

DOCUMENT 00 9113

**ADDENDUM NO. 1
06/04/26**

SPECIFICATION NO. 26-11757-C

CITY OF BERKELEY

**SANTA FE TRACKBED TO PARK CONVERSION
New Community Gardens, Dog Park, and Playground**

**0 Parker St., 0 Carleton St., 0 Derby St., 0 Ward St.
BERKELEY, CA 94702**

The following clarifications are hereby made to the subject documents:

Additional References

1. The following references are available for download [here](#).
 - a. Geotech Report
 - b. #26-11756-C Conform Plans for the Santa Fe Trackbed to Park Conversion Remediation, Demolition and Perimeter Fencing project

Project Plans

1. Replace the following sheets with the updated sheets:
 - a. G0.00 Cover Sheet
 - b. G2.02 Demolition Plan – Parker to Carleton
 - c. G2.03 Demolition Plan – Carleton to Derby
 - d. G2.04 Demolition Plan – Derby to Ward
 - e. L1.01 Materials Plan – Blake to Parker
 - f. L1.02 Materials Plan – Parker to Carleton
 - g. L1.03 Materials Plan – Carleton to Derby
 - h. L1.04 Materials Plan – Derby to Ward
 - i. L2.04 Layout Plan – Derby to Ward
 - j. L4.01 Details – Paving and Wall
 - k. L4.04 Details – Chain Link Fence and Gate
 - l. L4.08 Details – Garden Planters
 - m. L4.10 Details – Planting
 - n. C4.0 Details
 - o. C4.1 Details
 - p. E1.2 Electrical Details
 - q. E2.2 Electrical Plan Parker to Carleton St Base Bid
 - r. E2.3 Electrical Plan Carleton to Derby St Base Bid
 - s. E2.4 Electrical Plan Derby St to Ward St Base Bid
 - t. E2.5 Electrical Plan Parker to Carleton St Bid Add Alt
 - u. E2.6 Electrical Plan Carleton to Derby St Bid Add Alt
 - v. E2.7 Electrical Plan Derby St to Ward St Bid Add Alt

Project Manual

1. Replace the following language:
 - a. Document 00 1113 Notice Inviting Bids, 1.01, replace:

“Notice Inviting Bids: City of Berkeley (“City”) will receive sealed Bids at City of Berkeley, Purchasing Manager’s Office, located at the Martin Luther King Jr. Civic Center, 2180 Milvia Street, Third Floor, Berkeley, CA 94704, Telephone (510) 981-7320, until **2pm, Thursday, June 11, 2026** for the following public work:

SPECIFICATION NO. 26-11757-C

CITY OF BERKELEY

Santa Fe Trackbed to Park Conversion

**New Community Gardens, Dog Park, and Playground
0 Parker St., 0 Carleton St., 0 Derby St., 0 Ward St.**

(Former Santa Fe Railroad Right-of-Way, four vacant parcels between Blake Street and Ward Street in Berkeley, CA 94702. Area bounded by Blake Street to the north, Sacramento Street to the east, Derby Street to the south, and Mabel Street to the west. See plans for area of work.)

With

“Notice Inviting Bids: City of Berkeley (“City”) will receive sealed Bids at City of Berkeley, Purchasing Manager’s Office, located at the Martin Luther King Jr. Civic Center, 2180 Milvia Street, Third Floor, Berkeley, CA 94704, Telephone (510) 981-7320, until **2pm, Tuesday June 16, 2026** for the following public work:

SPECIFICATION NO. 26-11757-C

CITY OF BERKELEY

Santa Fe Trackbed to Park Conversion

**New Community Gardens, Dog Park, and Playground
0 Parker St., 0 Carleton St., 0 Derby St., 0 Ward St.**

(Former Santa Fe Railroad Right-of-Way, four vacant parcels between Blake Street and Ward Street in Berkeley, CA 94702. Area bounded by Blake Street to the north, Sacramento Street to the east, Derby Street to the south, and Mabel Street to the west. See plans for area of work.)

