycles and management tips.

Ground Squirrels

Ground squirrels injure many types of plants, harbor diseases harmful to humans, and their burrowing damages landscapes. Ground squirrels are common in this area and large colonies exist at Howarth Park. Their nest hole burrow can get quite large, having the potential to be a trip hazard and cause soil erosion issues. Abundant population can lead to unnatural, aggressive food stealing interaction with humans. Ground squirrels present a potential for catastrophic hazards if allowed to burrow in the Lake Ralphine dam at Howarth Park or the two dams at Fountaingrove Lake within Nagasawa Park. The State Division of Safety of Dams requires eradication of burrowing animals. Refer to UC IPM Ground Squirrels for more information about life cycles and management tips, <http://ipm.ucanr.edu/QT/groundsquirrelcard.html>.

LUTHER BURBANK HOME & GARDENS

The Luther Burbank Home & Gardens (Gardens) is a two-acre site in downtown Santa Rosa that was Burbank’s residence and where he conducted a large part of his plant research. This site is a Registered National Historic Landmark and is visited by thousands of people from around the world annually.

The gardens offer a glimpse at the wide variety of plant materials with which Burbank worked. These are displayed in demonstration gardens throughout the site and include species he worked with and varieties representative of those he developed. Other garden displays include a drought tolerant garden, sensory garden with plants selected for touch and smell qualities, a garden designed to attract birds and a border garden that illustrates the plant materials used for landscaping in Burbank’s day.

Because of the amount and variety of landscape materials found in the Gardens, insect pests and plant disease levels can reach elevated levels quite rapidly. Insect pests rarely reach levels needing chemical treatment because this wide plant diversity supports many beneficial insects. Plant diseases, however,

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	11 of 23

can and do reach damaging levels quite rapidly. Fortunately, most of these diseases are host specific and do not spread between different plant species.

Many of the maintenance activities inside the Gardens are thankfully performed by a large contingent of knowledgeable volunteers whose various tasks include hand removal of pests and plant parts that infested or infected with insects or disease. Additionally, these volunteers can provide the visitor with valuable horticultural information including IPM.

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	12 of 23

ACTION THRESHOLDS CHARTS

**VEGETATION MANAGEMENT
ACTION THRESHOLDS
GENERAL LANDSCAPED AND OFFICE BUILDING AREAS**

LOCATION	ACTION THRESHOLD	ACTION
All areas of city responsibility.	Weeds covering 10% or less of the ground where not desired.	<p>Mechanically remove.</p> <p>Use weed burner.</p> <p>Where possible, add mulch to a minimum depth of 4 inches.</p> <p>Consider the use of densely growing plant materials.</p>
	Weeds cover more than 10% of the ground where not desired.	<p>Any of the above non-chemical tactics.</p> <p>Spot treat with appropriate herbicide.</p>
	Weeds cover 5% or less of the ground in planter beds.	<p>Mechanically remove.</p> <p>Use weed burner.</p> <p>Where possible, add mulch to a minimum depth of 4 inches.</p> <p>Consider the use of densely growing plant materials.</p>

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	13 of 23

	Weeds cover more than 5% of the ground in planter beds.	Any of the above non-chemical tactics. Spot treat with appropriate herbicide.
	Any area historically requiring weed control measures.	Spring and/or Fall application of pre-emergent herbicide.

VEGETATION MANAGEMENT
ACTION THRESHOLDS
TURF AREAS

LOCATION	ACTION THRESHOLD	ACTION
All turf areas.	Broadleaf or grassy weeds cover less than 20% of the turf area.	Observe proper mower sanitation. Remove mechanically. Re-evaluate cultural practices, test soil fertility.
	Broadleaf or grassy weeds cover 20% or more of the turf area.	Any of the above tactics. Spot treat with appropriate herbicide.
Turf edges that can be edged with power edger.	Any time edging is necessary.	Use power edger.
Turf edges that cannot be edged with power edger.	Turf growing up to 3 inches over pavement edge.	Remove mechanically. Use weed burner.
	Turf growing more than 3 inches over pavement edge.	Any of the above tactics.

