phase II bid documents for:

THE PARK AT RISPIN MANSION

CITY OF CAPITOLA
WHARF ROAD AND CLARES STREET
February 22, 2023

vicinity map



project area



Clares Street and Wharf Road

project contact information

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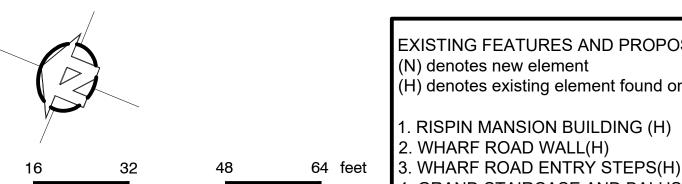


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Electrical Details

E4.0



(H) denotes existing element found on site

- . RISPIN MANSION BUILDING (H)
- 4. GRAND STAIRCASE AND BALUSTRADE (H)
- 5. FOUNTAIN AND REFLECTION POOL (H)
- 6. PLANTS AND LANDSCAPE (N) '. SUNDIAL (H) AND SCULPTURE GARDEN (N)
- 8. UNIVERSAL ACCESS PATH OF TRAVEL (N)
- 9. FENCING AND GATES (N)
- 10. SIGNAGE (N)
- 11. IMPROVE STRIPING AND CROSSWALKS AT CLARES/WHARF
- ROAD INTERSECTION (N)
- 12. MURAL ON CONCRETE WALL OF SAINT CLARES BUILDING(N) 13. INFORMAL SERVICE DRIVE/PEDESTRIAN PATH FROM MANSION
- TERRACE TO SOUTH ENTRANCE AT WHARF ROAD (H)
- 14. BOCCE BALL COURT (N)
- 15. AMPHITHEATER (N) 16. ARBOR (H)

The project goals for Rispin Park are to create a community park that provides passive recreation and focuses on the cultural, historical, and open space resources that are unique to the Rispin Mansion Site. The intent of the restoration is to provide examples of the architectural style of the mansion and to create a public awareness of the significance of the Mansion building and grounds as part of the history of the City of Capitola. It should be stated that the park is not intended to be an exact replication of the mansion grounds during the time it was the residence of Henry Rispin. A summary of the existing historic elements and the proposed modifications are explained below and noted on the Site Plan.

Wharf Road Wall, Entry Arch and Entry Staircase:

- Portions of the Existing wall along Wharf Road will remain unchanged, while some sections of the existing wall height will be reduced to 30" with a 30" decorative metal fence on top. One portion of the wall at the southern end of the road frontage will be removed to allow a new universally accessible entrance to the park. The section to be removed will incorporate a new column to match the existing last column at the southern terminus of the wall. Bollards and metal fencing will be added to the new park entrance.
- Steps and side walls of the staircase at the entry will be rebuilt and repaired. The Arch and side walls will be painted to match the Mansion.

• Existing wood gate to be removed and stored for display with other artifacts

- New columns will match historic columns found on site in height and architectural detail.
- Spacing of columns and location will be changed to accommodate new universally accessible path, and mature oaks

• New vine species compatible with native oaks will be selected.

• Existing sundial base will remain in its present location. Pedestal will be rebuilt according to archive photographs. New, contemporary sundial/compass will be chosen, no archive photos are available that show the sundial piece.

- Existing overlook columns and base wall to remain. All caps and balustrades to be rebuilt according to archive photographs and existing artifacts on-site.
- New benches in same location as historical shown in archive photographs, architectural details not discernable in photos. New benches will be simple without ornamentation.

Reflecting Pool:

- Existing location and size of pool will remain unchanged. Depth of pool will be reduced to maximum of 6 inches. Repairs will be made to coping, pool sides and bottom. Plumbing and bottom of pool will be retrofitted to incorporate rainwater harvesting system.
- Brick path around pool will be installed, consistent with archive photos.
- New sculpiture in center of pool will replace water feature(s) shown in archive photos. New sculpture will be distinctly different in style than those of the Rispin period.
- A tile mosaic is proposed for the bottom of the fountain. Mosaic will be commissioned by Capitola Arts Commission. Wall Fountain and Lower Sitting Area behind Wall Fountain:
- Existing fountain will be repaired to working condition. Missing parts will be reconstructed using archive photographs and site artifacts.
- Urn will be selected to match historic using archive photographs.
- New fountain spout will be selected, historical fountain spout style not discernable in photos. New fountain spout will be
- Lower seating area behind fountain and balustrade wall from grand staircase will be repaired according to archive photographs and existing artifacts on-site. Pathway from brick landing to seating area will be rebuilt. **Grand Staircase:**
- All walls, columns, column caps, brick landings, to be repaired according to archive photographs and existing artifacts on-site. Steps to be rebuilt.
- A new metal handrail as per code will be added on each side, mounted in ground outside of cheek wall.

Miscellaneous Garden Features

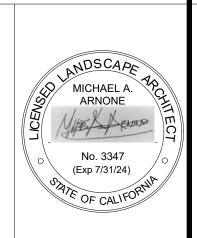
- 12" high concrete wall along old walkway at northwest corner of park to remain.
- Rock fossil walls by staircase to remain.
- Stone wall at north end of park by new ramp to remain.
- Existing 18" wide red concrete steps north of arbor to remain; add handrail as per code
- Existing 4' wide concrete steps by Game Table area to remain; add chain barricade and sign to close off



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SITE PLAN & **PHASING PLAN**

JOB NO. 201503

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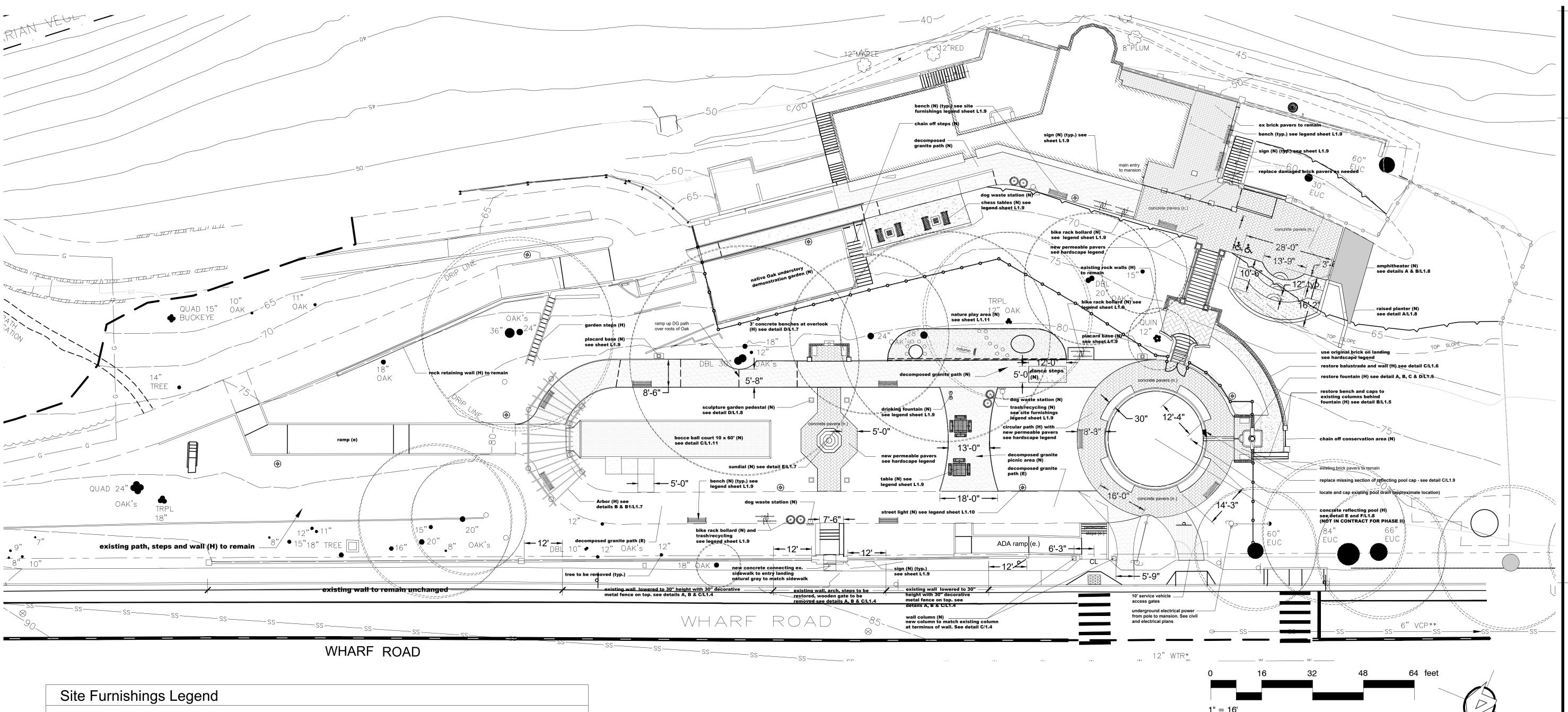
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| andstaircase columns ainer w/ Color untain and outlook to Fountain Emitter Leaf Fountain Emitter sible Chess Table wo Benches an Sundial Post Bollard rical Series Accessible stal Drinking Fountain | 2 1 1 2 4 1 4 | info@asilvestri.com Pottery Planet 831.465.9216 2600 Soquel Ave, Santa Cruz Black Oak Foundry 949.305.7372 www.fountainsunique.com Black Oak Foundry 949.305.7372 www.fountainsunique.com Kenneth Lynch & Sons 203.264.2831 www.klynchandsons.com Reliance Foundry 888.735.5680 www.reliance-foundry.com Most Dependable Fountains, Inc. www.mostdependable.com 800.552.6331 DuMor, Inc., Site Furnishings 800.598.4018 | 21"H x 25"W x 17.5" SQ Base" circular urn 16" x 38" No. M5822-ORB No. M209-ORB 6732 (chess table) 6737C (bench) No. 2554 Hourglass and Pelican Sundial R-7530-B Cuctile Iron Bike Bollard 2008 SM | Deep Red 10.5" diameter Oil Rubbed Bronze, 3 GPM flow 8" square in Oil Rubbed Bronze 2 GPM flow Concrete table top with metal legs Wood slats with metal legs 11 1/2" diameter Bronze 39" High w/ two loops; Black Textured Semi Gloss finish "Hi-Lo" barrier-free antique historic style heavy-duty aluminum alloy pedestal Textured Bergundy powder coat finish 6' long recycled plastic bench w/ armrest |
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| stal Drinking Fountain | 12 | www.mostdependable.com 800.552.6331 DuMor, Inc., Site Furnishings 800.598.4018 | | heavy-duty aluminum alloy pedestal Textured Bergundy powder coat finish 6' long recycled plastic bench w/ armrest |
| | | 800.598.4018 | Bench 57 - 60PL - 3AR | |
| | 3 | | | Deep Red color base w/ Cedar color recycled plastic top |
| n Receptacle | 1 | | Receptacle 107 32 gal. | Steel with Deep Red Powder Coat finish |
| cling Container | 3 | | Receptacle 107 32 gal. | Steel with Deep Red Powder Coat finish |
| e/Benches | 1 | | 76 Series PL 4 with surface plate mount | Deep Red color base w/ Cedar color recycled plastic top |
| sible Table/Benches | 1 | | 76 Series PL 3 with surface plate mount | Deep Red color base w/ Cedar color recycled plastic top |
| et Light fixture | 8 | SEE ELECTRICAL PLANS | SEE ELECTRICAL PLANS | SEE ELECTRICAL PLANS |
| gitti ole | 8 | | | |
| G STATION | 3 | DOODY CALLS DIRECT doodycallsdirect.com | THE SENTRY STATION | GREEN ANCHOR TO CONCRETE FOOTING |
| I I MOUNT SIGN | 3 | TO BE SELECTED | PORCELAIN ENAMEL | LIGHT CREAM FIELD WITH GOLD TITLE LETTERING SELECTION OF PHOTOGRAPHS AND TEXT TO BE |
| | 1 ^ | TO BE SELECTED | PORCELAIN ENAMEL | AND DESIGNED FOR APPROVAL BY CITY |
| gh G (| STATION MOUNT SIGN | STATION 3 MOUNT SIGN 3 | STATION 3 DOODY CALLS DIRECT doodycallsdirect.com | STATION 3 DOODY CALLS DIRECT the SENTRY STATION THE SENTRY STATION MOUNT SIGN 3 TO BE SELECTED PORCELAIN ENAMEL |

| SYMBOL | DESCRIPTION | MANUFACTURER | COLOR | FINISH/PATTERN | SQ FT/LN FT |
|--------|--|--|------------------------|-----------------------|-----------------|
| | CONCRETE PAVERS* ON PREPARED BASE SEE CIVIL PLANS | BELGARD AQUALINE SERIES PERMEABLE PAVER AT BASE OF GRAND STAIRCASE & AROUND THE REFLECTING POOL | VICTORIAN | HERRINGBONE | SEE CIVIL PLANS |
| | ORIGINAL BRICK ON SITE STORED IN MANSION GARAGE | ORIGINAL BRICK WILL BE USED ON THE LANDING BETWEEN UPPER & LOWER SECTIONS OF THE GRAND STAIRCASE | ORIGINAL BRICK ON SITE | HERRINGBONE | 160 SF |
| | BRICK PAVER ON CONCRETE | EXISTING TO BE REPAIRED OR REPLACED TO MATCH ORIGINAL | COLOR TO MATCH | MATCH PATTERN AND CUT | SEE CIVIL PLANS |
| | CONCRETE RAMPS | N/A | NATURAL GRAY | MEDIUM BROOM FINISH | SEE CIVIL PLANS |
| | CONCRETE STEPS | N/A | COLOR TO MATCH | TO MATCH ORIGINAL | SEE CIVIL PLANS |
| | CAL GOLD DECOMPOSED GRANITE | N/A | CALIFORNIA GOLD | WITH STABILIZER | SEE CIVIL PLANS |
| | CRUSHED OYSTER SHELL BOCCE BALL COURT | N/A | GRAY | RAKED | 648 SF |
| | 12" DEPTH OF FIBAR ENGINEERED BARK FOR NATURE PLAY AREA | N/A | YELLOW/BROWN | N/A | 525 SF |

^{*} A SAMPLE OF THE NEW PAVER SHALL BE SUBMITTED FOR APPROVAL OF STYLE, SIZE, AND COLOR BY CITY PUBLIC WORKS STAFF AND LANDSCAPE ARCHITECT



THE PARK AT RISPIN MANSION Wharf Road and Clares

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REVISIONS



HARDSCAPE PLAN & SITE FURNISHINGS

JOB NO. 201503

SCALE 1/16" = 1' - 0"

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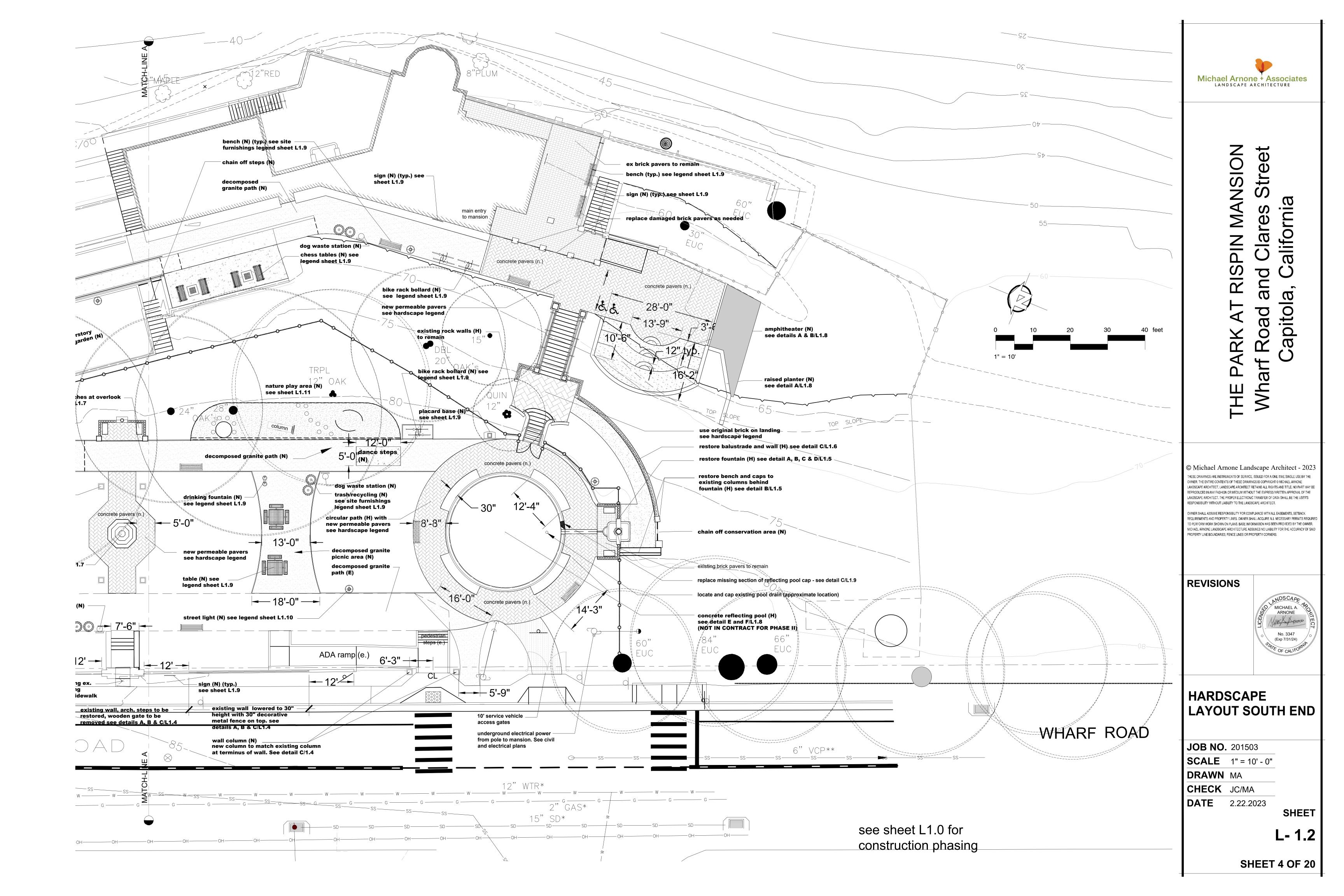
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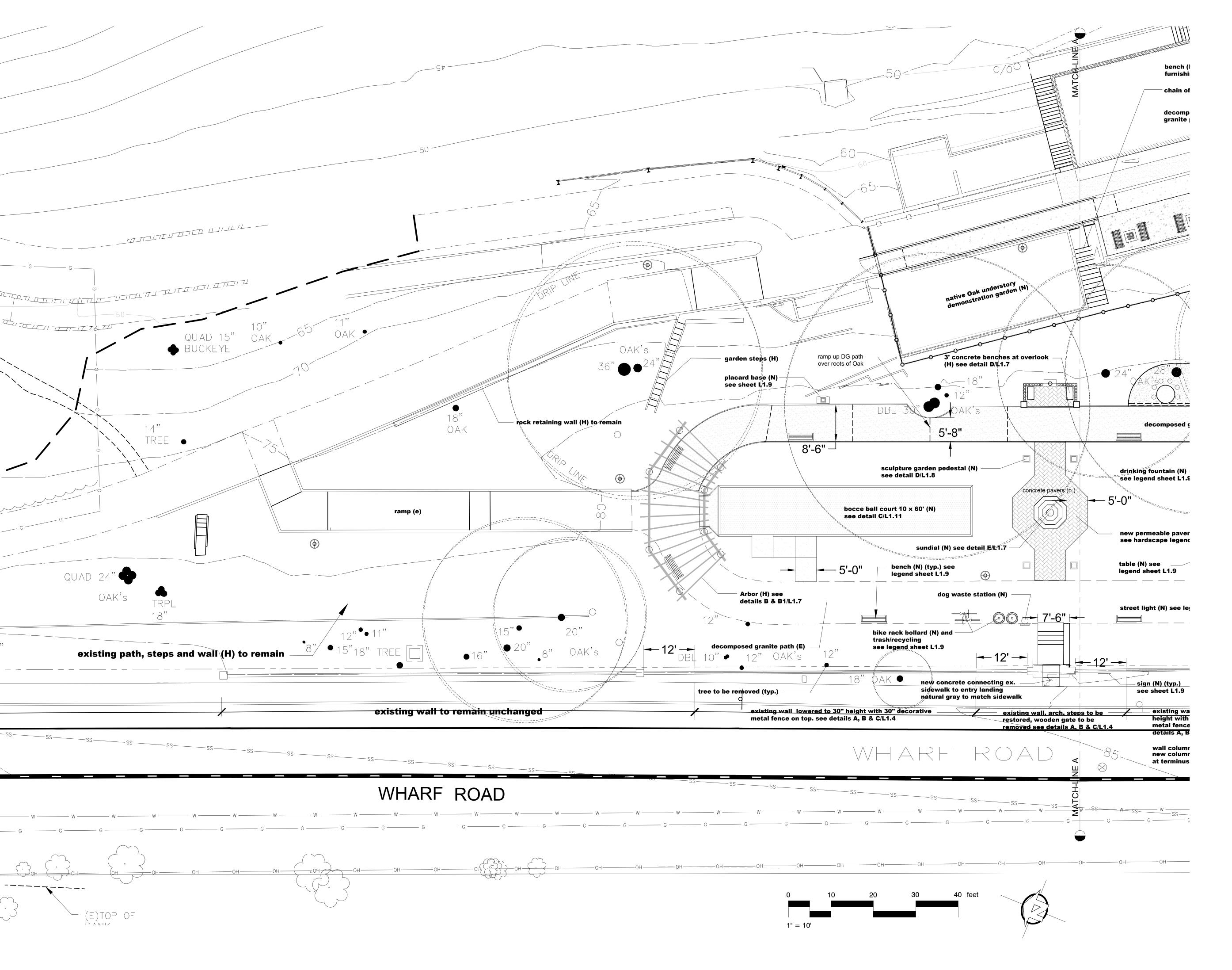
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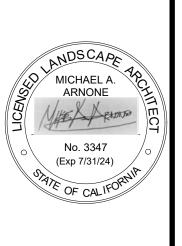


Street alifornia Clares and apitola, Road Wharf

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HARDSCAPE LAYOUT NORTH END

JOB NO. 201503

SCALE 1" = 10' - 0"

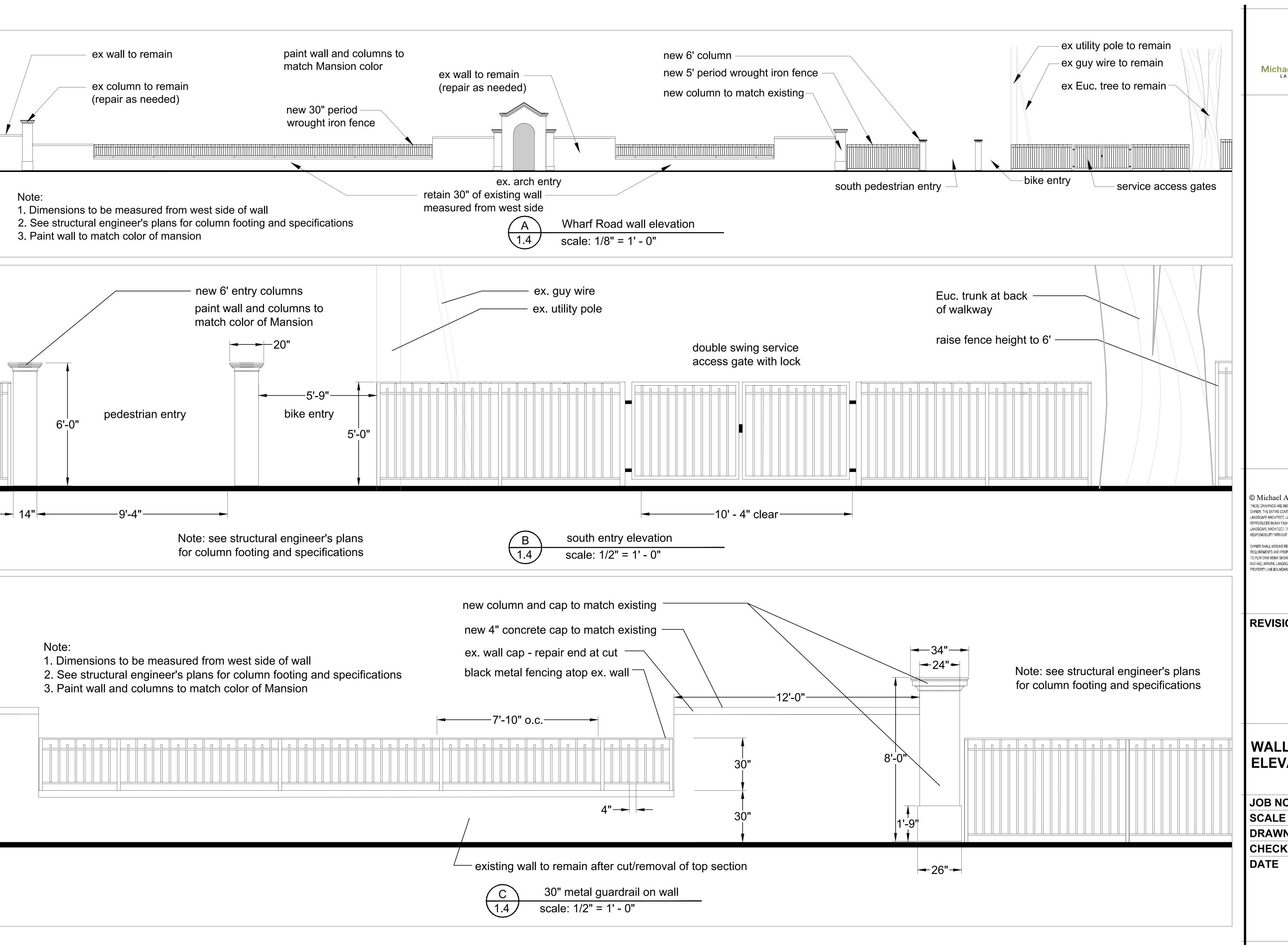
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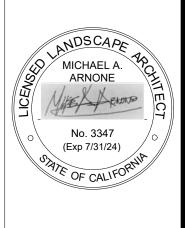


RISPIN MANSION 0 apitola PARK

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WALL DETAILS & **ELEVATIONS**

JOB NO. 201503

SCALE as noted

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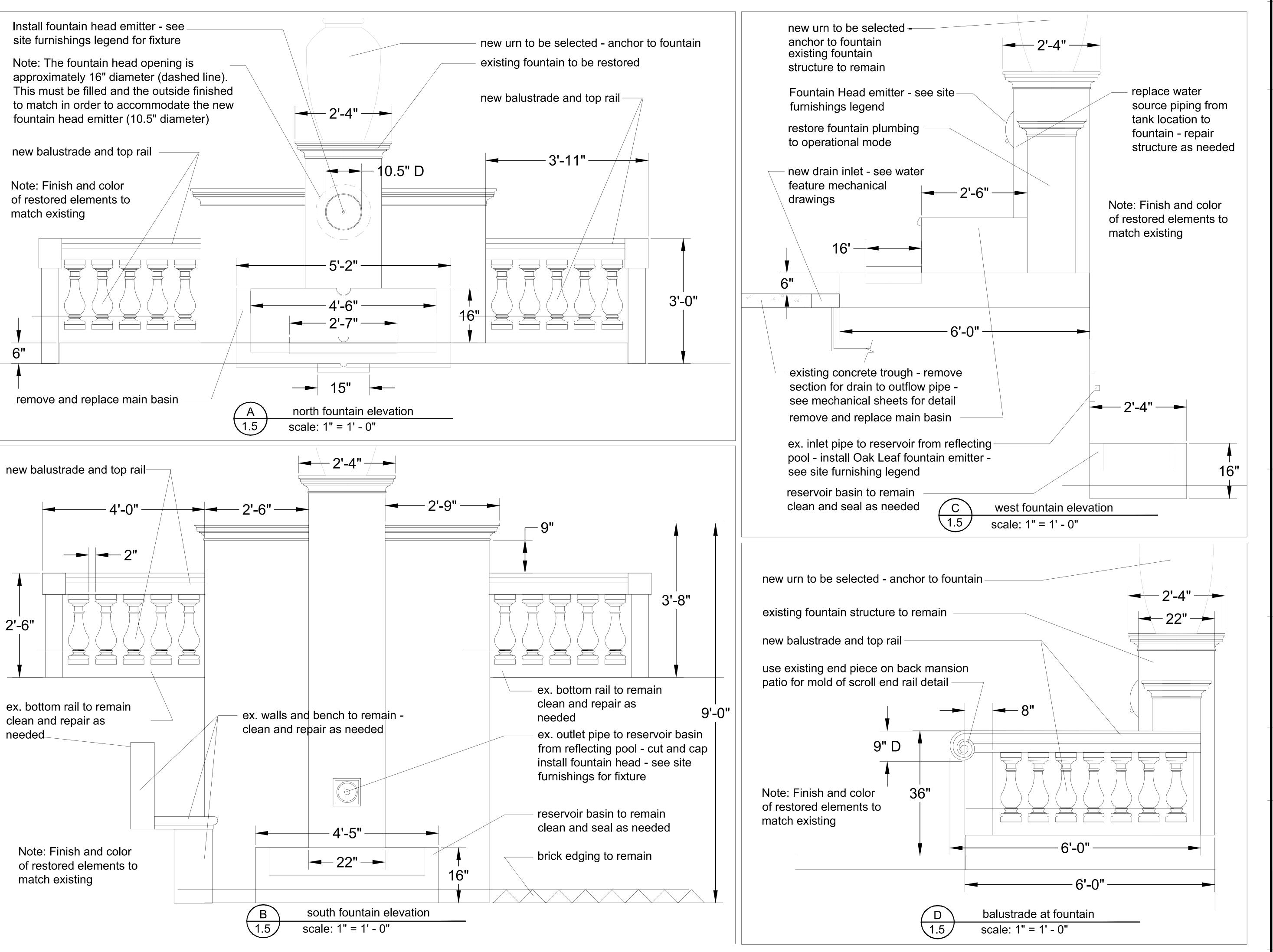
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THE PARK AT RISPIN MANSION Wharf Road and Clares Street

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WALL FOUNTAIN DETAILS

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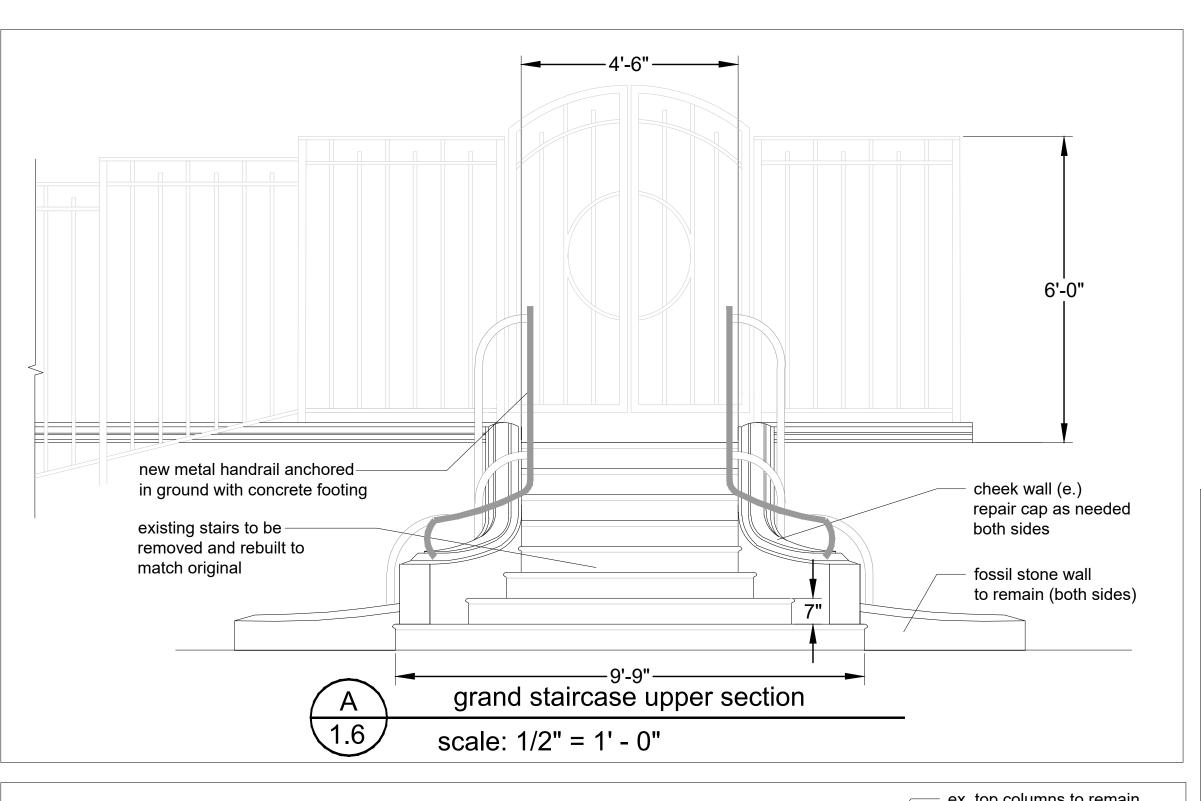
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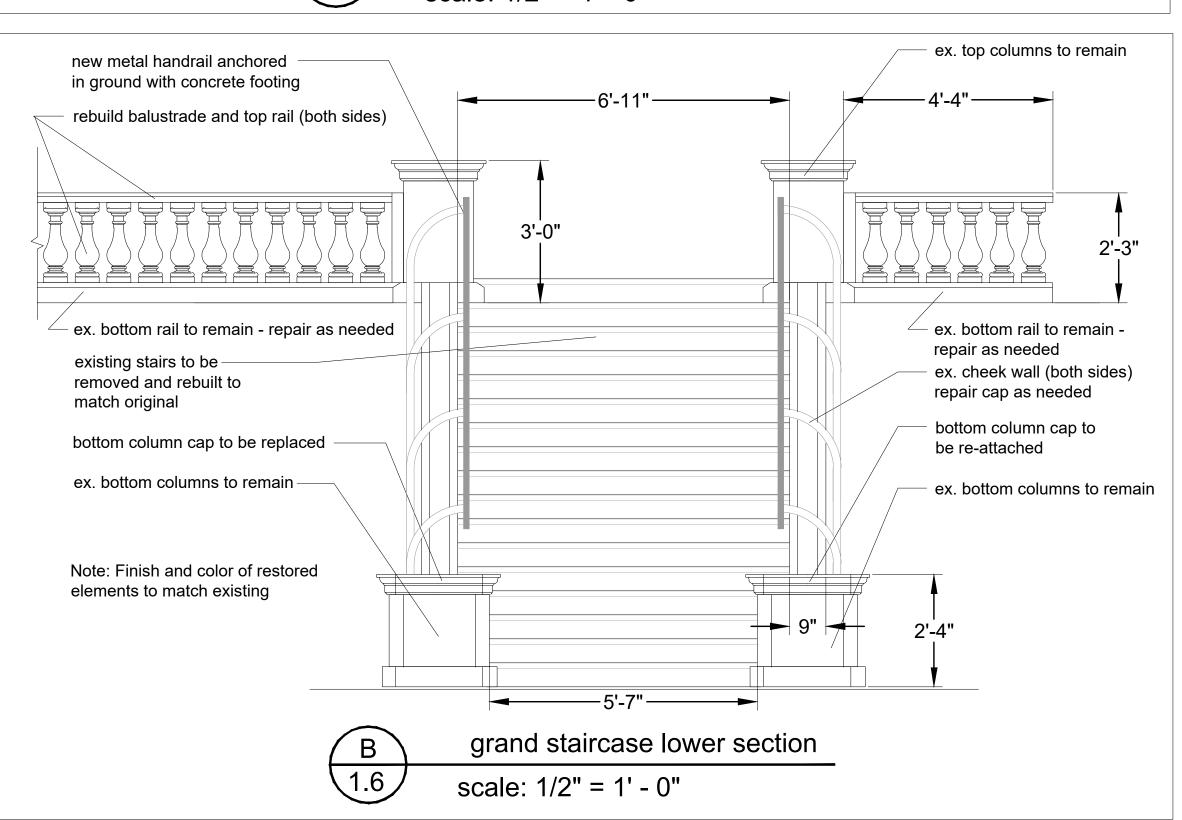
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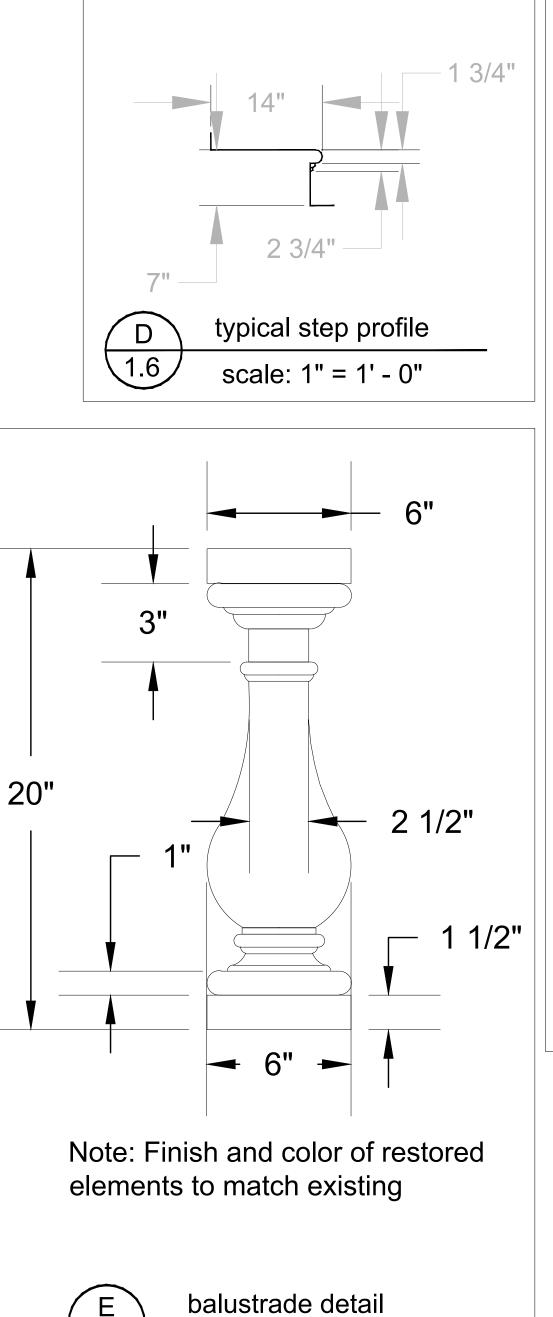
DATE 2.22.2023 **SHEET**

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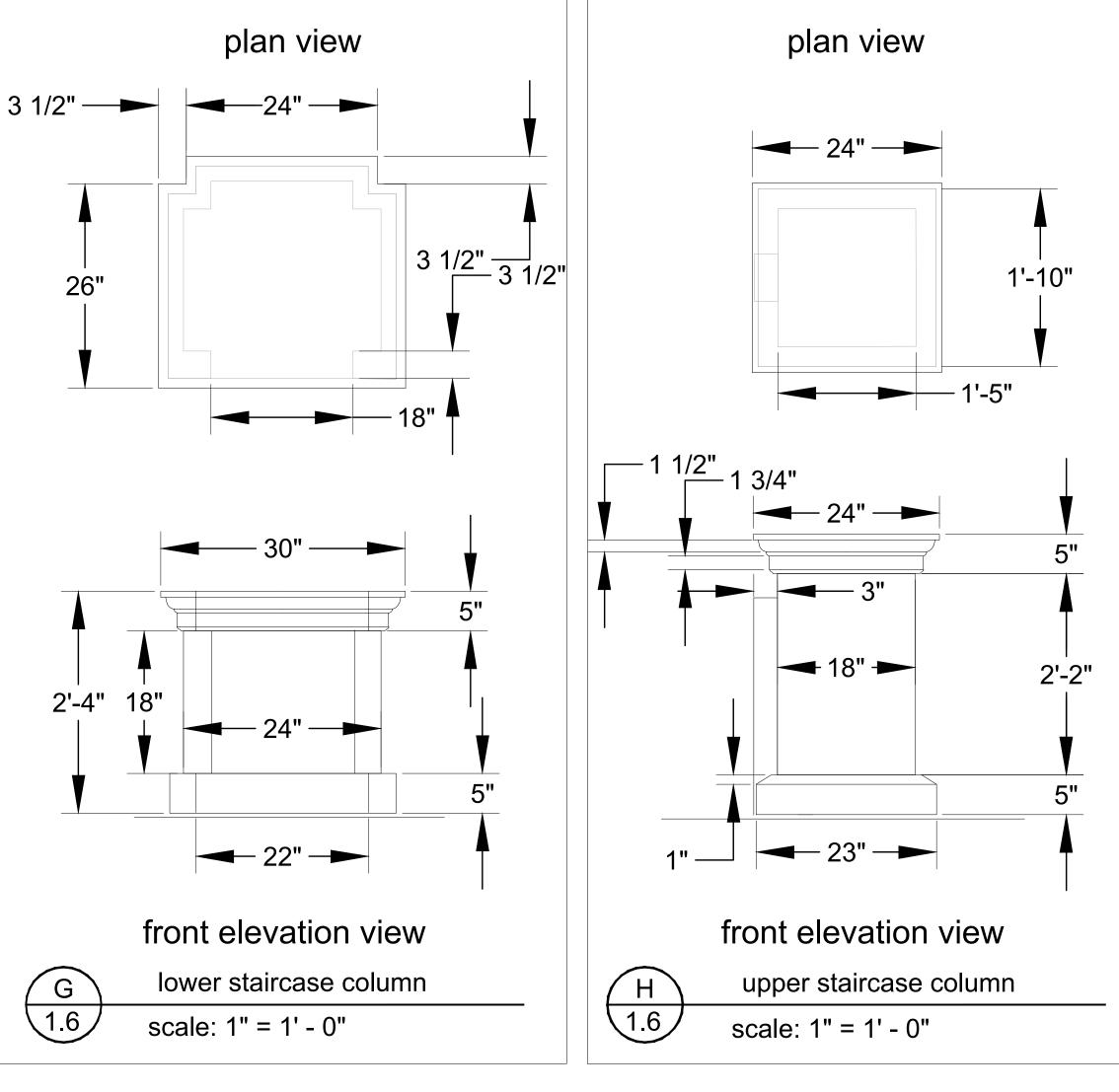
SHEET 7 OF 20



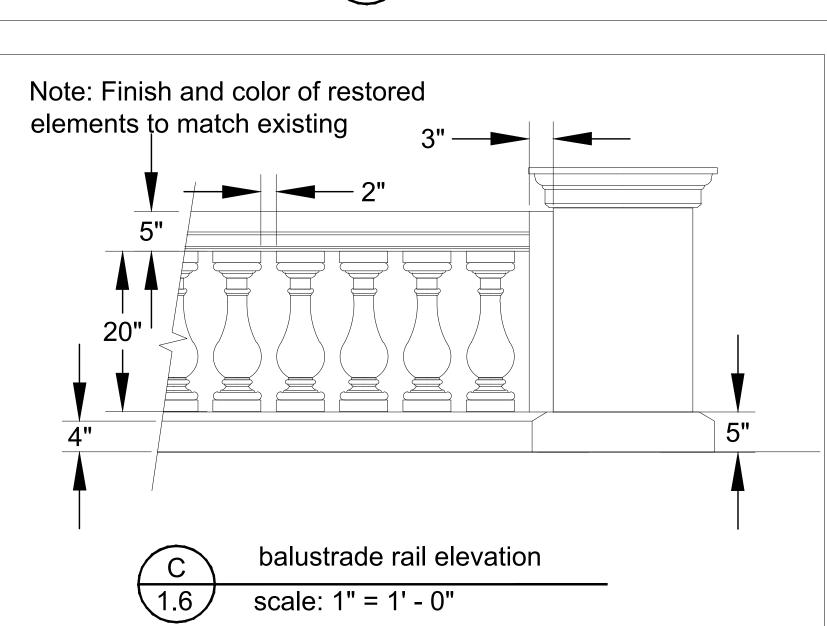


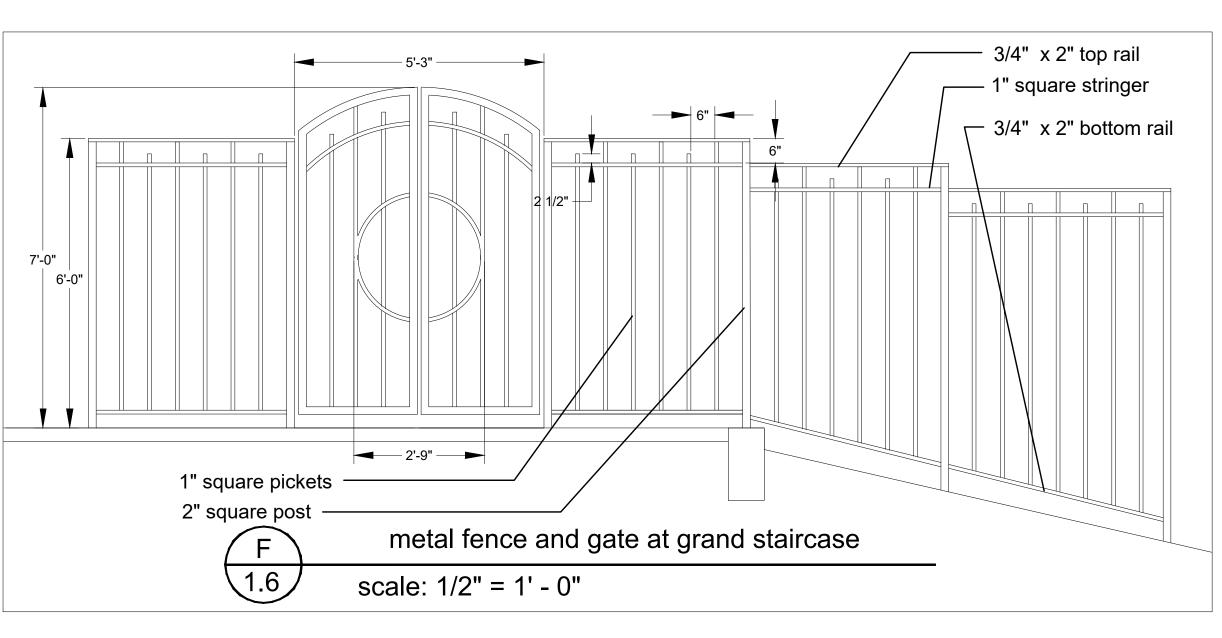


scale: 3" = 1' - 0"

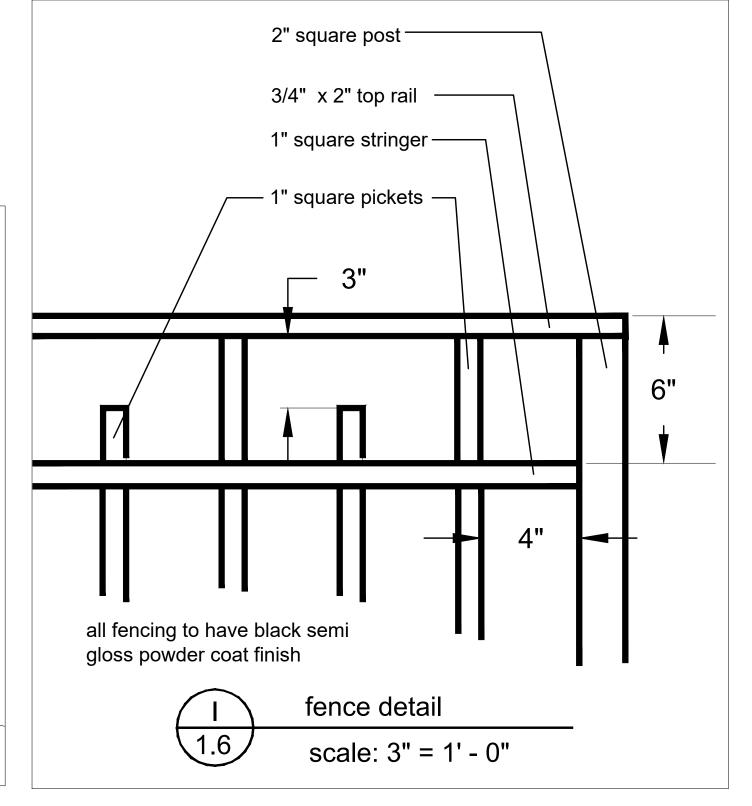


finish and color of restored elements to match existing see structural engineer's sheets for details and specifications