2. Replace the following documents:
 - a. Document 00 4113 Bid Form
 - i. Added the following bid items:
 1. “1.13a Parcel 1 – Landscape Maintenance Period”
 2. “2.14a Parcel 2 – Soil Prep and Fine Grading”
 3. “2.16a Parcel 2 – Landscape Maintenance Period”
 4. “3.08a Parcel 3 – Concrete Band”
 5. “3.19a Parcel 3 – Soil Prep and Fine Grading”
 6. “3.22a Parcel 3 – Landscape Maintenance Period”
 7. “3.27a Parcel 3 – Service meter pedestal”
 8. “3.30a Parcel 3 – 3” conduit for PG&E connection”
 9. “4.07a Parcel 4 – Wood mulch paving”
 10. “4.08a Parcel 4 – 5’ Chain Link Fence and Gates”
 11. “4.16a Parcel 4 – Shed”
 12. “4.22a Parcel 4 – Soil Prep and Fine Grading”
 13. “4.27a Parcel 4 – Landscape Maintenance Period”
 14. “4.32a Parcel 4 – Hose Bibbs”
 - ii. Revised quantities for the following bid items:

1. 2.04 Parcel 2 – Concrete Paving, Type A
 2. 2.05 Parcel 2 – Wood Mulch Paving
 3. 3.28 Parcel 3 – Pull Box
 4. 4.11 Parcel 4 – Waste Receptacle
- iii. Revised bid item names for:
1. Bid Item 2.05 Parcel 2 – Wood Mulch Paving
- b. Document 01 1100 Summary of Work
- i. Added descriptions for added bid items listed in 1.b.i.
 - ii. Revised descriptions for Bid Items 1.13 Parcel 1 – Planting soil mix for raised planters, 2.12 Parcel 2 – Stacked Logs, 2.23 Parcel 2 – Onsite Conduit and Feeders, and 2.24 Parcel 2 Conduit and Feeders across Carleton Street, 4.15 Parcel 4 – Freestanding log, and 4.24 Parcel 4 – Planting soil mix.
 - iii. Revised section 2.03A.
- c. Document 32 3113 Chain Link Fence and Gates
- i. Revised panic bar
- d. Document 32 8400 Irrigation
- i. Revised PVC non-pressure lateral line piping and sleeving
- e. Document 32 9000 Planting
- i. Clarifications to mulch and planter soil
- f. Appendix C: Tentative Schedule
- i. Revised tentative schedule

Questions and Responses:

1. Can I use one envelope to submit my bid?

Response No, two envelopes shall be submitted: “Envelope A – Bid Submittals” and “Envelope B – Statement of Qualifications. Please refer to Document 00 2113 (Instruction to Bidders).

2. Does this project have a Project Labor Agreement (PLA) requirement?

Response: Document 00 1113 (Notice Inviting Bids) and Document 00 6580 (City of Berkeley Contracting Policies) states that this project is subject to the City’s project labor agreement, which is called the Community Workforce Agreement (CWA). See Appendix A in the Project Manual for information on the City of Berkeley’s Community Workforce Agreement.

3. Who needs to comply with the City’s Community Workforce Agreement, CWA?

Response The general contractor and all subcontractors at every tier.

4. The Contract Documents reference Local Hiring requirements. Please advise whether General Contractors are required to perform any pre-bid outreach, advertising, or Good Faith Effort documentation related to the Local Hiring program prior to bid submission.

Response No.

5. Specification Section ___ references a warranty period of twenty-four (24) months after completion and Final Acceptance.

However, Document 00 6536 – Guaranty states that the Contractor shall provide a warranty period of one (1) year following Final Acceptance, unless a longer period is specified in the Contract Documents.

Please advise the required warranty period for General Contractors on this project.

Response Per Document 00 6536, the warranty period shall be 1 year following Final Acceptance, unless a longer period is specified in the Contract Documents. Items with longer warranty periods specified in the contract documents shall be warranted for the time specified.