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	14 of 23

		Spot treat with appropriate herbicide.
Turf irrigation heads	Turf growing around head causing water to pond or other disruption of proper operation.	<p>Mechanically remove.</p> <p>Vertical mow to remove built-up thatch.</p> <p>Raise head in extreme case.</p>

VEGETATION MANAGEMENT
ACTION THRESHOLDS
ATHLETIC FIELDS

LOCATION	ACTION THRESHOLD	ACTION
All areas of city responsibility.	Winter weed removal for pre-season preparation of baseball and softball fields.	<p>Mechanically remove weed growth with field drags.</p> <p>Spot treat with appropriate herbicide.</p>
	Turf encroached up to 12 inches into bare areas of ball diamonds.	<p>Mechanically remove.</p> <p>Use weed burner.</p>
	Turf encroached 12 inches or more into bare areas of ball diamonds.	<p>Any of the above tactics.</p> <p>Spot treat with appropriate herbicide.</p>
	30% of field lines have unwanted regrowth.	<p>Mechanically remove.</p> <p>Spot treat with appropriate herbicide.</p>

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	15 of 23

MISCELLANEOUS AREAS

LOCATION	ACTION THRESHOLD	ACTION
Asphalt or concrete roads, pathways, parking areas or other paving and hard surfaces.	Weeds growing in joints or cracks.	Mechanically remove. Use weed burner. Any of the above tactics. Spot treat with appropriate herbicide.
Surplus properties, roadsides, pathways, other R-O-W sites such as fire hydrants traffic signal control boxes.	Weeds & other unwanted vegetation cover less than 25% of the area.	Mechanically remove. If possible, add mulch to a minimum depth of 4 inches.
	Weeds & other unwanted vegetation cover 25% or more of the area.	Any of the above tactics. Treat with appropriate herbicide.

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	16 of 23

**ACTION THRESHOLDS
TRAFFIC MEDIANS**

LOCATION	ACTION THRESHOLD	ACTION
All traffic medians.	Weeds cover 5% or less of the surface of landscaped median.	Mechanically remove. Use weed burner. Add mulch to a minimum depth of 4 inches. Consider the use of densely growing plant materials.
	Weeds cover more than 5% of the surface of landscaped median.	Any of the above tactics. Treat with appropriate herbicide.
	Weeds cover 10% or less of the surface of non-landscaped median.	Mechanically remove. Use weed burner. Add mulch to a minimum depth of 4 inches. Consider the use of densely growing plant materials.
	Weeds cover more than 10% of the surface of non-landscaped median.	Any of the above tactics. Treat with appropriate herbicide
	Weeds in the concrete cracks/joints of any median cover less than	Mechanically remove. Use weed burner.

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	17 of 23

	5% of the area or are less than 6 inches in height.	
	Weeds in the concrete cracks/joints of any median cover 5% or more of the area or are 6 inches or more in height.	Any of the above tactics. Treat with appropriate herbicide.

VEGETATION MANAGEMENT
 ACTION THRESHOLDS
 POISON OAK - BLACKBERRIES - UNWANTED TREES/SHRUBS

LOCATION	ACTION THRESHOLD	ACTION
All areas of city responsibility.	Poison oak growing in any area with potential for contact.	Remove mechanically.
		Treat regrowth with appropriate herbicide.
		Treat regrowth with appropriate herbicide.
	Blackberry thicket to be partially or fully removed.	
	Blackberries growing in landscaped areas.	
	NOTE: When chemical treatment of blackberries is warranted, non-fruiting canes may be treated at any time. Any stands containing fruiting canes can only be treated after all fruit has dried.	
	Unwanted weed species; tree or shrub.	Remove mechanically.
		Remove stump.
		Treat stump and regrowth with appropriate herbicide.

