



Agenda Item #: _____

Staff Report

City of Manhattan Beach

TO: Honorable Mayor Tell and Members of the City Council

THROUGH: David N. Carmany, City Manager

FROM: Richard Thompson, Director of Community Development
Jim Arndt, Public Works Director
Nhung Madrid, Management Analyst
Jack Rydell, Traffic Engineer

DATE: March 20, 2012

SUBJECT: Resolution No. 6343 Authorizing the Submission of a Safe Routes to School (SR2S) Grant Application for Pedestrian and Bicycle Improvements for Manhattan Beach Schools Grades K through 8

RECOMMENDATION:

Staff recommends that City Council:

1. Adopt Resolution No. 6343, authorizing the submission of a Cycle 10 Safe Routes to School Grant application for various pedestrian and bicycle improvements in the vicinity of all Manhattan Beach schools grades K through 8; and
2. Authorize and delegate to the City Manager, or his designee, the authority to execute and submit on behalf of the City all documents, including but not limited to, applications, agreements, amendments, annual reports, expenditure reports and payment requests, which may be necessary for the administration of the Grant; and
3. Authorize the expenditure of up to \$50,000 for the City-match portion of the Grant from the CIP Fund.

FISCAL IMPLICATION:

There is a 10 percent local match for this grant. The estimated total project cost is \$500,000 resulting in a City-match of \$50,000 from the CIP Fund if the grant is awarded.

BACKGROUND:

Since 1999, the California Department of Transportation (Caltrans) has made grants available to local governmental agencies under the Safe Routes to School (SR2S) program based upon the results of a statewide competition. The goals of the program are to reduce injuries and fatalities to school children and to encourage increased walking and bicycling among students. The program achieves these goals by constructing facilities that enhance safety for pedestrians and bicyclists, primarily students in grades K-12 who walk or bicycle to school. By enhancing the safety of the pathways, trails, sidewalks, and crossings, the likelihood of attracting and encouraging other students to walk and bike increases. The current call for projects is the 10th cycle of this grant program.

The California SR2S program is different from the federal Safe Routes to School (SRTS) program for which Manhattan Beach recently was awarded approximately \$490,000 for various pedestrian and bicycle related improvements. Although both programs have similar goals and objectives, their funding source, local funding match requirements and other program requirements are different.

Applications for the SR2S program are due on March 30, 2012 and can only be submitted by an incorporated city or a county within the State of California. It is a reimbursement program with funding is derived from the State Highway Account (SHA) in the annual budget development process. The amount of funding targeted for Cycle 10 is \$45 million which would be funded from the 2011/12 State Budget Act and projected funding from the 2012/13 State Budget. The maximum reimbursement percentage for any SR2S project is ninety (90) percent. The maximum amount of SR2S funds that will be allocated to any single project is \$450,000.

The SR2S program funds construction projects to improve the safety of students who walk or bike to school. Improvements must be made on public property. Incidental costs are eligible for reimbursement up to a total of 10% of the construction total cost. Examples of such costs are:

- Costs for programs or activities related to education, enforcement or encouragement activities.
- Construction improvements on public school grounds consistent with the scope of the project.

Eligible project components can include the following:

- **Pedestrian Facilities**, including new sidewalks, sidewalk widening, sidewalk gap closures, curbs, gutters, and curb ramps. new pedestrian trails, paths and pedestrian over-and under-crossings. All pedestrian projects must comply with the Americans with Disabilities Act (ADA).
- **Traffic Calming**, including roundabouts, bulb-outs, speed humps, raised crosswalks, raised intersections, median refuges, narrowed traffic lanes, lane reductions, full- or half-street closures, and other speed reduction techniques.
- **Traffic Control Devices**, including new or upgraded traffic signals, crosswalks, pavement markings, traffic signs, traffic stripes, in-roadway crosswalk lights, flashing beacons, bicycle-sensitive signal actuation devices, pedestrian countdown signals, vehicle speed feedback signs, pedestrian activated signal upgrades, and all other pedestrian- and bicycle-related traffic control devices.
- **Bicycle Facilities**, including new or upgraded bikeways, trails, paths, geometric improvements, shoulder widening, and bicycle parking facilities, racks and lockers.
- **Public Outreach and Education/Encouragement/Enforcement**, including activities such as installing bicycle racks/lockers on school grounds, preparing and distributing safety and health awareness materials, coordinating “walking school bus” efforts, developing education programs for school personnel, students, parents, and other partners and stakeholders.

Ineligible project components include sidewalk repairs, improvements to pick-up and drop-off

areas, pavement repairs and rehabilitation of traffic lanes and compensation for crossing guards.

DISCUSSION:

As previously mentioned, Manhattan Beach applied for a federal Safe Routes to School (SRTS) Program grant in July 2011 and was notified that we were successful in October 2011. This grant included the following improvements at American Martyrs, Grand View, Manhattan Beach Middle, Meadows, Pacific and Robinson Schools:

- Radar speed feedback signs.
- Solar-powered red flashing beacons and red reflective strips on existing “STOP” signs.
- Yield to pedestrian signs and markings at crosswalks.
- Pedestrian pathway improvements.
- Additional crosswalks, school signage and markings.
- Bicycle path.
- Traffic signage to improve yielding to pedestrians in crosswalks.
- Curb extensions (bulb-outs) and ADA ramps at school crosswalks.

Specific improvements for each school are identified on the attached sketches (Attachment A). Staff is currently following the necessary Caltrans procedures to receive authorization to proceed with constructing these improvements. This federal grant had no local match – it is 100% reimbursable.

In order to develop the SRTS and SR2S grant applications, Staff worked very closely with the Principals, PTA and parents from each school. The Safe Routes to School Program grants are intended to be driven by the concerns and needs of these Stakeholders. Successful applications are those based on identifiable problem locations and the solutions that would enhance pedestrian/bicyclist safety as well as encourage more children to walk and bike to school. Meetings were held with Stakeholders from each school to determine the most appropriate solutions. The previous SRTS grant application process included conducting surveys of parents’ concerns, and the current SR2S grant application built upon that information to continue identifying appropriate improvements. Of special interest for this application are needs of the Walking School Buses, which are being developed with assistance from the Vitality Cities program. Now that Walking School Buses have been started at five schools, additional improvements have been identified and are included in this application.

The proposed improvements for this grant application are shown in the attached sketches (Attachment B). Most of the improvements have been used already within the City. However one new device, the in-roadway warning light, is proposed for this application. These are devices that assist pedestrians crossing roadways at marked crosswalks where there are no stop or traffic signal controls. These devices were strongly requested by the school Stakeholders as a means to enhance safety for pedestrians during arrival and dismissal periods. They are already in use in many other cities, including Hermosa Beach, Redondo Beach and El Segundo.

In-Roadway Warning Light installations have proliferated in their 10 years of existence. Their use originated in California and Washington State but has spread to numerous other places in the United States. In-Roadway Warning Lights consist of a series of amber lighting units embedded in the pavement parallel to a marked crosswalk. The lights typically only display outward in the

directions of oncoming traffic and may be activated passively by pedestrians passing through or waiting in a detection area, or actively, by push-buttons. In-Roadway Warning Lights are reserved for use where it is desirable to alert motorists that they are approaching a condition on or adjacent to the roadway that might not be readily apparent and might require the road users to slow down and/or come to a stop. This includes, but is not necessarily limited to, situations warning of marked school crosswalks, marked midblock crosswalks, marked crosswalks on uncontrolled approaches, marked crosswalks in advance of roundabout intersections and other roadway situations involving pedestrian crossings.

Use of these devices is authorized in the California Manual of Uniform Traffic Control Devices (CA MUTCD). Criteria for their use include:

- They shall be installed only at marked crosswalks with applicable warning signs;
- They shall not be used at crosswalks controlled by YIELD signs, STOP signs, or traffic control signals;
- They shall be installed along both sides of the crosswalk and shall span its entire length;
- They shall initiate operation based on pedestrian actuation and shall cease operation at a predetermined time after the pedestrian actuation or, with passive detection, after the pedestrian clears the crosswalk; and,
- They shall display a flashing yellow signal indication when actuated.

As with flashing beacons, the experience with In-Roadway Warning Lights has been mostly positive, with a few negative results. As detailed in the National Cooperative Highway Research Program (NCHRP) Report No. 562 – “Improving Pedestrian Safety at Unsignalized Crossings”, for most of the installations In-Roadway Warning Lights have increased driver yielding to the 50 to 90 percent range. Additionally, the In-Roadway Warning Lights typically increase the distance that motorists first brake for a pedestrian crossing, indicating that motorists recognize the pedestrian crossing and the need to yield sooner. These results have been even more dramatic at night when the In-Roadway Warning Lights are highly visible.

This grant proposes installing in-roadway warning lights at six (6) locations near schools throughout the City. By pursuing the first installation of these devices in Manhattan Beach solely at school crossings, this provides an opportunity for residents to become familiar with their operation as well as allow Staff to evaluate their feasibility and effectiveness. Due to their relatively high cost (\$40,000 each), the grant process provides a funding source to install these devices that may not otherwise be available to the City.

Although the attached improvements are what the City will be requesting, reductions in project scope are sometimes requested by Caltrans. Therefore, any approved project may vary slightly from what is being submitted. In addition, this grant program is reimbursement-based. The actual amount (and the 10% City match) may be less than what is being estimated due to favorable contractor bids, lower material costs or other cost savings.

The City of Redondo Beach contacted Staff recently to request consideration of submitting a joint application. The only item they are requesting is Walking School Bus signage and the relatively small cost of this item (approximately \$10,000) would make it financially infeasible to apply on their own due to the substantial follow-up coordination that Caltrans requires on any

grant award. Since we are also requesting funds for Walking School Bus signage, and the two cities are currently working together with Vitality City in developing the Walking School Bus program, and there is no additional cost that Manhattan Beach would incur by submitting a multi-jurisdictional application, we believe it is reasonable to submit a joint application. This would also enhance our chances of being awarded the grant. The City of Redondo Beach is requesting that their City Council authorize a joint Safe Routes to School application with Manhattan Beach at their City Council meeting tonight as well. If approved by Council, Staff will coordinate with Redondo Beach to prepare a joint application and will develop the necessary inter-agency agreements.

- Attachments:
- A. Final Site Plans for federal Safe Routes to School Grant (SRTS)
 - B. Proposed Improvements for state Routes to School Grant (SR2S)
 - C. Resolution No. 6343

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Location for solar-powered
radar speed feedback sign
for eastbound traffic
approaching the school

American Martyrs Elementary School
Cycle 3 SRTS Grant Application
Site Plan - Sheet AM-2

Install solar-powered red flashing beacons and red reflective strips on existing R-1 ("STOP") signs (3). Beacons shall be on timer to coincide with school arrival and dismissal periods

Notes:

1. Crosswalks shown have been replaced with high visibility crosswalks since aerial was taken.
2. Intersection has been changed to all-way stop control.