6. Can you provide a copy of the geotechnical reports listed in Document 01 1100?

Response Geotechnical reports are available for download [here](#).

7. Will the site be cleaned up of contaminated soil left behind by the site's historic railroad use?

Response Yes. The site is currently under construction for the #26-11756-C Santa Fe Trackbed to Park Conversion Remediation, Demolition and Perimeter Fencing project. Construction for this project cannot break ground until the #26-11756-C project is complete per Document 01 1100 Summary of Work, 1.08B.

8. When is the 1st phase of this project (remediation, demolition and perimeter fencing) slated to be done?

Response Currently the 1st phase (remediation, demolition and perimeter fencing) is anticipated to be complete on October 5, 2026. A revised tentative schedule is included in this Bid Addendum.

9. According to the bid documents, the project is divided into four (4) adjacent locations, identified as Parcel 1, Parcel 2, Parcel 3, and Parcel 4, with a total contract duration of 240 calendar days. Please confirm whether Parcels 1, 2, 3, and 4 will be constructed concurrently or phased. Additionally, please provide the approximate construction start date if available?

Response Contractor is responsible for determining means and methods of construction and whether it would be constructed concurrently or phased. See response to question 8 for tentative schedule.

10. What condition will the site be in when the contractor for this contract arrives?

Response Site will consist of compacted, clean import fill at a grade elevation that is approximately 4-inches less than existing grades shown in the Topographic Survey per note 2 on sheets G1.01 through G1.04. New perimeter fencing will enclose the site per #26-11756-C plans. City wants to break ground on this project immediately after the completion of the #26-11756-C Santa Fe Trackbed to Park Conversion Remediation, Demolition and Perimeter Fencing project. Depending on timing, the site will either be dirt or installed with erosion control measures, like hydroseeding or mulch.

11. What will the new perimeter fence installed from the 1st phase be? What's the width of the gate? How can the contractor access the site?

Response Remediation, Demolition and Perimeter Fencing plans are available to download [here](#) for reference. Contractor is responsible for means and methods in accessing the site.

12. Will the site be leveled in the 1st phase?

Response Clean soil will be imported and compacted per the Materials Plan in the Remediation, Demolition and Perimeter Fencing plans, available for download [here](#). Finish grades will be ~4-inches lower than existing grades as noted on sheets G1.01 through G1.04.

13. Who is responsible for site security?

Response Contractor is responsible for site security per Document 00 7200 General Conditions, 15.02A.

14. Are construction trailers required? If so, what's the approval process?

Response Construction trailers are optional and shall be shown on the Staging Plan for review and approval of their proposed locations.

15. Sheet L4.13 notes that sign panels may be single- or double-sided. However, the sign locations identified on Sheets L1.02, L1.03, and L1.04 do not clarify which signs are intended to be single-versus double-sided. Can you please confirm the expected configuration for these signs?

Response Powder coated, single-sided.

16. Please confirm the use of No. 57 Gravel Base under all concrete as shown on detail 1/L4.01.

Response Base revised to Class 2 AB. See revised detail.

17. Are there salvaged logs for this project?

Response Salvaged logs are no longer available for this project. Contractor shall furnish and install logs per the plans and specifications. See revised Document 01 1100 Summary of Work.

18. I see the request for F2 and F3 pathway lights, but I don't see the itemized request for F1 and F4 pathway lights. Am I missing something? Please advise.

Response Bid items for pathway lights are broken up by parcel. Each parcel may have a combination of F1, F2, F3, and F4 lights. Refer to the electrical plan sheets.

19. Should the pathway lights run on DC power (solar only/off grid) or run from AC to DC power (Hybrid System)?

Response Hybrid.

20. Can you share contact info for the specified pathway light manufacturer?

Response GBL Infrastructure Solution Inc.; John Parlog; john.parlog@GBLsolutionsinc.com; PH: 925-390-8430; FAX: 925-240-9686.

