



SAN BRUNO RECREATION & AQUATIC CENTER

Advisory Committee Update

August 17, 2022



AGENDA

1. Construction Update and Look Ahead Schedule

- a) Project Information Update
- b) Completed To Date
- c) Change Order Report / Budget Update
- d) Schedule Update
- e) What's Happening Next 30 Days
- f) Solar PV Update
- g) Crystal Spring / Oak Street / City Parkway Intersection
Improvement Update
- h) Softball and RAC Building Relationship

2. Questions

Construction Update and Look Ahead Schedule



PROJECT INFORMATION



Start Date: September 2021



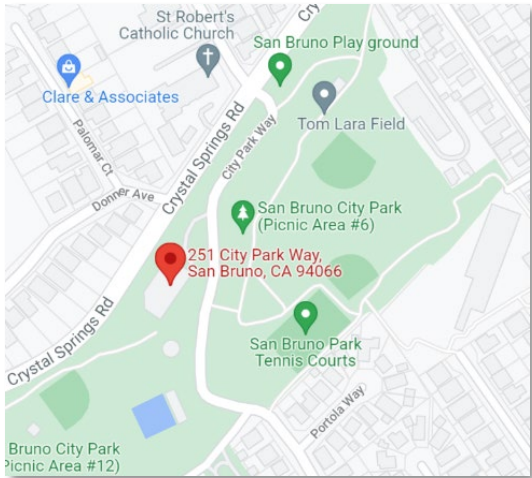
Project Completion: Fall 2023



Estimated Cost Completed To Date: 28.72% (July 2022)



EarthCam Link: https://share.earthcam.net/RecCenterBuild/rec_center_build/camera/view_1



MultiVista Aerial Photo on 8/10/22



Construction Update and Look Ahead Schedule

COMPLETED TO DATE (Through 08/17/22)



July 19, 2022



Concrete
Foundation
Work

August 16, 2022



Steel Framing
Erection

EarthCam Link: https://share.earthcam.net/RecCenterBuild/rec_center_build/camera/view_1

Construction Update and Look Ahead Schedule

COMPLETED TO DATE (Through 08/17/22)



STEEL ERECTIONS PREP WORK

Construction Update and Look Ahead Schedule

COMPLETED TO DATE (Through 08/17/22)



August 1, 2022 – Started Steel Framing Erection

Construction Update and Look Ahead Schedule

COMPLETED TO DATE (Through 08/17/22)



August 1, 2022 – Started Steel Framing Erection

Construction Update and Look Ahead Schedule

COMPLETED TO DATE (Through 08/17/22)



Natatorium Steel Erection Progress

Construction Update and Look Ahead Schedule

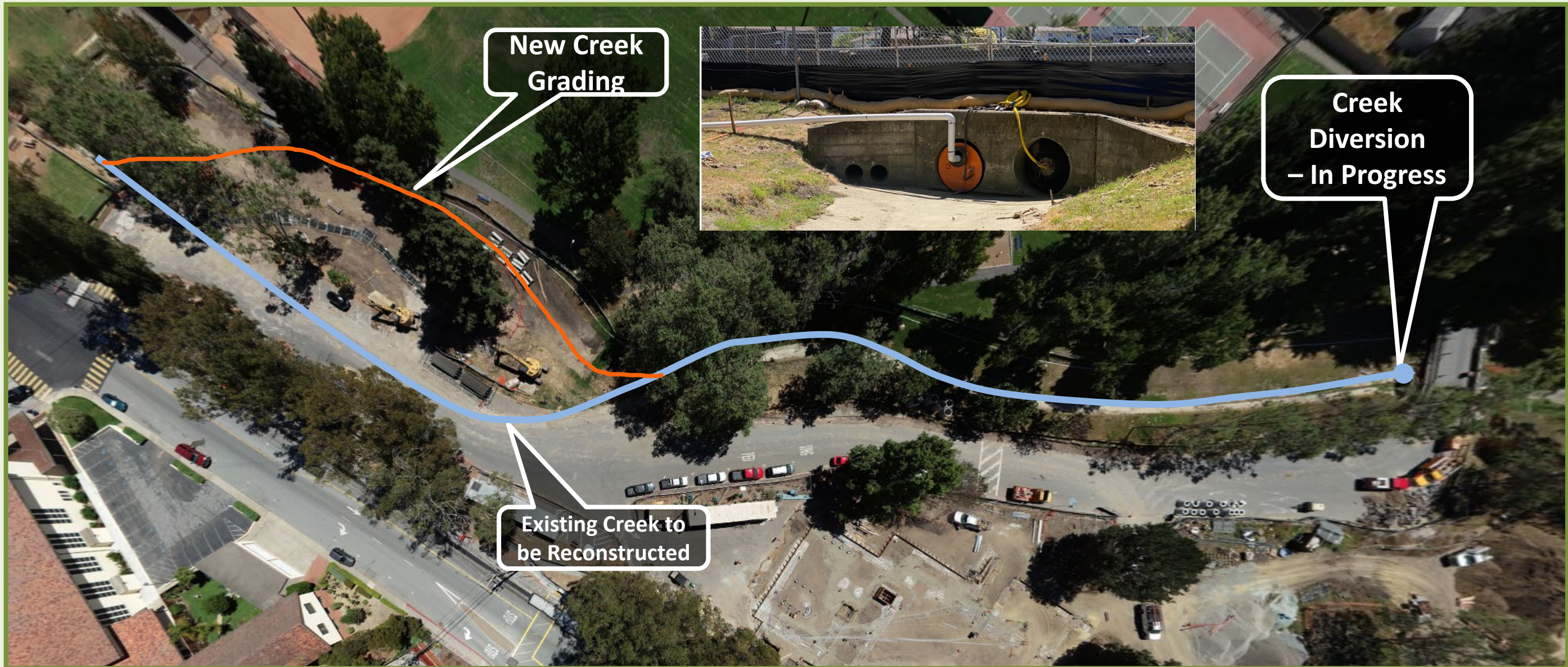
COMPLETED TO DATE (Through 08/17/22)



