



ORTEGA PARK PRELIMINARY DESIGN

VICINITY MAP



PROJECT INFORMATION
 Park Name: Ortega Park
 Owner: City of Santa Barbara, Parks and Recreation Department
 Owner's Representative: Jill Zachary, Parks and Recreation Director
 Project Address: 604 East Ortega Street Santa Barbara, CA 93103
 Accessors Parcel Number: 031-172-002
 Zone: P-R (Parks and Recreation)
 General Plan: Parks and Open Space
 Occupancy Type
 Flood Zone 2019: AH

PROJECT DESCRIPTION

The Parks and Recreation Department is leading an effort to renovate Ortega Park. Following an extensive community engagement process, a master plan was developed and approved by City Council in January 2019. The Ortega Park renovation plan proposes a new community swimming pool, skate park, restrooms, playground, picnic area, outdoor game area, and formal ball fields. New street parking is also proposed that is aligned perpendicular to the curb on Salispuedes St. and angled to the Ortega St. curb. The project represents a complete renovation and update of Ortega Park that is envisioned to make significant facility upgrades, expand recreational activities for all ages, and create a cohesive landscape plan for one of Santa Barbara's largest urban parks.

There are currently 40 trees proposed for removal and 108 trees proposed for planting. There are 18 trees to remain on the project site. See Existing Condition and Demolition Plan on sheet D-1 and sheet L-9 for location, quantity, size, and species of trees proposed.

PROJECT STATISTICS

PARCEL SIZE:	5.46 ACRES (237,970 SF)	
TOTAL DEVELOPMENT AREA:	5.67 ACRES (247,047 SF)	
PROPOSED IMPERVIOUS AREA:	2.0 ACRES (87,034 SF)	
PROPOSED PERVIOUS AREA:	3.67 ACRES (160,013 SF)	
ON SITE (PARK INTERIOR)	4.71 ACRES (205,016 SF)	
EXISTING IMPERVIOUS AREA:	32,570 SF	
EXISTING PERVIOUS AREA:	172,446 SF	
PROPOSED IMPERVIOUS AREA:	60,114 SF	
PROPOSED PERVIOUS AREA:	144,902 SF	
PROPOSED LANDSCAPE AREA:	43,437 SF	
PROPOSED SYNTHETIC TURF:	93,452 SF	
RIGHT-OF-WAY (OFF-SITE):	0.96 ACRES (42,031 SF)	
EXISTING IMPERVIOUS AREA:	22,671 SF	
EXISTING PERVIOUS AREA:	19,360 SF	
PROPOSED IMPERVIOUS AREA:	26,920 SF	
PROPOSED PERVIOUS AREA:	15,111 SF	
PROPOSED LANDSCAPE AREA:	4,109 SF	
BUILDING SQUARE FOOTAGE	AREA (S.F.)	
EXISTING	GROSS	NET
WELCOME HOUSE	1,604 SF	1,478 SF
RESTROOM BUILDING	577 SF	529 SF
POOL EQUIPMENT BUILDING	557 SF	510 SF
DEMOLISHED		
RESTROOM BUILDING	577 SF	529 SF
POOL EQUIPMENT BUILDING	557 SF	510 SF
PROPOSED		
RESTROOM BUILDING	2019 SF	1825 SF
POOL EQUIPMENT BUILDING	1167 SF	1082 SF
TOTAL AT PROJECT COMPLETION	4790 SF	4385 SF
ACCESSORY STRUCTURE SQUARE FOOTAGE	AREA (S.F.)	
PROPOSED	GROSS	NET
PERGOLA 1	528 SF	324 SF
PERGOLA 2	528 SF	324 SF
PERGOLA 3	528 SF	324 SF
TRASH ENCLOSURE	180 SF	183 SF

PARKING

AUTO PARKING	SPACE COUNT
EXISTING PARKING SPACES REMOVED:	40
EXISTING PASSENGER LOADING:	0
PROPOSED PARKING SPACES:	63
PROPOSED PASSENGER LOADING SPACES:	3
VEHICLE PARKING REQUIRED:	-
AS DETERMINED BY THE COMMUNITY DEVELOPMENT DIRECTOR IN CONSULTATION WITH THE PUBLIC WORKS DIRECTOR.	
BICYCLE PARKING PROVIDED:	24
BICYCLE PARKING REQUIRED:	-
AS DETERMINED BY THE PUBLIC WORKS DIRECTOR PER MUNICIPAL CODE 30.175.040. SEE SHEET L-2 FOR LOCATIONS AND QUANTITY OF BIKE RACKS PROPOSED.	

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ORTEGA PARK TITLE SHEET



DESIGN KEY

GENERAL PARK IMPROVEMENTS

- 1 EXISTING BIKE PATH
- 2 EXISTING PARKWAY & STREET TREES
- 3 EXISTING TREES TO REMAIN WITH LAWN (SEE DEMO SHEET)
- 4 6' DECORATIVE FENCE WITH PILASTERS
- 5 BACK-IN ANGLED PARKING WITH SIDEWALK
- 6 PARK RESTROOM
- 7 STAMPED CONCRETE ENTRY PROMENADE
- 8 OPEN GRASS AREA
- 9 DROUGHT TOLERANT PLANTER AREA
- 10 SECONDARY ACCESS GATE (MAINTENANCE & PEDESTRIAN EXIT)
- 11 PILASTERS WITH ROLLING GATE
- 12 PILASTERS WITH SWING GATE
- 13 ENTRY PLAZA WITH PARK SIGN, PER CITY OF SB STANDARD
- 14 HEAD-IN PARKING SPACES WITH EV CHARGING WHERE SHOWN
- 15 SPACE FOR TEMPORARY POP-UP TENTS & GATHERING
- 16 SEAT WALLS (18")
- 17 TRASH ENCLOSURE WITH OVERHEAD TRELLIS (PATH OF TRAVEL AS SHOWN ON PLAN)
- 18 BIKE RACKS (12 RACKS, 2 BICYCLES PER RACK, TYP. = 24)
- 19 IRON TREE GRATE, TYP.
- 20 IRON TRENCH GRATE, TYP.
- 21 BENCH
- 22 POOL SHOWERS
- 23 RELOCATED WELL, PER CITY OF SB
- 24 PUBLIC ART OR MURAL LOCATION

POOL AREA

- 25 POOL FACILITIES BUILDING AND PARK RESTROOMS
- 26 AQUATIC MECHANICAL AND CHEMICAL BUILDING
- 27 EXISTING WELCOME HOUSE AND POOL FACILITY ENTRY
- 28 WET PLAY/ WADING POOL (CAPACITY = 63 PEOPLE)
- 29 POOL SLIDE FEATURE
- 30 NON-COMPETITIVE LAP POOL (CAPACITY = 140 PEOPLE)
- 31 OVERHEAD SHADE STRUCTURE
- 32 CHANGING ROOMS
- 33 6' POOL PERIMETER FENCE

SKATE PLAZA

- 34 CONCRETE SKATE PARK
- 35 SKATE PARK ENTRY FROM PARK
- 36 RETAINING WALL (36")

FAMILY PICNIC AREA & PLAYGROUND

- 37 SPLASH PAD IN PLAZA (RECIRCULATING, SEASONAL USE ONLY)
- 38 TRASH AND RECYCLING RECEPTACLES, PER CITY STANDARD
- 39 COLORIZED RUBBER SURFACING
- 40 FAMILY PICNIC AREA
- 41 PLAY EQUIPMENT (2-5 YEARS, 5-12 YEARS)
- 42 SHADE SAILS
- 43 CONCRETE PICNIC TABLES
- 44 4' SAFETY FENCE AT PLAYGROUND

MULTI-GENERATIONAL ACTIVITY ZONE

- 45 RAISED PLANTERS WITH SEATING (18")
- 46 BASKETBALL
- 47 CONCRETE CORNHOLE
- 48 DURABLE OUTDOOR PING PONG TABLES
- 49 BOCCIE BALL COURT
- 50 GAME TABLES

MULTI-SPORT FIELD AREA

- 51 MULTI-SPORT SYNTHETIC TURF WITH LIGHTING
- 52 BACKSTOP WITH ROOM FOR SEATING
- 53 YOUTH BASEBALL STRIPING ON SYNTHETIC TURF
- 54 SECONDARY PEDESTRIAN ENTRANCE
- 55 FIELD ENTRANCE WITH SLIDING GATE AND PILASTERS
- 56 4' DECORATIVE FENCE
- 57 SOCCER FIELD PROMENADE

**REFER TO ARCHITECTURAL SHEETS FOR BUILDING DIMENSIONS & MATERIALS



KEYMAP



ORTEGA PARK PERSPECTIVE RENDERING #1

#1144-03-RC19
JULY 2020



KEYMAP



ORTEGA PARK PERSPECTIVE RENDERING #2

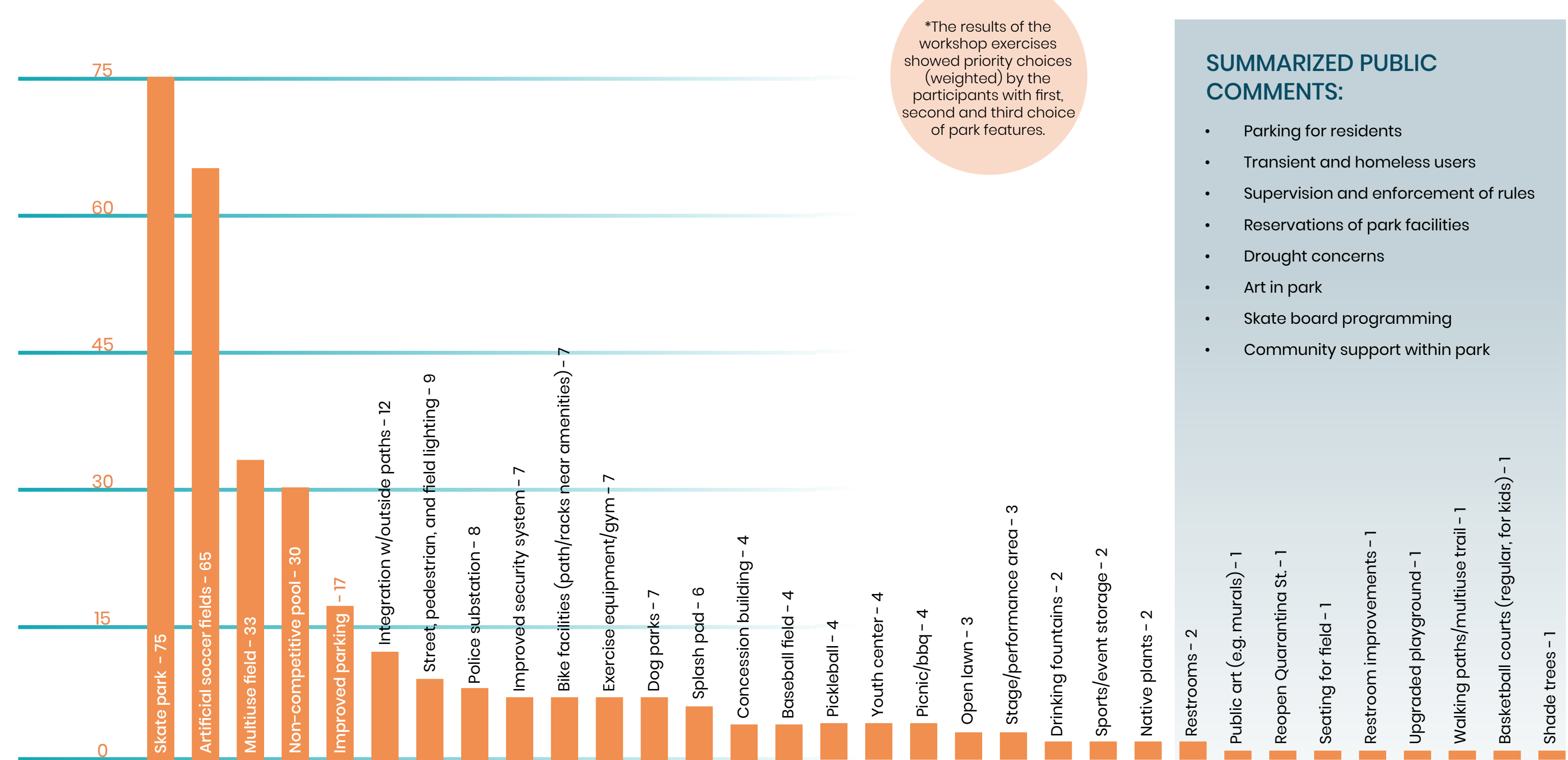
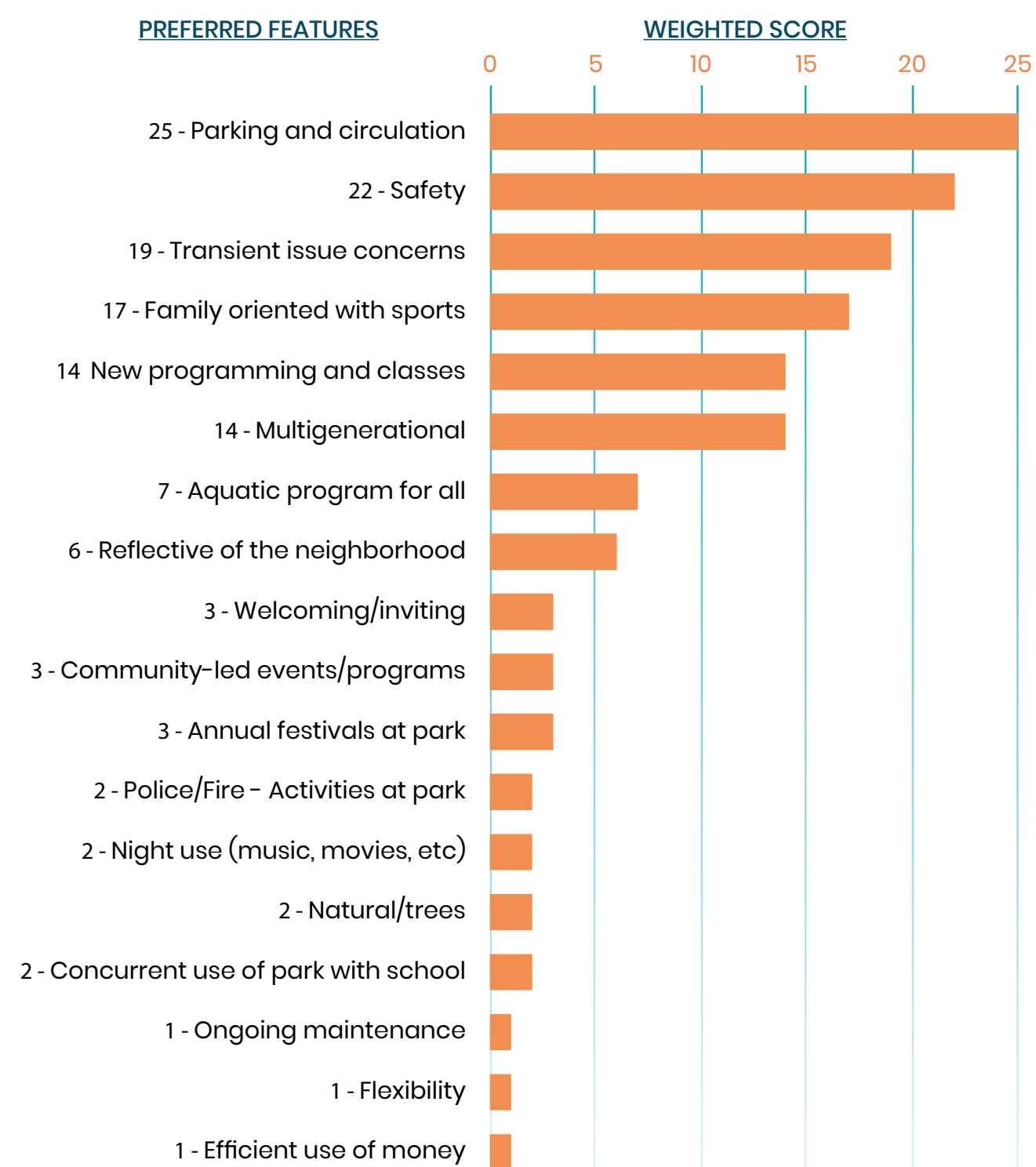
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JULY 2020



KEYMAP



ORTEGA PARK PERSPECTIVE RENDERING #3



SKATE PARK

MASTER PLAN WORKSHOP 1 SUMMARY RESULTS



CONCRETE PING PONG



CONCRETE CORNHOLE



SHADE SAILS



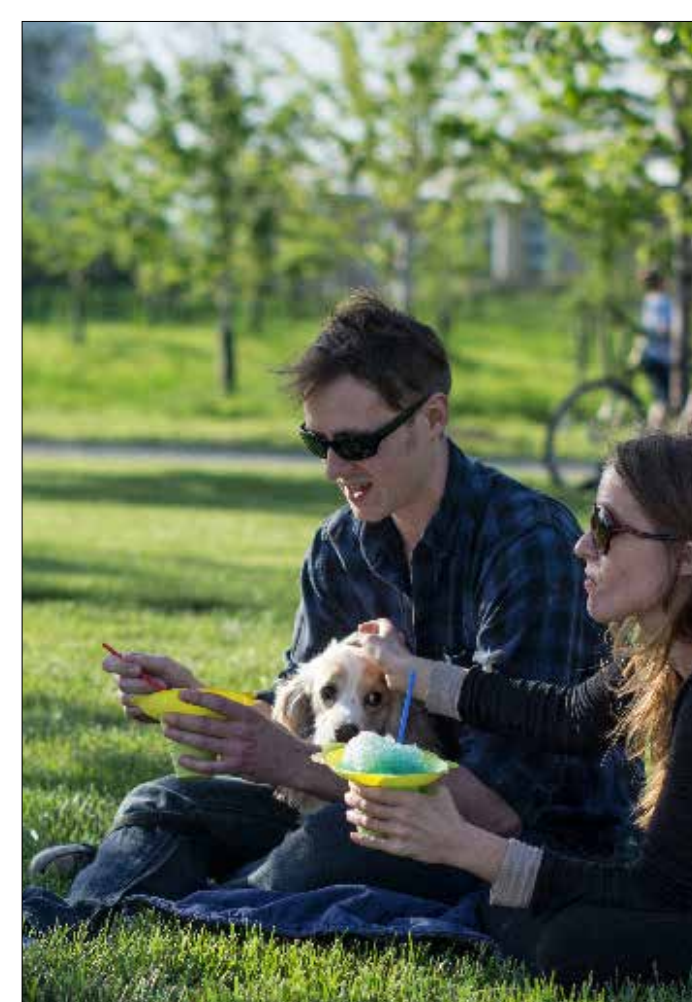
MULTI-SPORT SYNTHETIC FIELD AREA



BOCCE BALL



BASKETBALL



OPEN LAWN AREA



SPLASH PAD



WET PLAY & POOL



POOL SLIDE

MULTI-GENERATION ACTIVITY AREA

CENTRAL BBQ AND PICNIC AREA

POOL AREA



HEMISPHERE CLIMBER



RHAPSODY MUSIC EQUIPMENT



CORKSCREW NET CLIMBER



ECLIPSE CLIMBER



CURVA SPINNER



GLOBE SPINNER (OPTION)



ECLIPSE CLIMBER



MUSIC PLAY



OODLE SWING



MUSIC PLAY



RHAPSODY CASCATA BELLS



ORTEGA PARK PLAY EQUIPMENT

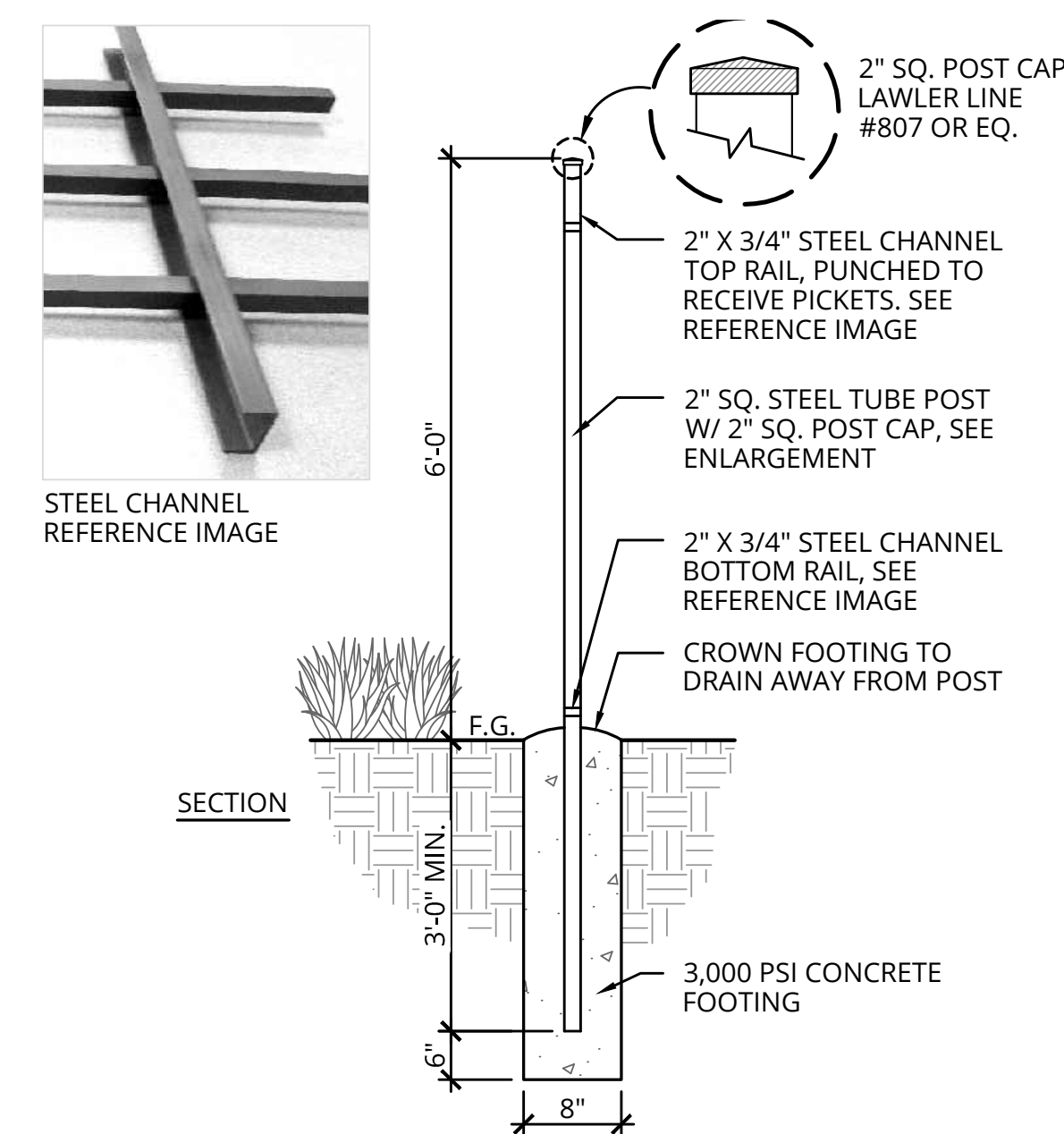
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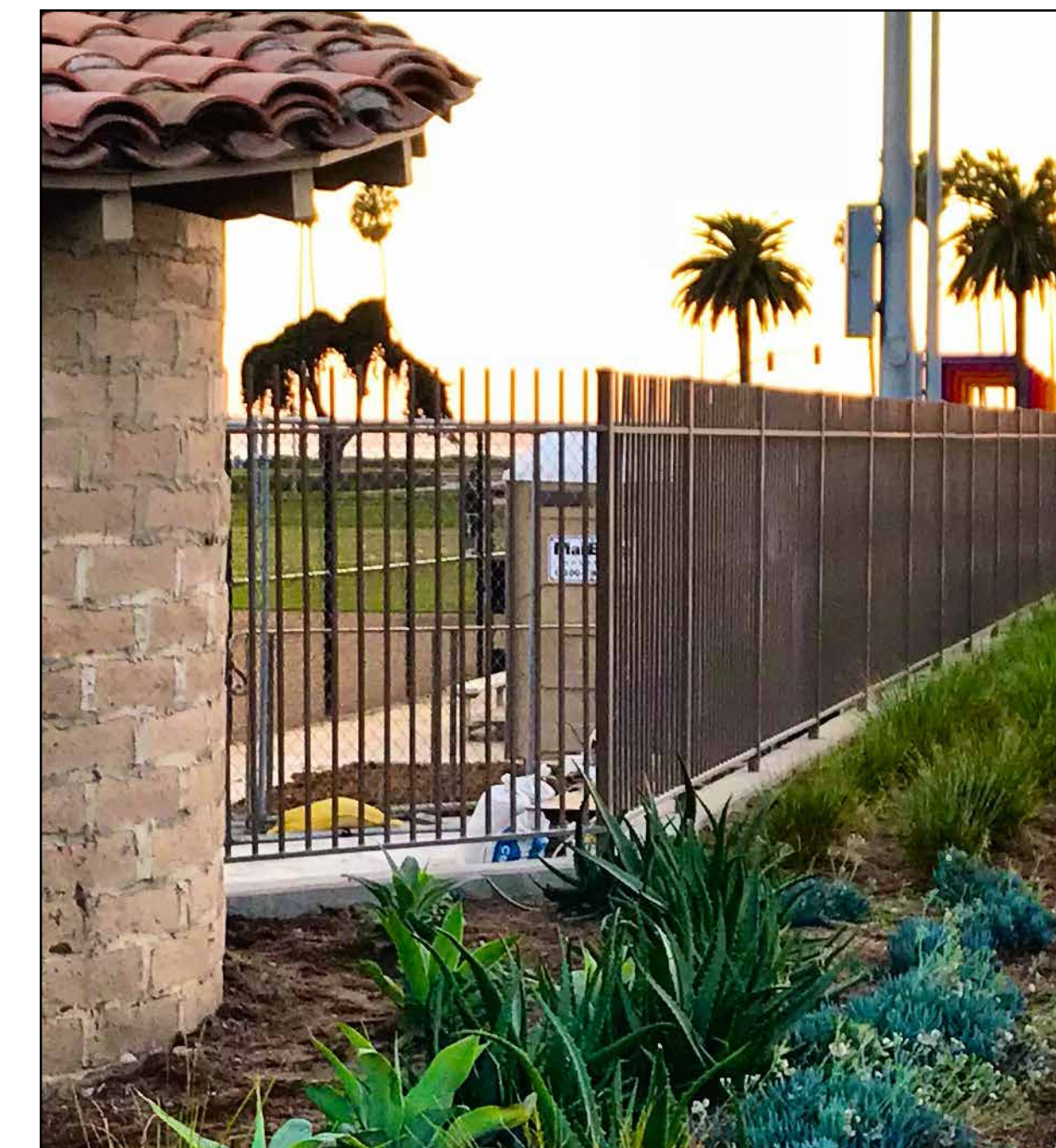
PUBLIC ART



SITE PILASTERS



FENCING
2" TUBULAR STEEL WITH SQUARE POST



FENCING
AS SHOWN AT CABRILLO BALL FIELD IN COLOR 'MOCHA'



UMBRELLAS AT POOL



CONCRETE SEAT WALLS



CONCRETE PICNIC TABLE



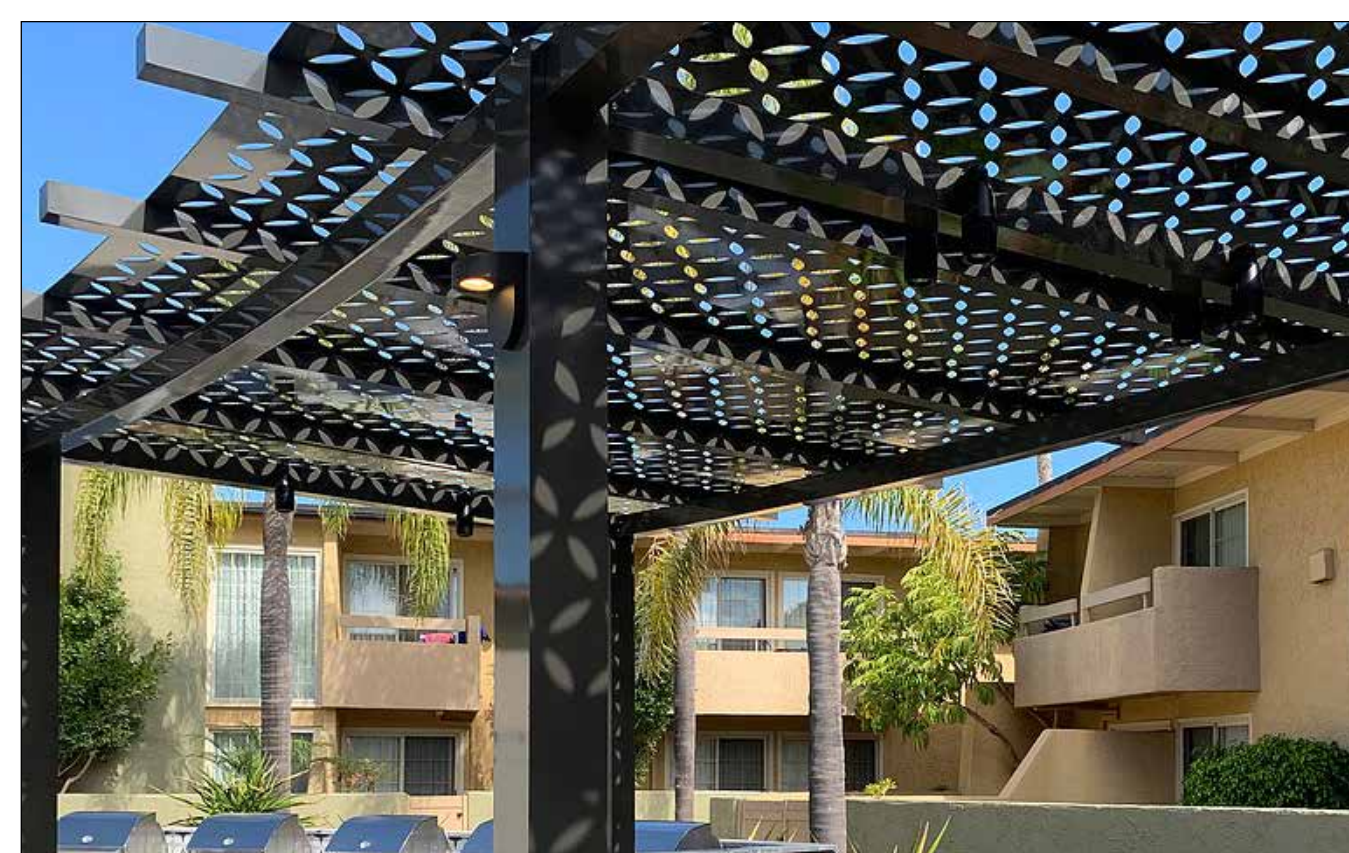
GAME TABLES



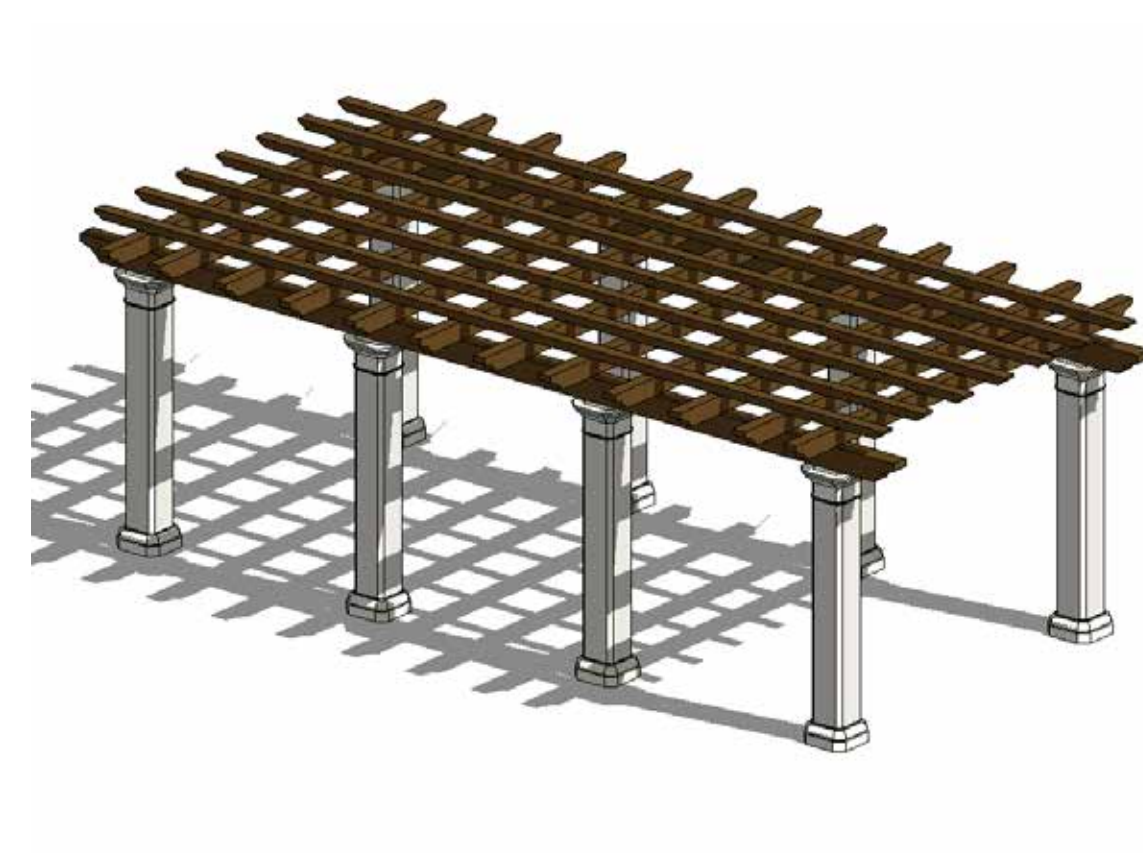
BIKE RACK
ACCOMODATES 2 BICYCLES PER RACK



WOOD STAMPED CONCRETE



SHADE STRUCTURE



SHADE STRUCTURE



KINETIC ART ELEMENT



BENCH
VICTOR STANLEY: CBF-12 CITY SITES COLLECTION



TRASH RECEPTACLE
STANDARD RECEPTACLE TO BE PROVIDED BY PARKS AND RECREATION, IN COORDINATION WITH PUBLIC WORKS. 'INDUSTRIAL' EXAMPLE IMAGE SHOWN PER CITY OF SANTA BARBARA'S MASTER CONTAINER LIST