21. Are any streets on moratorium and will that impact utility paving requirements?

Response Yes. Derby Street between Mabel Street and Sacramento Street is on moratorium between 12/27/24 and 12/27/29. Utility trenching required in Derby Street must comply with street moratorium paving requirements per the City's utility trench detail.

22. Can you share the PG&E plans for the conduit required from the PG&E power pole to the meter service pedestal?

Response PG&E plans aren't available yet. Approximately 15 LF of 3" conduit will be needed from the PG&E pole to the meter service pedestal. Refer to Bid Item 3.30a on Document 00 4113 Bid Form and Document 01 1100 Summary of Work.

23. Can you please clarify the method of payment for:

Concrete Band 3/L4.11 shown on plan sheet L1.03

Wood mulch on plan sheet L1.04

Chain Link Fence on plan sheet L1.04

Community Garden bed on plan sheet L1.04

Hose Bibs on plan sheet L1.04

Shed on plan sheet L1.04

Response See below answers for each line item as well as the revised 00 4113 Bid Form and 01 1100 Summary of Work issued in this addendum.

Concrete Band 3/L4.11 shown on plan sheet L1.03:

– refer to Bid Item 3.08a

Wood mulch on plan sheet L1.04:

– refer to Bid Item 4.07a

Chain Link Fence on plan sheet L1.04

– refer to Bid Item 4.08a

Community Garden bed on plan sheet L1.04

– refer to bid items 4.20 and 4.21 for raised and in ground planters.

Hose Bibs on plan sheet L1.04

– refer to Bid Item 4.32a

Shed on plan sheet L1.04

– refer to Bid Item 4.16a

24. Please provide a bid item for Wood Mulch at Parcel 4 - Derby to Ward in the bid form.

Response See bid item 4.07a Parcel 4 – wood mulch paving

25. The bid form categorizes items under multiple sections (e.g., Site Preparation, Utility, Fencing, Surfacing, and Landscaping). The Surfacing category includes an item for "Wood Mulch"; however, no corresponding item is provided under Landscaping for mulch covering planting areas and mulch at planter box. Please confirm whether these mulch are to be included under the "Wood Mulch" item in the Surfacing category.

Response Planting mulch shall be included in bid item for soil prep and finish grading.

26. Please clarify the minimum distance from the tree trunk (in feet) at which root barriers are required, and the total length of root barrier required on each side of the tree. Additionally, please provide the corresponding bid item(s) in the bid form.

Response Root barriers shall be installed at the edge of all paved surfaces which are less than 5' from a tree.

27. Please confirm whether two layers of cardboard sheet mulch are required in mulch-only areas. Additionally, please confirm where it gets paid for in the bid form.

Response Mulch paving detail added and referenced for areas to receive 3" wood mulch without cardboard or irrigation.

28. Specification Section 32 90 00 (3.09) requires "top cardboard with 1-inch layer of compost, then top compost with a 2-inch layer of mulch," while Section 32 90 00 (3.06) requires application of a 3-inch mulch depth in all planting areas except lawn. Please confirm the required mulch depth.

Response Mulch areas shall be 3" deep in all locations. Specification has been revised to address this.

29. Specification Section 32 90 00 (3.02 and 3.03) requires soil preparation and finish grading prior to planting installation; however, the bid form only includes items for shrubs/groundcover, trees, sod, and mulch, with no items provided for these activities. Please provide bid items for soil preparation and finish grading, including weed control.

Response Bid items have been added, see bid items 2.14a, 3.19a, and 4.22a.

30. Please provide bid items for 90-day landscape maintenance for the four (4) locations (Parcels 1, 2, 3, and 4), as required per specs section 329300-13/3.13.

Response See Bid Items 1.13a, 2.16a, 3.22a, and 4.27a.

31. Detail 3/L04.06 indicates a Green roof Planter with seed mix and lightweight planting soil; however, this is not shown on the drawings. Please confirm if this scope is not required for this project. If required, please provide locations, green roof and drain board material, installation depth of lightweight soil. Also, please provide corresponding bid item(s) in the bid form.