 $\sqrt{1.6}$





THE PARK AT RISPIN MANSION Wharf Road and Clares Street Capitola, California

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REVISIONS



GRAND STAIRCASE & FENCE DETAILS

2.22.2023

JOB NO. 201503

SCALE as noted

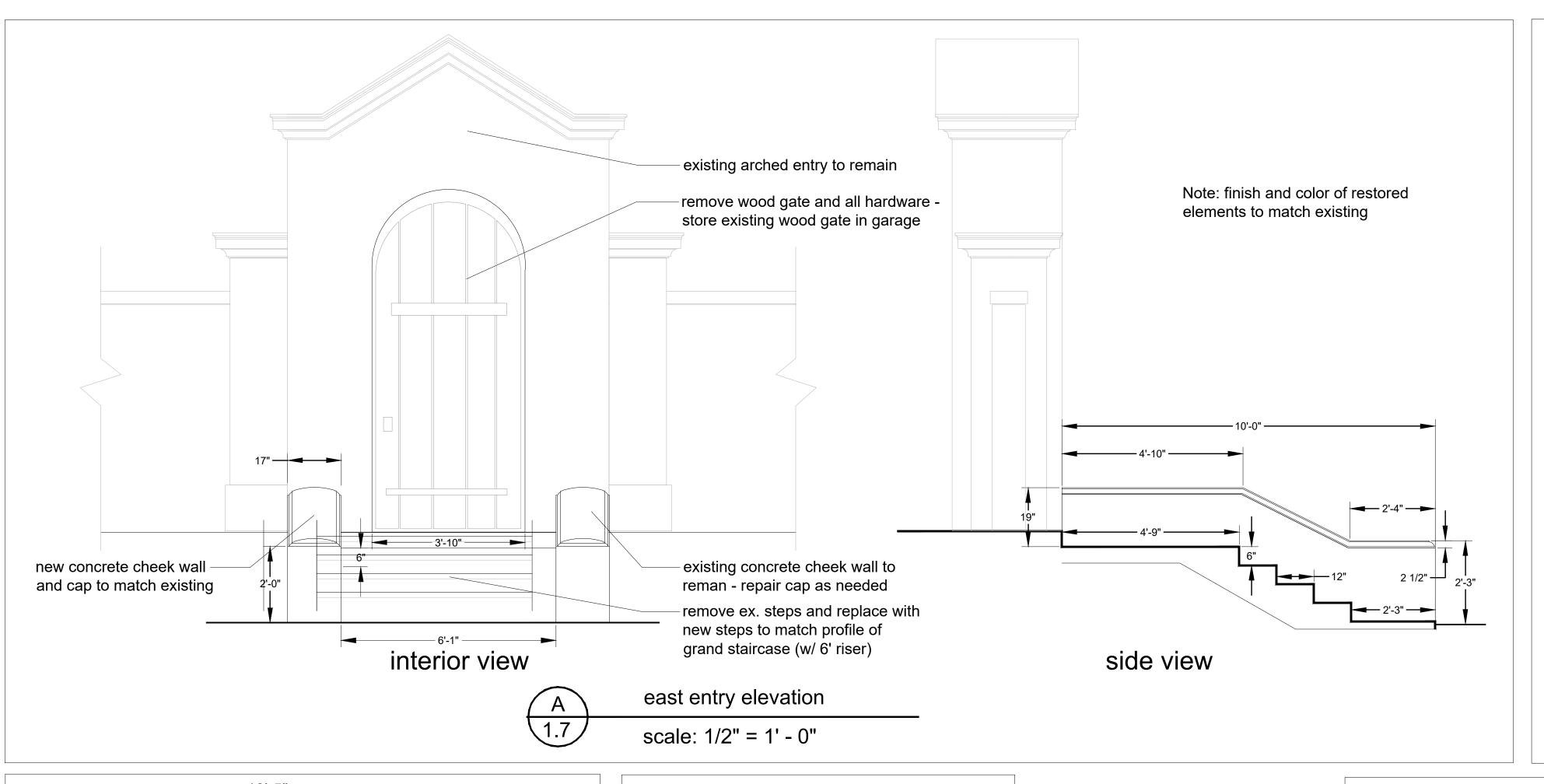
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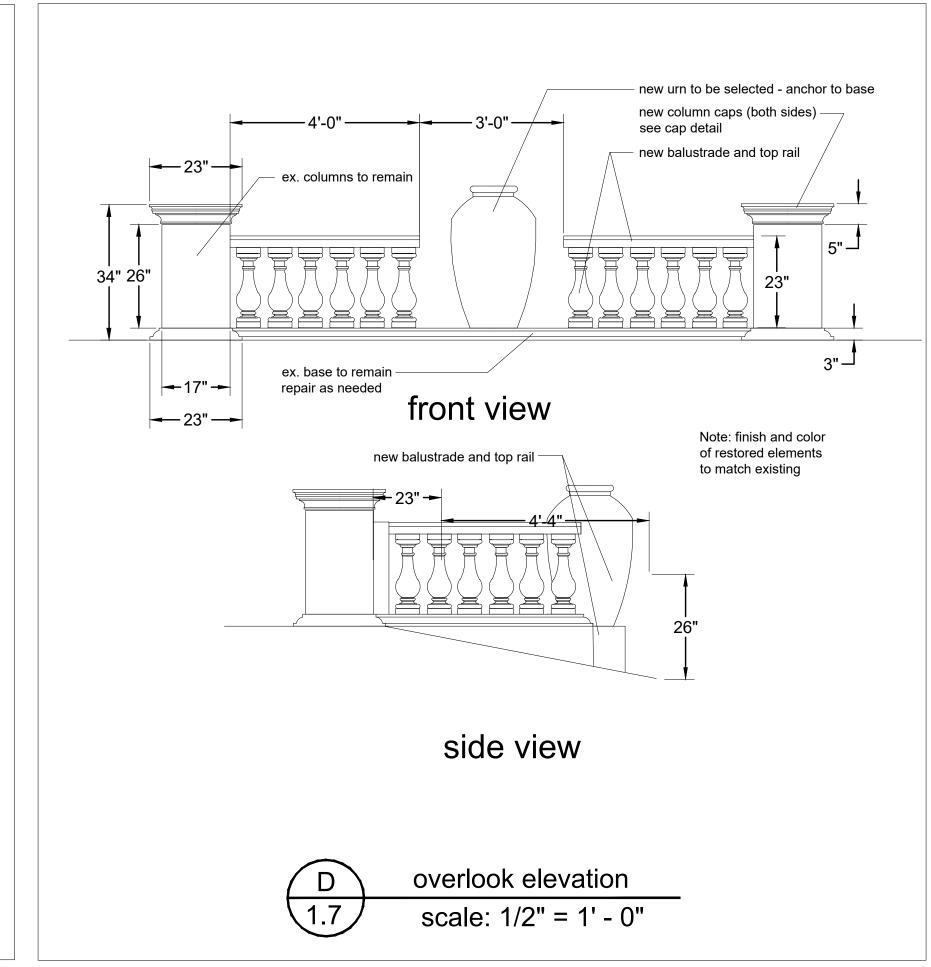
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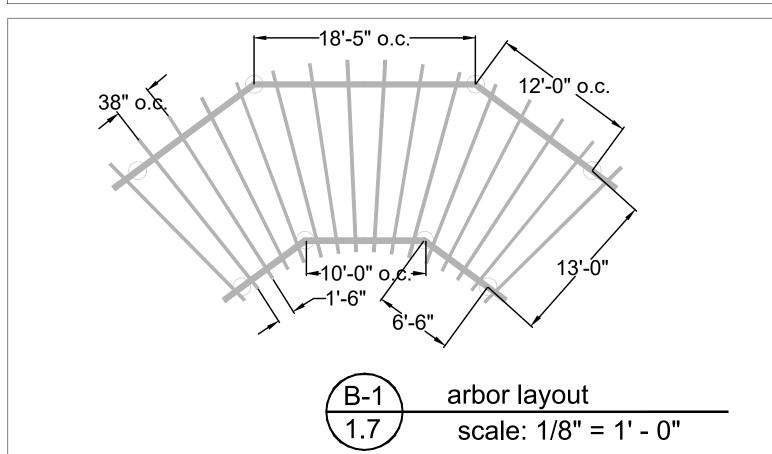
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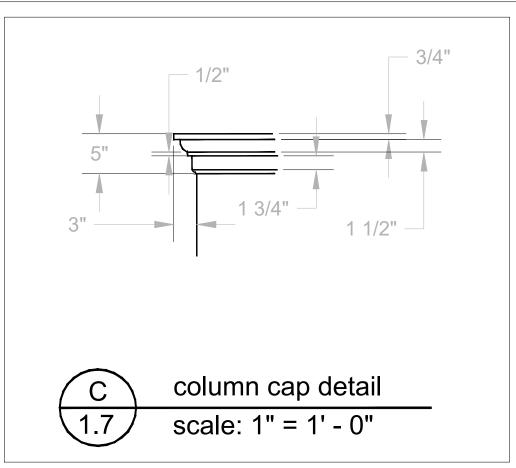
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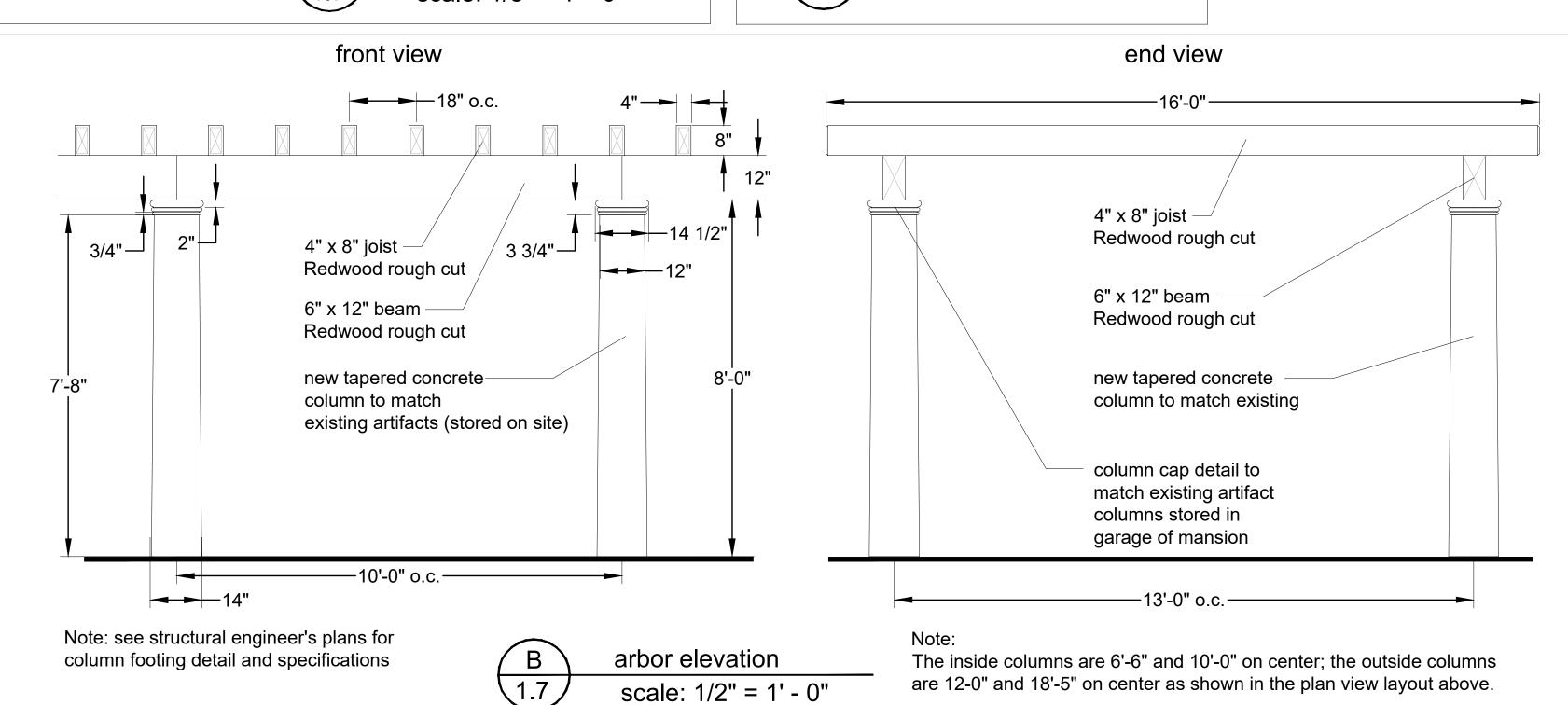
SHEET 8 OF 20

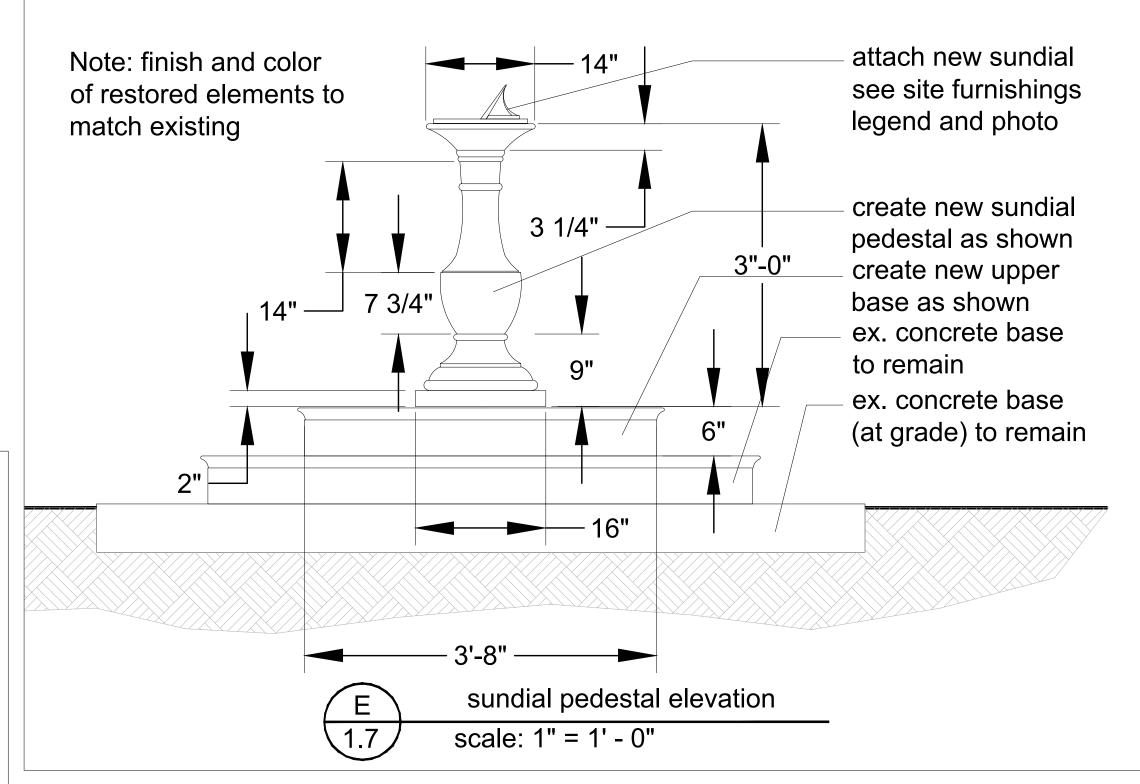












see structural engineer's sheets for details and specifications

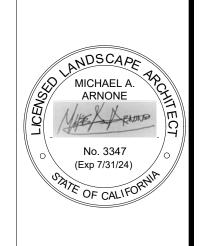


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REVISIONS



ENTRY GATE, ARBOR, OVERLOOK & SUNDIAL DETAILS

JOB NO. 201503

SCALE as noted

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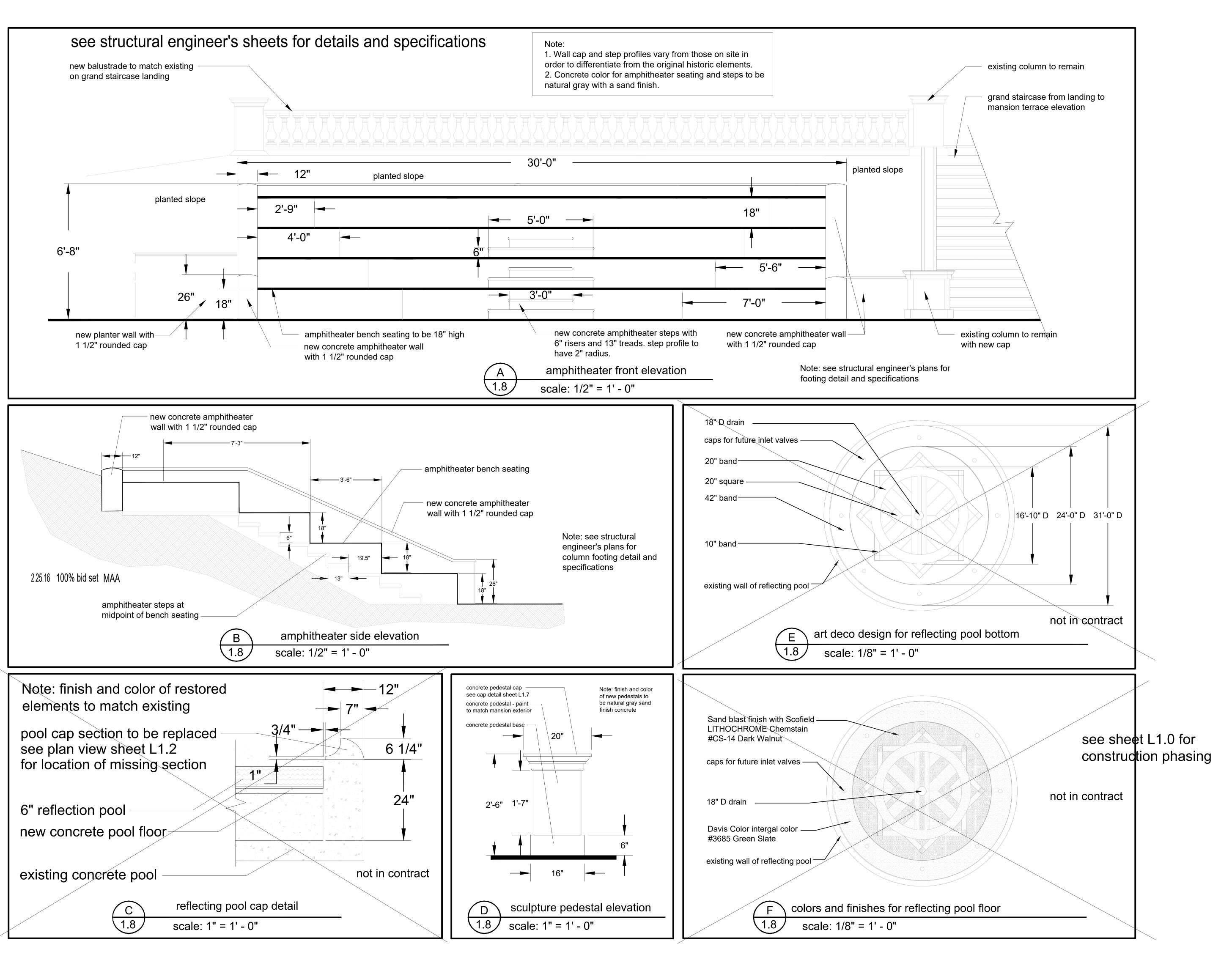
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SHEET 9 OF 20





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REVISIONS



AMPHITHEATER & SCULPTURE PEDESTAL DETAILS

JOB NO. 201503

SCALE as noted

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DATE 2.22.2023

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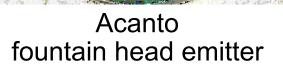
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SHEET 10 OF 20

sundial

Pelican





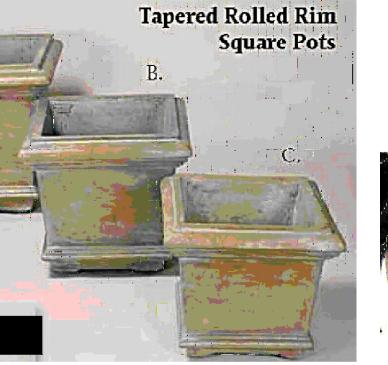
Oak Leaf fountain head emitter



park table



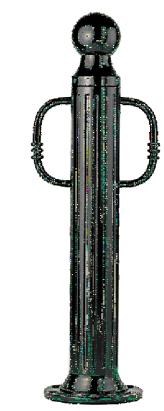
stone bench



square plant container



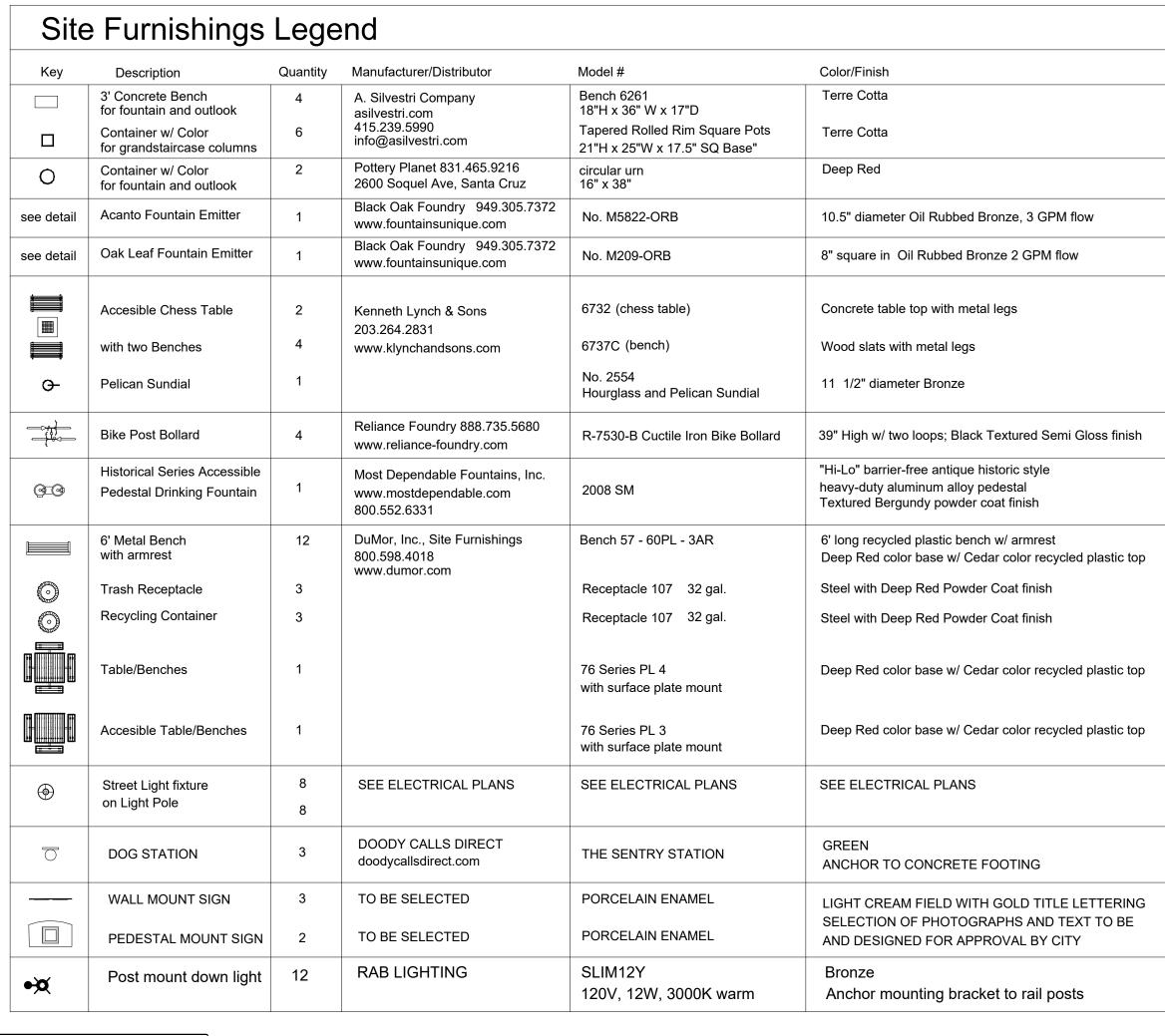
drinking fountain



bike bollard



park bench





dog clean up station

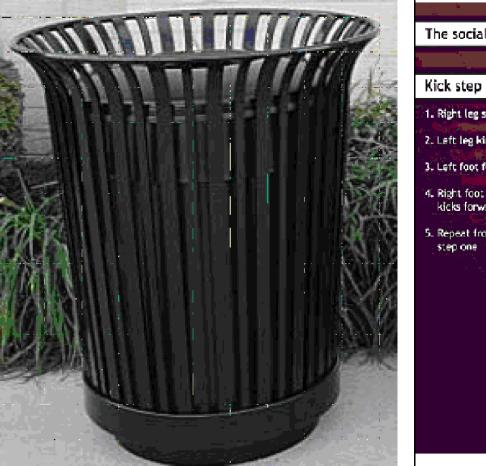
game table



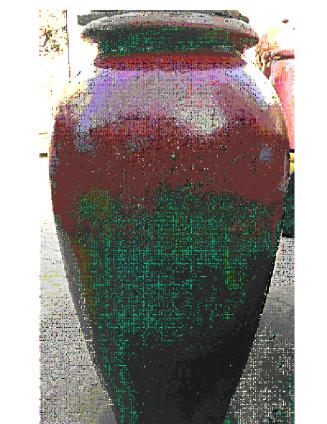
Acorn style park light







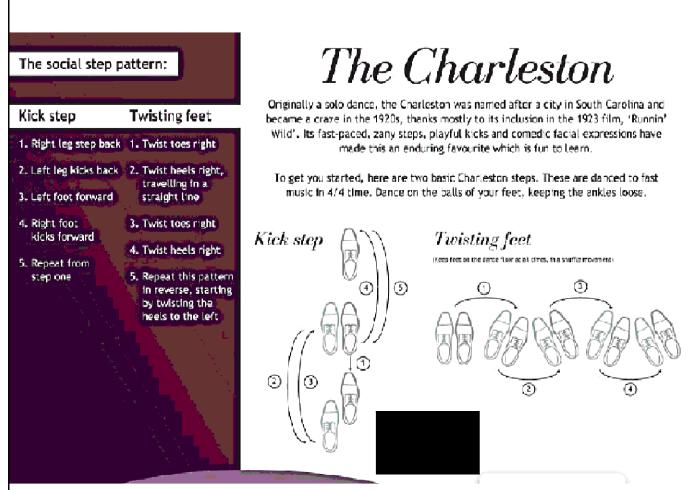
trash/recycling receptacles



game table with benches



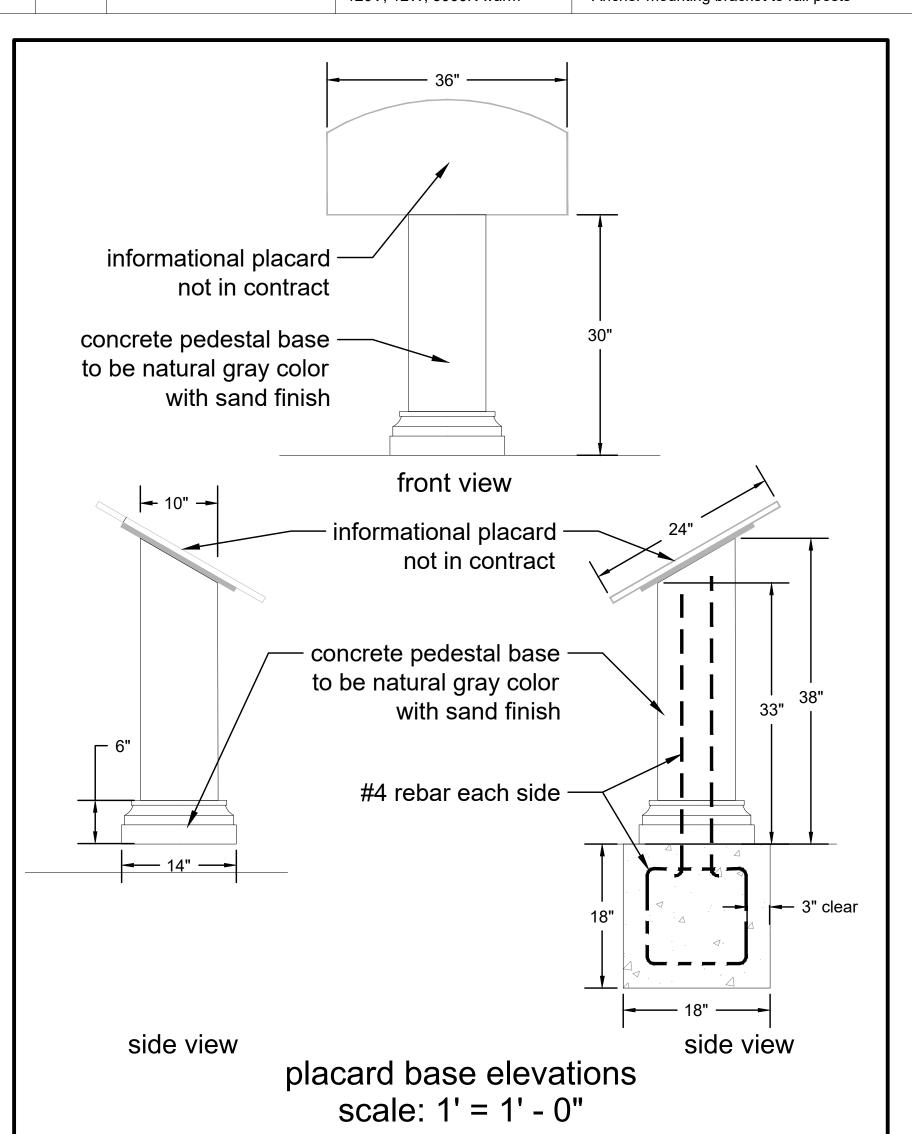
circular urn



Charleston dance steps

THE CHARLESTON

- 1. The 'kick step' and 'twisting feet' Charlseton dance steps shall be created using polished 1/4" stainless steel with engraved numbers as shown.
- 2. The footprints with numbers and directional arrows shall be placed on top of the 5' x 12' concrete pad shown on plans.
- 3. The footprints shall be oriented facing east so the 'dancer' would be facing the mansion. The footprints can be a simplified image of the shoeprint shown above.
- 4. The text for 'The Charleston', 'Kick Step', and 'Twisting Feet' shall be 1/4" polished stainless steel using a readable font (arial or similar).
- 5. All stainless steel shall be securely attached to the concrete using LOCTITE Metal/Concrete Epoxy or equal product.
- 6. The commissioned artist shall submit a final layout sketch to be approved by the Landscape Architect and City prior to start of fabrication.



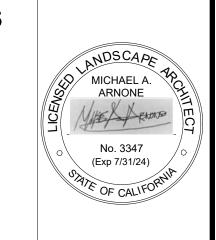
Michael Arnone + Associates LANDSCAPE ARCHITECTURE

MANSION Stre D X X Ω

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REVISIONS



SITE FURNISHING LEGEND, PHOTOS & SIGN DETAILS

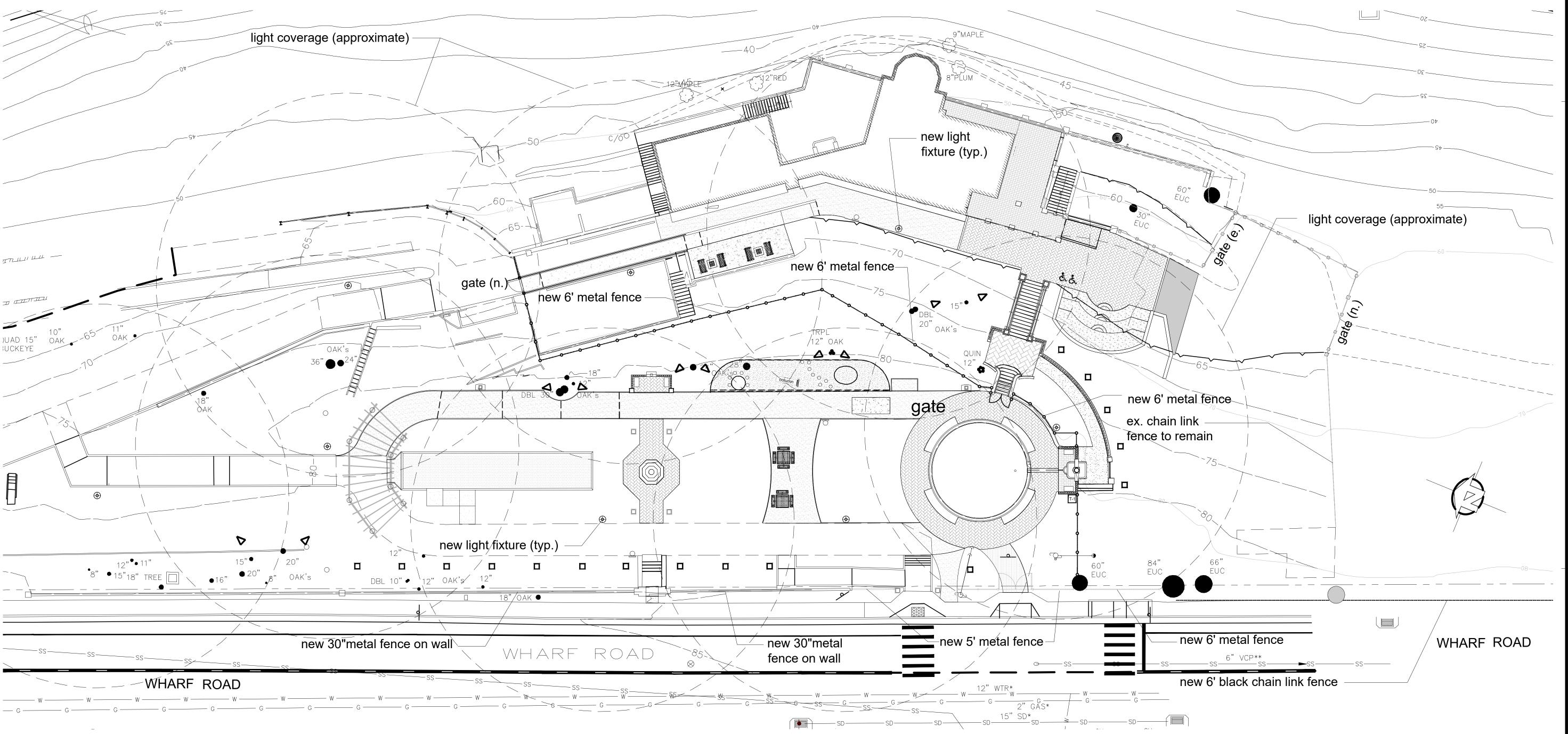
JOB NO. 201503 **SCALE** as noted DRAWN MA

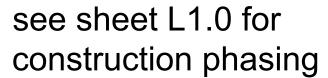
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SHEET 11 OF 20





| FENCE LEGEND | | | | | | | |
|----------------|--|--|--|--------|--|--|--|
| ELEVATION VIEW | PLAN VIEW | DESCRIPTION | LOCATION | LENGTH | | | |
| | | 5' DECORATIVE METAL FENCE w/ 6" PICKET SPACING black semi gloss powder coat finish | AT ENTRY OFF WHARF ROAD | 64' LF | | | |
| | | 6' DECORATIVE METAL FENCE w/ 6" PICKET SPACING black semi gloss powder coat finish | AT TOP OF SLOPE TO FOUNTAIN FROM FOUNTAIN TO WHARF ROAD | 266 LF | | | |
| | | 30" DECORATIVE METAL GUARDRAIL w/ 4" PICKET SPACING black semi gloss powder coat finish | ON TOP OF SECTIONS OF WALL ALONG WHARF ROAD | 100 LF | | | |
| | ************************************** | 6' BLACK CHAIN LINK FENCE | PERIMETER OF PARK AREA | 140 LF | | | |

| Key | Description | Quantity | Manufacturer | Model # | Color/Finish |
|----------|--|----------|---|--|--------------------------------|
| | Street Light fixture on Light Pole | 8 8 | SEE ELECTRICAL PLANS | SEE ELECTRICAL PLANS | SEE ELECTRICAL PLANS |
| | Well light on Italian Cypress & Palms | 15 | Unique Lighting 209.607.3060 www.uniquelighting.com | Apollo Star APST-12-L1030 12 Volt w/ Flex Gold LED PAR 36 | Standard Weathered Brass Grate |
| ∇ | Uplight on existing Oaks | 12 | Unique Lighting 209.607.3060 www.uniquelighting.com | Bishop BISH-12-L1830 12 Volt w/ Flex Gold LED PAR 36 | Standard Weathered Brass Grate |
| T-1 | 300 watt 12V transformer | 1 | Unique Lighting 209.607.3060 www.uniquelighting.com | 300W LED Transformer | Stainless Steel Cabinet |



THE PARK AT RISPIN MANSION Wharf Road and Clares Street

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REVISIONS



LIGHTING & FENCING PLAN

JOB NO. 201503 SCALE 1/16" = 1' - 0"

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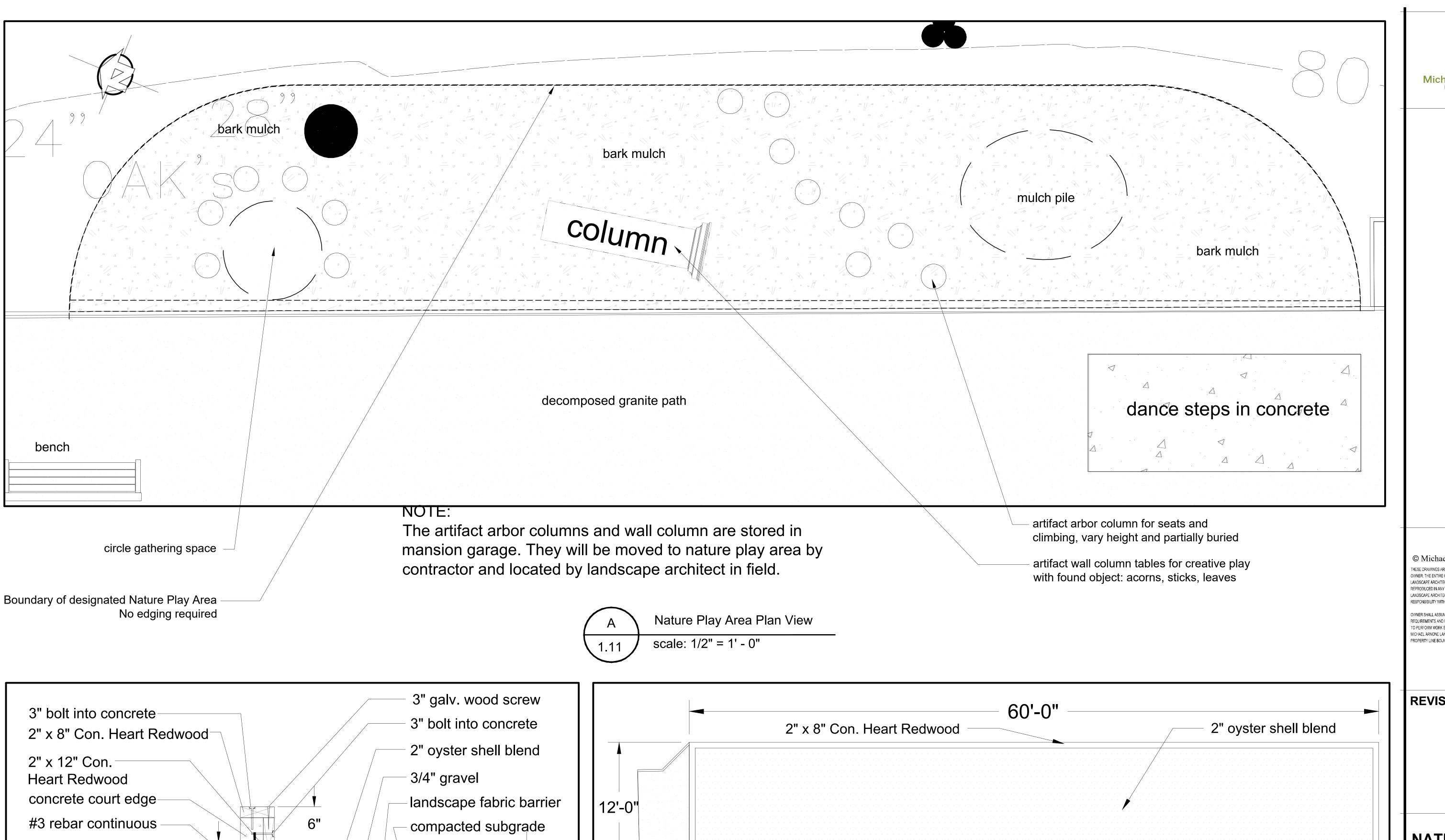
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 DATE
 2.22.2023

SHEET

L- 1.10

SHEET 12 OF 20



8'-0" **->**

5'-0"

5'-0"

5'-0" **-**

1.11

decomposed granite

with stabilizer

Bocce Ball Court Plan View

scale: 1/2" = 1' - 0"

#3 rebar vertical 24" o.c.

Bocce Ball Court Section

not to scale

1.11

concrete footing for

court edge



RISPIN MANSION and

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REVISIONS



NATURE PLAY, **BOCCE BALL PLAN** & DETAILS

JOB NO. 201503

SCALE as noted

DRAWN MA

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DATE 2.22.2023

SHEET

L- 1.11

SHEET 13 OF 20

Maureen Hamb-WCISA Certified Arborist WE2280 Professional Consulting Services

February 10, 2016

Mike Arnone + Associates Landscape Architecture Rknown1@hotmail.com

Project: Rispin Mansion Landscape Restoration

Phase: Tree Evaluation

As you requested I have reviewed the plans for the proposed landscape renovation for Rispin Mansion in the City of Capitola.

The project includes restoring the historical features including pathways, fountain and other uses based on the historical plans for the property.

Observations

The property is forested with mature, semi-mature and young coast live oaks (*Quercus agrifolia*). A total of 25 oaks are growing adjacent to the proposed improvements.

In general the trees are healthy and well structured. Several mature trees display the wide and spreading canopies typical of the species.

Potential Impacts

Trees #2-#5 are mature trees adjacent to construction and impacts have been evaluated and recommendations made to protect the trees during the renovation.

Tree #2 is within a few feet of the proposed walkway that circles the site. To reduce impacts to tree roots the path will be placed on natural grade, no excavation will be required.

Trees #3-#5 are adjacent to a new use area and pathway. No detrimental impacts are anticipated; protection fencing and barricades will prevent inadvertent damage to the trees.

Tree #6 and groups #7 and #9 are adjacent to the existing stucco wall that will be partially demolished for the project. Tree #6 cannot withstand the impacts to the root zone and removal will be required. Tree groups #7 and #9 are clusters of small diameter oaks (5 to 9 inches). The trees are inconsistent with the historical design and will be removed and replaced with trees that were present in the original design.

Telephone: 831-763-6919

Fax: 831-763-7724
Mobile: 831-234-7735

849 Almar Ave. Suite C #319 Santa Cruz, CA 95060 email: maureenah@sbcglobal.net Tree #8 is growing outside the existing stucco wall. The wall will be retained in this area but its height will be reduced. No impacts to this tree are anticipated. It will be protected with exclusionary fencing and straw bale barricades during the project construction.

Tree group #9 and #10 will also be retained and protect with exclusionary fencing and straw bale barricades. If any tree roots are exposed during excavation or site grading they will be properly pruned under the supervision of the project arborist. All damaged root tissue will be removed using appropriate tools that may include pruners, loppers or sawzall. If the area is to remain open for more than 48 hours the roots will be covered with a layer of moistened burlap. Burlap will be kept moist, not saturated until the area is backfilled.

No sealant or other material will be applied to the pruned roots; moistened burlap will prevent the roots from drying and allow for the trees natural healing process to take place.

Pruning Recommendations

Trees #1-#4 have broad and spreading canopies that extend well beyond the trunks and less than a few feet above natural grade (pictured below). Pruning to provide pedestrian clearance will be completed.



Two to three lower braches will be pruned back to the trunk from each tree. Several other branches higher in the canopy may require length reduction back to an existing lateral branch.

In addion, dead branching greater than one inch in diameter will be removed to reduce the risk of falling branches.

All pruning will be completed by a qualified professional under the supervision of the project arborist.

Tree Protection

Exclusionary fencing will be erected in the areas doucmented on the attached site plan. Fencing will be orange plastic supported by metal posts embedded in the gorund. Posts will be placed no further than five feet apart.

Staw bales laid end to end will be installed just inside the edge of the exclusiory fencing. (Sample pictured at right)

Conclusion

The restoration of the historical gardens at Rispin Mansion can be completed with the removal of one 14 inch coast live oak and two groups of small diameter oaks.

Pruning to provide clearance and improve tree structure will be required. The pruning as described will not adversely affect tree health or structural integrity.

The protection measures must be in place prior to the onset of the project. Exclusionary fencing and straw bale barricade locations will be inspected by the project arborist prior to the onset of site changes.



Please call my office with any questions regarding the trees on this project site.

Respectfully submitted, Maureen Hamb-Certified Arborist WE2280

BATH HOUSE Tree #4 TOP # SLOPE -AC SIDEWALK Grbup #7 Tree #8 Group #10 WHARF ROAD TREE PROTECTION & REMOVAL PLAN RISPIN MANSION PARK PREPARED BY MAUREEN HAMB-PROJECT ARBORIST scale: 1" = 20' - 0" Protect in Place January 18, 2016 Protection Fencing & Barricades ----1" = 20'

OAK PROTECTION NOTES:

- 1. LANDSCAPE CONTRACTOR TO CLEAR ALL IVY ON OAK TREE TRUNKS AND CANOPY.
- 2. LANDSCAPE CONTRACTOR TO REMOVE ALL IVY PLANTS AND ROOT SYSTEMS WITHIN A TEN FOOT RADIUS OF ALL OAK TREE TRUNKS.
- 3. NO MECHANICAL TRENCHING OR TILLING WITHIN A TEN FOOT RADIUS OF ANY OAK TREE TRUNK.