CONCRETE WITH SCORING



ORTEGA PARK SITE FURNISHINGS AND MATERIALS



*SEE EXISTING CONDITIONS AND DEMO PLAN FOR EXISTING TREES TO BE REMOVED OR PROTECTED

PROPOSED PLANT PALETTE

SHADE TREES	(24-36" BOX)	QTY 47
SUCH AS: CINNAMOMUM CAMPHORA PLATANUS RACEMOSA KOELREUTERIA BIPINNATA ZELKOVA SERRATA 'VILLAGE GREEN' GINGKO BILOBA 'AUTUMN GOLD'	CAMPHOR TREE MEXICAN SYCAMORE CHINESE FLAME TREE 'VILLAGE GREEN' ZELKOVA MAIDENHAIR	

STREET TREES	(36" BOX)	QTY 12
* PINUS CANARIENSIS + ZELKOVA SERRATA 'HALKA' * STENOCCARPUS SINUATUS + GINGKO BILOBA 'AUTUMN GOLD' + KOELREUTERIA BIPINNATA	CANARY ISLAND PINE (SALSIPUEDES ST.) SAWLEAF ZELKOVA (SALSIPUEDES ST.) FIREWHEEL TREE (E. ORTEGA ST.) MAIDENHAIR CHINESE FLAME TREE	

* PER CITY OF SANTA BARBARA STREET TREE DESIGNATION & STREET TREE MASTER PLAN
+ INDICATES SPECIES IS UNDER REVIEW FOR N. SALSIPUEDES ST. CO-DESIGNATION (PRC)

ACCENT TREES	(24" BOX)	QTY 39
SUCH AS: CASSIA LEPTOPHYLLA BRAHEA ARMATA JUBAEA CHILENSIS LAGERSTROEMIA INDICA OLEA EUROPAEA 'MAJESTIC BEAUTY' TM TABEBOUA IMPETIGINOSA	GOLDEN MEDALLION TREE MEXICAN BLUE PALM CHILEAN WINE PALM CRAPE MYRTLE MAJESTIC BEAUTY FRUITLESS OLIVE PINK TRUMPET TREE	

FOCAL AREA/ ENTRY TREES	(48" BOX)	QTY 10
SUCH AS: ARCHONTOPHOENIX CUNNINGHAMIANA CEIBA SPECIOSA PHOENIX CANARIENSIS JACARANDA MIMOSIFOLIA	MULTI-TRUNK KING PALM FLOSS SILK TREE CANARY ISLAND DATE PALM JACARANDA MULTI-TRUNK	

SHRUBS, GRASSES, AND GROUNDCOVERS	(1, 5, 15 GAL)	QTY 1,672 34,209 SF (ALL LOW WATER USING)
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- SUCH AS:
- ACACIA COGNATA 'COUSIN ITT'
 - AEONIUM URBICUM
 - AGAVE ATTENUATA 'NOVA'
 - AGAVE VILMORINIANA
 - AGAVE X 'BLUE GLOW'
 - ALOE SPP.
 - ALYOGYNE HUEGELII 'SANTA CRUZ'
 - ANIGOZANTHOS X 'BUSH BABY'
 - BACCHARIS X 'PIGEON POINT'
 - BULBINE FRUTESCENS
 - CAESALPINIA SPP.
 - CEANOTHUS SPP.
 - CERCIS 'RISING SUN'
 - CAREX DIVULSA
 - CEANOTHUS GRISEUS HORIZONTALIS
 - CISTUS PULVERULENTUS 'SUNSET'
 - CHONDROPETALUM TECTORUM
 - DIETES GRANDIFLORA
 - ECHEVERIA X 'AFTERGLOW'
 - FURCREA FOETIDA MEDIOPICTA
 - KNIPHOFIA UVARIA 'MALIBU YELLOW'
 - LEUCADENDRON X 'PERRY'S RED'
 - LEUCADENDRON X 'SAFARI GOLD STRIKE'
 - LEUCOSPERMUM CORDIFOLIUM
 - LEYMUS CONDENSATUS 'CANYON PRINCE'
 - LOMANDRA HYSTRIX 'TROPIC BELLE'
 - LOMANDRA LONGIFOLIA 'BREEZE'
 - MUHLENBERGIA SPP.
 - OLEA EUROPAEA 'LITTLE OLLIE'
 - PENNISETUM SPATHIOLATUM
 - PHORMIUM X 'YELLOW WAVE'
 - SALVIA LEUCANTHA 'SANTA BARBARA'
 - SALVIA X 'BEE'S BLISS'
 - SENECIO MANDRALISCAE
 - SEDUM SPP.
 - SESLERIA AUTUMNALIS
 - STRELITZIA SPP.
 - RIVER WATTLE
 - DINNER PLATE AEONIUM
 - BLUE CLONE
 - OCTOPUS AGAVE
 - BLUE GLOW AGAVE
 - ALOE
 - BLUE HIBISCUS
 - BUSH BABY KANGAROO PAW
 - COYOTE BRUSH
 - STALKED BULBINE
 - DESERT BIRD OF PARADISE
 - CALIFORNIA LILAC
 - GOLDEN REDBUD
 - BERKELEY SEDGE
 - CARMEL CREEPER
 - ROCKROSE
 - CAPE RUSH
 - WILD IRIS
 - AFTERGLOW ECHEVERIA
 - GIANT CABUYA
 - MALIBU YELLOW TORCH LILY
 - CONEBUSH
 - YELLOW CONEBUSH
 - PINCUSHION
 - NATIVE BLUE RYE
 - TROPIC BELLE MAT RUSH
 - DWARF MAT RUSH
 - MUHLI GRASS
 - LITTLE OLLIE OLIVE
 - RYE PUFFS
 - YELLOW WAVE FLAX
 - MEXICAN BUSH SAGE
 - BEE'S BLISS SAGE
 - SENECIO
 - SEDUM
 - AUTUMN MOOR GRASS
 - BIRD OF PARADISE

EXISTING TREES TO REMAIN	QTY 18
SEE EXISTING CONDITIONS AND DEMOLITION PLAN SHEET D-1	

EXISTING TREES TO BE REMOVED	QTY 40
SEE EXISTING CONDITIONS AND DEMOLITION PLAN SHEET D-1	

TURF (NATURAL)	QTY 5,697 SF
EXISTING TURF TO REMAIN	QTY 7,640 SF
(LOCATED ON PARK PROPERTY EAST OF SOCCER FIELD ADJACENT TO E. COTA STREET. EXCLUDES EXISTING PARKWAYS ALONG E. COTA OUTSIDE OF IMPROVEMENT AREAS)	
TURF CLASSIFIED AS SPECIAL LANDSCAPE AREA (SLA) FOR RECREATIONAL PURPOSES	
SEE MWELC CALCULATIONS AND NOTES, THIS SHEET.	

IRRIGATION COMPLIANCE & DESIGN CRITERIA

THE PLANT PALETTE IS COMPRISED OF SPECIES KNOWN TO THRIVE IN THE LOCAL CLIMATE AND SOIL CONDITIONS. THE PROPOSED PLANT MATERIAL (OUTSIDE OF AREAS ALLCOATED FOR RECREATIONAL USE) WILL REQUIRE LOW TO VERY LOW WATER ONCE ESTABLISHED. THIS PLANT PALETTE COUPLED WITH THE IRRIGATION SYSTEM DESCRIBED BELOW HAS BEEN DESIGNED TO MEET OR EXCEED THE STATE AND LOCAL STANDARDS FOR WATER CONSERVATION BASED ON THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE.

A WEATHER SENSING, 'SMART CONTROLLER' WILL BE USED TO MONITOR THE PROVISION OF IRRIGATION WATER AND MANAGE DAILY WATER CONSUMPTION TO THE MINIMUM REQUIREMENTS FOR EACH HYDROZONE. ALL TREES, SHRUBS, AND GROUNDCOVER AREAS WILL BE IRRIGATED ON SEPARATE HYDROZONES SO THAT ONCE ESTABLISHED, WATER CAN BE REGULATED IN A MORE EFFICIENT MANNER. TREES WILL BE IRRIGATED BY BUBBLERS. ALL ORNAMENTAL PLANTING WILL RECEIVE DRIP IRRIGATION OR OTHER HIGHLY EFFICIENT IRRIGATION. AREAS TO RECEIVE DRIP IRRIGATION SHALL EXCEED THE REQUIRED 25% PER CITY OF SANTA BARBARA'S LANDSCAPE DESIGN STANDARDS FOR WATER CONSERVATION.

MWELC CALCULATIONS

TOTAL DEVELOPMENT AREA (ON-SITE & OFF-SITE): 247,047 SF
SEE TITLE SHEET L-1 FOR ADDITIONAL AREA CALCULATIONS
TOTAL ON-SITE LANDSCAPE AREA: 43,437 SF
TOTAL ON-SITE SYNTHETIC TURF: 93,452 SF
TOTAL ON-SITE HARDSCAPE AREA: 60,114 SF
TOTAL OFF-SITE LANDSCAPE AREA: 4,109 SF

TOTAL PERVIOUS AREA: 144,902 SF
TOTAL IMPERVIOUS AREA: 60,114 SF

AREAS WITHIN THE PROJECT SITE THAT ARE TO BE USED FOR RECREATIONAL PURPOSES AND ALL AREAS THAT WILL BE IRRIGATED WITH RECLAIMED WATER ARE CLASSIFIED AS SPECIAL LANDSCAPE AREAS. SPECIAL LANDSCAPE AREAS HAVE BEEN INCORPORATED INTO THE FOLLOWING CALCULATIONS AND ARE REFLECTED IN THE MAXIMUM APPLIED WATER ALLOWANCE PER CALIFORNIA CODE OF REGULATIONS AND THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE.

ESTIMATED TOTAL WATER USE: 1,143,438 GAL / YR.
MAXIMUM APPLIED WATER ALLOWANCE: 1,143,438 GAL / YR.

AVERAGE EXISTING WATER USE FOR ORTEGA PARK IRRIGATION IS 1,567,920 GAL / YR.
SEE PRELIMINARY SEWER AND WATER DEMAND STUDIES ISSUED TO WATER RESOURCES DEPT AS PART OF DART REPONSES.

Source:
California Code of Regulations
Title 23. Waters
Division 2. Department of Water Resources
Chapter 2.7. Model Water Efficient Landscape Ordinance

NOTE: PUBLISHED AUTHORITATIVE SOURCES FOR WATER USE CLASSIFICATIONS OF ALL PROPOSED PLANT SPECIES ON THIS SHEET INCLUDE THE CAL POLY URBAN FOREST ECOSYSTEMS INSTITUTE, SUNSET WESTERN GARDENS, US DEPARTMENT OF AGRICULTURE, AND SANTA BARBARA'S ADDENDUM TO WUCOLS.



JUBEA CHILENSIS



STENOCARPUS SINUATUS



ARCHONTOPHOENIX CUNNINGHAMIANA



ZELKOVA SERRATA 'HALKA'



CASSIA LEPTOPHYLLA



FURCREA FOETIDA 'MEDIOPICTA'



SENECIO SERPENS



LEUCADENDRON 'SAFARI GOLD STRIKE'



DIETES GRANDIFLORA



ANIGOZANTHOS SPP.



OLEA EUROPAENA 'LITTLE OLLIE'



KNIPHOFIA UVARIA



PLATANUS RACEMOSA



LOMANDRA LONGIFOLIA



VERBENA X BALKENDALE



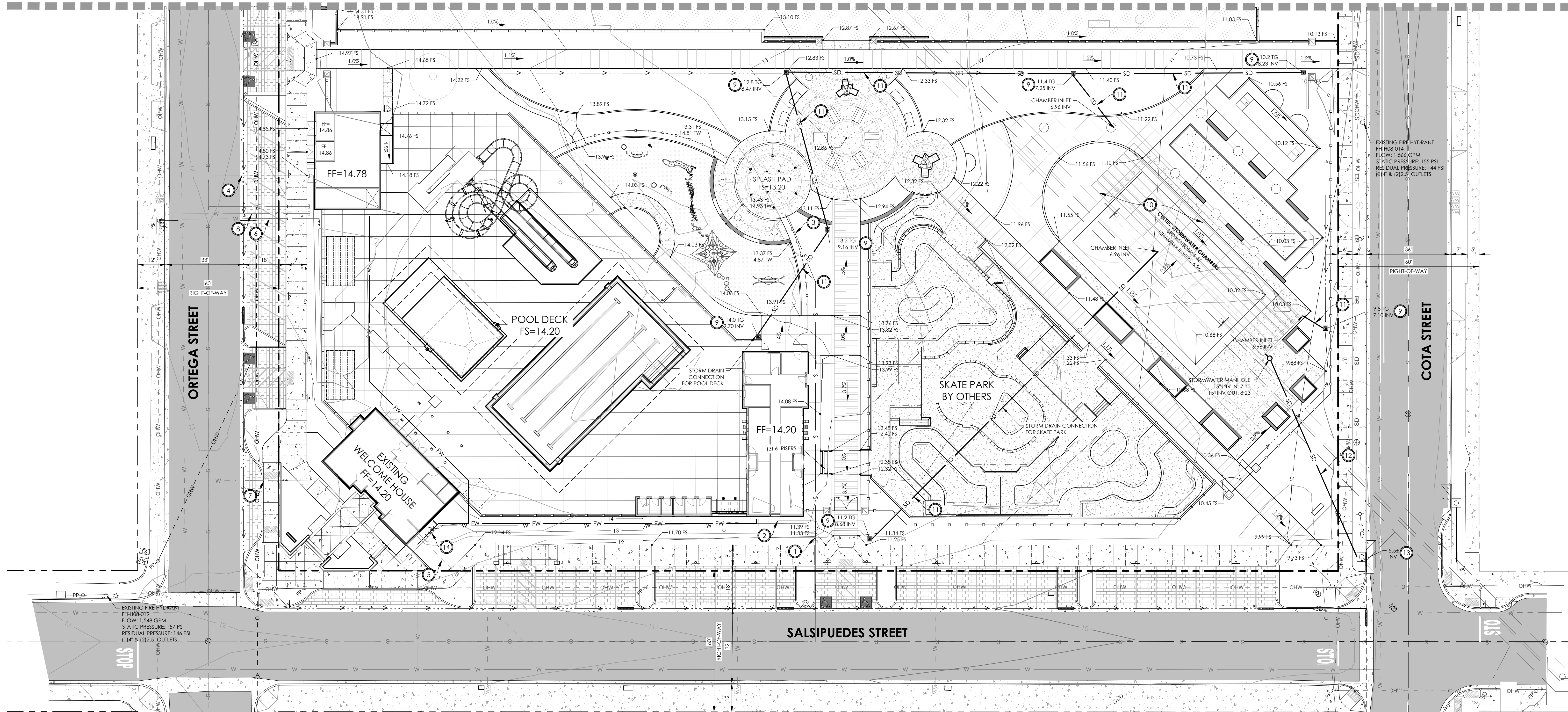
AGAVE 'BLUE GLOW' & AGAVE ATTENUATA



DECOMPOSED GRANITE



COBBLE MULCH



GRADING NOTE:
 SITE GRADING SHALL CONFORM TO THE RECOMMENDATIONS MADE BY THE GEOTECHNICAL ENGINEER IN THE APPROVED SOILS REPORT.

EARTH QUANTITIES:
 AREA OF DISTURBANCE 5.5 AC±

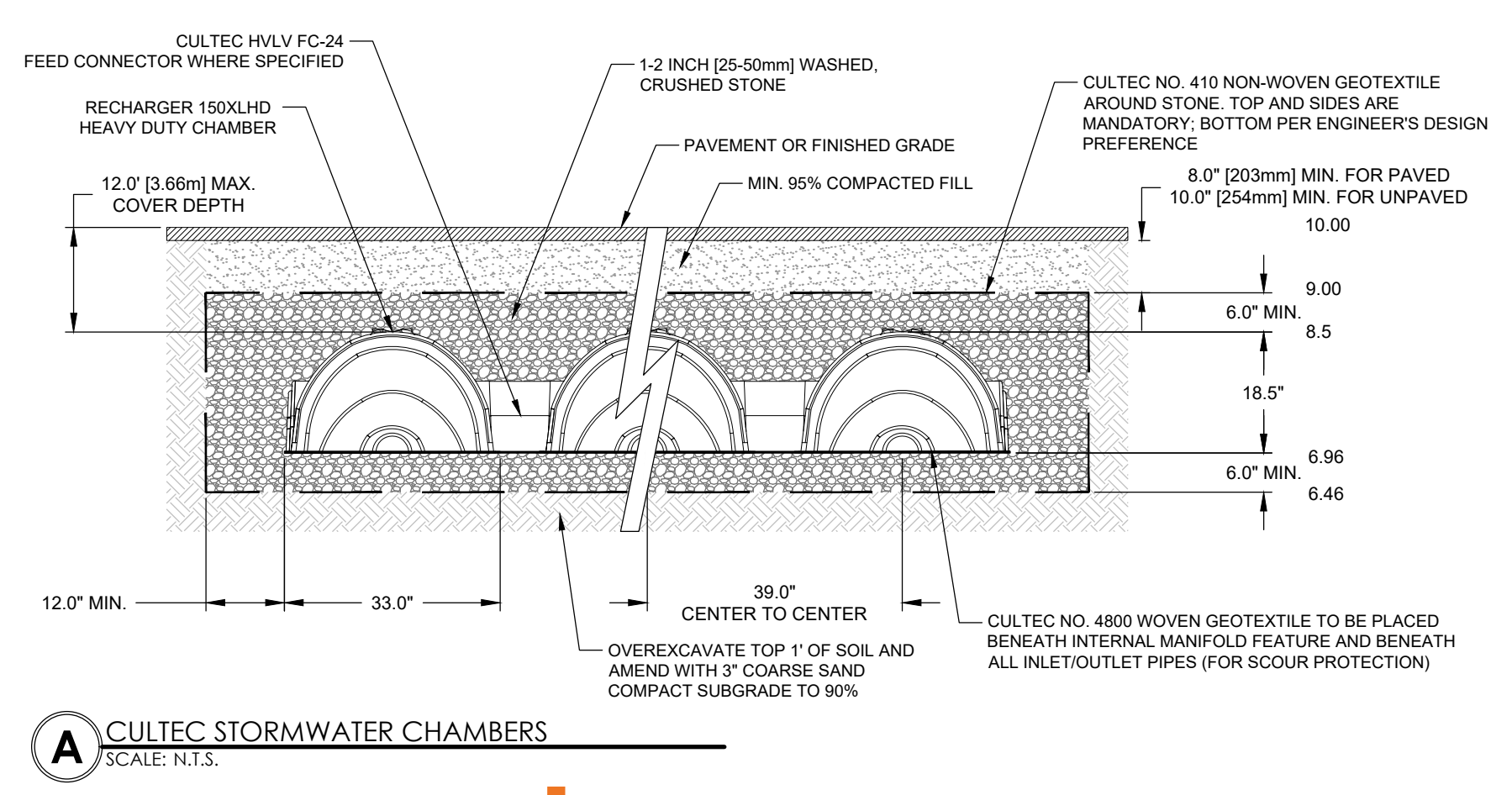
RAW CUT: 10,600 CY
 RAW FILL: 480 CY
 NET: 10,120 CY CUT

SOIL REMOVAL BELOW STORMWATER INFILTRATION AREAS PER SOIL MANAGEMENT PLAN*
 EXPORT: 1,950 CY
 IMPORT: 1,950 CY

QUANTITY ESTIMATES ON THESE PLANS ARE TO BE USED FOR PERMIT PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL QUANTITIES FOR THE PURPOSE OF CONSTRUCTION.

THE RAW EARTHWORK QUANTITIES SHOWN HEREON REPRESENT THE ESTIMATED VOLUMETRIC DIFFERENCE BETWEEN THE PROPOSED ROUGH GRADE AND THE LIMITED TOPOGRAPHIC EXISTING GRADES. THESE ESTIMATES DO NOT MAKE CONSIDERATIONS FOR LOSSES OR BULKING DUE TO: SHRINKAGE, SOIL AMENDMENTS, STABILIZATION, CONSTRUCTION TECHNIQUE, FOOTING & TRENCHING SPOILS, ETC. THESE, IN ADDITION TO ACTUAL FIELD CONDITIONS, CONSTRUCTION TECHNIQUE AND THE FINAL RECOMMENDATIONS OF THE SOILS ENGINEER MAY SIGNIFICANTLY EFFECT THE FINAL IMPORT/EXPORT QUANTITIES.

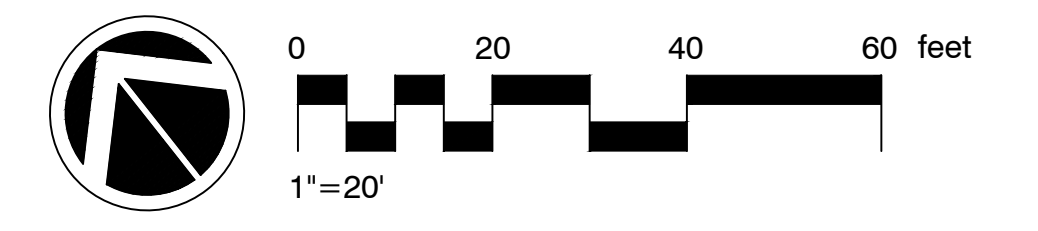
*CORRECTIVE ACTION PLAN/SOIL MANAGEMENT PLAN PREPARED BY RINCON CONSULTANTS RECOMMENDS REMOVAL OF CONTAMINATED SOILS BELOW INFILTRATION AREAS TO GROUNDWATER DEPTH WITH A LATERAL THREE-FOOT BUFFER. CALCULATIONS ASSUME GROUNDWATER DEPTH IS FIVE FEET BELOW EXISTING GRADE.



- IMPROVEMENT NOTES**
- PROPOSED 4" SEWER LATERAL.
 - PROPOSED RESTROOM BUILDING SEWER CONNECTION.
 - PROPOSED SPLASH PAD SEWER CONNECTION.
 - PROPOSED DEDICATED 4" SEWER LATERAL FOR POOL FACILITIES.
 - EXISTING SEWER LATERAL SERVING WELCOME HOUSE TO REMAIN.
 - EXISTING IRRIGATION METER AND BACKFLOW DEVICE TO BE UPSIZED TO 3" METER AND LINE FOR IRRIGATION USE (SYNTHETIC TURF MAINTENANCE).
 - EXISTING WATER METER AND BACKFLOW TO REMAIN FOR DOMESTIC USE (WELCOME HOUSE AND RESTROOM BUILDING).
 - PROPOSED 3" WATER METER AND SERVICE FOR POOL EQUIPMENT.
 - PROPOSED STORM DRAIN CATCH BASIN.
 - PROPOSED UNDERGROUND STORMWATER CHAMBERS (CULTEC RECHARGER 150XLD- 80 CHAMBERS TOTAL). SEE DETAIL 'A' THIS SHEET.
 - PROPOSED 8" STORM DRAIN AT 1.0% MINIMUM SLOPE.
 - PROPOSED 15" STORM DRAIN AT 1.0% MINIMUM SLOPE.
 - PROPOSED 15" STORM DRAIN CONNECTION TO EXISTING CURB INLET.
 - PROPOSED FIRE WATER LINE AND BACKFLOW PREVENTER.

LEGEND

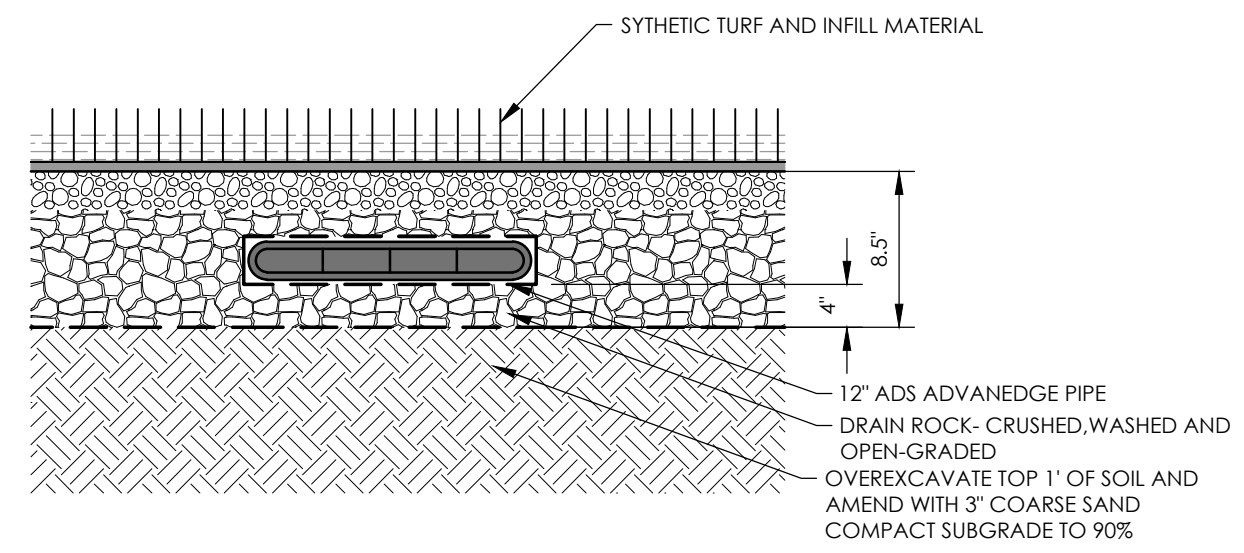
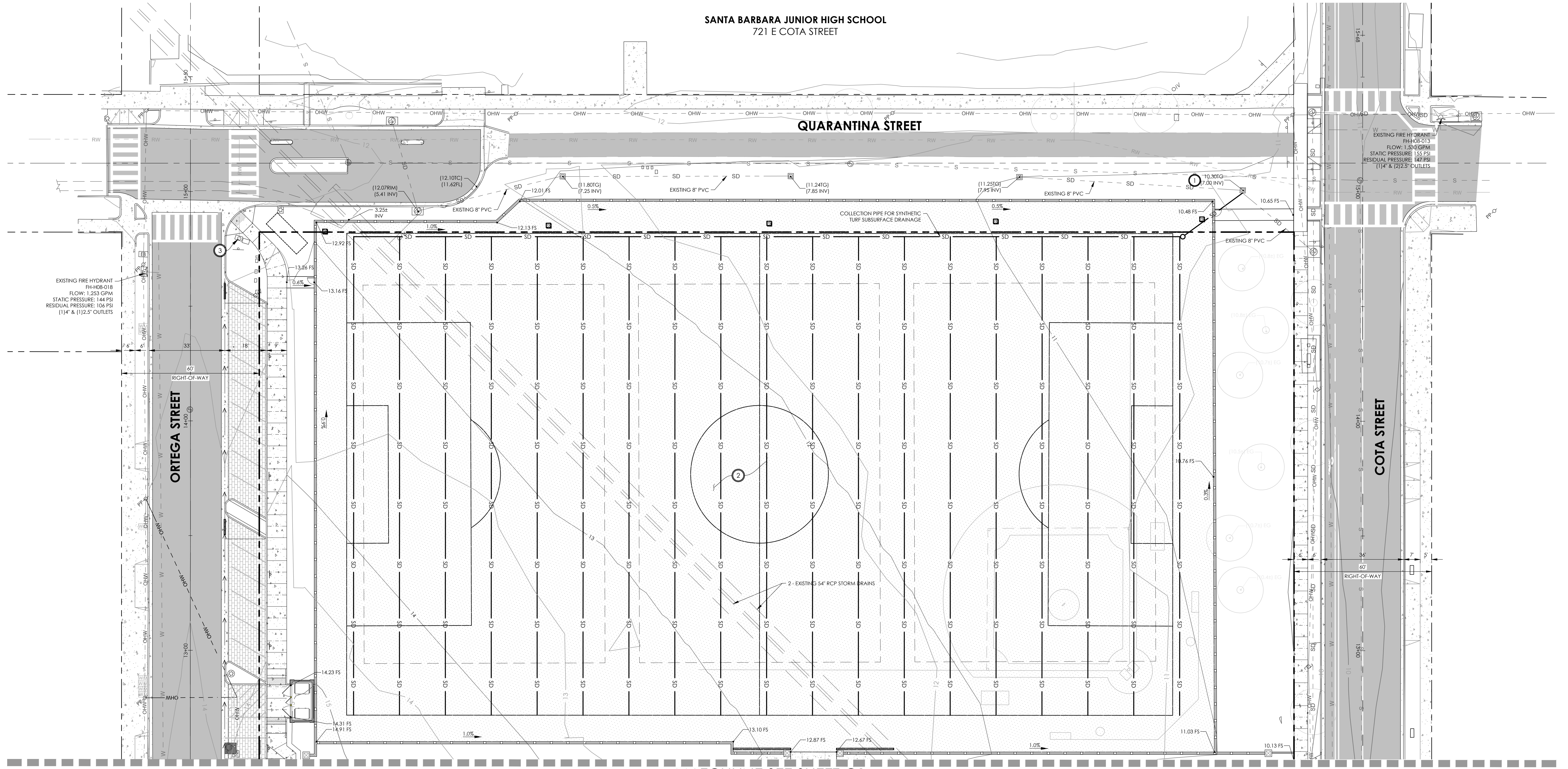
	PROPOSED SYNTHETIC TURF
	PROPOSED BIO-RETENTION AREA
	PROPOSED CONCRETE
	PROPERTY LINE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED FLOWLINE
	PROPOSED STORM DRAIN
	EXISTING WATER MAIN
	EXISTING SANITARY SEWER MAIN
	EXISTING STORM DRAIN
	PROPOSED GRADE BREAK



ORTEGA PARK PRELIMINARY GRADING AND UTILITY PLAN (SOUTH)

#1144-03-RC19
 JULY 2020

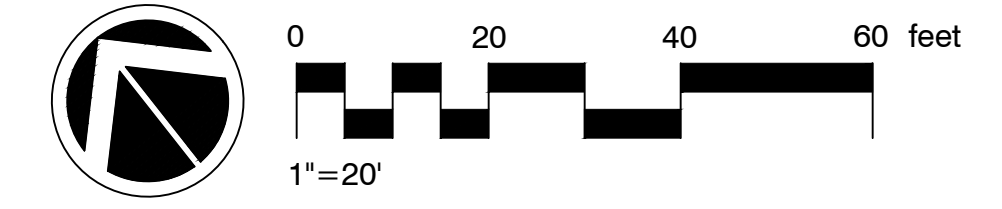
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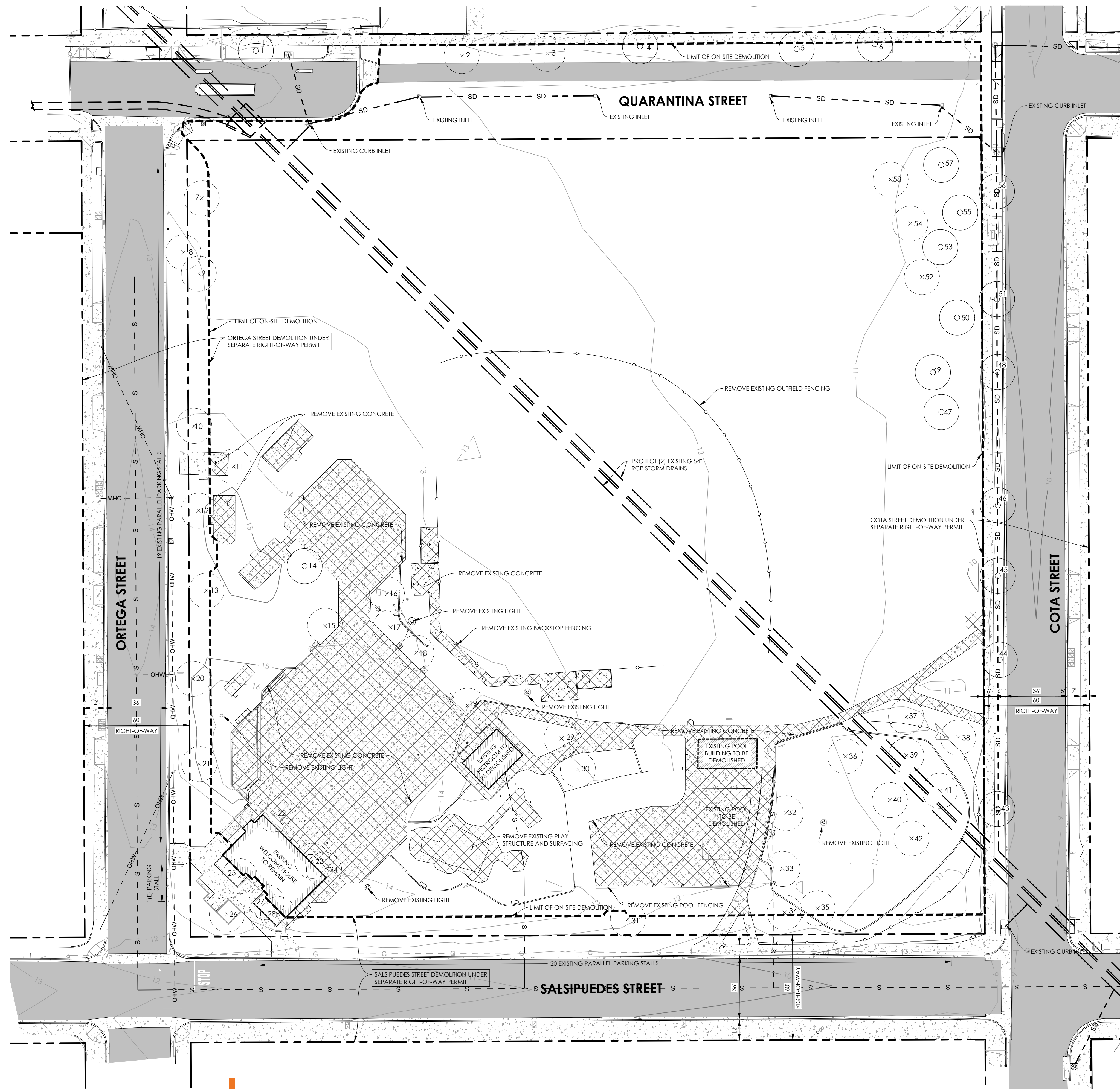


A SYNTHETIC TURF SECTION
SCALE: N.T.S.

- IMPROVEMENT NOTES**
- 1 CONNECT TO EXISTING CATCH BASIN.
 - 2 PROPOSED SYNTHETIC TURF AND SUBSURFACE DRAINAGE. SEE DETAIL 'A' THIS SHEET.
 - 3 EXISTING 2" RECYCLED WATER METER TO BE USED FOR IRRIGATION.