Response This scope is required per detail 3/L4.06 in the plans. Location of shed is shown on the Material Plans with the associated green roof detailed in 3/L4.06. Shed at Parcel 1 is part of Additive Alternate 1 and Shed at Parcel 4 is Bid Item 4.16a.

32. Please provide the required material and installation depth for organic matter to be installed at the Hugelkultur bed per Detail 5/L4.10.

Response Organic matter shall be leaves, grass clippings, unfinished compost per detail 5/L4.10. Install depth shall be 6”.

33. Detail 3/L4.01 indicates a 3" x 3" Permaloc Aluminum Edging (AsphaltEdge) at stabilized decomposed granite; however, Specification Section 32 90 00 (Part 2.12) requires a 1/8" x 1-5/8" aluminum edge restraint. Please confirm which type is required. Additionally, please advise whether this edging is included as part of the stabilized decomposed granite paving item. If not, please provide a separate bid item.

Response Use edging specified in the detail. Edging product removed from specification.

34. Sheet L4.08 indicates four (4) planter types (WP1 In-Ground Wood Planter, WP2 Raised Wood Planter, Curved Accessible Raised Planter, and Accessible Raised Planter) with planter soil mix required; however, only Detail 2/L4.08 specifies a 2'-0" depth for the raised wood planter. Please clarify the required planting soil mix depth for the remaining planter types, and provide the specified material requirements, as these are not identified in the specifications.

Response Planter soil depth has been added to details. Planter soil is specified in 32 9000, 2.10A.

35. Please clarify the specific material and required depth of the planting soil mix as shown on Planting Plan Sheet L3.04 (Derby to Ward) and referenced in Bid Item 4.24 – Parcel 4 – Planting Soil Mix.

Response Planter soil depths clarified, see revised sheets.

36. Please provide bid items for planter soil mix to be installed at raised planters and in-ground planters as shown on Sheet L1.04 (Derby to Ward – Parcel 4).

Response Bid item 4.24 Planting Soil Mix is for all planter soil mix as shown on Sheet L1.04 (Derby to Ward – Parcel 4).

37. The irrigation legend sheet L5.00 requires Schedule 40 lateral lines; however, Specification Section 2 84 00 (2.03B) requires Class 200 pipes. Please clarify.

Response Use Schedule 40 PVC for mainline and lateral lines.

38. The irrigation plans depict one sleeve accommodating two (2) irrigation pipes. Please confirm whether the Contractor is permitted to install multiple pipes within a single sleeve.

Response Multiple pipes may be installed within a single sleeve. Sleeves are to be sized two pipe sizes larger than combined diameter of sleeved pipes, i.e. (3) 1" pipes = 6" Sleeve.

39. On Planting Plan Sheet L3.04 (Derby to Ward), an area indicated with the "planting soil mix" symbol (the areas surrounding the curved planter box, where Hugelkultur beds are located) are shown without associated shrubs or trees. Please confirm whether only planting soil mix is required in this area.

Response Yes, areas on planting plans shown as planter soil without specified plants only require planter soil and no plants or mulch, except for the Hugelkultur beds, which require mulch per detail 5/ L4.10.

40. [Chain Link] The plan details clearly call out a "standard" (11 gauge x 2") mesh while the specifications makes references to (slatted) mesh. Given the application, I would assume that these references in the specifications can be ignored but can you please confirm?

Response Chain link fence shall not be slatted.

41. [Chain Link] The plan details seem to call for an 8ft o.c. post spacing and a 10ft o.c. (max) post spacing. Which call-out should we apply to this installation?

Response For chain link fence per detail 1/L4.02, contractor shall minimize short spans. Install posts at 8'-0" o.c. where feasible. If span lengths must vary, 10'-0" o.c. is the max. Contractor shall submit shop drawing per note 5 on detail 1/L4.02 for review and approval prior to install.