**BUILDING LINE "A" WALL
(Crystal Spring next to the Shoring Wall)**

Construction Update and Look Ahead Schedule

COMPLETED TO DATE (Through 08/17/22)



CREEK REALIGNMENT WORK



Construction Update and Look Ahead Schedule

COMPLETED TO DATE (Through 08/17/22)



UTILITY WORK

Construction Update and Look Ahead Schedule

COMPLETED TO DATE (Through 08/17/22)



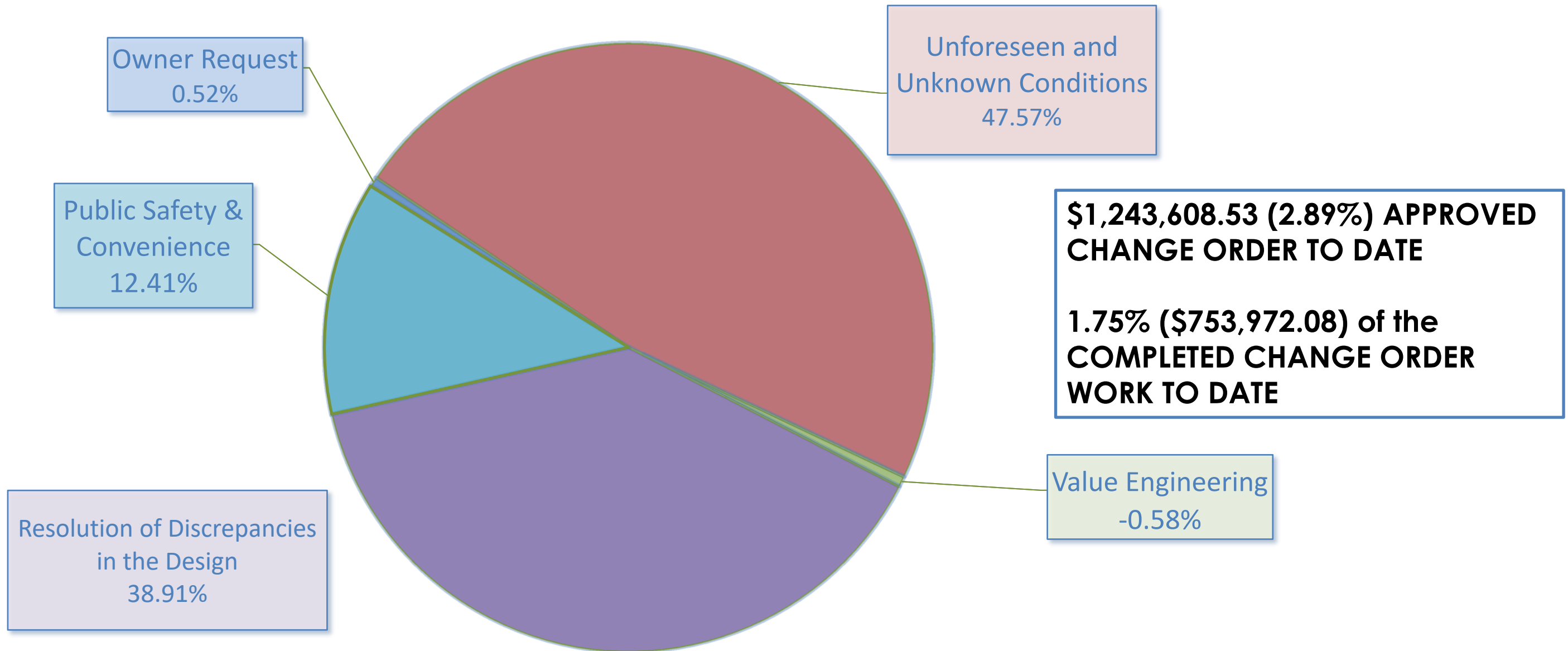
**SEWER PIPE INSTALLATION
PROGRESS**



Construction Update and Look Ahead Schedule



Change Order Report





Construction Update and Look Ahead Schedule

Project Budget Update

Total Project Budget:

- \$60,540,228.00

Total Expenses To Date:

- \$21,724,460.94 (35.88%)

Pre-Construction Phase Cost Total:

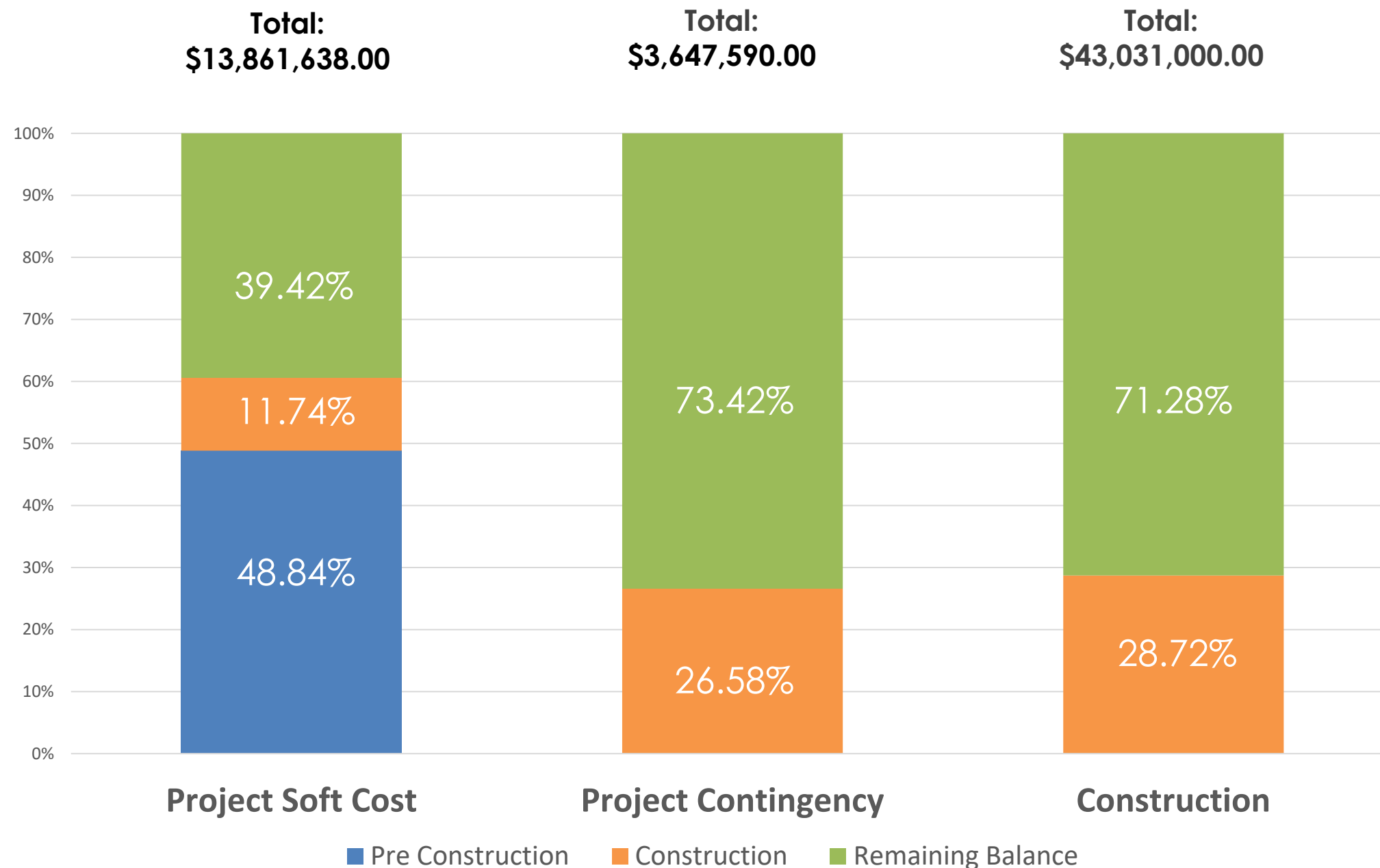
- \$6,770,384.00

Construction Phase Cost To Date:

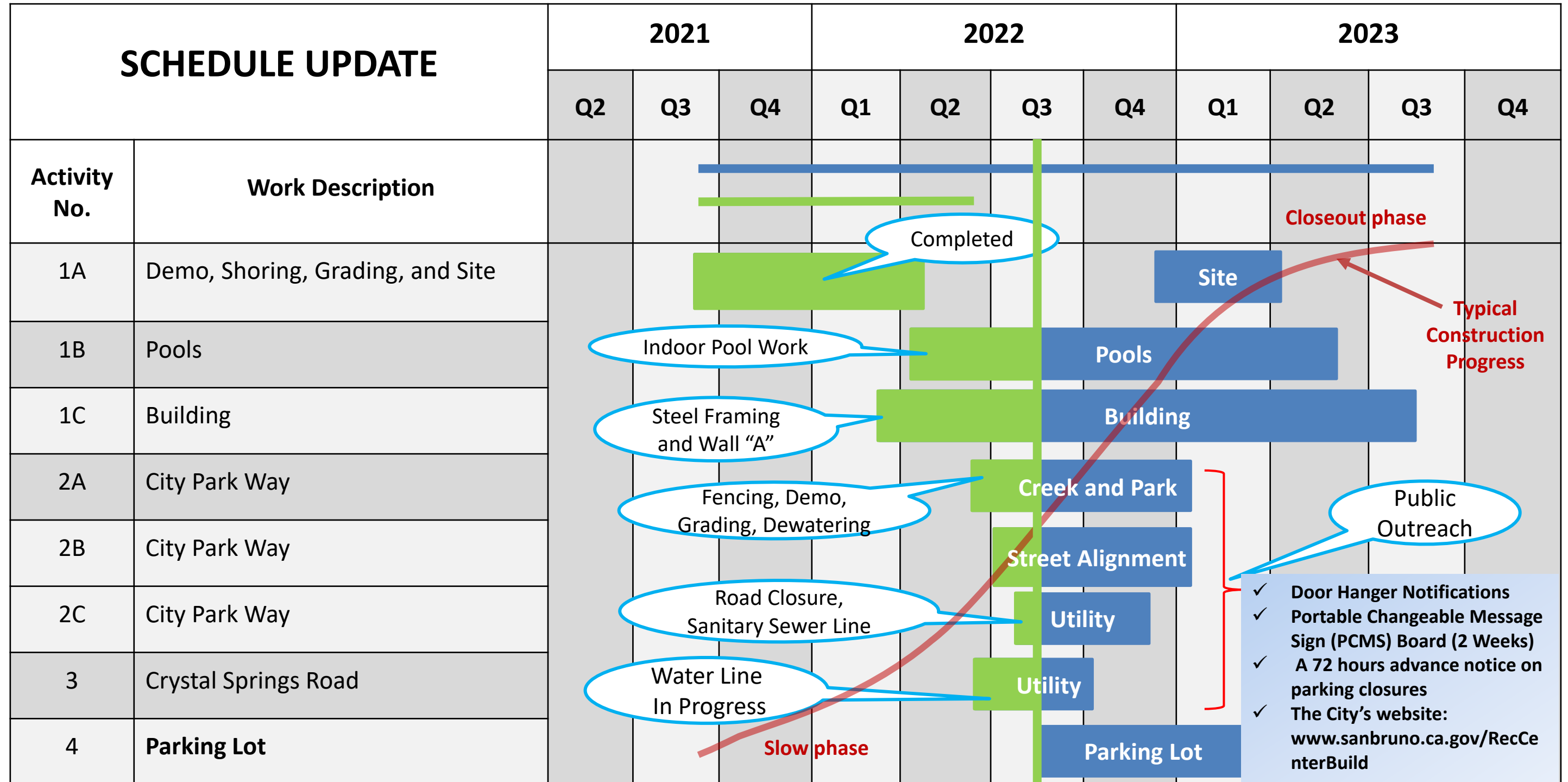
- \$14,954,076.94

SOFT COSTS

- Design (Group 4)
- Environmental
- Project Manager (CPM Associates)
- Construction Manager (Griffin Structures)
- Geotechnical, T&I, Waterproofing, Commissioning Services
- Lara Field Parking Lot
- Traffic Signals, Sewer, Water, Sidewalk, CityNet Fiber
- Temporary Space During Construction
- Furniture Fixtures and Equipment
- Electronic systems and special equipment
- Utility company connection and services
- Fees/ Administration/ Business Plan



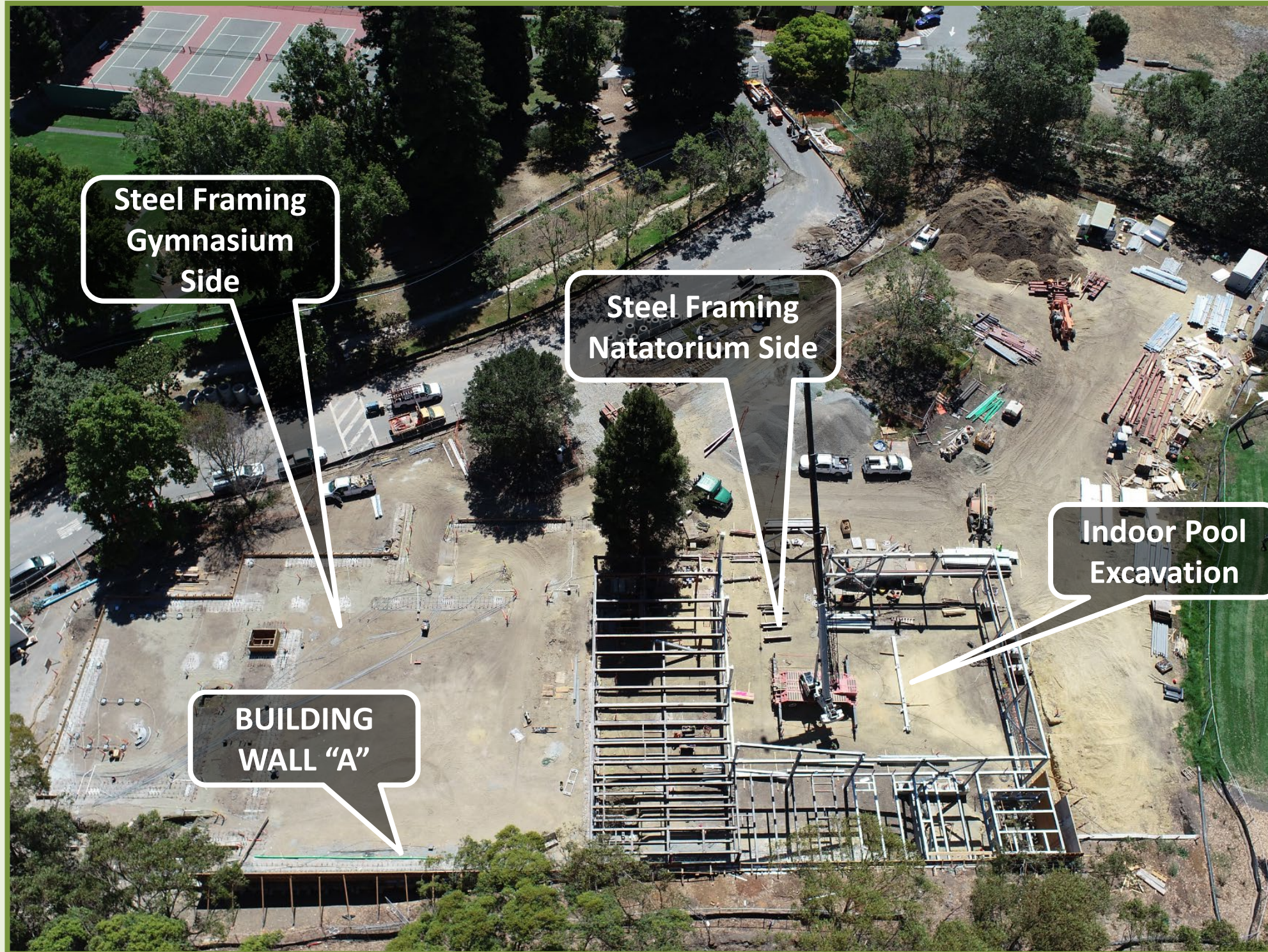
Construction Update and Look Ahead Schedule