- LEGEND**
- [Pattern] PROPOSED SYNTHETIC TURF
 - [Pattern] PROPOSED BIO-RETENTION AREA
 - [Pattern] PROPOSED CONCRETE
 - PROPERTY LINE
 - 821 EXISTING CONTOUR
 - 821 PROPOSED CONTOUR
 - PROPOSED FLOWLINE
 - SD PROPOSED STORM DRAIN
 - W EXISTING WATER MAIN
 - S EXISTING SANITARY SEWER MAIN
 - SD EXISTING STORM DRAIN
 - PROPOSED GRADE BREAK

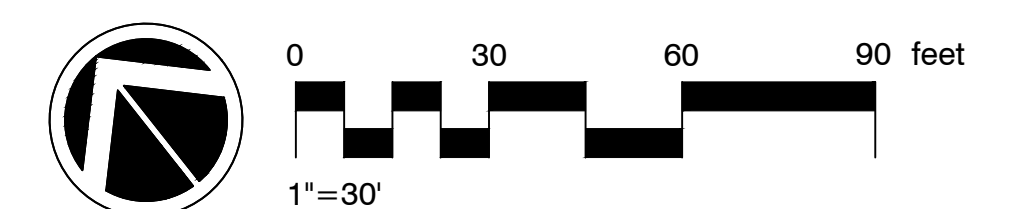




LEGEND	QUANTITY	
—	PROPERTY LINE	
- - - -	LIMIT OF ON-SITE DEMOLITION	
[Solid Grey]	EXISTING AC PAVING TO REMAIN	
[Cross-hatch]	EXISTING CONCRETE PAVING TO REMAIN	
[Diagonal Hatch]	EXISTING CONCRETE PAVING TO BE REMOVED	30,843 SF
[Solid White]	EXISTING BUILDING TO REMAIN	1,604 SF
[Hatched]	EXISTING BUILDING TO BE DEMOLISHED	1,134 SF
○	EXISTING CONTOUR	
200	EXISTING CONTOUR	
- - - -	EXISTING STORM DRAIN	
○	EXISTING TREE TO REMAIN	18
×	EXISTING TREE TO BE REMOVED	40

EXISTING TREE DISPOSITION

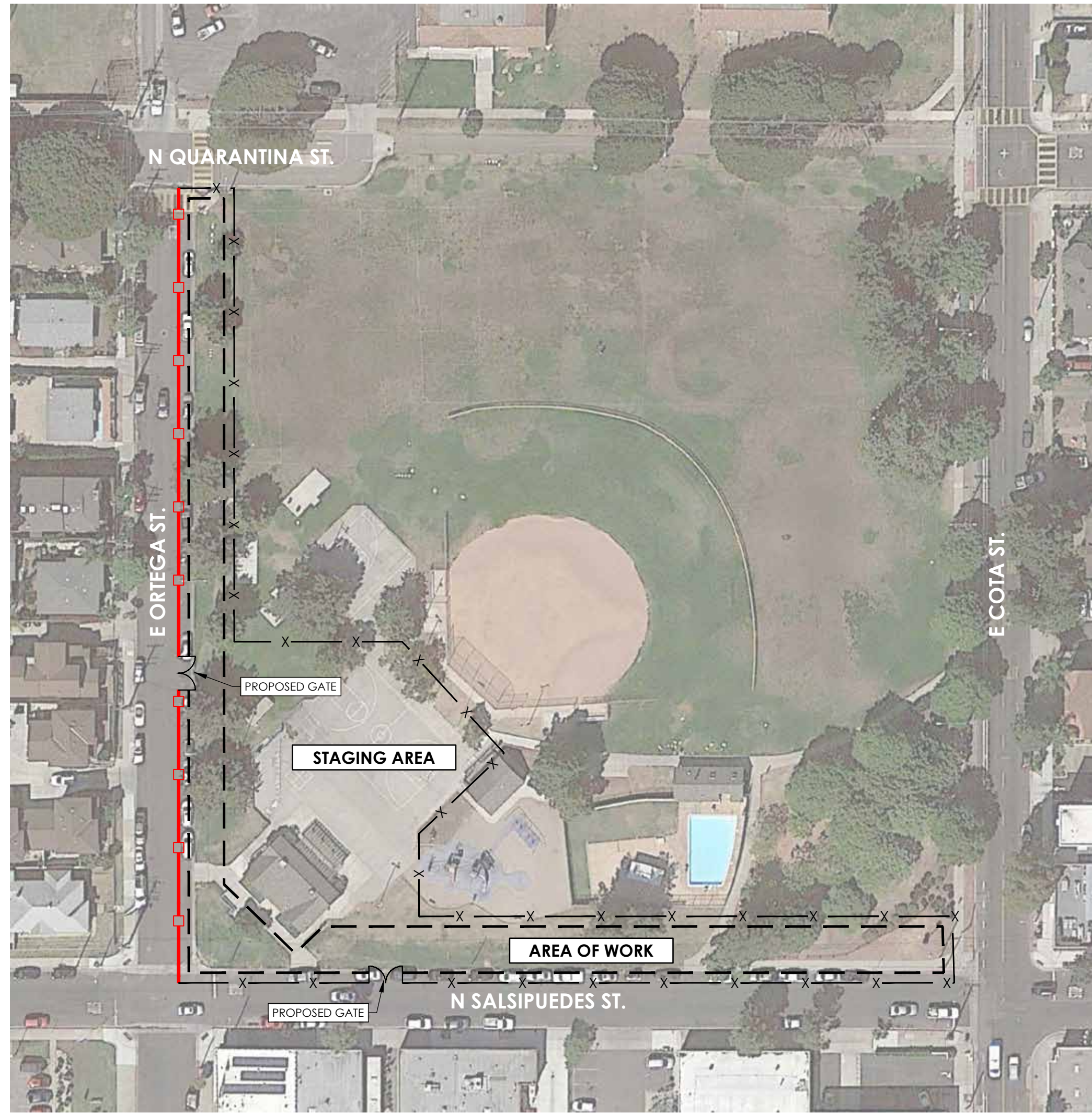
ID #	SCIENTIFIC NAME	COMMON NAME	DBH (in)	ACTION
1	PINUS PINEA	ITALIAN STONE PINE	48	PROTECT
2	PINUS PINEA	ITALIAN STONE PINE	8	REMOVE
3	PINUS PINEA	ITALIAN STONE PINE	8	REMOVE
4	PINUS PINEA	ITALIAN STONE PINE	40	PROTECT
5	PINUS PINEA	ITALIAN STONE PINE	48	PROTECT
6	PINUS PINEA	ITALIAN STONE PINE	36	PROTECT
7	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	6	REMOVE
8	PINUS CANARIENSIS	CANARY ISLAND PINE	8	REMOVE
9	PINUS CANARIENSIS	CANARY ISLAND PINE	10	REMOVE
10	PINUS ELДАРICA	AFGHAN PINE	24	REMOVE
11	PINUS PATULA	JELECOTE PINE	14	REMOVE
12	PINUS ELДАРICA	AFGHAN PINE	18	REMOVE
13	PINUS PATULA	JELECOTE PINE	18	REMOVE
14	PINUS ELДАРICA	AFGHAN PINE	36	PROTECT
15	PYRUS KAWAKAMII	EVERGREEN PEAR	18	REMOVE
16	PYRUS KAWAKAMII	EVERGREEN PEAR	18	REMOVE
17	PYRUS KAWAKAMII	EVERGREEN PEAR	12	REMOVE
18	PYRUS KAWAKAMII	EVERGREEN PEAR	14	REMOVE
19	PYRUS KAWAKAMII	EVERGREEN PEAR	6	REMOVE
20	PINUS ELДАРICA	AFGHAN PINE	24	REMOVE
21	PINUS ELДАРICA	AFGHAN PINE	28	REMOVE
22	PHOENIX ROEBELENIИ	PYGMY DATE PALM	{3}-4	REMOVE
23	PHOENIX ROEBELENIИ	PYGMY DATE PALM	3	REMOVE
24	PHOENIX ROEBELENIИ	PYGMY DATE PALM	{3}-6	REMOVE
25	PHOENIX ROEBELENIИ	PYGMY DATE PALM	4	REMOVE
26	SCHINUS TEREBINTHIFOLIUS	BRAZILIAN PEPPER	14	REMOVE
27	PHOENIX ROEBELENIИ	PYGMY DATE PALM	4	REMOVE
28	PHOENIX ROEBELENIИ	PYGMY DATE PALM	8	REMOVE
29	PINUS CANARIENSIS	CANARY ISLAND PINE	24	REMOVE
30	PINUS CANARIENSIS	CANARY ISLAND PINE	24	REMOVE
31	PINUS ELДАРICA	AFGHAN PINE	26	REMOVE
32	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	8	REMOVE
33	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	8	REMOVE
34	PINUS ELДАРICA	AFGHAN PINE	20	REMOVE
35	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	12	REMOVE
36	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	16	REMOVE
37	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	18	REMOVE
38	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	18	REMOVE
39	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	6	REMOVE
40	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	16	REMOVE
41	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	8	REMOVE
42	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	12	REMOVE
43	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	18	PROTECT
44	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	18	PROTECT
45	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	18	PROTECT
46	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	18	PROTECT
47	KOELREUTERIA BIPINNATA	LONDON PLANE TREE	18	PROTECT
48	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	18	PROTECT
49	PLATANUS X HISPANICA	LONDON PLANE TREE	36	PROTECT
50	LIQUIDAMBAR STYRACIFLUA	AMERICAN SWEETGUM	18	PROTECT
51	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	18	PROTECT
52	PINUS ELДАРICA	AFGHAN PINE	24	REMOVE
53	LIQUIDAMBAR STYRACIFLUA	AMERICAN SWEETGUM	12	PROTECT
54	PINUS ELДАРICA	AFGHAN PINE	24	REMOVE
55	LIQUIDAMBAR STYRACIFLUA	AMERICAN SWEETGUM	12	PROTECT
56	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	15	PROTECT
57	PINUS ELДАРICA	AFGHAN PINE	18	PROTECT
58	LIQUIDAMBAR STYRACIFLUA	AMERICAN SWEETGUM	12	REMOVE



ORTEGA PARK EXISTING CONDITIONS AND DEMOLITION PLAN

#1144-03-RC19
JULY 2020

D-1



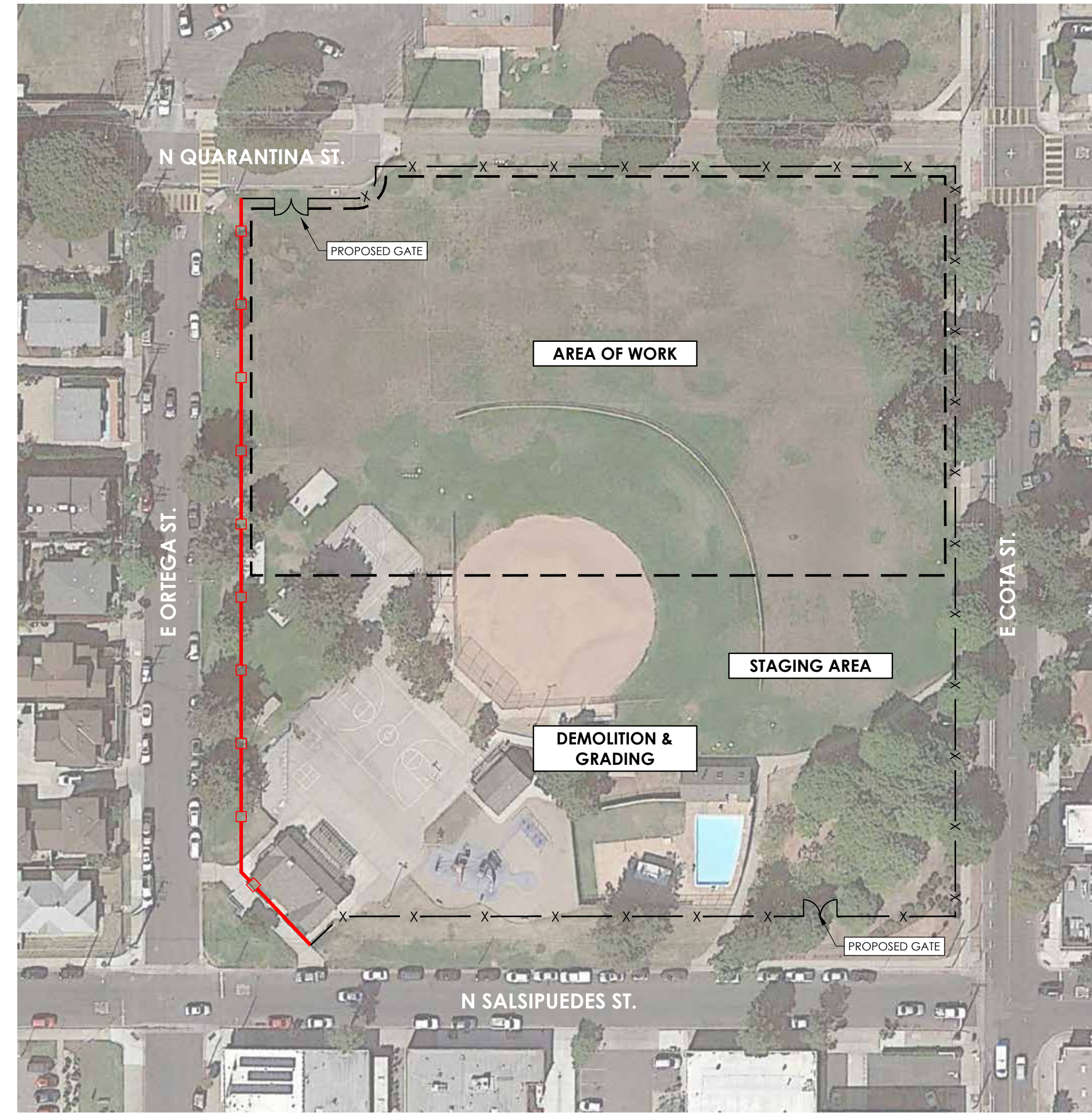
PHASE ONE
RIGHT-OF-WAY IMPROVEMENTS

DESCRIPTION: INSTALL PARKING AND SIDEWALKS ONLY. THESE IMPROVEMENTS CAN BE MADE WHILE STILL KEEPING THE EXISTING PARK AMENITIES OPERATING. IT WILL ALSO PROVIDE ADDITIONAL PARKING AND IMPROVE ACCESSIBILITY TO THE PARK.

CONSTRUCTION PARKING: DURING CONSTRUCTION THE BASKETBALL COURT CAN BE FENCED AND USED FOR CONSTRUCTION PARKING, JOB TRAILER, AND PORTABLE TOILETS

ESTIMATED CONSTRUCTION SCHEDULE: 4 MONTHS

NOISE REDUCTION MEASURES DURING CONSTRUCTION: NOISE GENERATING ACTIVITY WOULD BE LIMITED TO BETWEEN 8 AM AND 5 PM ON WEEK DAYS. CONSTRUCTION OF THE NEW PARKING AND SIDEWALK ALONG ORTEGA STREET WILL GENERATE NOISE CLOSEST TO RESIDENTIAL HOUSES. TO MITIGATE THE TEMPORARY CONSTRUCTION NOISE, A 6-FOOT-TALL CONSTRUCTION FENCE WITH SOUND REDUCTION BLANKETS OR PLYWOOD WILL BE INSTALLED ALONG THE 480 FOOT LENGTH OF PROPERTY ALONG ORTEGA STREET.



PHASE TWO
SPORTS FIELD, DEMOLITION & GRADING

DESCRIPTION: THIS PHASE WILL FOCUS ON ALL DEMOLITION AND GRADING OF THE WHOLE SITE. THE GRADING SHALL TAKE PLACE WHEN SCHOOL IS NOT IN SESSION, TO ALLOW FOR THE REMOVAL OF CONTAMINATED SOIL. AFTER THE SOILS IS REMOVED AND ROUGH GRADING IS COMPLETE, THE MULTI-SPORT SYNTHETIC TURF FIELD, FENCING, LIGHTING, AND HARDSCAPE WILL BE COMPLETED. PRIOR TO THE START OF PHASE 3, THE REMAINING SOUTH HALF OF THE PROPERTY WOULD BE SEEDED WITH GRASS TO MINIMIZE EROSION.

CONSTRUCTION PARKING: PARKING AND STAGING WILL TAKE PLACE ON THE SOUTHERN HALF OF THE PARCEL.

ESTIMATED CONSTRUCTION TIME: 8 MONTH (NOISE GENERATING ACTIVITY WOULD BE LIMITED TO BETWEEN 8 AM AND 5 PM ON WEEK DAYS) REMOVAL OF ALL CONTAMINATED SOILS WILL TAKE PLACE DURING THE SUMMER, WHEN THE ADJACENT JUNIOR HIGH IS CLOSED.

NOISE REDUCTION MEASURES DURING CONSTRUCTION: (NOISE GENERATING ACTIVITY WOULD BE LIMITED TO BETWEEN 8 AM AND 5 PM ON WEEK DAYS). A 6-FOOT-TALL CONSTRUCTION FENCE WITH SOUND REDUCTION BLANKETS OR PLYWOOD WILL BE INSTALLED ALONG THE 480 FOOT LENGTH OF PROPERTY ALONG ORTEGA STREET.



PHASE THREE
POOL FACILITY, BUILDINGS, SKATE PARK & COURTS

DESCRIPTION: THIS FINAL PHASE WILL FIRST FOCUS ON THE CORNER AREA AT ORTEGA AND SALSPIUEDES STREET. THIS INCLUDES THE RENOVATION OF THE WELCOME HOUSE, CONSTRUCTION OF THE POOL, AND ALL OTHER BUILDINGS. THE SKATE PARK WITH FOLLOW, ALONG WITH THE PLAYGROUND, THE BASKETBALL, BOCCIE BALL, AND CORNHOLE COURT WOULD BE CONSTRUCTED LAST TO ALLOW FOR SPACE FOR THE PORTABLE TOILETS, JOB TRAILER, AND CONSTRUCTION STAGING AREA.

CONSTRUCTION PARKING: DURING CONSTRUCTION THE PROPERTY CORNER AT E. COTA AND SALSPIUEDES STREET WILL BE DEVELOPED LAST TO PRESERVE AREA FOR CONSTRUCTION PARKING AND STAGING.

ESTIMATED CONSTRUCTION TIME: 14 MONTHS (NOISE GENERATING ACTIVITY WOULD BE LIMITED TO BETWEEN 8 AM AND 5 PM ON WEEK DAYS)

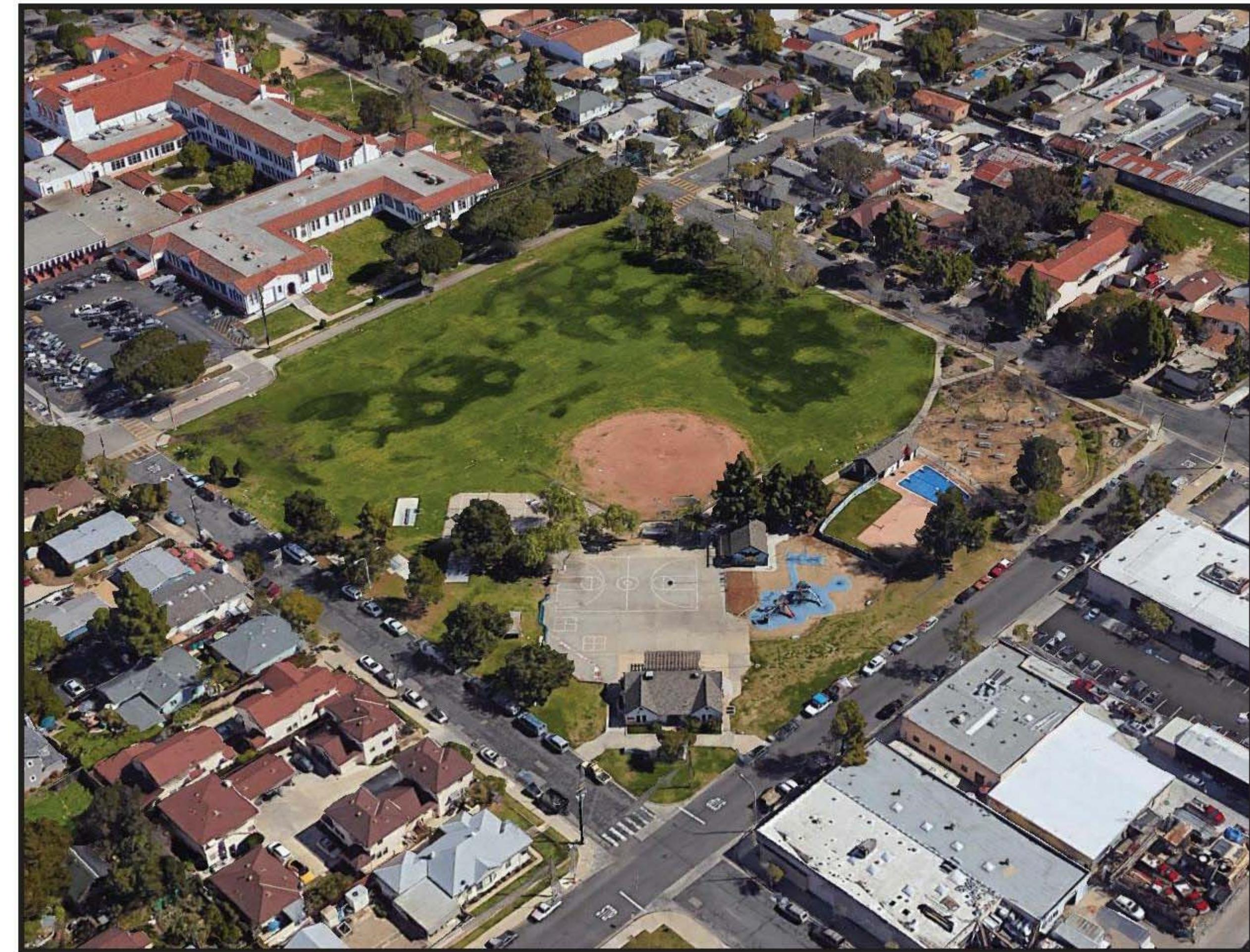
NOISE REDUCTION MEASURES DURING CONSTRUCTION: (NOISE GENERATING ACTIVITY WOULD BE LIMITED TO BETWEEN 8 AM AND 5 PM ON WEEK DAYS). A 6-FOOT-TALL CONSTRUCTION FENCE WITH SOUND REDUCTION BLANKETS OR PLYWOOD WILL BE INSTALLED ALONG THE AREA OF WORK ALONG ORTEGA STREET.

LEGEND

- AREA OF WORK/IMPROVEMENTS
- PROPOSED CONSTRUCTION FENCING
- CONSTRUCTION SOUND ABATEMENT FENCING



FRONT VIEW - SALSIPUEDES & ORTEGA



AERIAL VIEW OF PARK



EXISTING WELCOME HOUSE MAIN ENTRANCE



EXISTING WELCOME HOUSE EAST ENTRANCE



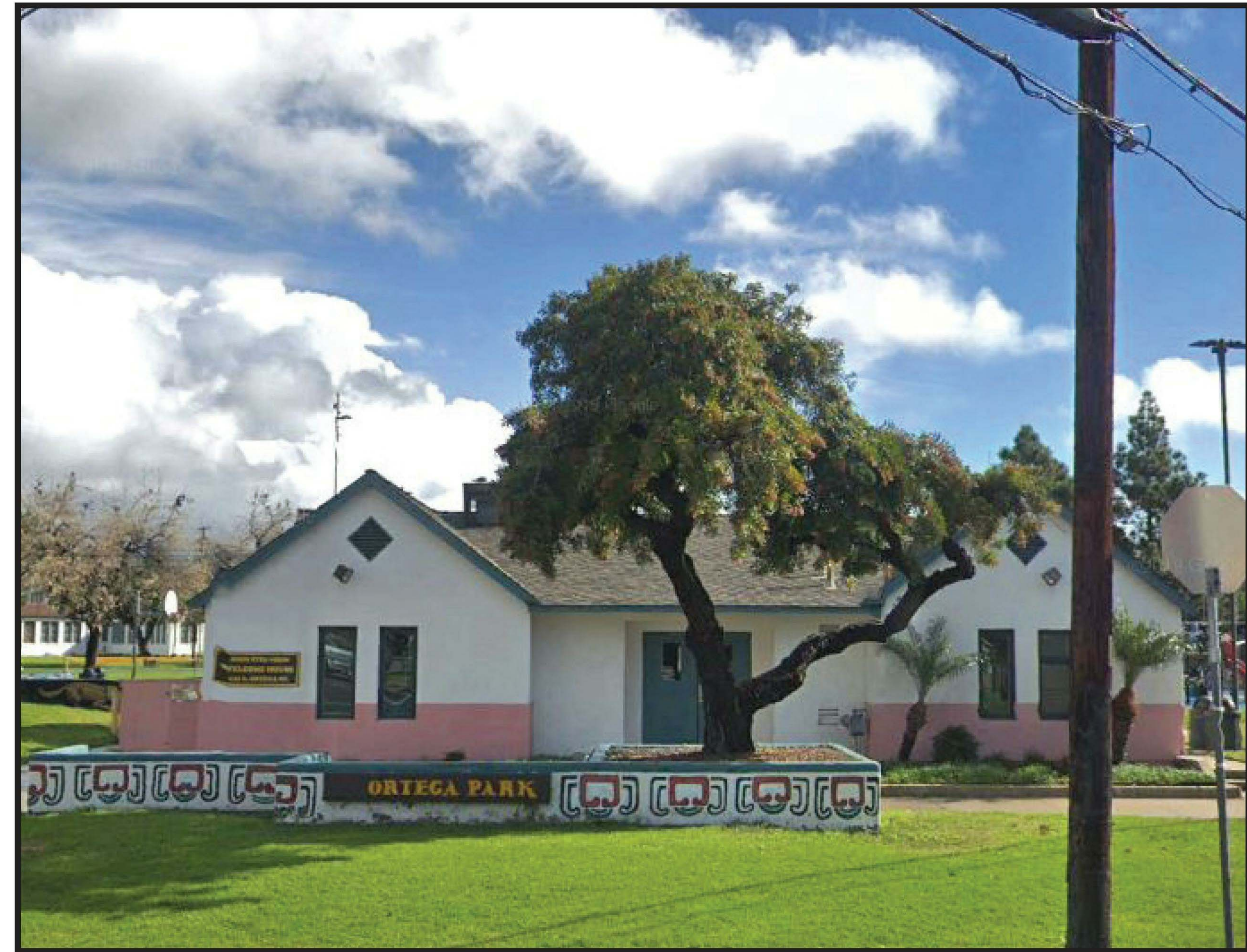
EXISTING WELCOME HOUSE SOUTH ELEVATION



EXISTING WELCOME HOUSE EAST ELEVATION



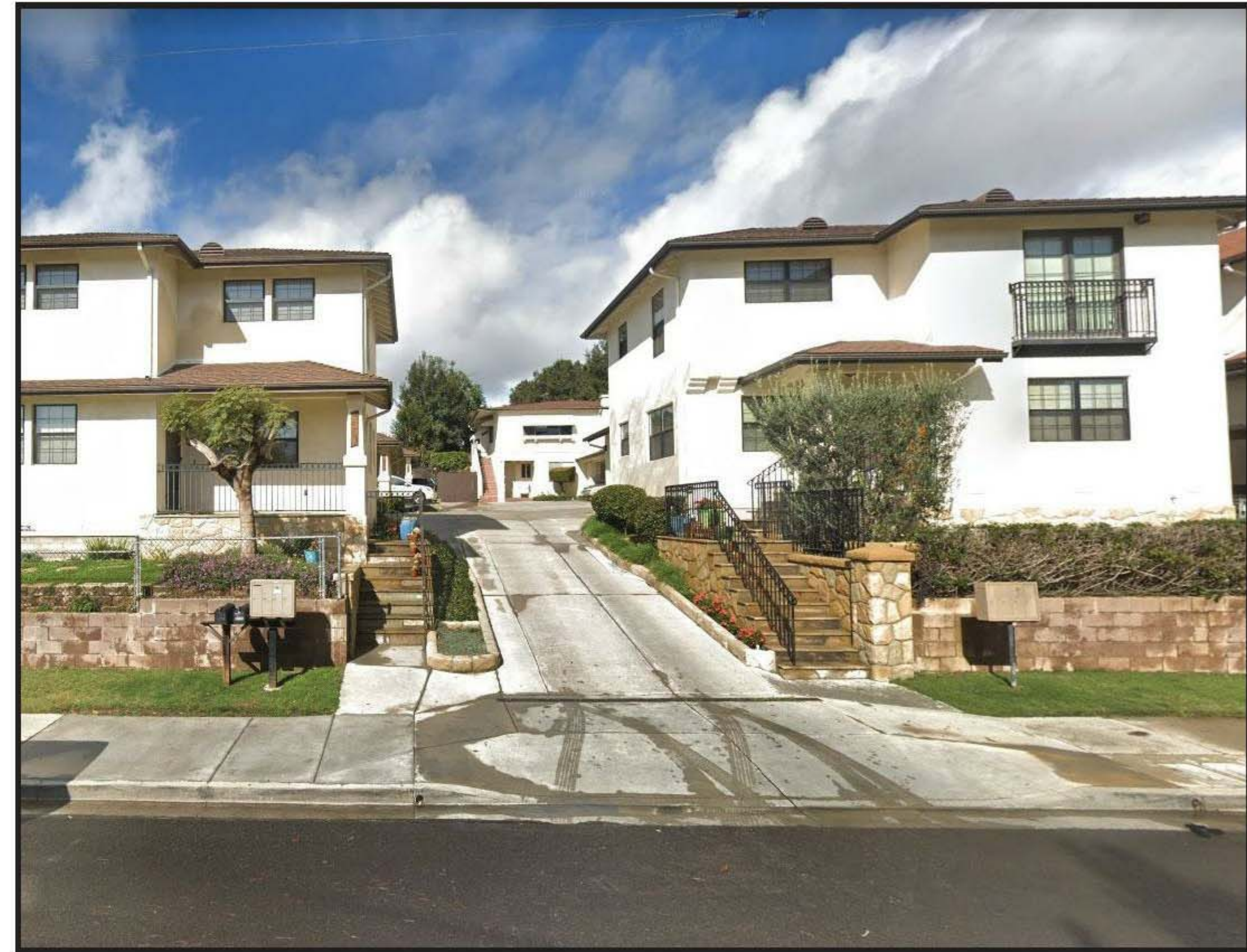
EXISTING WELCOME HOUSE NORTH ELEVATION



EXISTING WELCOME HOUSE WEST ELEVATION



SURROUNDING NEIGHBORHOOD - EAST VIEW FROM N. QUARANTINA



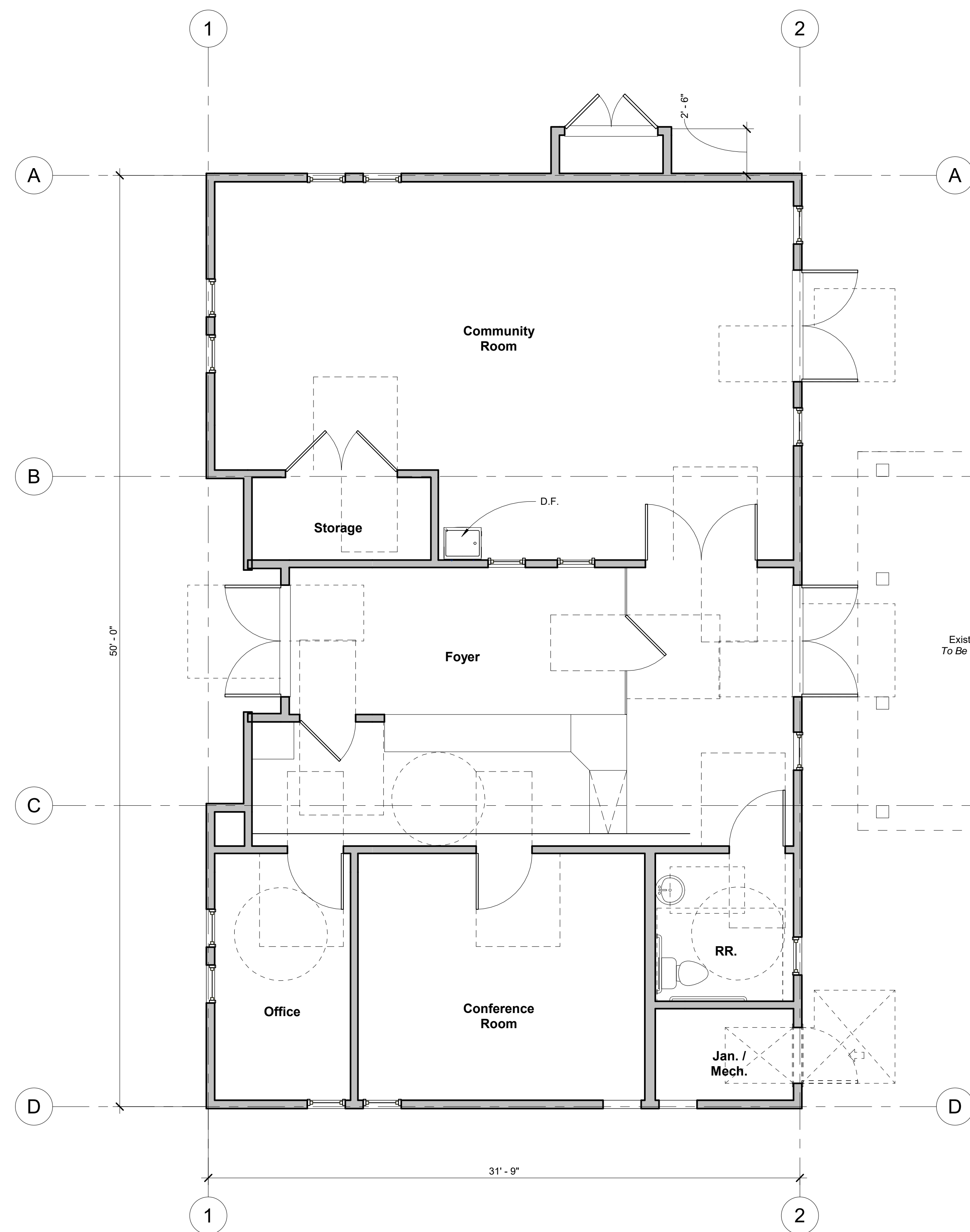
SURROUNDING NEIGHBORHOOD - NORTH VIEW FROM ORTEGA