THE PARK AT RISPIN MANSION Wharf Road and Clares Street

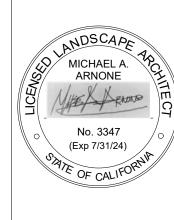
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REVISIONS



TREE PROTECTION PLAN

JOB NO. 201503

SCALE 1" = 20' - 0"

DRAWN MA

 CHECK
 JC/MA

 DATE
 2.22.2023

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SHEET 14 OF 20

PLANT SCHEDULE

| TREES CER FOR | BOTANICAL / COMMON NAME Cercis canadensis `Forest Pansy` TM / Forest Pansy Redbud | CONT 24" box | QTY 4 |
|--------------------------|---|-----------------|------------------|
| CUP STR | Cupressus sempervirens `Stricta` / Columnar Italian Cypress | 24" box | 9 |
| SHRUBS ACH WYM | BOTANICAL / COMMON NAME Achillea millefolium `La Luna` / Yarrow | CONT 1 gal | <u>QTY</u> 54 |
| ACH SAL | Achillea millefolium `Salmon Beauty` / Salmon Beauty Yarrow | 1 gal | 32 |
| AGA SLI | Agapanthus orientalis `Queen Mum` / White Lily of the Nile | 5 gal | 17 |
| ARC EME | Arctostaphylos uva-ursi `Emerald Carpet` / Emerald Carpet Manzanita | 5 gal | 21 |
| ARC REY | Arctostaphylos uva-ursi 'Point Reyes' / Kinnikinnick | 5 gal | 11 |
| CAL KAR | Calamagrostis x acutiflora `Karl Foerster` / Feather Reed Grass | 1 gal | 38 |
| CAR TUM | Carex tumulicola / Berkeley Sedge | 1 gal | 6 |
| CAR CAL | Carpenteria californica / Bush Anemone | 5 gal | 12 |
| CEA HO7 | Ceanothus griseus horizontalis `Carmel Creeper` / Carmel Creeper | 5 gal | 7 |
| COR PUL | Correa pulchella / Australian Fuchsia | 5 gal | 48 |
| COR WYN | Correa x `Wyn`s Wonder` / Variegated Australian Fuchsia | 5 gal | 13 |
| DIE VAR | Dietes vegeta `Variegata` / Variegated African Iris | 5 gal | 27 |
| ENC CAL | Encelia californica / California Encelia | 1 gal | 14 |
| ERI BEA | Erigeron glaucus / Beach Daisy | 1 gal | 13 |
| GER CAN | Geranium x cantabrigiense `Biokovo` / Biokovo Cranesbill | 1 gal | 18 |
| HEL SAP | Helictotrichon sempervirens `Sapphire` / Blue Oat Grass | 1 gal | 8 |
| IRI COA | Iris douglasiana `Pacific Coast Hybrids` / PCH Iris | 1 gal | 42 |
| LAN ALB | Lantana montevidensis `Alba` / White Trailing Lantana | 5 gal | 9 |
| MAH AQU | Mahonia aquifolium / Oregon Grape | 5 gal | 16 |
| MAH NER | Mahonia nervosa / Oregon Grape | 1 gal | 8 |
| MAH REP | Mahonia repens / Creeping Mahonia | 5 gal | 15 |
| MIM AUR | Mimulus aurantiacus / Sticky Monkey Flower | 5 gal | 6 |
| MUH RIG | Muhlenbergia rigens / Deer Grass | 1 gal | 14 |
| MYR VAR | Myrtus communis `Compacta Variegata` / Variegated Dwarf Myrtle | 5 gal | 6 |
| NEP SIX | Nepeta x faassenii `Six Hills Giant` / Giant Catmint | 1 gal | 22 |
| POL MUN | Polystichum munitum / Western Sword Fern | 5 gal | 42 |
| RHA CAL | Rhamnus californica / California Coffee Berry | 5 gal | 4 |
| RHA SE2 | Rhamnus californica `Seaview Improved` / California Coffee Berry | 5 gal | 11 |
| RIB GLU | Ribes sanguineum glutinosum / Red Flowering Currant | 5 gal | 10 |
| RIB VIB | Ribes viburnifolium / Evergreen Currant | 1 gal | 38 |
| SAL SPA | Salvia spathacea / Hummingbird Sage | 1 gal | 35 |
| VER LIL | Verbena lilacina `De la Mina` / Lilac Verbena | 1 gal | 6 |
| VIO ADU | Viola adunca / Hookedspur Violet | 5 gal | 50 |
| WES WY3 | Westringia fruticosa `Wynabbie Highlight` / Variegated Australian Rosemary | 5 gal | 20 |
| VINE/ESPALIER FIC PU2 | BOTANICAL / COMMON NAME Ficus pumila / Creeping Fig | CONT 15 gal | QTY 7 |
| JAS POL | Jasminum polyanthum / Pink Jasmine | 15 gal | 4 |
| PAR TR2 | Parthenocissus tricuspidata / Japanese Creeper | 15 gal | 4 |
| ROS CCC | Rosa x 'Iceberg Climbing' / Iceberg Climbing Rose | 15 gal | 4 |
| | | | |

PLANT SCHEDULE

| GROUND COVERS | CODE | BOTANICAL / COMMON NAME | CONT | SPACING | <u>QTY</u> | |
|--|---------|----------------------------|-------|----------|------------|-------|
| \(\psi\) \(\ | FES RED | Festuca rubra / Red Fescue | PLUGS | 12" o.c. | 156 | |
| | | | | | | |
| | | 0 | 10 | 20 | 30 | 40 fe |
| | | | | | | |
| | | 1" = 10' | | | | |

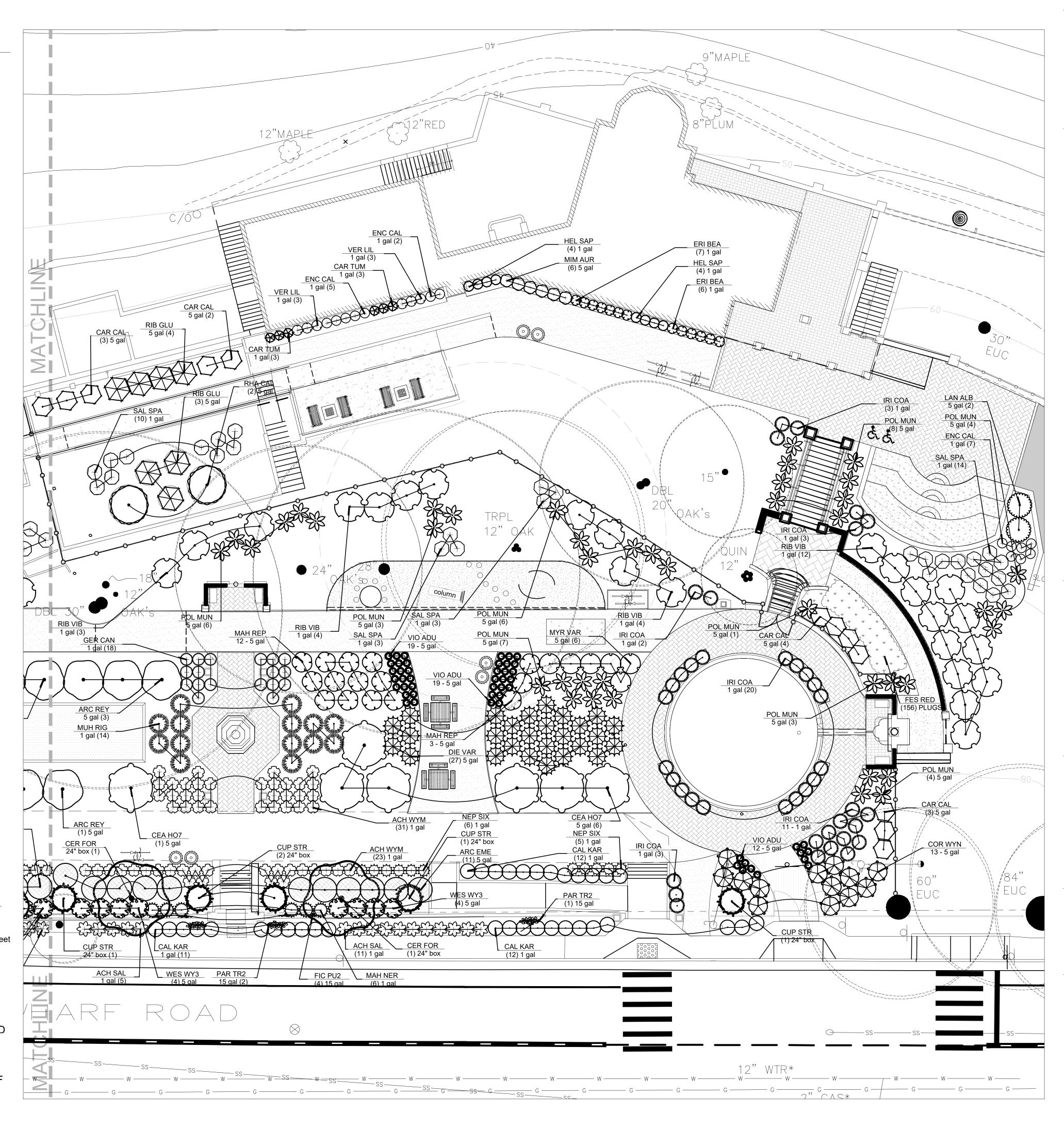
OAK PROTECTION NOTES:

(See Tree protection plan on sheet L2.0)

1. LANDSCAPE CONTRACTOR TO CLEAR ALL IVY ON OAK TREE TRUNKS AND CANOPY.

2. LANDSCAPE CONTRACTOR TO REMOVE ALL IVY PLANTS AND ROOT SYSTEMS WITHIN A TEN FOOT RADIUS OF ALL OAK TREE TRUNKS.

3. NO MECHANICAL TRENCHING OR TILLING WITHIN A TEN FOOT RADIUS OF ANY OAK TREE TRUNK.





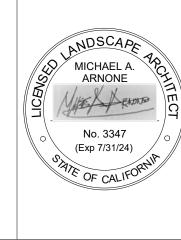
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REVISIONS



PLANTING PLAN SOUTH END

JOB NO. 201503

SCALE 1" = 10' - 0"

DRAWN MA CHECK JC/MA

DATE 2.22.2023

SHEET L- 2.1

SHEET 15 OF 20

PLANT SCHEDULE

| TREES CER FOR | BOTANICAL / COMMON NAME Cercis canadensis `Forest Pansy` TM / Forest Pansy Redbud | CONT 24" box | QTY 4 |
|--------------------------|---|-----------------|------------------|
| CUP STR | Cupressus sempervirens `Stricta` / Columnar Italian Cypress | 24" box | 9 |
| SHRUBS ACH WYM | BOTANICAL / COMMON NAME Achillea millefolium `La Luna` / Yarrow | CONT 1 gal | <u>QTY</u> 54 |
| ACH SAL | Achillea millefolium `Salmon Beauty` / Salmon Beauty Yarrow | 1 gal | 32 |
| AGA SLI | Agapanthus orientalis `Queen Mum` / White Lily of the Nile | 5 gal | 17 |
| ARC EME | Arctostaphylos uva-ursi `Emerald Carpet` / Emerald Carpet Manzanita | 5 gal | 21 |
| ARC REY | Arctostaphylos uva-ursi `Point Reyes` / Kinnikinnick | 5 gal | 11 |
| CAL KAR | Calamagrostis x acutiflora `Karl Foerster` / Feather Reed Grass | 1 gal | 38 |
| CAR TUM | Carex tumulicola / Berkeley Sedge | 1 gal | 6 |
| CAR CAL | Carpenteria californica / Bush Anemone | 5 gal | 12 |
| CEA HO7 | Ceanothus griseus horizontalis `Carmel Creeper` / Carmel Creeper | 5 gal | 7 |
| COR PUL | Correa pulchella / Australian Fuchsia | 5 gal | 48 |
| COR WYN | Correa x `Wyn`s Wonder` / Variegated Australian Fuchsia | 5 gal | 13 |
| DIE VAR | Dietes vegeta `Variegata` / Variegated African Iris | 5 gal | 27 |
| ENC CAL | Encelia californica / California Encelia | 1 gal | 14 |
| ERI BEA | Erigeron glaucus / Beach Daisy | 1 gal | 13 |
| GER CAN | Geranium x cantabrigiense `Biokovo` / Biokovo Cranesbill | 1 gal | 18 |
| HEL SAP | Helictotrichon sempervirens `Sapphire` / Blue Oat Grass | 1 gal | 8 |
| IRI COA | Iris douglasiana `Pacific Coast Hybrids` / PCH Iris | 1 gal | 42 |
| LAN ALB | Lantana montevidensis `Alba` / White Trailing Lantana | 5 gal | 9 |
| MAH AQU | Mahonia aquifolium / Oregon Grape | 5 gal | 16 |
| MAH NER | Mahonia nervosa / Oregon Grape | 1 gal | 8 |
| MAH REP | Mahonia repens / Creeping Mahonia | 5 gal | 15 |
| MIM AUR | Mimulus aurantiacus / Sticky Monkey Flower | 5 gal | 6 |
| MUH RIG | Muhlenbergia rigens / Deer Grass | 1 gal | 14 |
| MYR VAR | Myrtus communis `Compacta Variegata` / Variegated Dwarf Myrtle | 5 gal | 6 |
| NEP SIX | Nepeta x faassenii `Six Hills Giant` / Giant Catmint | 1 gal | 22 |
| POL MUN | Polystichum munitum / Western Sword Fern | 5 gal | 42 |
| RHA CAL | Rhamnus californica / California Coffee Berry | 5 gal | 4 |
| RHA SE2 | Rhamnus californica `Seaview Improved` / California Coffee Berry | 5 gal | 11 |
| RIB GLU | Ribes sanguineum glutinosum / Red Flowering Currant | 5 gal | 10 |
| RIB VIB | Ribes viburnifolium / Evergreen Currant | 1 gal | 38 |
| SAL SPA | Salvia spathacea / Hummingbird Sage | 1 gal | 35 |
| VER LIL | Verbena lilacina `De la Mina` / Lilac Verbena | 1 gal | 6 |
| VIO ADU | Viola adunca / Hookedspur Violet | 5 gal | 50 |
| WES WY3 | Westringia fruticosa `Wynabbie Highlight` / Variegated Australian Rosemary | 5 gal | 20 |
| VINE/ESPALIER FIC PU2 | BOTANICAL / COMMON NAME Ficus pumila / Creeping Fig | CONT 15 gal | QTY 7 |
| JAS POL | Jasminum polyanthum / Pink Jasmine | 15 gal | 4 |
| PAR TR2 | Parthenocissus tricuspidata / Japanese Creeper | 15 gal | 4 |
| ROS CCC | Rosa x 'Iceberg Climbing' / Iceberg Climbing Rose | 15 gal | 4 |
| | | | |

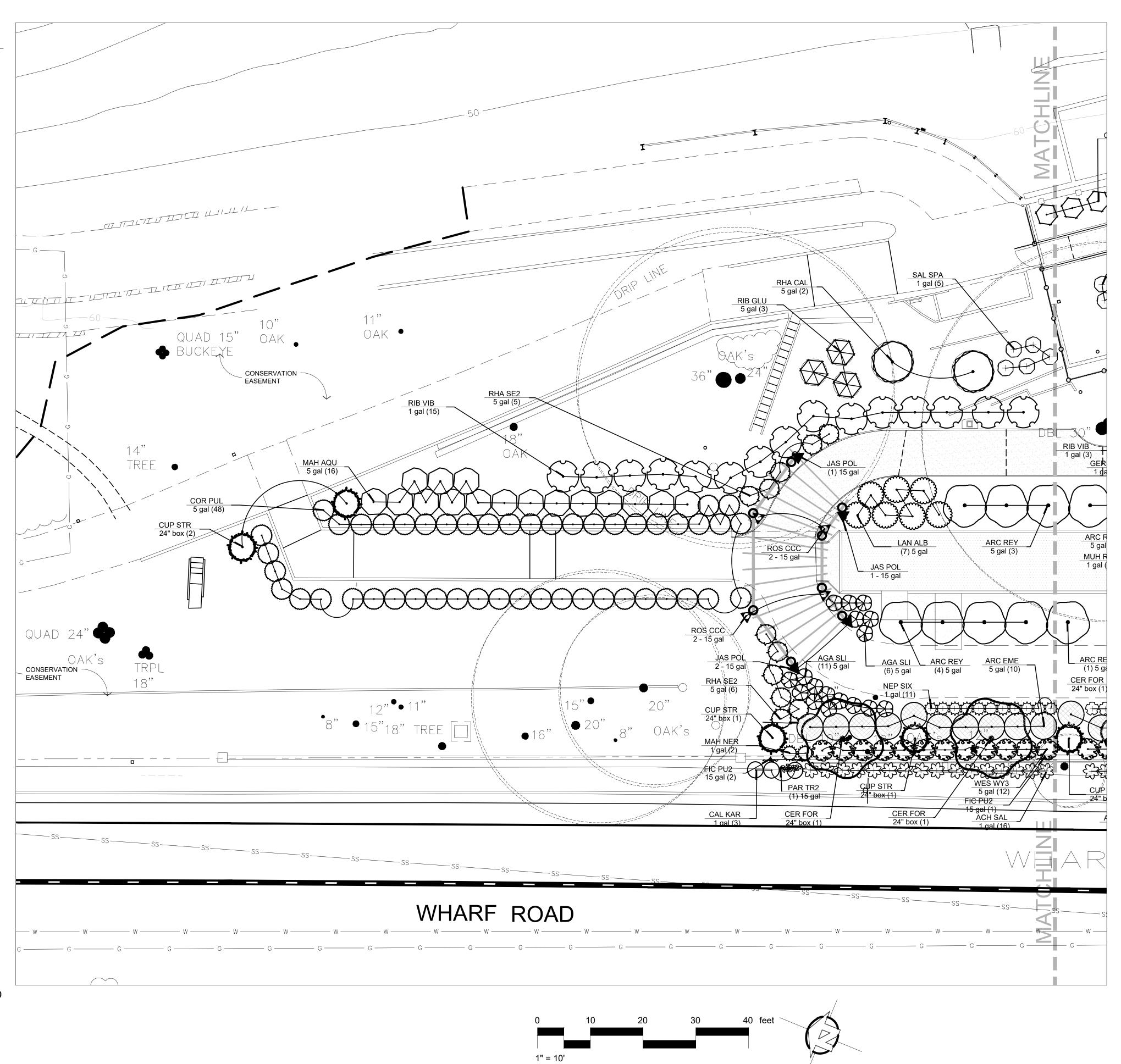
PLANT SCHEDULE

| GROUND COVERS | CODE | BOTANICAL / COMMON NAME | CONT | SPACING | QTY |
|--|---------|----------------------------|-------|----------|-----|
| \(\psi\) \(\ | FES RED | Festuca rubra / Red Fescue | PLUGS | 12" o.c. | 156 |

OAK PROTECTION NOTES:

- (See Tree protection plan on sheet L2.0)
- 1. LANDSCAPE CONTRACTOR TO CLEAR ALL IVY ON OAK TREE TRUNKS AND CANOPY.
- 2. LANDSCAPE CONTRACTOR TO REMOVE ALL IVY PLANTS AND ROOT
- SYSTEMS WITHIN A TEN FOOT RADIUS OF ALL OAK TREE TRUNKS.
- 3. NO MECHANICAL TRENCHING OR TILLING WITHIN A TEN FOOT RADIUS OF

ANY OAK TREE TRUNK.





RISPIN MANSION alifornia Clares and apitola, Road Wharf

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REVISIONS



PLANTING PLAN NORTH END

JOB NO. 201503

SCALE 1" = 10' - 0"

DATE 2.22.2023

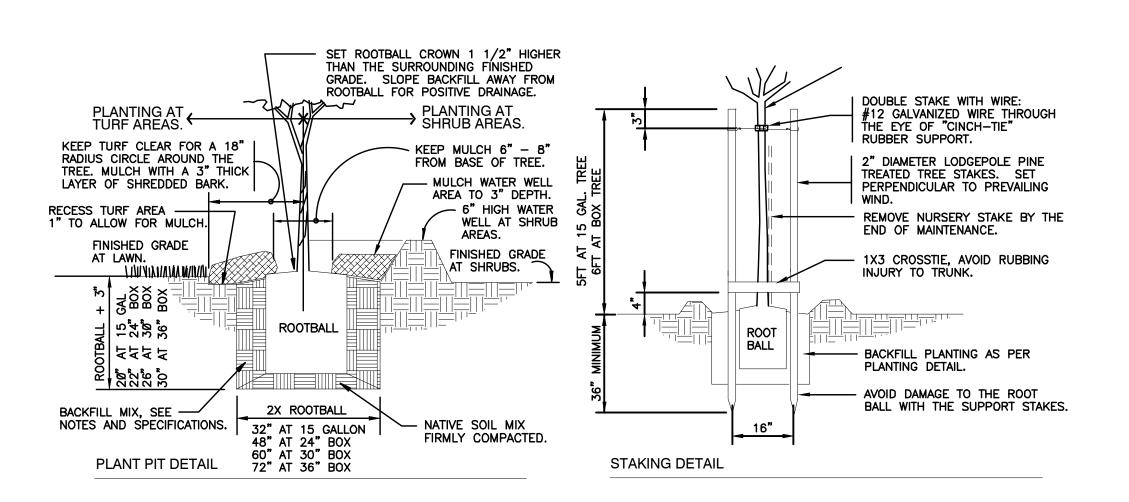
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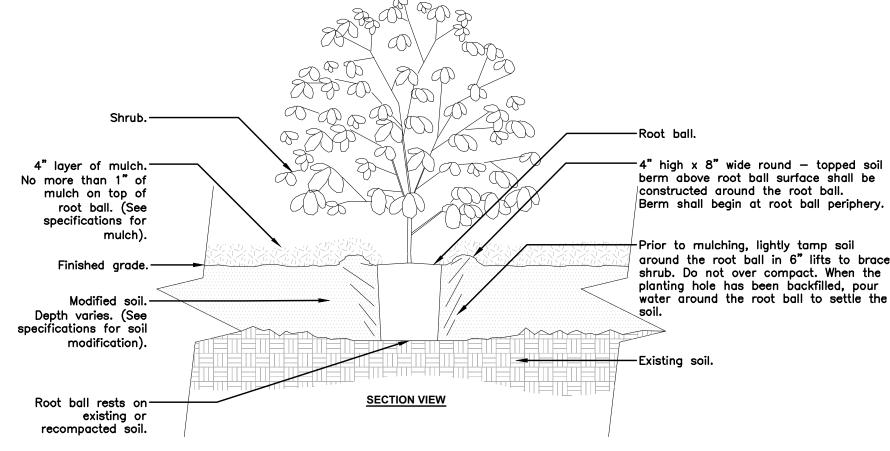
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SHEET

L- 2.2

SHEET 16 OF 20





1- Shrubs shall be of quality prescribed in the root observations detail and specifications.

2- See specifications for further requirements related to this detail

URBAN TREE FOUNDATION © 2014 OPEN SOURCE FREE TO USE SHRUB - MODIFIED SOIL 2 3/4" = 1'-0"

424 AIRPORT BOULEVARD

831/722-5053

WATSONVILLE, CA 95076

Telephone 831/722-7606

FX-PL-FX-SHRB-03

ean nursery stake against the wall. Stake to be removed at the end of the maintenance (warranty) period after the vine has attached to the wall. x 8" wide round - topped soil berm above root ball surface shall be constructed around the root ball. Berm shall begin at root ball periphery. Prior to mulching, lightly tamp soil around the root ball in 6" lifts to brace shrub. Do not over compact When the planting hole has been backfilled, pour " layer of mulch. No more than 1" of mulch on the top of the root ball. (See specifications for Modified soil. Depth varies. (See specifications for soil modification). Root ball rests on existing or recompacted soil.

1- Vines shall be of quality as prescribed in the root observations detail and specifications.

TREE DOUBLE STAKE PLANTING

2- See specifications for further requirements related to this detail

VINE - MODIFIED SOIL 1/2" = 1'-0"

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OAK PROTECTION NOTES:

- (See Tree protection plan on sheet L2.0)
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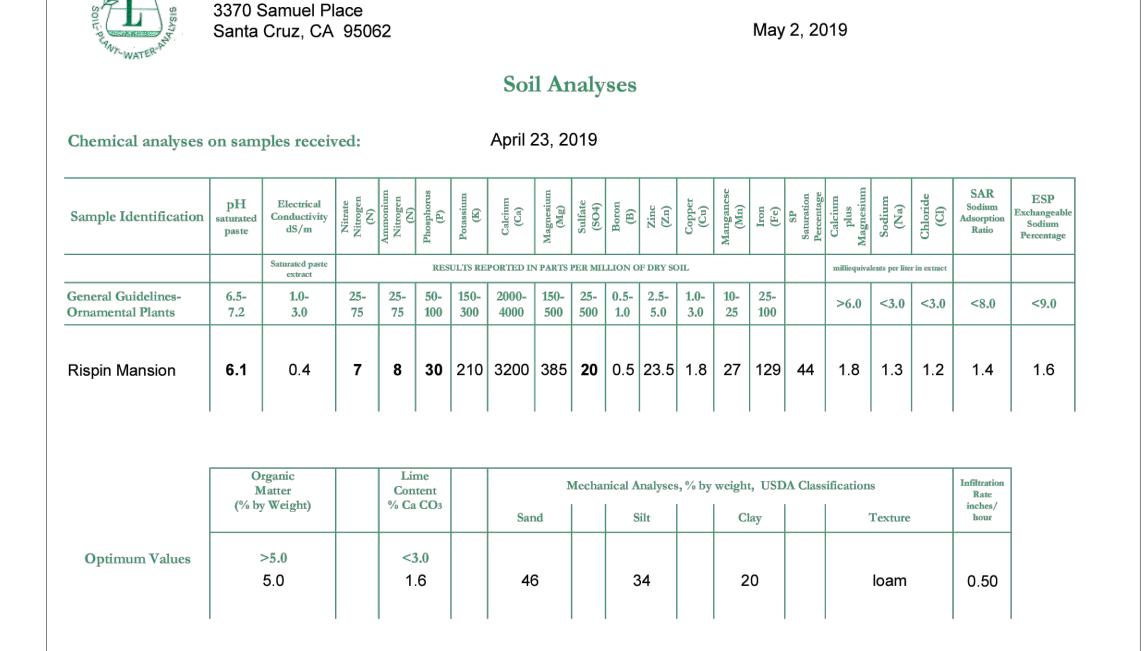
| Modified soil. Dep | pth varies. (See r soil modification). |
|---|---|
| Existing soil. | , , , , , , , , , , , , , , , , , , , |
| SECTION VIEW | |
| Groundcover plants to be triangularly spaced. Mulch. | |
| Pavement. | |
| PLAN tes: See planting legend for groundcover species, size, and spacing dimension. Small roots (¼" or less) that grow around, up, or down the root ball periphery are considermal condition in container production and are acceptable however they should be eliminated the of planting. Roots on the periperhy can be removed at the time of planting. (See root be Settle soil around root ball of each groundcover prior to mulching. | at the |
| GROUNDCOVER | URBAN TREE FOUNDATION © 2014 OPEN SOURCE FREE TO USE |
| 4 3/4" = 1'-0" | FX-PL-FX-GROU-01 |

PERRY LABORATORY

HORTICULTURAL ADVISING AND TESTING

Michael Arnone

FX-PL-FX-TREE-11



SERVING AGRICULTURE SINCE 1938

PLANTING NOTES

1. All existing trees, shrubs and ground covers to remain shall be protected. Any damage caused by Contractor's work shall be repaired or replaced at the Contractor's expense and be approved by the Landscape Architect. Contractor shall refer to attached arborist report for protection of existing oaks during construction.

2. Contractor to remove Ivy from all trunks and branches of Oak trees to

3. In areas outside of Oaks canopy (dripline), if topsoil is intact, spread 1-2 inches of STA certified compost (U.S. Composting Council's (USCC) Seal of Testing Assurance (STA) Program) over surface of soil and incorporate into top 6 inches of planting area. If topsoil has been scraped and stored, mix one cubic yard of compost to 3-5 cubic yards of topsoil before re-spreading. Refer to soil report by Peryy Labs on this sheet for additional amendments.

4. After amending soil, grade all areas smooth with no localized depressions exceeding .5 inch. All areas shall surface drain with 1.5 percent minimum slope away from all buildings, paving or other structures.

5. Quantities are for aiding in bidding only. Contractor shall verify all

6. Contractor shall lay out plant material as per plan and receive approval from Landscape Architect prior to installation.

7. No plants shall be planted with root balls or new pits in a dry condition. 8. Plant all plants as per planting details in square pits with sides and bottoms thoroughly scarified. Do not amend backfill mix beyond initial topsoil amending unless noted.

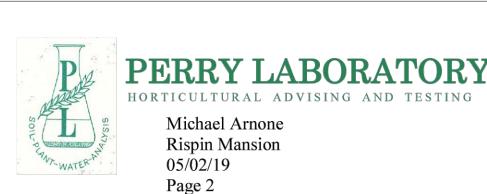
9. All newly planted material shall be watered by deep soaking within 3 hours

10. All planting areas shall receive 2 to 3 inches of fine grind bark top dressing (mulch).

12. Contractor shall be responsible for irrigating all new plant material until the entire project as been approved and accepted by Owner.

13. Thirty days after planting Contractor shall re-stake and straighten all trees as necessary to be approved by Landscape Architect.

14. Fill square plant containers with 12" depth of Topsoil Blend, fill tall urn plant containers with 18" depth of Topsoil Blend. Available from Central Home Supply (or equal). Leave 2" clear at top. Fill remainder of containers with $\frac{3}{4}$ " drain rock.



The pH value of this soil moderately acid in reaction and is satisfactory at this time. The concentrations of soluble salt are safely low. The fertility analysis shows low nitrogen, phosphorus, and sulfate at this time. The potassium, calcium, magnesium, boron, zinc, copper, manganese and iron levels are in satisfactory to high ranges.

The sodium and chloride levels are low and will not cause toxicity problems. The low ESP value indicates that the sodium that is present will not create a hazard to the soil structure.

The organic matter content is satisfactory at this time. The free lime content is safely low. The mechanical analysis indicates this is a loam soil in texture. A loam soil generally has a satisfactory infiltration rate of 0.50 inches per hour.

Preplanting should consist of adding the following fertilizer materials per 1000 sq ft of bed area:

| Calcium carbonate lime | 50.0 lbs |
|------------------------|----------|
| Gypsum | 25.0 lbs |
| Feather meal (12-0-0) | 35.0 lbs |
| Bone Meal (3-15-0) | 50.0 lbs |

The above amendments should be thoroughly incorporated into the upper 6-8" of the soil profile.

If you have any questions, please give me a call.

Respectfully submitted,

Clifford B. Low, M.S.

424 AIRPORT BLVD WATSONVILLE, CA 95076 TELEPHONE 831/722-7606 FAX 831/722-5053 www.perrylaboratory.com



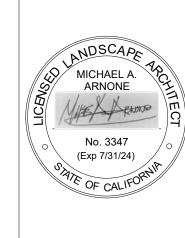
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REVISIONS



PLANTING NOTES & DETAILS

JOB NO. 201503

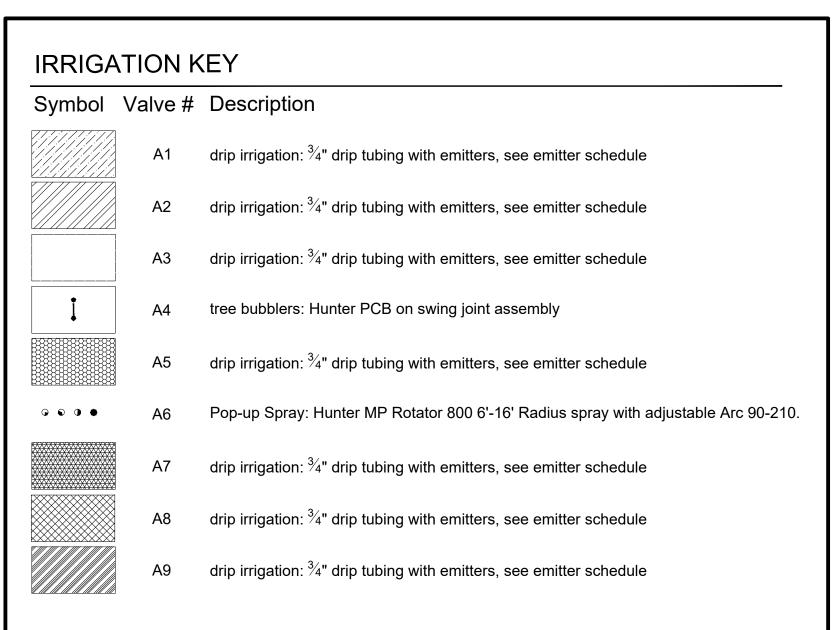
SCALE as shown

DRAWN MA CHECK JC/MA

DATE 2.22.2023 SHEET

L- 2.3

SHEET 17 OF 20

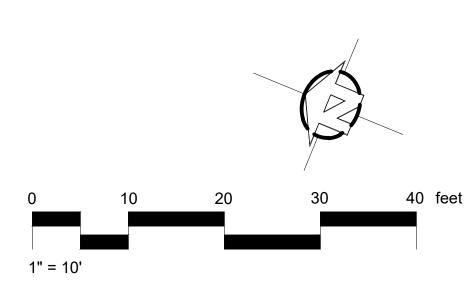


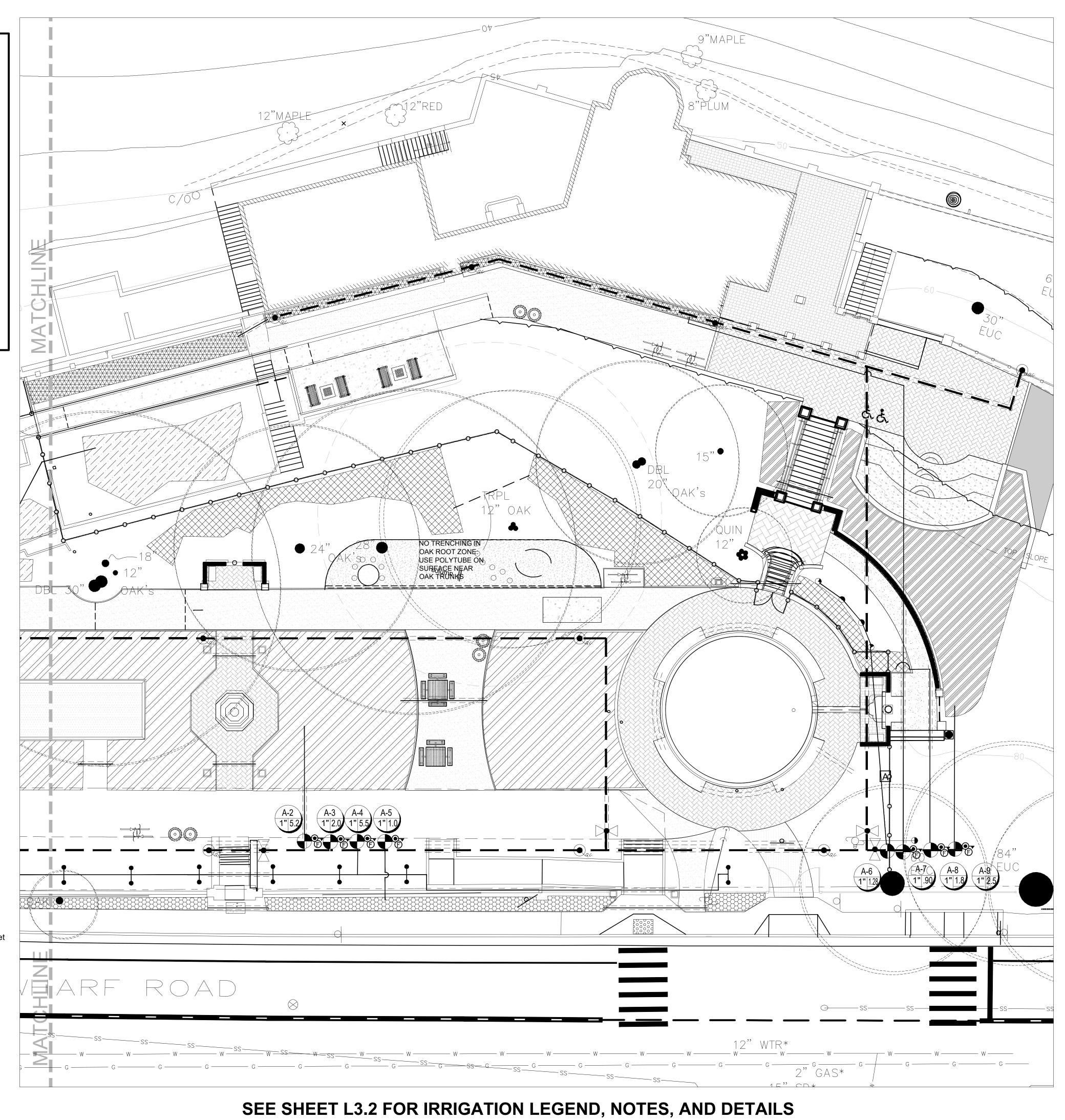
NOTE:

IRRIGATION VALVES SHOWN IN PATHS FOR GRAPHIC CLARITY. IRRIGATION VALVES TO BE LOCATED IN PLANTING AREAS. LATERALS THAT MUST RUN UNDER PAVING SHALL HAVE 3" DIAMETER PVC SLEEVES, SEE IRRIGATION NOTES ON SHEET L-3.2.

OAK PROTECTION NOTES:
(See Tree protection plan on sheet L2.0)

1. NO MECHANICAL TRENCHING OR TILLING WITHIN A TEN FOOT RADIUS OF ANY OAK TREE TRUNK.





Michael Arnone + Associates LANDSCAPE ARCHITECTURE

THE PARK AT RISPIN MANSION Wharf Road and Clares Stree Capitola, California

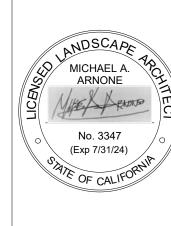
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RESPONSIBILITY WITHOUT LIABILITY TO THE LANDSCAPE ARCHITECT

REVISIONS



IRRIGATION PLAN SOUTH END

JOB NO. 201503

SCALE 1" = 10' - 0"

DRAWN MA

 CHECK
 JC/MA

 DATE
 2.22.2023

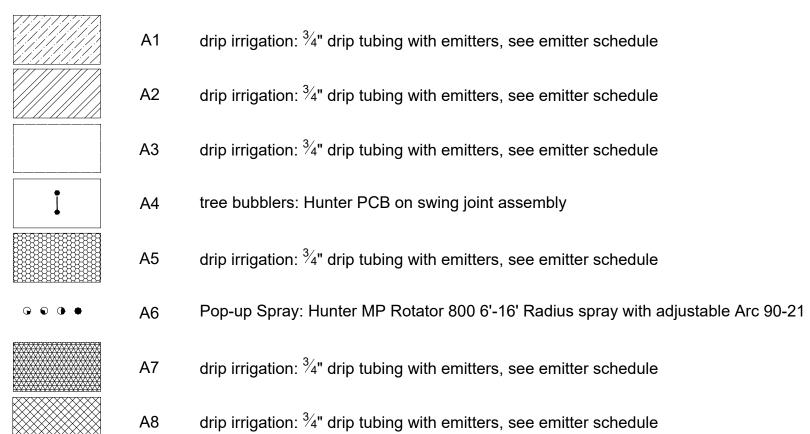
SHEET

L-3.0

SHEET 18 OF 20

IRRIGATION KEY

Symbol Valve # Description

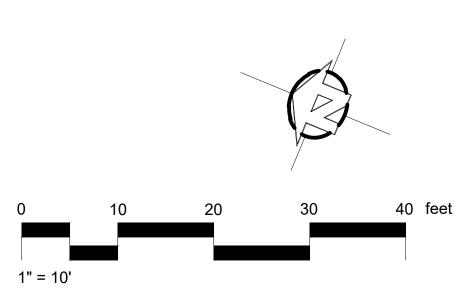


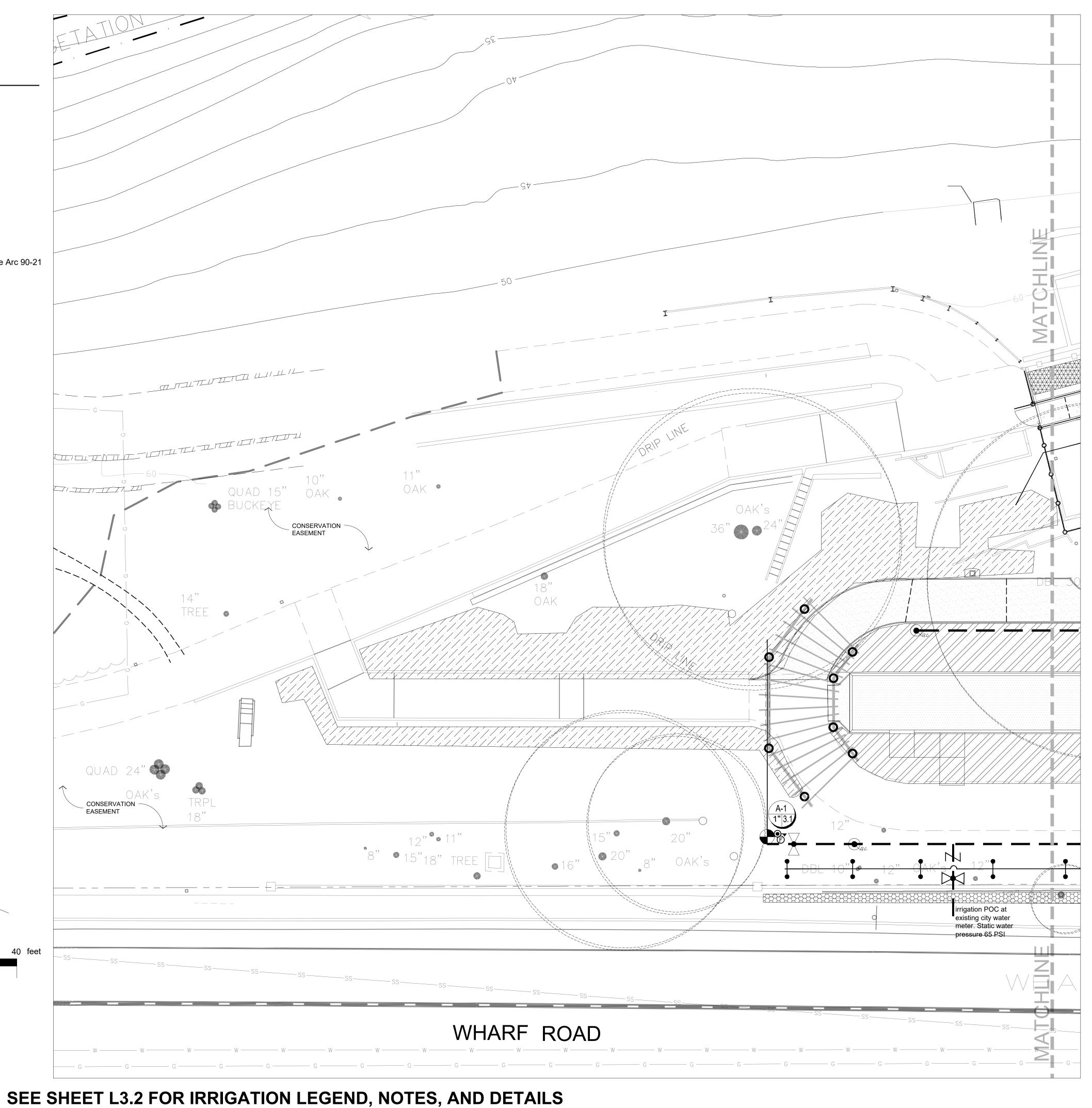
drip irrigation: 3/4" drip tubing with emitters, see emitter schedule

NOTE:

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OAK PROTECTION NOTES:
(See Tree protection plan on sheet L1)
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Michael Arnone + Associates
LANDSCAPE ARCHITECTURE

RISPIN MANSION PARK Wharf Road and Clares Street Capitola, California

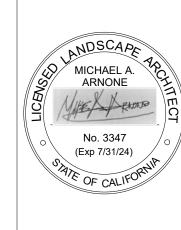
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REVISIONS



IRRIGATION PLAN NORTH END

JOB NO. 201503

SCALE 1" = 10' - 0"

DRAWN MA

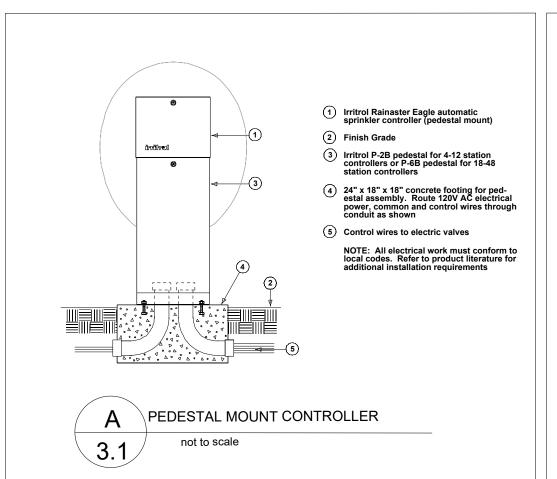
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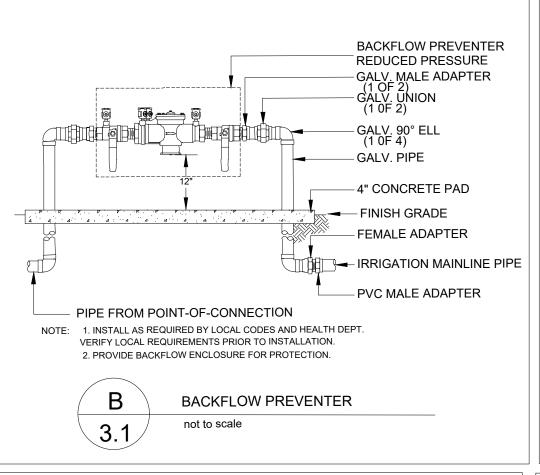
DATE 2.22.2023

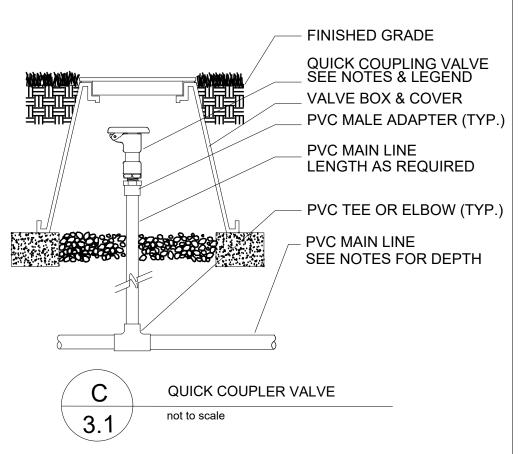
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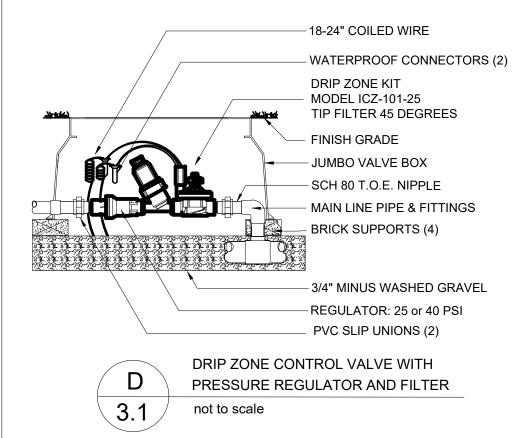
L-3.1

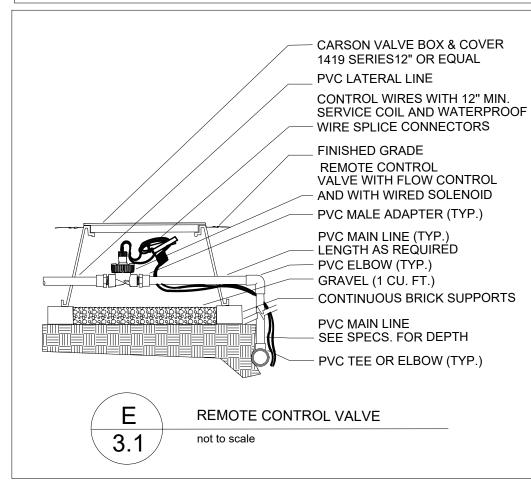
SHEET 19 OF 20

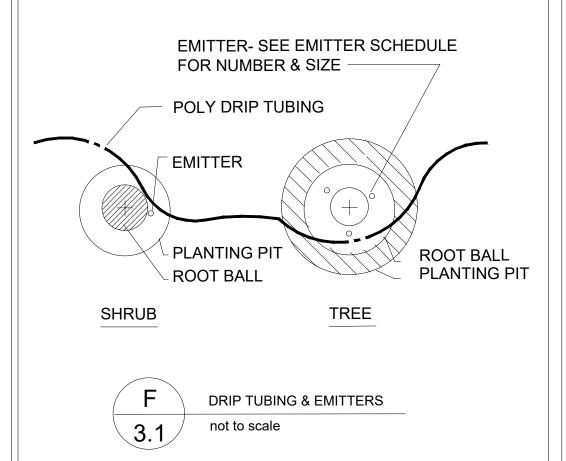


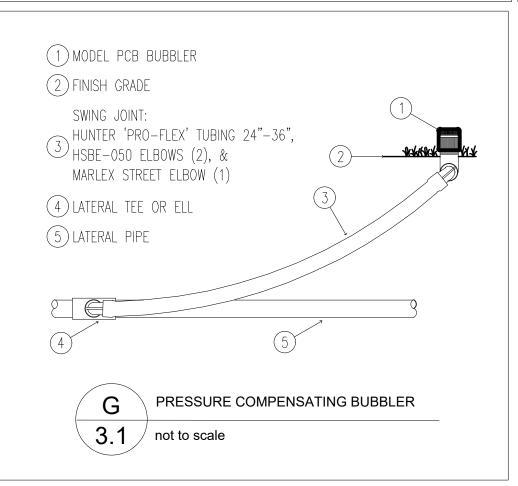


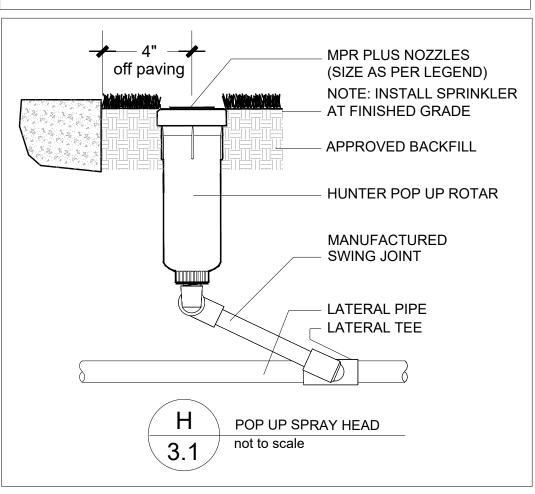












DETAIL

| Symbol | Valve # | Description |
|--------|---------|-------------------------|
| | Δ1 | drip irrigation: 3/4" d |

IRRIGATION KEY

A1 drip irrigation: $\frac{3}{4}$ " drip tubing with emitters, see emitter schedule

A2 drip irrigation: $\frac{3}{4}$ " drip tubing with emitters, see emitter schedule

A3 drip irrigation: $\frac{3}{4}$ " drip tubing with emitters, see emitter schedule

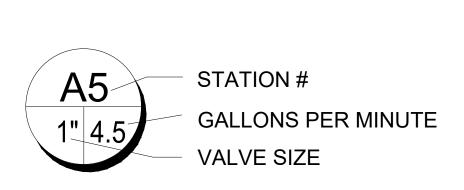
A4 tree bubblers: Hunter PCB on swing joint assembly

A5 drip irrigation: $\frac{3}{4}$ " drip tubing with emitters, see emitter schedule

A6 Pop-up Spray: Hunter MP Rotator 800 6'-16' Radius spray with adjustable Arc 90-210.