Construction Update and Look Ahead Schedule

WHAT'S HAPPENING NEXT 30 DAYS?



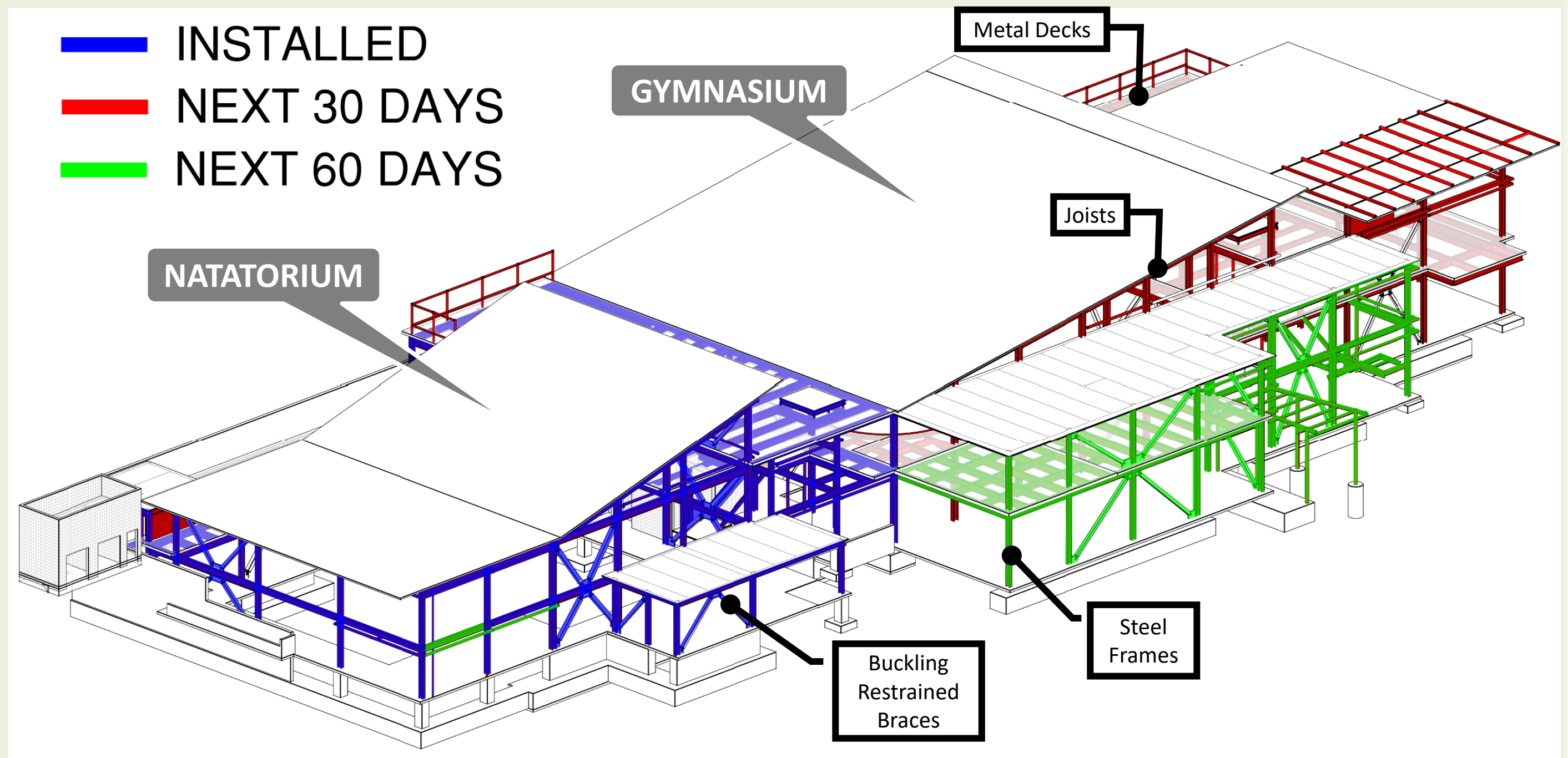
ONSITE WORK

- Steel frame erection of Natatorium and Gymnasium side are in progress.
- Line A rebar and formwork in progress.
- Under Slab Utility (plumbing and Electrical)
- Steel Delivery
- Indoor Pool Excavation



Construction Update and Look Ahead Schedule

WHAT'S HAPPENING NEXT 30 DAYS?