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	18 of 23

AQUATIC WEEDS		
LOCATION	ACTION THRESHOLD	ACTION
Boat launches, dams, spillways and around fish pier at Howarth Park/Lake Ralphine, Nagasawa Park/Fountaingrove Lake and Francis Nielsen Ranch Park/ Nielsen Pond, Meadowlane Ponds, Delta Pond, Brown Farm Pond, Alpha Farm Ponds, and Ambrosini Pond.	Eurasian water milfoil growing to within 18 inches of water surface.	Treat with appropriate herbicide per Fish & Wildlife and/or Water Board permit. Explore viable biological and mechanical control methods.
	Less than 1% coverage Cattails, bulrush, and other tules weeds growing on the dams, near spillways, boat ramps, areas creating mosquito habitat and areas where summer flows are restricted which may cause siltation increases chance of winter flooding.	Evaluate site for modifications, such as dredging. Mechanically remove when water levels are at their lowest in the late summer. Treat regrowth with appropriate herbicide in spring.
	Floating weeds such as mosquito fern (<i>Azolla</i> spp.), duckweeds (<i>Lemna</i> spp. & <i>Spirodela</i> spp.) and Watermeal, (<i>Wolffia</i> spp.) covering 5% of the water surface.	Mechanically remove by netting and hauling-off. Treat with appropriate herbicide allowable by permit.
	Blue algae and other algae species.	Aerate or increase water circulation. Biological treatment of beneficial bacteria. Physical application of aquatic black pond dye to

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	19 of 23

		reduce sunlight penetration.
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**GOPHER & MOLE PEST MANAGEMENT
ACTION THRESHOLDS**

LOCATION	ACTION THRESHOLD	ACTION
All areas of city responsibility.	Evidence of mole is observed.	Physically remove mole. Trap; to be set only where it can be done safely.
	1 gopher mound in any turf area, annual planting bed, or dam structure OR 10 mounds in any 1,000 square feet of planted areas OR 20 mounds in any 1,000 square feet of non-planted areas.	Trap in turf non-layer athletic fields. Bait or fumigate in athletic fields and dam structures. Provide control of broadleaf weeds if in turf.

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	20 of 23

**GROUND SQUIRREL PEST MANAGEMENT
ACTION THRESHOLDS**

LOCATION	ACTION THRESHOLD	ACTION
All areas of city responsibility.	Any ground squirrel burrows entrance that is a hazard.	Fill in burrow entrance. Bait; stations to be safely set within burrow.
	Any ground squirrel burrowing within 50 feet of the base of dam at Lake Ralphine.	Bait; stations to be safely set within burrow.

**LBH&G PEST MANAGEMENT
ACTION THRESHOLDS**

LOCATION	ACTION THRESHOLD	ACTION
ROSES	RUST: susceptible varieties showing 15% of foliage infected with rust, OR Weather conditions favor development of disease; 55-75°F and wet foliage.	Provide proper soil moisture and fertility. Remove infected plant parts including those which have fallen. Remove infected canes when dormant pruning. Avoid overhead watering. Treat with fungicide. Apply fungicide with dormant spray.

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	21 of 23

		Replace with resistant varieties.
	BLACKSPOT: Susceptible varieties showing signs of infection on 10% of foliage, OR Weather conditions favor development of disease; 55-75°F and wet foliage.	Provide proper soil moisture and fertility. Remove infected plant parts including those which have fallen. Remove infected canes when dormant pruning. Avoid overhead watering. Treat with fungicide. Apply fungicide with dormant spray. Replace with resistant varieties.

LOCATION	ACTION THRESHOLD	ACTION
ROSES, ZINNIA, DAHLIA, CALENDULA, OTHER SUSCEPTIBLE BEDDING PLANTS.	POWDERY MILDEW: Susceptible varieties showing signs of infection on 10% of foliage.	Provide proper soil moisture and fertility. Remove infected plant parts + those which have fallen. Remove infected canes when dormant pruning. Prune to promote air circulation.

COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	22 of 23

		<p>Apply water in mid-afternoon (on roses: only to varieties resistant to Blackspot and Rust).</p> <p>Treat with fungicide + with dormant spray.</p> <p>Replace with resistant varieties.</p>
ROSES	APHID: 15 aphids found on terminal 6 inches including flower bud.	Insure proper cultural needs, avoid high nitrogen levels.
STONE FRUITS	APHID: 10 aphids found on any 10-leaf sample, OR Distortion affects 15% of foliage.	<p>Water wash at any time.</p> <p>Remove infested parts.</p> <p>Control ants if possible.</p> <p>Treat with insecticide, + with oil in dormant spray.</p>
GLADIOLUS	THRIPS: 2% of foliage showing damage.	<p>Insure cultural needs.</p> <p>Remove severely infested plants. Introduce beneficial insects.</p> <p>Treat with insecticide.</p> <p>Rotate beds in future years.</p> <p>Remove corms to dry.</p>

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COUNCIL POLICY			
Subject: CITY-WIDE INTEGRATED PEST MANAGEMENT POLICY	Policy Number	Effective Date	Number of Pages
	000-74	03/05/2024	23 of 23

LOCATION	ACTION THRESHOLD	ACTION
All landscape plants.	MITES: damage visible on 25% of foliage.	Address cultural needs. Address problems that promote population build-ups. Inspect for beneficial species. Treat with miticide.
	WHITEFLY: individuals of any growth stage present on 10% of foliage.	Address cultural needs. Inspect for beneficial species. Release parasitic wasps. Remove infested plant parts. Treat with insecticide.
	SCALE: visible on 15% of branches.	Address cultural needs. Inspect for beneficial species. Remove infested plant parts. Treat with insecticide. Use oil in with dormant spray.



City of Santa Santa Rosa Pesticide Application Log

Date	Site	Target Pest	Brand/Chemical Name	EPA Reg #	WO #	
Time	Area Treated	Size of Treated Area	Application Rate	Amount Used	Applied By	
						Comments:
						Comments:
						Comments:
						Comments:
						Comments:
						Comments:
						Comments:
						Comments:

To be filled out by the applicator after every application and submitted monthly to the city representative.



Exhibit E2 may be utilized as a guide to provide the information required to be submitted for Exhibit E1.

Date:	Date of pesticide application.
Time:	Starting time of pesticide application. Do not include preapplication travel time or mixing.
Site:	Location of the application. Name of city site. Address if available. Use Exhibit C as a reference for site location site listing.
Area Treated:	Specific area within the treated site. Example: "tree wells", "ball field", "building landscape", etc.
Target Pest:	Pest you are trying to control or eradicate. Examples: "broadleaf weeds", "perennial pepperweed", "Poison Oak", "Mediterranean Oak Borer", etc.
Size of Treated Area:	Area to be stated in square feet (sq ft) or in acres (ac). Use your best estimate when spot spraying.
Brand:	Brand- Listed on the pesticide label. The name the manufacture gives the product. Referred to as the product's trade name.
Chemical Name:	The chemicals active ingredient for pesticidal action based on international naming rules as labeled on the container. Labeled as common or generic names. **One or both should be used.
Application Rate:	The amount of pesticide that is applied to a known area. Use per 1,000 sq ft, 10,000 sq ft or Acre.
EPA Reg #:	Environmental Protection Agency Registration Number. Listed on the label. Required on all pesticides applied in the United States. The established number identifies the site of manufacture or repackaging. California has also required California registration numbers on products applied within the state.
WO #:	CityWorks, Work Order Number. Used to track labor hours, equipment, materials, related documents, and pictures.
Applied By:	Name of the applicator. Printed first and last name.
Comments:	Notes related to the application. Examples include: weather conditions, special instruction, equipment used, materials needed outside of the required reported pesticide, and site conditions.