R1-5

Install "Yield Here to Pedestrians" (R1-5) sign

Install Yield line

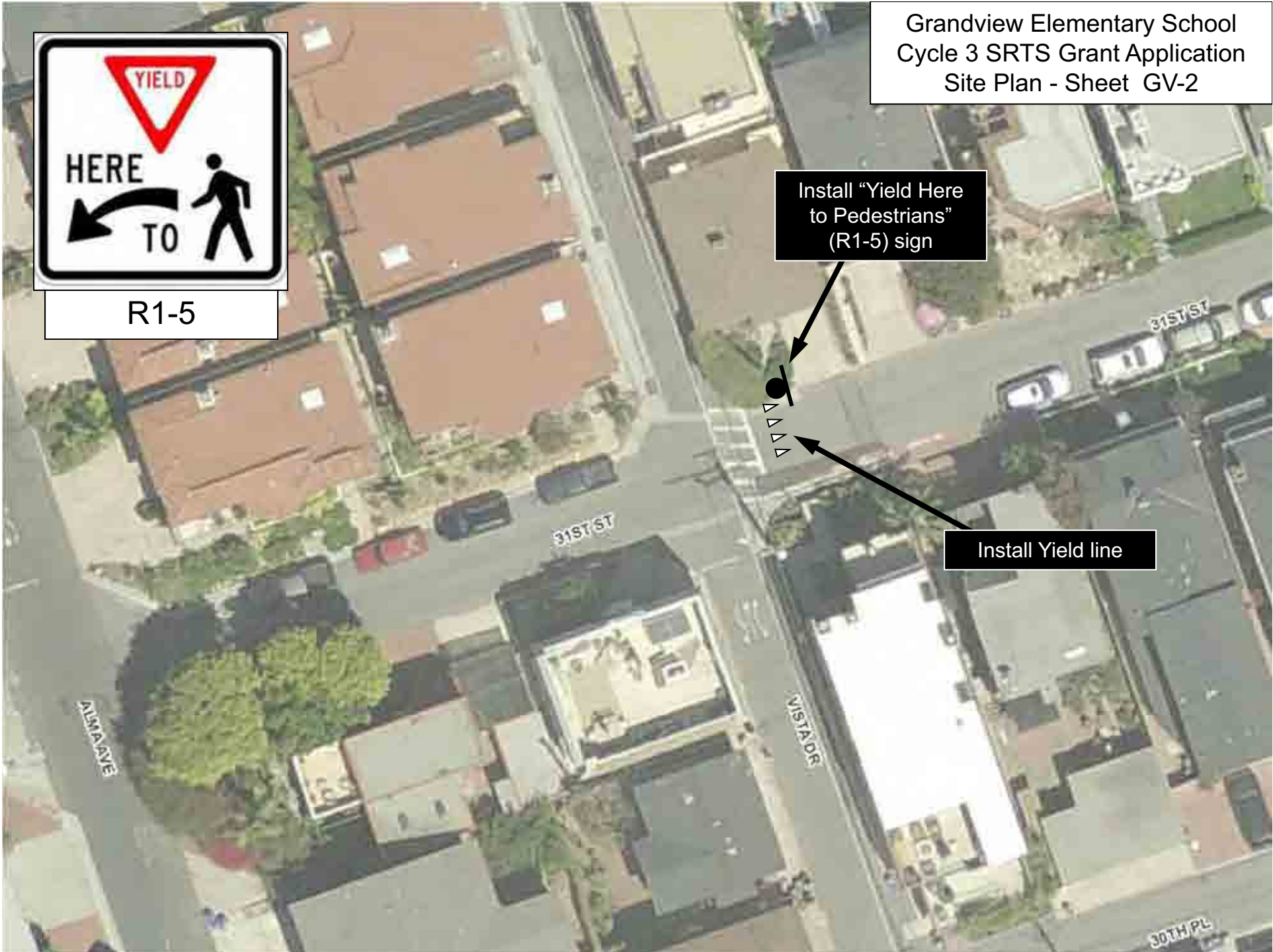




R1-5

Install "Yield Here
to Pedestrians"
(R1-5) sign

Install Yield line

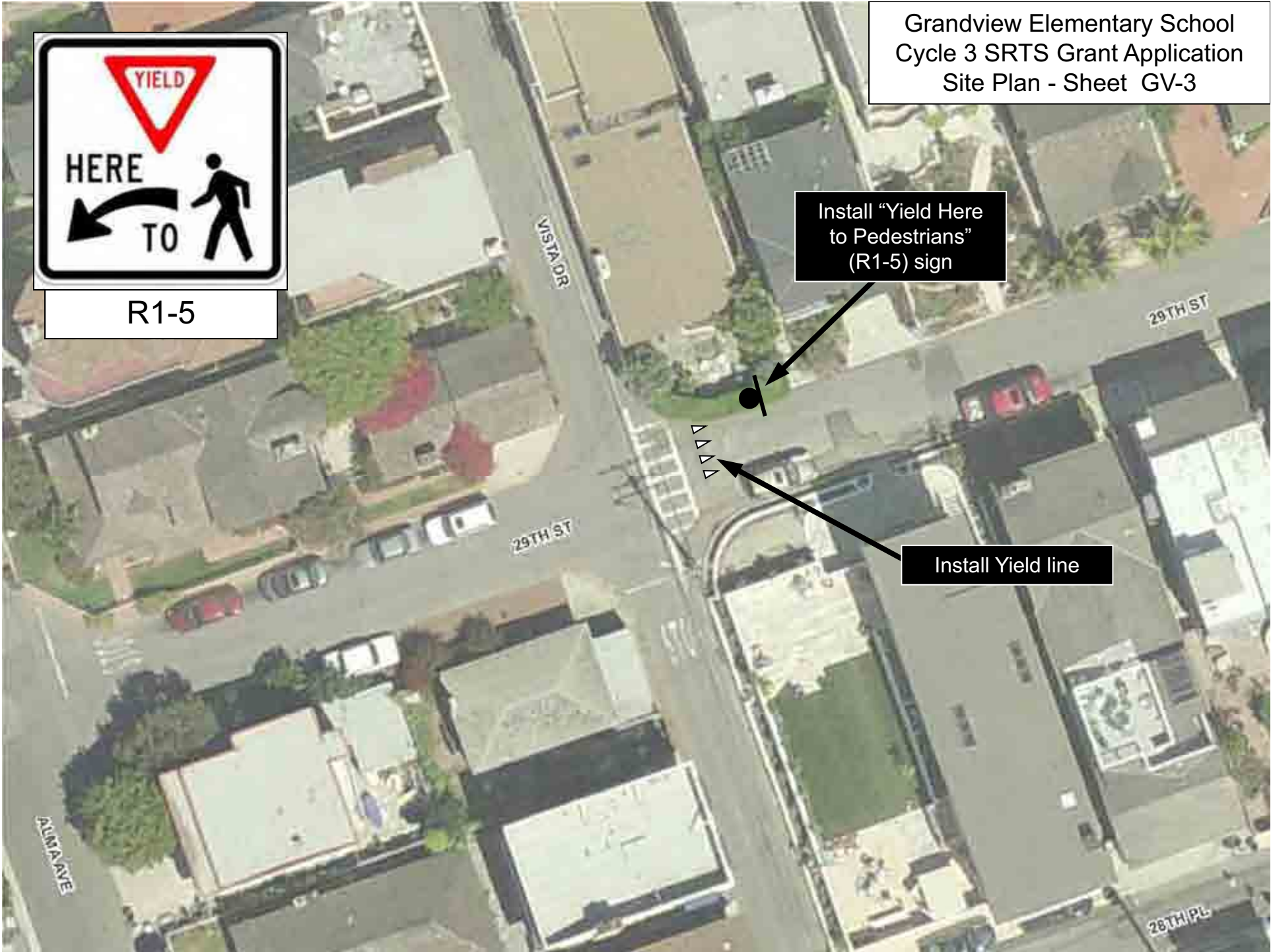




R1-5

Install "Yield Here to Pedestrians" (R1-5) sign

Install Yield line

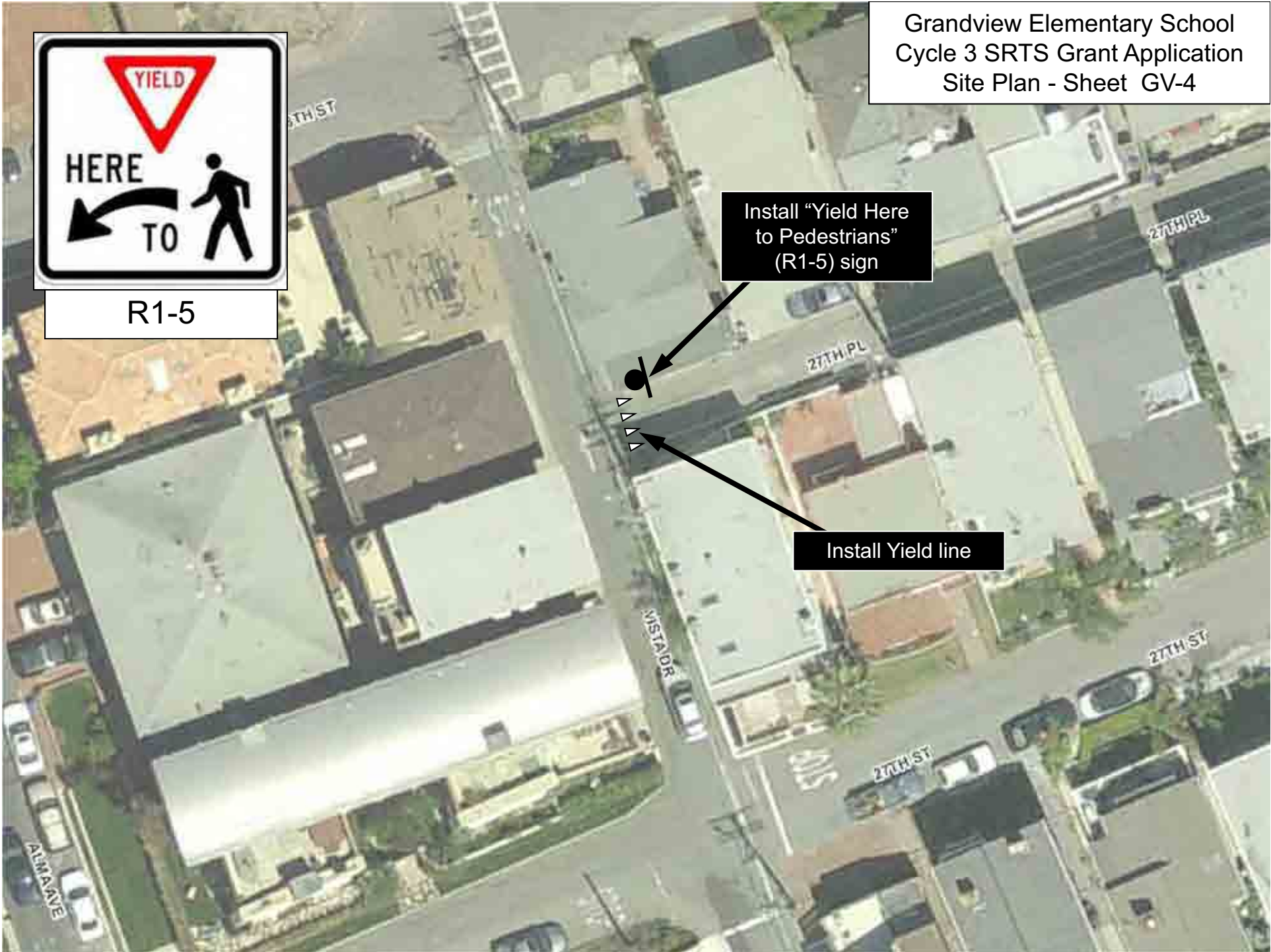




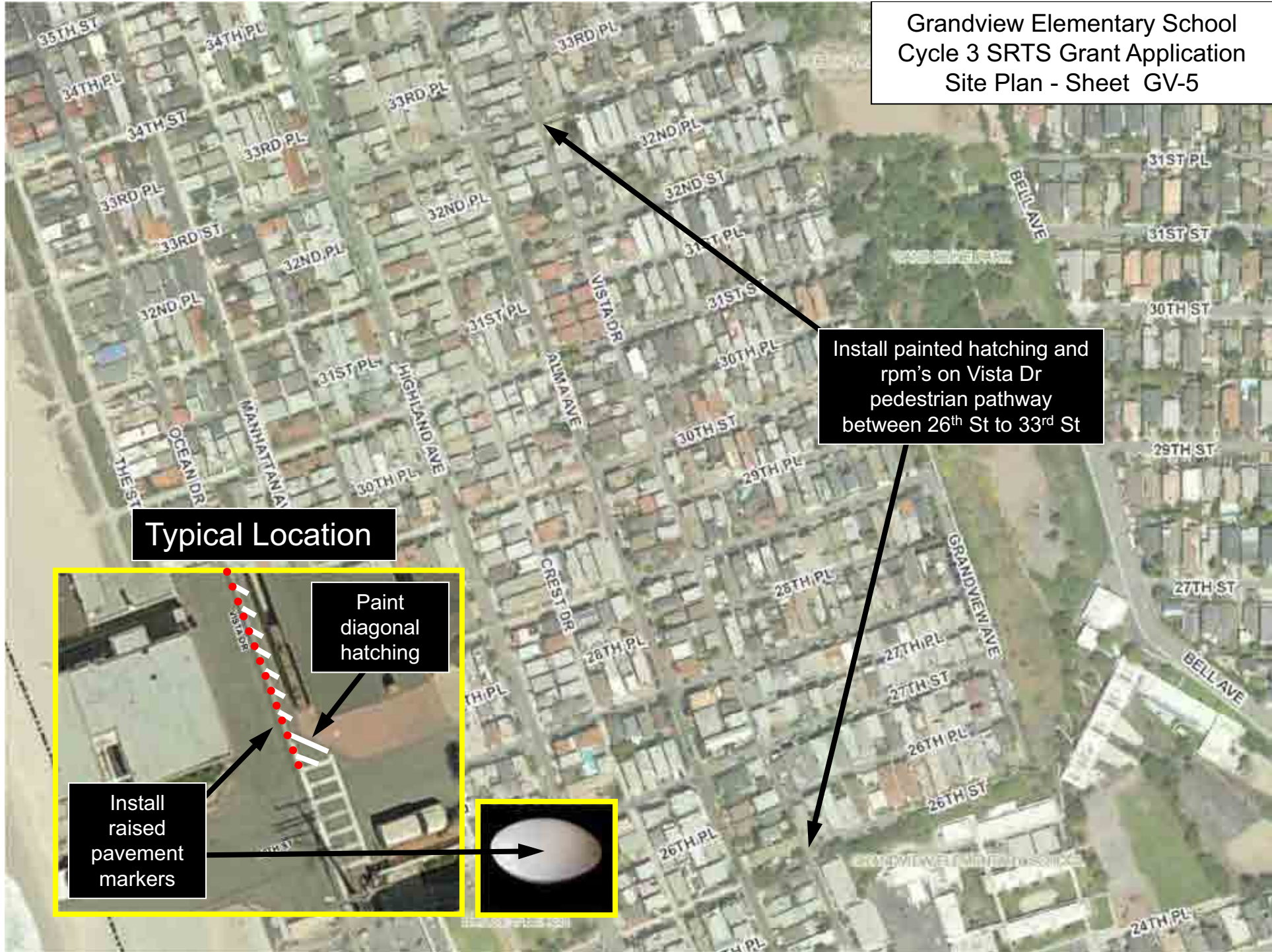
R1-5

Install "Yield Here
to Pedestrians"
(R1-5) sign

Install Yield line



Grandview Elementary School
Cycle 3 SRTS Grant Application
Site Plan - Sheet GV-5




Install painted hatching and rpm's on Vista Dr pedestrian pathway between 26th St to 33rd St

Typical Location

Paint diagonal hatching

Install raised pavement markers





Location for solar-powered
radar speed feedback sign for
southbound traffic
approaching the crosswalks

Location for solar-powered
radar speed feedback sign for
northbound traffic
approaching the crosswalks

Note: Crosswalk shown has been
replaced with high visibility
crosswalk since aerial was taken

Grandview Elementary School
Cycle 3 SRTS Grant Application
Site Plan - Sheet GV-7

Install yellow high
visibility crosswalk

Remove/Replace "STOP"
marking, limit line and
"STOP" sign as necessary

Note: Crosswalk shown has been
replaced with high visibility