42. [Chain Link] The bid form (Bid Item #2.07) calls for a total of 42 LF of chain link fence work (and that number appears to include any gates as well) but the plans appear to include approx. 217 LF of fence (not including gates). Installing 217 LF of fence is going to be notably more cost effective than mobilizing for just 42 LF of fence so can you confirm which figure is applicable to this project?

Response Bid Item #2.07 is for the 5' chain link fence and gates at Parcel 2. Perimeter fencing will be installed prior to this project per contract #26-11756-C Santa Fe Trackbed to Park Conversion Remediation, Demolition and Perimeter Fencing.

43. [Chain Link] The plan detail calls for 2" rails. This is not a typical installation and will result in higher cost components at no obvious benefit to the design. Would a standard 1-5/8" rail be an acceptable substitute for this component?

Response No. 2" rails are desired for public park applications.

The Bid Opening time and date is changed to Tuesday, June 16, 2026 at 2:00 P.M. The location of opening will be at the courtyard of 2180 Milvia Street. All other requirements of the contract remain the same. Bidder shall acknowledge receipt of this Addendum on the Bid Form.

The location of opening at the courtyard may change as needed to accommodate the number of attendees. Staff will be present to direct the bidders to the bid opening. Bidders shall allow sufficient time to deliver their bids by the deadline and check the city's website <https://berkeleyca.gov/doing-business/working-city/bid-proposal-opportunities/santa-fe-trackbed-park-conversion-new> for the most up to date information for where to deliver their bids.

THE ADDENDA MUST BE ACKNOWLEDGED BY SIGNATURE WITH SUBMISSION OF DOCUMENT 00 4113 "BID FORM". FAILURE TO DO SO MAY RESULT IN REJECTION OF THE BID.

Sincerely,



Stacey Rutherford
Associate Civil Engineer
Department of Parks, Recreation and Waterfront