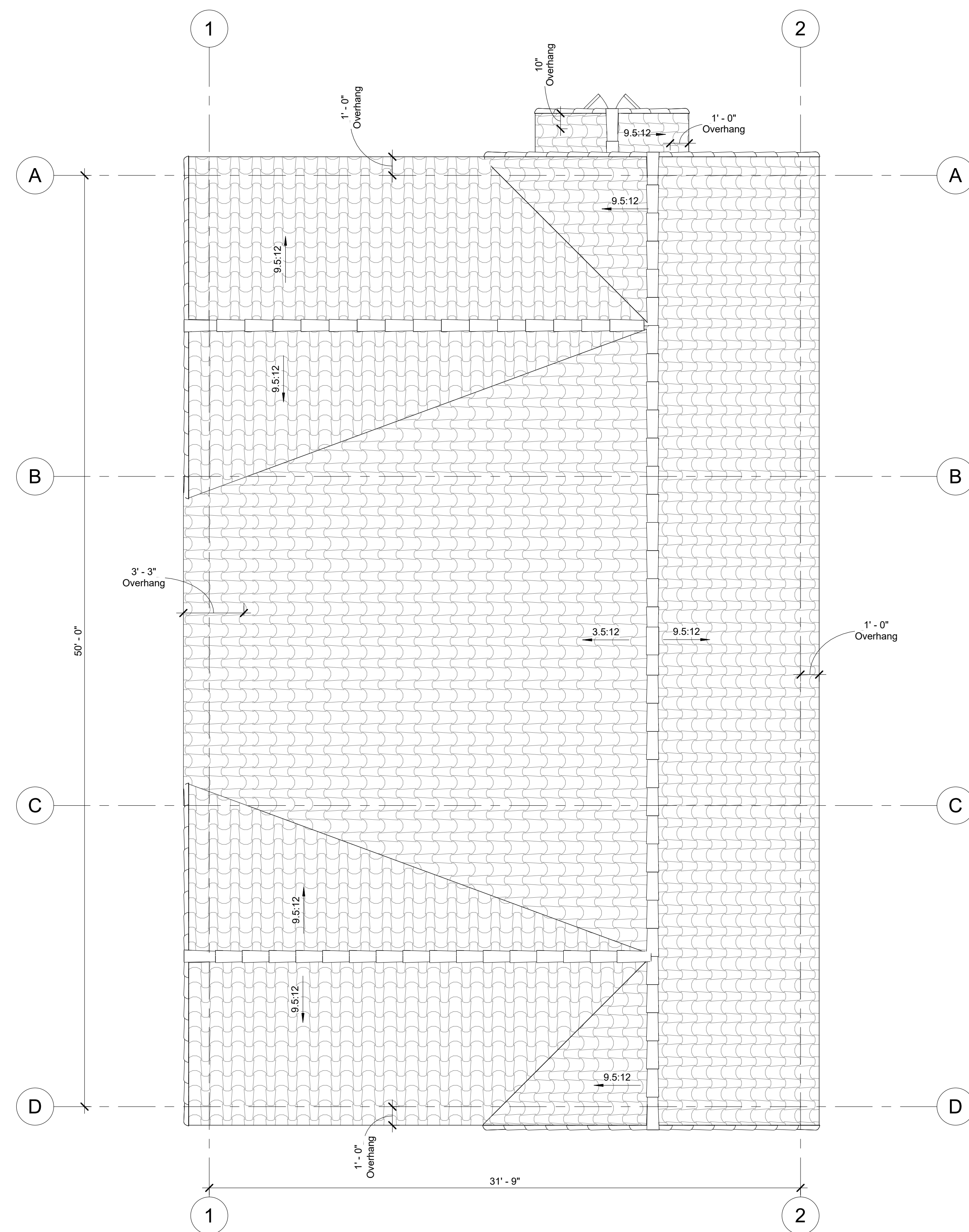
SURROUNDING NEIGHBORHOOD - SOUTH VIEW FROM E. COTA



SURROUNDING NEIGHBORHOOD - WEST VIEW FROM N. SALSIPUEDES



WELCOME HOUSE FLOOR PLAN
1/4" = 1'-0"



WELCOME HOUSE ROOF PLAN
1/4" = 1'-0"



WELCOME HOUSE EAST ELEVATION

1/4" = 1'-0"



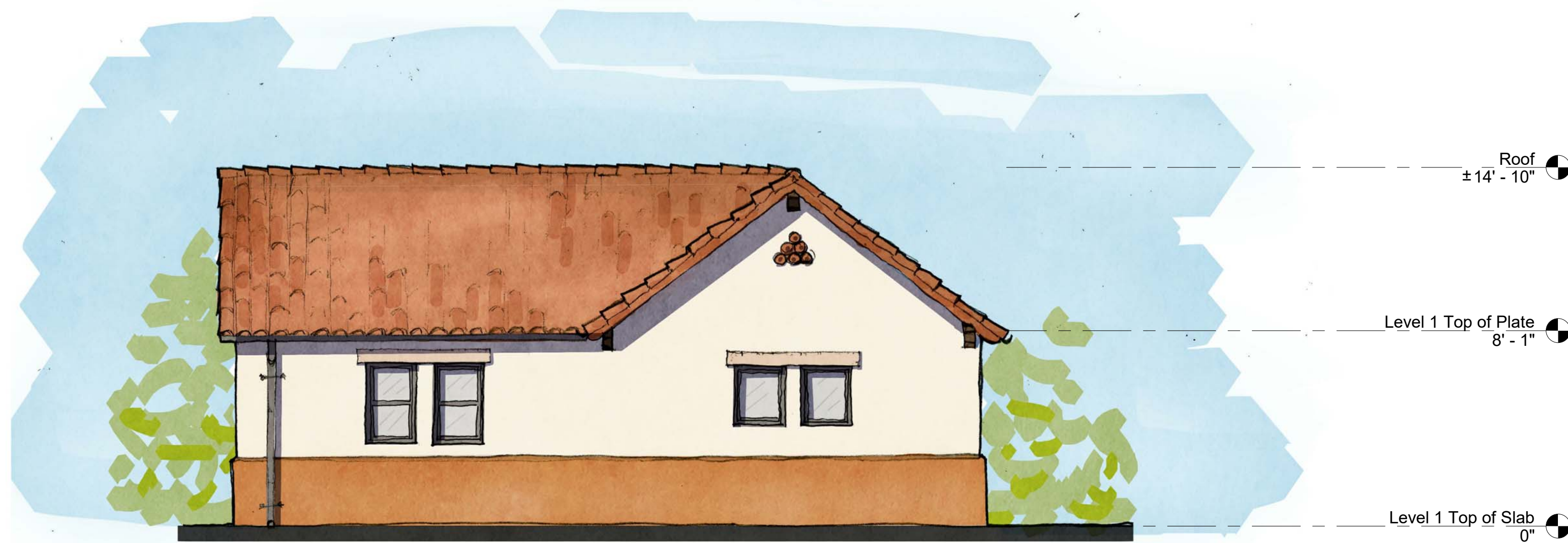
WELCOME HOUSE WEST ELEVATION

1/4" = 1'-0"



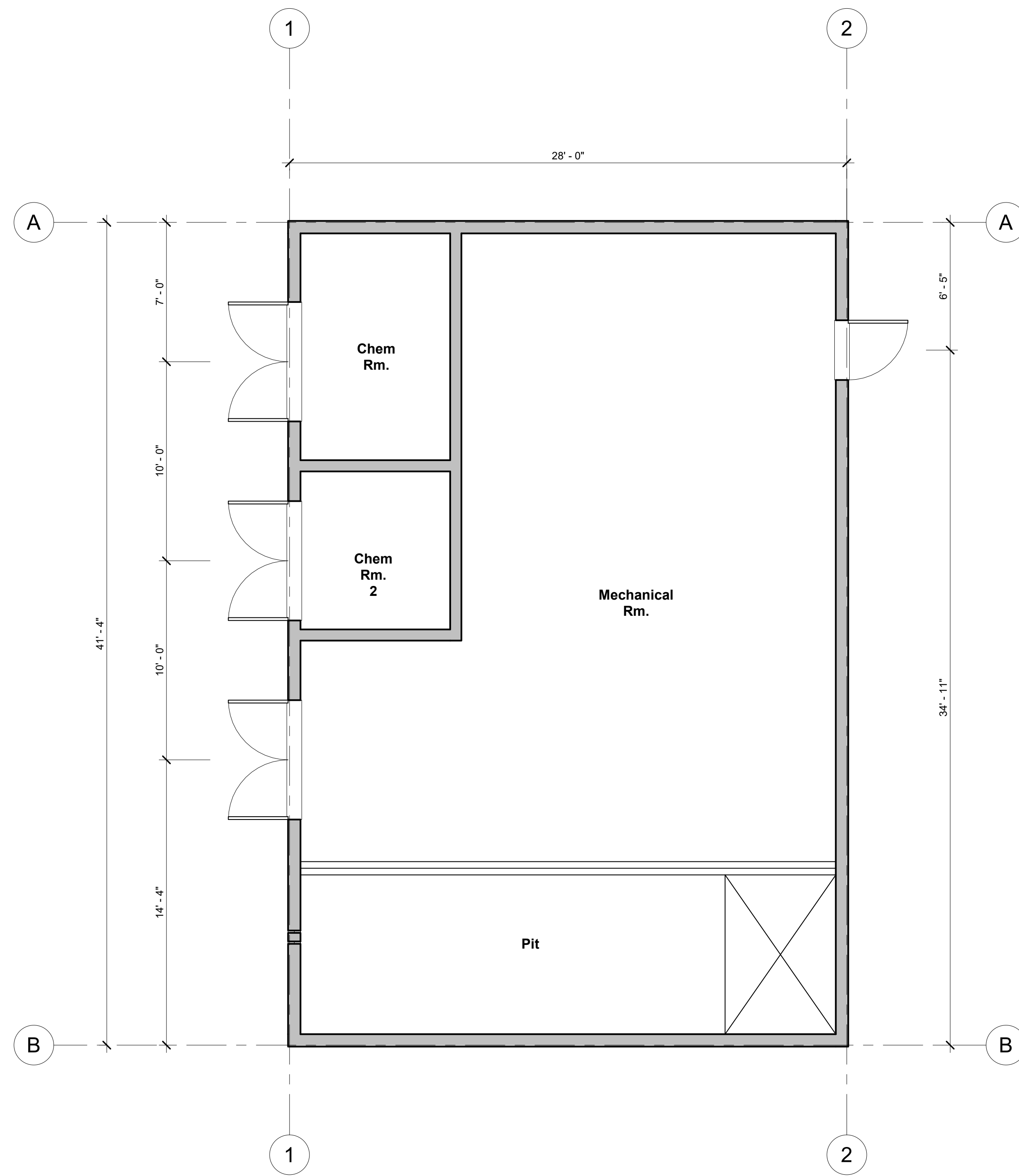
WELCOME HOUSE NORTH ELEVATION

1/4" = 1'-0"



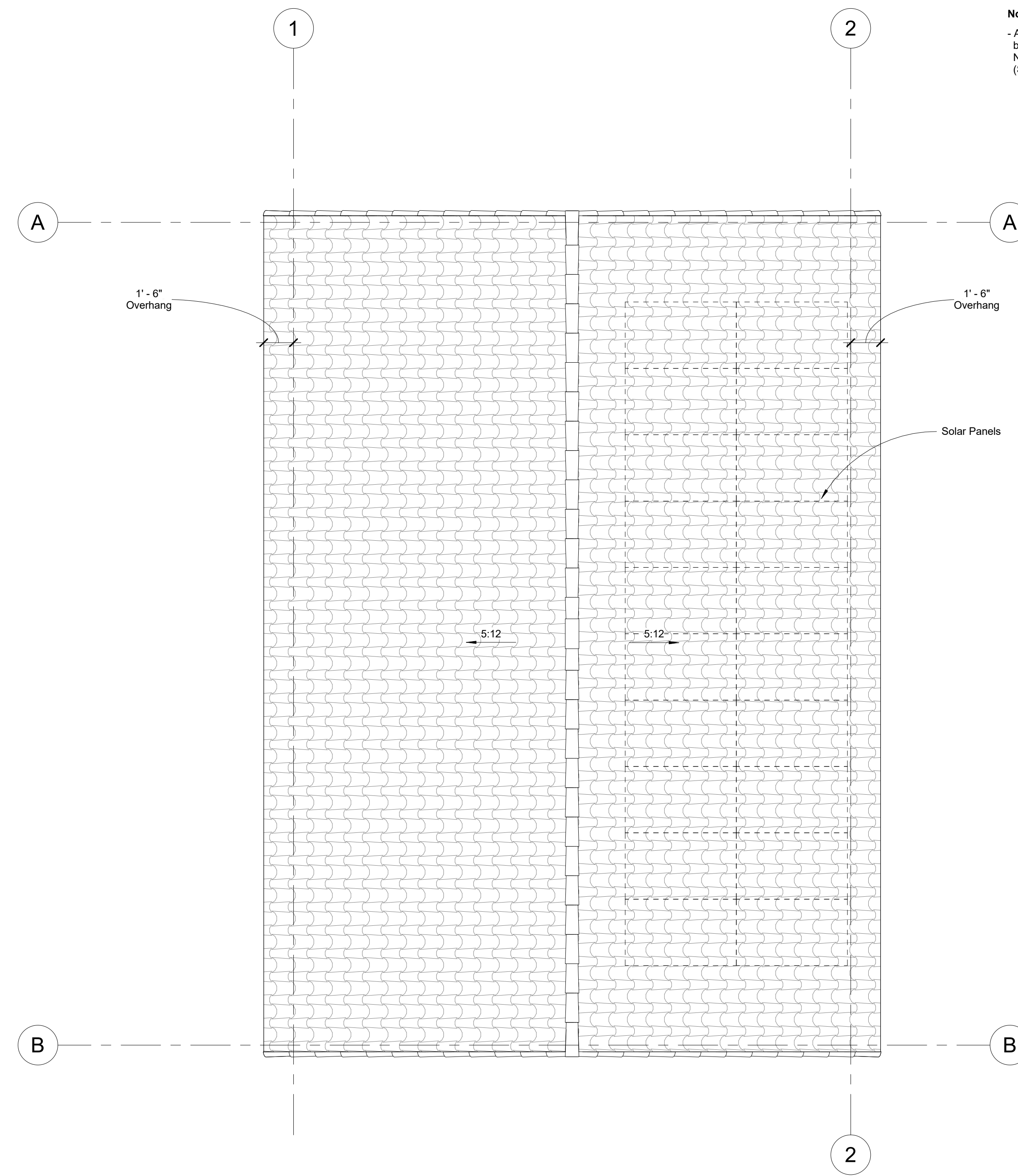
WELCOME HOUSE SOUTH ELEVATION

1/4" = 1'-0"



POOL EQUIPMENT BUILDING FLOOR PLAN

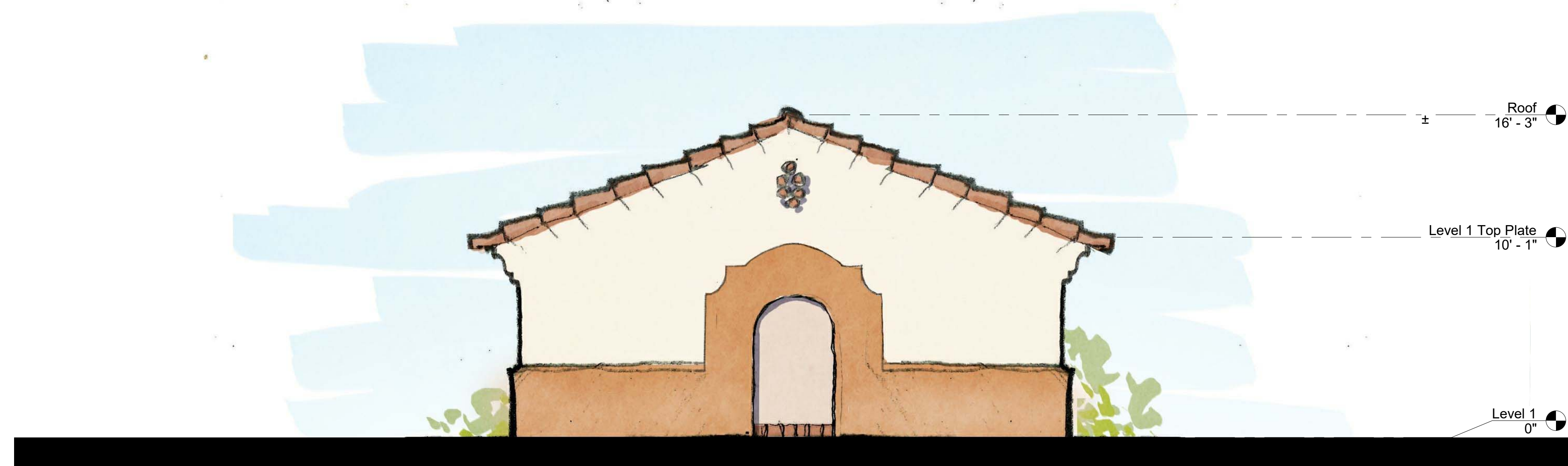
1/4" = 1'-0"



POOL EQUIPMENT BUILDING ROOF PLAN

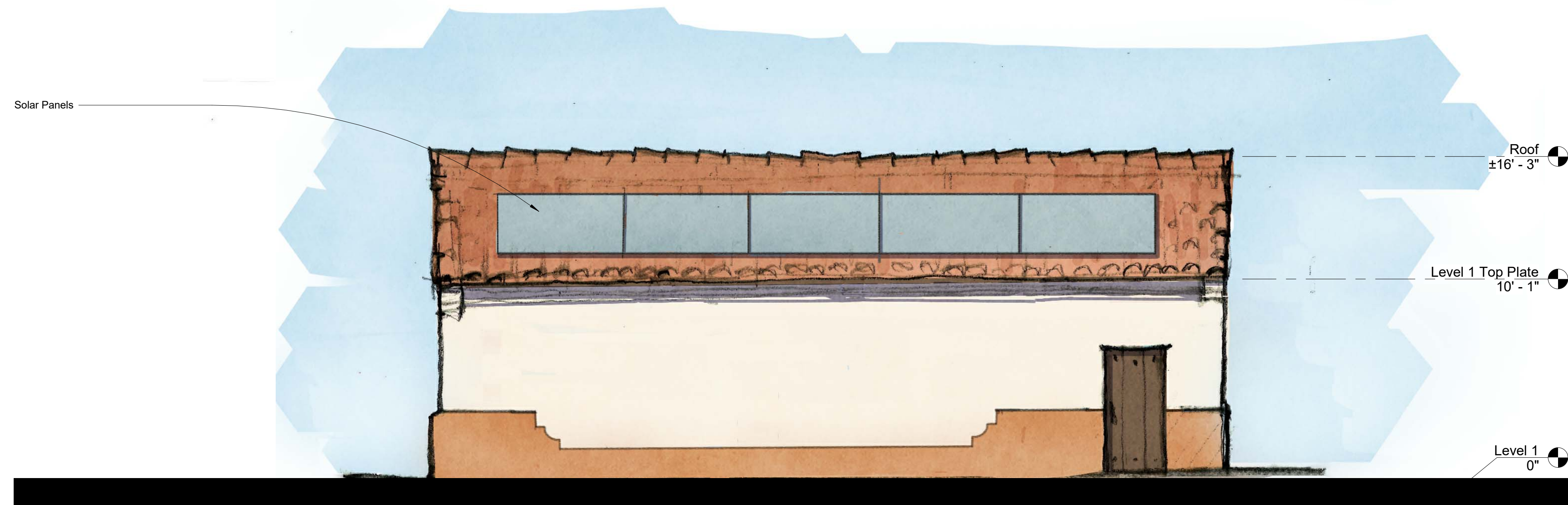
1/4" = 1'-0"

Notes:
 - Automatic sprinkler system to be placed, in accordance with NFPA standards. (SBMC Ch. 8.94, Sec 903.2.20.4)



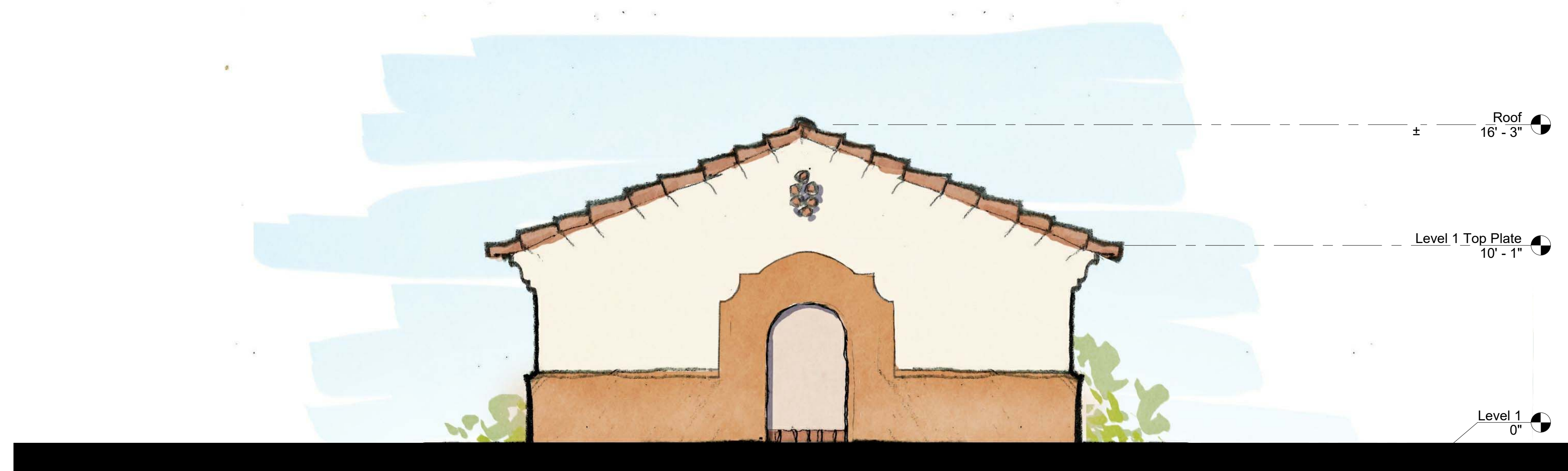
**POOL EQUIPMENT BUILDING WEST
ELEVATION**

1/4" = 1'-0"

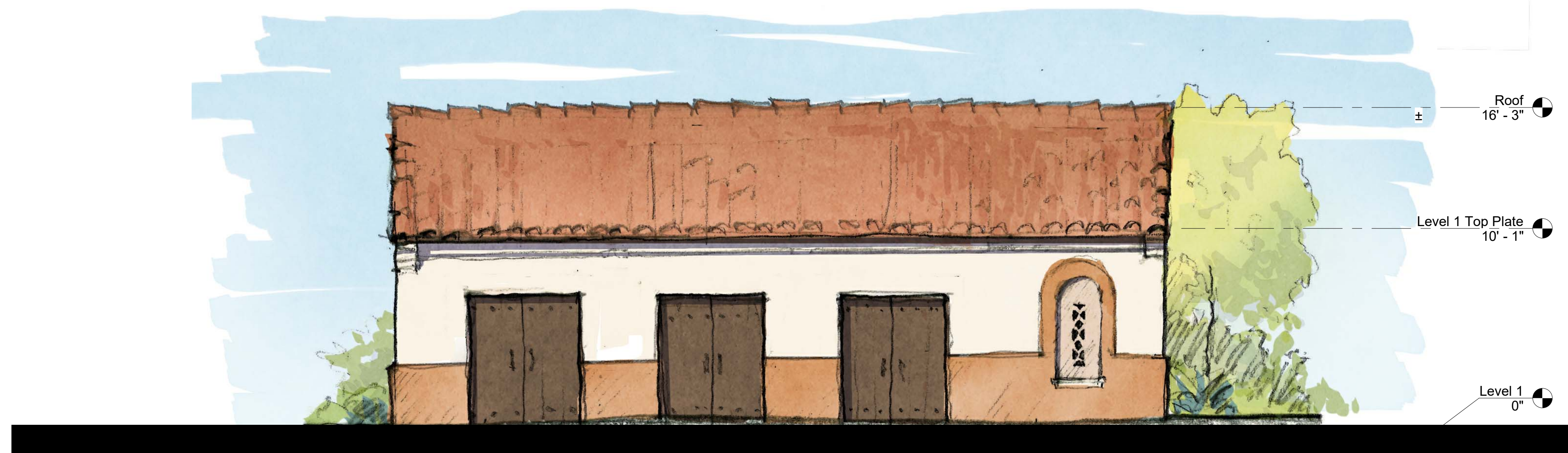


**POOL EQUIPMENT BUILDING SOUTH
ELEVATION**

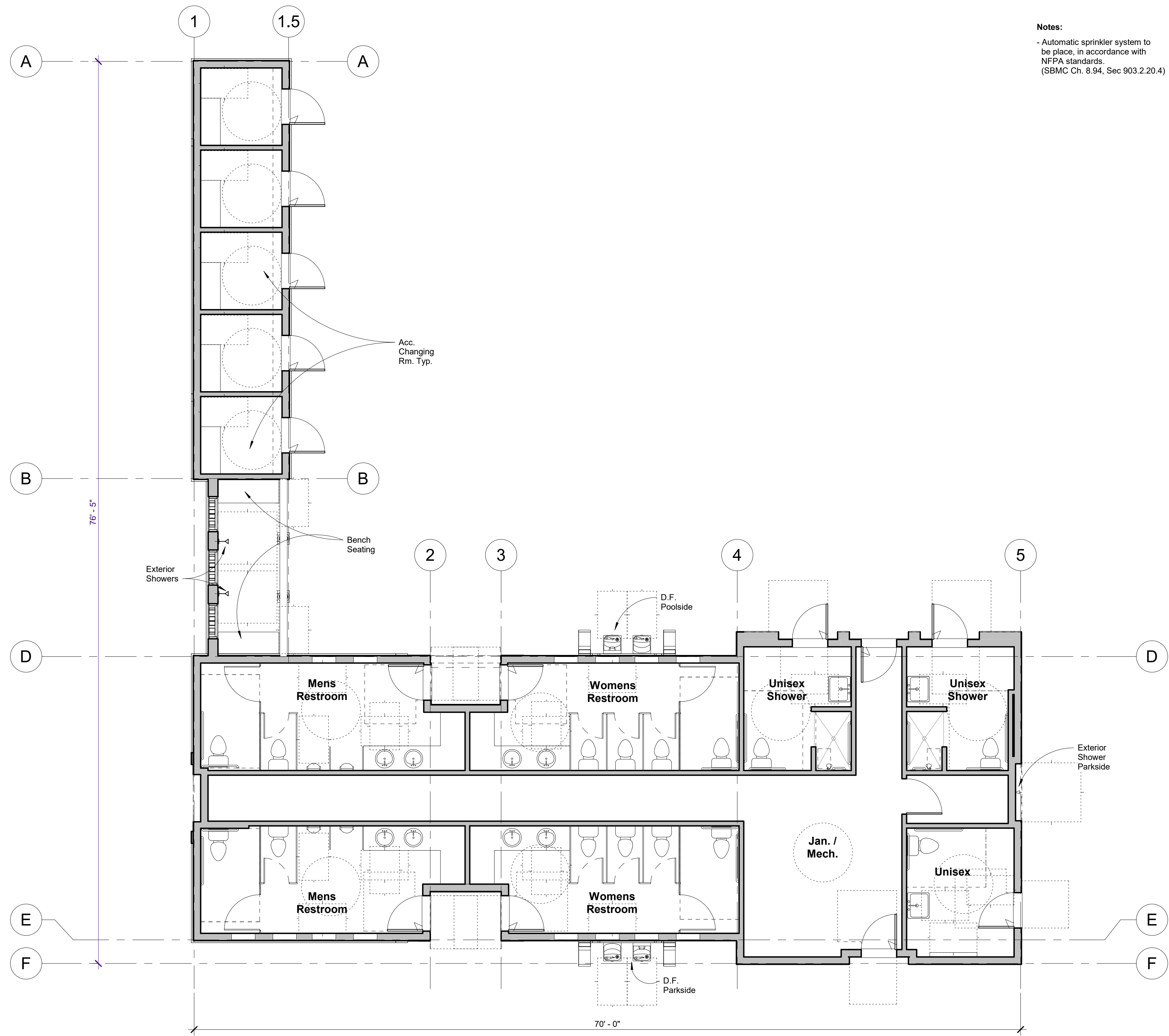
1/4" = 1'-0"



**POOL EQUIPMENT BUILDING EAST
ELEVATION**
1/4" = 1'-0"

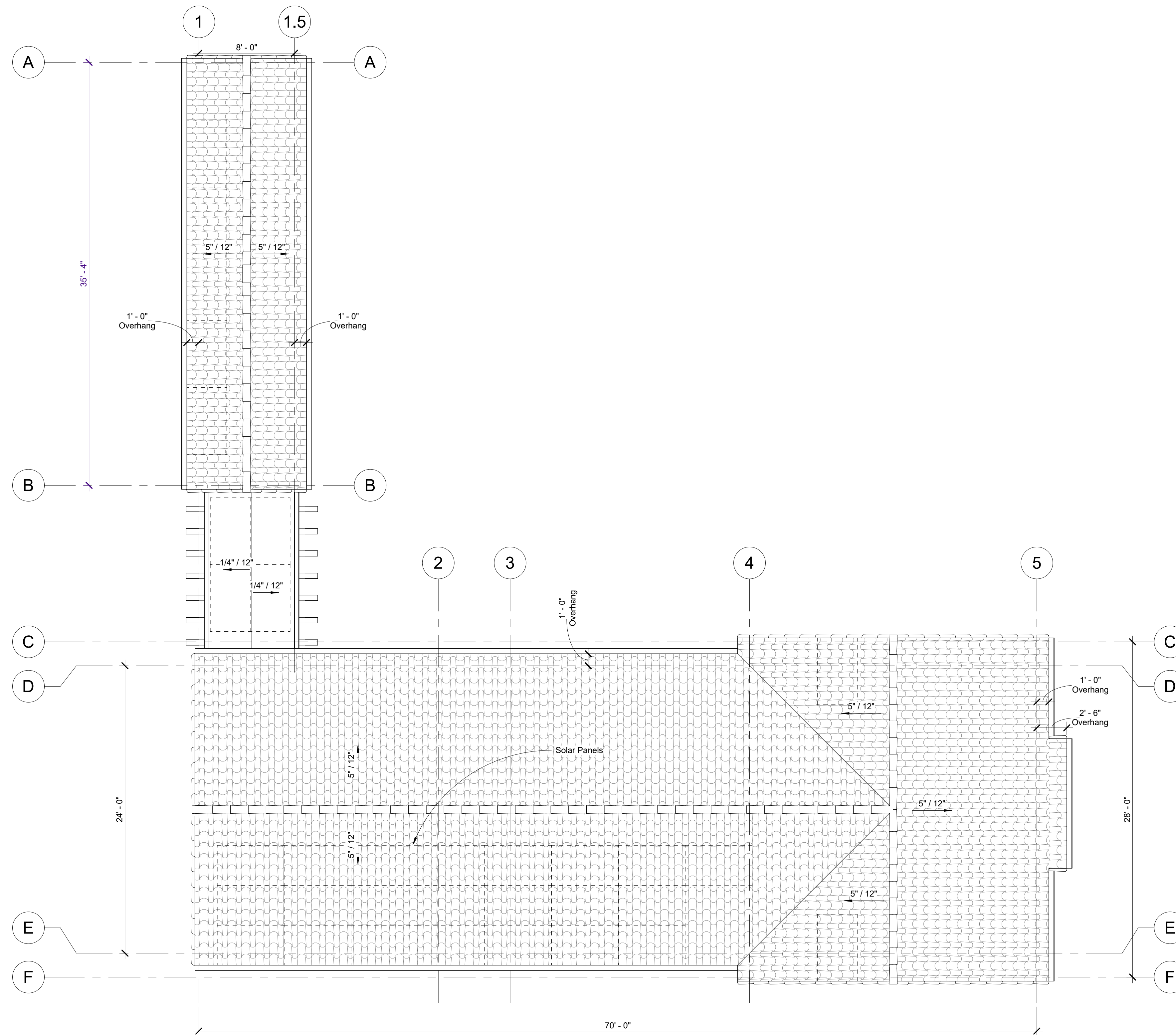


**POOL EQUIPMENT BUILDING NORTH
ELEVATION**
1/4" = 1'-0"



Notes:
 - Automatic sprinkler system to be placed, in accordance with NFPA standards. (SBMC Ch. 8.04, Sec 903.2.20.4)

RESTROOM BUILDING FLOOR PLAN
 3/16" = 1'-0"

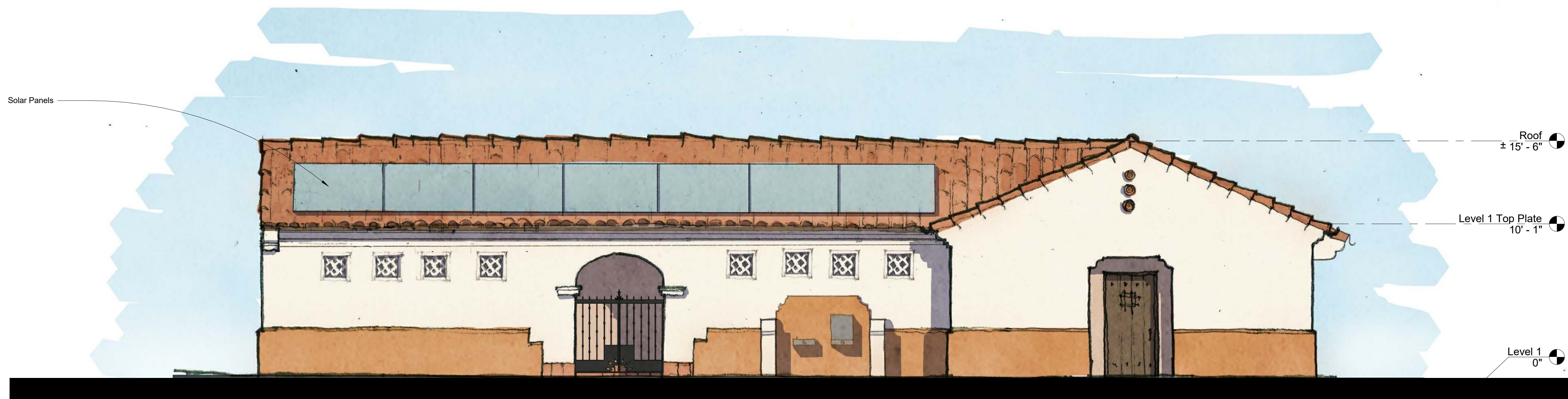


RESTROOM BUILDING ROOF PLAN

3/16" = 1'-0"



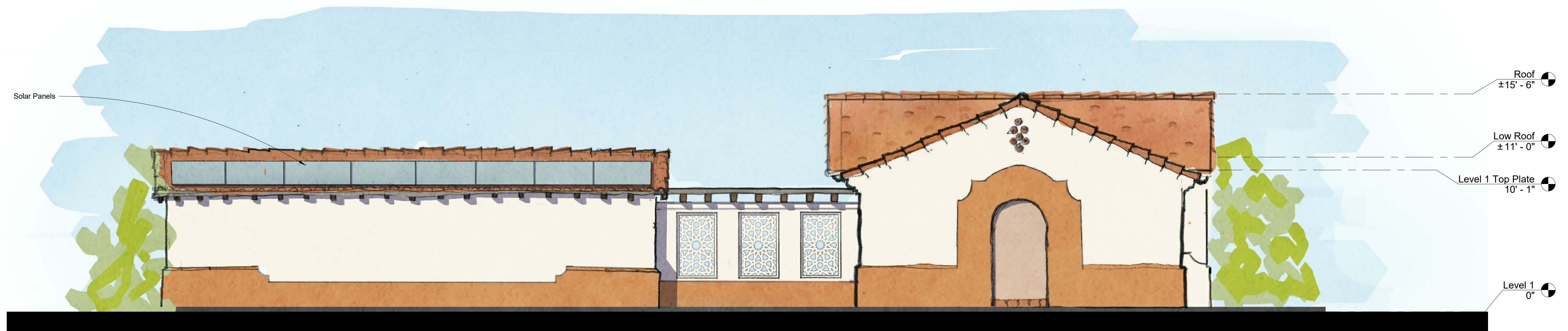
RESTROOM BUILDING NORTH ELEVATION
1/4" = 1'-0"