crosswalk since aerial was taken



Grandview Elementary School
Cycle 3 SRTS Grant Application
Site Plan - Sheet GV-8

Install flexible delineators to
separate pedestrian pathway
from travel lane



Note: Crosswalks shown have
been replaced with high visibility
crosswalks since aerial was taken

Location for solar-powered
radar speed feedback sign for
southbound traffic
approaching the crosswalk

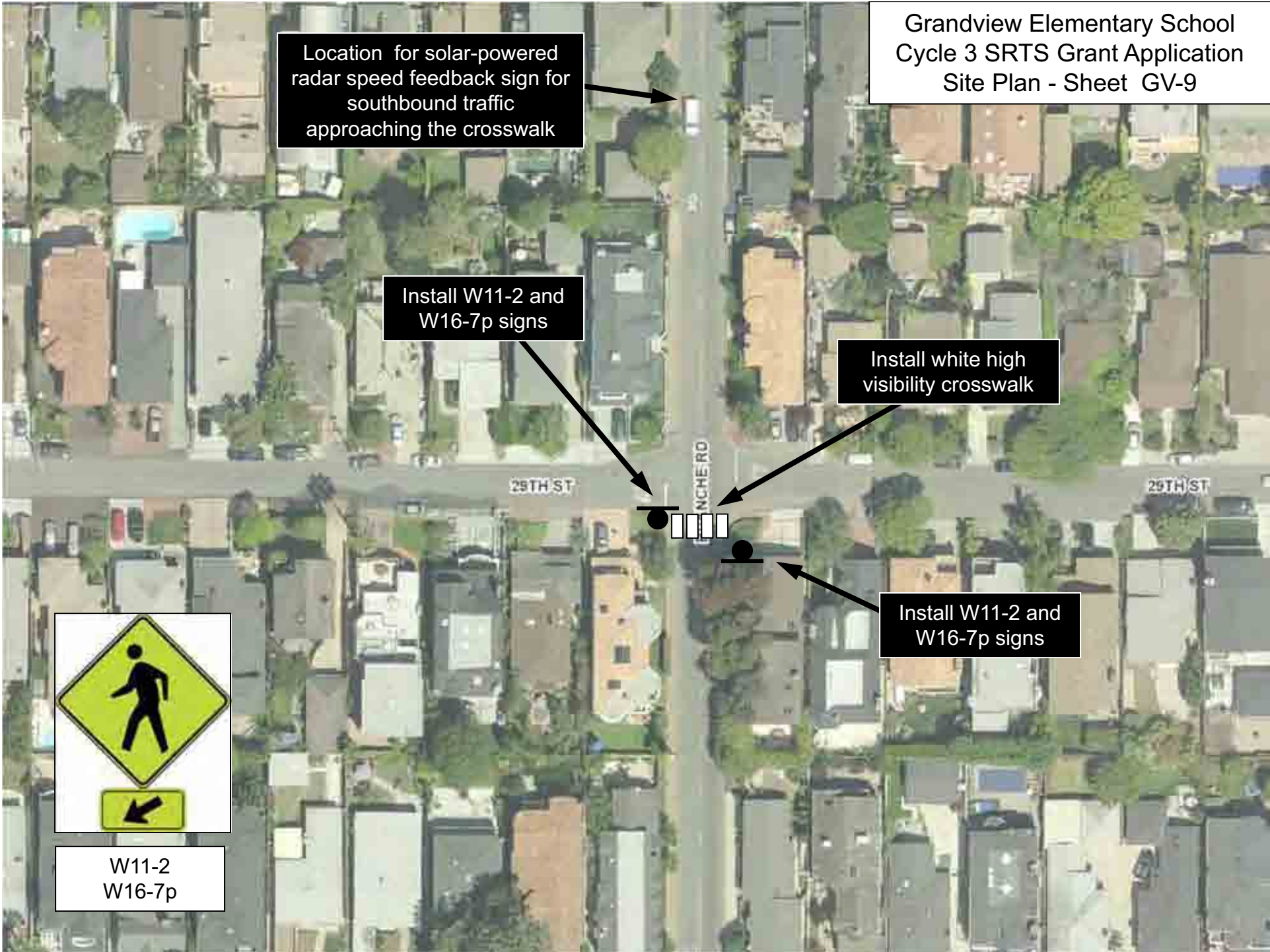
Install W11-2 and
W16-7p signs

Install white high
visibility crosswalk

Install W11-2 and
W16-7p signs

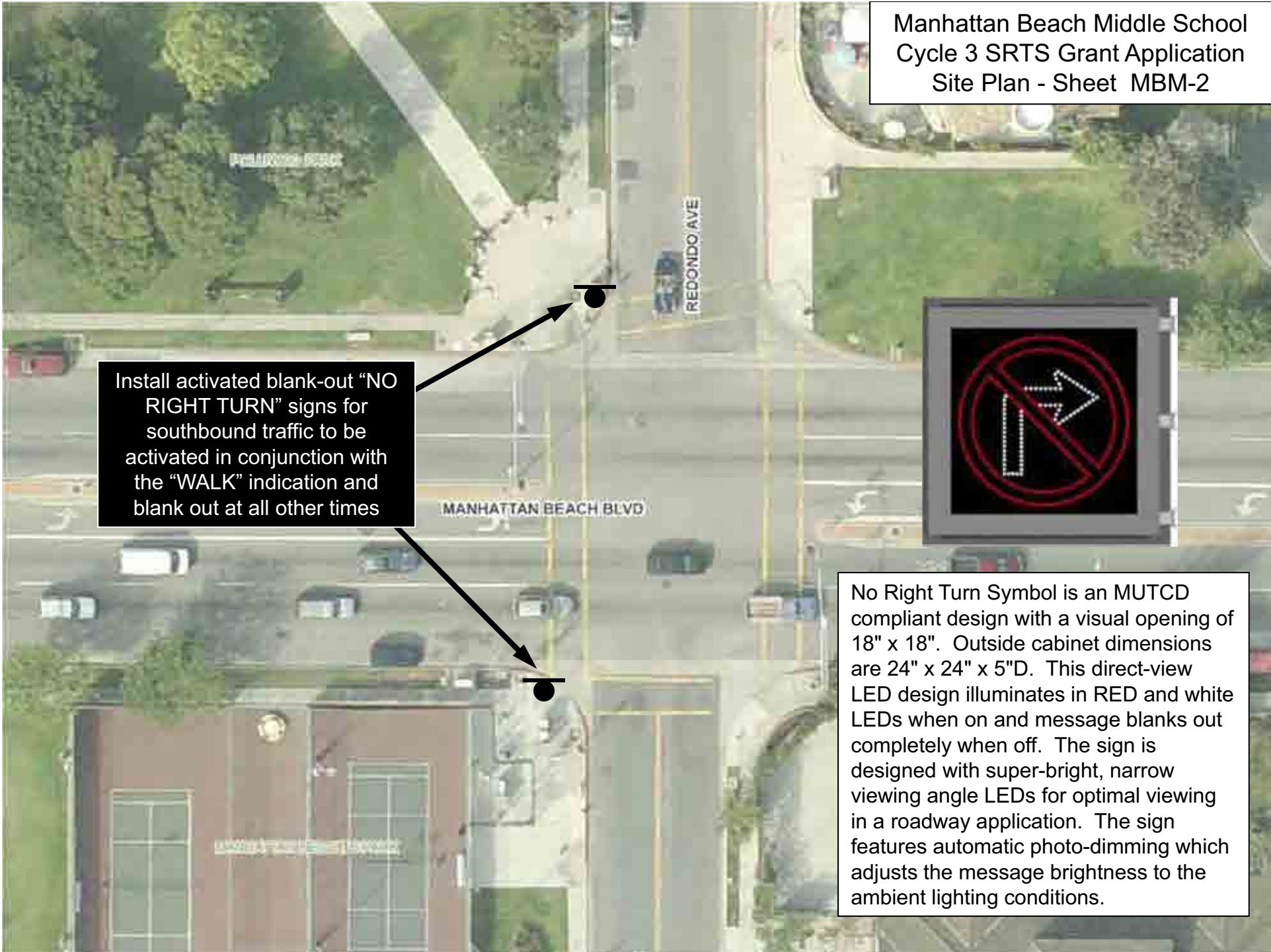


W11-2
W16-7p



Construct a bike path
connecting Manhattan
Beach Blvd with the
school entrance





Install activated blank-out "NO RIGHT TURN" signs for southbound traffic to be activated in conjunction with the "WALK" indication and blank out at all other times

No Right Turn Symbol is an MUTCD compliant design with a visual opening of 18" x 18". Outside cabinet dimensions are 24" x 24" x 5"D. This direct-view LED design illuminates in RED and white LEDs when on and message blanks out completely when off. The sign is designed with super-bright, narrow viewing angle LEDs for optimal viewing in a roadway application. The sign features automatic photo-dimming which adjusts the message brightness to the ambient lighting conditions.