Construction Update and Look Ahead Schedule



WHAT'S HAPPENING NEXT 30 DAYS?



OFFSITE WORK

- City Parkway Road Closure start August 1, 2022
- Creek realignment.
- Demo existing hardscape.
- City Park Way sewer & storm drain in progress.
- City Park Way water main to start.

Construction Update and Look Ahead Schedule




WHAT'S HAPPENING NEXT 30 DAYS?

Anticipated Dates

Activities	Start	Finish
City Park Way Road Closure	8/1/22	12/12/22
Demo Existing Hardscape	8/17/22	8/19/22
Creek Rough Grade Excavation	8/18/22	9/5/22
Creek Channel Construction	9/6/22	10/7/22
City Park Way Storm Drain	8/22/22	9/12/22
City Park Way Sewer Pipe	8/8/22	11/8/22
City Park Way Water Main	9/12/22	10/10/22
City Park Way Site Lighting	10/4/22	12/6/22
City Park Way Paving/Landscaping Finishes	10/18/22	12/12/22

Dates are subject to change.



Notes:
 The road closure/detour will be as follows:
 1) Option #1 
 WB Traffic
 Crystal Springs to El Camino to Santa Lucia Ave
 ED Traffic
 Santa Lucia to El Camino To Crystal Springs



Solar PV Update



Motion to set a Public Hearing date for June 28, 2022

June 14, 2022
(City Council)

June 28, 2022
(City Council)

July/August 2022

City to review PPA (Power Purchase Agreement) with the City Attorney

September 2022

PCE to execute contract with equipment providers

November 2022

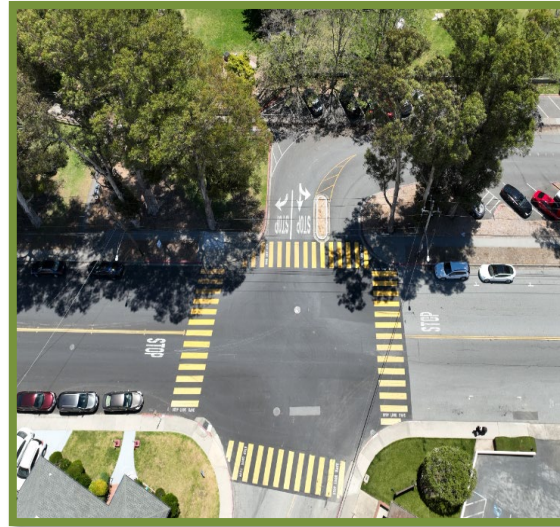
January 2023

Adopt Resolution: "Authorizing City Manager to enter into PPA with PCE"

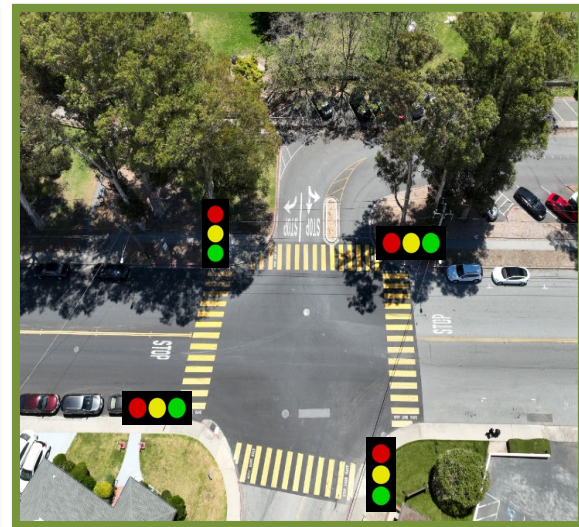
PPA Execution with City Attorney Sign off and City Manager signature

Coordination of installation with RAC Construction

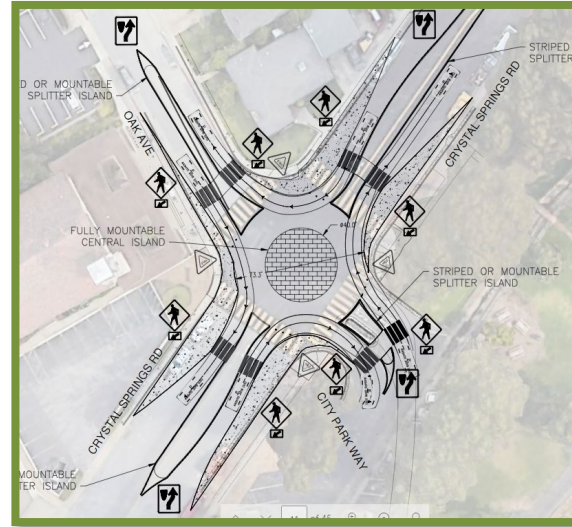
Crystal Spring / Oak Street / City Parkway Intersection Improvement Project Update