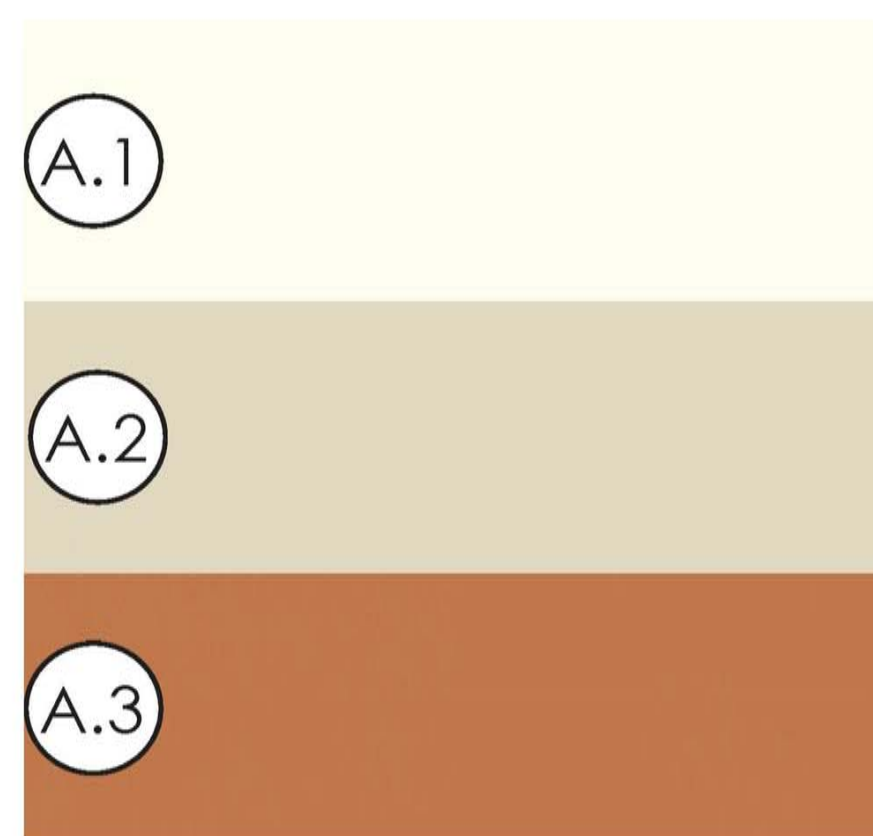
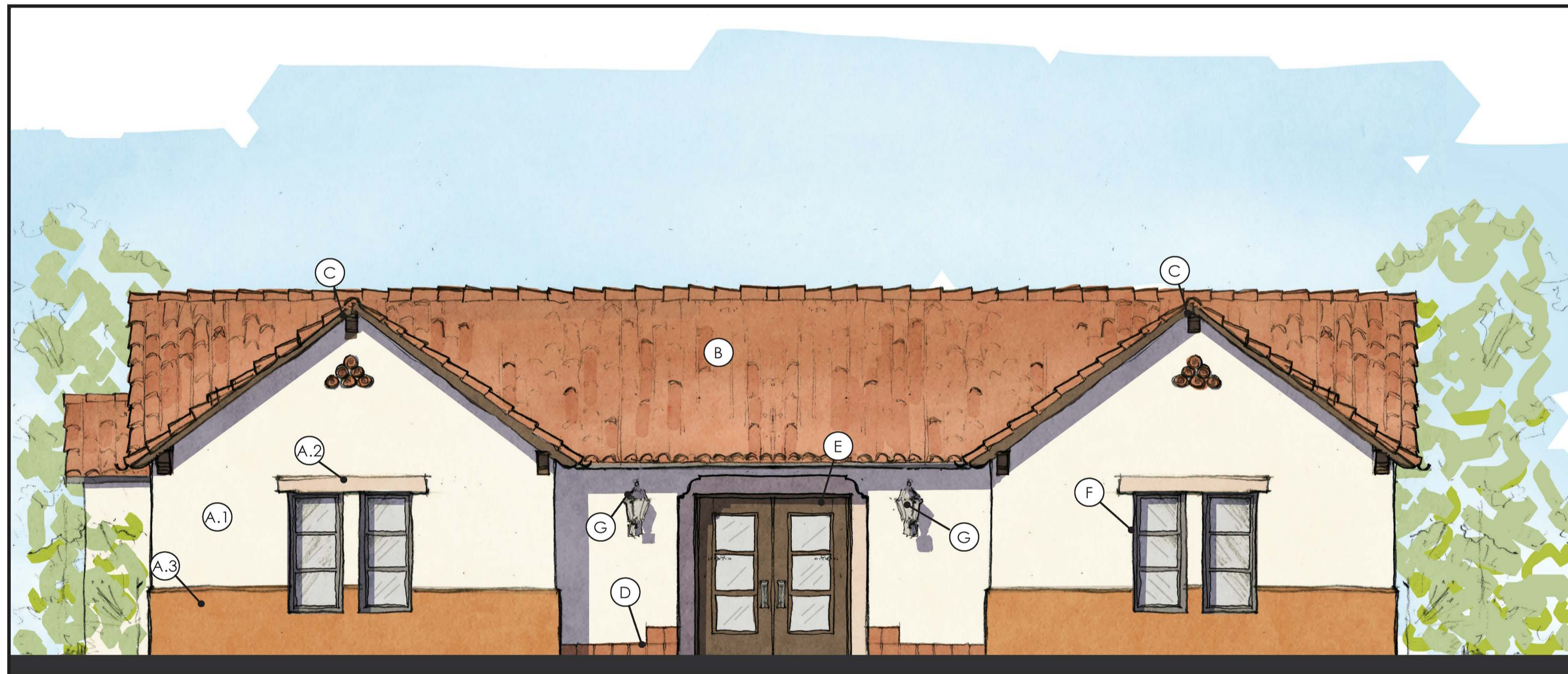
RESTROOM BUILDING SOUTH ELEVATION
1/4" = 1'-0"



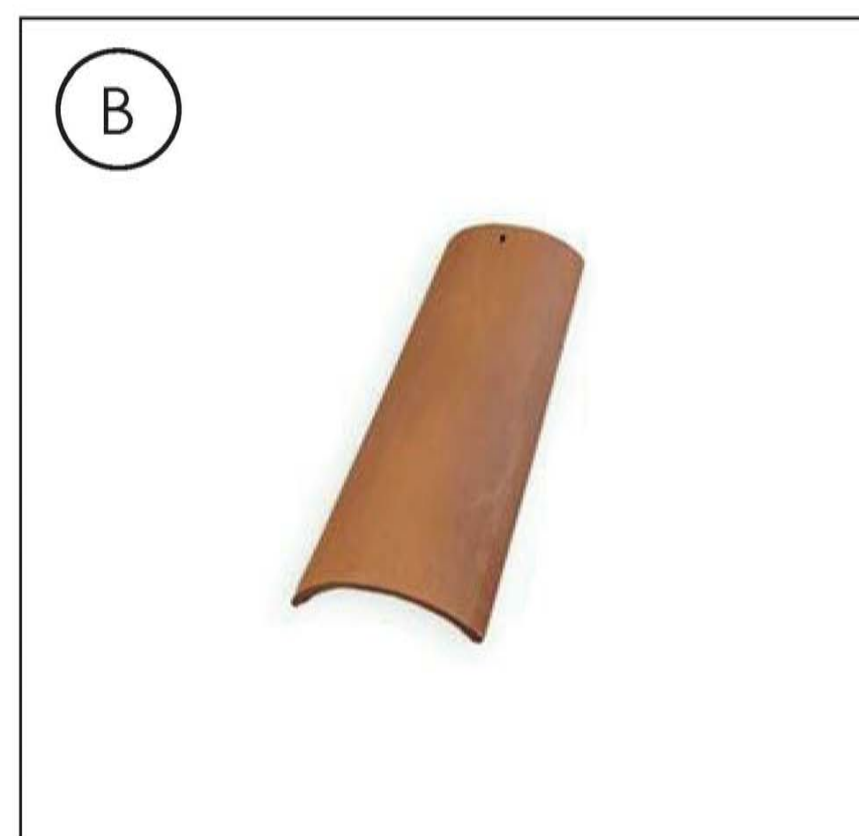
RESTROOM BUILDING EAST ELEVATION
1/4" = 1'-0"



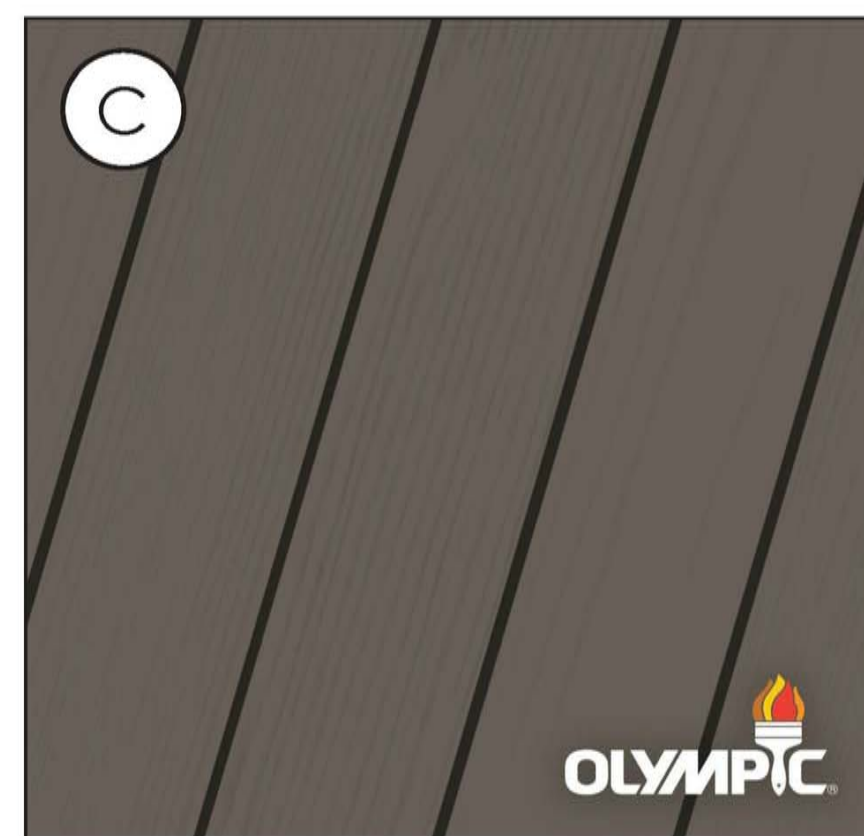
RESTROOM BUILDING WEST ELEVATION
1/4" = 1'-0"



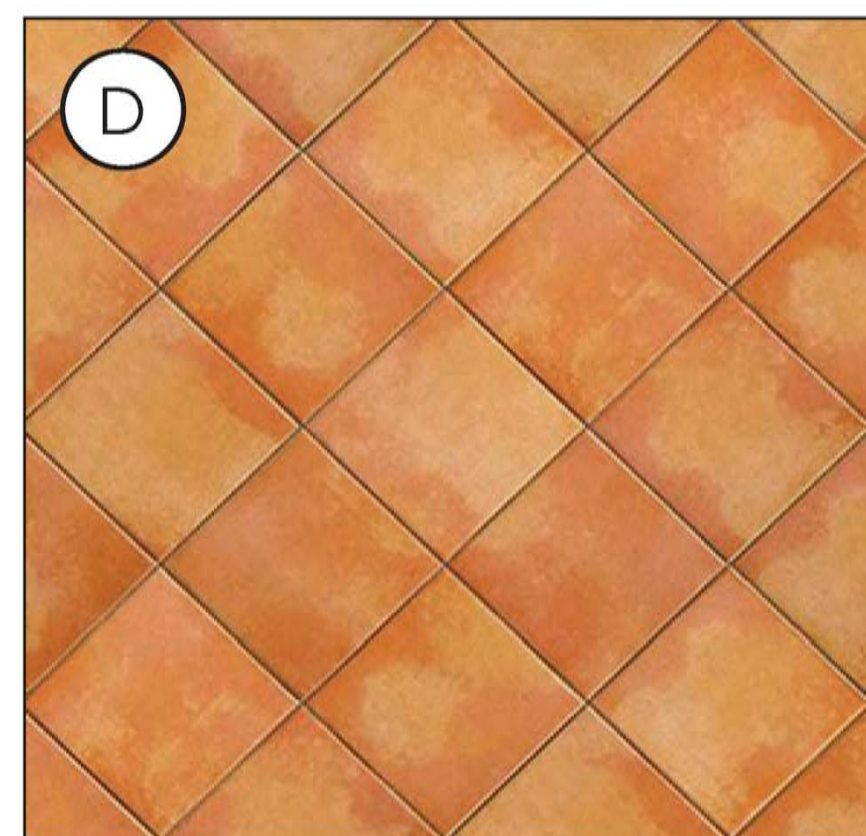
STUCCO: SANTA BARBARA
 COLOR : A.1 LA HABRA EGG SHELL
 A.2 DUNN EDWARDS 970
 A.3 DUNN EDWARDS 763



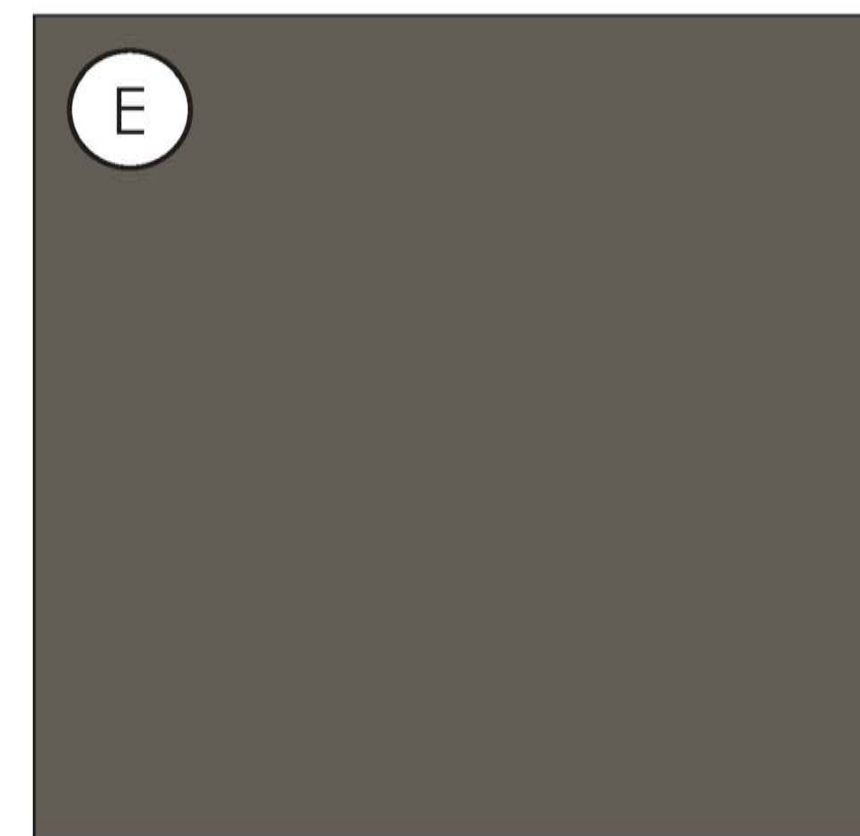
CLAY TILE ROOFING
 REDLAND CLAY TILE: CAFE ANTIGUA



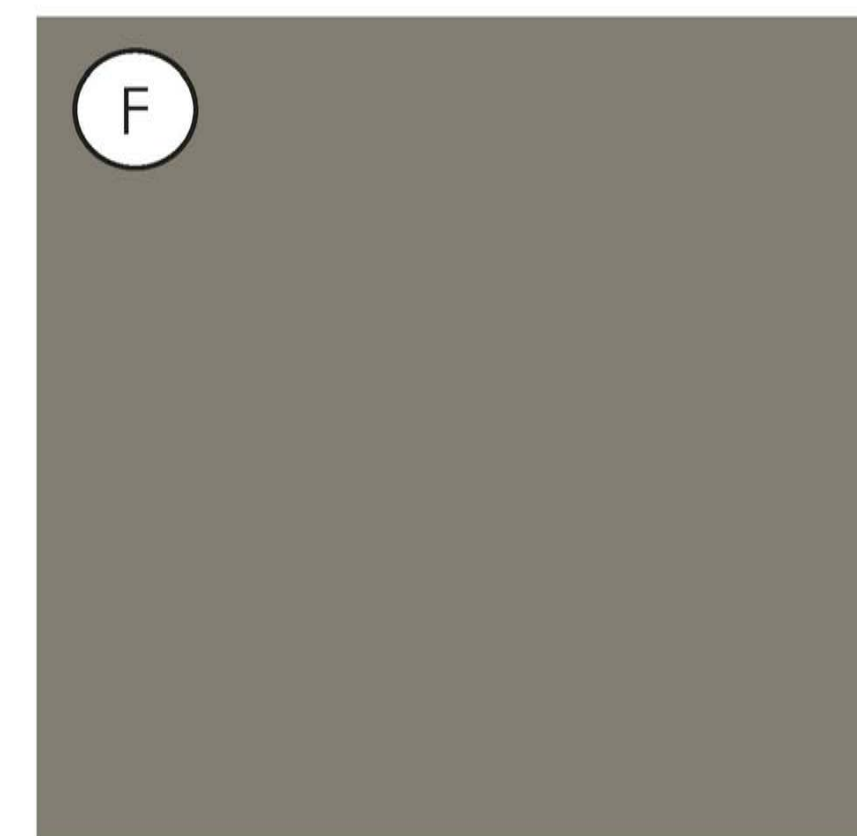
WOOD RAFTERS
 OLYMPIC OXFORD BROWN



SALTILLO TILE
 TERRACOTA



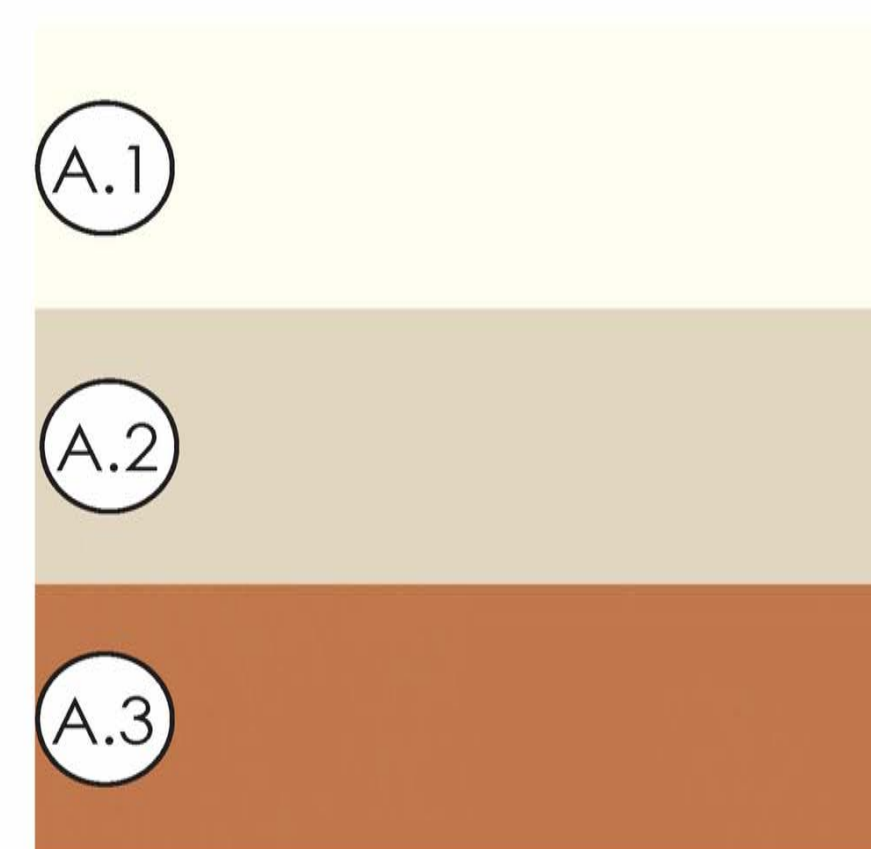
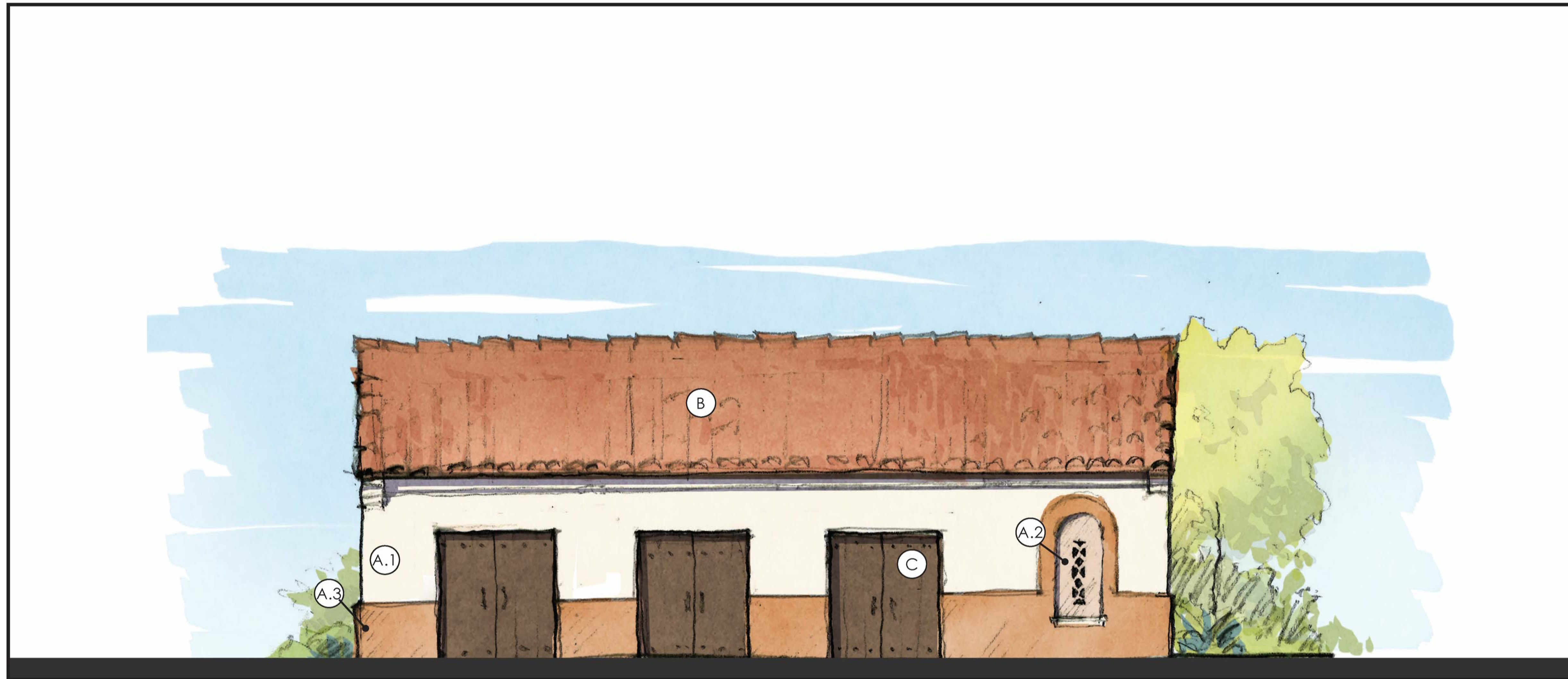
STEEL DOORS
 COLOR : WEATHERED BROWN



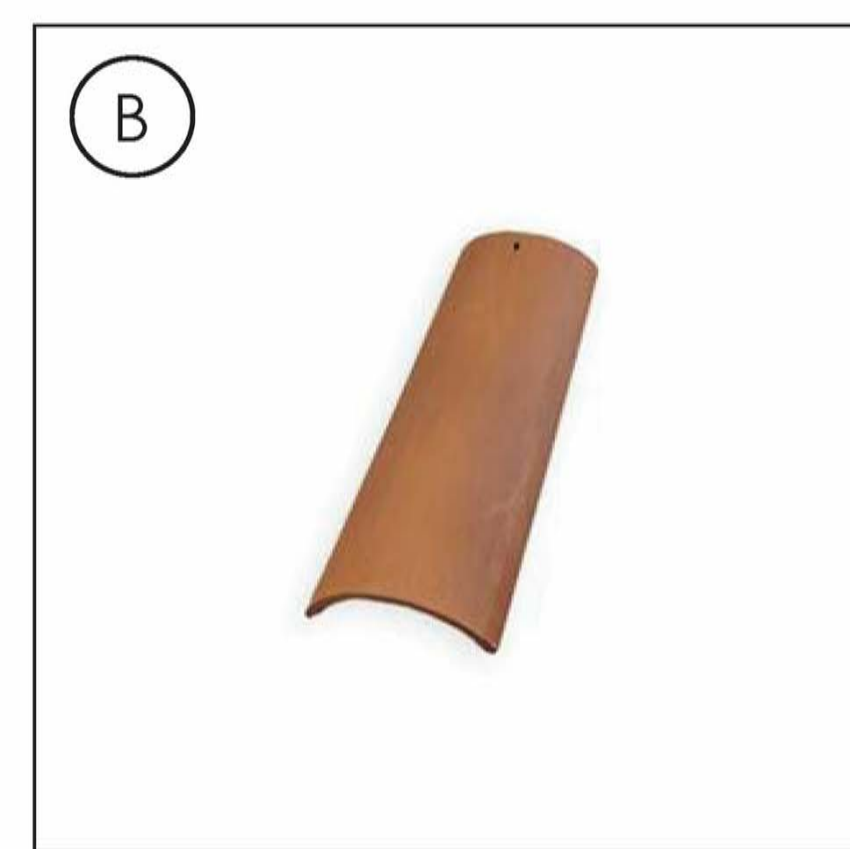
WINDOW & FRAME
 COLOR : METAL FRINGE



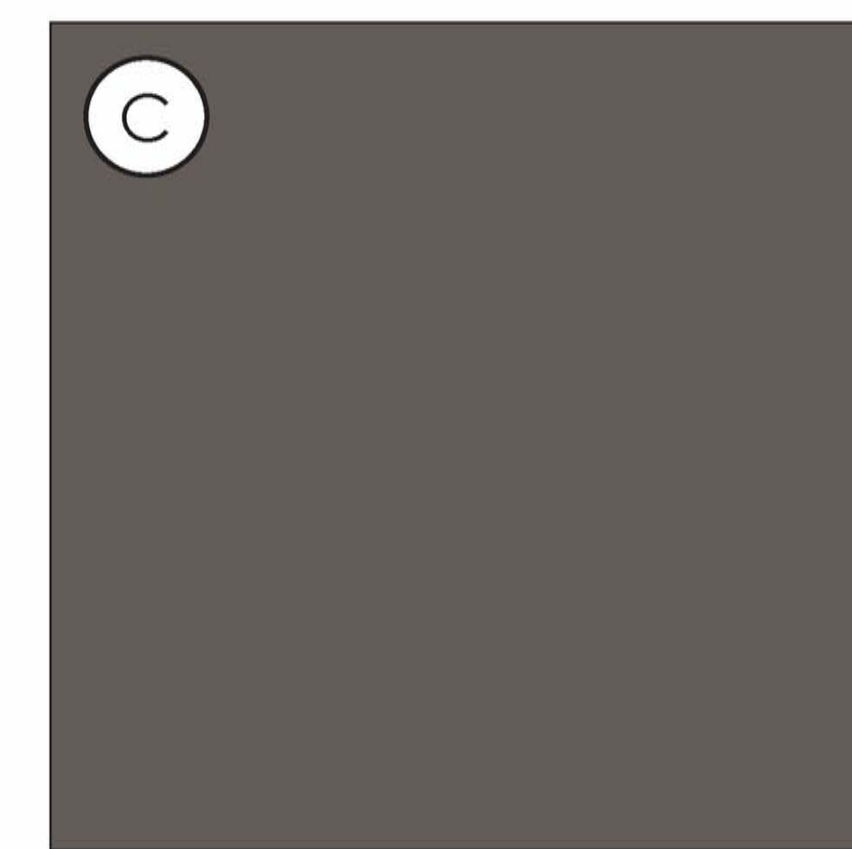
EXTERIOR LIGHT FIXTURES
 HANDLEMEN
 EMERSON 8" WALL



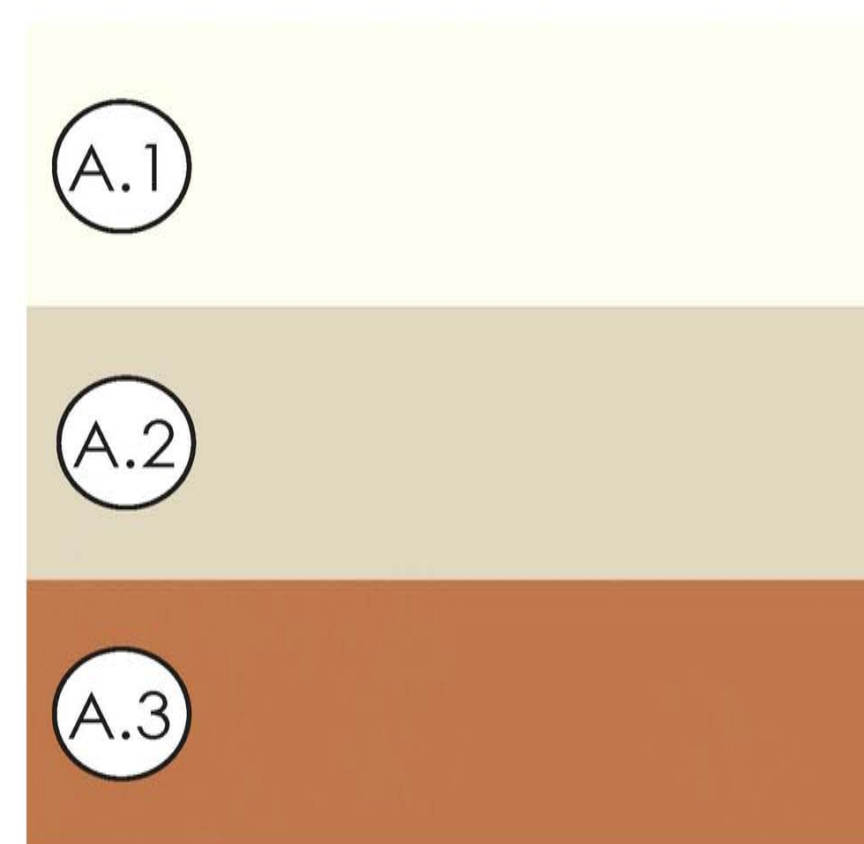
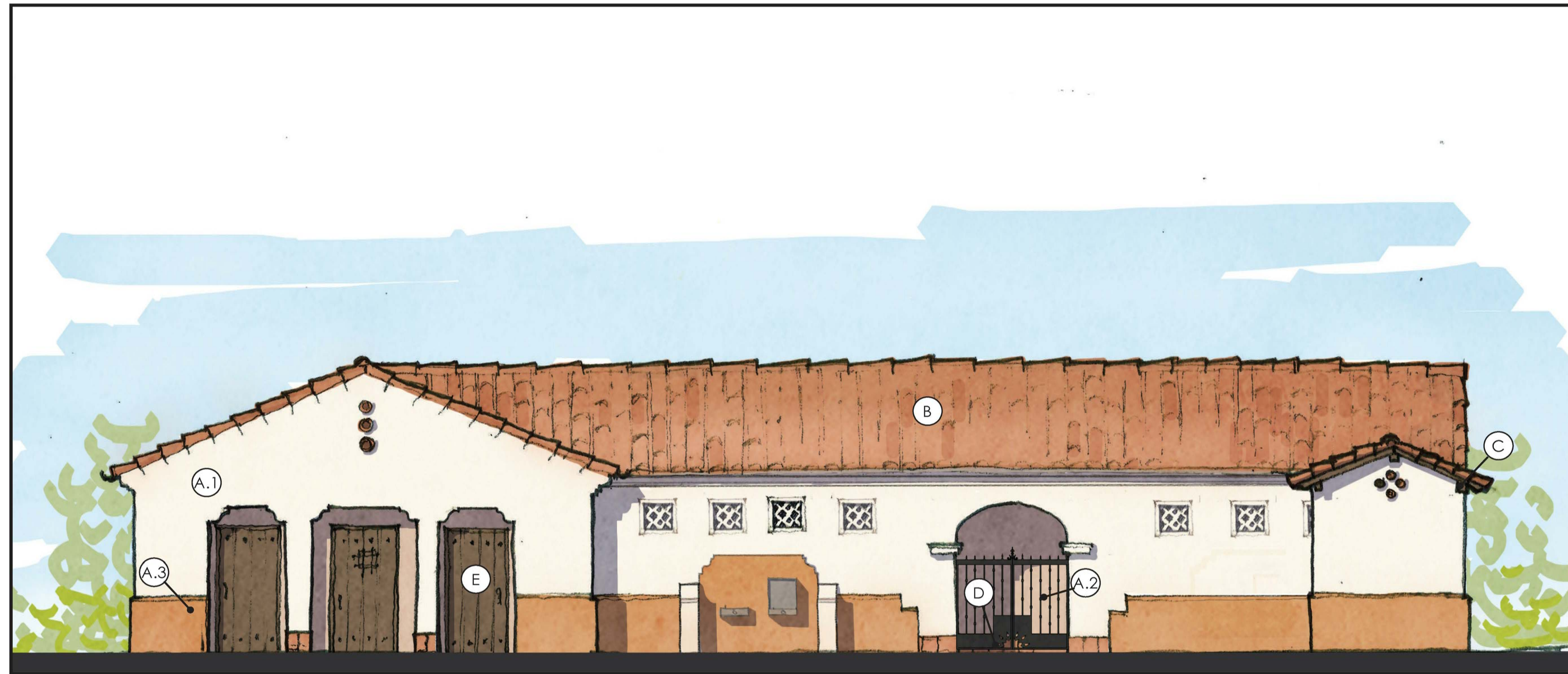
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 COLOR : A.1 LA HABRA EGG SHELL
 A.2 DUNN EDWARDS 970
 A.3 DUNN EDWARDS 763