A7 drip irrigation: $\frac{3}{4}$ " drip tubing with emitters, see emitter schedule

A8 drip irrigation: $\frac{3}{4}$ " drip tubing with emitters, see emitter schedule



drip irrigation: ³/₄" drip tubing with emitters, see emitter schedule

IRRIGATION LEGEND

| IL KEY | MANUFACTURER | MODEL # | DESCRIPTION |
|-------------------------------|---------------------------------------|---|--|
| | Sch. 40 PVC | NSF Approved | 1 1/2" Irrigation Mainline |
| | Class 315 PVC | NSF Approved | 3/4" Irrigation Lateral or as required |
| | Sch 40 PVC | NSF Approved | 3" IRRIGATION SLEEVE UNDER PAVING |
| A | IRRITROL | RME-18EG-SPED-T | RAINMASTER EAGLE 18 STATION CONTROLLER PEDESTAL MOUNT IN LARGE STAINLESS BOX |
| | IRRITROL | RS-1000 | WIRELESS RAIN SENSOR |
| \sim | Febco | 825 Y BV | 1" Reduced Pressure Backflow Device |
| | Spears Compact | 1" BALL VALVE | 1" PVC BALL VALVE FOR MAINLINE |
| Qc. | RAINBIRD | 33 DLRC | 3/4" Quick coupler with locking cover |
| | HUNTER | ICZ - 101-25 | 1" PGV valve with 1" HY075 filter and 3/4" outlet 25 PSI regulator |
| | HUNTER | PGV - 101G | 1" ELECTRIC CONTROL GLOBE VALVE WITH PRESSURE REGULATOR |
| irrigation hydrozone hatch | RAINBIRD | 3/4" Polyethylene | 3/4" drip tubing |
| patterii | Ewing | PRESSURE COMPENSATING | 1/2 GPH (RED), 1 GPH (BLACK), 2 GPH (GREEN) ISO-FLO EMITTER |
| | EWING | POLY END CAP | REMOVABLE DRIP END CAP ASSEMBLY |
| ••• | HUNTER | PCB-25 | .25 GPM PRESSURE COMPENSATING BUBBLER ON SWING JOINT W/ PRO-FLEX HOSE |
| → → → MP1 MP1 MP1 | HUNTER | MP ROTATOR 800 | 6" pop up spray head at 40 p.s.i. with MP 800 Rotator Nozzle adjust arc as needed, adjust radius between 6' and 16' as needed |
| | A A A A A A A A A A A A A | Sch. 40 PVC Class 315 PVC Sch 40 PVC A IRRITROL IRRITROL Febco Spears Compact Spears Compact HUNTER HUNTER HUNTER Ewing EWING HUNTER HUNTER | Sch. 40 PVC Class 315 PVC NSF Approved Sch 40 PVC NSF Approved NSF App |

| EMITTER S | CHEDULE | - | |
|------------------|---------|------------------|-------------------------------------|
| Manufacturer | Model # | Gallons per Hour | Emitters per container size |
| RAINBIRD XB-05PC | BLUE | One Half | 1 emitter per each 4" pot |
| RAINBIRD XB-10PC | BLACK | One Half | 2 emitters per each gallon plant |
| RAINBIRD XB-20PC | RED | One | 2 emitter per each 5 gallon plant |
| RAINBIRD XB-20PC | RED | Two | 3 emitters per each 15 gallon plant |
| RAINBIRD XB-20PC | RED | Two | 6 emitters per each 24" box |

OAK PROTECTION NOTES:

(See Tree protection plan on sheet L2.0)

1. NO TRENCHING OR TILLING WITHIN A TEN FOOT RADIUS OF ANY OAK TREE TRUNK.

IRRIGATION NOTES

- 1. Contractor shall notify U.S.A. (Underground Service Alert) at 811, prior to start of any excavation or trenching.
- 2. Contractor shall review all Civil, Structural, and Mechanical plans and documents pertaining to the project prior to the start of work to coordinate work with other trades.
- 3. Contractor shall install irrigation system inaccordance with all local codes and ordinances.
- 4. Tree bubbler valves have been designed to operate at a maximum of 11 gallons per minute at 20 PSI static pressure. Drip valves have been designed to operate at a maximum of 4 gallons per minute at 20 PSI static pressure. Irrigation contractor shall verify a static pressure of at least 55 PSI at the point of connection prior to the installation of the irrigation system. Should the PSI or the GPM be insufficient to operate either system, contractor shall notify landscape architect and request review of design.
- 5. Point of connection shall be taken from city water service as shown on the plans. The contractor shall install new backflow device, shut-off valves, mainline, quick-coupler devices, controller and valves as noted on plan. See Irrigation Legend.
- 6. Controller shall be mounted on pedestal along the east/west section of fence in planting area between reflecting pool and service driveway from Wharf Road. Programming of the controller shall be the responsibility of the contractor for a period of thirty days after acceptance of work. All electrical connections for the controller shall be installed by a licensed electrical contractor. All work shall comply with the most current standards and codes at the time of installation. The wireless rain sensor shall be mounted on the wall behind water feature within 40' of the controller as per manufacturer's instructions.
- 7. Irrigation design is diagrammatic. Mainline, valves, laterals and other irrigation equipment may be shown outside of planting beds for graphic clarity. All irrigation equipment shall be located in adjacent planting beds.
- 8. Irrigation pipe depths: Mainlines under paving shall have 24" cover over pipes. Lateral lines under paving shall have
- 18" cover over pipes. Sleeves shall be located as per plan. Mainlines in planting beds shall have 12" of cover over pipes. Laterals in planting beds shall have 12" cover over pipes.
- 9. Lateral lines (non pressure lines) sizing guidelines shall be as follows: 3/4" O.D. 0 to 10 GPM; 1" O.D. 11 to 15 GPM; 1 1/4" O.D. 16 to 25 GPM; 1 1/2" O.D. 26 to 30 GPM; 2" O.D. 31 to 55 GPM. Refer to Irrigation Legend and plan sheets for further data.
- 10. Control wires shall be 14 gauge UF direct burial wire. Use red for control wire and white for common wire. Contractor shall run one spare common and one spare control wire to each of the end valves. All low voltage wire connections shall be made only at remote control boxes. All connections shall be made with a 2' coil of wire for service. Connections shall be made with RainBird 'Snap-Tite' connectors or equal.
- 11. Contractor shall determine the number and location of drip emitters based on the plant counts, plant container size and actual plant locations in the field. Contractor shall adjust all drip distribution tubing to effectively irrigate all plant material.
- 12. Contractor shall provide a minimum of one drip end cap assembly per drip zone for ease of flushing system.

IRRIGATION SCHEDULING AND MAINTENANCE

- Irrigation will be avoided rainy weather.
- 2. Irrigation schedule shall be reduced (frequency and duration) after plants are established (1 year).
- 3. Irrigation schedule shall be adjusted seasonally based on plant needs.4. Irrigation schedule provided to appropriate personnel and posted near
- irrigation controller.

 5. Irrigation system to be inspected regularly and maintained in good
- working condition.

 6. Repairs to be made using identical or improved parts.
- 7. Landscape maintenance schedule to be followed.



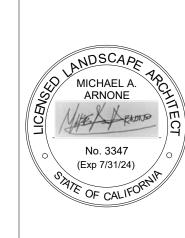
RISPIN MANSION PARK Wharf Road and Clares Street Capitola, California

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OWNER SHALL ASSUME RESPONSIBILITY FOR COMPLIANCE WITH ALL EASEMENTS, SETBACK REQUIREMENTS AND PROPERTY LINES. OWNER SHALL ACQUIRE ALL NECESSARY PERMITS REQUIRED TO PERFORM WORK SHOWN ON PLANS. BASE INFORMATION HAS BEEN PROVIDED BY THE OWNER. MICHAEL ARNONE LANDSCAPE ARCHITECTURE ASSUMES NO LIABILITY FOR THE ACCURACY OF SAID PROPERTY LINE BOUNDARIES, FENCE LINES OR PROPERTY CORNERS.

REVISIONS



IRRIGATION NOTES & DETAILS

JOB NO. 201503

SCALE as noted DRAWN MA

CHECK JC/MA

DATE 2.22.2023 **SHEET**

L- 3.2

SHEET 20 OF 20

SYMBOLS STANDARD CONCENTRIC REDUCER STANDARD ECCENTRIC REDUCER (TOP FLAT) STANDARD ECCENTRIC REDUCER (BOTTOM FLAT) BUTTERFLY VALVE SILENCE CHECK VALVE BALL VALVE NEEDLE VALVE BALL CHECK VALVE SOLENOID VALVE END CAP PIPE OPEN PIPE TERMINATION ISOLATING VALVE TAG NO NO = NORMALLY OPEN NC = NORMALLY CLOSED T - 2 THROTTLING VALVE TAG DRAIN VALVE TAG. WATER PROOF DOUBLE WALL OUTLET (20A) CLEANOU GAUGE (P) PRESSURE: 0 - 60 PSI (V) COMPOUND: 30" 0 - 15 PSI FLOW METER FLOOR DRAIN WYE STRAINER HOSE BIB JET NOZZLE ANTI-VORTEX PLATE OVERFLOW STANDPIPE DRAIN WITH PLUG EYEWASH STATION SPA JET WALL INLET FITTING FLOOR INLET FITTING PIPING MATERIALS: WALL EQUALIZER FITTING WALL LIGHT FLOOR JUNCTION BOX WALL JUNCTION BOX SUBMERSIBLE JUNCTION BOX RETURN PIPING **POOL PIPING PLAN** SKIMMER PIPING DRAIN PIPING PH TUBING CHLORINE TUBING AIR PIPING JET PIPING

GENERAL NOTES AND SPECIFICATIONS

- A ALL PIPE MATERIALS SHALL CONFIRM TO THE SPECIFICATIONS AND BE INSTALLED AS PER MANUFACTURER'S PROCEDURES AND LOCAL CODES.
- VERIFY THE EXACT LOCATION OF THE EQUIPMENT PIT AND WATER FEATURES WITH THE LANDSCAPE AND ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL BE LICENSED, HAVE AT LEAST 10 YEARS OF EXPERIENCE IN WATER FEATURES AND SUBMIT AT LEAST FIVE REFERENCES.
- CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE EXACT PIPE ROUTING BASED ON THE SITE CONDITIONS TO AVOID CONFLICT. ALSO COORDINATE WITH OTHER TRADES.
- CONTRACTOR SHALL CONTACT THE WATER FEATURE DESIGNER IN THE CASE OF ANY DEVIATION FROM THE DRAWINGS PRIOR TO PROCEED.
- ALL PIPING BETWEEN THE EQUIPMENT PIT AND THE WATER FEATURES MUST BE INSTALLED DEAD LEVEL
- PROVIDE LINK SEAL, WATER STOP OR FLASHING FLANGES WHERE APPROPRIATE AND APPROVED BY THE STRUCTURAL ENGINEER.
- PIPING MUST MAINTAIN AT LEAST 4" CLEARANCE BETWEEN PIPES EITHER PARALLEL OR CROSSING.
- CONTRACTOR SHALL PROVIDE DRAIN VALVES, AIR VENTS AND AIR RELIEF VALVES WHERE APPROPRIATE AND EXTEND PIPING TO THE CLOSEST FLOOR DRAIN.
- CONTRACTOR SHALL PROVIDE UNIONS, FLANGES WHERE SHOWN IN THE DRAWINGS AND NECESSARY TO FACILITATE THE REMOVAL OF EQUIPMENT.
- CONTRACTOR SHALL PROVIDE PIPE HANGERS AND SUPPORTS AS REQUIRED.
- CONTRACTOR SHALL PROVIDE NAME TAGS FOR ALL EQUIPMENT AND VALVES.
- CONTRACTOR SHALL PROVIDE (SINGLE PACKAGE) SUBMITTAL DATA OF ALL
- ITEMS FOR APPROVAL BEFORE ANY EQUIPMENT PURCHASE. CONTRACTOR SHALL PROVIDE DIMENSIONAL INSTALLATION SHOP DRAWINGS (PIPE ROUTING, EQUIPMENT ROOM LAYOUT, DETAIL ELECTRICAL DISTRIBUTION) FOR APPROVAL BEFORE COMMENCING ANY

CODES AND STANDARDS:

WORK.

- A ALL WORK SHALL COMPLY WITH LOCAL CODES AND PRACTICES
- IBC, INTERNATIONAL BUILDING CODE.
- IPC, INTERNATIONAL PLUMBING CODE.
- NEC. NATIONAL ELECTRICAL CODE.
- NEMA ENCLOSURES.
- UL, UNDERWRITERS LABORATORY.
- ASTM FOR ALL PIPIES AND FITTINGS.
- ANSI FOR ALL FLANGES.
- ASME FOR PRESSURE VESSELS.
- NFPA FOR GAS FUILED HEATERS.
- NFGC, NATIONAL FUEL GAS CODE.
- CEC. CALIFORNIA ENERGY COMMISSION.
- CBC, CALIFORNIA BUILDING CODE.

PVC PIPE AND FITTINGS: SCHEDULE 40 PIPE AND SCHEDULE 80 FITTING ASTM D1784 CELL CLASS 12454 FOR SWIMMING POOL SYSTEM.

COPPER PIPE AND FITTINGS TYPE 'L' EAMLESS TUBING ASTM B 88, LEAD FREE IN THE CITY WATER SUPPLY

VALVES:

UP TO 2.5" DIAMETER SHALL BE PVC SCHEDULE 80 TRUE UNION BALL VALVE. 3" DIAMETER AND LARGER SHALL BE SEMI-LUG PVC SCHEDULE 80 BUTTERFLY VALVE. ALL VALVES SHALL BE WITH EPDM SEAT.

VALVE STADARDS:

- A FOR SHUT OFF: LEVEL TYPE.
- B. FOR THROTTLING: GEAR OPERATOR TYPE.

SECTION 13 12 11 FOUNTAIN ELECTRICAL

1.1 DESCRIPTION OF WORK

- A. FURNISH ALL LABOR, MATERIALS, APPARATUS, TOOLS, EQUIPMENT, TRANSPORTATION, TEMPORARY CONSTRUCTION, AND SPECIAL OR OCCASIONAL SERVICES AS REQUIRED TO MAKE A COMPLETE WORKING ELECTRICAL INSTALLATION. AS SHOWN ON THE DRAWINGS AND DESCRIBED IN THESE SPECIFICATIONS.
- **B. CONTRACTOR'S QUALIFICATION:**
- 1. CONTRACTOR SHALL HAVE AT LEAST 10 YEARS OF PROVEN EXPERIENCE IN WORKING IN SWIMMING POOL. SPA PROJECT.

C. WORK INCLUDED:

- 2. ELECTRICAL DISTRIBUTION AND CONTROL SYSTEM INCLUDING MOTOR STARTERS. TRANSFORMER PANELBOARD, BRANCH CIRCUITS, GROUNDING SYSTEM, WATER LEVEL CONTROLLERS, TIME SWITCHES. RELAYS, AND RELATED CONDUIT AND WIRE.
- 1. ELECTRICAL SUPPORTING DEVICES FOR SUSPENSION AND SUPPORT OF CONDUIT AND EQUIPMENT.
- 2. CONCRETE HOUSEKEEPING PADS AS REQUIRED AND AS INDICATED ON THE DRAWINGS
- D. RELATED WORK SPECIFIED ELSEWHERE:
- STRUCTURAL.
- LANDSCAPE.
- 3. ARCHITECTURAL
- 4. ELECTRICAL
- 5. CIVIL.
- MECHANICAL. WATERPROOFING.
- 8. FOUNTAIN PLUMBING.

1.2 REFERENCE STANDARDS

- A.THIS INSTALLATION SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE FOLLOWING CODES:
- NEC NATIONAL ELECTRICAL CODE.
- UNIFORM BUILDING CODE. B.MATERIALS FURNISHED HEREUNDER SHALL, WHERE APPLICABLE, COMPLY WITH THE LATEST EDITION OF

APPLICABLE STANDARD SPECIFICATIONS PUBLISHED BY THE FOLLOWING ORGANIZATIONS:

- ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS.
- AMERICAN NATIONAL STANDARDS INSTITUTE.
- INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
- INSULATED POWER CABLE ENGINEERS ASSOCIATION.
- NEMA\ NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.
- C.PROVIDE LABELED EQUIPMENT CERTIFYING APPROVAL, AS HEREINAFTER SPECIFIED, BY UNDERWRITERS LABORATORIES (UL).

1.3 SUBSTITUTIONS

- A. THE USE OF MANUFACTURERS' NAMES AND CATALOG IS GENERALLY USED TO ESTABLISH A STANDARD OF QUALITY AND UTILITY FOR THE SPECIFIED ITEMS AND TO PROVIDE A DIMENSIONAL REFERENCE FOR CONSTRUCTION DOCUMENTS THAT ARE DRAWN TO SCALE.
- B. BIDDING CONTRACTOR SHALL PROVIDE SUBMITTAL DATA OF ANY "ALTERNATES" WITH THEIR BID AND ITEMIZED COST ANALYSES IN THE CONTRACT SUM AT THE OWNER'S OPTION.
- C. SUBMITTALS FOR "APPROVED EQUAL" ITEMS SHALL, WHERE APPLICABLE, INCLUDE THE FOLLOWING DATA WHICH ARE NOT REQUIRED FOR SPECIFIED ITEMS:
- 1. MANUFACTURER'S SHOP DRAWINGS OR CATALOG CUT SHEETS
- 2. PERFORMANCE CHARACTERISTICS. 3. MATERIAL DESCRIPTIONS.
- 4. FINISH DESCRIPTIONS.
- 5. CERTIFICATION OF CONFORMANCE WITH SPECIFIED CODES AND STANDARD SPECIFICATIONS.
- D. SUBMITTALS OF "APPROVED EQUAL" COMPONENTS MAY BE REJECTED BASED ON THE FOLLOWING: 1. MANUFACTURER'S SHOP DRAWINGS OR CATALOG CUT SHEETS ARE NOT PROVIDED.
 - 2. THE COMPONENT WOULD NECESSITATE THE ALTERATION OF ANY PORTION OF THE PLUMBING,
 - ELECTRICAL, ARCHITECTURAL, OR STRUCTURAL DESIGN.
 - 3. DIMENSIONS VARY FROM THE SPECIFIED COMPONENT IN SUCH A MANNER THAT ACCESSIBILITY OR CLEARANCES ARE IMPAIRED OR THE WORK OF OTHER TRADES IS ADVERSELY AFFECTED.

A. SUBMIT A MATERIAL LIST FOR ALL MATERIALS FURNISHED UNDER THIS SECTION.

- B. SUBMITTALS MUST BE FURNISHED AS A SINGLE PACKAGE, WITH EXCEPTION MADE FOR EMBEDMENT ITEMS WHICH REQUIRE EARLY APPROVAL.
- C. SUBMIT SHOP DRAWINGS AND/OR CATALOG CUTS FOR THE FOLLOWING ITEMS
- MOTOR STARTERS. PANELBOARDS.

1.4 SUBMITTALS

- CAST BRONZE JUNCTION BOXES AND CORD SEALS.
- 4. POTTING COMPOUND.
- 5. CONTROL PANELS. INCLUDE WIRING DIAGRAMS, DEVICES, AND LAYOUT.
- 6. WATERTIGHT CONDUIT ENTRANCE SEALS.
- WATERPROOF CAULKING COMPOUND.
- 8. TIMERS.
- 9. PENETRATION DETAILED DRAWINGS
- D. INCLUDE OUTLINE DIMENSIONS, OPERATING AND MAINTENANCE CLEARANCES REQUIRED, AND SUFFICIENT ENGINEERING DATA TO INDICATE COMPLIANCE WITH THE SPECIFICATIONS.
- E. ALL SUBMITTALS MUST BE NEWLY PREPARED AND NOT REPRODUCED FROM THE CONTRACT DOCUMENTS.
- F. PROVIDE SUFFICIENT IDENTIFICATION ON EACH SUBMITTAL TO INDICATE THE APPLICATION. SUBMITTALS NOT SO IDENTIFIED MAY BE REJECTED.
- G. SUBMITTALS MAY BE REJECTED IF THEY ARE DIFFICULT TO READ DUE TO INSUFFICIENT SCALE, POOR IMAGE QUALITY, OR POOR DRAFTING QUALITY; OR IF THE REQUIRED INFORMATION IS NOT INCLUDED.

1.3 OPERATING INSTRUCTION

A. AT COMPLETION, A PERIOD OF NOT LESS THAN EIGHT HOURS SHALL BE ALLOTTED BY THE CONTRACTOR FOR INSTRUCTION OF OPERATING AND MAINTENANCE PERSONNEL IN THE USE OF ALL SYSTEMS. ALL PERSONNEL SHALL BE INSTRUCTED AT ONE TIME, THE CONTRACTOR MAKING ALL NECESSARY ARRANGEMENTS WITH MANUFACTURER'S REPRESENTATIVES TO PROVIDE INSTRUCTION, PRODUCT LITERATURE AND APPLICATION GUIDES FOR THE USER'S REFERENCE.

1.4 THIRTY-DAY OPERATION PERIOD

- A. AS SOON AS THE STRUCTURE HAS BEEN COMPLETED AND ALL PLUMBING AND ELECTRICAL EQUIPMENT HAS BEEN INSTALLED AND TESTED, THE SWIMMING POOL AND SPA MAY BE PLACED IN OPERATION.
- B. PRIOR TO ACCEPTANCE OF THE INSTALLATION BY THE OWNER. THE CONTRACTOR SHALL DEMONSTRATE A CONCURRENT THIRTY DAY, FULLY AUTOMATED UNINTERRUPTED DAILY OPERATION OF NOT LESS THAN TWELVE HOURS NOR MORE THAN TWENTY HOURS FOR ALL SYSTEMS PROVIDED UNDER THIS SECTION.
- C. THE CONTRACTOR SHALL SUPERVISE THE OPERATION OF THE EQUIPMENT AND BE RESPONSIBLE FOR THE PROPER OPERATION AND MAINTENANCE THEREOF AND MAKE NO CLAIM AGAINST THE OWNER FOR ANY DAMAGE TO THE EQUIPMENT DURING SUCH OPERATION. THE CONTRACTOR SHALL MAKE SUCH CHANGES, ADJUSTMENTS, OR REPLACEMENTS OF EQUIPMENT AS MAY BE REQUIRED TO MAKE THE INSTALLATION COMPLY WITH THE SPECIFICATIONS.
- D. THE COST OF ELECTRICITY, WATER, AND NORMAL OPERATIONAL SUPPLIES DURING THE THIRTY-DAY OPERATION WILL BE PAID BY THE OWNER. THE CONTRACTOR SHALL PAY FOR ALL OPERATING COSTS RESULTING FROM SYSTEM DEFICIENCIES.
- E. COORDINATE THE THIRTY-DAY OPERATION PERIOD WITH THE PLUMBING CONTRACTOR AND OTHER TRADES RELATED TO THE SWIMMING POOL AND SPA WORKS.

PART 2 - PRODUCTS

2 GENERAL

- A. WHERE PRACTICABLE, THE PRODUCT OF A SINGLE MANUFACTURER FOR EACH TYPE OF MATERIAL OR EQUIPMENT SHALL BE USED THROUGHOUT ALL WORK SPECIFIED UNDER THIS SECTION.
- B. PROVIDE ALL SPECIAL TOOLS REQUIRED FOR PROPER OPERATION AND MAINTENANCE OF EQUIPMENT PROVIDED UNDER THIS SECTION. DELIVER TO THE OWNER.
- C. FURNISH THREE HARD BACK 3-RING BINDERS CONTAINING ALL BULLETINS, OPERATING AND MAINTENANCE INSTRUCTIONS, PART LISTS, AND OTHER PERTINENT INFORMATION FOR EACH AND EVERY PIECE OF EQUIPMENT FURNISHED UNDER THIS SECTION. INCLUDE SERVICE TELEPHONE NUMBERS. INDEX BINDER INTO SECTIONS AND LABEL FOR EASY REFERENCE. DELIVER TO THE ARCHITECT.
- D. PRODUCTS SHOWN ON THE DRAWINGS BUT NOT SPECIFIED HEREIN SHALL BE PROVIDED IN ACCORDANCE WITH INFORMATION SHOWN ON THE DRAWINGS AND THE GENERAL PROVISIONS OF THIS PART OF THIS SPECIFICATION. 3 RACEWAYS AND BOXES
- A. RIGID STEEL CONDUIT AND FITTINGS: ALSO FOR HW FLOAT SWITCHES
- 1. CONDUIT: THREADED, HOT DIP GALVANIZED, CONFORMING TO ANSI C80.1-1983.
- 2. FITTINGS: MALLEABLE IRON, ELECTROPLATED, AS MANUFACTURED BY THOMAS AND BETTS OR APPROVED EQUAL.

B. ELECTRICAL METALLIC TUBING:

- 1. CONDUIT: COLD ROLLED STEEL, HOT DIPPED GALVANIZED OR ZINC METALLIZED INSIDE AND OUTSIDE AND INSIDE PROTECTIVE ENAMEL COATING CONFORMING TO ANSI C80.3-1983.
- 2. FITTINGS: MALLEABLE IRON OR GALVANIZED STEEL, SET SCREW OR COMPRESSION TYPE.
- C. RIGID NON-METALLIC CONDUIT (PVC):
- 1. CONDUIT: RIGID POLYVINYLCHLORIDE CONDUIT CONFORMING TO NEMA TC2. UL LISTED FOR EXPOSED AND DIRECT BURIAL APPLICATIONS AND FOR 90 DEGREES C CONDUCTOR INSULATION.
- 2. FITTINGS: MOLDED PVC, SLIP ON, SOLVENT WELD TYPE AS FURNISHED BY THE CONDUIT MANUFACTURER.
- D. LIQUID-TIGHT FLEXIBLE CONDUIT:
- 1. CONDUIT: NON-METALLIC, PVC JACKET AND CORE, CONFORMING TO U.L. STANDARDS AND NEC ARTICLE 351B. KELLEMS "POLYTUFF I" SERIES OR APPROVED EQUAL.
- 2. FITTINGS: NON-METALLIC, NYLON, CONFORMING TO U.L. STANDARDS. KELLEMS "POLYTUFF I" SERIES OR APPROVED EQUAL.
- E. BRASS CONDUIT: THREADED, SILICON BRONZE ALLOY. CAMBRIDGE LEE OR APPROVED EQUAL.
- F. WATERTIGHT CONDUIT ENTRANCE SEALS: OZ GEDNEY TYPE FSK OR APPROVED EQUAL WITH GROUNDING CONNECTION. BELOW GRADE PENETRATIONS ONLY
- G. SURFACE RACEWAY: SEAMLESS STEEL CONSTRUCTION, HINGED COVER, FACTORY GRAY ENAMEL FINISH, CONFORMING TO U.L. STANDARD NO. 5.

H. OUTLET BOXES:

- 1. CAST METAL OUTLET BOXES: 4" ROUND. PLATED CAST IRON ALLOY BODY WITH THREADED HUBS AND MOUNTING LUGS. CAST IRON ALLOY COVER. NEOPRENE GASKET. CROUSE-HINDS VXF SERIES OR APPROVED
- 2. CONDUIT OUTLET BODIES: PLATED CAST IRON ALLOY BODY WITH THREADED HUBS, NEOPRENE GASKET AND CAST IRON COVER.
- 3. CAST BRONZE JUNCTION BOXES: CAST BRONZE BODY AND COVER, NEOPRENE GASKET, STAINLESS STEEL FASTENERS AND INTERNAL GROUND SCREW. CRYSTAL EBJ SERIES OR APPROVED EQUAL. SEE JUNCTION BOX SCHEDULE FOR TYPES. IS THERE A J-BOX SCHEDULE?
- 4. POTTING COMPOUND: 3M "SCOTCHCAST 2112" RE-ENTERABLE ENCAPSULATE. UW J BOXES ONLY
- 5. WATERPROOF CAULKING COMPOUND: DOW-CORNING "SILASTIC" NO. 738 RTV OR APPROVED EQUAL. UW J BOXES ONLY

I. SUPPORTING DEVICES:

- 1. PROVIDE ALL NECESSARY INSERTS, FASTENERS, CLAMPS, RODS, CHANNELS, STRAPS, BOLTS, NUTS AND
- 2. SUPPORTING DEVICES SHALL BE AS MANUFACTURED BY UNISTRUT OR APPROVED EQUAL AS RECOMMENDED FOR THE APPLICATION.
- 3. FASTENERS: TOGGLE BOLTS, EXPANSION INSERTS, WOOD SCREWS OR MACHINE SCREWS AS APPROPRIATE TO
- J. COAL TAR MASTIC: KOPPERS "BITUMASTIC" NO. 50 OR APPROVED EQUAL. UNDERGROUND CONDUIT ONLY

2.3 WIRE AND CABLE

- A. NEC TYPE THWN, MOISTURE AND HEAT RESISTANT THERMOPLASTIC INSULATED WITH NYLON JACKET. 75 DEGREES C TEMPERATURE RATING.
- 1. CONDUCTOR: COPPER, SOLID FOR SIZES AWG #12 AND #10, STRANDED FOR SIZES AWG #14, AND #8 AND
- B. NEC TYPE THW, MOISTURE AND HEAT RESISTANT THERMOPLASTIC INSULATED. 75 DEGREES C TEMPERATURE
- 1. CONDUCTOR: COPPER, SOLID FOR SIZES AWG #12 AND #10, STRANDED FOR SIZES AWG #14, AND #8 AND
- C. SPLICING AND TERMINATING: INSULATED SPRING CONNECTORS: THOMAS AND BETTS "PIGGY" WIRE JOINTS OR APPROVED EQUAL.
- 2. MECHANICAL COMPRESSION CONNECTORS: CAST BRONZE BODY, SILICON BRONZE BOLT, AS MANUFACTURED BY THOMAS AND BETTS.
- 3. BONDING CLAMPS: ALL BRONZE/BRASS BODY AND U-BOLT. THOMAS AND BETTS 3900 SERIES OR APPROVED
- 4. CABLE TIES: THOMAS AND BETTS "TY-RAP" OR APPROVED EQUAL. 5. WIRE MARKERS: THOMAS AND BETTS "E-Z CODE" OR APPROVED EQUAL
- 6. SPLICING AND INSULATING TAPE: AS MANUFACTURED BY 3M "SCOTCH" BRAND, APPLICATION IN ACCORDANCE

SHEET INDEX

- WF 1.01 NOTES AND SYMBOLS WF 1.02 NOTES AND SYMBOLS
- WF 1.03 NOTES AND SYMBOLS
- WF 2.01 WATER FEATURE FLOW DIAGRAM

WITH MANUFACTURER'S RECOMMENDATIONS

WATER FEATURE SITE PLAN WATER FEATURE DETAILS

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PURPOSE 6.26.19| BID SET|BW 17.02.19 CONSTRUCTION SET BW

WATER **FEATURE NOTES AND** SYMBOLS

sheet number:

SECTION 13 12 11 FOUNTAIN ELEC. CONTINUED

- - EQUIPMENT SHALL BE AS MANUFACTURED BY SOUTH COAST CONTROLS OR APPROVED EQUAL REFER TO THE ELECTRICAL AND PLUMBING DRAWINGS FOR EQUIPMENT SCHEDULE.
 - 2. VOLTAGE AND CHARACTERISTICS SHALL BE AS SHOWN ON THE DRAWINGS.
 - 3. ALL ENCLOSURES SHALL BE FACTORY COATED WITH GRAY ENAMEL, CONSTRUCTED TO NEMA AND BE LABELED U.L. LABEL WHERE APPLICABLE.

B. MOTOR AND CONTROL CENTER EQUIPMENT:

- 1. HOFFMAN NEMA 4 CSD SERIES OR APPROVED EQUAL.
- 2. HORIZONTAL BUS BARS: 100 AMPERE, TIN PLATED COPPER WITH BUS BARRIERS.
- 3. ARE HORIZONTAL BUS BARS LARGE ENOUGH? NO HORIZONTAL BUS REQUIRED FOR SINGLE SECTION.VERTICAL BUS BARS: 100 AMPERE, TIN PLATED COPPER WITH BUS BARRIERS
- 4. GROUND BUS: UNPLATED COPPER.
- 5. BRACING: 42,000 AMPERES RMS SYMMETRICAL. CONTRACTOR TO CONFIRM SUITABILITY FOR AVAILABLE FAULT CURRENT.
- 6. DIMENSIONS: AS REQUIRED BY THE MANUFACTURER.
- 7. DEVICES: AS SHOWN ON THE ELECTRICAL DRAWINGS
- 8. EVERY CONTROL CONDUCTOR SHALL BE IDENTIFIED AT BOTH ENDS WITH THE SPECIFIED WIRE MARKERS.

C. EQUIPMENT:

- 1. MAIN DISCONNECT BREAKER: CUTTLER HAMMER EGS SERIES
- 2. MANUAL MOTOR STARTER: CUTTLER HAMMER QC SERIES, GFI BREAKER.
- 3. BREAKERS: WMZS SERIES.
- 4. TERMINAL BLOCK: ALLEN BRADLEY J3 AND J6 SERIES.
- 5. TIMER: SOUTH COAST CONTROLS 7-DAY.
- 6. NAMEPLATES: LAMINATED PLASTIC, 1" X 3-1/2", BLACK WITH WHITE ENGRAVED LETTERS. MINIMUM CHARACTER SIZE 1/

PART 3 - EXECUTION

3.1 GENERAL

- A. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH NEC REQUIREMENTS AND THE MANUFACTURERS' INSTRUCTIONS AND RECOMMENDATIONS.
- B. PROTECT ALL CONDUITS, CONDUCTORS AND EQUIPMENT AGAINST INJURY BY EXPOSURE TO WEATHER DURING CONSTRUCTION WHILE STORED OR INSTALLED IN PLACE. TOUCH UP ANY SCRATCHES AFTER INSTALLATION
- C. COORDINATE THE LOCATION OF OUTLETS SERVING EQUIPMENT FURNISHED BY OTHER TRADES TO ALLOW SPACE FOR NECESSARY ACCESS, REPAIR, REMOVAL AND REPLACEMENT.
- D. MAKE ALL ADJUSTMENTS REQUIRED FOR PROPER OPERATION OF THE ELECTRICAL SYSTEM. USE MANUFACTURERS' REPRESENTATIVES OR FACTORY TECHNICIANS WHERE ADJUSTMENTS CANNOT BE ACCOMPLISHED BY THE CONTRACTOR'S PERSONNEL.

3.2 RACEWAYS, BOXES, CONDUITS

- A. SIZE ALL CONDUITS IN ACCORDANCE WITH THE NEC TO ACCOMMODATE QUANTITIES, SIZES AND TYPES OF CONDUCTORS SHOWN ON THE DRAWINGS.
- B. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- C.EXPOSED WORK MAY BE USED WITHIN THE EQUIPMENT SPACE UNLESS INDICATED OTHERWISE ON
- D. ARRANGE EXPOSED CONDUIT STRAIGHT, PARALLEL AND PERPENDICULAR TO THE WALLS OF THE STRUCTURE.
- E. GROUP CONDUITS IN PARALLEL HORIZONTAL OR VERTICAL RUNS WHEREVER PRACTICAL.
- F. PROTECT ALL OPENINGS IN CONDUIT DURING CONSTRUCTION TO PREVENT ENTRANCE OF FOREIGN
- G. CUT CONDUIT ENDS SQUARE. REMOVE ROUGH EDGES AND BURRS.
- H. APPLICATIONS FOR RACEWAYS (EXCEPT WHERE INDICATED OTHERWISE ON THE DRAWINGS):
- I. IN THE EQUIPMENT SPACE AND BUILDING: RIGID STEEL CONDUIT.
- J. IN THE EQUIPMENT ROOM AND STRUCTURAL TRANSITION POINT NOT LESS THAN 12" BEYOND THE
- EQUIPMENT SPACE WALL OR FLOOR: RIGID STEEL CONDUIT.
- K. IN THE EQUIPMENT ROOM AND BUILDING: ELECTRICAL METALLIC TUBING.
- L. EMBEDDED IN CONCRETE BENEATH THE EQUIPMENT SPACE FLOOR: RIGID STEEL CONDUIT.
- M. PENETRATIONS THROUGH THE SWIMMING POOL AND SPA POOL SLABS, CONNECTIONS TO UNDERWATER JUNCTION BOXES AS INDICATED ON THE DRAWINGS: BRASS CONDUIT.
- N. CONNECTIONS TO MOTORS, SOLENOID AND SIMILAR DEVICES: LIQUID-TIGHT FLEXIBLE CONDUIT.
- O. APPLICATIONS FOR OUTLET BOXES: P. IN THE EQUIPMENT SPACE AND BUILDING: CAST METAL OUTLET BOXES AND CONDUIT OUTLET
- Q. UNDERWATER AND AS INDICATED ON THE DRAWINGS: CAST BRONZE JUNCTION BOXES.

3.3 SUPPORTS:

- 1. INSTALL ALL REQUIRED FASTENERS, CLAMPS, RODS, CHANNELS, STRAPS, BOLTS, NUTS AND
- WASHERS TO SUPPORT RACEWAY SYSTEMS IN ACCORDANCE WITH THE NEC. 2. FURNISH AND ARRANGE FOR THE INSTALLATION OF ALL REQUIRED INSERTS.
- 3. SUPPORT SINGLE RUNS OF CONDUIT USING ONE-HOLE PIPE CLAMPS. USE "CLAMP BACKS" TO
- SPACE CONDUIT FROM SURFACE.
- 4. SUPPORT MULTIPLE CONDUIT RUNS USING TRAPEZE HANGERS.
- E. TERMINATIONS AND JOINTS:

G. PENETRATIONS:

- 1. TERMINATE CONDUITS IN THREADED HUBS OR BY MEANS OF TWO LOCKNUTS AND AN INSULATING BUSHING.
- 2. INSTALL EXPANSION COUPLINGS WHERE ANY CONDUIT CROSSES AN EXPANSION JOINT OR IS FASTENED TO INDEPENDENT STRUCTURES.
- 3. APPLY RED LEAD TO ALL EXPOSED THREADS AFTER JOINTS HAVE BEEN MADE.
- F. UNDERWATER JUNCTION BOXES:
- 1. SEAL THE INTERIOR OF ALL CONDUIT ENTRIES TO UNDERWATER JUNCTION BOXES USING SPECIFIED WATERPROOF CAULKING COMPOUND.
- 2. POT ALL UNDERWATER JUNCTION BOXES USING SPECIFIED POTTING COMPOUND.
- CORE DRILLING FOR CONDUIT PENETRATIONS SHALL BE ACCOMPLISHED ONLY AT LOCATIONS
- AND IN A MANNER APPROVED BY THE ARCHITECT. 2. PROVIDE A METAL SLEEVE OR CORE DRILLED HOLE FOR EACH INTERIOR CONDUIT RUN PASSING THROUGH A CONCRETE WALL OR FLOOR. SEAL, USING DRY-PACK GROUTING
- COMPOUND. 3. INSTALL WATERTIGHT CONDUIT ENTRANCE SEALS AT ALL BELOW GRADE WALL AND FLOOR PENETRATIONS. PROVIDE MEMBRANE CLAMPS WHERE REQUIRED.

3.4 DISTRIBUTION AND CONTROL EQUIPMENT

- A.INSTALL WALL MOUNTED DISTRIBUTION EQUIPMENT, CONTROL EQUIPMENT, AND INTERCONNECTING RACEWAYS ON 1 1/2" X 1 1/2" MINIMUM CHANNEL.
- B. INSTALL IDENTIFYING NAMEPLATES ON EACH ITEM OF DISTRIBUTION AND CONTROL EQUIPMENT AS NAMEPLATES. REFER TO THE NAMEPLATE SCHEDULES FOR CONTROL DEVICE NAMEPLATES.
- C. INSTALL PROTECTIVE MATTING ALONG THE ENTIRE FRONT OF THE ELECTRICAL GEAR AS INDICATED ON THE DRAWINGS.
- D. ADJUST WATER LEVEL CONTROL PROBES IN ACCORDANCE WITH INSTRUCTIONS UNDER THE MANUFACTURER'S MANUAL AND SWIMMING POOL AND SPA DESIGNER'S RECOMMENDATIONS.

3.5 GROUNDING AND BONDING

- A. PERMANENTLY GROUND AND BOND TRANSFORMERS, ELECTRICAL CABINETS, MOTORS, CONDUITS AND METAL FOR THE SUPPORT OF ELECTRICAL EQUIPMENT SUCH AS METALLIC PIPING SYSTEMS AND REINFORCING STEEL
- B. FURNISH ALL GROUND RODS AS REQUIRED.
- C. GROUNDING AND BONDING SHALL BE IN COMPLIANCE WITH ARTICLE 250 OF THE NEC AS A MINIMUM

END OF SECTION

SECTION 13 12 10 FOUNTAIN PLUMBING

1 SUMMARY

THIS SECTION DESCRIBES GENERAL REQUIREMENTS, MATERIALS, APPARATUS, TOOLS, EQUIPMENT, TRANSPORTATION, TEMPORARY CONSTRUCTION, AND SPECIAL OR OCCASIONAL SERVICES AS REQUIRED TO MAKE A COMPLETE WORKING PLUMBING INSTALLATION, AS SHOWN ON THE DRAWINGS AND DESCRIBED IN THESE SPECIFICATIONS. WORKS INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

- 1. WATER FEATURE SYSTEMS INCLUDING FILTRATION, PUMPS, VALVES, MEDIA, PIPING AND SPECIALTIES AS DESCRIBED OR SHOWN ON THE DRAWINGS.
- 2. WATER FEATURE WATER TREATMENT SYSTEMS INCLUDING FEEDER, CHEMICALS, AND VALVES, PIPING, AND RELATED ACCESSORIES.
- 3. WATER FEATURE SERVICES INCLUDING WATER, STORM AND SEWER, TO DESIGNATED POINTS OF CONNECTION WITH SITE UTILITIES.
- 4. CONCRETE HOUSEKEEPING PADS AS REQUIRED AND AS INDICATED ON THE DRAWINGS
- A. RELATED WORK SPECIFIED OTHER SECTIONS: 1. STRUCTURAL.
- 2. LANDSCAPE.
- WATERPROOFING ELECTRICAL.
- 5. CIVIL. MECHANICAL.
- REFERENCE STANDARDS A. THIS INSTALLATION SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE FOLLOWING
- INTERNATIONAL PLUMBING CODE.
- INTERNATIONAL BUILDING CODE.
- NEC NATIONAL ELECTRICAL CODE.

- 3. MATERIALS FURNISHED SHALL COMPLY WITH THE LATEST EDITION OF APPLICABLE STANDARD SPECIFICATIONS PUBLISHED BY THE FOLLOWING ORGANIZATIONS:
- ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS.
- ANSI AMERICAN NATIONAL STANDARDS INSTITUTE. ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
- AWWA AMERICAN WATER WORKS ASSOCIATION
- NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION. NSF NATIONAL SANITATION FOUNDATION
- :. PROVIDE LABELED EQUIPMENT CERTIFYING APPROVAL BY UNDERWRITERS LABORATORIES (UL) AND/OR ETL TESTING LABORATORIES.

- A. THE USE OF MANUFACTURERS' NAMES AND CATALOG IS GENERALLY USED TO ESTABLISH A STANDARD OF QUALIT AND UTILITY FOR THE SPECIFIED ITEMS AND TO PROVIDE A DIMENSIONAL REFERENCE FOR CONSTRUCTION DOCUMENTS THAT ARE DRAWN TO SCALE.
- B. BIDDING CONTRACTOR SHALL PROVIDE SUBMITTAL DATA OF ANY "ALTERNATES" WITH THEIR BID AND ITEMIZED COST ANALYSES IN THE CONTRACT SUM AT THE OWNER'S OPTION.
- C. SUBMITTALS FOR "APPROVED EQUAL" ITEMS SHALL. WHERE APPLICABLE. INCLUDE THE FOLLOWING DATA WHICH ARE NOT REQUIRED FOR SPECIFIED ITEMS:
- 1. MANUFACTURER'S SHOP DRAWINGS OR CATALOG CUT SHEETS.
- 2. PERFORMANCE CHARACTERISTICS.
- MATERIAL DESCRIPTIONS.
- 4. FINISH DESCRIPTIONS.
- 5. CERTIFICATION OF CONFORMANCE WITH SPECIFIED CODES AND STANDARD SPECIFICATIONS.
- D. SUBMITTALS OF "APPROVED EQUAL" COMPONENTS MAY BE REJECTED IF:
- 1. MANUFACTURER'S SHOP DRAWINGS OR CATALOG CUT SHEETS ARE NOT PROVIDED.
- 2. THE COMPONENT WOULD NECESSITATE THE ALTERATION OF ANY PORTION OF THE PLUMBING, ELECTRICAL, ARCHITECTURAL, OR STRUCTURAL DESIGN.
- 3. DIMENSIONS VARY FROM THE SPECIFIED COMPONENT IN SUCH A MANNER THAT ACCESSIBILITY OR CLEARANCES ARE IMPAIRED OR THE WORK OF OTHER TRADES IS ADVERSELY AFFECTED.
- A. SUBMIT A MATERIAL LIST FOR ALL MATERIALS FURNISHED UNDER THIS SECTION. B. SUBMITTALS MUST BE FURNISHED AS A SINGLE PACKAGE, WITH EXCEPTION MADE FOR EMBEDMENT ITEMS WHICH
- MAY REQUIRE EARLY APPROVAL.
- C. SUBMIT SHOP DRAWINGS, PRODUCT DATA, SAMPLES/MOCKUPS FOR THE FOLLOWING ITEMS FURNISHED UNDER THIS SECTION: PUMPS.
- 2. WATER FEATURE FITTINGS.
- VALVES. 4. PIPE AND PIPE FITTINGS.
- SPECIALTIES.

SUBMITTALS

- 6. WATER TREATMENT AND CHEMICALS.
- 7. WATER TREATMENT CONTRACTOR. (FURNISH BROCHURE OR OTHER RELEVANT QUALIFICATION
- MATERIAL). 8. CUSTOM FABRICATED FITTINGS.
- 9. PATCHING AND FILLING MATERIAL SAMPLES AND MOCKUPS FOR ARCHITECT'S APPROVAL BEFORE EXECUTION OF ANY WORK.
-). PROVIDE INSTALLATION SHOP DRAWINGS OF THE EQUIPMENT ROOM LAYOUT AND SITE PLAN SHOWING ALL PLUMBING EQUIPMENT AND PIPING. INCLUDE PIPE ELEVATIONS AND DIMENSIONS BETWEEN PIPE CENTERLINES WHERE RELEVANT.
- E. INCLUDE OUTLINE DIMENSIONS, OPERATING AND MAINTENANCE CLEARANCES REQUIRED, AND SUFFICIENT
- ENGINEERING DATA TO INDICATE COMPLIANCE WITH THE SPECIFICATIONS. . THE CONTRACTOR REMAINS RESPONSIBLE FOR VERIFYING DIMENSIONS AND FIELD CONDITIONS.
- G. PROVIDE SUFFICIENT IDENTIFICATION ON EACH SUBMITTAL TO INDICATE THE SPECIFICATION SECTION, ITEM NUMBER, MODEL, SIZE, CAPACITY AND ANY APPLICABLE NOTATION. SUBMITTALS NOT SO IDENTIFIED CORRECTLY
- I. SUBMITTALS WILL BE REJECTED IF THEY ARE DIFFICULT TO READ DUE TO INSUFFICIENT SCALE, POOR IMAGE QUALITY, OR POOR DRAFTING QUALITY.

OPERATING INSTRUCTION

A. AT THE TIME OF COMPLETION, A PERIOD OF NOT LESS THAN EIGHT HOURS SHALL BE ALLOTTED BY THE CONTRACTOR FOR INSTRUCTION OF OPERATING AND MAINTENANCE PERSONNEL IN THE USE OF ALL SYSTEMS. ALL PERSONNEL SHALL BE INSTRUCTED AT ONE TIME, THE CONTRACTOR MAKING ALL NECESSARY ARRANGEMENTS WITH MANUFACTURER'S REPRESENTATIVES TO PROVIDE INSTRUCTION, PRODUCT LITERATURE AND APPLICATION GUIDES FOR THE USER'S REFERENCE.