Manhattan Beach Middle School
Cycle 3 SRTS Grant Application
Site Plan - Sheet MBM-3

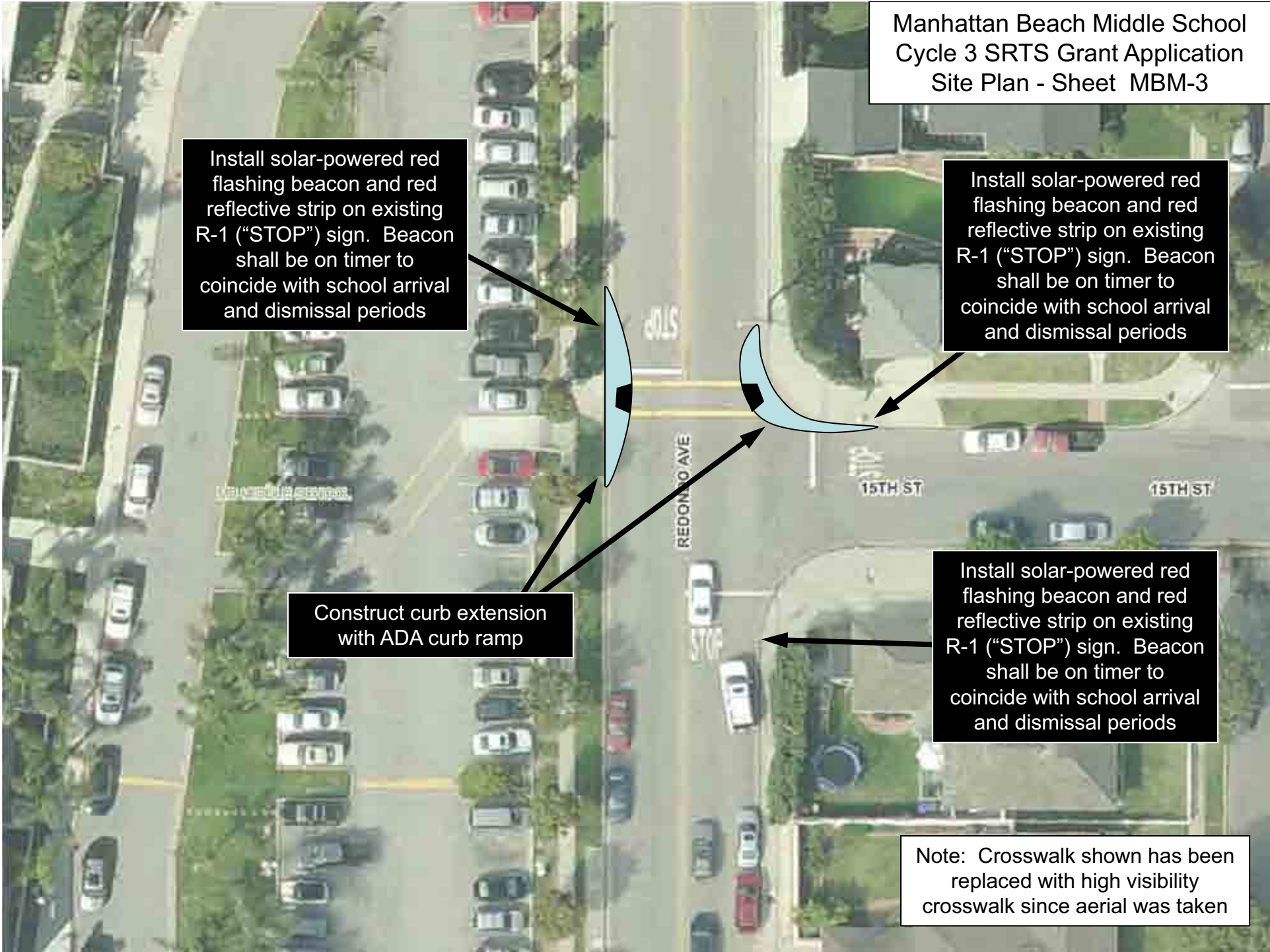
Install solar-powered red flashing beacon and red reflective strip on existing R-1 ("STOP") sign. Beacon shall be on timer to coincide with school arrival and dismissal periods

Install solar-powered red flashing beacon and red reflective strip on existing R-1 ("STOP") sign. Beacon shall be on timer to coincide with school arrival and dismissal periods

Construct curb extension with ADA curb ramp

Install solar-powered red flashing beacon and red reflective strip on existing R-1 ("STOP") sign. Beacon shall be on timer to coincide with school arrival and dismissal periods

Note: Crosswalk shown has been replaced with high visibility crosswalk since aerial was taken





Install solar-powered radar speed feedback sign for southbound traffic approaching the school

Meadows Elementary School
Cycle 3 SRTS Grant Application
Site Plan - Sheet ME-1

Install solar-powered red flashing beacon and red reflective strip on existing R-1 ("STOP") sign. Beacon shall be on timer to coincide with school arrival and dismissal periods

Construct curb extension with ADA curb ramp

Install solar-powered red flashing beacon and red reflective strip on existing R-1 ("STOP") sign. Beacon shall be on timer to coincide with school arrival and dismissal periods

Note: Crosswalks shown have been replaced with high visibility crosswalks since aerial was taken



Install 200 ft of 24" red
striping with "No Stopping
Any Time" legend

Meadows Elementary School
Cycle 3 SRTS Grant Application
Site Plan - Sheet ME-3

Install solar-powered red flashing beacon and red reflective strip on existing R-1 ("STOP") sign. Beacon shall be on timer to coincide with school arrival and dismissal periods

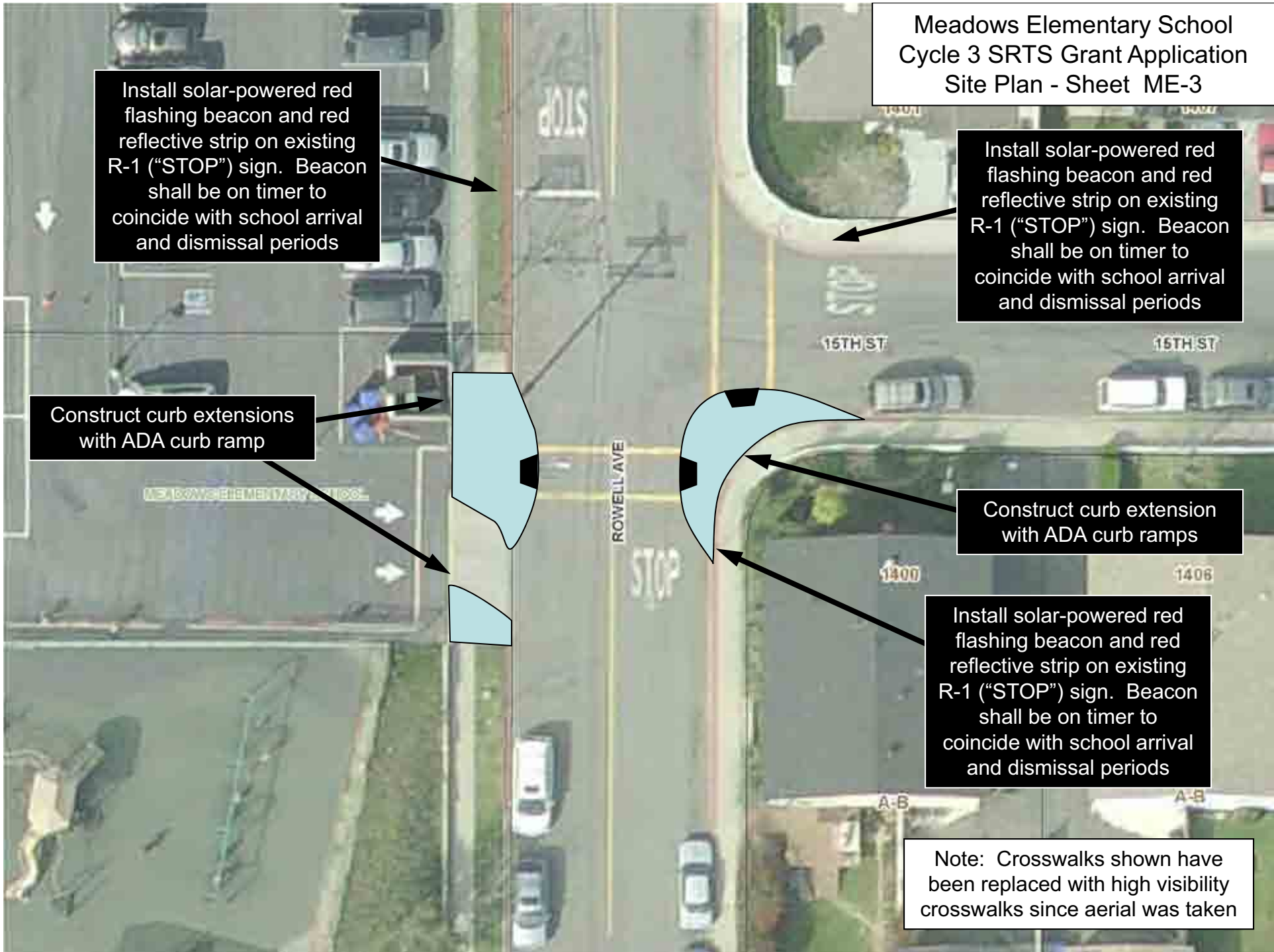
Install solar-powered red flashing beacon and red reflective strip on existing R-1 ("STOP") sign. Beacon shall be on timer to coincide with school arrival and dismissal periods

Construct curb extensions with ADA curb ramp

Construct curb extension with ADA curb ramps

Install solar-powered red flashing beacon and red reflective strip on existing R-1 ("STOP") sign. Beacon shall be on timer to coincide with school arrival and dismissal periods

Note: Crosswalks shown have been replaced with high visibility crosswalks since aerial was taken



Meadows Elementary School
Cycle 3 SRTS Grant Application
Site Plan - Sheet ME-4



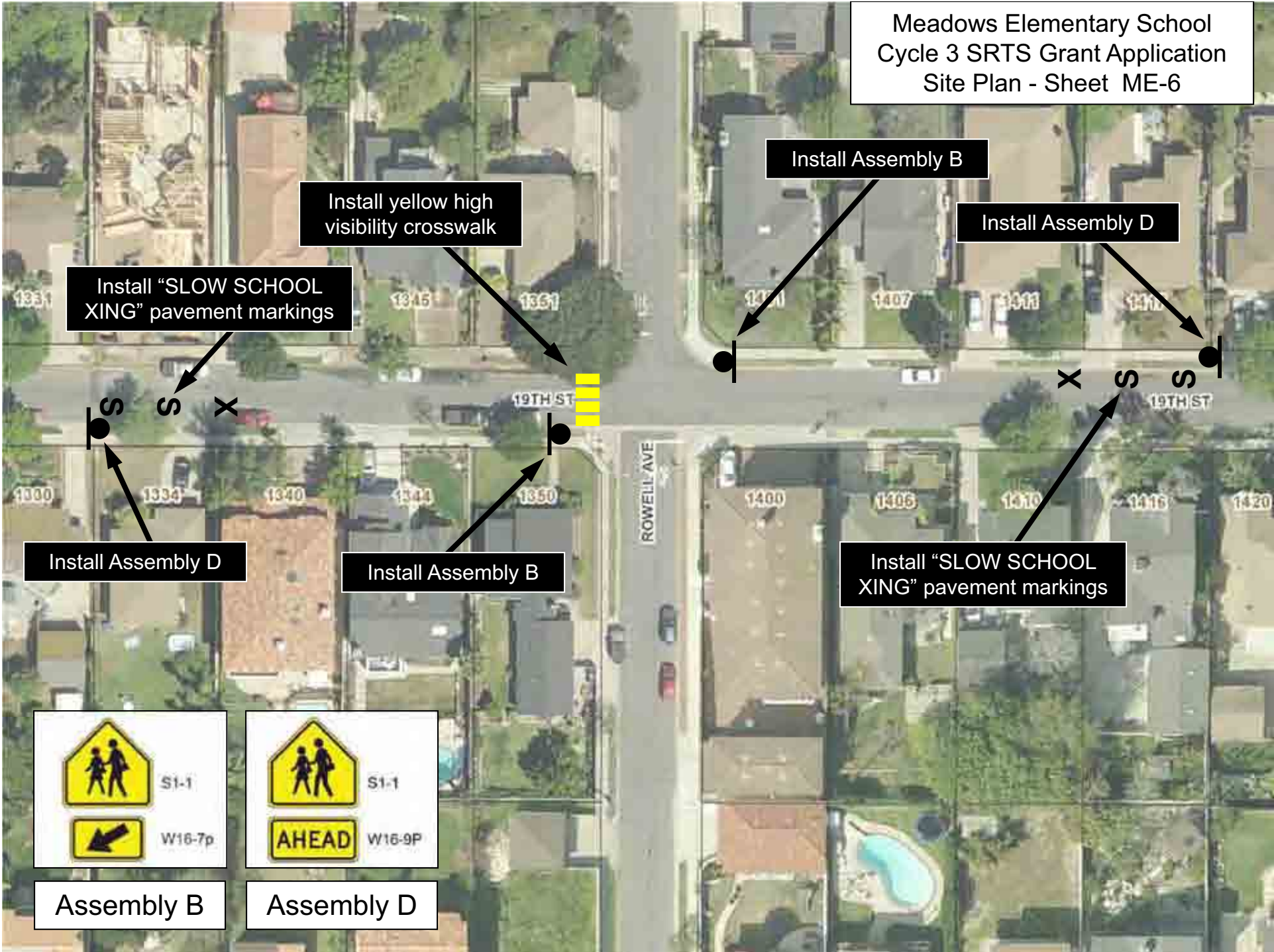
Install solar-powered red flashing beacons and red reflective strips (4) on existing R-1 ("STOP") signs. Beacons shall be on timer to coincide with school arrival and dismissal periods