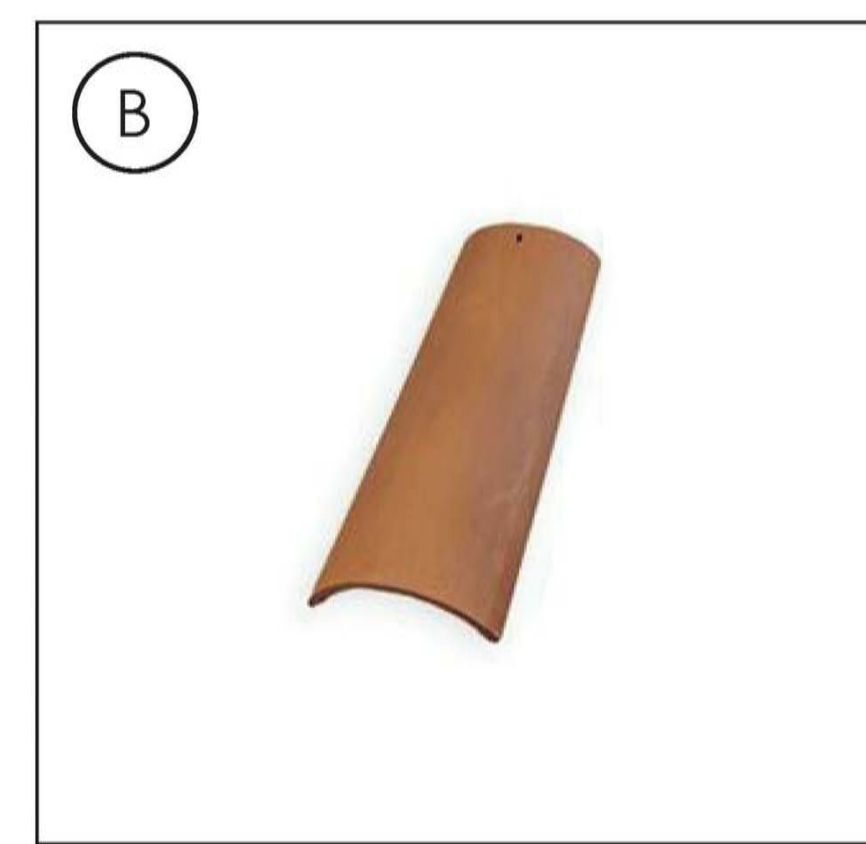
CLAY TILE ROOFING
 REDLAND CLAY TILE: CAFE ANTIGUA



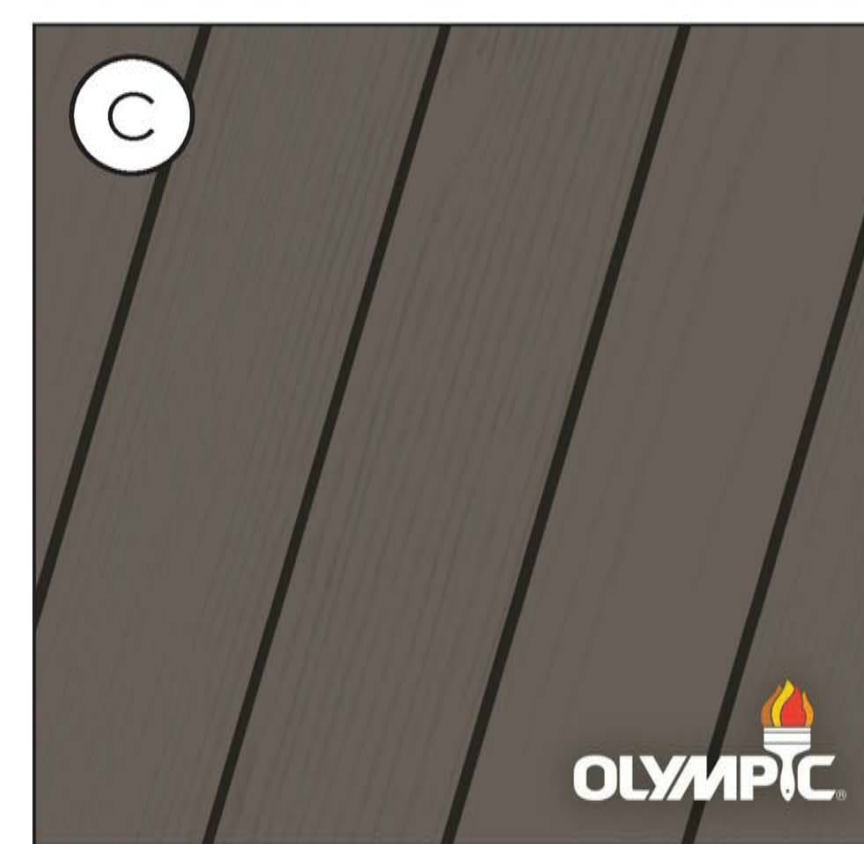
STEEL DOORS
 COLOR : WEATHERED BROWN



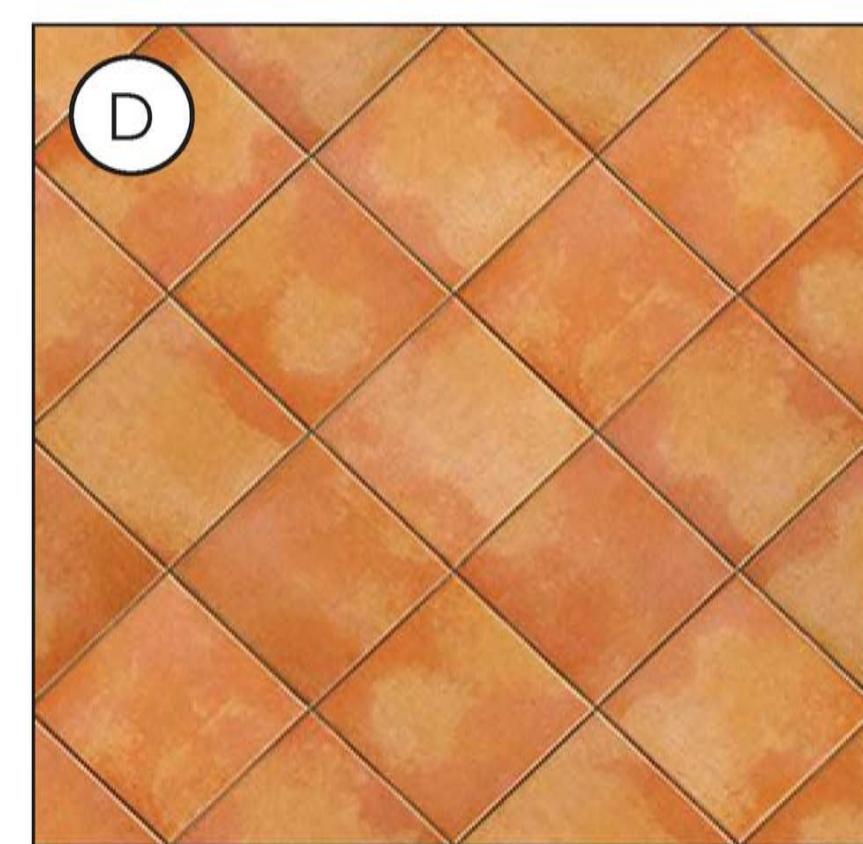
STUCCO: SANTA BARBARA
 COLOR : A.1 LA HABRA EGG SHELL
 A.2 DUNN EDWARDS 970
 A.3 DUNN EDWARDS 763



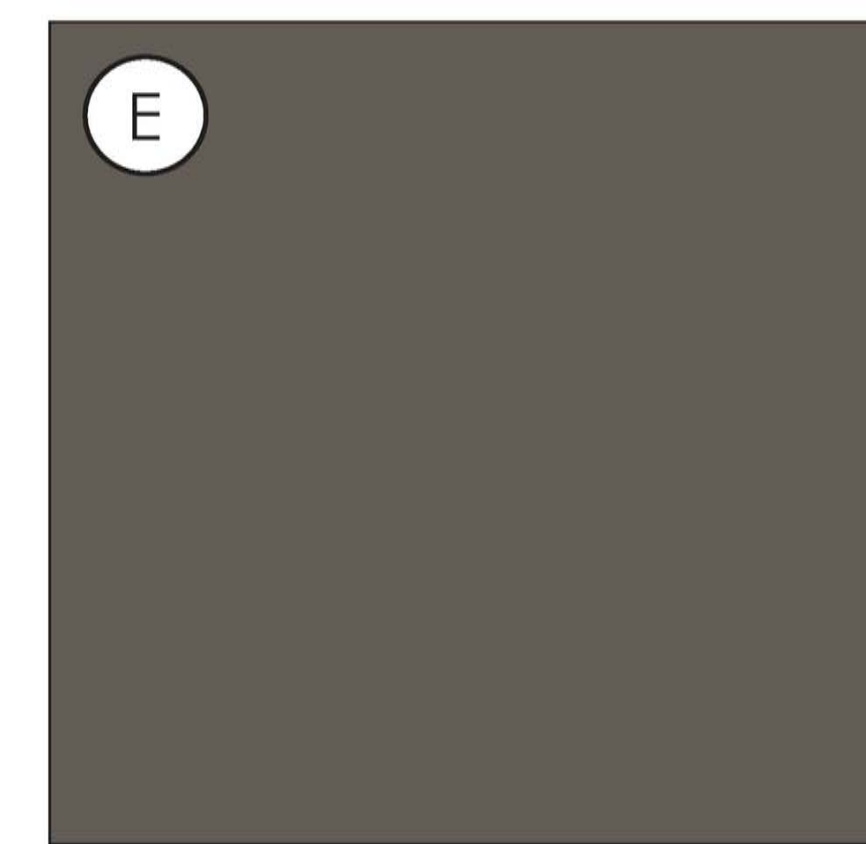
CLAY TILE ROOFING
 REDLAND CLAY TILE: CAFE ANTIGUA



WOOD RAFTERS
 OLYMPIC OXFORD BROWN



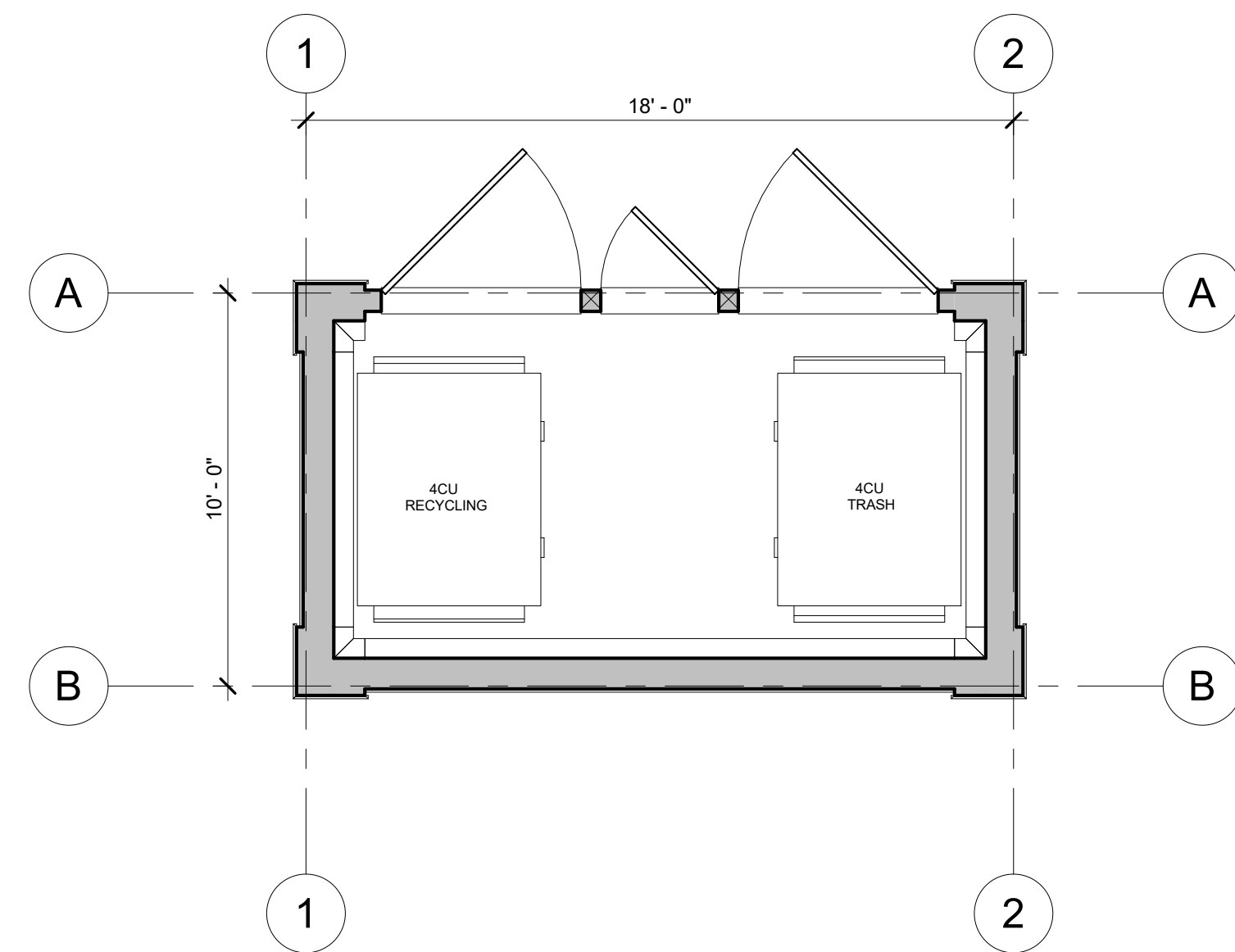
SALTILLO TILE
 TERRACOTA



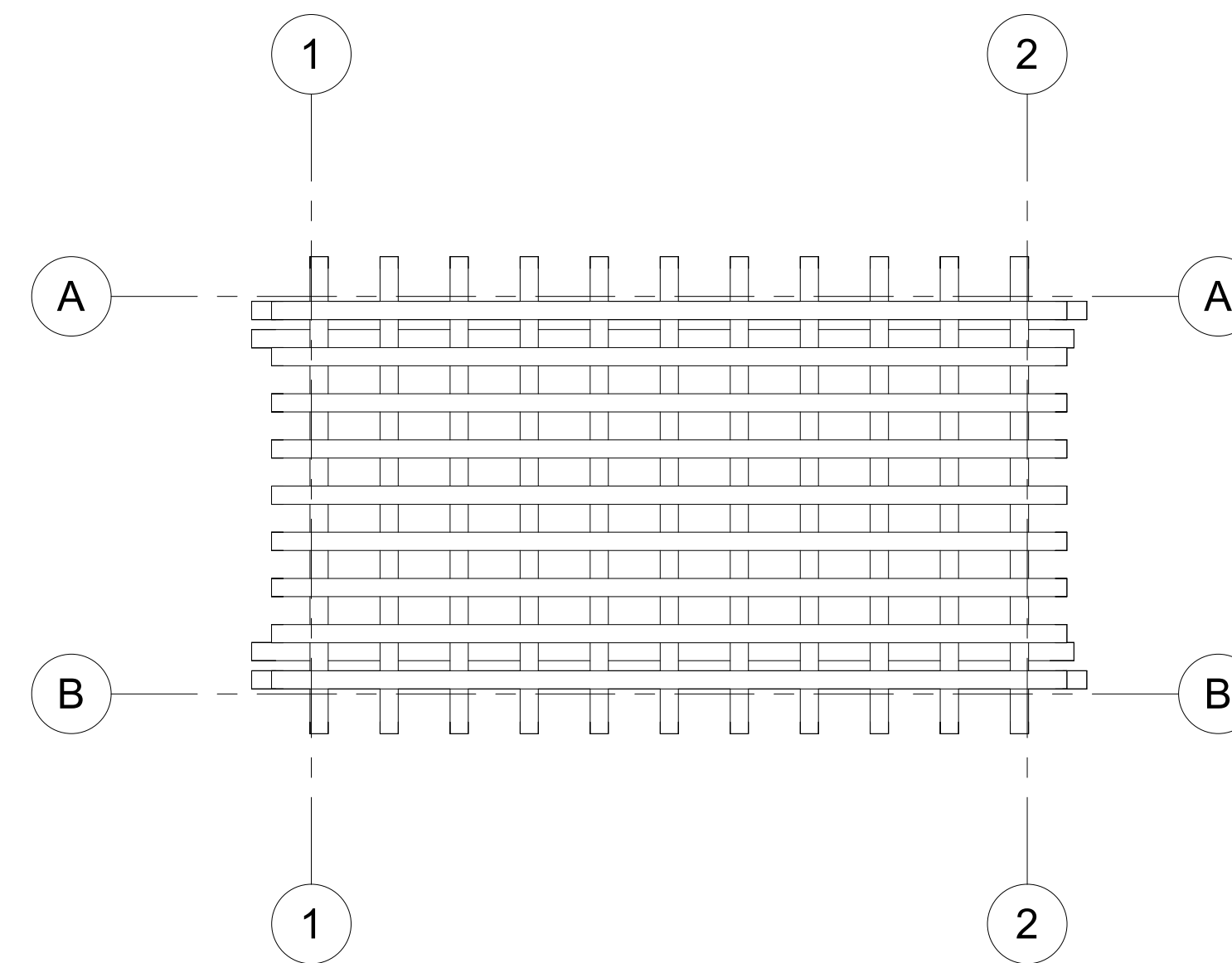
STEEL DOORS
 COLOR : WEATHERED BROWN



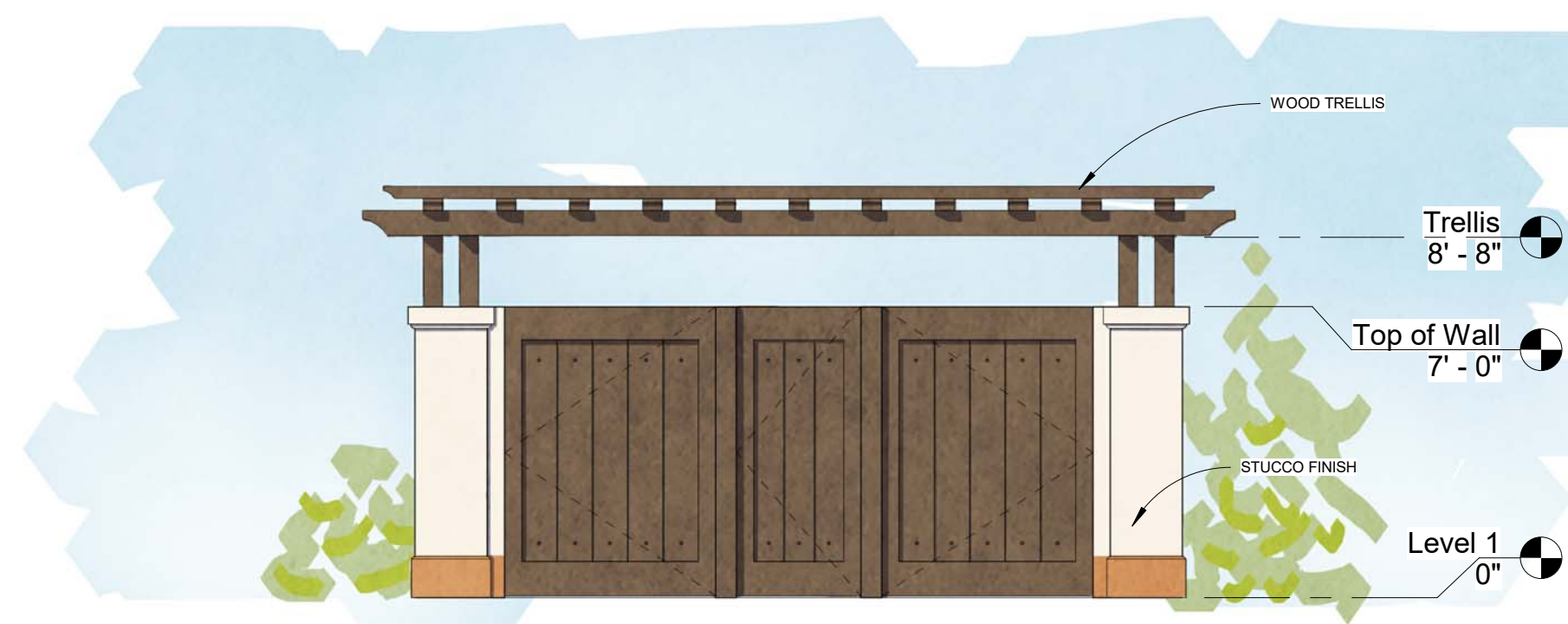
DALTILE
 COLOR : ATLANTIS
 COLOR: NAVY
 (AT SHOWER AREA)



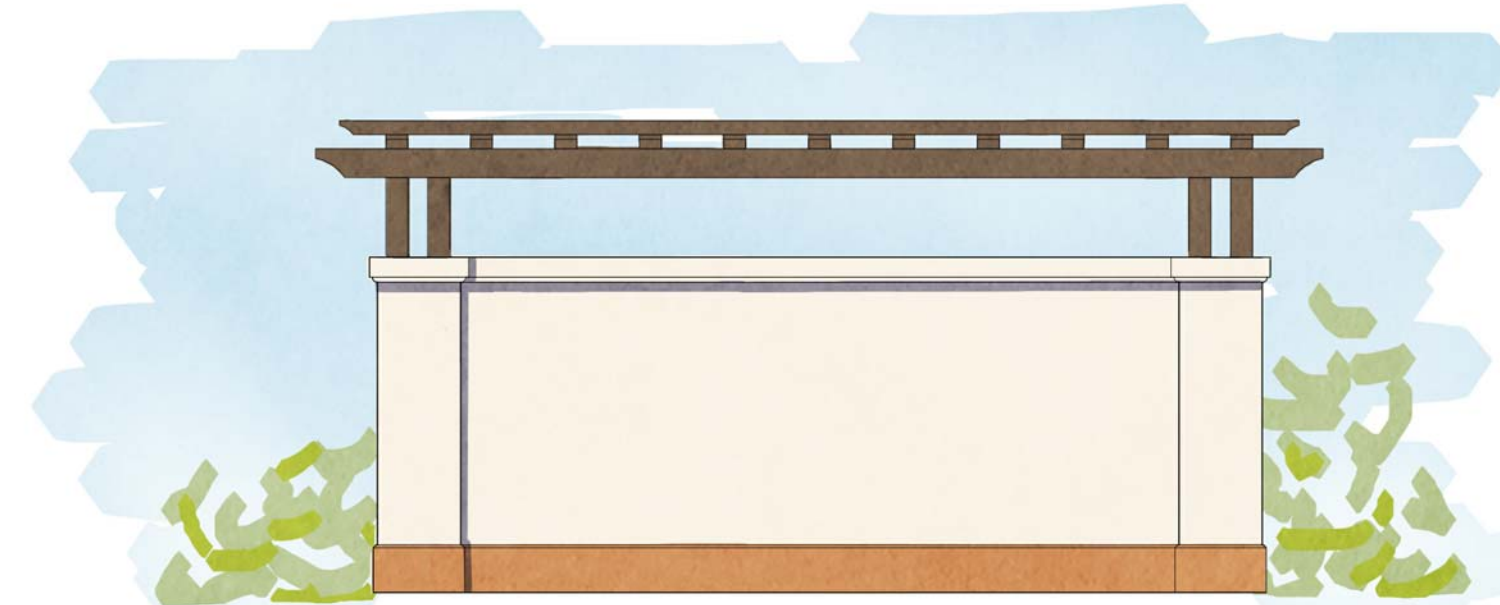
PLAN VIEW
1/4" = 1'-0"



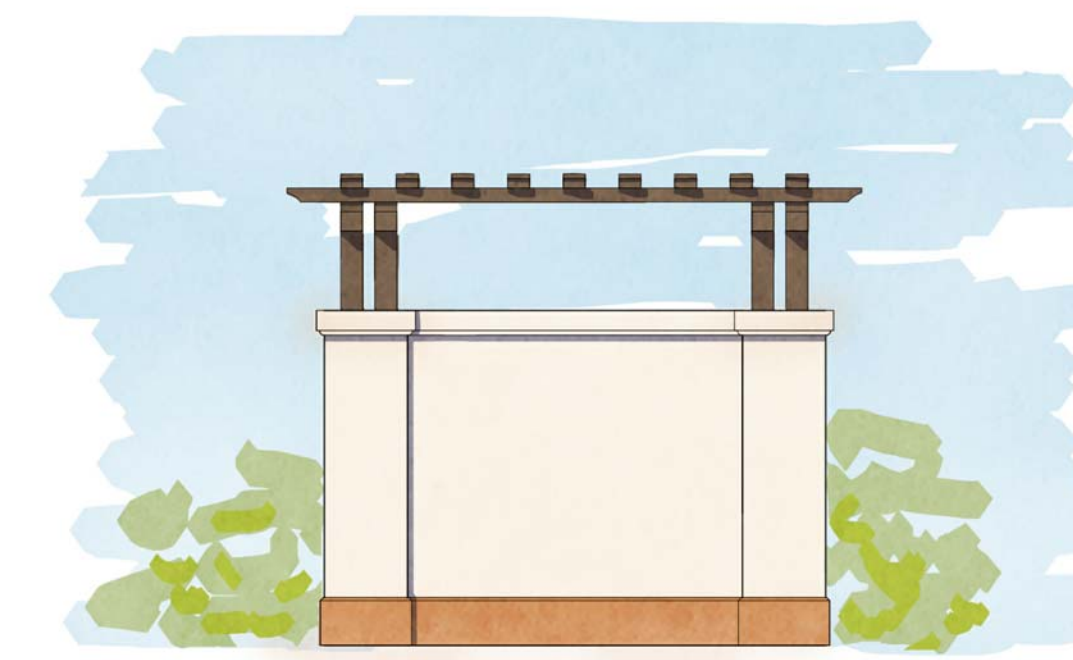
TRELLIS PLAN VIEW
1/4" = 1'-0"



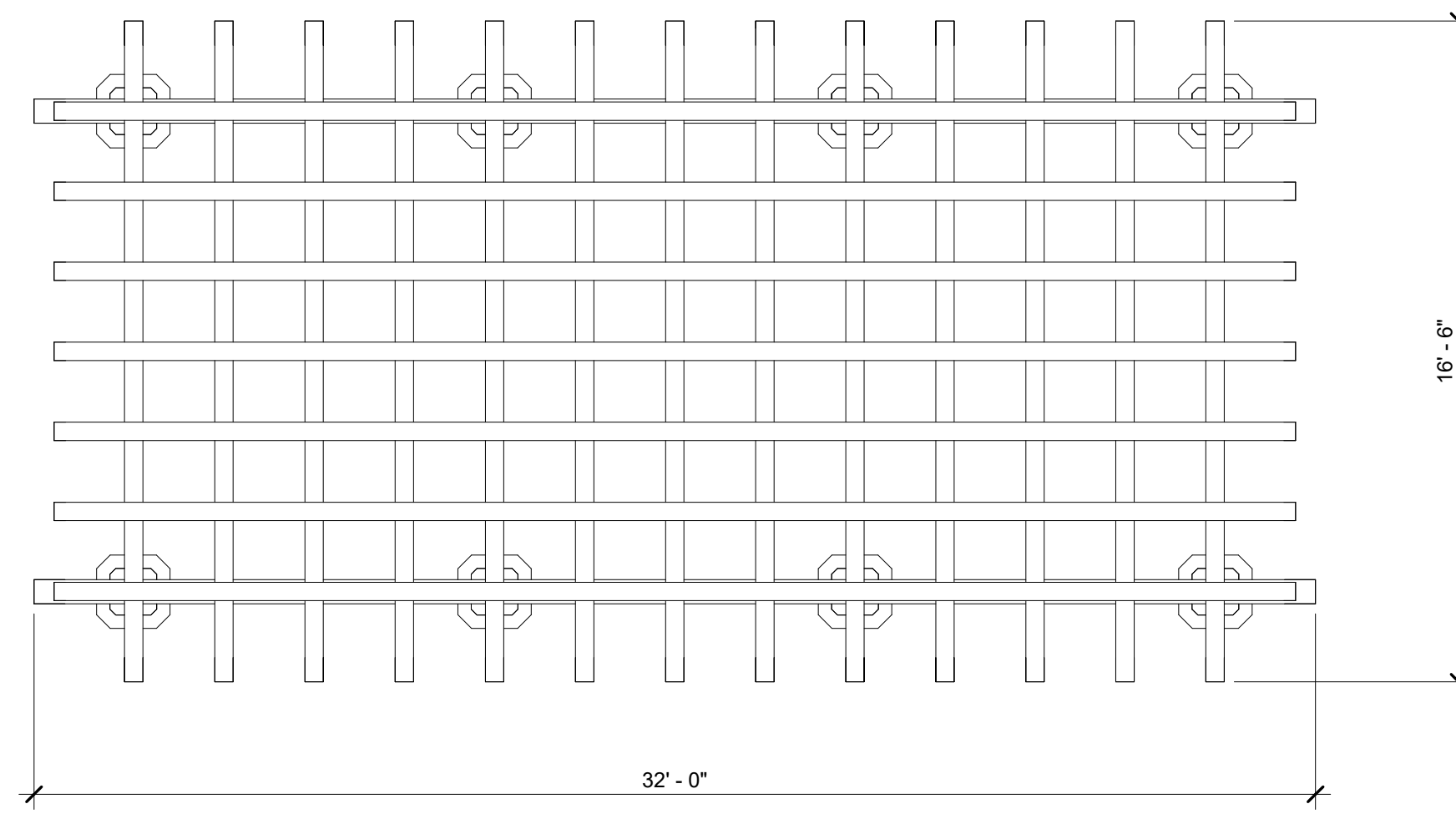
EAST ELEVATION
1/4" = 1'-0"



WEST ELEVATION
1/4" = 1'-0"

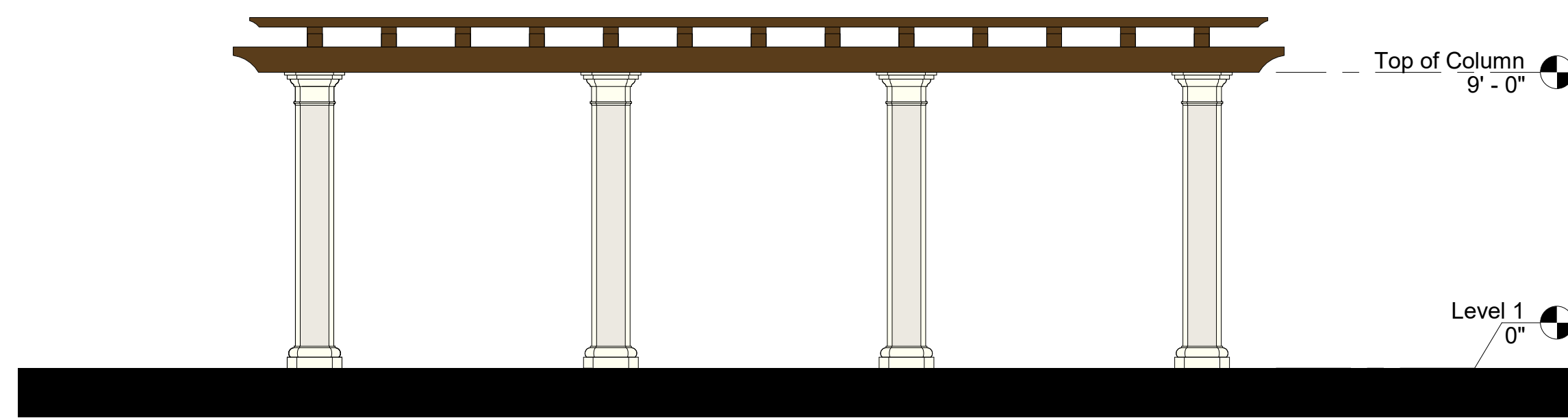


NORTH ELEVATION
1/4" = 1'-0"



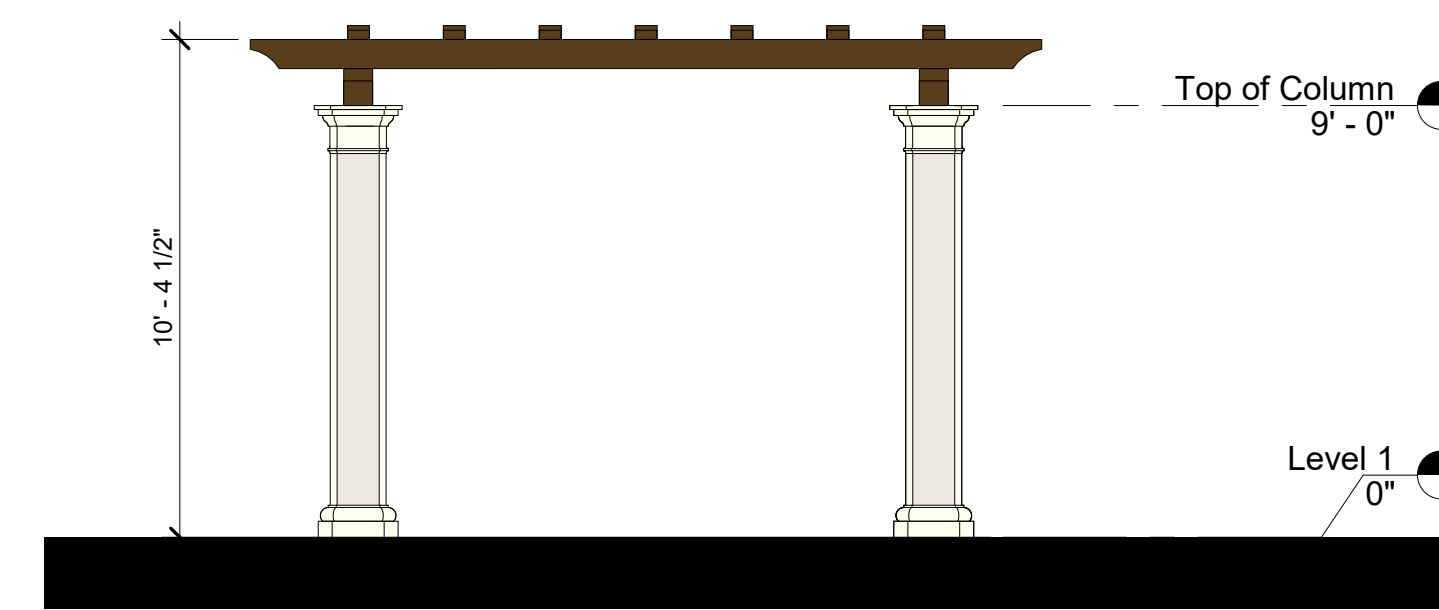
PLAN VIEW TRELLIS

1/4" = 1'-0"



West Elevation

1/4" = 1'-0"



East Elevation

1/4" = 1'-0"