.6 THIRTY-DAY OPERATION PERIOD

- A. PRIOR TO ACCEPTANCE OF THE INSTALLATION BY THE OWNER, THE CONTRACTOR SHALL DEMONSTRATE A CONCURRENT THIRTY-DAY, UNINTERRUPTED DAILY OPERATION OF NOT LESS THAN TWELVE HOURS NOR MORE THAN TWENTY HOURS FOR ALL SYSTEMS PROVIDED UNDER THIS SECTION.
- B. THE CONTRACTOR SHALL SUPERVISE THE OPERATION OF THE EQUIPMENT AND BE RESPONSIBLE FOR THE PROPER OPERATION AND MAINTENANCE THEREOF AND MAKE NO CLAIM AGAINST THE OWNER FOR ANY DAMAGE TO THE EQUIPMENT DURING SUCH OPERATION. THE CONTRACTOR SHALL MAKE SUCH CHANGES, ADJUSTMENTS, OR REPLACEMENTS OF EQUIPMENT AS MAY BE REQUIRED TO MAKE THE INSTALLATION COMPLY WITH THE SPECIFICATIONS.
- C. THE COSTS OF ELECTRICITY, WATER AND NORMAL OPERATIONAL SUPPLIES DURING THE THIRTY-DAY OPERATION PERIOD WILL BE PAID BY THE OWNER. WATER TREATMENT CHEMICALS ARE INCLUDED IN THE SERVICES OF THE WATER TREATMENT COMPANY RETAINED BY THE PLUMBING CONTRACTOR. THE CONTRACTOR SHALL PAY FOR ALL OPERATING COSTS RESULTING FROM SYSTEM DEFICIENCIES.
- D. COORDINATE THE THIRTY-DAY OPERATION PERIOD WITH THE ELECTRICAL CONTRACTOR AND OTHER TRADES RELATED TO THE SWIMMING POOL AND SPA WORK.

PART 2 - PRODUCTS

2.1 GENERAL

- A. THE PRODUCT OF A SINGLE MANUFACTURER FOR EACH TYPE OF MATERIAL OR EQUIPMENT (WHERE
- APPLICABLE) SHALL BE USED THROUGHOUT ALL WORK SPECIFIED UNDER THIS SECTION. B. PROVIDE ALL SPECIAL TOOLS FOR PROPER OPERATION AND MAINTENANCE OF THE EQUIPMENT PROVIDED
- UNDER THIS SECTION. DELIVER TO THE OWNER. C. FURNISH THREE HARD BACK 3-RING BINDERS CONTAINING ALL BULLETINS, OPERATING AND MAINTENANCE INSTRUCTIONS, LUBRICATION SCHEDULES, PARTS LISTS AND OTHER PERTINENT INFORMATION FOR EACH AND EVERY PIECE OF EQUIPMENT FURNISHED UNDER THIS SECTION. INCLUDE SERVICE TELEPHONE NUMBERS. INDEX EACH BINDER INTO SECTIONS AND LABEL FOR EASY REFERENCE. DELIVER TO THE ARCHITECT
- D. PRODUCTS SHOWN ON THE DRAWINGS BUT NOT SPECIFIED HEREIN SHALL BE PROVIDED IN ACCORDANCE WITH INFORMATION SHOWN ON THE DRAWINGS AND THE GENERAL PROVISIONS OF THIS PART OF THE SPECIFICATION.

- 2.2 MOTORS A. FURNISH AND INSTALL ALL REQUIRED MOTORS FOR ALL EQUIPMENT INCLUDED UNDER THIS SECTION
- B. ALL MOTORS TO BE NEMA STANDARD, RATED FOR OPERATION AT 40 DEGREES C AMBIENT, OF AMPLE SIZE TO OPERATE AT THEIR RATED LOAD AT FULL SPEED. CONTINUOUSLY, WITHOUT CAUSING EXCESSIVE NOISE.
- VIBRATION OR TEMPERATURE RISE. C. ALL MOTORS SHALL BE SQUIRREL CAGE TYPE WOUND, NEMA DESIGN B, LOW CURRENT INRUSH AND NORMAL STARTING TORQUE, OPEN DRIP-PROOF TYPE, EQUIPPED WITH BALL BEARINGS. FOR VOLTAGE, PHASE AND HERTZ SEE DRAWINGS,

- A. THE PUMPS SHALL BE CAPABLE OF CONTINUOUS OPERATION IN THE ARRANGEMENT SHOWN AT ANY FLOW WITHIN 10% OF THE SPECIFIED CAPACITY WITHOUT CAVITATION RESULTING FROM THE DESIGN OF THE IMPELLER.
- B. EQUIPMENT SHALL BE CAPABLE OF BOTH CONTINUOUS AND INTERMITTENT OPERATION.
- C. THE SHALL BE SELF-PRIMING WITH INTEGRAL STRAINER MADE OF HIGH TEMPERATURE ENGINEERED THERMOPLASTIC MATERIAL.

CHARACTERS.

A. BALL VALVES FOR THROTTLING AND ISOLATING APPLICATIONS UP TO 2": PVC TRUE-UNION TYPE AS

C. IDENTIFYING TAGS: 1 1/2" ROUND BRASS, SETON OR APPROVED EQUAL WITH 1/4" MINIMUM STAMPED

- MANUFACTURED BY SPEARS. B. CHECK VALVES UP TO 2": PVC TRUE UNION, BALL CHECK TYPE AS MANUFACTURED BY SPEARS.
- 2.5 PIPE AND PIPE FITTINGS
- A. GENERAL: ALL PIPE AND FITTINGS SHALL BE IDENTIFIED BY THE MANUFACTURER TO INDICATE MATERIAL, CLASS OR TYPE, SIZE AND PRESSURE RATING.
- RED BRASS PIPE AND FITTINGS
- 2. PVC PIPE AND FITTINGS:
- A. SCHEDULE 40, CONFORMING TO ASTM D1785.
- B. MATERIAL: CONFORMING TO ASTM D1784, CELL CLASSIFICATION 12245B (TYPE 1, GRADE 1) C. FITTINGS: SCHEDULE 80, SOCKET WELDED CONNECTIONS CONFORMING TO ASTM D2467, THREADED
- CONNECTIONS CONFORMING TO ASTM_D2464. SOLVENT CEMENT: WELD_ON NO. 711. CONFORMING TO ASTM_D2564.
- 4. DIELECTRIC FITTINGS: EPCO. UNION OR FLANGE TYPE FITTINGS CONFORMING TO ANSI B16.8, SIZE AND MATERIAL AS REQUIRED.

6. GASKETS SHALL BE SUITABLE FOR THE INTENDED SERVICE.

- 2.6 SPECIALTIES A. CUSTOM FABRICATED FITTINGS MUST BE FABRICATED BY SPECIALIZED METAL FABRICATED WITH AT LEAST 10 YEARS OF PROVEN EXPERIENCE IN WORKING WITH WATER FEATURES. FABRICATOR SHALL SUBMIT FABRICATION SHOP DRAWINGS FOR APPROVAL PRIOR TO ANY WORK AND COORDINATE WITH ALL TRADES
- BEFORE ANY INSTALLATION COMMENCE. B. RESILIENT PIPE SEALS: PSI THUNDERLINE "LINK_SEAL" OR APPROVED EQUAL, MODULAR SYNTHETIC RUBBER LINK TYPE. 'C' SERVICE DESIGNATION WITH ZINC GALVANIZED PLATED LOW CARBON STEEL BOLTS AND NUTS.

AND GLASS REINFORCED NYLON PLASTIC PRESSURE PLATES.

- 2.7 SUPPORTING DEVICES A. SUPPORTING DEVICES SHALL BE AS MANUFACTURED BY ANVIL INTERNATIONAL, INC. AND AS RECOMMENDED AND DESIGNED FOR THE APPLICATION. CONTRACTOR SHALL INCLUDE PROPOSED SUPPORTS IN HIS/HER SHOP

DRAWINGS AND SUBMITTAL DATA PACKAGE.

- 2.8 WATER TREATMENT AND CHEMICALS
- A. CHEMICAL: SODIUM HYPOCHLORITE.
- B. PH CONTROL: SODIUM CARBONATE. C.. THE EQUIPMENT SUPPLIER SHALL PROVIDE A MANUAL CONTAINING DETAILED INFORMATION ON THE CARE AND USE OF ALL WATER TREATMENT EQUIPMENT. MSD SHEETS SHALL BE FURNISHED FOR CHEMICALS
- APPLIED AND COPIES PLACED VISIBLE IN THE EQUIPMENT ROOM. D. CONTRACTOR SHALL PROVIDE ALL REQUIRED CHEMICALS AND TESTS PRIOR TO STARTUP BASED ON IONIZER

MANUFACTURER'S INSTRUCTION MANUAL.

- A. INSTALL AND CONNECT ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS AND RECOMMENDATIONS. PROVIDE ALL PIPING, VALVES AND CONNECTIONS RECOMMENDED BY THE MANUFACTURER FOR PROPER OPERATION.
- WEATHER DURING CONSTRUCTION WHILE STORED OR INSTALLED IN PLACE. C. MAKE ALL ADJUSTMENTS REQUIRED FOR THE PROPER OPERATION OF THE PLUMBING SYSTEM. USE MANUFACTURER'S REPRESENTATIVES OR FACTORY TECHNICIANS WHERE ADJUSTMENTS CANNOT BE

B. PROTECT ALL PIPES, EQUIPMENT AND OTHER PARTS OF THE WORK AGAINST INJURY BY EXPOSURE TO THE

PUMP SYSTEMS

A. BEFORE ANY ROTATING EQUIPMENT IS PUT IN OPERATION FOR TESTING PURPOSES MADE SURE THAT ALL ELECTRICAL CONNECTIONS HAVE BEEN TESTED. OPERATION AND MAINTENANCE BINDER.

3.3 VALVE INSTALLATION

ACCOMPLISHED BY THE CONTRACTOR'S PERSONAL.

A. SUPPLY ALL PIPING SYSTEMS WITH VALVES ARRANGED TO PROVIDE NECESSARY ISOLATION AND GIVE REGULATING CONTROL THROUGHOUT THE SYSTEM.

PIPE INSTALLATION

- A GENERAL:
- PROVIDE FLANGES OR UNIONS AS INDICATED AND AS NECESSARY TO ALLOW REMOVAL AND RE-INSTALLATION OF ANY ITEM OF EQUIPMENT OR ACCESSORY WITHOUT CUTTING, WELDING OR SOLDERING.
- 2. PROVIDE DISCHARGE PIPING OF PROPER SIZE FOR ALL AIR VENT, SOLENOID AND RELIEF VALVES. EXTEND TO NEAREST DRAIN.
- 3. CUT PIPE TO MEASUREMENTS ESTABLISHED AT THE SITE. WORK INTO PLACE WITHOUT SPRINGING OR FORCING.
- 4. PROTECT ALL OPENINGS IN PIPING DURING CONSTRUCTION TO PREVENT ENTRANCE OF FOREIGN MATTER.
- 5. CUT PIPE AND TUBING ENDS SQUARE. REMOVE ROUGH EDGES AND BURRS SO THAT A SMOOTH AND
- UNOBSTRUCTED FLOW WILL BE OBTAINED.
- 6. CLOSE OR SHORT NIPPLES SHOULD BE USED ONLY WHERE SHOWN ON THE DRAWINGS, OR ABSOLUTELY NECESSARY TO SATISFY DIMENSIONAL CONSTRAINTS.
- 7. MAKE CHANGES IN PIPE SIZE USING REDUCING FITTINGS. USE BUSHINGS ONLY IF SHOWN ON THE DRAWINGS 8. UNLESS OTHERWISE NOTED, CONNECTIONS TO EQUIPMENT OR ACCESSORIES SHALL BE SCREWED FOR SIZE
- 2" AND SMALLER. 9. ARRANGE EXPOSED PIPING STRAIGHT, PARALLEL AND PERPENDICULAR TO THE WALLS OF THE STRUCTURE

B. THREADED PIPE:

- 1. CUT ALL THREADS ACCURATELY, AXIS OF THREAD COINCIDING WITH AXIS OF PIPE.
- 2. NO MORE THAN TWO THREADS SHALL SHOW BEYOND FITTINGS
- 4. REMAKE LEAKY JOINTS WITH NEW MATERIALS

3. MAKE UP JOINTS WITH TEFLON TAPE.

UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

STANDARD WEIGHT RED BRASS.

C.PVC PIPE:

- 1. BEVEL ALL PIPE ENDS WITH A COARSE FILE OR BEVELING TOOL
- 2. CLEAN SURFACES TO BE JOINED OF ALL LOOSE DIRT AND MOISTURE FROM THE I.D. AND O.D. OF THE PIPE END AND THE I.D. OF THE FITTING SOCKET.
- 3. APPLY A COATING OF APPROPRIATE PRIMER TO THE ENTIRE I.D. SURFACE OF THE FITTING SOCKET AND TO AN EQUIVALENT AREA ON THE O.D. OF THE PIPE END.
- 4. APPLY SOLVENT CEMENT USING AN APPROPRIATE NATURAL BRISTLE BRUSH AS FOLLOWS: APPLY A LIBERAL COATING OF CEMENT AROUND THE ENTIRE PERIMETER OF THE PIPE END TO A WIDTH SLIGHTLY MORE THAN THE EQUIVALENT SOCKET DEPTH OF THE FITTING. APPLY A LIGHT BUT COMPLETE COATING ONCE AROUND THE ENTIRE DEPTH OF THE SOCKET SURFACE, AVOIDING EXCESSIVE CEMENT APPLICATION. APPLY A SECOND
- LIBERAL COATING ONTO THE PIPE END. 5. IMMEDIATELY AFTER CEMENTING, INSERT THE PIPE INTO THE FITTING TO THE FULL SOCKET DEPTH WHILE ROTATING THE PIPE OR FITTING ONE QUARTER TURN. HOLD JOINT TOGETHER FOR AT LEAST 15 SECONDS AFTER JOINING TO MAKE SURE PIPE DOES NOT BACK OUT OF SOCKET.
- 6. DO NOT DISTURB OR MOVE THE JOINT FOR AT LEAST ONE HOUR AFTER JOINING.
- 7. DO NOT SOLVENT WELD PIPE IF ATMOSPHERIC TEMPERATURE IS BELOW 40 DEGREES F. OR ABOVE 90
- 8. DISCARD CEMENT WHEN AN APPRECIABLE CHANGE IN VISCOSITY TAKES PLACE OR IF CEMENT IS LUMPY OR
- 10. AT PAVED AREAS, MATERIAL MAY BE SAND, GRAVEL, OR NATIVE SOIL. AT PLANTED AREAS, SOIL SHALL BE AS

9. BACKFILL TRENCH WITH SAND OR PEA GRAVEL TO A HEIGHT OF 12" ABOVE TOP OF HIGHEST PIPE.

- D. PENETRATIONS:
- WELDING SHALL BE WATERTIGHT. SEE DRAWINGS FOR SIZES AND MODELS. 2. CORE DRILLING FOR PIPE PENETRATIONS SHALL BE ACCOMPLISHED ONLY AT LOCATIONS AND IN A MANNER APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS

- . PIPING TESTS
- 1. PROVIDE ALL TEMPORARY PIPING, PUMPS, AND GAUGES NECESSARY TO CONDUCT THE SPECIFIED TESTS.
- 2. CONDUCT ALL TESTS BEFORE CONCEALMENT OF WORK.
- 4. REPLACE OR REPAIR ANY PART THAT LEAKS. REPEAT TEST UNTIL CRITERIA ARE MET.
- 6. UNDERGROUND PIPING SHALL BE TESTED AS FOLLOWS

PRESSURE PRIOR TO BACKFILLING (SPOT BACKFILLING TO ANCHOR PIPING MAY BE DONE PRIOR TO

- PRESSURIZING). PIPING SHALL REMAIN PRESSURIZED UNTIL ALL BACKFILLING; GRADING, PLANTING AND CONCRETE WORK IN THE AREA OF THE PIPING IS COMPLETED. 8. PRESSURIZE ALL UNDERGROUND DRAIN PIPING BENEATH THE EQUIPMENT SPACE TO 10 PSI PRIOR TO
- REMAIN PRESSURIZED UNTIL ALL BACKFILLING AND CONCRETE WORK IN THE AREA OF THE PIPING IS

9. THE COMPLETED PIPING SYSTEMS SHALL BE TESTED AS FOLLOWS:

10. CONDUCT EACH TEST FOR A MINIMUM CONTINUOUS DURATION OF EIGHT HOURS.

- 12. HYDROSTATICALLY PRESSURE TEST ALL OTHER PIPING AND EQUIPMENT AT 1.5 TIMES THE HIGHEST SYSTEM PRESSURE. STRIKE ALL SOLDER JOINTS WITH A SOFT-FACE HAMMER WHILE UNDER PRESSURE. 13. LOG PRESSURE READINGS FOR ALL TESTS REQUIRED ABOVE AT THE BEGINNING AND END OF EACH TEST AND
- 14. LOG PRESSURE READINGS FOR ALL TESTS REQUIRED ABOVE AT THE BEGINNING AND END OF EACH TEST. NOTE THE LOCATION AND CAUSE OF ANY FAILURES AND METHOD OF REPAIR ON THE LOG. SUBMIT COPY OF
- 19. CIRCULATE THE WATER THROUGHOUT THE SYSTEM FOR ONE HOUR, USING THE DISPLAY PUMP. DO NOT ALLOW CLOUDY WATER TO PASS THROUGH THE FILTER TANK

TO REMOVE FOREIGN MATTER.



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DEGREES F., OR IF IT IS RAINING. STRINGY. DO NOT THIN. CEMENT MUST BE USED BEFORE THE EXPIRATION DATE SHOWN ON THE CONTAINER.

SPECIFIED BY THE ARCHITECT. 11. COMPACTING OF MATERIAL SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL CODES.

COMPACTING OF MATERIAL SHALL BE PERFORMED ACCORDING TO LOCAL CODES.

1. PIPE PENETRATIONS SHALL BE BY CAST-IN-PLACE STAINLESS-STEEL SLEEVES WITH WATER STOPS. ALL

WITH THE EXACT PROPOSED LOCATIONS AND X-RAYS FOR EXISTING REBAR LOCATIONS BEFORE CORE

- 3. PROVIDE A CORE DRILLED HOLE FOR EVERY PIPE PASSING THROUGH A CONCRETE WALL OR
- 3. USE WATER AS TEST MEDIUM. DO NOT TEST PIPING WITH AIR OR ANY OTHER COMPRESSIBLE GAS. VENT AIR FROM ALL PIPING BEING TESTED BEFORE APPLYING FULL TEST PRESSURE.
- 5. DO NOT SUBJECT ANY ITEM TO A TEST PRESSURE GREATER THAN THE PRESSURE RATING OF THE ITEM. 7. PRESSURIZE ALL UNDERGROUND PIPING (EXCEPT FOR DRAIN SYSTEM) TO 1.5 TIMES THE HIGHEST SYSTEM
- BACKFILLING. (SPOT BACKFILLING TO ANCHOR PIPING MAY BE DONE PRIOR TO PRESSURIZING). PIPING SHALL
- 11. HYDROSTATICALLY PRESSURE TEST ALL STORM AND SANITARY DRAIN PIPING AT 10 PSI.
- REPAIR ON THE DAILY LOG. SUBMIT COPY OF THE LOG TO THE ARCHITECT WEEKLY

ON EVERY WORKING DAY BETWEEN. NOTE THE LOCATION AND CAUSE OF ANY FAILURES AND METHOD OF

THE LOG TO THE ARCHITECT. 15. TESTING OF THE COMPLETED SYSTEMS AS SPECIFIED ABOVE SHALL BE WITNESSED BY THE ARCHITECT.

16. FLUSHING: BEFORE THE FOUNTAIN SYSTEM IS OPERATED, FLUSH ALL FOUNTAIN SYSTEM PIPING WITH WATE

- 17. COMPLETELY DRAIN ALL PIPING AND EQUIPMENT. 18. FILL THE SYSTEM TO THE REQUIRED CAPACITY.
- 20. DRAIN, FILL AND CIRCULATE ENTIRE SYSTEM UNTIL THE WATER REMAINS CLEAR.

5. THREADED JOINTS: WHERE SCREWED CONNECTIONS ARE USED IN COPPER SYSTEMS, ALL NIPPLES SHALL BE

PURPOSE BID SET BW 7.02.19 CONSTRUCTION SET BV

sheet number:

NOTES AND

SYMBOLS

SECTION 13 12 10 FOUNTAIN PLUMBING CONTINUED

3.6 PIPING AND EQUIPMENT SUPPORT

- 1. PROVIDE EQUIPMENT ANCHORAGE, PIPE SUPPORTS AND HANGERS AS NECESSARY TO MAINTAIN ALIGNMENT, PREVENT STRESS AND ALLOW REMOVAL AND MAINTENANCE OF FUNCTIONAL EQUIPMENT. PIPING SHALL NOT BE SUPPORTED BY THE EQUIPMENT. ALL EQUIPMENT ANCHORAGE, PIPE SUPPORTS AND HANGERS SHALL BE DESIGNED, INSTALLED AND SEISMICALLY BRACED IN ACCORDANCE WITH UBC REQUIREMENTS FOR SEISMIC ZONE 4. SEISMIC BRACING OF PIPING SHALL COMPLY WITH SMACNA SEISMIC RESTRAINT MANUAL, LATEST EDITION, SEISMIC HAZARD LEVEL B. FURNISH AND INSTALL ALL REQUIRED FASTENERS, RODS, HANGERS, SUPPORTS, BOLTS, NUTS, WASHERS AND STEEL PLATES AND SHAPES.
- 2. FURNISH AND ARRANGE FOR THE INSTALLATION OF ALL REQUIRED INSERTS AND ANCHOR BOLTS. PROVIDE TEMPLATES WHERE APPROPRIATE.
- 3. PROVIDE ADDITIONAL HANGERS OR SUPPORTS AT ALL VALVES, STRAINERS, AND ELSEWHERE WHERE REQUIRED TO PROPERLY SUPPORT ANY ADDITIONAL PIPE LOADING.
- 4. PROVIDE SUPPORTS OR BRACING TO PREVENT UNDUE MOVEMENT OF HUNG PIPING, ESPECIALLY AT CHANGES IN DIRECTION
- 5. WHERE SEVERAL PIPES OCCUR AT THE SAME ELEVATION, TRAPEZE TYPE HANGERS MAY BE USED.
- 6. STRAP HANGERS ARE NOT PERMITTED IN ANY PIPING WORK.
- EQUIPMENT MAY NOT SUPPORT ANY OF THE PIPE LOADING, NOR MAY EQUIPMENT EXCEPT VALVES, INLINE PUMPS, AND STRAINERS BE SUPPORTED BY ANY OF THE PIPING.
 PIPING SHALL NOT BE SUPPORTED BY ANOTHER PIPE OR DUCT.

3.8 EQUIPMENT IDENTIFICATION

- A. PROVIDE A SECURELY ATTACHED PERMANENTLY ENGRAVED METAL NAMEPLATE FOR EACH PIECE OF EQUIPMENT, WHERE APPROPRIATE, CONTAINING ALL DATA REQUIRED TO PROPERLY IDENTIFY THE EQUIPMENT, (I.E., MANUFACTURER, TYPE, SIZE, CAPACITY, HORSEPOWER, ETC.).
- B. PROVIDE A VALVE TAG FOR EACH VALVE, AS INDICATED ON THE SCHEMATIC PIPING DIAGRAM, TO PROVIDE INFORMATION TO CORRELATE THE VALVE WITH THE OUTLET OR FITTING SERVED.
- C. PROVIDE A HALF-SIZE COPY OF THE "AS-BUILT" FLOW DIAGRAM, PERMANENTLY ENCASED IN PLASTIC OR GLASS, TO PROVIDE THE OWNER'S OPERATING PERSONNEL READY CORRELATION OF EACH VALVE IDENTIFIED WITH EACH OUTLET OR FITTING SERVED.
- D. INSTALL NAMEPLATES FOR GAUGE/CONTROL DEVICE PANELS AS SHOWN ON THE DRAWINGS. ATTACH USING STAINLESS STEEL MACHINE SCREWS.

3.9 ADJUSTMENTS

MAKE NECESSARY TEMPORARY AND FINAL ADJUSTMENTS FOR EACH SYSTEM AND PIECE OF APPARATUS INSTALLED, USING FACTORY TRAINED TECHNICIANS WHEN NECESSARY. REFER TO THE DRAWINGS FOR ADJUSTMENT DETAILS.

3.10 WATER TREATMENT PROGRAM

- THE CONTRACTOR SHALL ENGAGE A WATER TREATMENT CONTRACTOR TO SUPERVISE CHEMICAL WATER TREATMENT OF THE FOUNTAIN SYSTEM.
- THE WATER TREATMENT CONTRACTOR IS TO PROVIDE A SEVEN (7) MONTH SUPPLY OF ANY CHEMICALS NECESSARY FOR PROPER WATER MAINTENANCE. (INITIAL 30-DAY OPERATION PERIOD PLUS SIX MONTHS AFTER ACCEPTANCE BY OWNER).
- THE WATER TREATMENT CONTRACTOR SHALL PERFORM INITIAL WATER TREATMENT SYSTEM START-UP. THE TREATMENT CONTRACTOR SHALL TEST THE INITIAL FOUNTAIN POOL WATER AND BALANCE IT BASED ON THESATURATION INDEX. THE CONTRACTOR SHALL MAINTAIN AND MONITOR THE WATER TREATMENT SYSTEM DURING THE INITIAL THIRTY-DAY OPERATION PERIOD AS NECESSARY. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE TREATMENT CONTRACTOR TO BE ON SITE DURING THE START-UP PHASE.
- THE WATER TREATMENT CONTRACTOR SHALL PROVIDE ASSISTANCE TO MAINTENANCE PERSONNEL IN THE OPERATION AND MAINTENANCE OF THE SYSTEM, AND SHALL PROVIDE FOR THE VISIT OF A SERVICE TECHNICIAN NO LESS THAN FOUR (4) TIMES PER MONTH FOR SIX (6) MONTHS SUBSEQUENT TO FINAL ACCEPTANCE OF THE FOUNTAIN SYSTEM BY THE OWNER. A WATER ANALYSIS SHALL BE PROVIDED TO MAINTENANCE PERSONNEL NO LESS THAN ONCE PER MONTH. THE VISITING TECHNICIAN WILL SEE THAT AN ADEQUATE WATER MAINTENANCE PROGRAM IS BEING MAINTAINED AND WILL PROVIDE ANY CORRECTIVE MEASURES NECESSARY. (THE OWNER WILL MAKE ARRANGEMENTS WITH THE WATER TREATMENT CONTRACTOR, OR A CONTRACTOR OF THE OWNER'S CHOICE, BEFORE THE EXPIRATION OF THIS PERIOD FOR THE CONTINUATION OF SERVICE AFTER THE INITIAL SIX-MONTH SERVICE PERIOD).

END OF SECTION

GENERAL ELECTRICAL NOTES:

GENERAL ELECTRICAL NOTE:

ALL ELECTRICAL EQUIPMENT, METAL FITTINGS AND STEEL STRUCTURES SHALL BONDED AND GROUNDED ACCORDING TO ARTICLES 250 AND 680 OF THE LATEST EDITION OF THE NEC CODES.

CP-1 PANEL:

- ESTIMATED ELECTRICAL LOAD: 500 WATTS
- 2. CONTROL LOGICS:
- A. PUMPS SP-1 SHALL BE CONTROLLED BY TIME.

CURRENT PLUMBING REMOVAL

- 1. THE WATER FEATURE HAS AN HISTORIC VALUE AND IT MUST BE MAINTAINED AS IT IS AS MUCH AS POSSIBLE.
- 2. PRIOR TO REMOVING ANY CURRENT PLUMBING, CONTRACTOR SHALL FURNISH IN WRITING THEIR DISASSEMBLY PLANS.
- 3. CONTRACTOR SHALL AVOID ANY DEMOLITION OF THE CURRENT WATER FEATURE STRUCTURE.
- CONTRACT SHALL CONSULT THE WATER FEATURE CONSULTANT AND THE LANDSCAPE ARCHITECT FOR ANY QUESTIONS
 REGARDING THE REMOVAL OF CURRENT PLUMBING AND COMPLETION OF THE NEW DESIGN.



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RISPIN MANSION PARK
WHARF ROAD AND CLARES STREET
CAPITOLA, CALIFORNIA

STAMP

DATE PURPOSE

DATE PURPOSE BY

06.26.19 BID SET BW

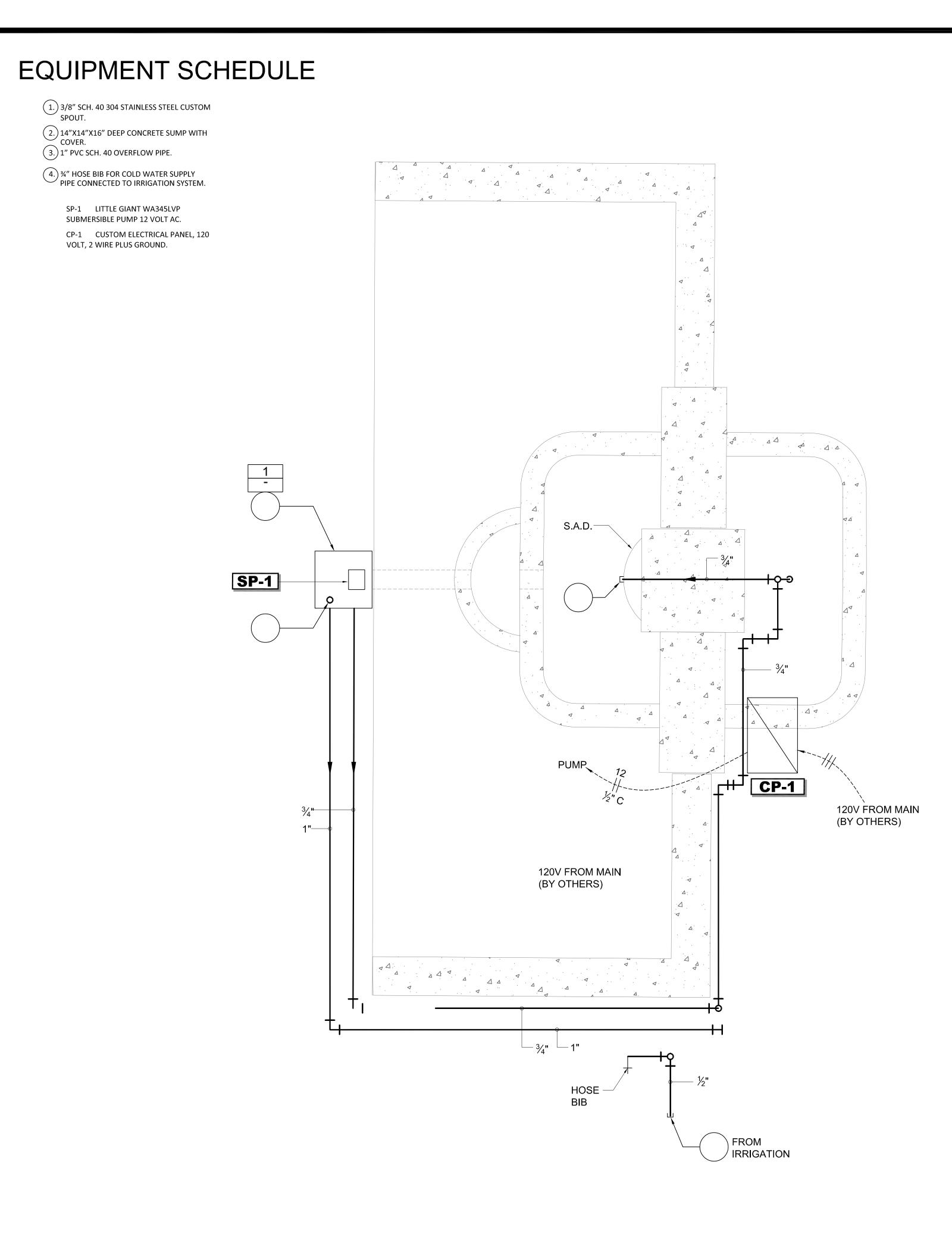
07.02.19 CONSTRUCTION SET BW

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sheet title: WATER FEATURE NOTES AND SYMBOLS

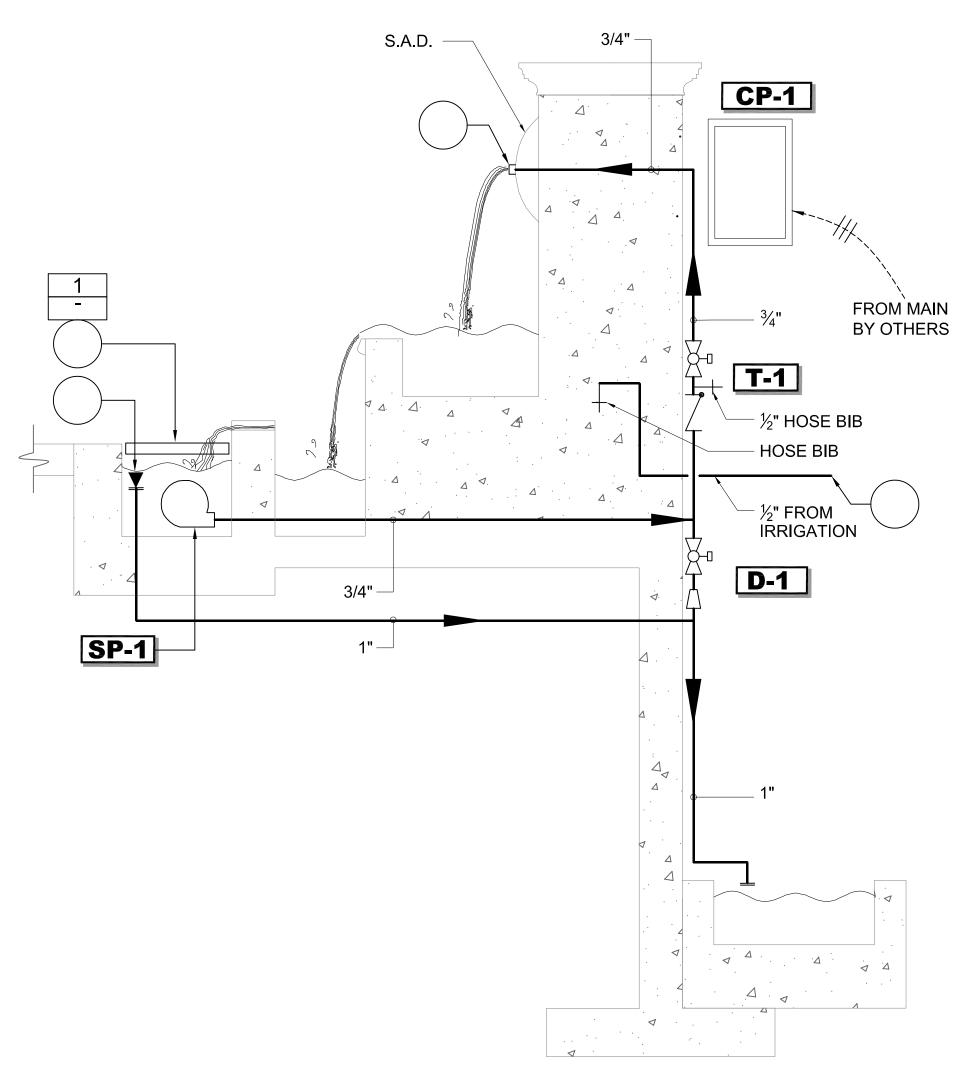
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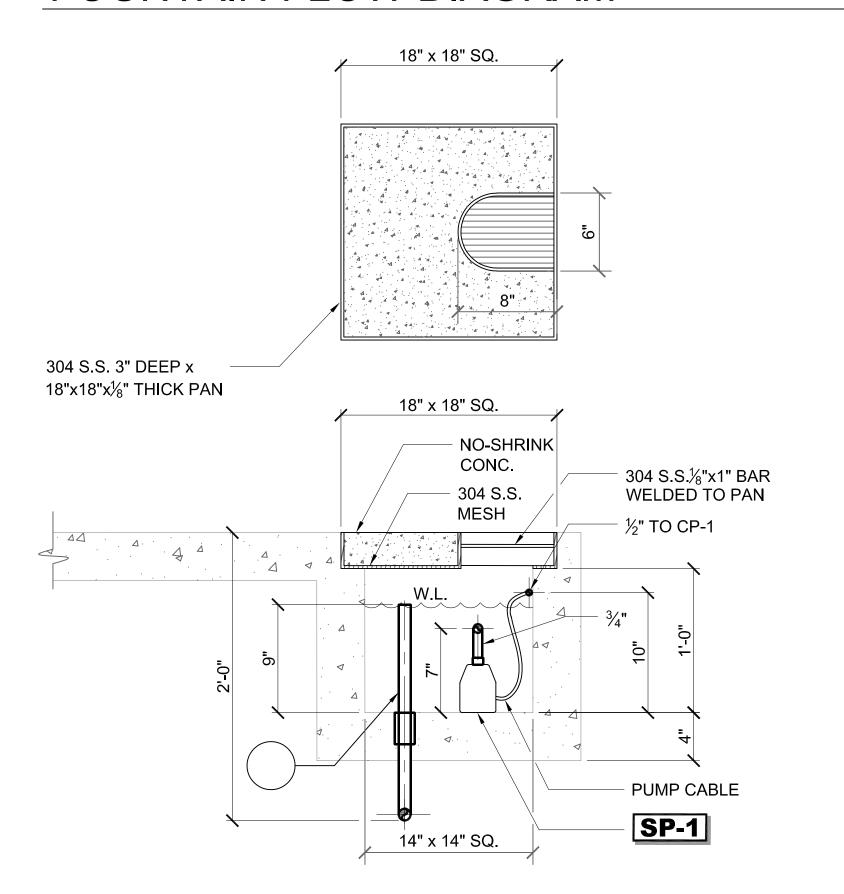


FOUNTAIN SITE PLAN

SCALE: 1" = 1' -0"



FOUNTAIN FLOW DIAGRAM

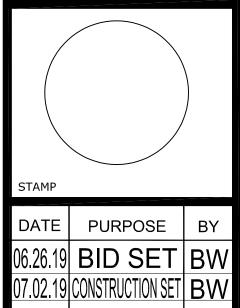


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scale: AS NOTED

sheet title: WATER FEATURE DETAILS

sheet number:

GENERAL NOTES

- THE CONTRACTOR SHALL MAKE A DETAILED AND THOROUGH STUDY OF THESE PLANS IN THEIR ENTIRETY PRIOR TO ANY WORK ON THE JOBSITE. THEY ARE TO VERIFY ALL EXISTING CONSTRUCTION CONDITIONS AND IS TO COORDINATE THESE DRAWINGS WITH ALL OTHER TRADE DISCIPLINES FOR THE COMPLETED WORK. THEY ARE ALSO TO UNDERSTAND THAT ANY FEATURE OF CONSTRUCTION NOT FULLY SHOWN OR DETAILED SHALL BE OF THE SAME TYPE AS SHOWN FOR SIMILAR
- 2. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY DISCREPANCY OCCURRING ON THE DRAWINGS OR FOUND IN THEIR COORDINATION WORK. NO CHANGES IN APPROVED PLANS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- ANY REQUEST FOR ALTERATIONS OR SUBSTITUTIONS MUST BE PRESENTED DIRECTLY TO THE ENGINEER, ACCOMPANIED BY A DETAILED SKETCH, FOR REVIEW. BEFORE ANY APPROVAL WILL BE GIVEN AND BEFORE PROCEEDING WITH THE WORK. ABSOLUTELY NO ALTERATIONS OF THESE DOCUMENTS OF ANY KIND WILL BE APPROVED ON ANY SHOP DRAWINGS.
- 4. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS (CALTRANS), LATEST EDITION, THE LATEST EDITION OF THE COUNTY OF SANTA CRUZ DESIGN CRITERIA MANUAL, SOQUEL CREEK WATER DISTRICT STANDARDS, THE CITY OF CAPITOLA STANDARD DETAILS, THE UNIFORM BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL AND
- THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE PLANS WERE OBTAINED FROM UTILITY COMPANIES AND MAY NOT REPRESENT TRUE LOCATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH OF THESE UTILITIES PRIOR TO CONSTRUCTION, AND TO NOTIFY THE PROJECT ENGINEER IN CASE OF CONFLICT.
- 6. THE CONTRACTOR SHALL SECURE ALL REQUIRED CONSTRUCTION PERMITS FROM THE DEPARTMENT OF PUBLIC WORKS PRIOR TO THE START OF WORK.
- NO CHANGES IN THESE IMPROVEMENT PLANS SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE CITY OF CAPITOLA DEPARTMENT OF PUBLIC WORKS AND THE WRITTEN APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- ALL PERMITS, COUNTY AND STATE, SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- 10. THE DIRECTOR OF PUBLIC WORKS OR HIS AUTHORIZED REPRESENTATIVE SHALL HAVE THE AUTHORITY TO "STOP WORK" IF THE WORK IS NOT BEING DONE IN ACCORDANCE
- 11. ALL CONSTRUCTION SHALL COMPLY WITH THE AMERICAN'S WITH DISABILITIES ACT.

CONSTRUCTION NOTES

WITH THESE IMPROVEMENT PLANS.

- 1. TO MINIMIZE NOISE, DUST AND NUISANCE IMPACTS ON SURROUNDING PROPERTIES TO INSIGNIFICANT LEVELS DURING CONSTRUCTION, THE OWNER/APPLICANT SHALL, OR SHALL HAVE THE PROJECT CONTRACTOR, COMPLY WITH THE FOLLOWING MEASURES DURING ALL CONSTRUCTION
 - A. GRADING ACTIVITIES ARE PROHIBITED DURING PERIODS OF WIND EXCEEDING 15
 - B. EACH DAY IT DOES NOT RAIN, WET ALL EXPOSED SOILS FREQUENTLY ENOUGH TO PREVENT SIGNIFICANT AMOUNTS OF DUST FROM LEAVING THE SITE. THE MINIMUM WATERING SCHEDULE FOR GRADED/EXCAVATED AREAS SHALL BE AT LEAST TWICE DAILY. STREET SWEEPING ON ADJACENT OR NEARBY STREETS MAY BE REQUIRED TO CONTROL THE EXPORT TO EXCESS DUST AND DIRT.
 - C. THE TEMPORARY ACCESS DRIVEWAY(S) AND ROAD(S) SHALL BE SURFACED WITH ROCK AND WHEEL WASHERS SHALL BE INSTALLED AT THE ENTRANCE FOR ALI TRUCKS LEAVING THE SITE TO AVOID DIRT AND DUST LEAVING THE SITE.
 - D. CHEMICAL SOIL STABILIZERS SHALL BE APPLIED ON INACTIVE CONSTRUCTION AREAS (DISTURBED LANDS WITHIN THE CONSTRUCTION PROJECT THAT ARE UNUSED FOR AT LEAST FOUR CONSECUTIVE DAYS.)
 - E. NON-TOXIC BINDERS SHALL BE APPLIED TO EXPOSED CUT AND FILL AREAS OR EXPOSED SLOPES AFTER CONSTRUCTION AND SHALL BE HYDROSEEDED.
 - F. ALL INACTIVE STOCKPILES SHALL BE COVERED AT ALL TIMES.
 - G. DURING GRADING AND CONSTRUCTION, A TEMPORARY BARRIER SHALL BE PLACED ALONG THE PERIMETER WESTERN AND NOTHERN PROPERTY LINES TO MINMIZE DUST, NOISE AND TRESPASS ISSUES ONTO THE ADJACENT DEVELOPED

ACCESSIBILITY NOTES

- 1. ACCESSIBLE ROUTES SHALL COMPLY WITH CALIFORNIA BUILDING CODE AND AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN.
- 2. WIDTHS SHALL PER PER PLAN AND 48" MINIMUM.
- 3. SURFACE SHALL BE SLIP RESISTANT AND STABLE. REPAIR EXISTING SURFACES AS
- 4. VERTICAL CHANGE CANNOT EXCEED 1/4". LEVEL CHANGE BETWEEN 1/4" AND 1/2" MUST BE BEVELED AT 2H: 1V MAX SLOPE.
- 5. VERTICAL DROPS ADJACENT TO PEDESTRIAN AREAS CANNOT EXCEED 4" WITHOUT A 6" HIGH WARNING CURB. VERTICAL DROPS CANNOT EXCEED 30" WITHIN 36" HORIZONTAL WITHOUT A 42" HIGH GUARDRAIL.
- 6. GRATE OPENINGS CANNOT EXCEED 1/2" IN DIRECTION OF TRAVEL. ALL GRATES SHALL BE BOLT DOWN STYLE.
- 7. PATH OF TRAVEL CROSS SLOPE CANNOT EXCEED 1.5% AND LONGITUDINAL SLOPE CANNOT EXCEED 4.5% WITHOUT A RAMP. CURB AND WHEELCHAIR RAMPS CANNOT EXCEED 7.5% LONGITUDINAL SLOPE.

SUBMITTALS

- 1. SUBMIT ALL MATERIALS TO ENGINEER FOR APPROVAL.
- 2. SUBMIT CONTROL JOINT PLAN TO ENGINEER FOR REVIEW PRIOR TO
- 3. SUBMIT STEEL HANDRAIL/GUARDRAIL SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- 4. SUBMIT CAST-IN-PLACE CONCRETE RAMP/STAIR SHOP DRAWINGS TO ENGINEER PRIOR TO CONSTRUCTION.

UNDERGROUND NOTES

- 1. ALL KNOWN EXISTING UTILITY LINES ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL EXCERCISE ALL NECESSARY CAUTION TO AVOID DAMAGE TO ANY EXISTING UTILITIES OR FACILITIES TO REMAIN IN PLACE, WHETHER OR NOT SUCH LINES OR FACILITIES ARE SHOWN ON THESE PLANS, AND SHALL BEAR FULL RESPONSIBILITY FOR ANY DAMAGE THERETO. CONTRACTOR IS ADVISED TO CONTACT AN UNDERGROUND SERVICE LOCATOR FOR MARKING UNDERGROUND LINES PRIOR TO BEGINNING WORK.
- 2. CONTRACTOR SHALL EXPOSE AND VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES. INCLUDING BUT NOT LIMITED TO SANITARY AND STORM SEWERS, AND WATER LINES BEFORE CONSTRUCTING NEW FACILITIES.
- 3. MATERIALS FOR PIPE, STORM WATER INLETS, AND CLEANOUTS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH APPLICABLE UBC AND UPC SECTIONS, AND THESE PLANS AND DETAILS SHOWN HEREON. STORM SEWER PIPE DESIGNATED "SD" SHALL BE PVC SDR 26 BELL AND SPIGOT GASKET, SMOOTH INTERIOR HDPE OR APPROVED EQUIVALIENT. PERFORATED SD SHALL BE ADS N12 OR APPROVED EQUAL.
- 4. ALL DRAINAGE PIPE SHALL BE SHIPPED, STORED AND INSTALLED PER THE PIPE MANUFACTURERS RECOMMENDATIONS.
- 5. ALL CONCRETE DRAINAGE INLETS CALLED OUT ON THE PLANS SHALL BE CHRISTY BRAND PRECAST CONCRETE OR THE EQUIVALENT. ALL STRUCTURES SHALL BE STORED. HANDLED AND INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS. STORM DRAIN CATCH BASINS IN TRAFFIC AREAS SHALL HAVE A HEAVY RATED FRAME & GRATE. THE GRATE SHALL BE ADA COMPLIANT, STORM DRAIN CATCH BASINS IN LANDSCAPE AREAS SHALL HAVE A STANDARD RATED FRAME & GRATE
- 6. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.
- 7. UTILITY TRENCHES THAT ARE PARALLEL TO THE SIDES OF STRUCTURES SHOULD BE PLACED SO THAT THEY DO NOT EXTEND BELOW A LINE SLOPING DOWN AND AWAY AT A 2:1 (HORIZONTAL TO VERTICAL) SLOPE FROM THE BOTTOM OUTSIDE EDGE OF ALL FOOTINGS AND GRADE BEAMS.
- 8. UNLESS CONCRETE BEDDING IS REQUIRED AROUND UTILITY PIPES, FREE-DRAINING CLEAN SAND SHOULD BE USED AS BEDDING. SAND BEDDING SHOULD BE COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION.
- 9. APPROVED IMPORTED CLEAN SAND OR NATIVE SOIL SHOULD BE USED AS UTILITY TRENCH BACKFILL. BACKFILL IN TRENCHES LOCATED UNDER AND ADJACENT TO STRUCTURAL FILL, FOUNDATIONS, CONCRETE SLABS AND PAVEMENTS SHOULD BE PLACED IN HORIZONTAL LAYERS NO MORE THAN 8 INCHES THICK. THIS INCLUDES AREAS SUCH AS SIDEWALKS, PATIOS, AND OTHER HARDSCAPE AREAS. EACH LAYER OF TRENCH BACKFILL SHOULD BE WATER CONDITIONED AND COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION. CLEAN SAND IS DEFINED AS 100 PERCENT PASSING THE #4 SIEVE, AND LESS THAN 5 PERCENT PASSING THE #200
- 10. THE PROJECT GEOTECHNICAL ENGINEER SHOULD BE PRESENT TO OBSERVE THE BOTTOM OF ALL TRENCH EXCAVATIONS. PRIOR TO PLACEMENT OF UTILITY PIPES AND CONDUITS. IN ADDITION, WE SHOULD OBSERVE THE CONDITION OF THE TRENCH PRIOR TO PLACEMENT OF SAND BEDDING, AND TO OBSERVE COMPACTION OF THE SAND BEDDING, IN ADDITION TO ANY BACKFILL PLANNED ABOVE THE BEDDING ZONE.
- 11. JETTING OF THE TRENCH BACKFILL IS NOT RECOMMENDED AS IT MAY RESULT IN AN UNSATISFACTORY DEGREE OF COMPACTION.
- 12. TRENCHES MUST BE SHORED AS REQUIRED BY THE LOCAL AGENCY AND THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY CONSTRUCTION SAFETY ORDERS.