Note: Crosswalks shown have been replaced with high visibility crosswalks since aerial was taken

Install solar-powered radar
speed feedback sign for
southbound traffic
approaching the school



Meadows Elementary School
Cycle 3 SRTS Grant Application
Site Plan - Sheet ME-6



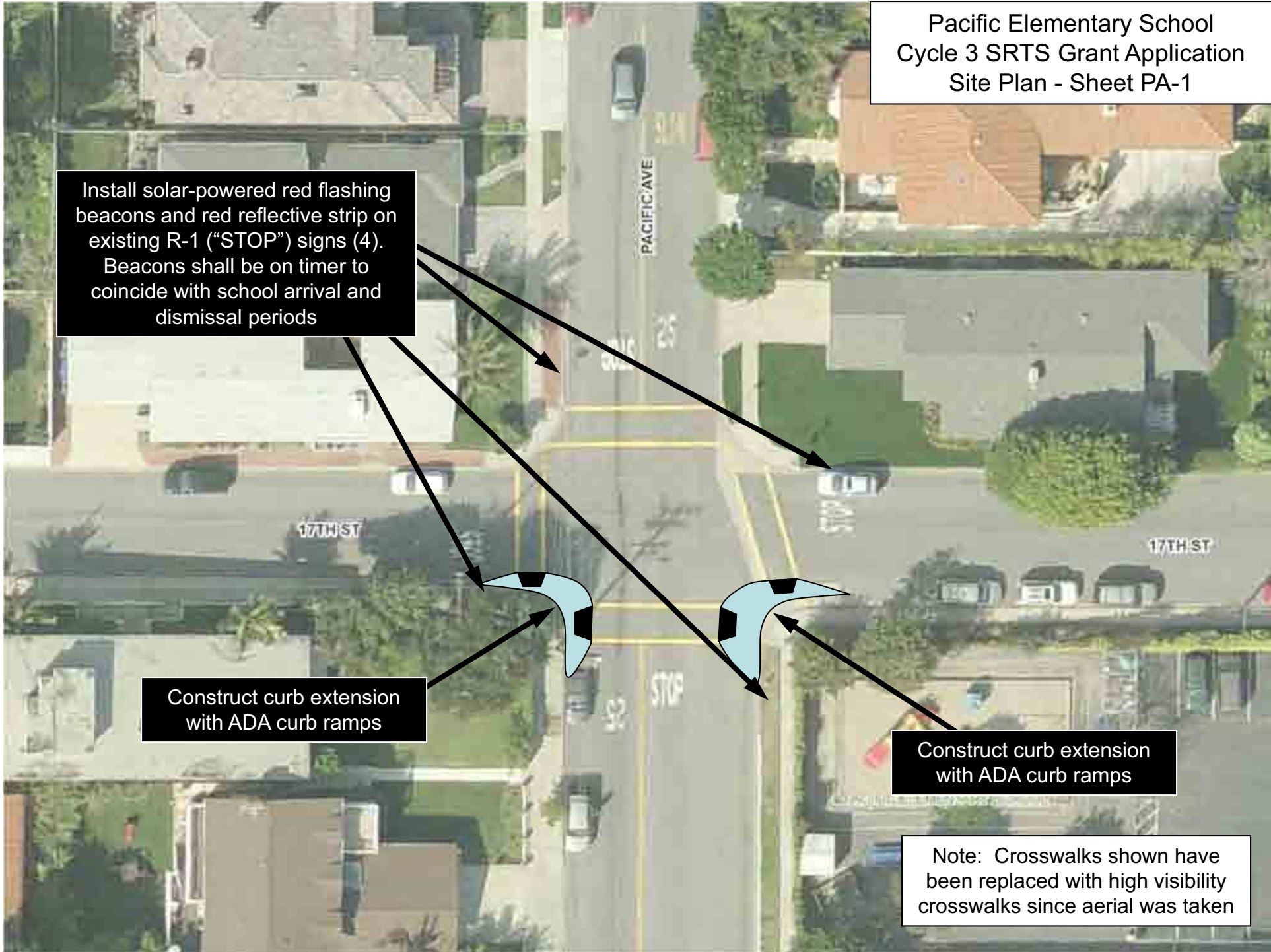
Pacific Elementary School
Cycle 3 SRTS Grant Application
Site Plan - Sheet PA-1

Install solar-powered red flashing beacons and red reflective strip on existing R-1 ("STOP") signs (4). Beacons shall be on timer to coincide with school arrival and dismissal periods

Construct curb extension with ADA curb ramps

Construct curb extension with ADA curb ramps

Note: Crosswalks shown have been replaced with high visibility crosswalks since aerial was taken



Pacific Elementary School
Cycle 3 SRTS Grant Application
Site Plan - Sheet PA-2

Replace existing center island with a larger island

Install solar-powered red flashing beacon and red reflective strip on existing R-1 ("STOP") sign. Beacon shall be on timer to coincide with school arrival and dismissal periods

Install solar-powered red flashing beacon and red reflective strip on existing R-1 ("STOP") sign. Beacon shall be on timer to coincide with school arrival and dismissal periods

Construct curb extension with ADA curb ramp

Install solar-powered red flashing beacon and red reflective strip on existing R-1 ("STOP") sign. Beacon shall be on timer to coincide with school arrival and dismissal periods

Note: Crosswalks shown have been replaced with high visibility crosswalks since aerial was taken



Pacific Elementary School
Cycle 3 SRTS Grant Application
Site Plan - Sheet PA-3



Install solar-powered radar speed feedback sign for northbound traffic approaching the school

Install solar-powered red flashing beacon and red reflective strip on existing R-1 ("STOP") sign. Beacon shall be on timer to coincide with school arrival and dismissal periods

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Note: Crosswalks shown have been replaced with high visibility crosswalks since aerial was taken



Pacific Elementary School
Cycle 3 SRTS Grant Application
Site Plan - Sheet PA-5

Install solar-powered red flashing beacon and red reflective strip on existing R-1 ("STOP") sign. Beacon shall be on timer to coincide with school arrival and dismissal periods

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Install solar-powered red flashing beacon and red reflective strip on existing R-1 ("STOP") sign. Beacon shall be on timer to coincide with school arrival and dismissal periods

Note: Crosswalks shown have been replaced with high visibility crosswalks since aerial was taken

Robinson Elementary School
Cycle 3 SRTS Grant Application
Site Plan - Sheet RO-1



Install right-turn only signage
and pavement markings

Construct curb extension
to prevent left turns

Install solar-powered red flashing beacons and red reflective strips on existing R-1 ("STOP") signs (3). Beacons shall be on timer to coincide with school arrival and dismissal periods



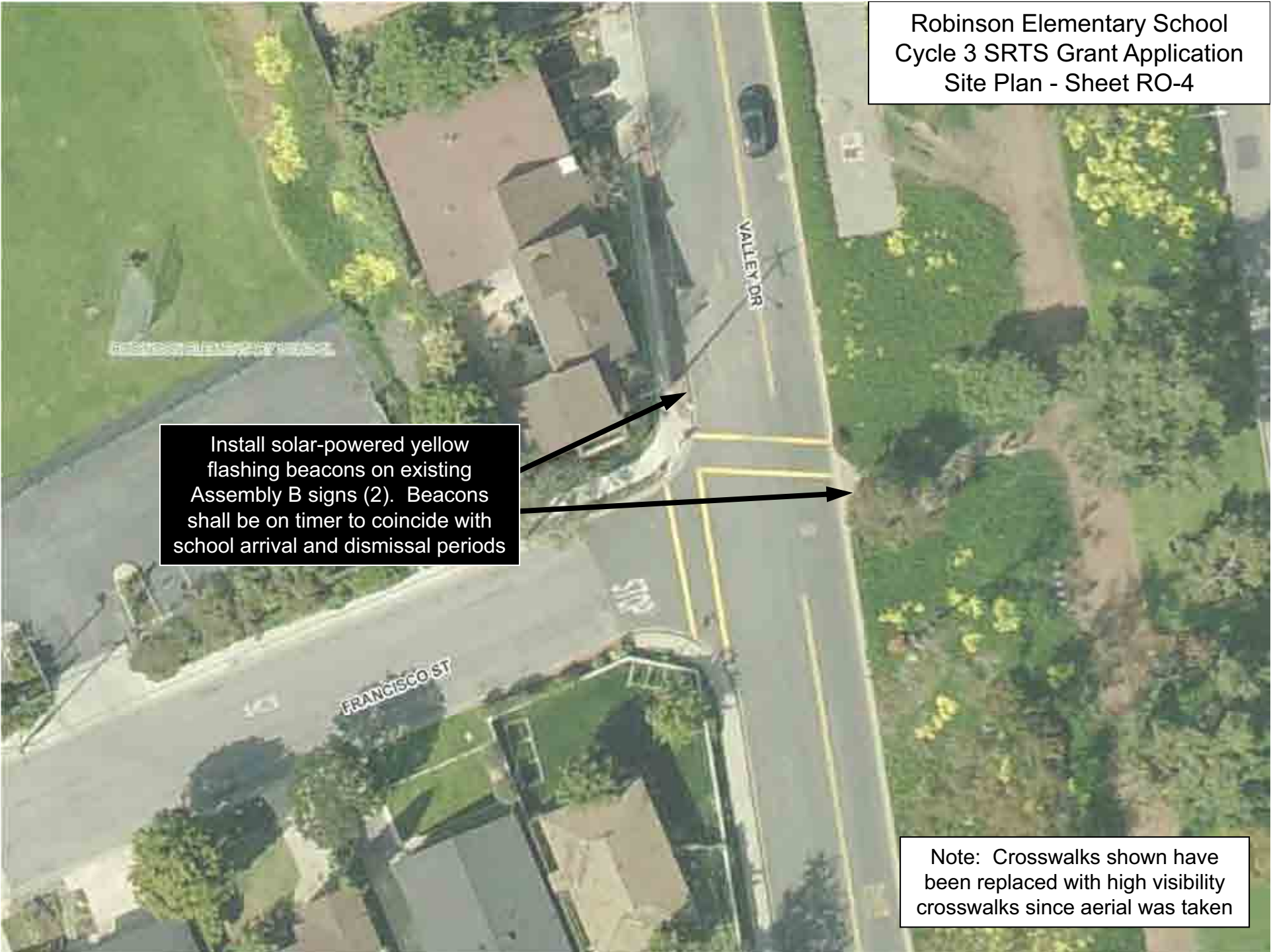
Note: Crosswalks shown have been replaced with high visibility crosswalks since aerial was taken

Install solar-powered red flashing beacons and red reflective strips on existing R-1 ("STOP") signs (4). Beacons shall be on timer to coincide with school arrival and dismissal periods

Relocate "STOP" and white limit line markings and R1-1 ("STOP") sign.