Lighting System

Pole / Fixture Summary							
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit	
A1	70'	70'	4	TLC-LED-900	3.56 kW	C	
BB1-BB2	40'	40'	2	TLC-LED-400	0.80 kW	C	
S1	60'	60'	1	TLC-LED-1200	1.17 kW	A	
		60'	1	TLC-LED-600	0.58 kW	A	
		60'	3	TLC-LED-900	2.67 kW	A	
S2	60'	60'	1	TLC-LED-1200	1.17 kW	B	
		60'	1	TLC-LED-600	0.58 kW	B	
S3	70'	60'	3	TLC-LED-900	2.67 kW	B	
		70'	3	TLC-LED-1200	3.51 kW	B	
S4	70'	70'	3	TLC-LED-1500	4.29 kW	B	
		70'	4	TLC-LED-1200	4.68 kW	A	
S5	60'	70'	2	TLC-LED-900	1.78 kW	A	
		60'	4	TLC-LED-900	3.56 kW	B	
8			34		31.82 kW		

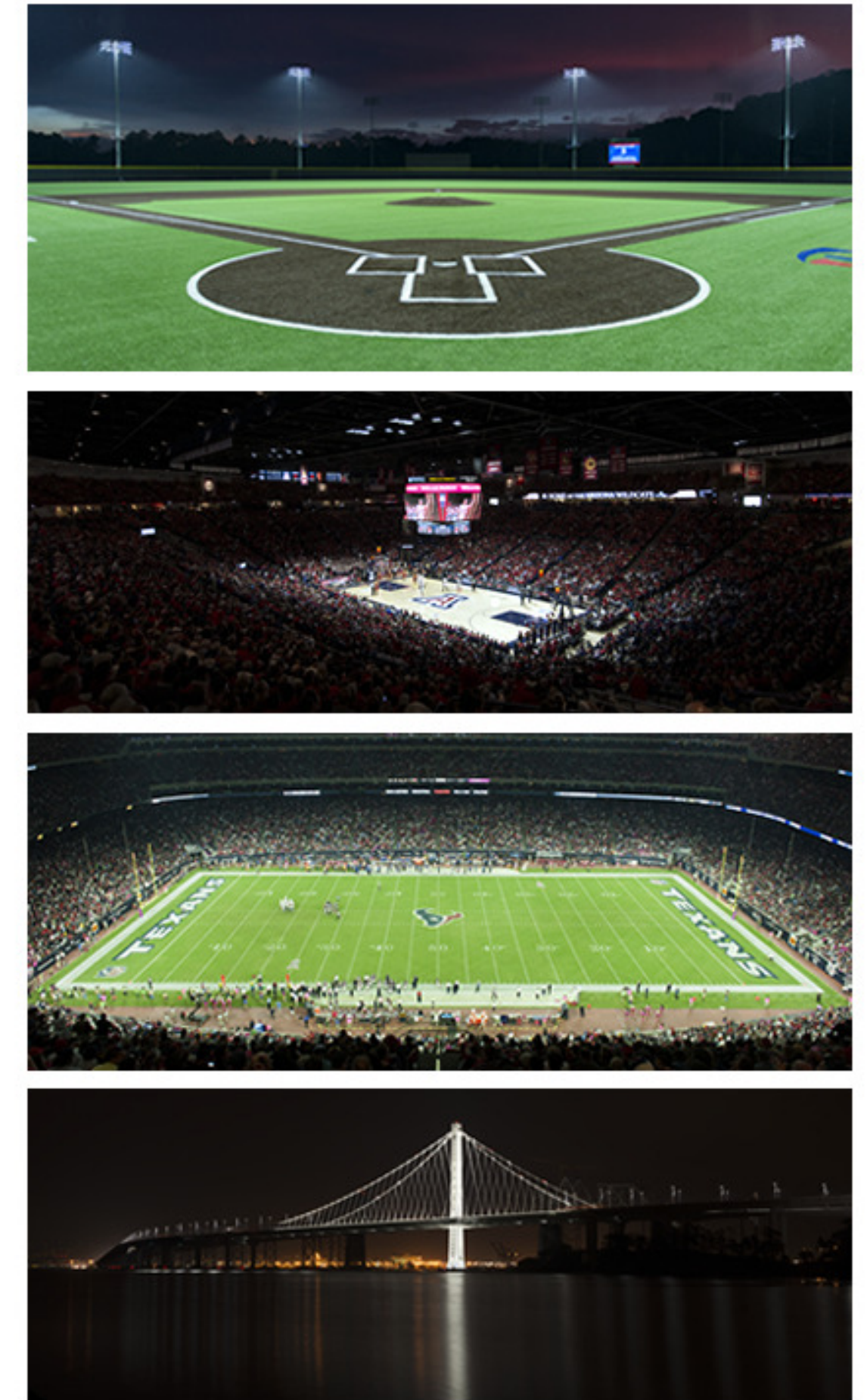
Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Soccer	10.88 kW	11
B	Soccer/Softball	15.78 kW	15
C	Baseball Infield	5.16 kW	8

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	16
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	3
TLC-LED-400	LED 5700K - 75 CRI	400W	46,500	>120,000	>120,000	>120,000	4
TLC-LED-600	LED 5700K - 75 CRI	580W	65,600	>120,000	>120,000	>120,000	2
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	9

Light Level Summary

Calculation Grid Summary									
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty	
		Ave	Min	Max	Max/Min	Ave/Min			
Basketball	Horizontal Illuminance	32.3	24.1	43.3	1.80	1.34	C	8	
Soccer	Horizontal Illuminance	32.8	22.3	40.6	1.82	1.47	A,B	26	
Softball (Infield)	Horizontal Illuminance	55.4	38.6	70.6	1.83	1.44	B,C	23	
Softball (Outfield)	Horizontal Illuminance	32.2	19.6	46.5	2.37	1.64	B,C	23	
Spill/Glare - Residential	Horizontal Illuminance	0.02	0	0.09	0.00		A,B,C,D	34	
Spill/Glare - Residential	Max Candela Metric	1074	0.66	7648	11590.66	1626.52	A,B,C,D	34	
Spill/Glare - Residential	Max Vertical Illuminance Metric	0.04	0	0.17	0.00		A,B,C,D	34	

From Hometown to Professional



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**ORTEGA PARK
PHOTOMETRICS PLAN SUMMARY**



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#1144-03-RC19
JULY 2020

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	S1	60'	-	60'	TLC-LED-600	1	1	0
				60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	3	3	0
1	S2	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-600	1	1	0
				60'	TLC-LED-900	3	3	0
1	S3	70'	-	70'	TLC-LED-1200	3	3	0
				70'	TLC-LED-1500	3	3	0
1	S4	70'	-	70'	TLC-LED-1200	4	4	0
				70'	TLC-LED-900	2	2	0
1	S5	60'	-	60'	TLC-LED-900	4	4	0
5	TOTALS					26	26	0

Ortega Park
Santa Barbara, CA

GRID SUMMARY	
Name:	Soccer
Size:	360' x 210'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	30
Scan Average:	32.8
Maximum:	40.6
Minimum:	22.3
Avg / Min:	1.47
Guaranteed Max / Min:	2
Max / Min:	1.82
UG (adjacent pts):	1.76
CU:	0.86
No. of Points:	84

LUMINAIRE INFORMATION	
Color / CRI:	5700K - 75 CRI
Luminaire Output:	89,600 / 160,000 / 65,600 / 136,000 lumens
No. of Luminaires:	26
Total Load:	26.66 kW

Luminaire Type	Lumen Maintenance		
	L90 hrs	L80 hrs	L70 hrs
TLC-LED-900	>120,000	>120,000	>120,000
TLC-LED-1500	>120,000	>120,000	>120,000
TLC-LED-600	>120,000	>120,000	>120,000
TLC-LED-1200	>120,000	>120,000	>120,000

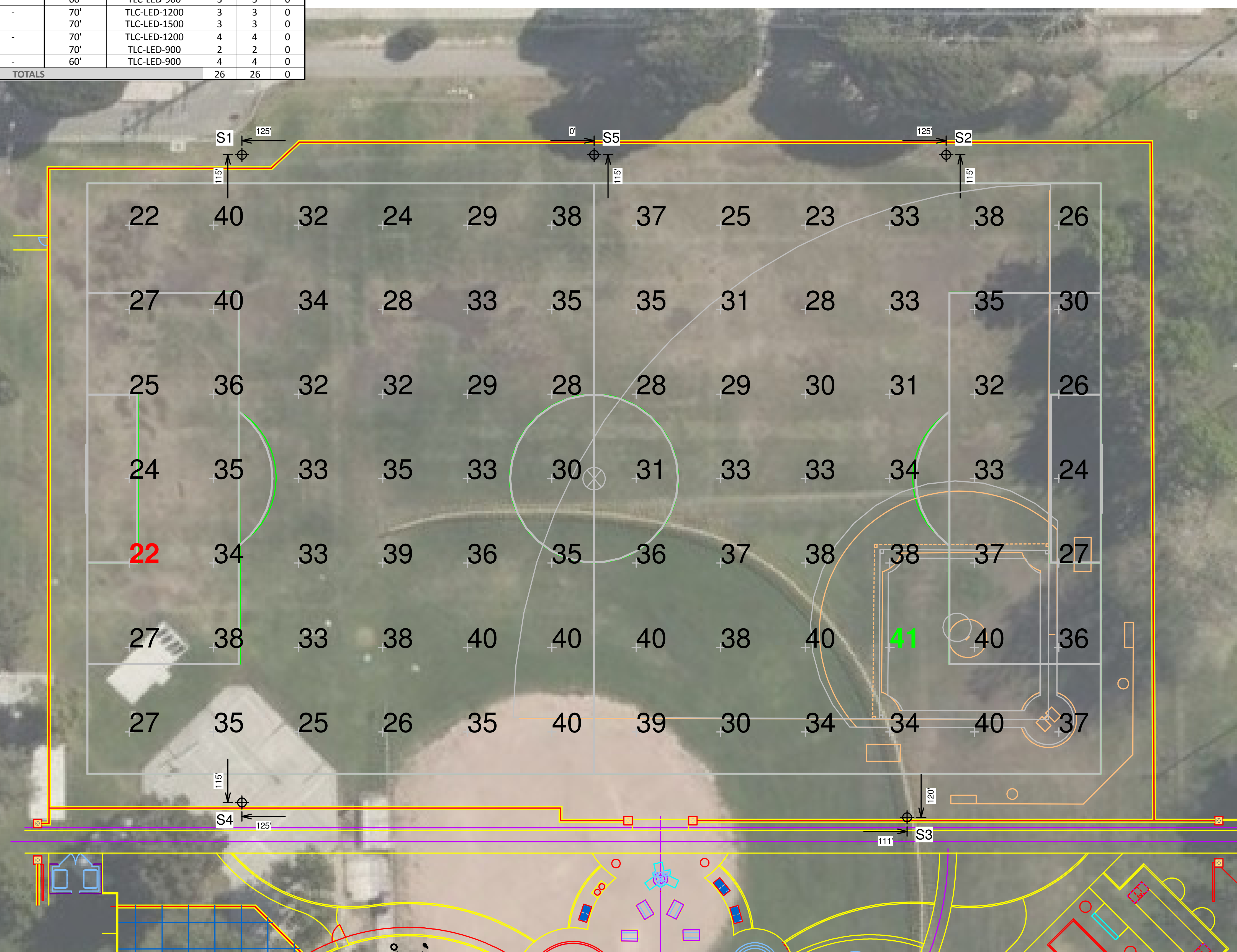
Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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ORTEGA PARK PHOTOMETRICS PLAN - FULL ATHLETIC FIELD ILLUMINATION SUMMARY



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#1144-03-RC19
JULY 2020

EQUIPMENT LIST FOR AREAS SHOWN

Pole		Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	70'	-	70'	TLC-LED-900	4	4	0
2	BB1, BB2	40'	-	40'	TLC-LED-400	2	2	0
1	S2	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-600	1	1	0
				60'	TLC-LED-900	3	3	0
1	S3	70'	-	70'	TLC-LED-1200	3	3	0
				70'	TLC-LED-1500	3	3	0
1	S5	60'	-	60'	TLC-LED-900	4	4	0
6	TOTALS					23	23	0



Pole location(s) + dimensions are relative to 0,0 reference point(s) ⊗

Ortega Park
Santa Barbara, CA

GRID SUMMARY

Name: Softball
 Size: 190'/190'/190' - basepath 60'
 Spacing: 20.0' x 20.0'
 Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	55.4	32.2
Maximum:	70.6	46.5
Minimum:	38.6	19.6
Avg / Min:	1.44	1.64
Guaranteed Max / Min:	2	2.5
Max / Min:	1.83	2.37
UG (adjacent pts):	1.36	1.49
CU:	0.59	
No. of Points:	25	61

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI
 Luminaire Output: 89,600 / 160,000 / 46,500 / 136,000 / 65,600
No. of Luminaires: 23
 Total Load: 20.94 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-900	>120,000	>120,000	>120,000
TLC-LED-1500	>120,000	>120,000	>120,000
TLC-LED-400	>120,000	>120,000	>120,000
TLC-LED-1200	>120,000	>120,000	>120,000
TLC-LED-600	>120,000	>120,000	>120,000

Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.9% dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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ORTEGA PARK
PHOTOMETRICS PLAN - BASEBALL FIELD ILLUMINATION SUMMARY

#1144-03-RC19
JULY 2020

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	70'	-	70'	TLC-LED-900	4	4	0
2	BB1, BB2	40'	-	40'	TLC-LED-400	2	2	0
3	TOTALS					8	8	0

GRID SUMMARY	
Name:	Basketball
Size:	74' x 42'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL FOOTCANDLES			
Entire Grid			
Guaranteed Average:	30		
Scan Average:	32.3		
Maximum:	43.3		
Minimum:	24.1		
Avg / Min:	1.34		
Guaranteed Max / Min:	2		
Max / Min:	1.80		
UG (adjacent pts):	1.56		
CU:	0.23		
No. of Points:	40		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	89,600 / 46,500 lumens		
No. of Luminaires:	8		
Total Load:	5.16 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-900	>120,000	>120,000	>120,000
TLC-LED-400	>120,000	>120,000	>120,000
Reported per TM-21-11. See luminaire datasheet for details.			



Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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ORTEGA PARK PHOTOMETRICS PLAN - BASKETBALL COURT ILLUMINATION SUMMARY



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#1144-03-RC19
JULY 2020

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	A1	70'	-	70'	TLC-LED-900	4	4	0
2	BB1, BB2	40'	-	40'	TLC-LED-400	2	2	0
1	S1	60'	-	60'	TLC-LED-600	1	1	0
				60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	3	3	0
1	S2	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-600	1	1	0
				60'	TLC-LED-900	3	3	0
1	S3	70'	-	70'	TLC-LED-1200	3	3	0
				70'	TLC-LED-1500	3	3	0
1	S4	70'	-	70'	TLC-LED-1200	4	4	0
				70'	TLC-LED-900	2	2	0
1	S5	60'	-	60'	TLC-LED-900	4	4	0
8	TOTALS					34	34	0



Ortega Park
Santa Barbara, CA

GRID SUMMARY	
Name:	Spill/Glare - Residential
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY			
HORIZONTAL FOOTCANDLES			
Scan Average:	Entire Grid 0.017		
Maximum:	0.089		
Minimum:	0.000		
No. of Points:	76		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	89,600 / 160,000 / 46,500 / 65,600 / 136,000		
No. of Luminaires:	34		
Total Load:	31.82 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-900	>120,000	>120,000	>120,000
TLC-LED-1500	>120,000	>120,000	>120,000
TLC-LED-400	>120,000	>120,000	>120,000
TLC-LED-600	>120,000	>120,000	>120,000
TLC-LED-1200	>120,000	>120,000	>120,000

Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

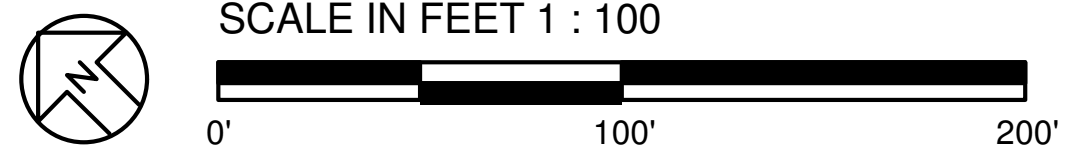
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

THIS SHEET PROVIDES AN ANALYSIS OF LIGHT EMISSION AND SPILLOVER ILLUMINANCE LEVELS FOR THE PROPOSED LIGHTING SYSTEM MEASURED IN HORIZONTAL FOOTCANDLES.

These calculations demonstrate that where adjacent to residential uses, such as Ortega Street, illuminance does not exceed the maximum 0.1 footcandle per Lighting Design Guidelines. In areas adjacent to commercial uses, such as Salsipuedes Street, illuminance does not exceed 0.2 footcandle at 10' beyond the property line. **The illumination levels provided in the current design are compatible with the adjacent residential use and light trespass/glare levels are below the maximum allowable output.**



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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ORTEGA PARK PHOTOMETRICS PLAN - FULL SITE ILLUMINATION SUMMARY (LIGHT TRESPASS)

#1144-03-RC19
JULY 2020

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	A1	70'	-	70'	TLC-LED-900	4	4	0
2	BB1, BB2	40'	-	40'	TLC-LED-400	2	2	0
1	S1	60'	-	60'	TLC-LED-600	1	1	0
				60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	3	3	0
1	S2	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-600	1	1	0
				60'	TLC-LED-900	3	3	0
1	S3	70'	-	70'	TLC-LED-1200	3	3	0
				70'	TLC-LED-1500	3	3	0
1	S4	70'	-	70'	TLC-LED-1200	4	4	0
				70'	TLC-LED-900	2	2	0
1	S5	60'	-	60'	TLC-LED-900	4	4	0
8	TOTALS					34	34	0

Ortega Park
Santa Barbara, CA

GRID SUMMARY	
Name:	Spill/Glare - Residential
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Scan Average:	Entire Grid 0.038
Maximum:	0.167
Minimum:	0.000
No. of Points:	76

LUMINAIRE INFORMATION	
Color / CRI:	5700K - 75 CRI
Luminaire Output:	89,600 / 160,000 / 46,500 / 65,600 / 136,000
No. of Luminaires:	34
Total Load:	31.82 kW

Luminaire Type	Lumen Maintenance		
	L90 hrs	L80 hrs	L70 hrs
TLC-LED-900	>120,000	>120,000	>120,000
TLC-LED-1500	>120,000	>120,000	>120,000
TLC-LED-400	>120,000	>120,000	>120,000
TLC-LED-600	>120,000	>120,000	>120,000
TLC-LED-1200	>120,000	>120,000	>120,000

Reported per TM-21-11. See luminaire datasheet for details.

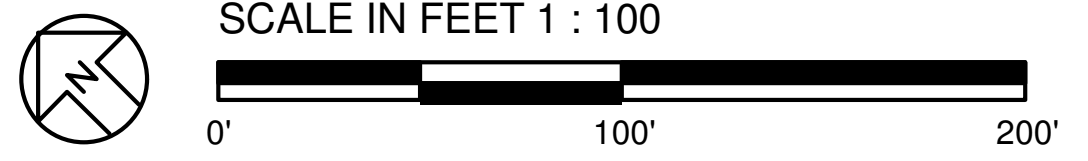
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

THIS SHEET PROVIDES AN ANALYSIS OF LIGHT EMISSION AND SPILLOVER ILLUMINANCE LEVELS FOR THE PROPOSED LIGHTING SYSTEM MEASURED IN MAXIMUM VERTICAL FOOTCANDLES, OR THE AMOUNT OF LIGHT CAST UPON A VERTICAL SURFACE.



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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ORTEGA PARK PHOTOMETRICS PLAN - FULL SITE ILLUMINATION SUMMARY (LIGHT TRESPASS)

#1144-03-RC19
JULY 2020

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	A1	70'	-	70'	TLC-LED-900	4	4	0
2	BB1, BB2	40'	-	40'	TLC-LED-400	2	2	0
1	S1	60'	-	60'	TLC-LED-600	1	1	0
				60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	3	3	0
1	S2	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-600	1	1	0
				60'	TLC-LED-900	3	3	0
1	S3	70'	-	70'	TLC-LED-1200	3	3	0
				70'	TLC-LED-1500	3	3	0
1	S4	70'	-	70'	TLC-LED-1200	4	4	0
				70'	TLC-LED-900	2	2	0
1	S5	60'	-	60'	TLC-LED-900	4	4	0
8	TOTALS					34	34	0



GRID SUMMARY	
Name:	Spill/Glare - Residential
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY			
CANDELA (PER FIXTURE)			
Scan Average:	Entire Grid 1073.502		
Maximum:	7648.167		
Minimum:	0.660		
No. of Points:	76		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	89,600 / 160,000 / 46,500 / 65,600 / 136,000		
No. of Luminaires:	34		
Total Load:	31.82 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-900	>120,000	>120,000	>120,000
TLC-LED-1500	>120,000	>120,000	>120,000
TLC-LED-400	>120,000	>120,000	>120,000
TLC-LED-600	>120,000	>120,000	>120,000
TLC-LED-1200	>120,000	>120,000	>120,000

Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

THIS SHEET PROVIDES AN ANALYSIS OF LIGHT INTENSITY & LUMINANCE LEVELS FOR THE PROPOSED LIGHTING SYSTEM MEASURED IN CANDELAS, OR THE INTENSITY OF LUMINATION PRODUCED IN A PARTICULAR DIRECTION THAT RESULTS IN GLARE.



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SCALE IN FEET 1 : 100
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ORTEGA PARK PHOTOMETRICS PLAN - SITE ILLUMINATION SUMMARY (GLARE)

#1144-03-RC19
JULY 2020

EQUIPMENT LAYOUT

INCLUDES:

- Basketball
- Soccer
- Softball

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

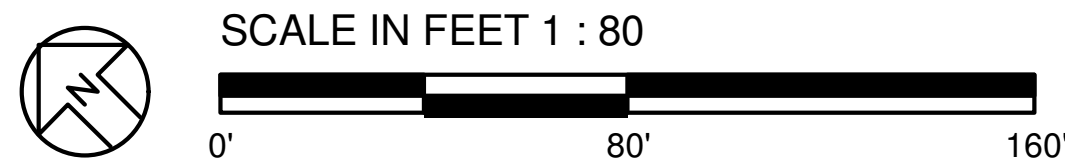
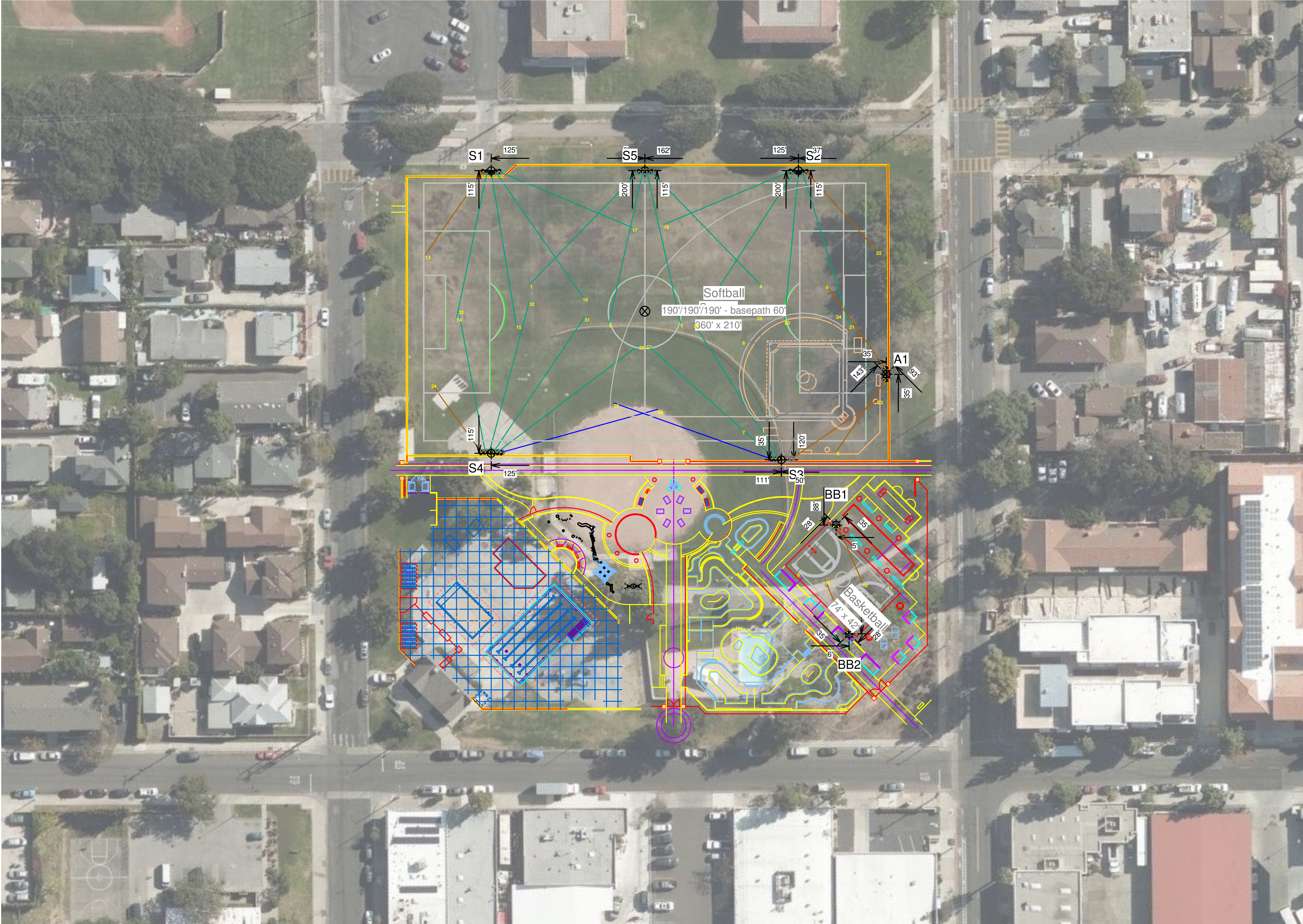
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	Pole CLASS	GRADE ELEVATION	MOUNTING HEIGHT	Luminaires		QTY / POLE
					LUMINAIRE TYPE		
1	A1	LSS70C	-	70'	TLC-LED-900		4
2	BB1, BB2	LSS40A	-	40'	TLC-LED-400		2
1	S1	LSS60B	-	60'	TLC-LED-600		1
				60'	TLC-LED-1200		1
				60'	TLC-LED-900		3
1	S2	LSS60B	-	60'	TLC-LED-1200		1
				60'	TLC-LED-600		3
				60'	TLC-LED-900		3
1	S3	LSS70C	-	70'	TLC-LED-1200		3
				70'	TLC-LED-1500		3
1	S4	LSS70C	-	70'	TLC-LED-1200		4
				70'	TLC-LED-900		4
1	S5	LSS60B	-	60'	TLC-LED-900		4
8	TOTALS						34

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-900	5.3	5.0	4.6	4.0	3.2	2.9	2.3
TLC-LED-1500	8.5	8.1	7.4	6.4	5.1	4.7	3.7
TLC-LED-400	2.3	2.2	2.0	1.7	1.4	1.3	1.0
TLC-LED-600	3.4	3.2	3.0	2.6	2.0	1.9	1.5
TLC-LED-1200	7.0	6.6	6.1	5.2	4.2	4.0	3.0



ENGINEERED DESIGN By: • File #201823B • 30-Apr-20



**ORTEGA PARK
PHOTOMETRICS PLAN - EQUIPMENT LAYOUT**

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

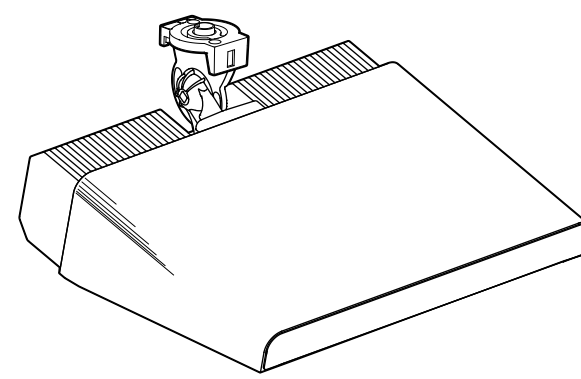


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#1144-03-RC19
JULY 2020



Datasheet: **TLC-LED-1200 Luminaire and Driver**



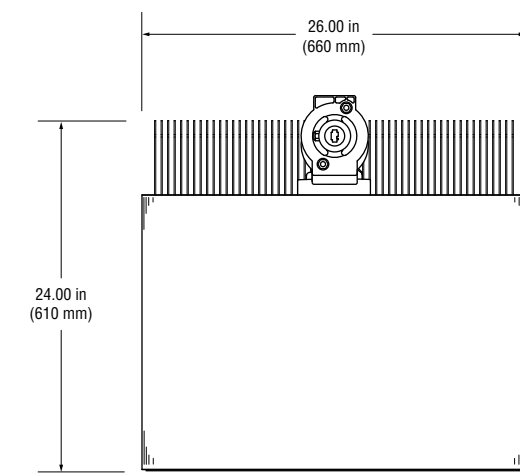
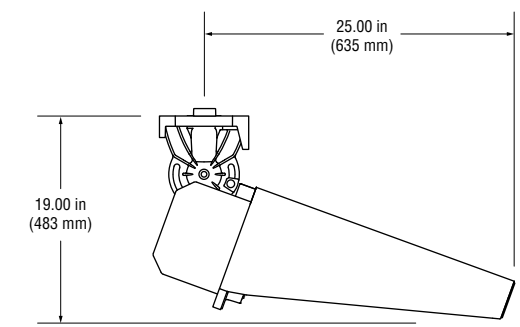
Luminaire Data

Weight (luminaire)	45 lb (20 kg)
UL listing number	E338094
UL listed for USA / Canada	UL1598 CSA-C22.2 No.250.0
CE Declaration	LVD, EMC, RoHS
Ingress protection, luminaire	IP65
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL IEC ambient temperature rating, luminaire	50°C (122°F)

Photometric Characteristics

Projected lumen maintenance per IES TM-21-11

L90 (20k)	>120,000 h
L80 (20k)	>120,000 h
L70 (20k)	>120,000 h
Lumens ¹	136,000
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min



Footnotes:
1) Incorporates appropriate dirt depreciation factor for life of luminaire.

Datasheet: **TLC-LED-1200 Luminaire and Driver**

Driver Data

Typical Wiring

Electrical Data

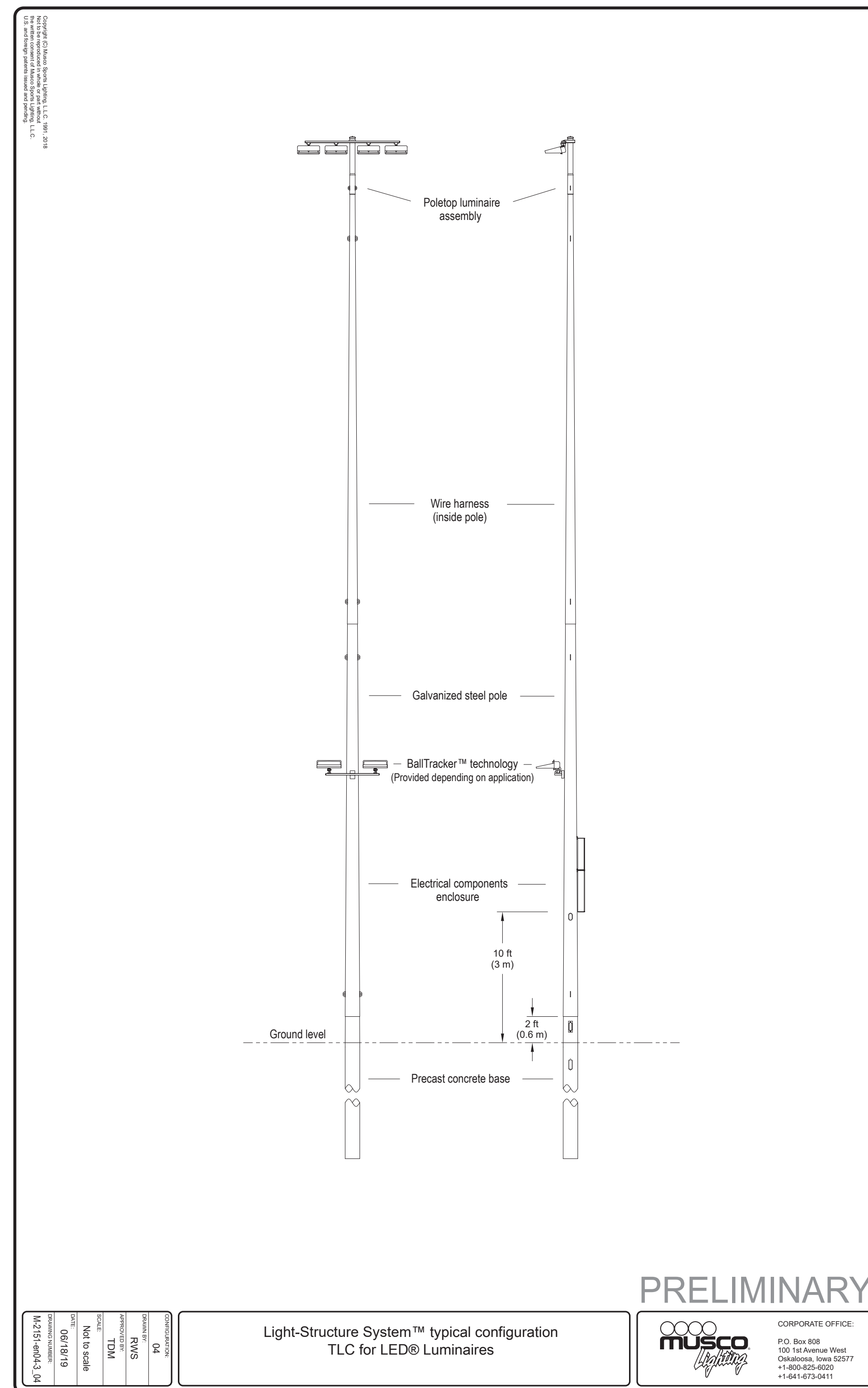
Rated wattage ¹	1170 W
Per driver	1170 W
Per luminaire	1170 W
Number of luminaires per driver	1
Starting (inrush) current	<40 A, 256 μs
Fuse rating	15 A
UL, IEC ambient temperature rating, electrical components enclosure	50°C (122°F)
Ingress protection, electrical components enclosure	IP54
Efficiency	95%
Dimming mode	optional
Range, energy consumption	14 – 100%
Range, light output	19 – 100%

	208 Vac 50/60 Hz	208 Vac 60 Hz	220 Vac 50/60 Hz	230 Vac 50 Hz	240 Vac 50/60 Hz	277 Vac 60 Hz	347 Vac 60 Hz	380 Vac 50/60 Hz	400 Vac 50 Hz	415 Vac 50 Hz	480 Vac 60 Hz
Max operating current per luminaire ²	7.26 A	6.98 A	6.60 A	6.31 A	6.05 A	5.24 A	4.18 A	3.82 A	3.63 A	3.50 A	3.03 A

* If L2 (com) is neutral then not switched or fused.
† Not present if indoor installation.