PERVIOUS PAVER NOTES

- THE CONTRACTOR SHALL PROOF ROLL SUBGRADE SURFACE TO CHECK FOR UNSTABLE AREAS AND NOTIFY THE PROJECT GEOTECHNICAL ENGINEER FOR ANY UNSATISFACTORY CONDITIONS.
- 2. FILL GAP BETWEEN PAVERS WITH NO. 8, 89, OR 9, STONE JOINTING MATERIAL BETWEEN THE PAVERS.
- 3. SUBBASE AND BASE DRAIN ROCK SECTIONS CAN BE SPREAD AND COMPACTED IN 4" LIFT WITH PLATE OR STATIC ROLLER COMPACTORS. AT LEAST 4 PASSES: INITIAL PASSES SHALL BE WITH VIBRATION, FINAL PASSES SHALL BE WITHOUT VIBRATION.
- 4. BEDDING MATERIAL SHALL BE ASTM NO. 8 STONE, MOISTEN, SCREED, COMPACT AND LEVEL OVER ASTM NO. 57 STONE BASE. VEHICULAR AREAS SHALL BE UNDERLAIN BY ASTM NO. 2, 3, OR 4 STONE
- 5. FOLLOW MANUFACTURER INSTALLATION RECOMMENDATIONS FOR PAVER
- 6. PAVER PRODUCT SHALL BE AQUA-ROQ BELGARD PERMEABLE PAVERS, OR APPROVED EQUAL, COLOR AND TYPE TO BE SELECTED BY LANDSCAPE ARCHITECT. VEHICULAR PAVERS SHALL BE 31 - THICK, MIN.
- GEOTEXTILE SEPARATION FABRIC ON BOTTOM AND SIDES OF OPEN GRADED BASE SHALL BE MIRAFI 500X.
- 8. LINER SHALL BE 30 MIL PVC.
- 9. DISCHARGE PIPE SHALL BE 4" PERFORATED PVC SURROUNDED WITH 3" OF NO. 57 ROCK, CONNECTED TO SOLID 4" PVC DISCHARGE PIPE.

DECOMPOSED GRANITE NOTES

- 1. 4" MIN THICK DECOMPOSED GRANITE WITH SOIL BINDER (GRANITECRETE OR APPROVED EQUAL) COMPACTED TO 95% R.C. OVER 8" COMPACTED NATIVE SOIL TO 90% R.C.
- 2. 2"X6" TREX HEADER OR REDWOOD BOARD TO BE CONSTRUCTED AT ALL WALKWAY/SOIL INTERFACES AND HELD IN PLACE WITH 1"X3"X12" STAKES AT 3 FT O.C. FASTENED WITH 2 8-D GALVANIZED NAILS.

ASPHALT PAVEMENT NOTES

- 1. 2.5" MINIMUM THICKNESS OF 1/2" MAXIMUM TYPE A MEDIUM ASPHALT
- 2. 8" MINIMUM THICK CLASS 2 AGGREGATE BASE COMPACTED TO 95% R.C. BELOW THE ASPHALT CONCRETE. AGGREGATE SHALL BE 3/4"
- 18" MINIMUM THICK SCARIFY AND RECOMPACT NATIVE MATERIAL TO 95% R.C. BELOW THE AGGREGATE BASE. BASE SHALL BE 1%-3% OVER OPTIMUM MOISTURE CONTENT.

CONCRETE STAIRWAY/RAMP/FLATWORK NOTES

- 1. CONCRETE SHALL BE 3,000 PSI MINIMUM, SEE STRUCTURAL FOR CONCRETE REQUIREMENTS.
- 2. REBAR SHALL BE ASTM A615.
- 3. TOP EDGE OF STEPS WILL HAVE A 1/2" RADIUS WITH NON-SLIP DETECTABLE WARNING WET SET INTO CONCRETE OR APPROVED EQUAL.
- 4. #4 BARS @ 18" O.C. EACH WAY, MID DEPTH AND AT EACH NOSE TREAD, UNLESS SHOWN OTHERWISE.
- 5. MATERIALS AND CONSTRUCTION PER CALTRANS STANDARD SPECIFICATIONS SECTIONS 73 & 90.
- 6. PROVIDE 3/64" WIDE 1" DEEP CONTROL JOINTS AT 4' ON CENTER MAX EACH WAY, TOOL FRESH CONCRETE AND SAWCUT LATER.

HANDRAIL NOTES

- 1. 1 1/2" DIA SCH 40 GALV STEEL PIPE HANDRAILING.
- 2. ALL PIPES SHALL CONFORM TO ASTM A53, GRADE B, AND SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
- 3. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8" INCH.
- 4. ALL FIELD WELDS AS REQUIRED SHALL BE GROUND SMOOTH. GALVANIZED COATING SHALL BE REPAIRED AFTER FIELD WELDING.
- 5. 90 DEGREE BEND RADIUS TO THE CENTER OF PIPE SHALL BE TWO TIMES OF THE NOMINAL DIAMETER OF THE PIPE.
- 6. 3" I.D. X 8" DEEP CORE DRILL, SET SCH 80 HANDRAIL POSTS WITH QUICK SET-NON SHRINK MORTAR.

EARTHWORK AND GRADING NOTES

- EARTHWORK SHALL BE IN CONFORMANCE WITH THE GEOTECHNICAL INVESTIGATON PREPARED BY PACIFIC CREST ENGINEERING, DATED FEBRUARY 2016, JOB NUMBER 15119-SZ69-B14.
- 2. WORK SHALL CONSIST OF ALL CLEARING, GRUBBING, STRIPPING PREPARATION OF LAND TO BE FILLED, EXCAVATION, SPREADING COMPACTION AND CONTROL OF FILL, AND ALL SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING TO CONFORM TO THE LINES, GRADES, AND SLOPES, AS SHOWN ON THE APPROVED PLANS AND AS SPECIFIED IN THE GEOTECHNICAL INVESTIGATION REPORT.
- 3. ALL GRADING SHALL CONFORM TO SECTION 19 OF THE CALTRANS STANDARD SPECIFICATIONS, LATEST APPLICABLE EDITION, ALL EARTHWORK SHALL BE DONE IN ACCORDANCE TO THE GEOTECHNICAL INVESTIGATION PREPARED BY PACIFIC CREST ENGINEERING.
- 4. THE CONTRACTOR SHALL NOTIFY THE PROJECT GEOTECHNICAL ENGINEER AT LEAST 4 WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY GRADING OPERATIONS.
- 5. ALL EXISTING TRASH, DEBRIS, ROOTS, TREE REMAINS AND OTHER RUBBISH SHALL BE REMOVED FROM THE SITE SO AS TO LEAVE THE AREAS THAT HAVE BEEN DISTURBED WITH A NEAT AND FINISHED APPEARANCE FREE FROM UNSIGHTLY DEBRIS. NO BURNING SHALL BE PERMITTED.
- 6. ALL EXISTING TRASH, DEBRIS, ROOTS, TREE REMAINS AND OTHER RUBBISH SHALL BE REMOVED FROM THE SITE SO AS TO LEAVE THE AREAS THAT HAVE BEEN DISTURBED WITH A NEAT AND FINISHED APPEARANCE FREE FROM UNSIGHTLY DEBRIS. NO BURNING SHALL
- 7. FILL SHALL BE PLACED IN 8" LIFTS, PLASTICITY INDEX 4-12, R-VALUE 30, AND NON-EXPANSIVE PER GEOTECHNICAL INVESTIGATION. GEOTECHNICAL TESTING SHALL BE PERFORMED PER GEOTECHNICAL INVESTIGATION.

APPROVED FOR CONSTRUCTION BY THE CITY OF CAPITOLA

STEVEN JESBERG, PUBLIC WORKS DIRECTOR

CIVIL SHEET INDEX

GENERAL NOTES & SPECIFICATIONS

SITE PLAN C1.0 DETAILS

C1.1 C1.2 CITY OF CAPITOLA & CALTRANS DETAILS

SITE SECTIONS & PROFILES C1.3 C1.4 RAMP SECTIONS

C2.0 GRADING PLAN C3.0

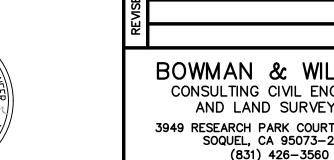
DRAINAGE PLAN C4.0 STORMWATER CONTROL PLAN C5.0 EROSION & SEDIMENT CONTROL PLAN

EROSION & SEDIMENT CONTROL DETAILS

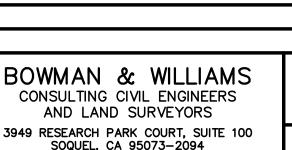
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GENERAL NOTES & **SPECIFICATIONS**

JOB NO. 25803.01

RISPIN MANSION PARK

CAPITOLA, CALIFORNIA

SHEET SCALE 1"=20' DRAWN DATE AUGUST 12, 2022 CHECKED BRR INDEX CAPITOLA DESIGN BRR DWG NAME 25803_C0.0 FILE NO. 25803.01

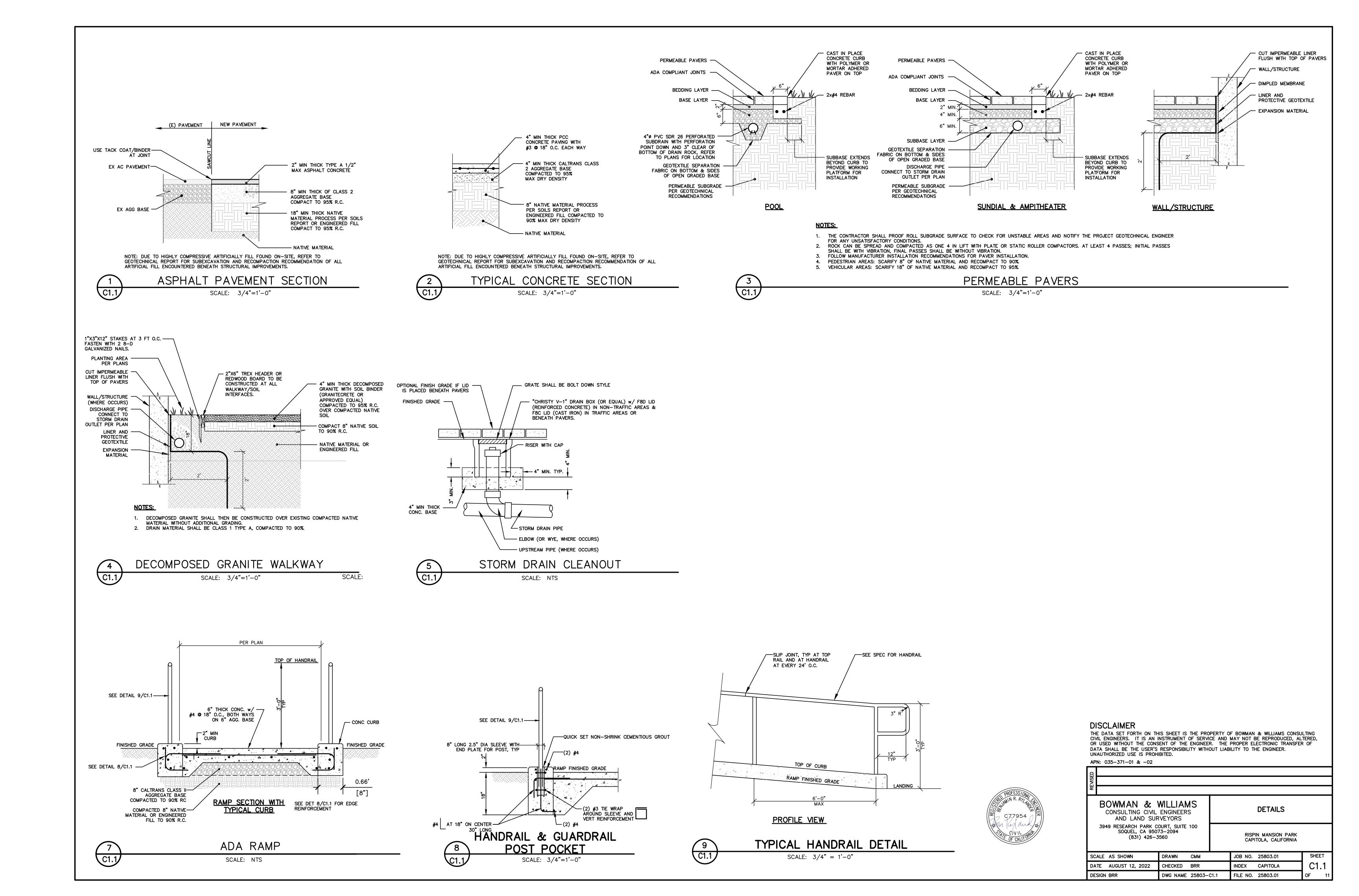


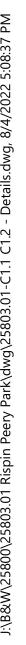
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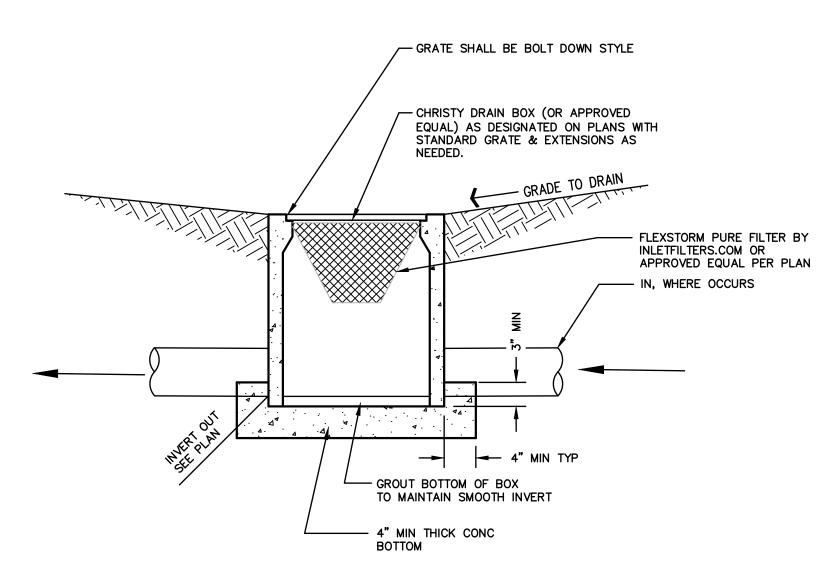
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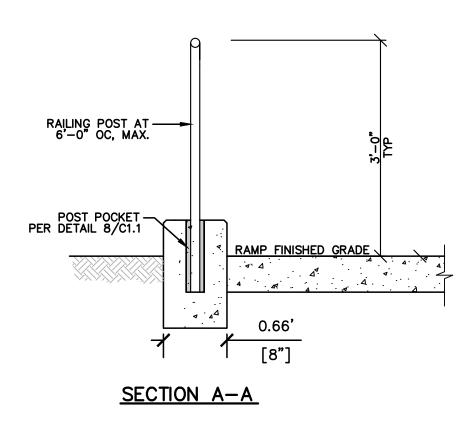
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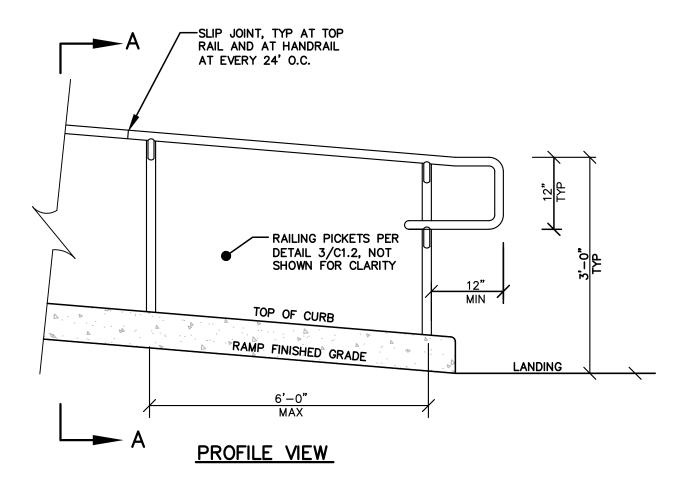
















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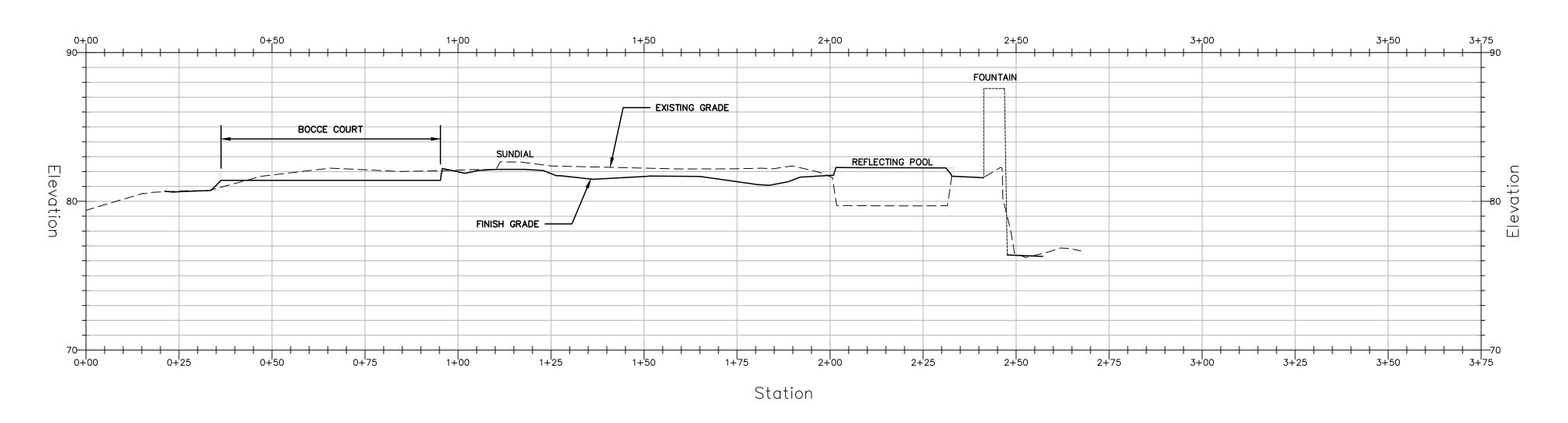
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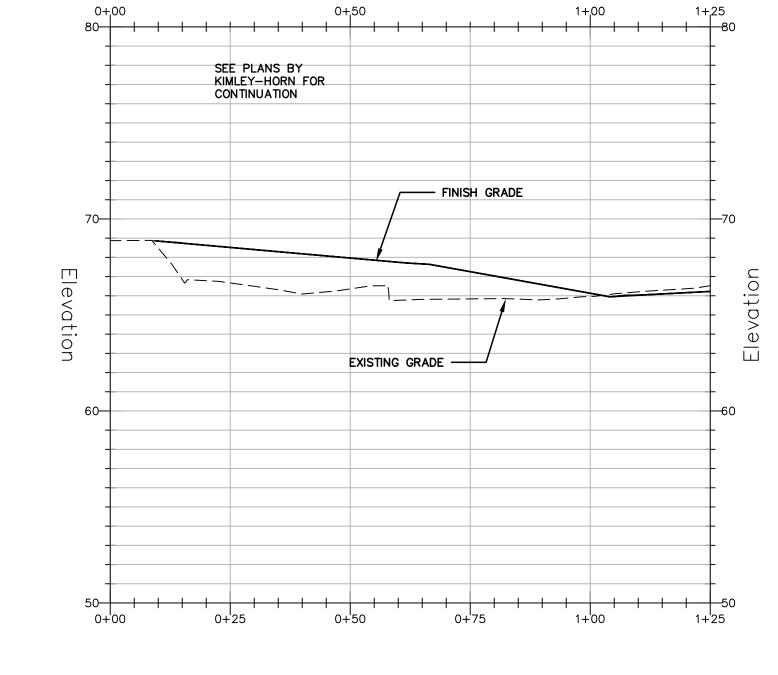
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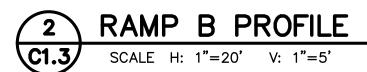
(831) 426-3560

RISPIN MANSION PARK CAPITOLA, CALIFORNIA

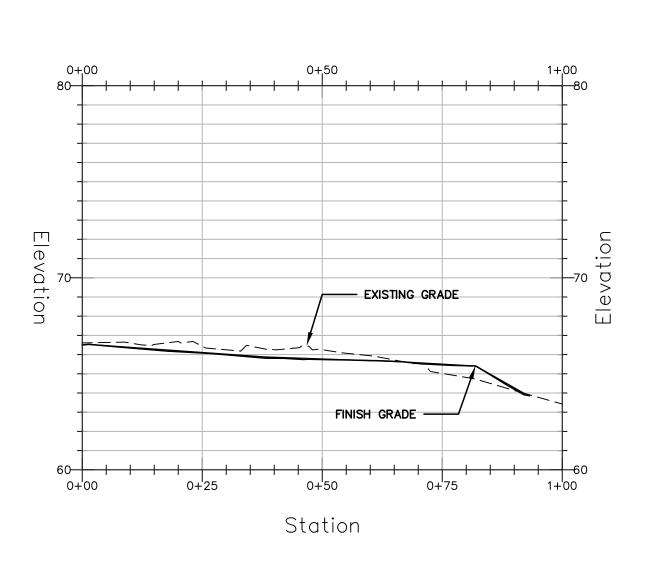
| CALE AS SHOWN | DRAWN CMM | JOB NO. 25803.01 | SHEET |
|---------------------|---------------------|-------------------|-------|
| ATE AUGUST 12, 2022 | CHECKED BRR | INDEX CAPITOLA | C1.2 |
| ESIGN BRR | DWG NAME 25803-C1.2 | FILE NO. 25803.01 | OF 11 |

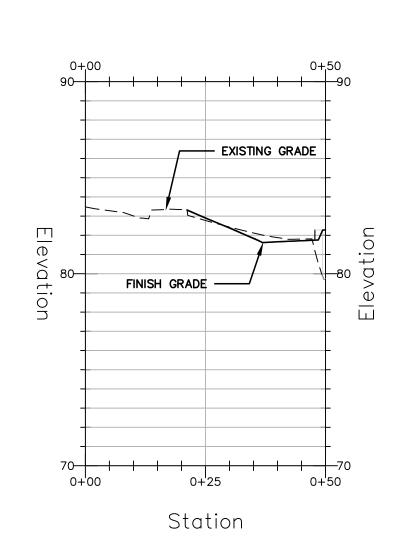




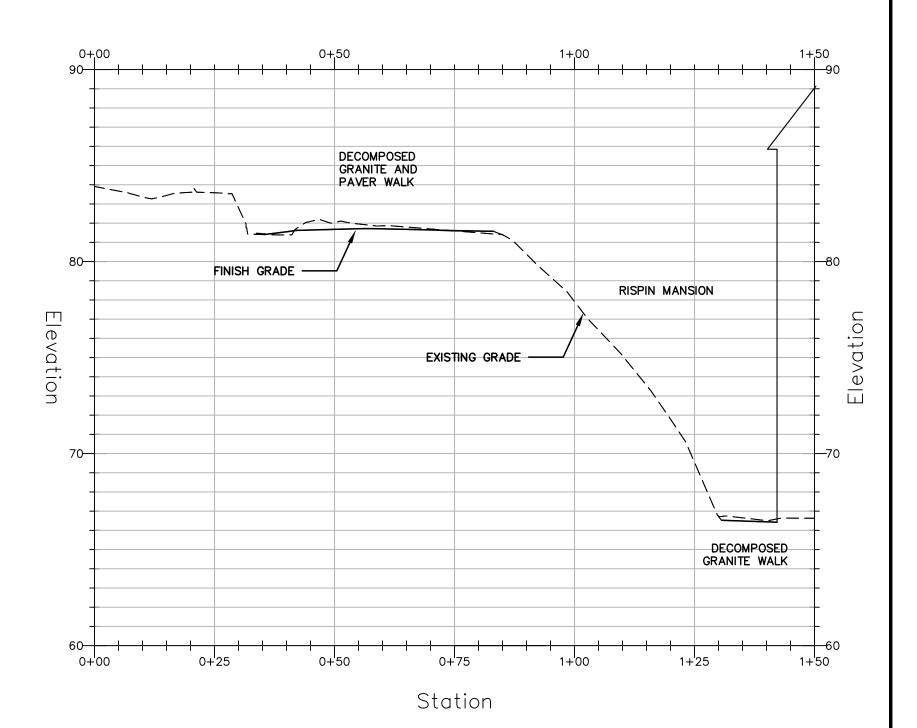








7 DRIVEWAY PROFILE 1
C1.3 SCALE H: 1"=20' V: 1"=5'



6 SITE SECTION 2 C1.3 SCALE H: 1"=20' V: 1"=5'

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APN: 035-371-01 & -02



| Ä Ü | |
|--------|--|
| | BOWMAN & WILLIAM |
| | CONSULTING CIVIL ENGINEERS AND LAND SURVEYORS |
| | 3949 RESEARCH PARK COURT, SUITE 1 SOQUEL, CA 95073-2094 |

(831) 426-3560

SITE SECTIONS & PROFILES

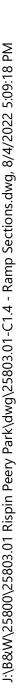
RISPIN MANSION PARK CAPITOLA, CALIFORNIA

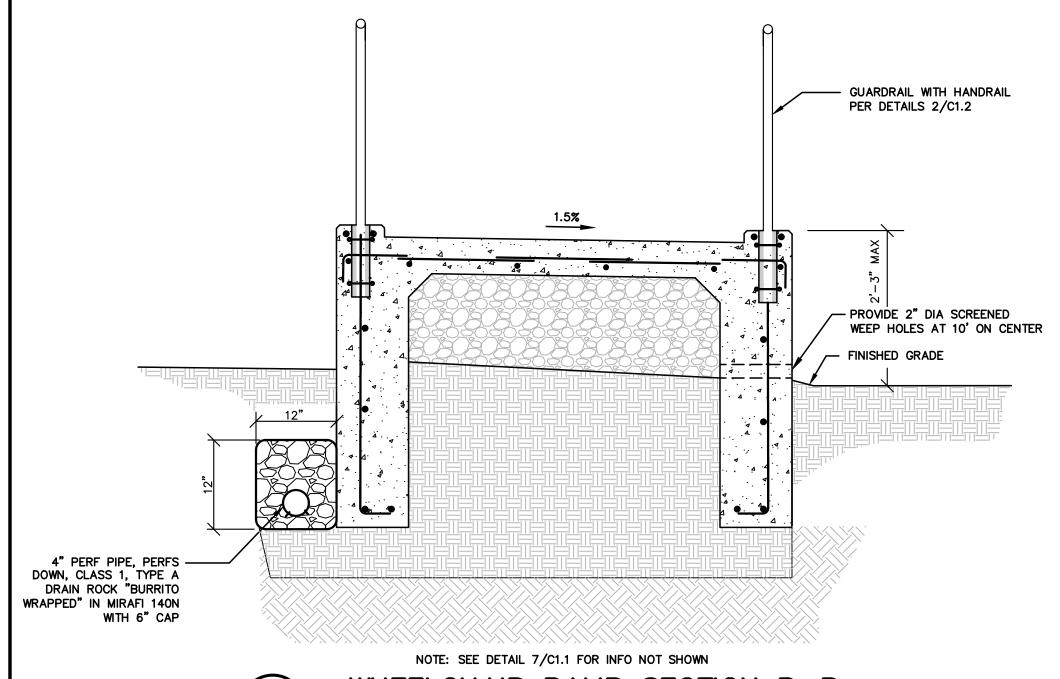
 SCALE 1" = 20'
 DRAWN
 CMM
 JOB NO. 25803.01
 SHEET

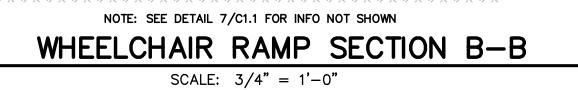
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 CHECKED BRR
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 C1.3

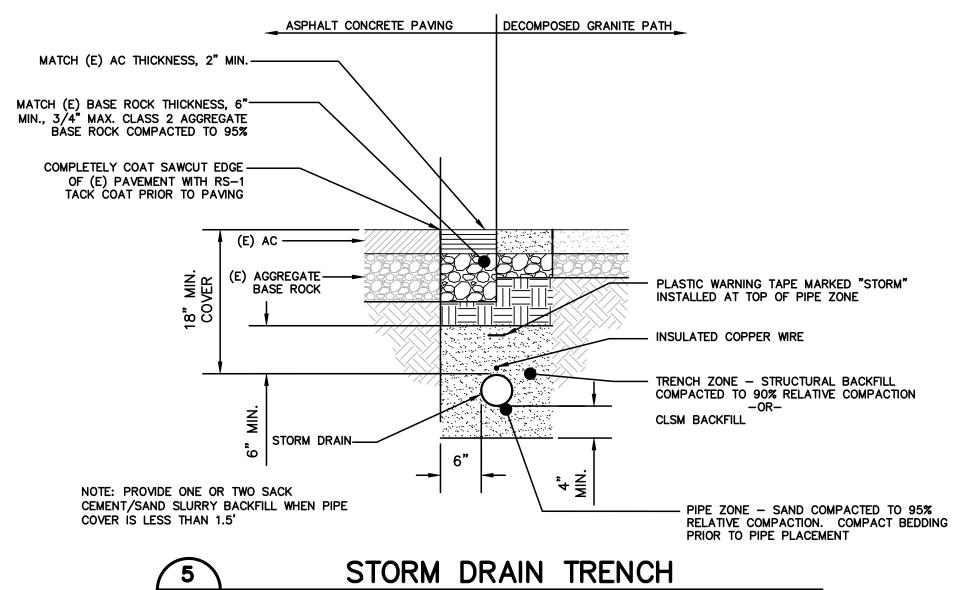
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 DWG NAME 25803-C1.3
 FILE NO. 25803.01
 OF 11

J:\B&W\\25800\25803.01 Rispin Peery Park\dwg\25803.01-C1.3 - Profiles Sections.dwg, 8/4/2022 5:08:56 PM



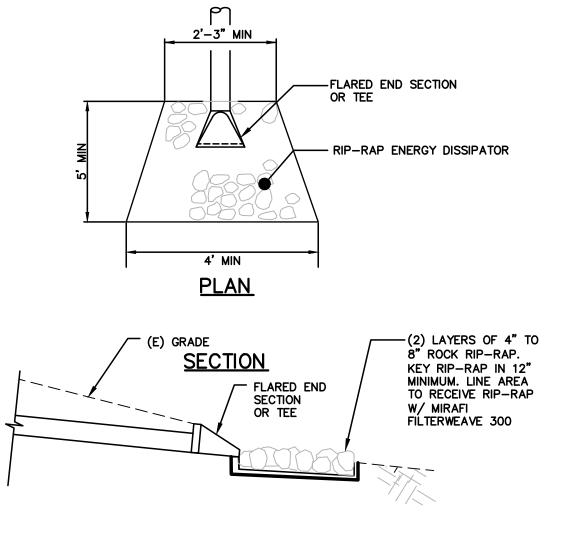






SCALE: 3/4" = 1'-0"



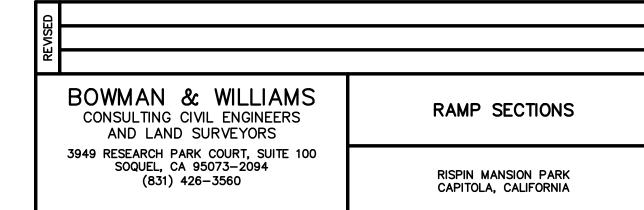


STORM DRAIN OUTFALL
SCALE: NTS

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APN: 035-371-01 & -02

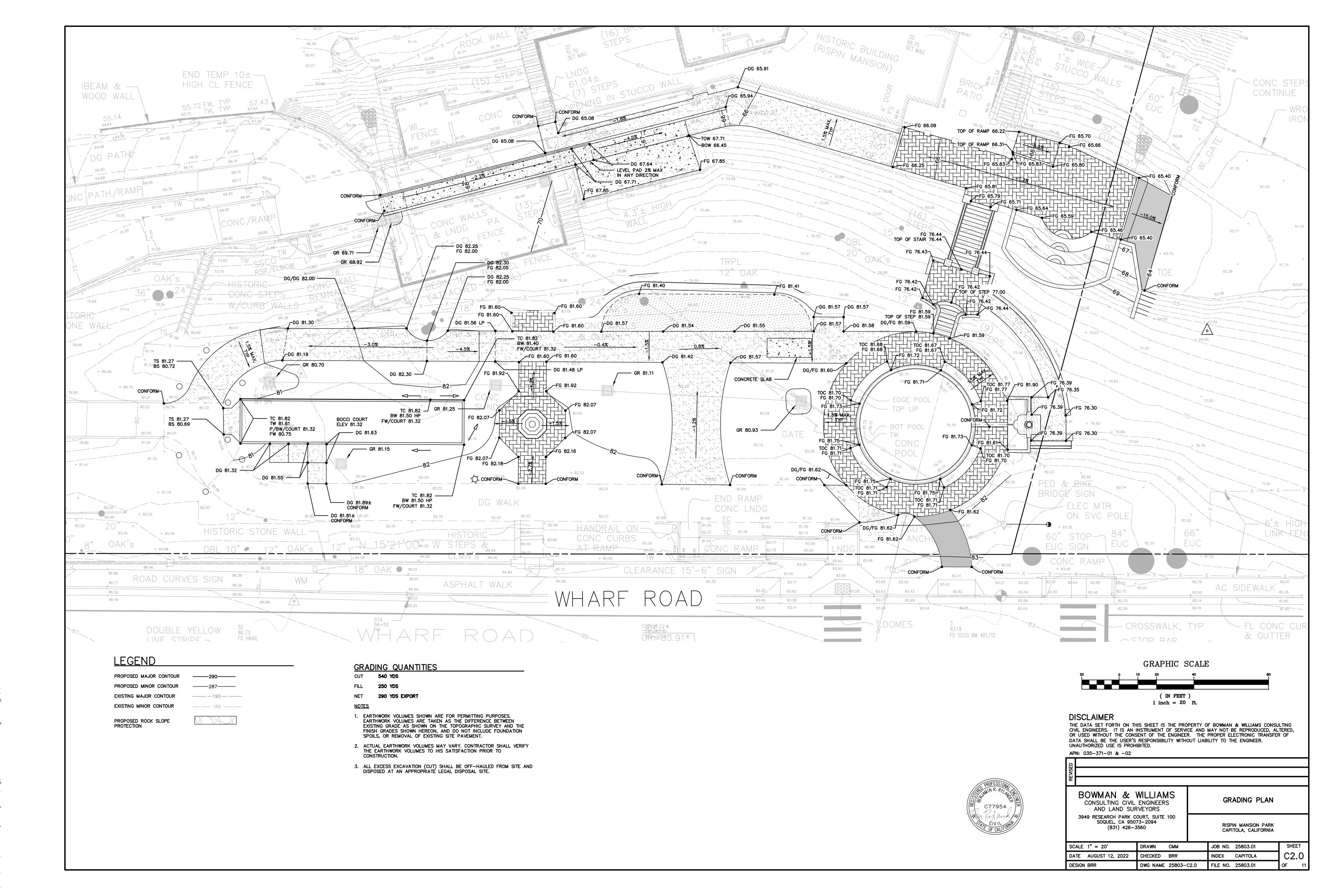


 SCALE AS SHOWN
 DRAWN
 CMM
 JOB NO. 25803.01
 SHEET

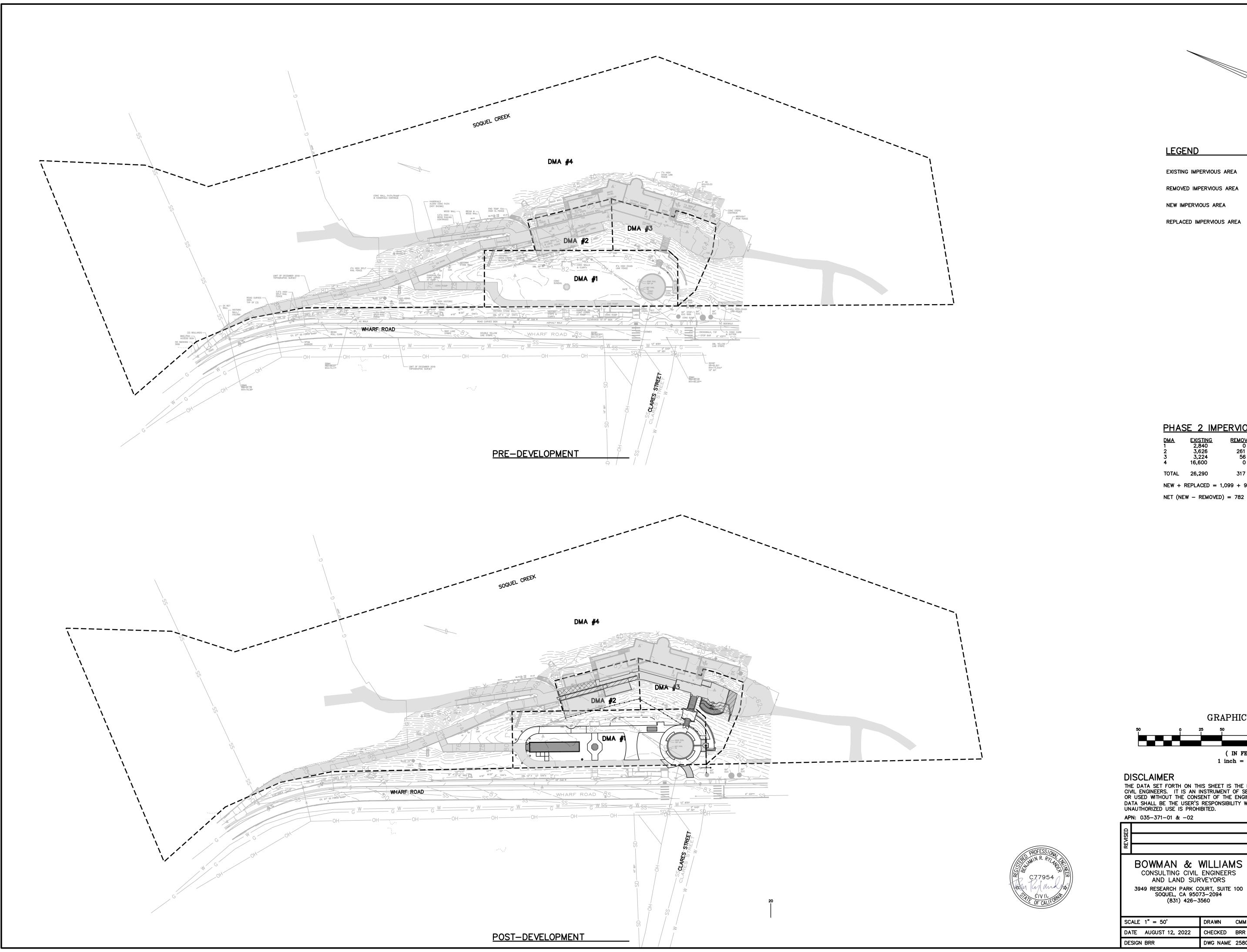
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 CHECKED BRR
 INDEX CAPITOLA
 C1.4

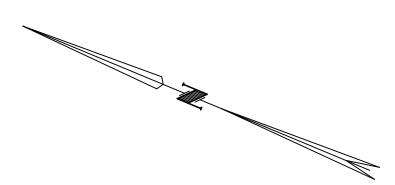
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 DWG NAME 25803-C1.4
 FILE NO. 25803.01
 OF 11





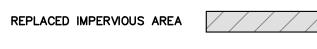
J:\B&W\\25800\25803.01 Rispin Peery Park\dwq\25803.01-C2.0 - Grading Plan.dwg, 8/4/2022 5:09:33





EXISTING IMPERVIOUS AREA

NEW IMPERVIOUS AREA

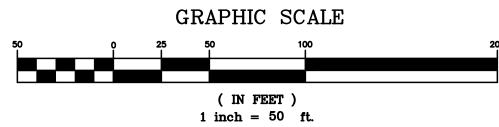


PHASE 2 IMPERVIOUS AREAS

| <u>D</u> 1 2 3 | | EXISTING 2,840 3,626 3,224 | REMOVED 0 261 56 | NEW 817 0 282 | REPLACED 0 584 380 |
|-------------------------|------|-------------------------------------|---------------------------|------------------------|-----------------------------|
| 4 | | 16,600 | 0 | 0 | 0 |
| Т | OTAL | 26,290 | 317 | 1,099 | 964 |

NEW + REPLACED = 1,099 + 964 = 2,063 (LESS THAN 15000, TIER 1)

NET (NEW - REMOVED) = 782 REMOVED (LESS THAN 5000, TIER 1)



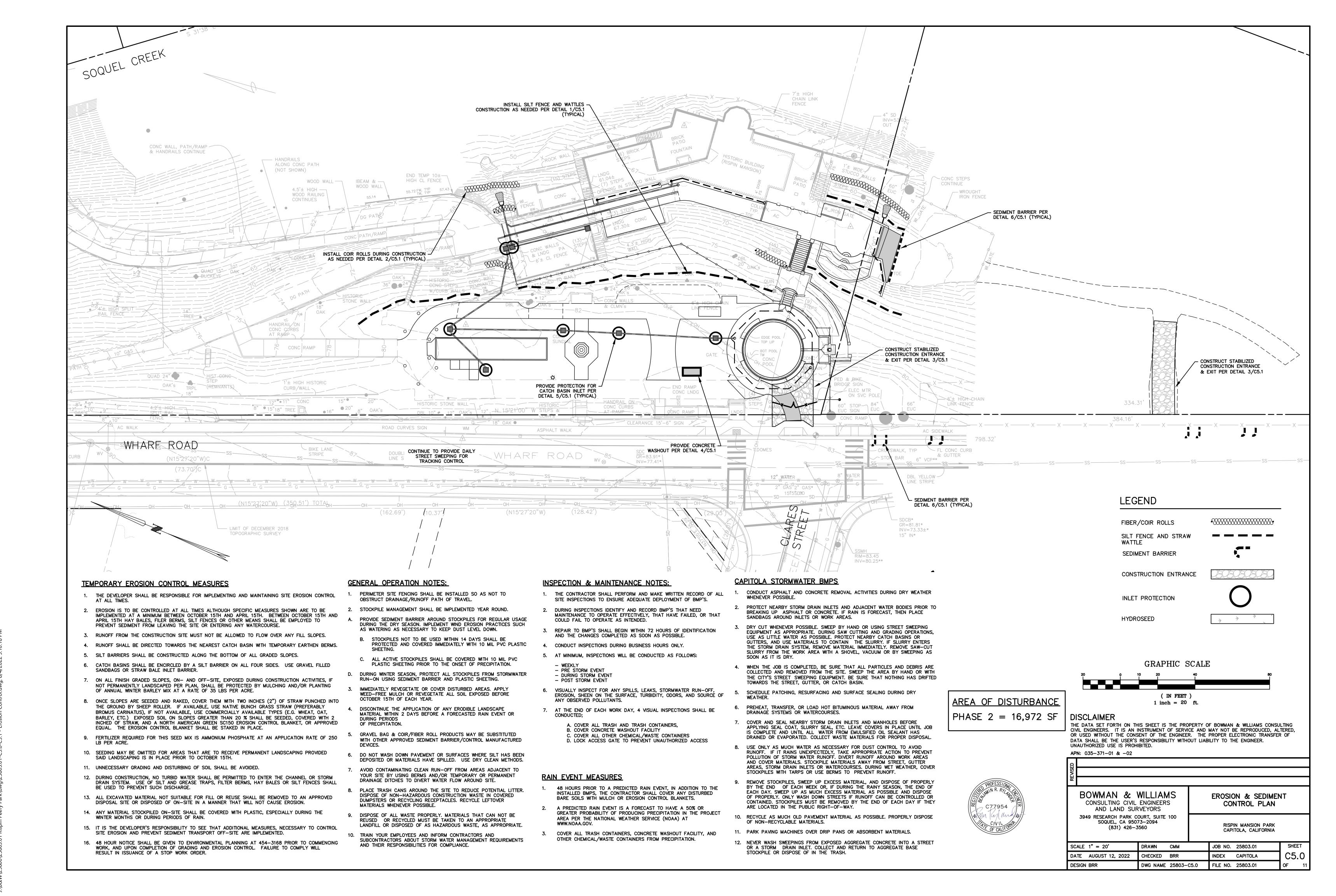
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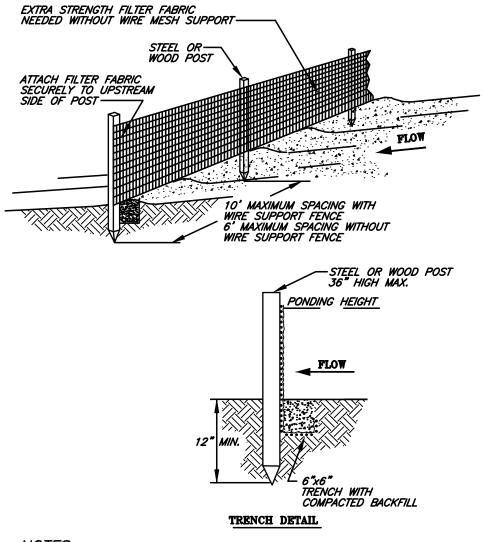
BOWMAN & WILLIAMS
CONSULTING CIVIL ENGINEERS
AND LAND SURVEYORS STORMWATER CONTROL PLAN

RISPIN MANSION PARK CAPITOLA, CALIFORNIA

DRAWN CMM JOB NO. 25803.01 CHECKED BRR INDEX CAPITOLA DWG NAME 25803.01 C4.0 FILE NO. 25803.01



13 B 8344 25800 25802 01 Disnip Boom, Bark/ Juna 25803 01-C5 0-C5 1 - Erosion Control Juna 874/2022 5:10:18 DA



1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY. 2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT. 3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF—SITE AND CAN BE PERMANENTLY STABILIZED.