All Way Stop (existing)



Traffic Signal System (TSS)



Mini Roundabout (MRA)



Single-lane Roundabout (RA-1)

Traffic Engineer (T.E.) presented intersection traffic control alternatives to (TSPC)Traffic Safety and Parking Committee

Designer to start the design preparation

Award construction

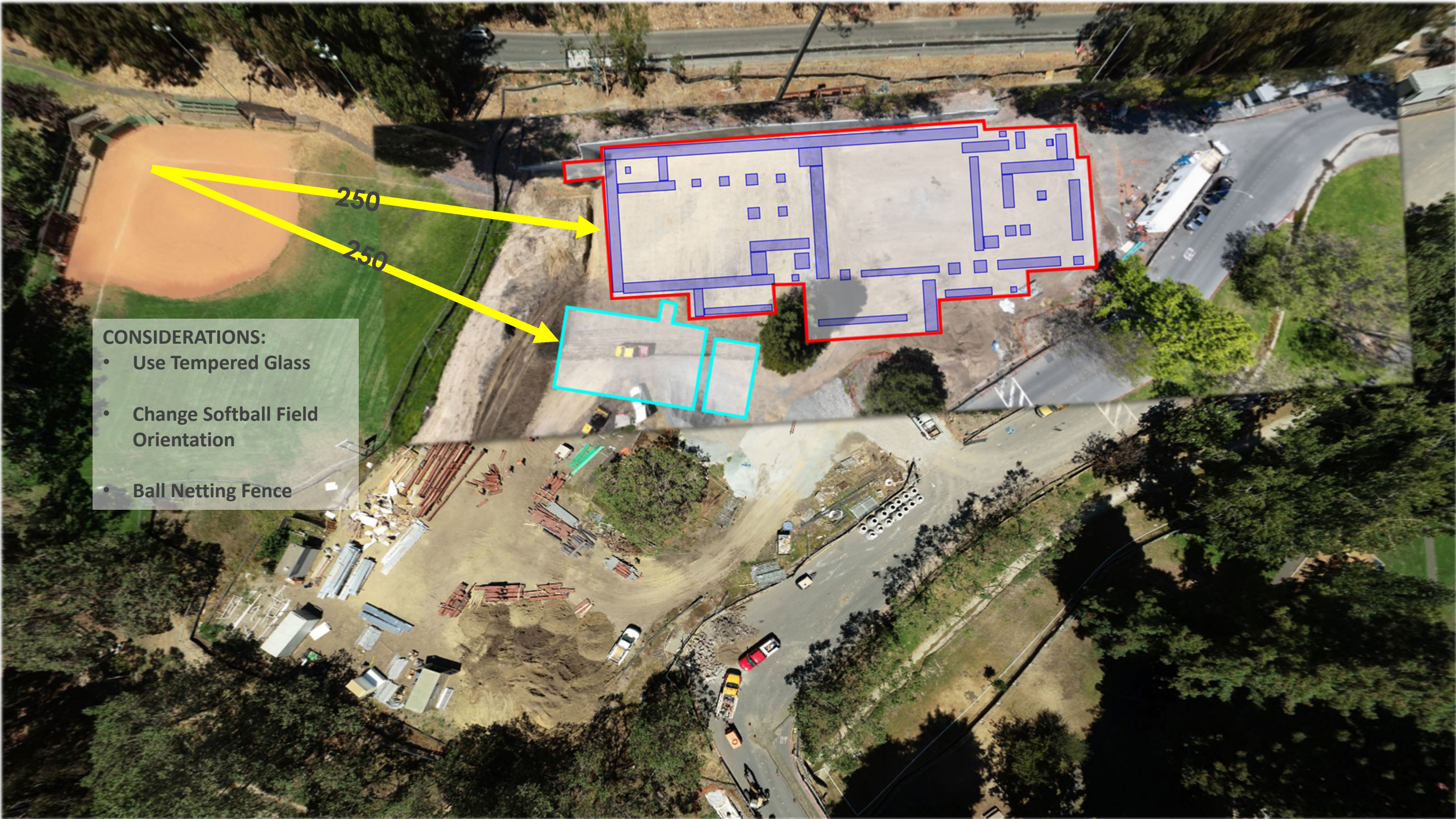


Per Vehicle Code the City Engineer or T.E. to recommend the conclusion of the intersection control study. Memorandum to be issued.