Construct curb extension with ADA curb ramps

Note: Crosswalks shown have been replaced with high visibility crosswalks since aerial was taken



Install solar-powered yellow flashing beacons on existing Assembly B signs (2). Beacons shall be on timer to coincide with school arrival and dismissal periods

Note: Crosswalks shown have been replaced with high visibility crosswalks since aerial was taken

American Martyrs School
Cycle 10 SR2S Grant Application
General Map - Sheet AM

Install solar-powered red flashing beacons on existing R-1 ("STOP") signs (Sheet AM-3)

Install pedestrian activated in-roadway warning lights at crosswalk on east leg (Sheet AM-1)

Install solar-powered red flashing beacons on existing R-1 ("STOP") signs (Sheet AM-2)



EXHIBIT B
CC MTG 3-20-12

Install pedestrian activated
in-roadway warning lights at
crosswalk



Note: Crosswalks shown have
been replaced with high visibility
crosswalks since aerial was taken

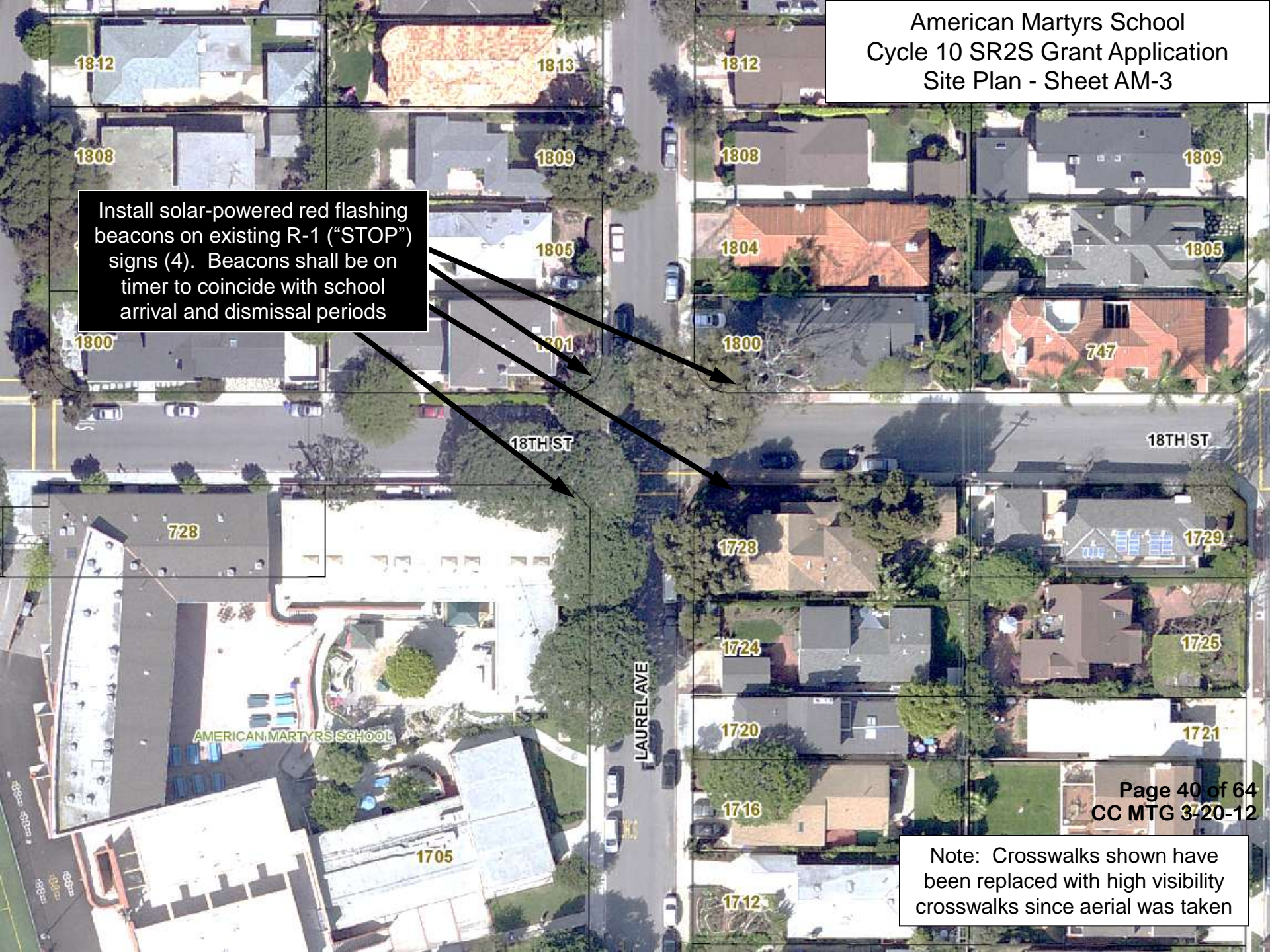
Install solar-powered red flashing beacons on existing R-1 ("STOP") signs (3). Beacons shall be on timer to coincide with school arrival and dismissal periods



Note: Crosswalk shown has been replaced with high visibility crosswalk since aerial was taken

American Martyrs School
Cycle 10 SR2S Grant Application
Site Plan - Sheet AM-3

Install solar-powered red flashing beacons on existing R-1 ("STOP") signs (4). Beacons shall be on timer to coincide with school arrival and dismissal periods



Note: Crosswalks shown have been replaced with high visibility crosswalks since aerial was taken

Grand View Elementary School
Cycle 10 SR2S Grant Application
General Map - Sheet GV

Install pedestrian activated in-
roadway warning lights at crosswalk
on north leg (Sheet GV-1)

Install pedestrian activated in-
roadway warning lights at
crosswalk on south leg
(Sheet GV-2)

Install solar-powered red flashing
beacons on existing R-1 ("STOP")
signs (Sheet GV-3)

Grand View Elementary School
Cycle 10 SR2S Grant Application
Site Plan - Sheet GV-1



Install pedestrian activated
in-roadway warning lights at
crosswalk

Note: Crosswalk shown has been
replaced with high visibility
crosswalk since aerial was taken

Install pedestrian activated
in-roadway warning lights at
crosswalk



BLANCHEIRD

29TH ST

29TH ST

Note: Crosswalk and appropriate
warning signs will be installed as
part of a separate project

GRANDVIEWELEMENTARY SCHOOL

Install solar-powered red flashing beacons on existing R-1 ("STOP") signs (6). Beacons shall be on timer to coincide with school arrival and dismissal periods

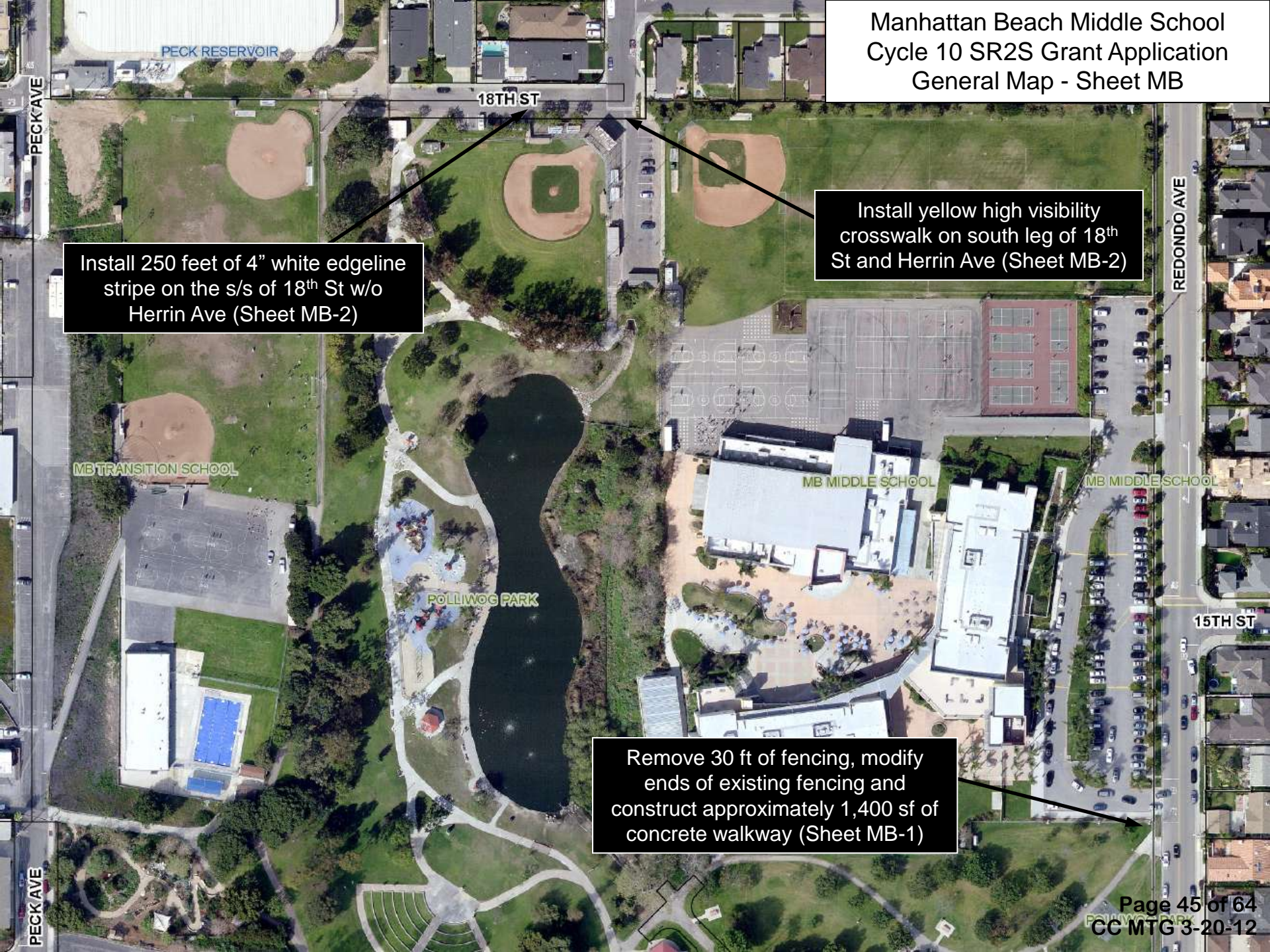


Manhattan Beach Middle School
Cycle 10 SR2S Grant Application
General Map - Sheet MB

Install 250 feet of 4" white edgeline stripe on the s/s of 18th St w/o Herrin Ave (Sheet MB-2)

Install yellow high visibility crosswalk on south leg of 18th St and Herrin Ave (Sheet MB-2)

Remove 30 ft of fencing, modify ends of existing fencing and construct approximately 1,400 sf of concrete walkway (Sheet MB-1)