SILT FENCE

GRAVEL BAG

NTS

SCALE:

CATCH BASIN

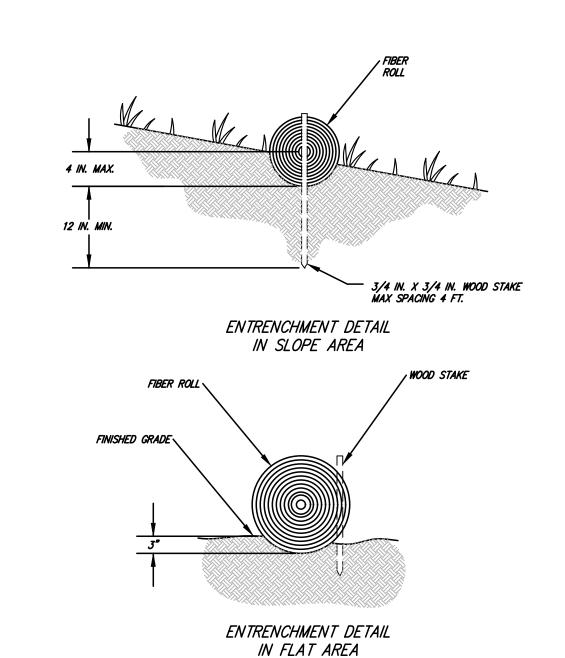
GRAVEL BAGS OR APPROVED EQUAL-STACKED TIGHTLY, 3" MAX. HIGH

PLACE COIR ROLLS/GRAVEL

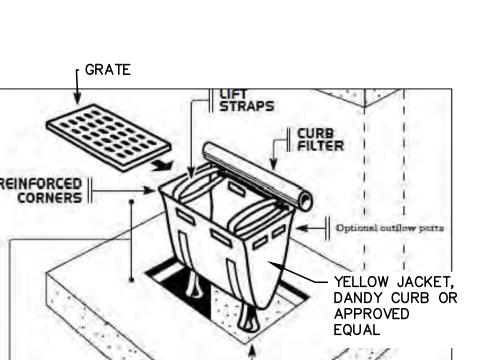
SO THAT ENDS ARE FULLY

BUTTED TOGETHER

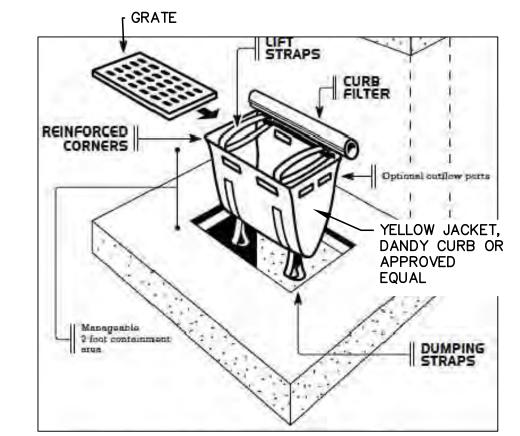
BAGS AROUND CATCH BASIN



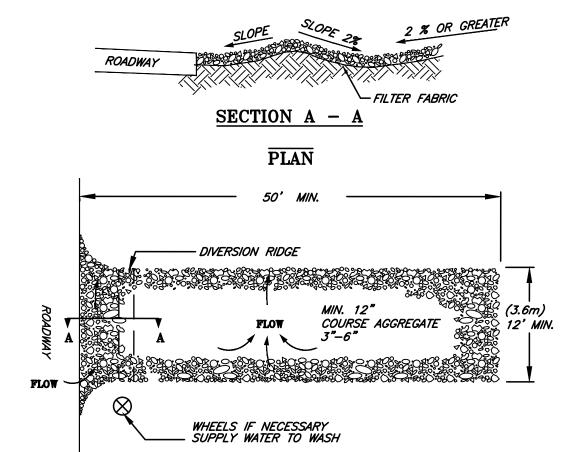




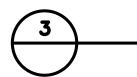
BASIN SEDIMENT CAPTURE INSERT



STORM DRAIN PROTECTION

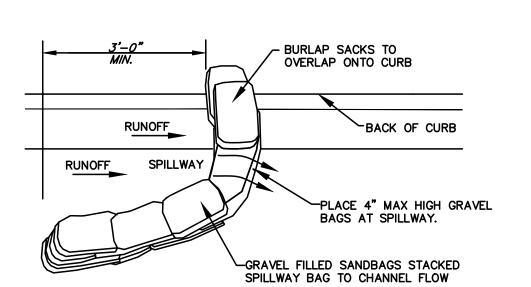


- Properly grade entrance to prevent runoff from construction site. Entrance elevation should be lower than street.
 Inspect routinely for damage and repair as needed.
- 3. Require that all employees, subcontractors and suppliers
- utilize the stabilized construction entrance.
 4. Service sediment trapping devices regularly.

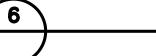


CONSTRUCTION ENTRANCE

SCALE: NTS

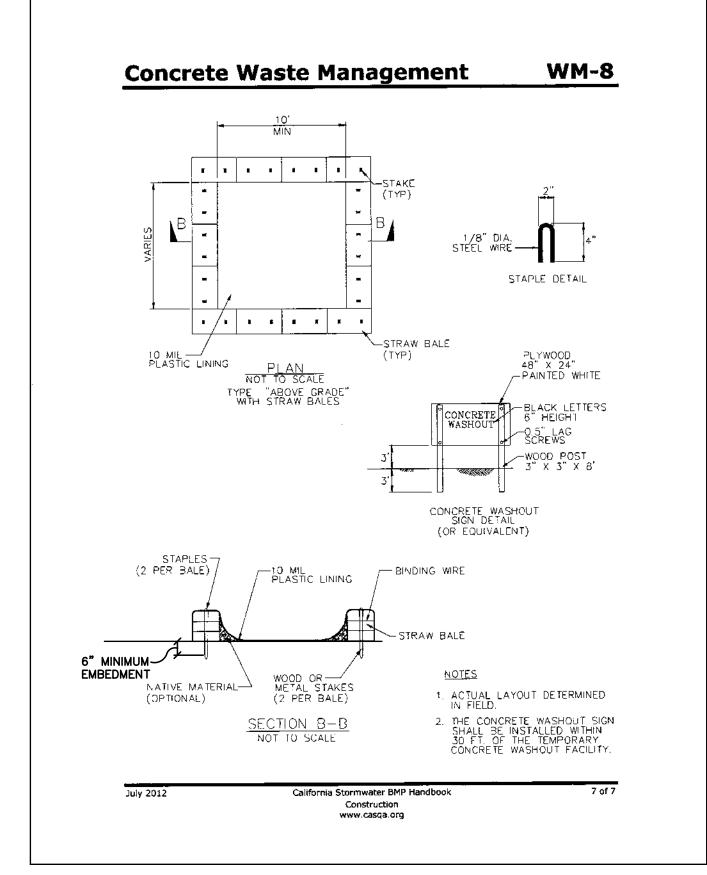


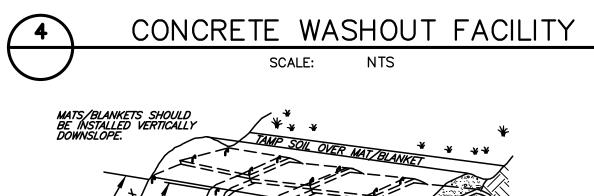
- 1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
- 2. GRAVEL/SANDBAGS OF EITHER BURLAP OR WOVEN 'GEOTEXTILE' FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
- 3. LEAVE ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR
- 4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

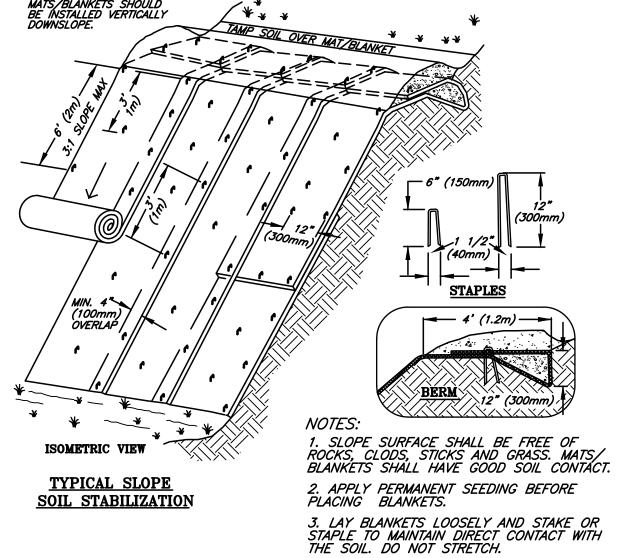


OVERFLOW.

SEDIMENT BARRIER SCALE: NTS







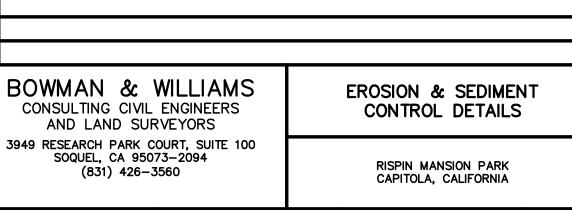
EROSION CONTROL BLANKET SCALE: NTS

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DESIGN BRR

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APN: 035-371-01 & -02



FILE NO. 25803.01

DWG NAME 25803-C5.1

SCALE:

COIR ROLL

-WOOD STAKE

SCALE AS SHOWN DRAWN JOB NO. 25803.01 DATE AUGUST 12, 2022 CHECKED BRR INDEX CAPITOLA

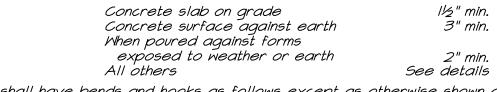
GENERAL NOTES

Site Condition: The Contractor shall examine and check all existing conditions, dimensions, levels and material and notify the Architect of discrepancies.

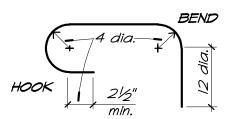
Footings: Footings shall extend a minimum of 18" below finished grade. Footings are proportioned for an allowable soil pressure of 2000 psf for dead plus live loads with a one third increase for wind or seismic. Pier footing are proportioned for an allowable passive pressure of 250 pcf. See Pacific Crest Engineering, Inc., geotechnical investigation dated January 4, 2015, project No. 15119-5269-B14.

<u>Concrete</u>: Concrete shall be proportioned to give a 28 day compressive strength of at least 2500 psi for slabs-on-grade and foundations and 3000 psi for piers, columns and deck fill. The slump shall be the minimum consistent with the condition of placing but in general shall not exceed 4 inches. Water: cement ratio shall not exceed 0.50. All concrete construction shall be in accordance with Chapter 19 of the California Building Code, 2019 Edition.

Reinforcing bars: Reinforcing bars shall be deformed bars conforming to ASTM Standard Specification A615 Grade 40 for #4 bars and smaller and Grade 60 for #5 bars and larger. Reinforcing shall be placed in as long lengths as possible. Bars shall lap 60 dia. at splices unless otherwise shown or noted on the plans, using the diameter of the larger bar in case of difference in size. Splices shall be staggered and bars may be wired together at splices. Bend steel around corners 12" minimum. All reinforcing steel shall be in accordance with Chapter 19 of the California Building Code, 2019 Edition. Bar coverage (face of bar to face of concrete) shall be as follows unless noted otherwise.



Bars shall have bends and hooks as follows except as otherwise shown or noted:



Structural and Miscellaneous Steel: Structural and miscellaneous steel shall conform to ASTM A-36. Structural steel tubes shall conform to ASTM A500, Grade B. Fabrication, erection, welding and painting shall be in accordance with the latest edition of the American Institute of Steel Construction Specifications. All steel shall be galvanized.

Lumber: Lumber shall be Douglas Fir No. 2 545 or better for 4x and smaller and Douglas Fir No.1 for 6x and larger unless otherwise shown. All lumber shall be pressure treated lumber and shall comply with the requirement of CBC Section 2301.1.8. All cut ends or pressure preservative treated lumber shall be treated to meet AWPA UI. Pieces with serious defects shall be discarded. All joists and beams shall be yard seasoned and the maximum moisture content at time of installation shall be 18% or less.

Epoxy Adhesive: Reinforcing dowels and threaded rods set in epoxy adhesive shall have 100 percent of the dowels/ rods proof tested in tension to twice the allowable tension load. Epoxy adhesive to be Simpson SET-XP adhesive per ICC ESR 2508, reissued July 2021 or approved equal.

Minimum Proof Load Tests Values and Embedments Concrete MASC

| | | | , | |
|--------------------|-------------------------|-------------------|-------------------------|------------|
| Bar Size | Direct Pull-Out Tension | Embedments | Direct Pull-Out Tension | Embedments |
| #3 bar | 4200# | 6" min.* | 2000# | 6" min.* |
| #4 bar | <i>7500</i> # | 6" min.* | <i>2300</i> # | 6" min.* |
| 1/2" dia. thrd rod | 4100# | 6" min.* | <i>2300</i> # | 6" min.* |
| 5/8" dia. thrd rod | 9400# | 6" min.* | 2900# | 6" min.* |

* Unless noted otherwise

Existing Structures: These drawings detail certain additions and revisions to existing site structures. The Engineer was not engaged to and therefore has not made a structural analysis of the existing site structures and assumes no responsibility for the structural integrity of the site structures. Wherever new work is shown to join and be attached to the existing structures, such attachment has been designed on the basis of information obtained from field observation where possible. If during construction it becomes evident that existing construction is not as indicated on these plans, the Engineer should be notified prior to any further work.

Special Inspections: The following special inspections, as required by Section 1705 of the California Building Code, 2019 Edition, shall be provided during construction on the following types of work. The Contractor shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to the Owner. The Owner shall bear costs of the test and/or inspections.

- A. Structural Welding per Section 1705.2.2 and Table 1705.2.1;
- B. Concrete (piers, columns and deck fill only) per Section 1705.3 and Table 1705.3
- C. Reinforcing steel (piers and columns only) per Section 1705.3 and Table 1705.3 D. Post Installed Anchors as noted above.
- E. Piers per 1705.8 and Table 1705.8

General Design Criteria:

<u>Seismic:</u>

```
Occupancy Category = II; I = I.O

Seismic Design Category = "D": Site Class "D"

Ss = I.82I g; S_1 = O.70g

Fa = I.2; F_V = I.5

Sms = FaSs = 2.185g

Sm_1 = F_VS_1 = null

Sds = \frac{2}{3} Sms = I.457g

SdI = \frac{2}{3} SmI = null

Longitude & Laditude

Long: -12I.95802

Lat: 36.97866

Wind:
```

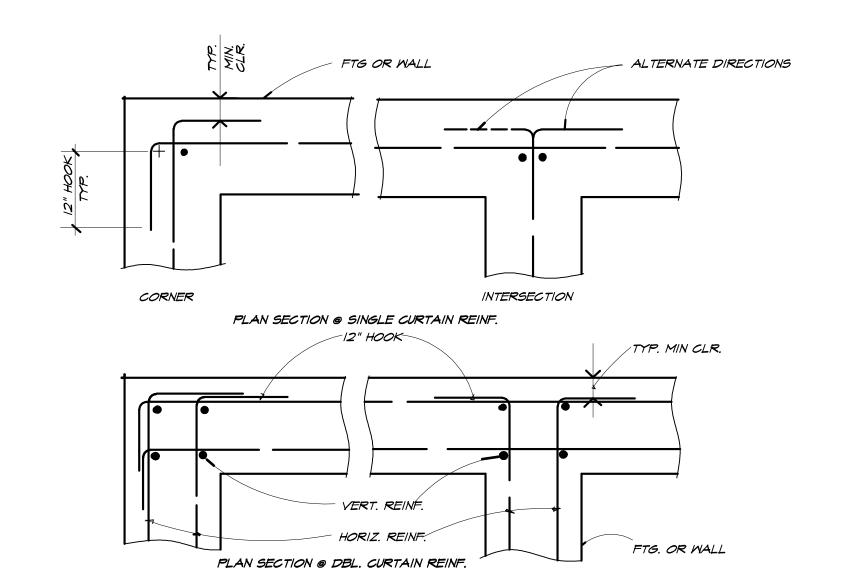
Wind Exposure "C" 92 mph wind speed

Structural Observation: During the construction the owner shall employ the structural engineer responsible for the structural design to make visits to the site to observe general compliance with the approved structural plans, specifications and change orders. The engineer shall submit a statement in writing to the building official stating the site visits have been made and that any deficiencies noted have been corrected.

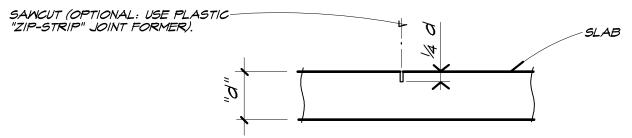
Note: All construction not specifically detailed shall be built to conform with similar construction shown and the requirements of the California Building Code, 2019 Edition.

ABBREVIATIONS

| A.B. Arch. Dwgs. Blk. Blkg. Bott. Cant. Q Clr. Col. Compl. Pen. Conc. Cont. Dbl. D.F. Dia. (E) Ea. FIr. Fnd. F.O.C. F.O.S. | = Anchor Bolt = Architectural Drawings = Block = Blocking = Beam = Bottom = Cantilever = Center Line = Clear = Column = Complete Penetration = Concrete = Continuous = Double = Douglas Fir = Diameter = Existing = Fach = Floor = Foundation = Face of Concrete = Face of Studs | Frmg. Ft. Ftg. Galv. GSM Hdr. Ht. Horiz. Jst. M.B.M. Mech. Min. (N) N.T.S. O.H. P.T.D.F. | = Framing = Foot, Feet = Footing = Gauge = Galvanized = Glulam beam = Galvanized Sheet Metal = Header = Height = Horizontal = Joist = Maximum = Machine Bolt = Metal Bldg Manufacturer = Mechanical = Minimum = New = Not to Scale = On Center = Opposite Hand = Perforated Metal Pipe = Pressure Treated Douglas Fir | Perf. Ply. Ret. Ref. Ref. Shtg. St.E.N. Vert. W.N. W.A. | = Performed = Plywood = Plate = Reinforcing = Retaining = Requirements = Roof = Room = Redwood = Solid Blocking = Sheathing = Similar = Square = Standard = Typical Edge Nailing = Tongue and Groove = Structural Steel Tube = Typical = Unless Noted = Vertical = Welded Wire Fabric = Steel Beam = Wedge Anchor |
|--|--|--|---|--|---|
|--|--|--|---|--|---|

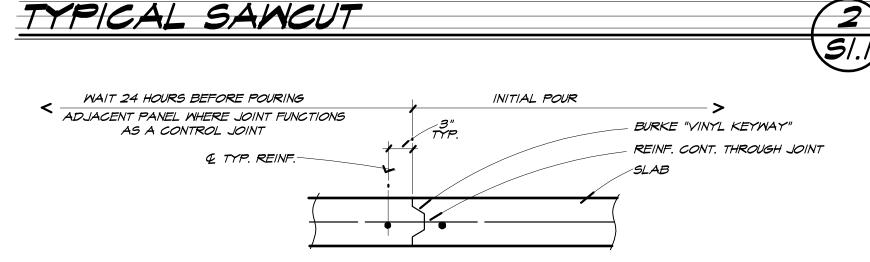






NOTES:

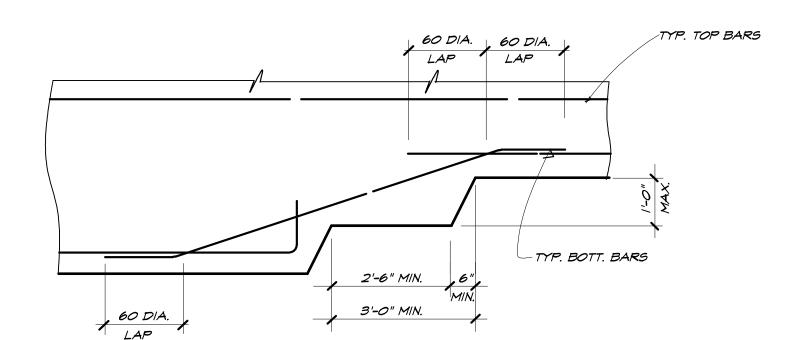
- I. AREA BTWN. SAWCUTS TO BE EQUAL TO OR LESS THAN 225 SQ.FT. COORDINATE LOCATIONS W/ ARCHITECT. SUBMIT SLAB LAYOUT PATTERN FOR REVIEW (SPACING BTWN SAWCUTS AT EXTERIOR SLABS SHALL BE LESS THAN OR EQUAL TO 10')
- 2. SAWCUT WITHIN 15 HOURS AFTER POUR.
- 3. JOINTS TO BE LOCATED AT 15'-O" o.c. MAX. THE PANEL LENGTH TO WIDTH RATIO SHALL NOT EXCEED 14 TO 1 FOR UNJOINTED SLAB AREA.



NOTES:

I. CONSTRUCTION JOINT LOCATION SHALL COINCIDE W/ THE CONTROL JOINT PATTERN. 2. CONSTRUCTION JOINTS SHALL BE USED TO FORM THE EDGE OF EA. DAYS WORK AND WHERE POURING OPERATIONS ARE SUSPENDED FOR 30 MINS OR MORE.





TYPICAL STEP FOOTING

DATE

TURAL ENGINEERS
T, SOQUEL, CA 95073
6.3681

DONALD C. URFER AND ASSOC
CIVIL AND STRUCTURAL ENGINEER!
2715 PORTER STREET, SOQUEL, CA 95073
831.476.3681

SENERAL NOTES / TYPICAL DETAIL:

SPIN MANSION PAR WHARF ROAD AND CLARES STREET

S1.1,

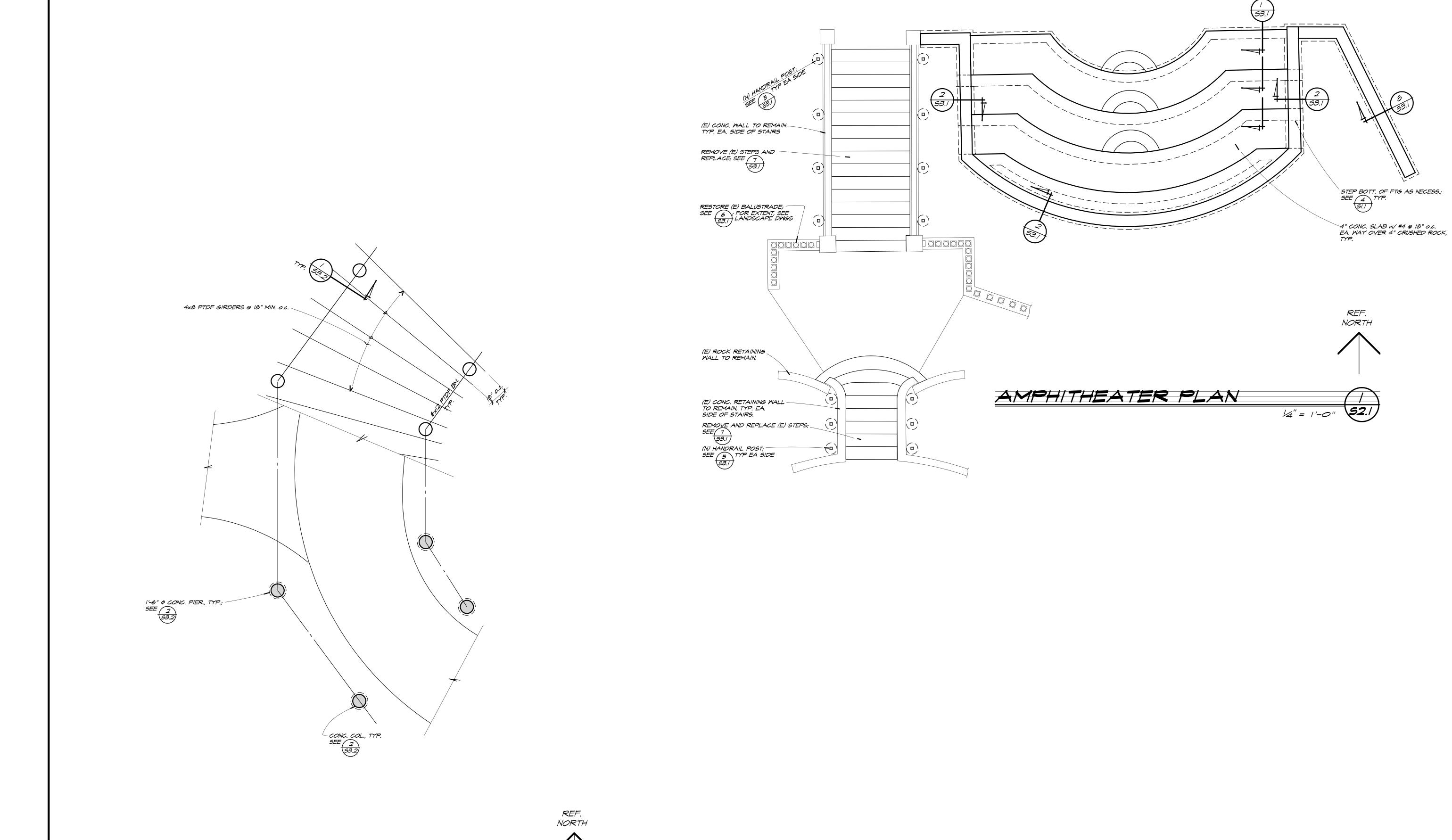
SI.1



DATE 8/12/22
SCALE

DRAWN 35

S1.1



NOTE: SEE LANDSCAPE DRAWINGS FOR DIMENSIONS

ARBOR FND/FRMG PLAN

DONALD C. URFER AND ASSOC. INC.
CIVIL AND STRUCTURAL ENGINEERS
Z715 PORTER STREET, SOQUEL, CA 95073
831.476.3681

REVISIONS

DATE

FOUNDATION AND FRAMING PL

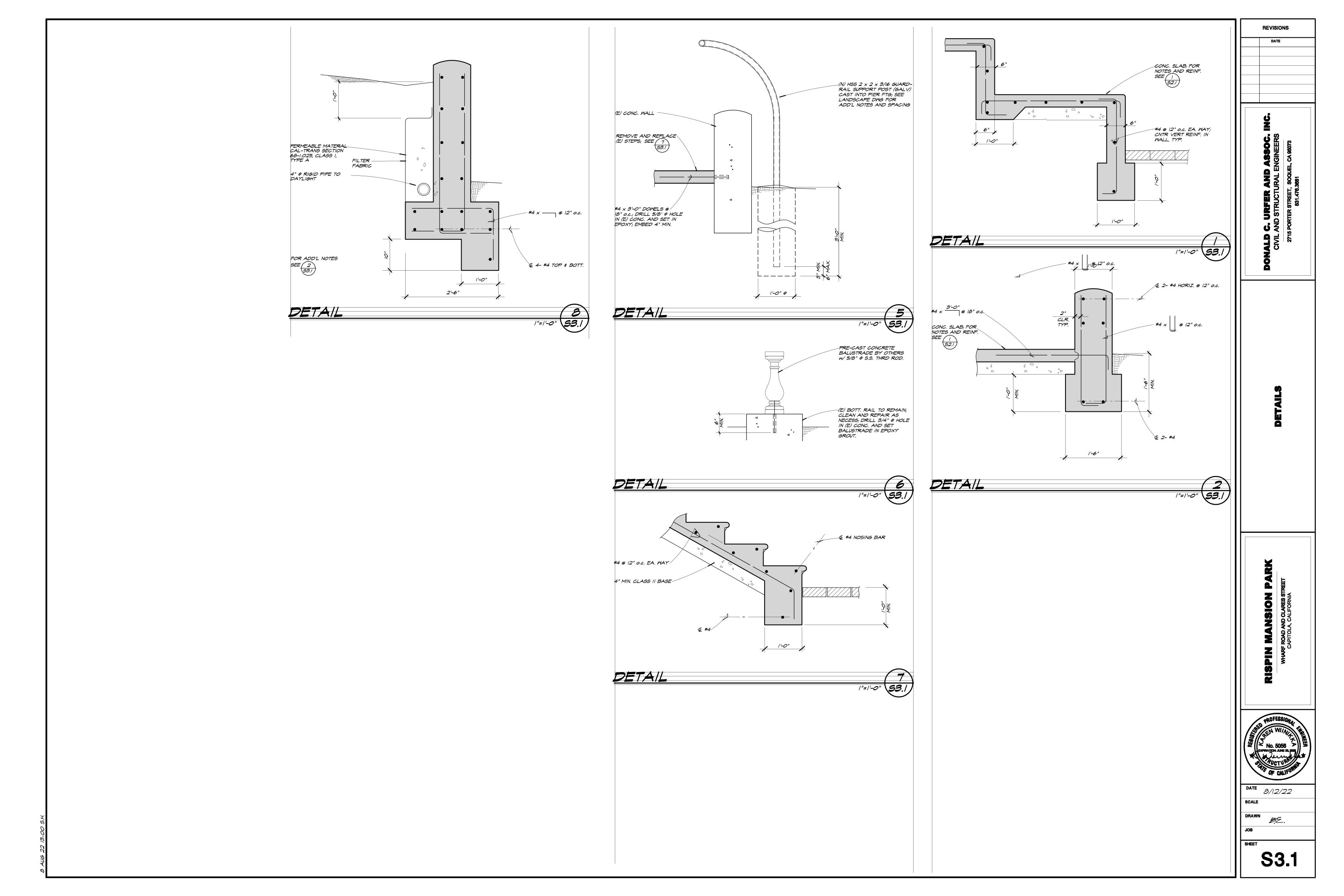
WHARF ROAD AND CLARES STREET CAPITOLA, CALIFORNIA

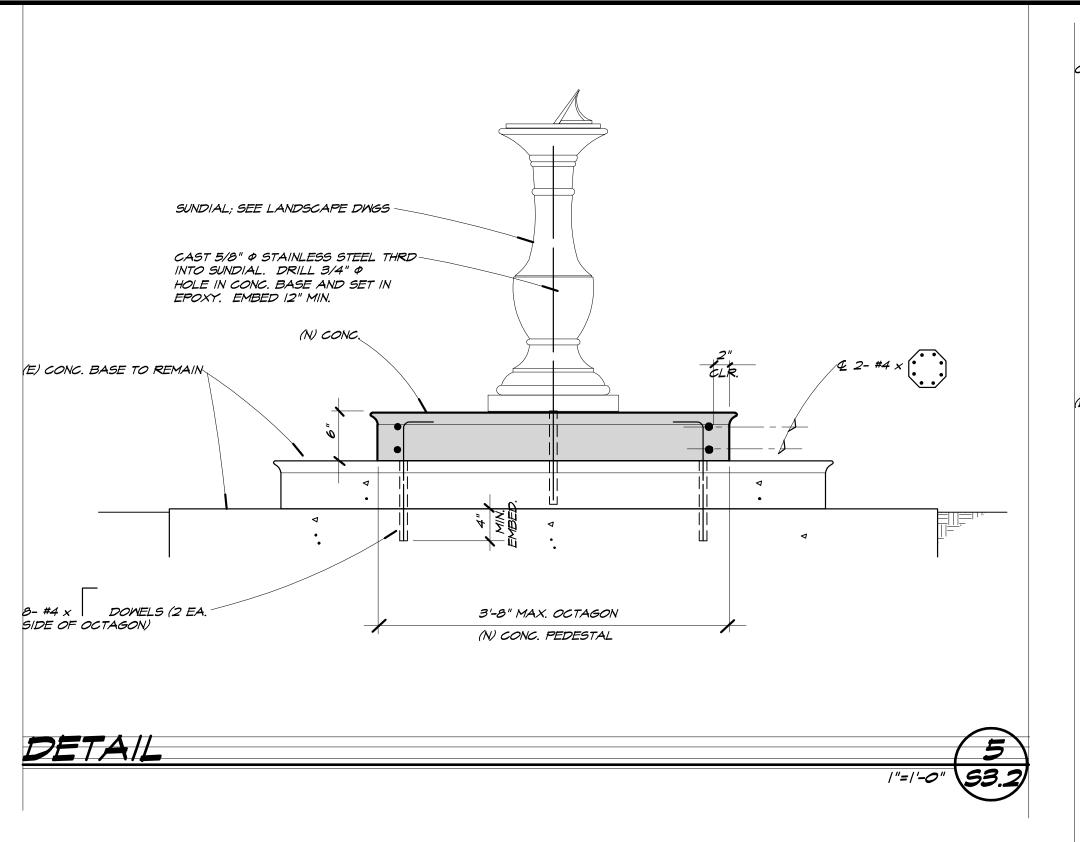


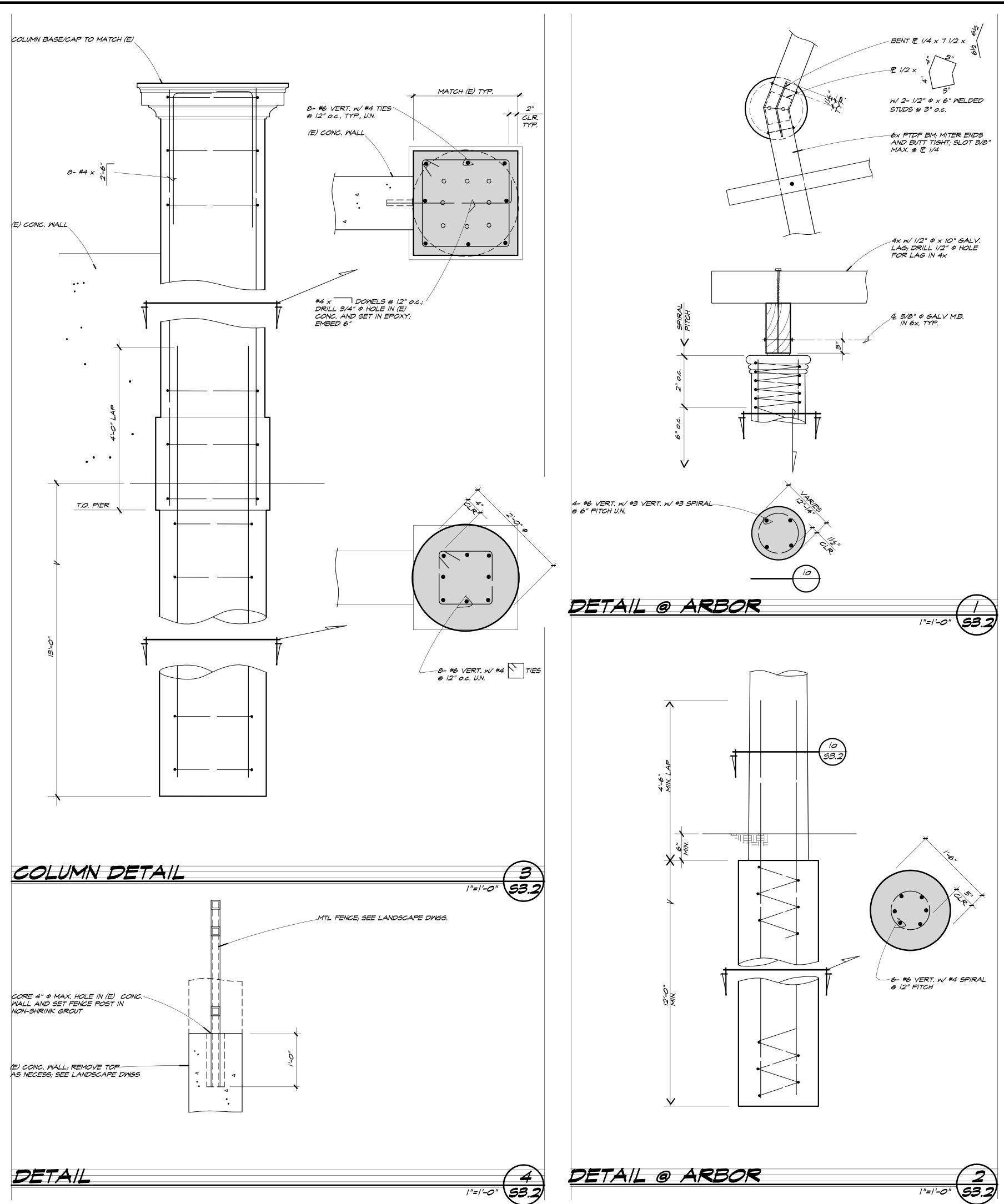
DATE 8/12/22

DRAWN BS

S2.1







DATE

NND ASSOC, INC.

RAL ENGINEERS
SOQUEL, CA 85073
881

CIVIL AND STRUCTURAL ENGINEE

Z715 PORTER STREET, SOQUEL, CA 9507
831.476.3681

DETAILS

WHARF ROAD AND CLARES STREET CAPITOLA, CALIFORNIA

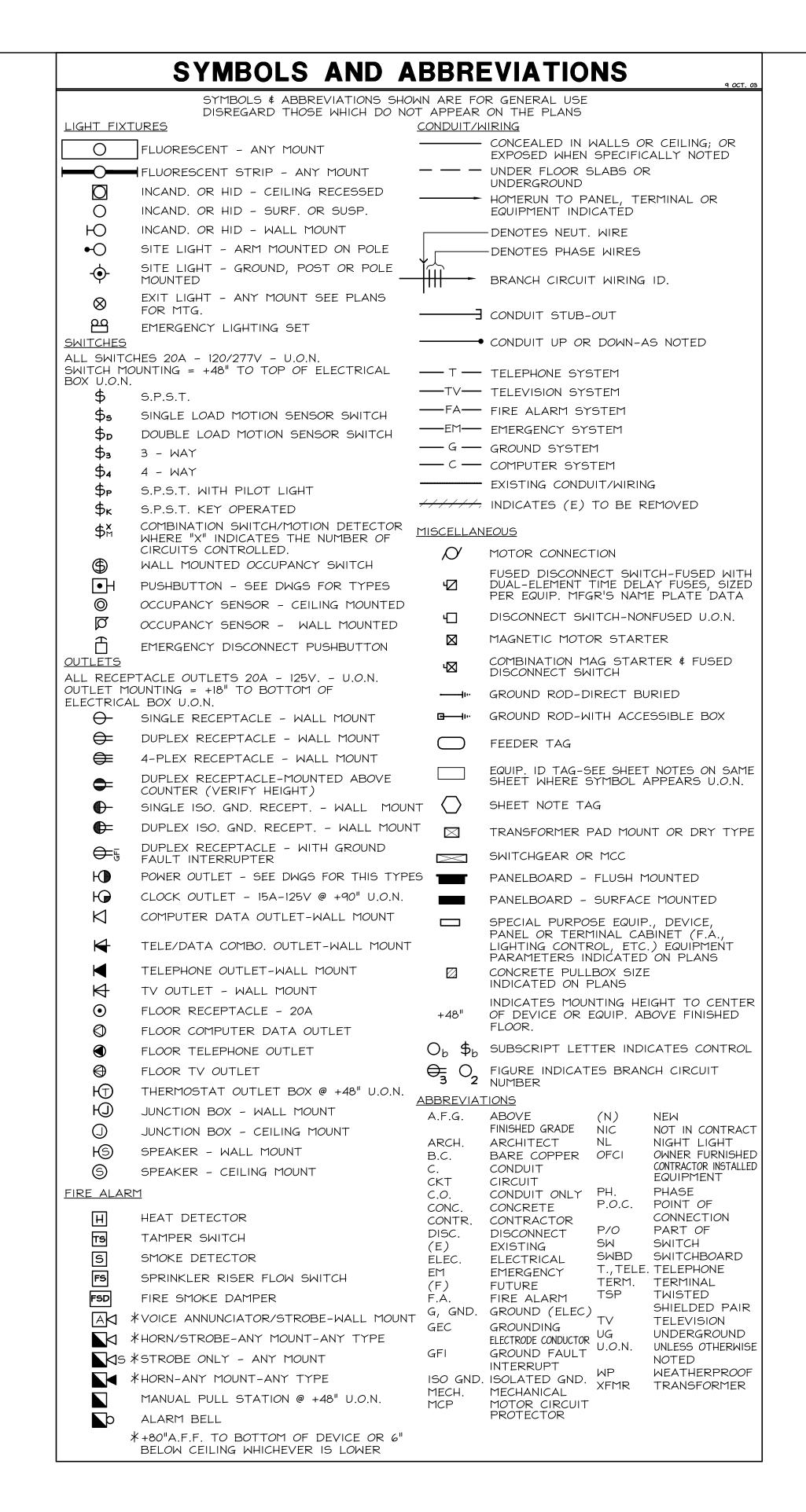


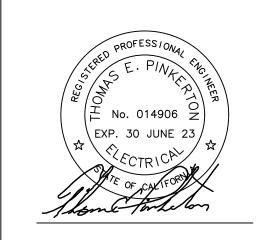
DATE 8/12/22

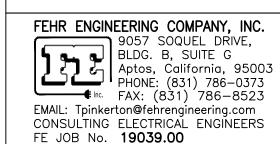
DRAWN #SE.

S3.2

| | | LIGHT FIXTURE S | CHED | ULE |
|------|------|---|------------------------------------|--|
| LOAD | TYPE | DESCRIPTION | LAMPS | MANUFACTURER |
| 65W | A | POST TOP MOUNTED LED ACORN STYLE I6" DIAMETER FIXTURE; INTEGRATED PHOTOCELL; WHITE POLYCARBONATE ACORN GLOBE WITH 5P FITTER; CUSTOM "OLD IRON" FINISH; 4ARC45T LED; I20V-277V DRIVER; 6,500 LUMENS. POLE- I6' HEIGHT; I2 POINT FLAT FLUTE; TAPERED SHAFT; BARRINGTON SS BASE; "OLD IRON" FINISH TO MATCH FIXTURE; GFIC POLE MOUNTED RECEPTACLE. PROVIDE COMPLETE FIXTURE AND POLE SUBMITTAL FOR APPROVAL. | LED SUPPLIED WITH FIXTURE | STERNBERG LIGHTING B750 SR LED SERIES |







APN 035-371-01 \$ -02

BOWMAN & WILLIAMS
CONSULTING CIVIL ENGINEERS
4949 RESEARCH PARK CT,
STE 100,
SOQUEL, CA 95073

SYMBOLS & ABBREVIATIONS

RISPIN MANSION PARK CAPITOLA, CALIFORNIA

| SCALE: AS SHOWN | DRAWN: C.L. | JOB NO. B\$W 25803.01 | SHEET |
|-----------------|---------------|------------------------|--------------|
| DATE: 8/12/22 | CHECKED: T.P. | INDEX | E1.0 |
| DESIGN: T.P. | DWG NAME | FILE NO. B\$W 25803.01 | <i>O</i> F 8 |

ELECTRICAL SPECIFICATIONS

- I. ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH THE 2019 CALIFORNIA ELECTRICAL CODE (C.E.C.) THE LATEST EDITION OF CAL/OSHA, AND ALL APPLICABLE LOCAL RULES AND REGULATIONS.
- 2. FURNISH LABOR AND MATERIAL AND INSTALL ELECTRICAL WORK COMPLETE AS SHOWN ON THE DRAWINGS. WORK SHALL INCLUDE ALL MATERIALS ON THE PLANS AND THAT WHICH IS NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION OF THE ELECTRICAL SYSTEMS SHOWN OR DESCRIBED HEREIN.
- 3. DO ALL CUTTING, PATCHING, REPAIRING NECESSARY FOR THE PROPER INSTALLATION OF WORK AND REPAIR ANY DAMAGE DONE, COORDINATING THIS WORK WITH THAT OF OTHER CRAFTS.
- 4. CONTRACTOR SHALL BE HELD TO HAVE EXAMINED THE SITE AND COMPARED IT WITH THE SPECIFICATIONS AND PLANS AND TO HAVE SATISFIED HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. HE SHALL BE HELD RESPONSIBLE FOR KNOWLEDGE OF ALL EXISTING CONDITIONS WHETHER OR NOT ACCURATELY DESCRIBED. NO SUBSEQUENT ALLOWANCE SHALL BE MADE FOR ANY EXTRA EXPENSE DUE TO FAILURE TO MAKE SUCH EXAMINATION.
- 5. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL MATERIALS SHALL BE NEW AND U.L. LISTED.
- 6. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY FACILITIES FOR TEMPORARY CONSTRUCTION POWER. ENERGY COSTS SHALL BE PAID BY OWNER.
- 7. PAY ALL INSPECTION AND OTHER APPLICABLE FEES; PROCURE ALL LICENSES AND PERMITS NECESSARY TO THE PROSECUTION AND COMPLETION OF ELECTRICAL WORK.
- 8. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS INSTALLED UNDER THIS CONTRACT FOR A PERIOD OF ONE (I) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CONTRACTOR IS NOT REQUIRED TO GUARANTEE LAMPS AFTER ACCEPTANCE.
- 9. VERIFY EXISTING CONDITIONS IN FIELD AND MAKE ADJUSTMENTS AS REQUIRED TO SUIT SUCH CONDITIONS.
- 10. ALL WORK REQUIRING INTERRUPTION OF EXISTING CIRCUITS, USE OF OWNER'S FACILITIES, OR DISRUPTION OR INTERRUPTION OF ONGOING OWNER ACTIVITIES SHALL BE COORDINATED WITH THE OWNER.
- II. AS-BUILTS: SUBMIT TO THE OWNER ONE (I) MARKED UP PRINT OF "AS-BUILT" CONDITIONS OF ALL WORK UNDER THIS SECTION.
- 12. SAFETY PRECAUTIONS: PROVIDE AND MAINTAIN THROUGHOUT THE WORK ADEQUATE SAFEGUARDS INCLUDING BARRIERS, WARNING SIGNS, ENCLOSURES AND LIGHTS, TO PREVENT ACCIDENTAL INJURY TO PERSON OR DAMAGE TO PROPERTY.
- 13. PROTECTION: PROTECT ALL WORK, MATERIALS AND EQUIPMENT FROM DAMAGE FROM ANY CAUSE WHATSOEVER AND PROVIDE ADEQUATE AND PROPER STORAGE FACILITIES DURING THE PROGRESS OF THE WORK. PROVIDE FOR THE SAFETY AND GOOD CONDITION OF ALL WORK UNTIL FINAL ACCEPTANCE OF WORK BY THE OWNER, AND REPLACE ALL DAMAGED OR DEFECTIVE WORK, MATERIALS, AND EQUIPMENT BEFORE REQUESTING FINAL ACCEPTANCE.
- 14. DRAWINGS: THE GENERAL ARRANGEMENT OF OUTLETS, AND EQUIPMENT, AS SHOWN ON THE PLANS, IS DIAGRAMMATIC AND APPROXIMATELY CORRECT AS TO THE LOCATIONS, WHERE MINOR CHANGES ARE REQUIRED BECAUSE OF STRUCTURAL CONDITIONS OR FOR THE CONVENIENCE OF THE OWNER. SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE LOCATIONS OF ALL OUTLETS, ETC., WITH RESPECT TO THE WORK OF OTHERS. NO EXTRAS WILL BE ALLOWED ON ACCOUNT OF MOVING WORK UNDER THIS SECTION TO AVOID INTERFERENCE WITH WORK OF OTHER CONTRACTORS.
- 15. SUBMITTALS: CONTRACTOR SHALL SUBMIT A COMPLETE LIST OF ALL PROPOSED MATERIALS AND EQUIPMENT WITHIN 15 DAYS OF AWARD OF CONTRACT. CONTRACTOR SHALL MAKE NO SUBSTITUTIONS OF MATERIALS OR EQUIPMENT WITHOUT WRITTEN APPROVAL OF THE OWNER. ALL DIMENSIONAL OR ELECTRICAL CHANGES, OR CHANGES TO OTHER WORK WHICH ARE REQUIRED BY, OR ARE A RESULT OF, AN ACCEPTABLE ELECTRICAL SUBSTITUTION SHALL BE THE SOLE AND COMPLETE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- 16. INSPECTION: ALL WORK AND MATERIALS COVERED BY THIS SPECIFICATION SHALL BE SUBJECT TO INSPECTION AT ANY AND ALL TIMES BY REPRESENTATIVES OF THE OWNER. WORK SHALL NOT BE CLOSED IN OR COVERED BEFORE INSPECTION AND APPROVAL BY THE OWNER OR HIS REPRESENTATIVE. ANY MATERIAL FOUND NOT CONFORMING WITH THESE SPECIFICATIONS SHALL, WITHIN 3 DAYS AFTER BEING NOTIFIED BY THE OWNER, BE REMOVED FROM PREMISES; IF SAID MATERIAL HAS BEEN INSTALLED, ENTIRE EXPENSE OF REMOVING AND REPLACING SAME, INCLUDING ANY CUTTING AND PATCHING THAT MAY BE NECESSARY, SHALL BE BORNE BY THIS CONTRACTOR.
- 17. TESTS: UPON COMPLETION OF WORK AND ADJUSTMENT OF ALL EQUIPMENT, ALL SYSTEMS SHALL BE TESTED UNDER THE DIRECTION OF THE OWNER TO DEMONSTRATE THAT ALL EQUIPMENT FUNCTIONS ELECTRICALLY IN THE MANNER REQUIRED. ALL SYSTEMS SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS AND SHALL BE FREE FROM MECHANICAL AND ELECTRICAL DEFECTS. ALL CIRCUITS SHALL BE TESTED FOR PROPER NEUTRAL CONNECTIONS. CONTRACTOR SHALL REMOVE AND REPLACE ALL DEFECTIVE WORKMANSHIP AND/OR MATERIALS AT NO EXPENSE TO OWNER.
- 18. CLEANUP: AT COMPLETION OF WORK, THIS CONTRACTOR SHALL CLEAN UP AND REMOVE ALL DEBRIS AND MATERIALS NOT INSTALLED IN WORK, LEAVING PREMISES CLEAN.