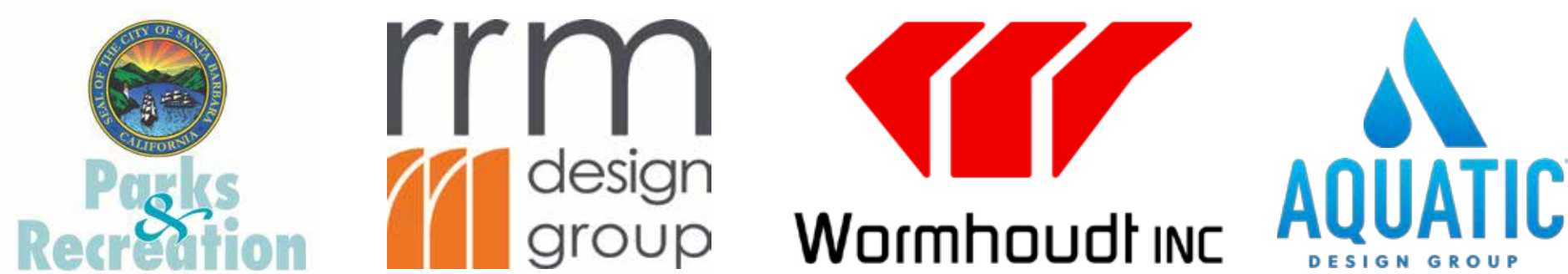
Footnotes:
1) Rated wattage is the power consumption, including driver efficiency losses, at stabilized operation in 25°C ambient temperature environment.
2) Operating current includes allowance for 0.90 minimum power factor, operating temperature, and LED light source manufacturing tolerances.

Notes
1. Use thermal magnetic HID-rated or D-curve circuit breakers.
2. See Musco Control System Summary for circuit information.



POLE LIGHT CONFIGURATION, TLC FOR LED LUMINAIRE, TYP.

STANDARD FIXTURE FOR TLC FOR LED LUMINAIRE, TYP.

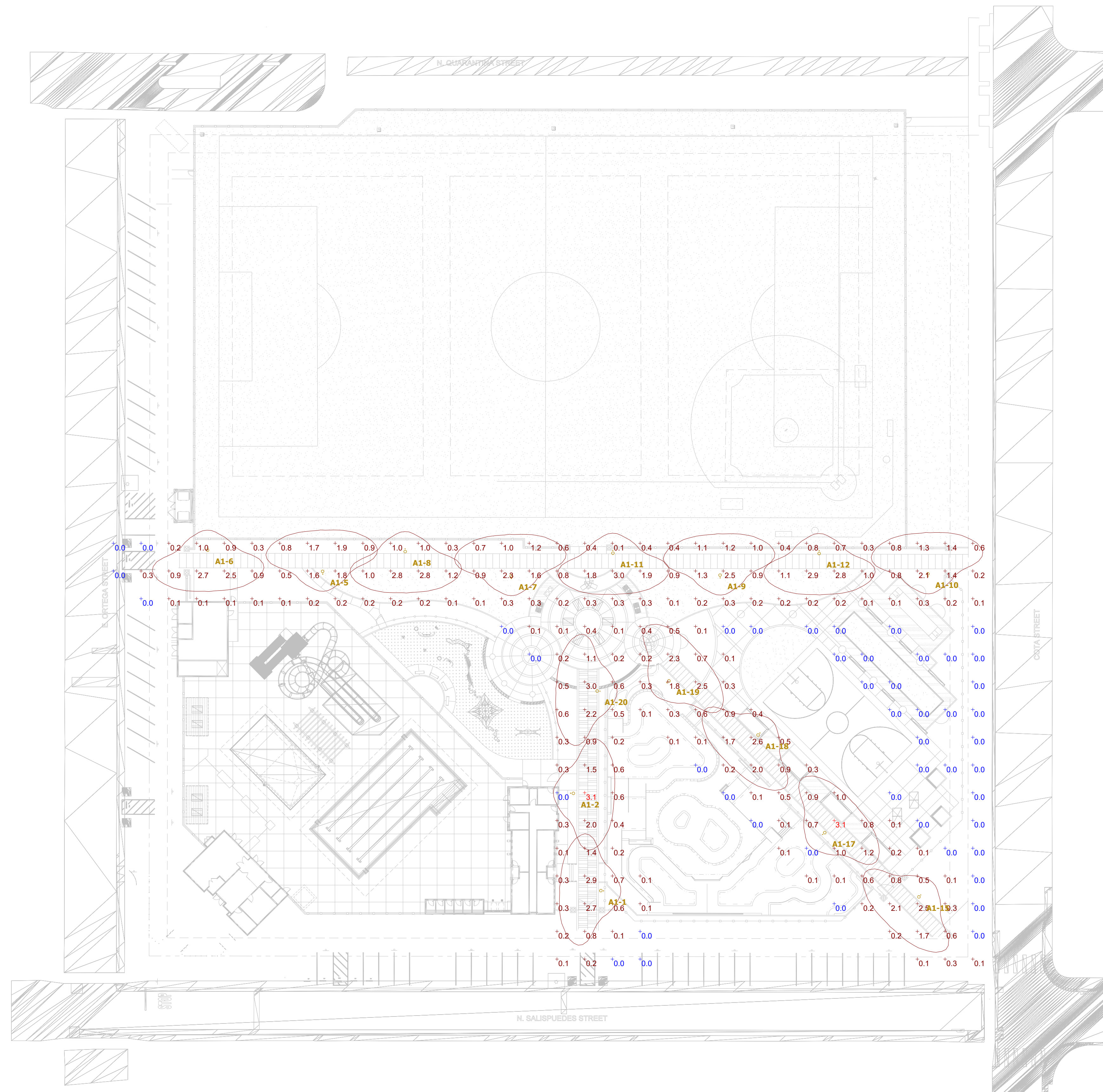


**ORTEGA PARK
PHOTOMETRICS PLAN - EQUIPMENT IMAGES AND SPECIFICATIONS**

Schedule			Number Lamps	Lumens per Lamp	Lumen Multiplier	LLF	Wattage
Symbol	Label	QTY	1	2491	1	0.95	24.16
	A1	15					

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
SITE LIGHTING	+	0.6 fc	3.1 fc	0.0 fc	N/A	N/A

Luminaire Locations										
No.	Label	Location					Aim			
		X	Y	Z	MH	Orientation	Tilt	X	Y	Z
1	A1	512.83	141.34	14.00	14.00	273.50	0.00	511.33	141.43	0.00
2	A1	494.97	194.17	14.00	14.00	93.14	0.00	496.46	194.09	0.00
5	A1	360.84	312.69	14.00	14.00	357.26	0.00	360.77	314.19	0.00
6	A1	298.51	327.17	14.00	14.00	178.29	0.00	298.56	325.67	0.00
7	A1	462.89	310.34	14.00	14.00	357.26	0.00	462.82	311.84	0.00
8	A1	405.42	326.38	14.00	14.00	178.29	0.00	405.47	324.88	0.00
9	A1	575.87	310.65	14.00	14.00	357.26	0.00	575.80	312.15	0.00
10	A1	688.35	311.33	14.00	14.00	357.26	0.00	688.28	312.83	0.00
11	A1	517.82	325.51	14.00	14.00	178.29	0.00	517.86	324.01	0.00
12	A1	629.42	325.34	14.00	14.00	179.23	0.00	629.44	323.84	0.00
15	A1	684.44	139.13	14.00	14.00	223.81	0.00	683.40	138.04	0.00
17	A1	631.34	171.83	14.00	14.00	48.76	0.00	632.47	172.82	0.00
18	A1	597.41	226.74	14.00	14.00	223.81	0.00	596.37	225.66	0.00
19	A1	547.02	253.93	14.00	14.00	48.76	0.00	548.15	254.92	0.00
20	A1	510.83	249.34	14.00	14.00	273.50	0.00	509.33	249.43	0.00



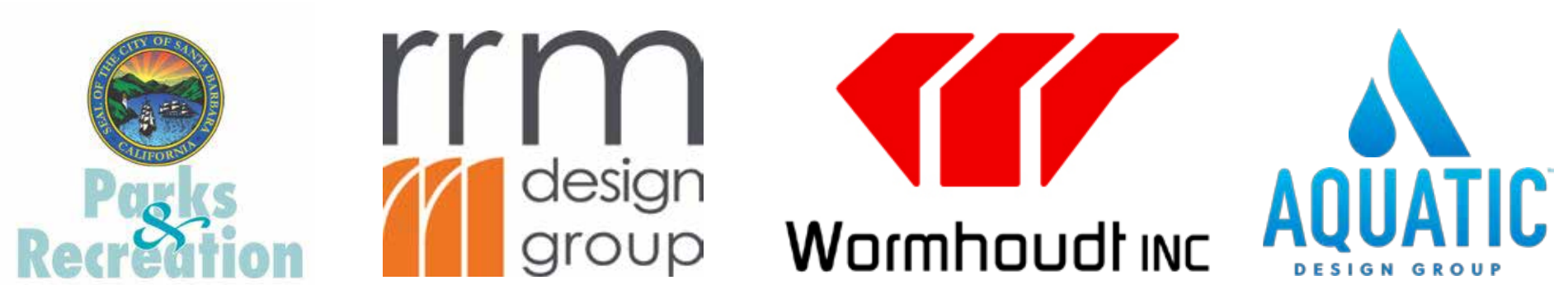
Plan View



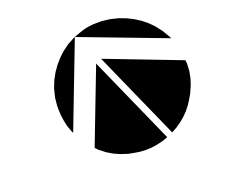
ORTEGA PARK
SITE LIGHTING
SANTA BARBARA, CA



Designer
Michael Blackmon
805-937-8676
Date
XX/XX/2018
Scale
Not to Scale
Drawing No.
Summary

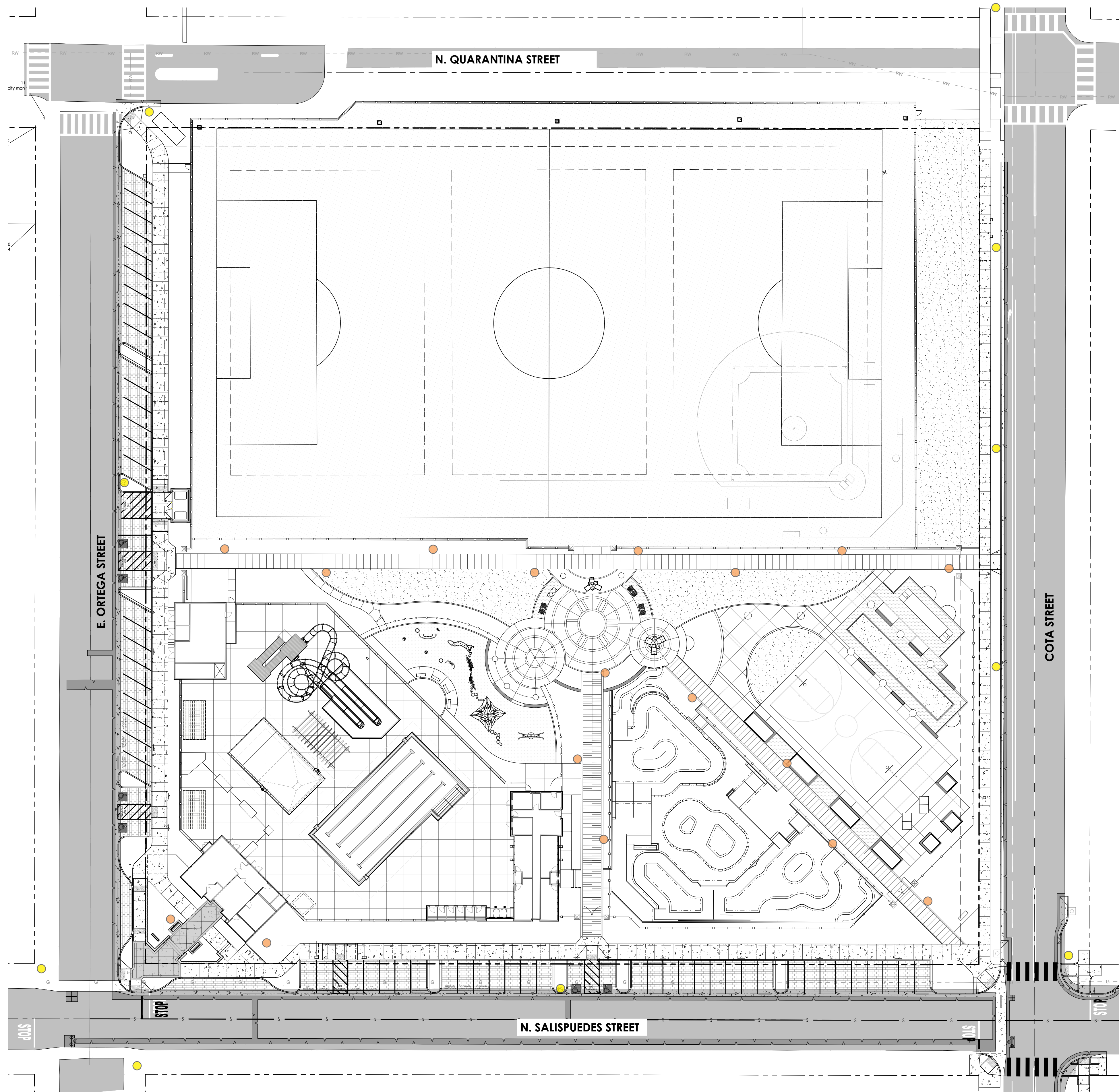


ORTEGA PARK PHOTOMETRICS PLAN - PEDESTRIAN POLE LIGHTING



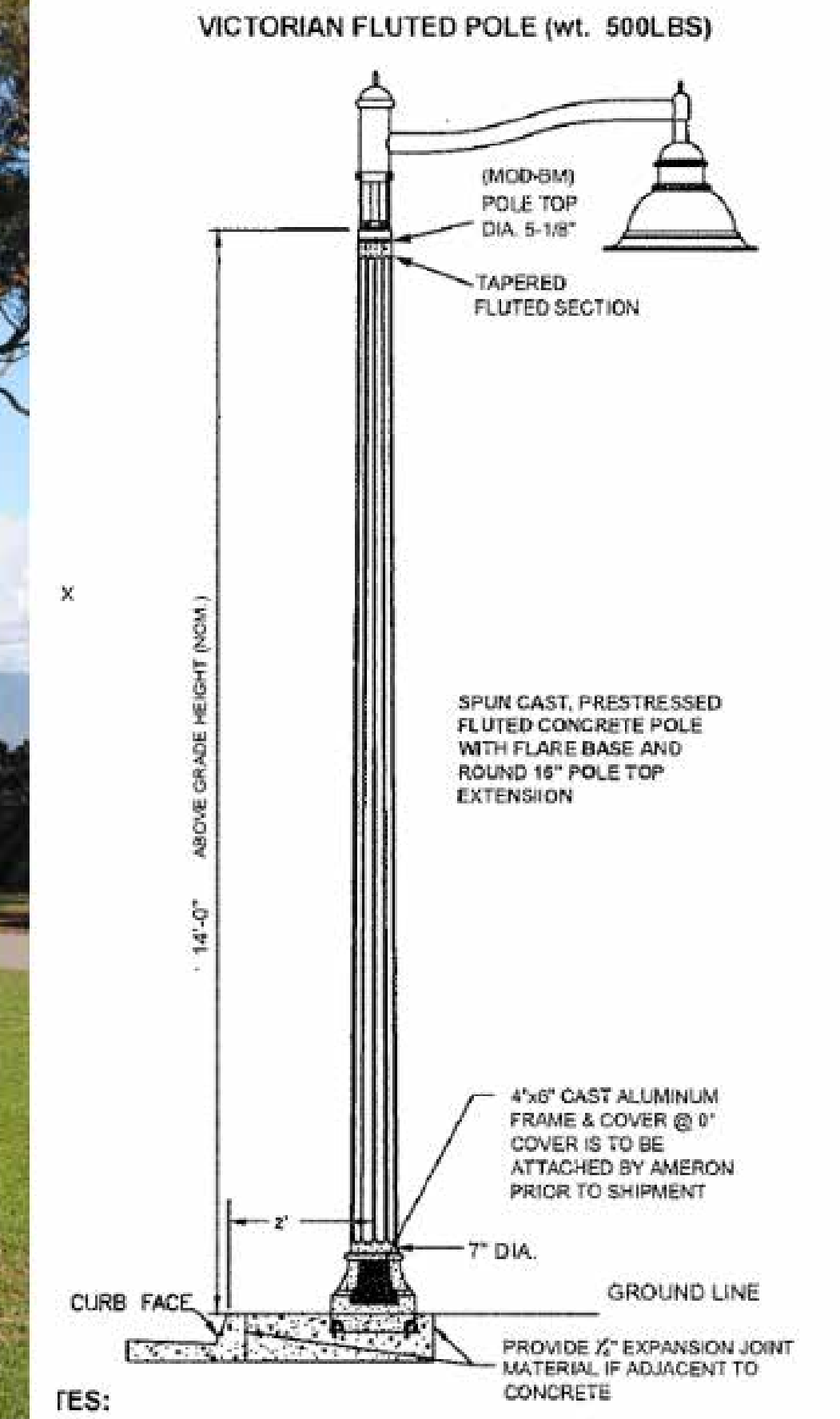
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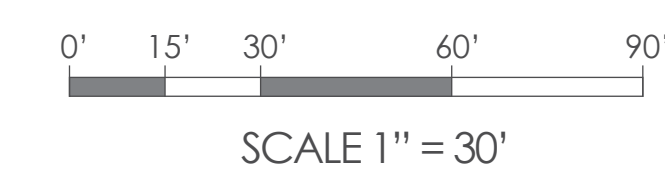
PEDESTRIAN POLE LIGHT, TYP.

FIXTURE PER CITY OF SANTA BARBARA STANDARD,
SEE NEXT SHEET FOR SPECIFICATIONS.

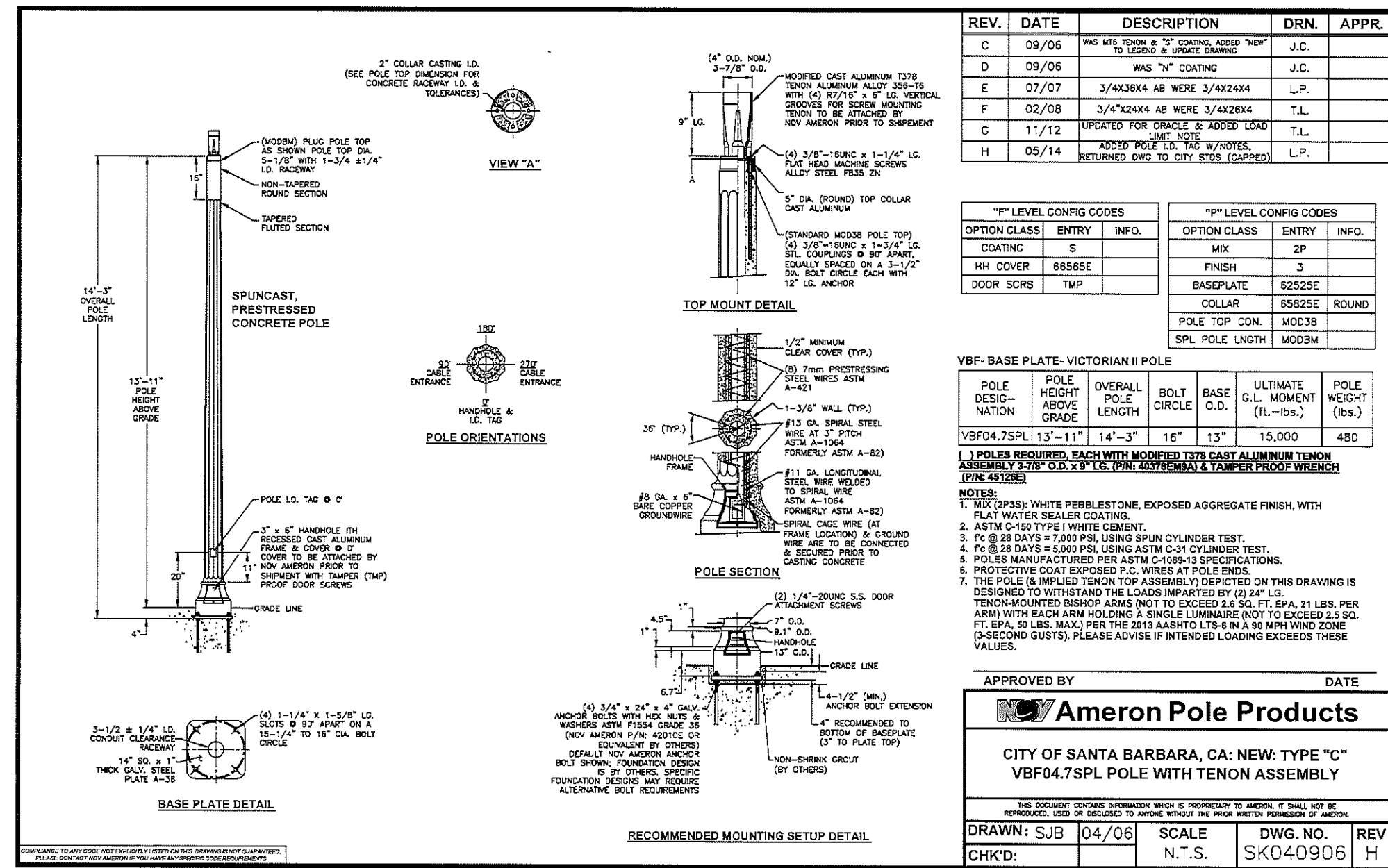


LEGEND

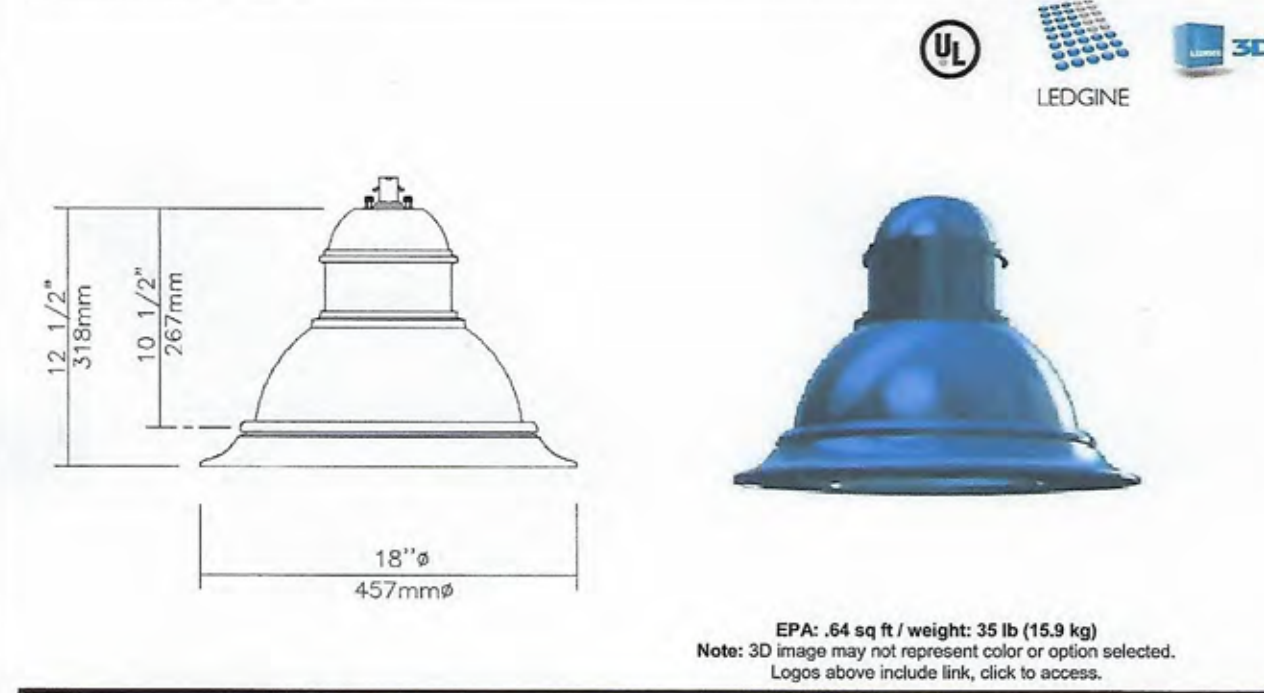
- PEDESTRIAN / SECURITY LIGHT LOCATIONS
 - POLE LIGHT LOCATIONS (INCLUDES EXISTING & PROPOSED)
- SEE P1-P9 FOR SPORTS POLE LIGHTING LOCATIONS & SPECIFICATIONS



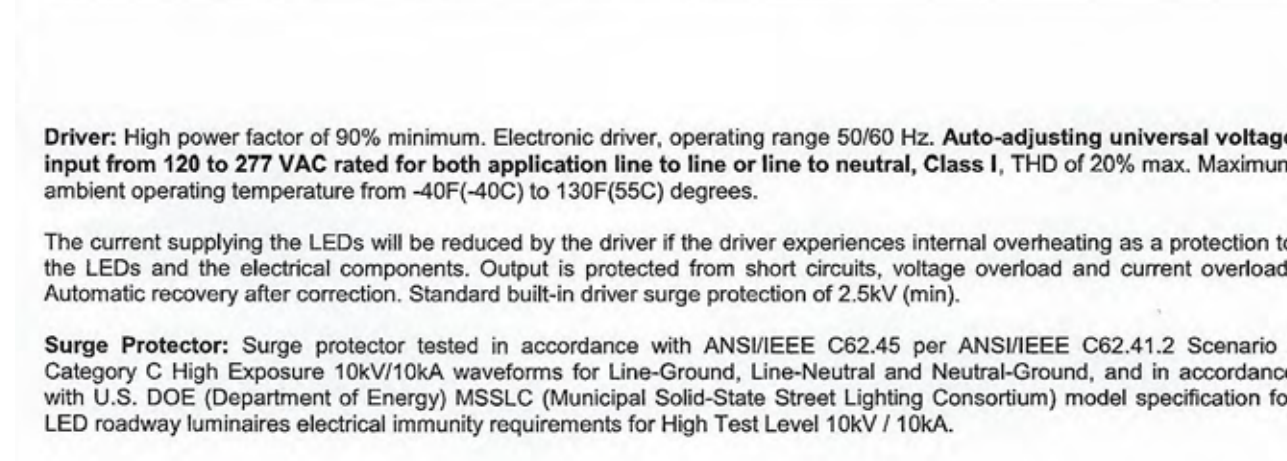
SPECIFICATIONS PER CITY OF SANTA BARBARA STANDARD



Santa Barbara City of (4957)



Santa Barbara City of (4957)



Santa Barbara City of (4957)

Miscellaneous

Description of Components:

Hardware: All exposed screws shall be complete with Ceramic primer-seal basecoat to reduce seizing of the parts and offers a high resistance to corrosion. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

Finish: (SCZT311G151TX) Special Color ZT311G151, textured Protec 2 Series Textured Color Magala Green. In accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with ± 1 mils/24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard.

The surface treatment achieves a minimum of 2000 hours of salt spray resistant finish in accordance with testing performed and per ASTM B117 standard.

Note: IMPORTANT: The pole manufacturer must make sure that the pole tenon is strong enough to support the assembly.

LED products manufacturing standard: The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with IEC61340-5-1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

Quality Control: The manufacturer must provide a written confirmation of its ISO 9001-2008 and ISO 14001-2004 International Quality Standards Certification.

Certification: The manufacturer will have to supply a copy of approval products certificate, CSA or UL.

LED light engine technical information for DOS										
LED = Philips Lumileds Luxeon T, CRI = 70, CCT = 4000K (+/- 350K)										
System (LED + driver) rated life = 100,000 hrs ¹										
110 Module	Typical delivered lumens	Typical system wattage (W)	Typical current @ 120V (A)	Typical current @ 277V (A)	Typical current @ 300V (A)	Typical current @ 320V (A)	LED current (mA)	LED Replacement ²	Luminaire Efficiency Rating (lm/W)	BiC Rating
24W16LED4K-T-LE2F	2590	29	0.25	0.15	0.13	0.12	530	70-100	90.6	B1-U0-G1
24W16LED4K-T-LE2F	2487	29	0.25	0.15	0.13	0.12	530	70-100	86.8	B1-U0-G0
24W16LED4K-T-LE4F	2431	29	0.25	0.15	0.13	0.12	530	70-100	84.8	B1-U0-G1
24W16LED4K-T-LE5F	2333	29	0.25	0.15	0.13	0.12	530	70-100	81.4	B2-U0-G0
30W16LED4K-T-LE2F	3227	35	0.32	0.19	0.17	0.15	700	70-100	87.0	B1-U0-G1
30W16LED4K-T-LE3F	3129	38	0.32	0.19	0.17	0.15	700	70-100	83.3	B1-U0-G1
30W16LED4K-T-LE4F	3029	38	0.32	0.19	0.17	0.15	700	70-100	81.4	B1-U0-G1
30W16LED4K-T-LE5F	2903	38	0.32	0.19	0.17	0.15	700	70-100	77.5	B2-U0-G1
35W32LED4K-T-LE2F	3550	36	0.31	0.19	0.17	0.16	350	70-100	99.3	B1-U0-G1
35W32LED4K-T-LE3F	3400	36	0.31	0.19	0.17	0.16	350	70-100	95.1	B1-U0-G1
35W32LED4K-T-LE4F	3324	38	0.31	0.19	0.17	0.16	350	70-100	93.0	B1-U0-G1
35W32LED4K-T-LE5F	3155	38	0.31	0.19	0.17	0.16	350	70-100	88.2	B2-U0-G1
50W32LED4K-T-LE2F	5148	53	0.47	0.27	0.24	0.22	530	100-150	86.4	B1-U0-G1
50W32LED4K-T-LE3F	4922	54	0.47	0.27	0.24	0.22	530	100-150	80.8	B1-U0-G1
50W32LED4K-T-LE4F	4822	54	0.47	0.27	0.24	0.22	530	100-150	80.8	B1-U0-G1
50W32LED4K-T-LE5F	4576	54	0.5	0.3	0.2	0.2	530.0	100-150	84.9	B1-U0-G1

¹ L70 = 100,000 hrs (at ambient temperature + 25°C).

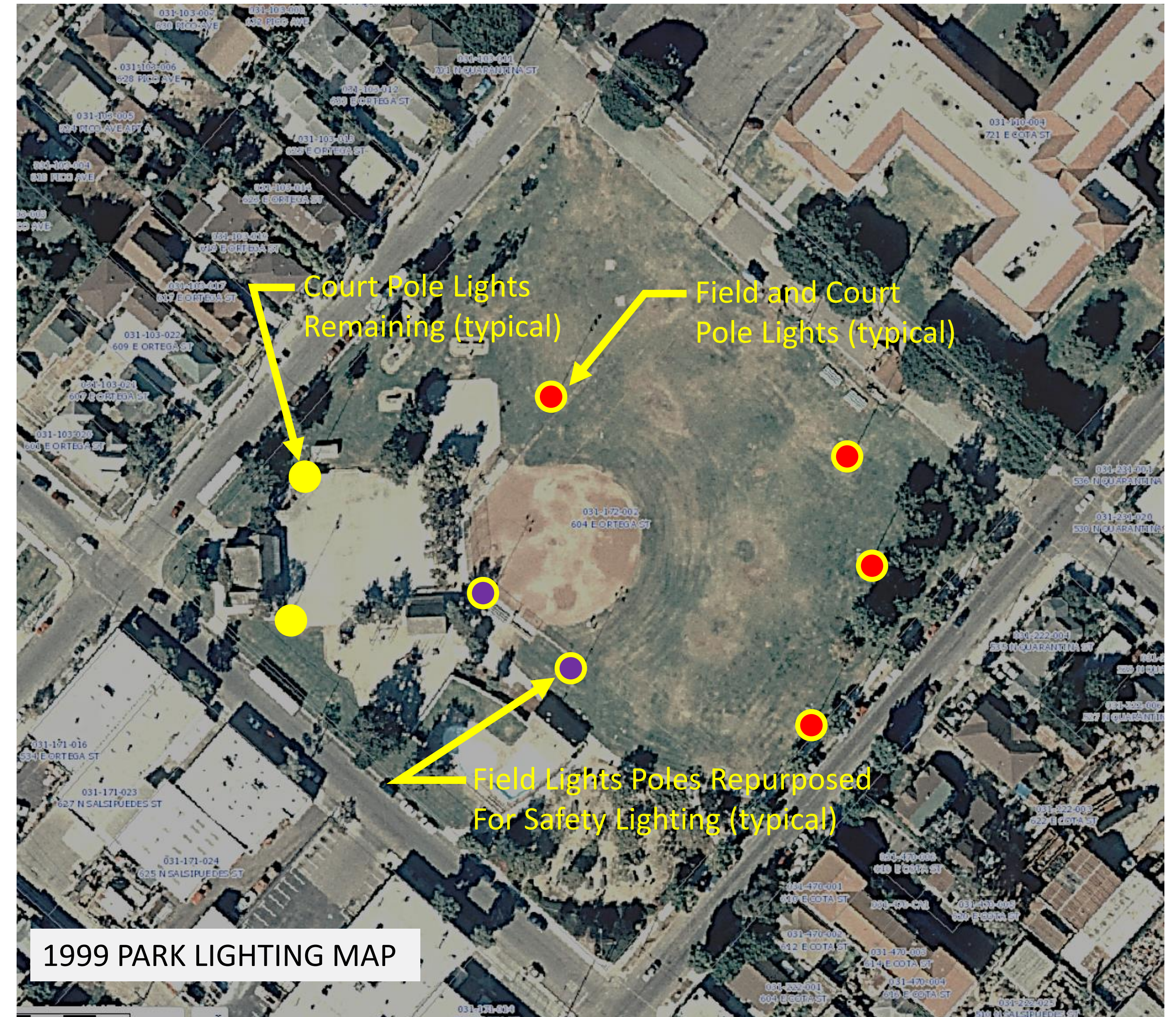
² System wattage or total luminaire wattage includes the LED module and the LED driver.

³ Note: These guidelines show typical replacements for the LED wattage ranges shown. Replacements should always be confirmed with a photometric layout.

Note: Due to rapid and continuous advances in LED technology, LED luminaire data is subject to change without notice and as the direction of Philips.



Aerial image provided for reference.



Note: Image shows existing and removed park light locations. Field and court lights shown in red were removed in 2004 due to deferred maintenance issue.