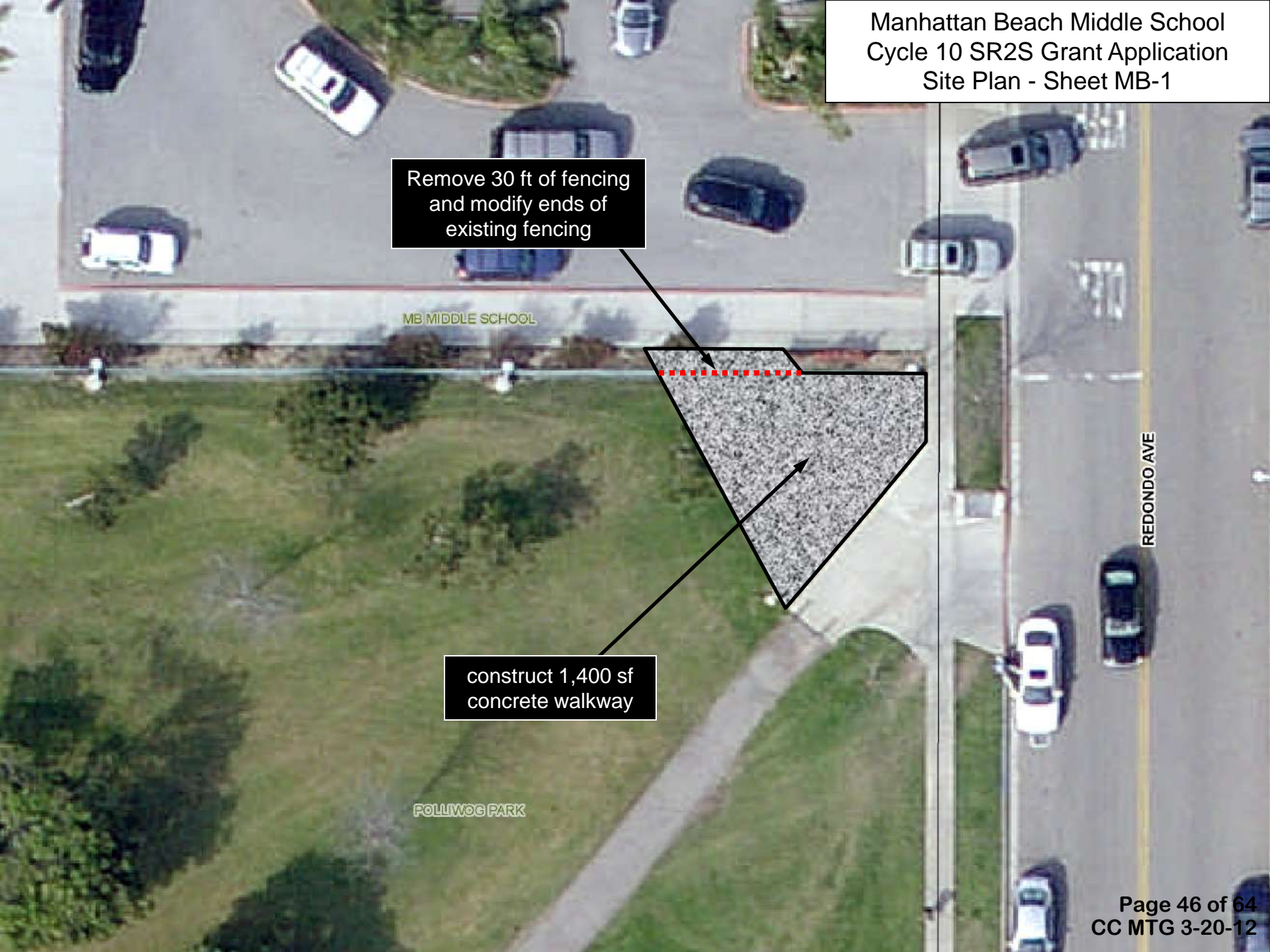
Remove 30 ft of fencing
and modify ends of
existing fencing

MB MIDDLE SCHOOL

construct 1,400 sf
concrete walkway

POLLIWOG PARK

REDONDO AVE





Install 250 feet of 4" white edgeline stripe on the s/s of 18th St w/o Herrin Ave

Install yellow high visibility crosswalk on south leg of 18th St and Herrin Ave

Meadows Elementary School
Cycle 10 SR2S Grant Application
General Map - Sheet ME



Install pedestrian activated in-roadway warning lights at crosswalk on north leg (Sheet ME-1)

MEADOWS ELEMENTARY SCHOOL

Install pedestrian activated
in-roadway warning lights at
crosswalk

12TH ST

1330

1334

1340

1350

A-C

#1-7

#1-14

A-D

1400

1406

1410

1416

1420

1154

#1-4

#1-4

#1-4

A-L

#1-4

#1-4

#1-4

#1-4

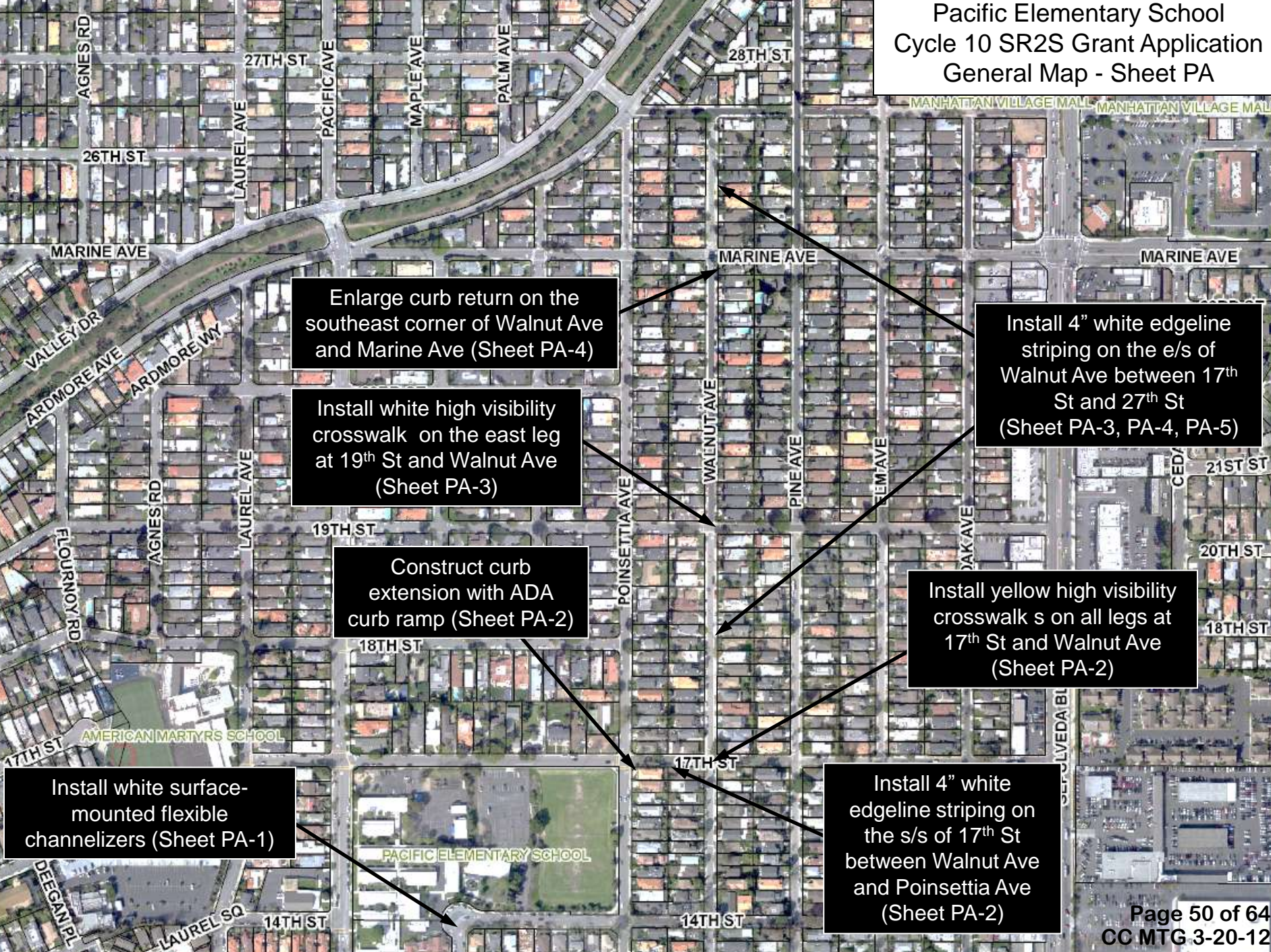
A-F

A-C

ROWELL AVE

Note: Crosswalks shown have
been replaced with high visibility
crosswalks since aerial was taken

Pacific Elementary School
Cycle 10 SR2S Grant Application
General Map - Sheet PA



Enlarge curb return on the southeast corner of Walnut Ave and Marine Ave (Sheet PA-4)

Install white high visibility crosswalk on the east leg at 19th St and Walnut Ave (Sheet PA-3)

Construct curb extension with ADA curb ramp (Sheet PA-2)

Install 4" white edgeline striping on the e/s of Walnut Ave between 17th St and 27th St (Sheet PA-3, PA-4, PA-5)

Install yellow high visibility crosswalks on all legs at 17th St and Walnut Ave (Sheet PA-2)

Install white surface-mounted flexible channelizers (Sheet PA-1)

Install 4" white edgeline striping on the s/s of 17th St between Walnut Ave and Poinsettia Ave (Sheet PA-2)

PACIFIC ELEMENTARY SCHOOL

14TH ST

14TH ST

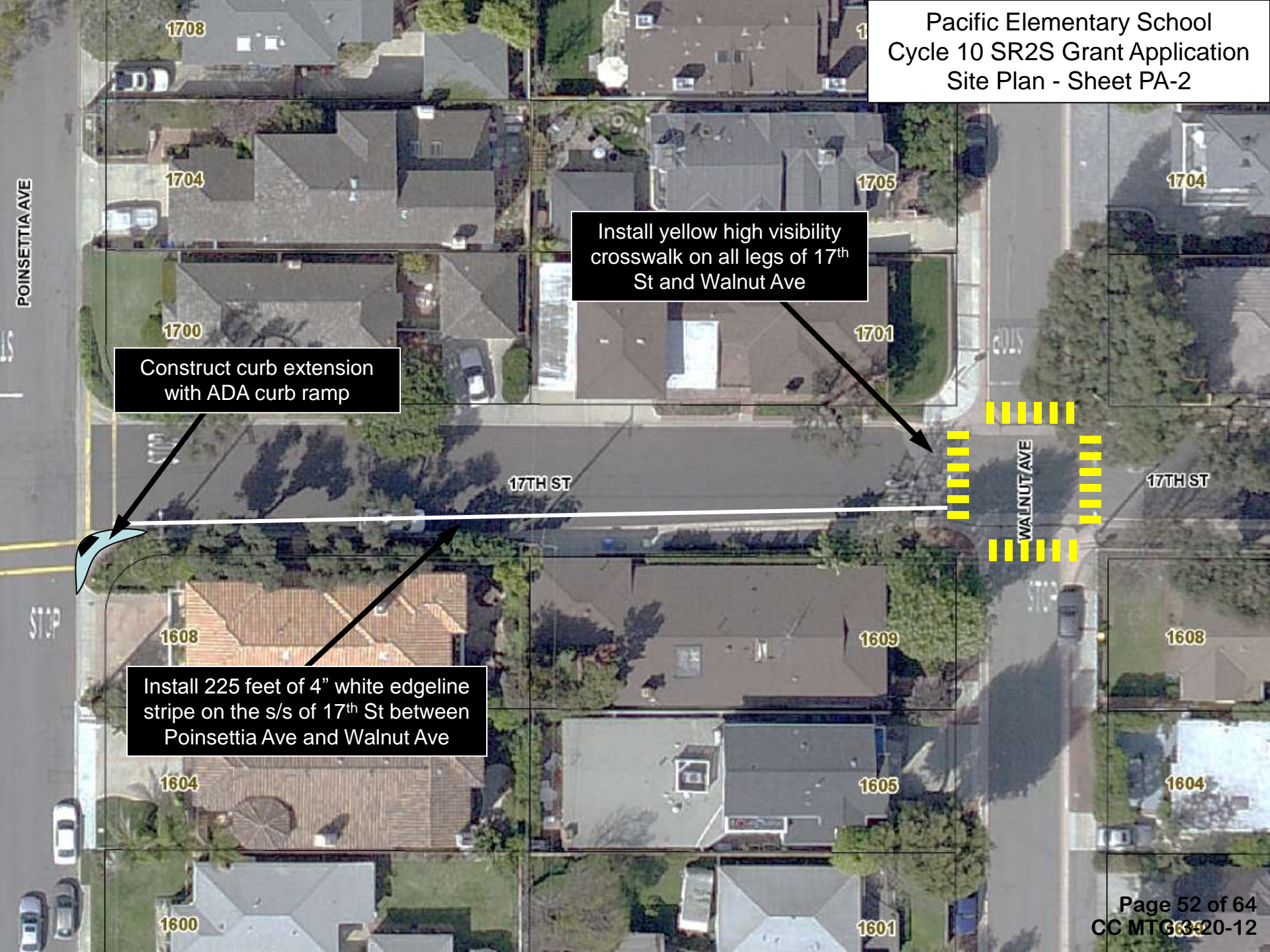
JOHN ST

836

840

Install white surface-mounted
flexible channelizers spaced at
5'-0" on center





Install yellow high visibility crosswalk on all legs of 17th St and Walnut Ave

Construct curb extension with ADA curb ramp

Install 225 feet of 4" white edgeline stripe on the s/s of 17th St between Poinsettia Ave and Walnut Ave