19. CONDUCTORS;

- 20. CONDUCTORS SHALL BE INSULATED COPPER, NO. 12 AWG MINIMUM SIZE, THHN/THWN, 600 VOLT, SOLID OR STRANDED (EXCEPT FOR LOW VOLTAGE WIRING AND WHERE SPECIFICALLY NOTED OTHERWISE ON THE PLAN)
- 21. ALL CONDUCTORS NO. 8 AND LARGER SHALL BE STRANDED.
- 22. WIRE COLOR CODE SHALL BE AS FOLLOWS:

120/240V

A PHASE - BLACK

B PHASE - RED

C PHASE -
NEUTRAL - WHITE

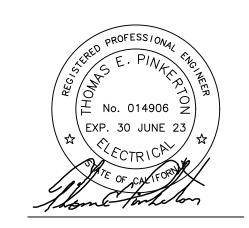
GROUND - GREEN

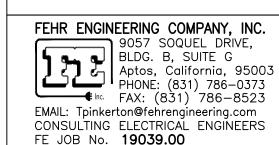
- 23. FOR CONDUCTORS NO. 6 AND LARGER, INSULATION COLOR MAY BE BLACK WITH TAPE BANDS (COLORED PER ABOVE) LOCATED AT EACH END OF THE CONDUCTOR RUN AND AT ALL OTHER LOCATIONS REQUIRED BY THE
- 24. ALL CONDUCTORS SHALL BE RUN IN APPROVED RACEWAY U.O.N.
- 25. CONDUCTOR SPLICES: JOIN THE CONDUCTORS SECURELY, BOTH MECHANICALLY AND ELECTRICALLY USING SCREW-ON TYPE CONNECTORS FOR WIRE SIZES AWG#6 AND SMALLER. THE PREFERRED PRODUCT IS WIRE-NUT® TWIST ON CONNECTOR BY IDEAL.
- 26. USE HIGH COMPRESSION BARREL SPLICES FOR CONDUCTORS LARGER THAN AWG#6. THE PREFERRED BARREL SPLICE IS BURNDY HYLINK™ SPLICE. THE SPLICED AREA SHALL BE COVERED TO PROVIDE EQUAL OR GREATER INSULATION THAN THAT OF THE ADJOINING CONDUCTORS. INSULATION OVER THE ORIGINAL INSULATION SHALL EXTEND 3 TO 5 OVERALL DIAMETERS OF THE INSULATED WIRE. THE PREFERRED INSULATION PRODUCT IS COLD SHRINK™ BY 3-M COMPANY.

27. CONDUIT AND WIREWAYS:

- 28. ALL CONDUITS SHALL BE U.L. LISTED AND BEAR THE LABEL OF THE NATIONAL BOARD OF FIRE UNDERWRITERS.
- 29. RIGID NONMETALLIC CONDUIT: SCHEDULE 40 PVC PLASTIC FOR UNDERGROUND OR UNDER SLAB INSTALLATIONS, RATED 90 DEGREES C. WITH GLUE-ON PVC COUPLINGS AND FACTORY MADE ELBOWS AND SWEEPS; CARLON "PLUS 40".
- 30. RIGID STEEL CONDUIT (GRS): HOT-DIPPED GALVANIZED WITH THREADED ONE-PIECE COUPLINGS AND FACTORY MADE ELBOWS. NIPPLES THROUGH 12" IN LENGTH SHALL BE FACTORY MADE. CONNECTORS THREADED TYPE WITH BONDING LOCKNUT, INSULATED THROAT AND NEOPRENE O-RING. PROVIDE GRS FOR OUTDOOR INSTALLATIONS EXPOSED TO WEATHER.
- 31. GENERAL PURPOSE WIREWAYS AND AUXILIARY GUTTERS: GALVANIZED SHEET STEEL WITH SCREW COVERS AND ANSI-49 GRAY EPOXY PAINT FINISH OVER A CORROSION RESISTANT PHOSPHATE PRIMER. NEMA-1 FOR INDOOR USE, NEMA-3R (RAINTIGHT) FOR OUTDOOR USE.
- 32. NO ELECTRICAL CONDUITS SHALL BE COVERED BEFORE INSPECTION AND APPROVAL BY THE OWNER. CONTRACTOR SHALL NOTIFY OWNER THAT CONDUITS ARE READY FOR INSPECTION PRIOR TO INSTALLATION OF CONDUCTORS.
- 33. CONDUITS SHALL BE INSTALLED IN A RIGID AND SATISFACTORY MANNER WITH SUPPORT SPACED NOT MORE THAN 8 FEET APART U.O.N. CONDUITS SHALL BE INSTALLED TO OUTLET BOXES WITH LOCKNUTS AND BY BUSHING OR OTHER APPROVED DEVICES. CONDUITS SHALL BE JOINED BY APPROVED CONDUIT COUPLINGS AND SHALL HAVE ENDS BUTTED IN ALL CASES WHERE COUPLINGS ARE USED. CONDUITS SHALL BE TIGHTLY CORKED AND OTHERWISE WELL PROTECTED DURING CONSTRUCTION AND BLOWN OUT AND SWABBED BEFORE WIRES ARE PULLED. REAM ALL CONDUITS ENDS AFTER CUTTING. BENDS SHALL BE MADE WITH STANDARD CONDUIT ELBOWS OR CONDUIT BENT TO NOT LESS THAN SAME RADIUS. ALL BENDS SHALL BE FREE FROM DENTS OR FLATTENING.
- 34. PVC CONDUITS: MAKE COUPLINGS AND CONNECTORS WATERTIGHT IN ALL RUNS. UTILIZE SOLVENT CEMENT OF TYPE APPROVED BY CONDUIT MANUFACTURER. PROVIDE ADAPTERS AND LOCKNUTS WHERE CONDUIT IS ATTACHED TO METAL BOXES AND PANELS.
- 35. RACEWAY RUNS SHOWN ON DRAWINGS ARE DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. DETERMINE EXACT LOCATIONS OF ALL UNDIMENSIONED RACEWAY RUNS IN FIELD.
- 36. LOCATIONS AND ROUTES OF EXPOSED RACEWAYS REQUIRE OWNER APPROVAL PRIOR TO INSTALLATION. PREPARE LAYOUTS OF PROPOSED EXPOSED RACEWAY LOCATIONS/ROUTES AND COORDINATE WITH THE OWNER.
- 37. COORDINATE PLANNED ROUTES WITH WORK OF OTHER TRADES, INCLUDING MECHANICAL, PLUMBING AND FIRE SPRINKLER.
- 38. LIGHTING FIXTURES: LIGHT FIXTURES SHALL BE FURNISHED AND INSTALLED COMPLETE WITH LAMPS, DRIVERS, ETC., AND READY FOR SERVICE IN ACCORDANCE WITH THE DRAWINGS. TYPES SHALL BE AS SHOWN ON THE DRAWINGS. FIXTURE SUPPORTS SHALL BE OF DESIGN TO RESIST EARTHQUAKE FORCES OF SEISMIC ZONE 4.
- 39. WIRING DEVICES:
- 40. SWITCHES: 20 AMP, 120/277 Vac PASS & SEYMOUR #20ACI (SPST) OR EQUAL; RECEPTACLES: DUPLEX, 20A, 125V, 3-WIRE GROUNDING, PASS & SEYMOUR #5352 OR EQUAL. ALL OTHER DEVICES SHALL BE AS NOTED ON DRAWINGS. ALL DEVICES SHALL BE COLORED IVORY. DEVICE PLATES: SMOOTH FINISH PLASTIC, COLORED TO MATCH DEVICE.

- 41. GROUNDING: ALL DEVICES, FIXTURES, RACEWAY, EQUIPMENT ETC. SHALL BE GROUNDED VIA A GROUNDING CONDUCTOR RUN THROUGH THE RACEWAY OR CABLE. WIRING DEVICES SHALL BE GROUNDED THROUGH A COPPER WIRE, SIZED TO COMPLY WITH CODES. A GROUNDING CONDUCTOR SIZED TO COMPLY WITH CODES SHALL BE INSTALLED IN ALL CONDUITS AND CABLES.
- 42. GROUND RODS: COPPER OR COPPER-CLAD STEEL, MINIMUM 3/4"
 DIAMETER. PROVIDE MINIMUM 8 FOOT LONG RODS WHERE DIRECT BURIED
 (NON-ACCESSIBLE) AND MINIMUM 10 FOOT LONG RODS WHERE INSTALLED
 IN GROUND WELLS OR OTHER ACCESSIBLE LOCATIONS.
- 43. JUNCTION, PULL, DEVICE, AND FIXTURE OUTLET BOXES SHALL BE GALVANIZED SHEET STEEL FOR CONCEALED WORK CAST METAL FOR EXPOSED WORK, AND SHALL HAVE VOLUMES AS REQUIRED BY C.E.C. NO BOXES SMALLER THAN 4" SQUARE (OR OCTAGON FOR LIGHTING OUTLETS) SHALL BE INSTALLED, EXCEPT WHERE SPECIFICALLY CALLED FOR ON PLANS. PLASTIC BOXES ARE NOT PERMITTED.
- 44. CONCRETE PULL BOXES: PRE-CAST, REINFORCED CONCRETE CONSTRUCTION WITH END AND SIDE KNOCKOUTS, NONSETTLING SHOULDERS, EXTENSIONS AS REQUIRED, AND CONCRETE BASES WITH DRAIN HOLE. UNLESS OTHERWISE INDICATED, PROVIDE REINFORCED CONCRETE LIDS WITH HOLD-DOWN BOLTS AND LIFTING PROVISIONS. LIDS SHALL BE LABELED AS NOTED ON THE DRAWINGS. BOXES LOCATED IN VEHICULAR TRAFFIC AREAS SHALL HAVE H/20 LOADING RATING AND CHECKER PLATE STEEL COVERS WITH HOLD-DOWN BOLTS. BOXES SHALL BE OF SIZES INDICATED ON THE DRAWINGS AND SHALL BE MANUFACTURED BY CHRISTY, BROOKS, UTILITY VAULT CO., OR APPROVED EQUAL.
- 45. DISCONNECT AND SAFETY SWITCHES: DISCONNECTS SHALL BE EXTERNALLY OPERABLE SAFETY SWITCHES WITH QUICK-MAKE, QUICK-BREAK MECHANISM CAPABLE OF SWITCHING TEN (10) TIMES SWITCH RATING, AND WITH COVER INTERLOCK WITH DEFEAT MECHANISM FOR MAINTENANCE. PROVIDE SWITCHES WITH NUMBER OF POLES, AMPERAGE, VOLTAGE, [HP RATINGS], TYPES OF ENCLOSURES AND FUSIBLE OR NON-FUSIBLE AS INDICATED AND AS REQUIRED FOR THE PARTICULAR APPLICATION. SWITCHES SHALL BE GENERAL [HEAVY] DUTY TYPE UNLESS OTHERWISE INDICATED. PROVIDE NEMA-I ENCLOSURES FOR INDOOR (NEMA 3R FOR OUTDOORS) LOCATIONS UNLESS OTHERWISE INDICATED. ALL DISCONNECT SWITCHES SHALL BE EQUIPPED WITH DEVICES ENABLING THE SWITCH TO BE EXTERNALLY LOCKED IN THE OPEN POSITION.
- 46. BRANCH CIRCUIT BREAKERS SHALL BE OF THE SAME TYPE AND SAME A.I.C. RATING TO MATCH EXISTING PANEL, U.O.N. SEE PANEL BOARD SCHEDULES.
- 47. IDENTIFICATION OF SWITCHES AND APPARATUS: ALL PANELBOARDS, CONTROL DEVICES, DISCONNECT SWITCHES, FEEDER BREAKERS AND MAIN BREAKER ON ELECTRIC SWITCHBOARDS, AND ALL OTHER APPARATUS USED FOR CONTROL OR OPERATION OF CIRCUITS, APPLIANCES AND EQUIPMENT, SHALL BE IDENTIFIED WITH ENGRAVED LAMICOID NAMEPLATES SECURELY FASTENED IN PLACE WITH CADMIUM PLATED SELF-TAPPING SCREWS. NAMEPLATE 1/4" LETTERING (BLACK LETTERS-WHITE FIELD).





APN 035-371-01 \$ -02

BOWMAN & WILLIAMS

CONSULTING CIVIL ENGINEERS

4949 RESEARCH PARK CT,

STE 100,

SOQUEL, CA 95073

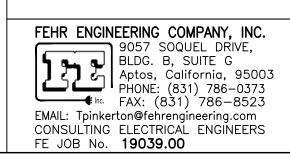
ELECTRICAL SPECIFICATION

RISPIN MANSION PARK CAPITOLA, CALIFORNIA

| SCALE: AS SHOWN | DRAWN: C.L. | JOB NO. B\$W 25803.01 | SHE | ET |
|-----------------|---------------|------------------------|-----|----|
| DATE: 8/12/22 | CHECKED: T.P. | INDEX | E1 | .1 |
| DESIGN: T.P. | DWG NAME | FILE NO. B\$W 25803.01 | 0F | 8 |

| NRCC-LTO-E CERTIFICATE OF COMPLIANCE Project Name: Rispin N Project Address: | | | Outdoor Lighting | | | Outdoor Lighting | | |
|--|---|--|--|--|--|--|--|--|
| Project Name: Rispin M | | CALIFORNIA ENERGY COMMISSION | NRCC-LTO-E CERTIFICATE OF COMPLIANCE | | CALIFORNIA ENERGY COMMISSION NRCC-LTO-E | NRCC-LTO-E CERTIFICATE OF COMPLIANCE | | CALIFORNIA ENERGY COMMISSION |
| | Mansion Park Report Page: | NRCC-LTO-E | | spin Mansion Park Report Page: | (Page 2 of 6) | | Rispin Mansion Park Report Page: | NRCC-LTG (Page 3 of |
| | Warf Road Date Prepared: | (Page 1 of 6) 6/28/2022 | Project Address: | Warf Road Date Prepared: | 6/28/2022 | Project Address: | Warf Road Date Prepared: | 6/28/20 |
| | | | | | _ | | | |
| A. GENERAL INFORMATION | | | C. COMPLIANCE RESULTS | | | F. OUTDOOR LIGHTING FIXTURE SCHEDULE | | |
| 01 Project Location (city) Capitola 02 Climate Zone 3 | 04 Total Illuminated Hardscape Area (ft²) 4785 | 50 | Results in this table are automatically calculated from data input and calculated from the Results in this table are automatically calculated from data input and calculated from the Results in this table are automatically calculated from data input and calculated from the Results in this table are automatically calculated from data input and calculated from data input a | | s "COMPLIES with Exceptional Conditions" refer | For new or altered lighting systems demonstrating compliance with <u>\$140</u> covered by the permit application are included in the Table below. For all | | |
| 03 Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Au | Ithority Having Jurisdiction (AHJ): | | to Table D. Exceptional Conditions for guidance or see applicable Table reference Calculations of Total Allowed Lighting Power (Watts) | | Compliance Results | replacement luminaires being installed as part of the project scope are in | | |
| LZ-0: Very Low - Undeveloped Parkland | reas | Commission for Approval | 01 02 03 04 | 05 06 07 | 08 09 | Designed Wattage: | | |
| ☐ LZ-1: Low - Developed Parkland ☐ LZ-3: Moderately High - U | Jrban Areas | | General Per Sales | Per Specific Existing | | 01 02 03 | 04 05 06 0 | 7 08 09 10 |
| B. PROJECT SCOPE | | | Allowance + Application + Frontage + Ornamental | + Area OR Power = Total Allowe | | Name or Item Complete Lyminaire Description Watts po | er How is Total number Luminaire Exclud | ed per 6,200 initial Inspector |
| This table includes outdoor lighting systems that are within the scope of the perm | nit annlication and are demonstrating compliance using the prescript | ative nath outlined in \$140.7 or | §140.7(d)1 (See Table I) (See Table I) | (Watts) | (Watts) | Name or Item Tag Complete Luminaire Description Iuminaire | | .7(a) Design Watts Jumen output |
| \$141.0(b)2L for alterations. | and application and are demonstrating compliance asing the prescript | ave path outlined in <u>\$240.7</u> | (See Table I) | (See Table N) | | | determined | §130.2(b) 4 Pass Fa |
| My Project Consists of: | | | 1,783.75 + + + | + OR = 1,783.75 See Table G for Details) | ≥ 455 COMPLIES N/A | A 65 Watt Pole 🗆 Linear 65 | Mfr. Spec 7 New [|] 455 NA: < 6200 D C |
| 01 | 02 | | | See Table H for Details) | COMPLIES | | Total Design | |
| 0 0 1 | oly with Allowances from §140.7 eration increasing the connected lighting load (Watts)? | Yes No | | | 301.11 | * NOTES: Selections with a * require a note in the space below explaining how co | | |
| 03 | 04 | 05 | D. EXCEPTIONAL CONDITIONS | | | EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b) | C | The second secon |
| % of Existing Luminaires Being Altered ¹ Sum Total | I of Luminaires Being Added or Altered Calcu | ulation Method | This table is auto-filled with uneditable comments because of selections ma | de or data entered in tables throughout the form. | | ¹ FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to c ² For linear luminaires, wattage should be indicated as W/lf instead of Watts/lum | | of number of luminaires. |
| □ < 10% □ >= 10% and < 50% □ >= 50% | | | E. ADDITIONAL REMARKS | | | ³ Select "New" for new luminaires in a new outdoor lighting project, or for added | l luminaires in an alteration. Select "Altered" for replacement lumi | naires in an alteration. Select "Existing to Remain" |
| Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the proje | ect's luminaires. | | This table includes remarks made by the permit applicant to the Authority F | lavina Jurisdiction. | | for existing luminaires within the project scope that are not being altered and are the project scope. | e remaining. Select "Existing Reinstalled" for existing luminaires w | hich are being removed and reinstalled as part of |
| ¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires | Being Added or Altered / Existing Luminaires within the Scope of the | Permit Application) x 100. | | → | | ⁴ Compliance with mandatory cutoff requirements is required for luminaires with | n initial lumen output >= 6,200 unless exempted by <u>§130.2(b)</u> | |
| | | | | | | G. CUTOFF REQUIREMENTS (BUG) | | |
| | | | | | | This section does not apply to this project. | | |
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| Registration Number: | Registration Date/Time: | Registration Provider: Energysoft | registration Number. | Registration Date/Time: | Registration Provider: Energysoft | Registration Number: | Registration Date/Time: | Registration Provider: Energyso |
| CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Re Schema Version: rev 20200601 | Report Generated: 2022-06-28 08:01:31 | CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-06-28 08:01:31 | CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-06-28 08:01:3 |
| | Schema version, nev 20200001 | | | Schema version, nev 20200001 | | | Schema version. Tev 2020001 | |
| STATE OF CALIFORNIA | | | STATE OF CALIFORNIA | | | STATE OF CALIFORNIA | | |
| Outdoor Lighting | | | Outdoor Lighting | | | Outdoor Lighting | | |
| NRCC-LTO-E | | CALIFORNIA ENERGY COMMISSION | NRCC-LTO-E | | CALIFORNIA ENERGY COMMISSION | NRCC-LTO-E | | CALIFORNIA ENERGY COMMISSIO |
| Project Name: Rispin N | Mansion Park Report Page: | NRCC-LTO-E (Page 4 of 6) | CERTIFICATE OF COMPLIANCE Project Name: R | spin Mansion Park Report Page: | NRCC-LTO-E (Page 5 of 6) | CERTIFICATE OF COMPLIANCE Project Name: | Rispin Mansion Park Report Page: | NRCC-LTC (Page 6 of |
| Project Address: | Warf Road Date Prepared: | 6/28/2022 | Project Address: | Warf Road Date Prepared: | 6/28/2022 | Project Address: | Warf Road Date Prepared: | 6/28/20 |
| | | | | | • | | • | |
| H. OUTDOOR LIGHTING CONTROLS | | | | | | | · · · | |
| Colocol Editing Collings | | | J. LIGHTING ALLOWANCE: PER APPLICATION | | | DOCUMENTATION AUTHOR'S DECLARATION STATEMENT | | |
| This table demonstrates compliance with controls requirements for all new or alt | | | J. LIGHTING ALLOWANCE: PER APPLICATION This section does not apply to this project. | | | DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is acc | | 5 l |
| This table demonstrates compliance with controls requirements for all new or alteristing to remain (ie untouched) and luminaires which are removed and reinstall | | | This section does not apply to this project. | | | I certify that this Certificate of Compliance documentation is acc Documentation Author Name: | curate and complete. | Blog |
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APN 035-371-01 \$ -02

BOWMAN & WILLIAMS

CONSULTING CIVIL ENGINEERS

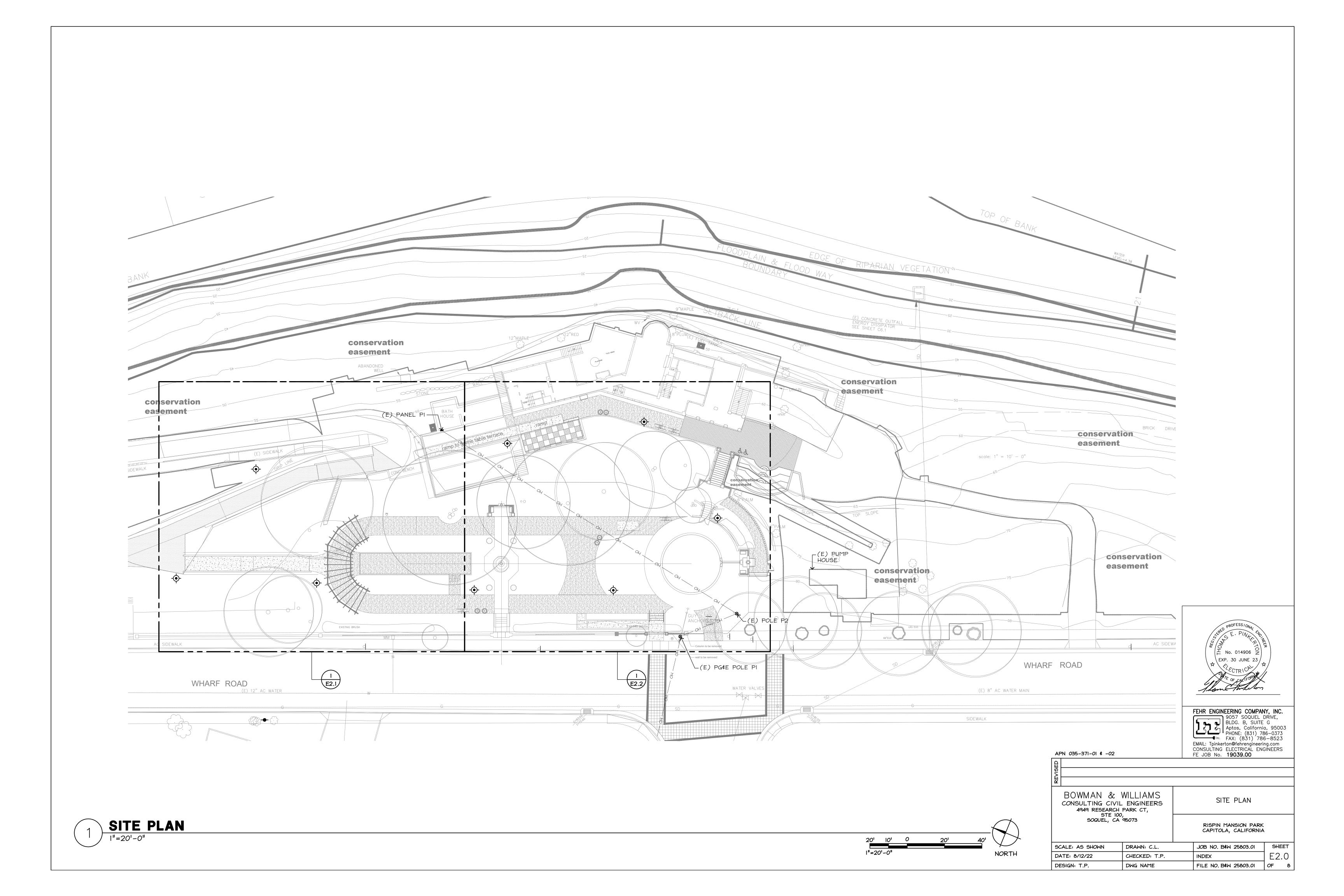
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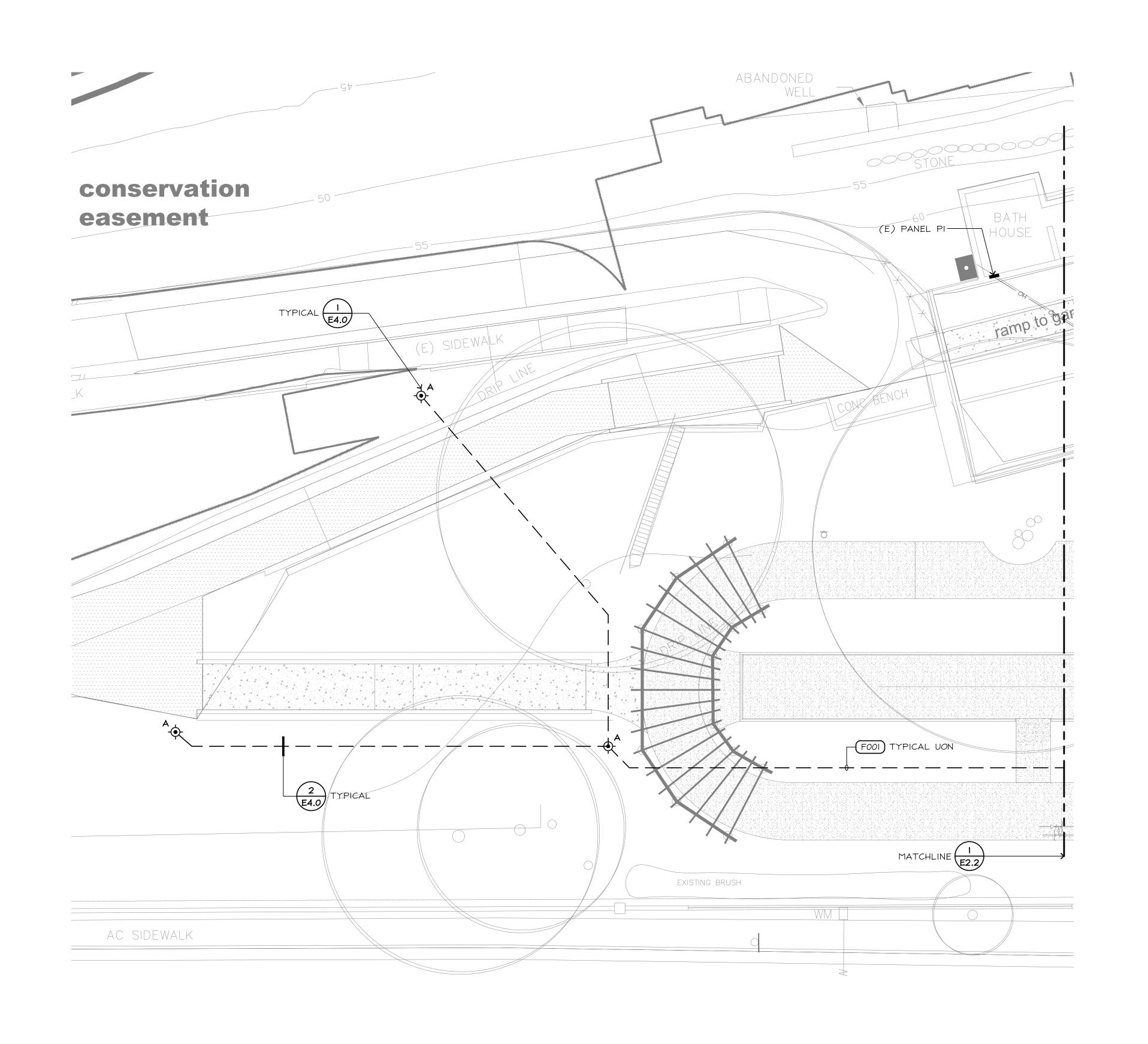
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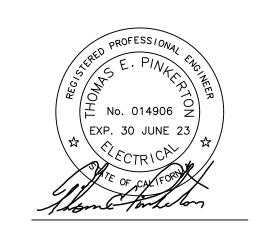
SOQUEL, CA 95073

RISPIN MANSION PARK
CAPITOLA, CALIFORNIA

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FEHR ENGINEERING COMPANY, INC.

9057 SOQUEL DRIVE,
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Aptos, California, 95003
PHONE: (831) 786-0373
FAX: (831) 786-8523
EMAIL: Tpinkerton@fehrengineering.com
CONSULTING ELECTRICAL ENGINEERS
FE JOB No. 19039.00

APN 035-371-01 \$ -02

BOWMAN & WILLIAMS

CONSULTING CIVIL ENGINEERS

4949 RESEARCH PARK CT,

STE 100,

SOQUEL, CA 95073

PARTIAL SITE PLAN

RISPIN MANSION PARK CAPITOLA, CALIFORNIA

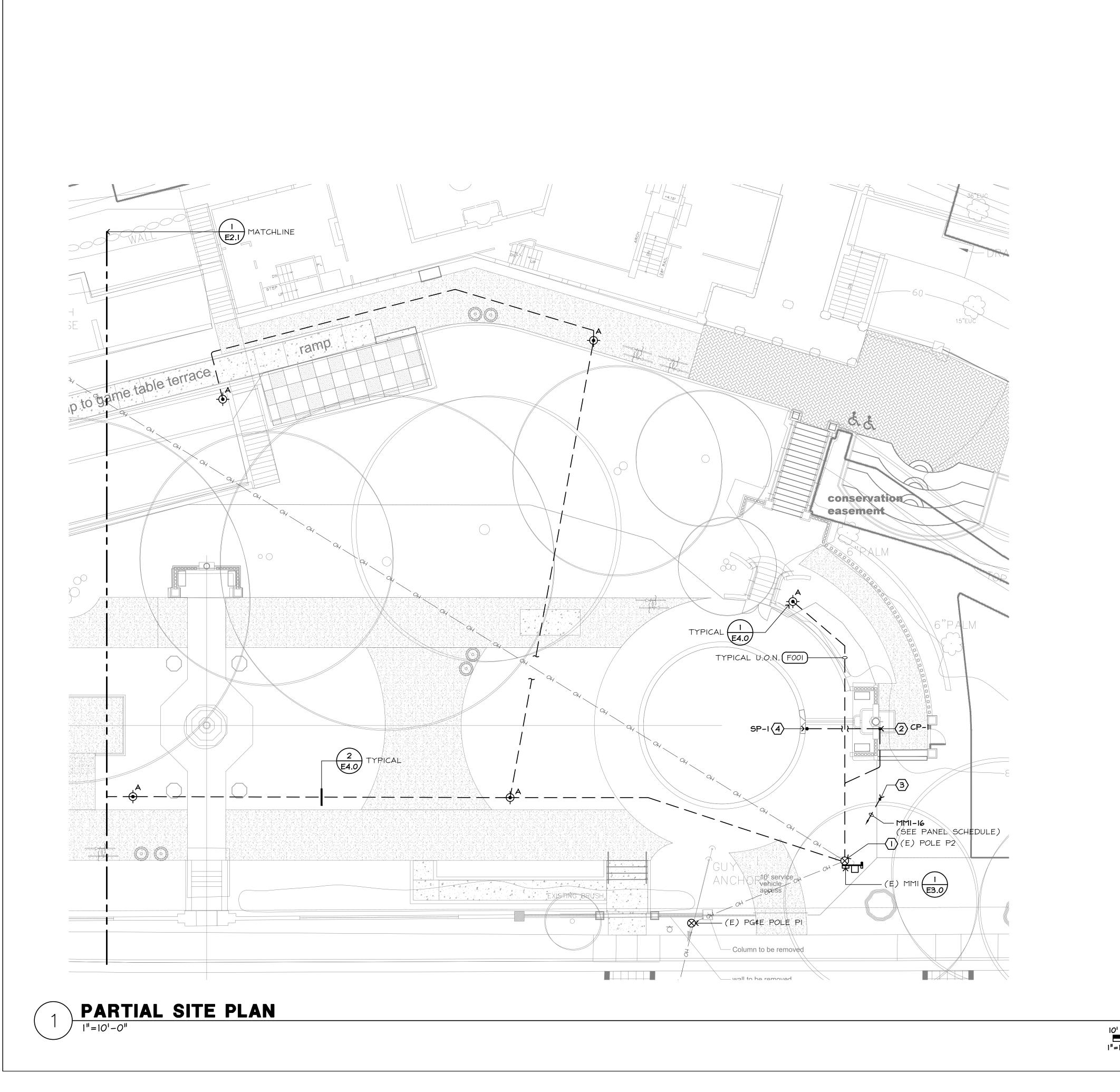
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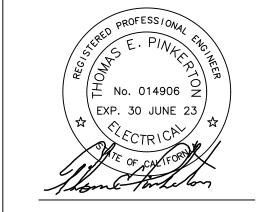






○ SHEET NOTES

- (E) 25' CITY SERVICE POLE; STRAIGHTEN POLE TO VERTICAL ORIENTATION; SEE DETAIL I/E3.0.
- CUSTOM PUMP PANEL SPECIFIED UNDER LANDSCAPE PLAN; COORDINATE.
- 3. IRRIGATION CONTROLLER 2; SEE PANEL SCHEDULE; SHEET **E3.0.**
- 4. POWER & CONTROL FROM **CP-I**; PROVIDE & INSTALL POWER CIRCUIT & CONNECTION.



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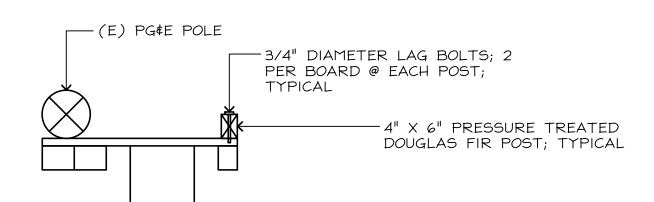
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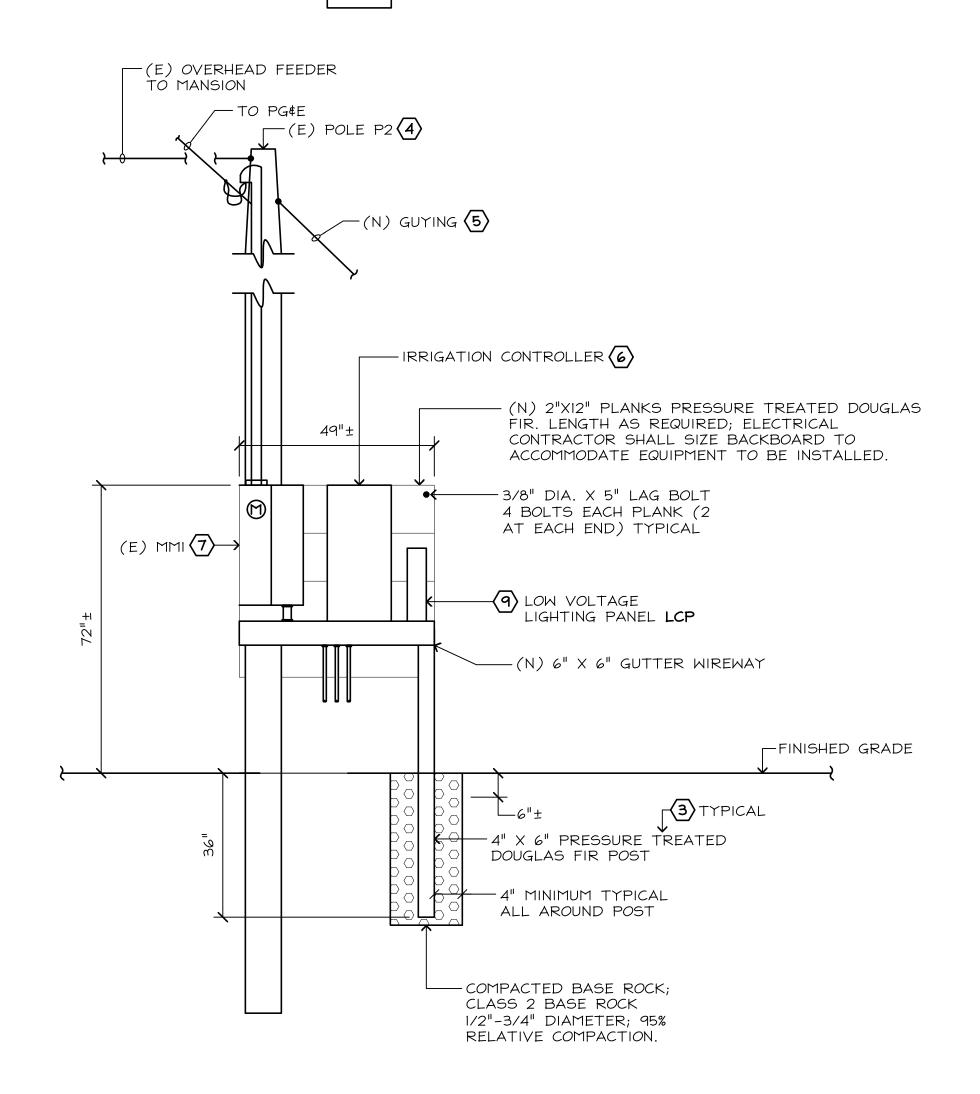
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GENERAL SINGLE LINE NOTES

- A. ALL ELECTRICAL SHOWN IS NEW, U.O.N.
- B. ALL CIRCUIT BREAKERS ARE 3-POLE, U.O.N.
- C. VOLTAGE DESIGNATIONS: (U.O.N.) 240-1 = 240/120V - 1PH - 3WIRE480-1 = 480V-1PH-2WIRE208Y = 208/120V - 3PH - 4 WIRE480Y = 480/277V - 3PH - 4WIRE $480 \Delta = 480 V - 3 PH - 3 WIRE$
- D. "KA" AT CIRCUIT BREAKERS DENOTES MINIMUM REQUIRED INTERRUPTING CAPACITY IN AMPS (x 1000).
- E. SPO AT BREAKER DENOTES: PROVIDE MOUNTING SPACE \$ HARDWARE FOR FUTURE 3-POLE BREAKER OF RATINGS INDICATED.
- F. Isc= AVAILABLE SHORT CIRCUIT (RMS SYM. AMPS) BASED ON 500MVA SHORT-CIRCUIT DUTY AT SERVICE XFMR PRIMARY AND 7.5% BELOW NOMINAL XFMR IMPEDANCES; VALUES ON LOAD-SIDE OF MAIN SWITCHBOARD INCLUDE MOTOR CONTRIBUTION.

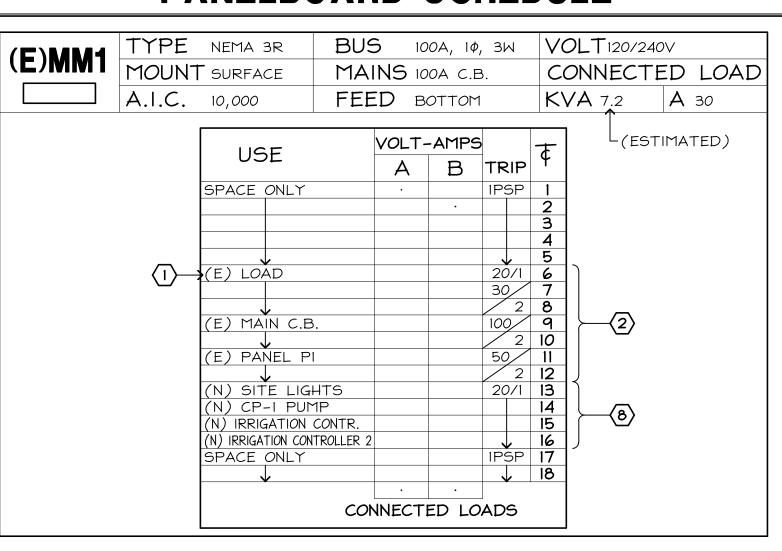
| | TEEDER SCHEDULE | | |
|---------|-------------------------|--------|--|
| FDR No. | CONDUIT AND CONDUCTORS | REMARK | |
| F001 | 3/4"C., 2#12, 1#12 GND. | | |
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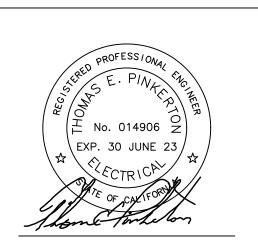


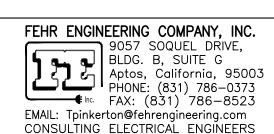
PANELBOARD SCHEDULE



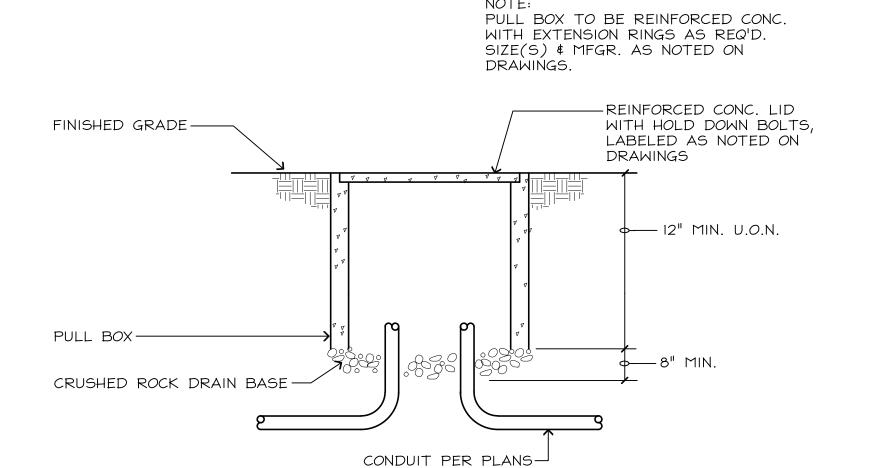
○ SHEET NOTES

- 1. ABANDON (E) LOADS.
- 2. (E) CIRCUIT BREAKERS TO REMAIN.
- 3. PRESSURE TREATED WOOD SHALL USE A CALIFORNIA ACCEPTED ENVIRONMENTALLY SAFE WOOD PRESERVATIVE (COPPER NAPHTHENATE OR EQUAL); PROVIDE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASE.
- 4. STRAIGHTEN (E) POLE TO VERTICAL ORIENTATION.
- 5. PROVIDE & INSTALL GUYING TO OFFSET OVERHEAD FEEDER LOAD; 5/16" DIAMETER GALVANIZED STEEL GUYING CABLE; ANCHOR USING 8" DIAMETER EXPANSION ANCHOR INTO EARTH 72"±.
- 6. PROVIDED \$ INSTALLED UNDER LANDSCAPE PLAN; PROVIDE POWER CONNECTION; COORDINATE WITH LANDSCAPE PLANS.
- 7. RE-USE (E) MMI IN (N) WORK; MOUNT TO (N) BACKBOARD AS INDICATED.
- 8. PROVIDE \$ INSTALL (N) CIRCUIT BREAKER INDICATED.
- 9. LCP PROVIDED & INSTALLED UNDER LANDSCAPE PLANS; PROVIDE & INSTALL POWER CIRCUIT; COORDINATE WITH LANDSCAPE PLANS.





| | APN 035-371-01 \$ -02 | | FE JOB No. 19039.00 | | |
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| | REVISED | | | | |
| | | | | | |
| | BOWMAN & WILLIAMS CONSULTING CIVIL ENGINEERS 4949 RESEARCH PARK CT, STE 100, SOQUEL, CA 95073 | | SINGLE LINE DIAGRAM | | |
| | | | RISPIN MANSION PARK CAPITOLA, CALIFORNIA | | |
| | SCALE: AS SHOWN | DRAWN: C.L. | | JOB NO. B\$W 25803.01 | SHEET |
| | DATE: 8/12/22 | CHECKED: T.P. | | INDEX |] E3.0 |
| | DESIGN: T.P. | DWG NAME | | FILE NO. B\$W 25803.01 | OF 8 |



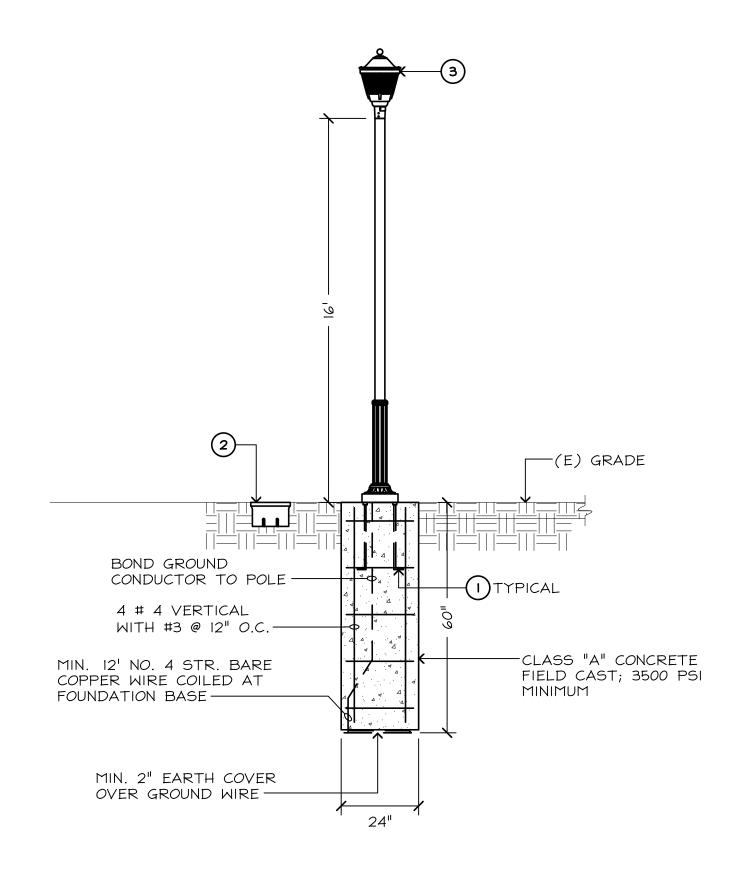
(3)

CONCRETE PULL BOX

NO SCALE

DETAIL NOTES:

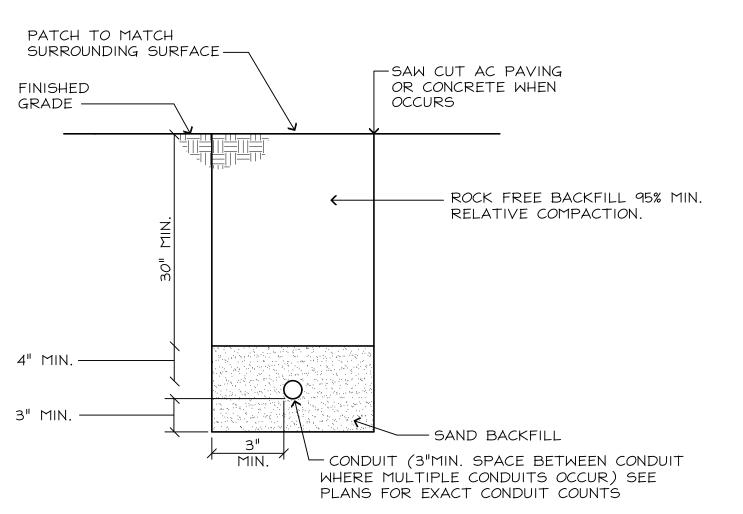
- 1. 1/2" X 18" X 3" HOT DIPPED GALVANIZED L-TYPE ANCHOR BOLTS (4 PER POST).
- CONCRETE PULLBOX II" X 17" I.D.; LABEL LID LIGHTING; 3/4"C., 2#12, 1#12 GND. UNDERGROUND INTO BASE OF POLE TO FIXTURE CONNECTION; WATERPROOF SPLICE IN PULLBOX; SEE DETAIL 3/E4.0.
- 3. FIXTURE TYPE "A"; SEE LIGHT FIXTURE SCHEDULE FOR FIXTURE AND POLE TYPE.





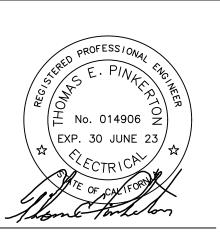
FIXTURE MOUNTING

NO SCALE





NO SCALE



FEHR ENGINEERING COMPANY, INC.

9057 SOQUEL DRIVE,
BLDG. B, SUITE G
Aptos, California, 95003
PHONE: (831) 786-0373
FAX: (831) 786-8523
EMAIL: Tpinkerton@fehrengineering.com
CONSULTING ELECTRICAL ENGINEERS
FE JOB No. 19039.00

| REVISED | | |
|------------------------------|---|--------------------|
| 22 | | |
| | BOWMAN & WILLIAMS CONSULTING CIVIL ENGINEERS 4949 RESEARCH PARK CT, | ELECTRICAL DETAILS |
| STE 100, SOQUEL, CA 95073 | RISPIN MANSION PARK CAPITOLA, CALIFORNIA | |

APN 035-371-01 \$ -02

 SCALE: AS SHOWN
 DRAWN: C.L.
 JOB NO. B\$W 25803.01
 SHEET

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