Advertise Project To Receive Bids

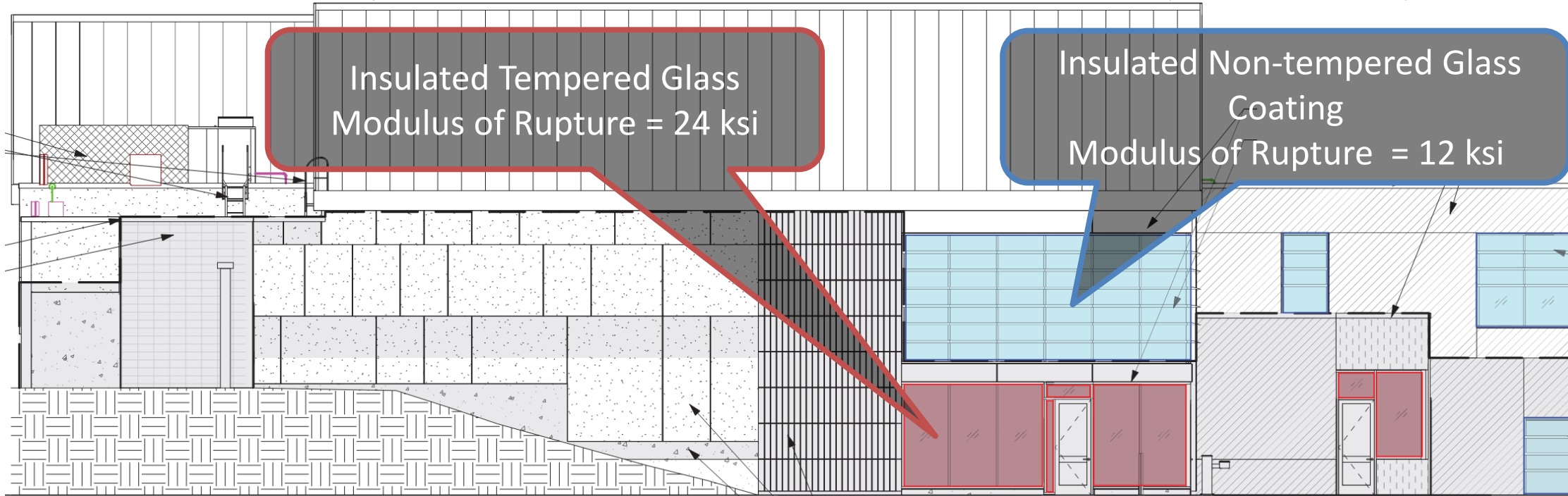
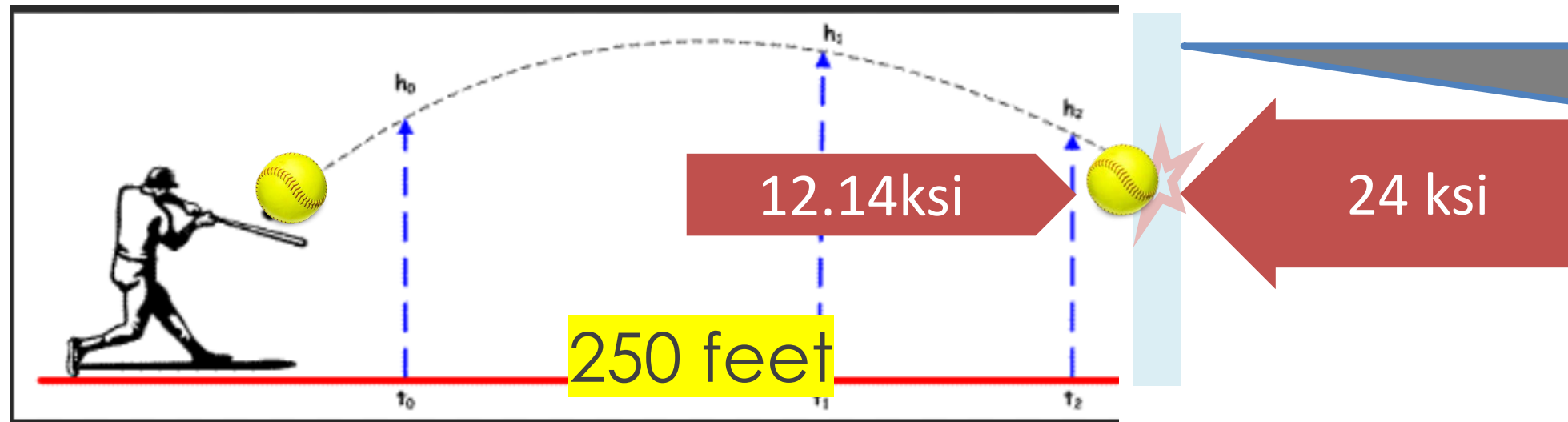
Construction NTP

Softball and RAC Building



- CONSIDERATIONS:**
- Use Tempered Glass
 - Change Softball Field Orientation
 - Ball Netting Fence

Softball Impacts to Glass on South Elevation



South Wall Elevation (Facing Softball Field)

Therefore, a Softball will break normal glass but not tempered glass.

Short term solution: Switch to tempered glass

Long term solution: Reorient softball cage to protect the RAC & outdoor pool

Alternative solution: Construct ball net to protect the RAC & outdoor pool

CONSERVATIVE ESTIMATE
Impact Deflection (d) = 0.79 in
Ball Mass (m) = 0.436 lbs
Ball Speed (v) = 92 mph
Kinetic Energy (KE)
 = $\frac{1}{2}mv^2 = 123.51 \text{ ft-lb}$
KE = $\frac{1}{2}mv^2 = Fd$
 $\Rightarrow F = KE / d = \frac{1}{2}mv^2 / d$
Ball Force (F)
 = $KE / d = 1882.30 \text{ lbfs}$
Impact Area (A) = 0.155 in²
Ball Pressure (P) = F / A
 = 12143.82 psi = 12.14 ksi
 12.14 ksi > 12ksi << 24 ksi
TEMPERED GLASS REQUIRED

THANK YOU

sanbruno.ca.gov/RecCenterBuild