Install white high visibility crosswalk on the east leg of 19th St and Walnut Ave

Install 700 feet of 4" white edgeline stripe on the e/s of Walnut Ave between 17th St and 19th St



Enlarge curb return on the southeast corner of Walnut Ave and Marine Ave

Install 825 feet of 4" white edgeline stripe on the e/s of Walnut Ave between 19th St and Marine Ave



Install 400 feet of 4" white edgeline stripe on the e/s of Walnut Ave between Marine Ave and 27th St

Pennekamp Elementary School
Cycle 10 SR2S Grant Application
General Map - Sheet PE

Remove existing crosswalk
(Sheet PE-3)

Install yellow high visibility
crosswalk (Sheet PE-3)

Install pedestrian activated in-
roadway warning lights at crosswalk
on south leg (Sheet PE-4)

Install solar-powered red flashing
beacons on existing R-1 ("STOP")
signs .Beacons shall be on timer
to coincide with school arrival and
dismissal periods (Sheet PE-2)

Install yellow high visibility
crosswalk on south leg
(Sheet PE-4)

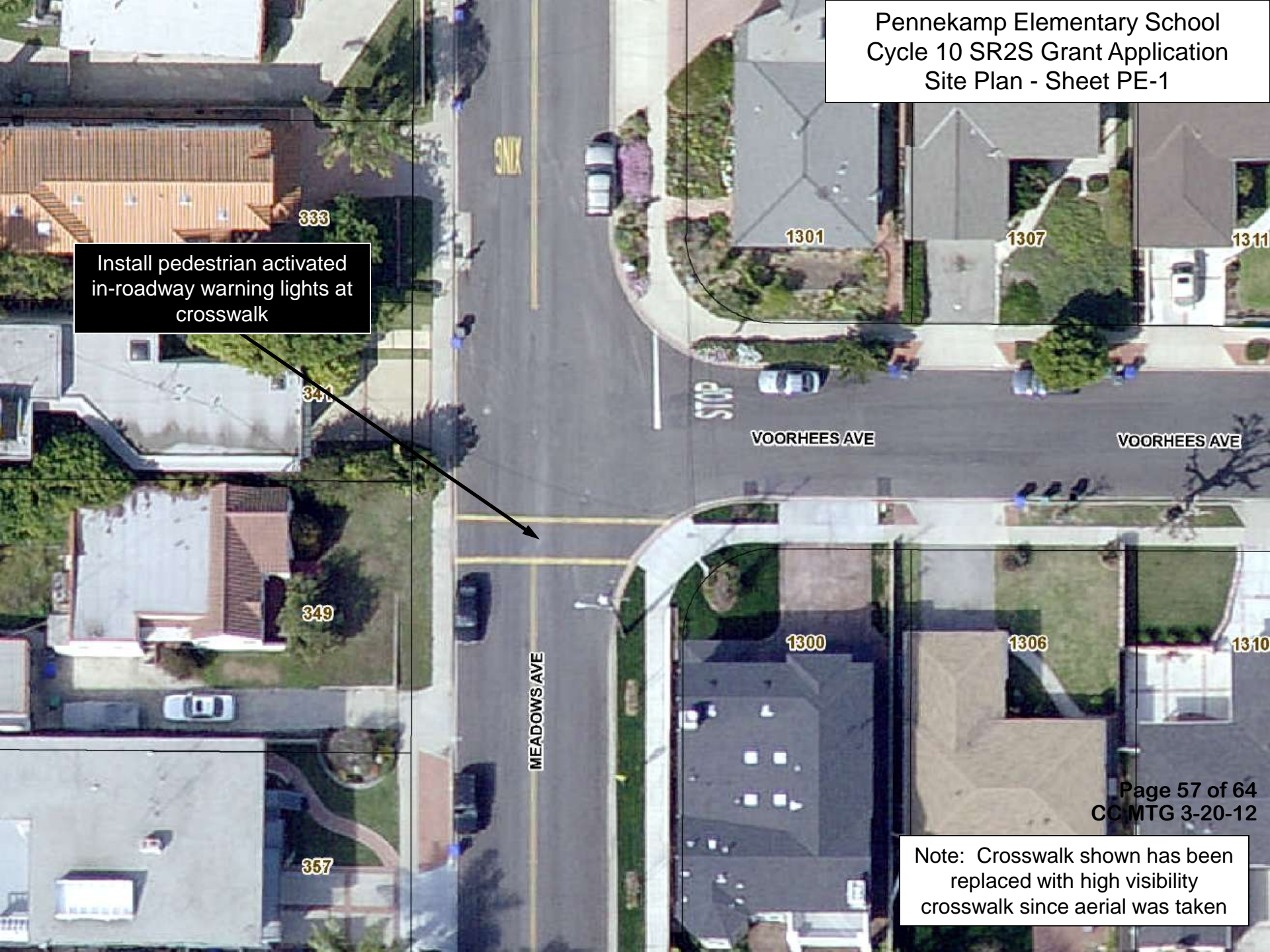
Install pedestrian activated in-
roadway warning lights at crosswalk
on south leg (Sheet PE-1)

Install stop sign (R-1), white limit line
and "STOP" pavement marking at
the end of the loading zone (Sheet PE-2)

Level area and install bike
racks (Sheet PE-2)



Install pedestrian activated
in-roadway warning lights at
crosswalk



Note: Crosswalk shown has been
replaced with high visibility
crosswalk since aerial was taken



Install solar-powered red flashing beacons on existing R-1 ("STOP") signs (3). Beacons shall be on timer to coincide with school arrival and dismissal periods

Install stop sign (R-1), white limit line and "STOP" pavement marking at the end of the loading zone

Level area and install bike racks

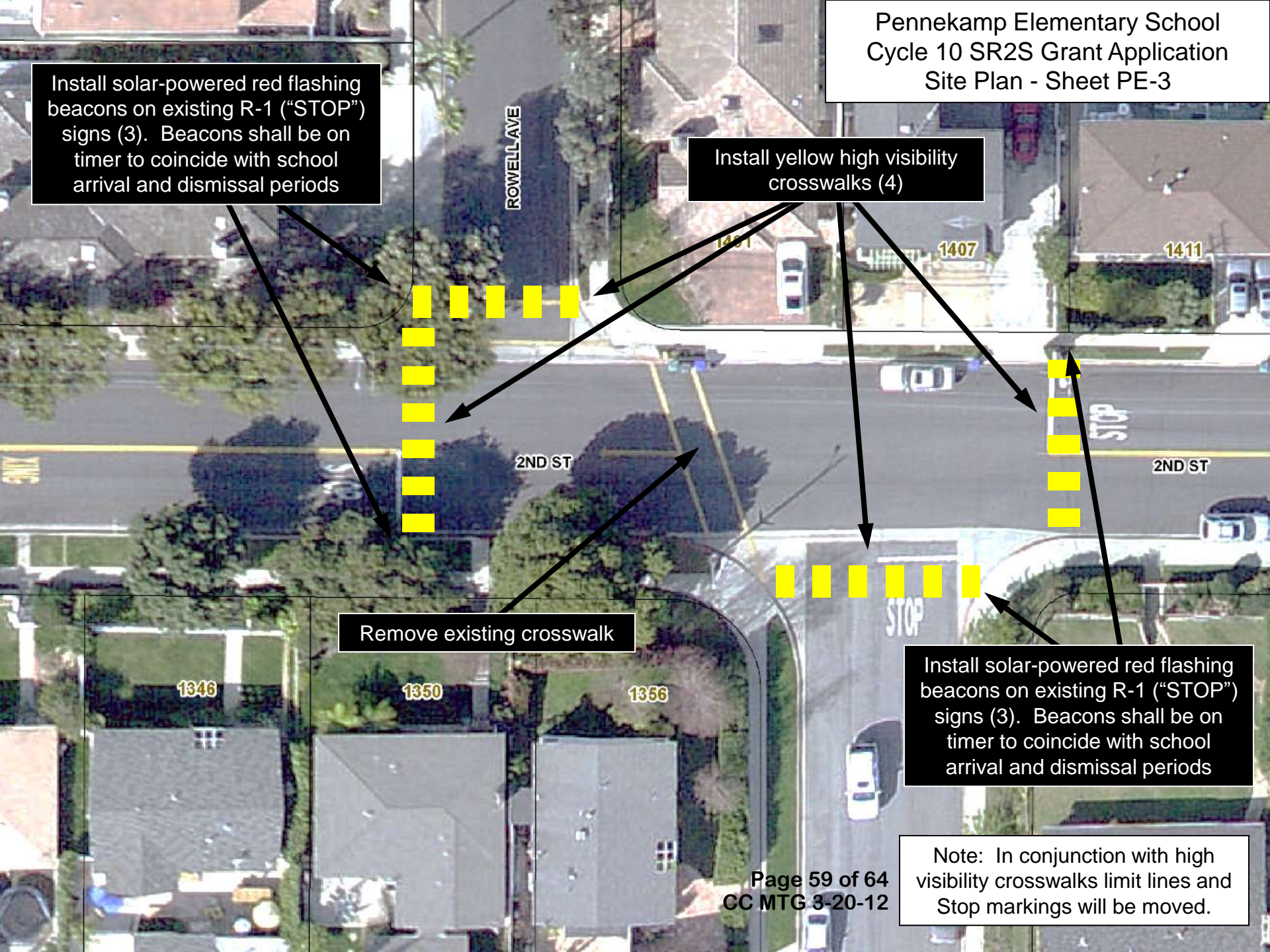
Install solar-powered red flashing beacons on existing R-1 ("STOP") signs (3). Beacons shall be on timer to coincide with school arrival and dismissal periods

Install yellow high visibility crosswalks (4)

Remove existing crosswalk

Install solar-powered red flashing beacons on existing R-1 ("STOP") signs (3). Beacons shall be on timer to coincide with school arrival and dismissal periods

Note: In conjunction with high visibility crosswalks limit lines and Stop markings will be moved.





Install pedestrian activated in-roadway warning lights at crosswalk on south leg

Install yellow high visibility crosswalk on south leg

Robinson Elementary School
Cycle 10 SR2S Grant Application
General Map - Sheet RO



Install R9-3 sign

Install R9-3 and R9-3bP
(Right) signs



R9-3



R9-3bP

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RESOLUTION NO. 6343

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF
MANHATTAN BEACH APPROVING AND AUTHORIZING THE
SUBMITTAL OF A SAFE ROUTES TO SCHOOL GRANT APPLICATION

WHEREAS, the California Department of Transportation (“Caltrans”) has requested applications for the Fiscal Year 2012-13 Safe Routes to School Program, which funds capital projects that remove barriers that improve safety and encourage children to walk and bicycle to school; and

WHEREAS, the City of Manhattan Beach (“City”) is eligible to receive State funding under the Safe Routes to School Program; and

WHEREAS, the City intends to apply for a Safe Routes to School Grant for all Manhattan Beach Schools grades K through 8; and

WHEREAS, a Fund Transfer Agreement must be executed with Caltrans before such funds can be claimed through the Safe Routes to School Grant Application Program.

NOW, THEREFORE, THE COUNCIL OF THE CITY OF MANHATTAN BEACH DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. The above recitals are true and correct.

Section 2. The City Council hereby authorizes the City Manager, or his designee, to submit an application to Caltrans on behalf of the City for a Safe Routes to School Grant.

Section 3. The City Council also authorizes and delegates to the City Manager, or his designee, the authority to execute and submit on behalf of the City all documents, including but not limited to, applications, agreements, amendments, annual reports, expenditure reports and payment requests, which may be necessary for the administration of a Safe Routes to School Grant. This authorization is effective for five (5) years from the date of adoption of this Resolution.

Section 4. This resolution shall take effect immediately upon adoption.

Section 5. The City Clerk shall certify to the adoption of this Resolution.

PASSED, APPROVED, AND ADOPTED this 20th day of March, 2012.

Ayes:
Noes:
Absent:
Abstain:

NICHOLAS W. TELL, JR.
Mayor, City of Manhattan Beach

ATTEST:

_____ (SEAL)
LIZA TAMURA
City Clerk

APPROVED AS TO FORM:

ROXANNE M. DIAZ
City Attorney