END OF DOCUMENT

CITY OF BERKELEY

ALAMEDA COUNTY, CALIFORNIA

SANTA FE TRACKBED TO PARK CONVERSION PROJECT NEW COMMUNITY GARDENS, DOG PARK, AND PLAYGROUND

SPEC NO. 26-11757-C

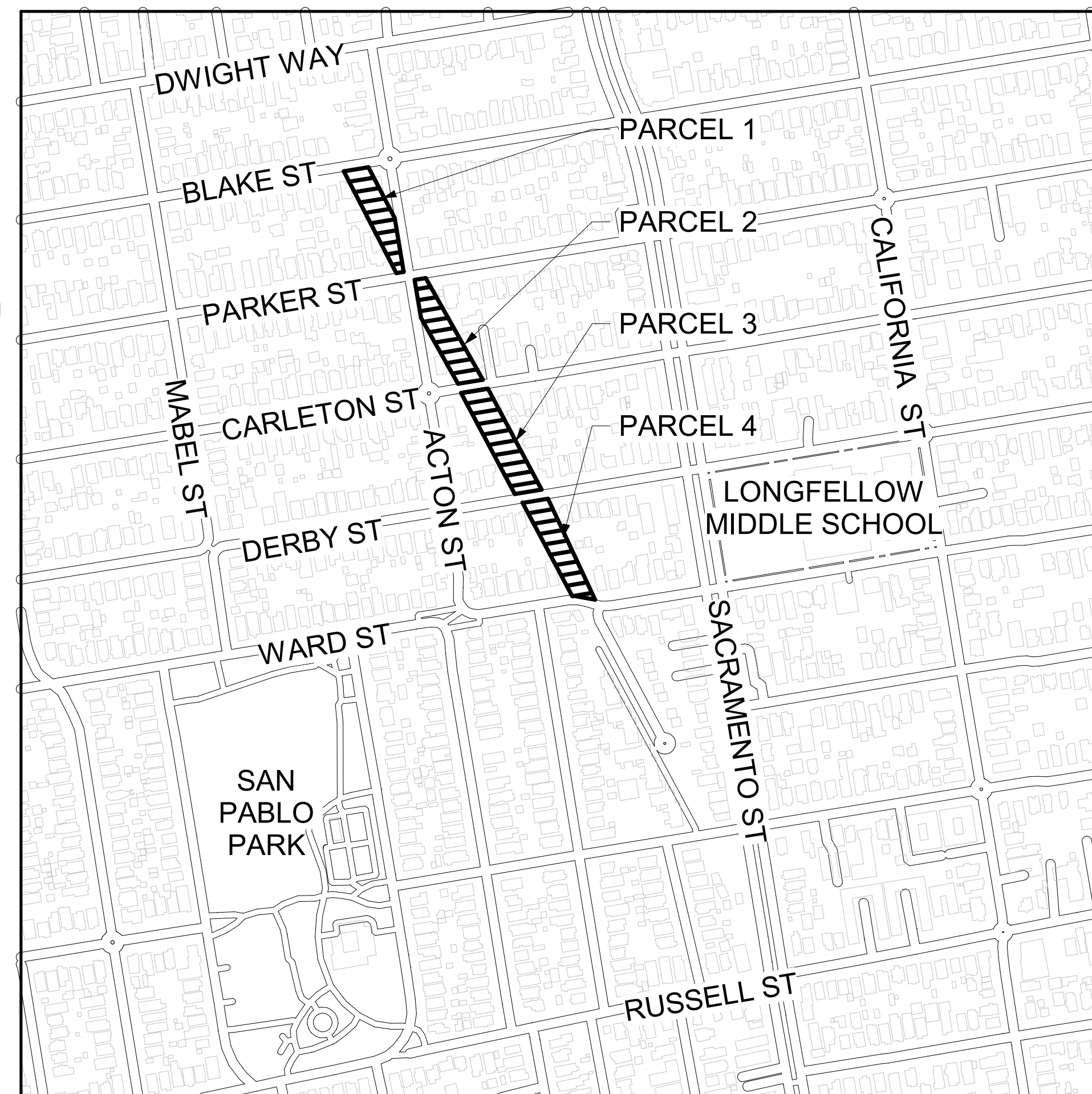
PLAN NO. 8288

FILE NO. 406-222

INDEX TO DRAWINGS

NO.	SHEET	NO.	SHEET
GENERAL			
G0.00	COVER SHEET	L5.00	IRRIGATION LEGEND AND DETAILS
G1.01	SURVEY - BLAKE TO PARKER	L5.01	IRRIGATION DETAILS
G1.02	SURVEY - PARKER TO CARLETON	L5.02	IRRIGATION PLAN - BLAKE TO PARKER
G1.03	SURVEY - CARLETON TO DERBY	L5.03	IRRIGATION PLAN - PARKER TO CARLETON
G1.04	SURVEY - DERBY TO WARD	L5.04	IRRIGATION PLAN - CARLETON TO DERBY
G2.01	DEMOLITION PLAN - BLAKE TO PARKER	L5.05	IRRIGATION PLAN - DERBY TO WARD
G2.02	DEMOLITION PLAN - PARKER TO CARLETON	CIVIL	
G2.03	DEMOLITION PLAN - CARLETON TO DERBY	C0.0	NOTES, ABBREVIATIONS & SHEET INDEX
G2.04	DEMOLITION PLAN - DERBY TO WARD	C1.0	GRADING AND DRAINAGE PLAN - BLAKE TO PARKER
G3.01	POLLUTION PREVENTION PLAN	C1.1	GRADING AND DRAINAGE PLAN - PARKER TO CARLETON
LANDSCAPE			
L0.01	TREE PROTECTION PLAN - BLAKE TO PARKER	C1.2	GRADING AND DRAINAGE PLAN - CARLETON TO DERBY
L0.02	TREE PROTECTION PLAN - PARKER	C1.3	GRADING AND DRAINAGE PLAN - DERBY TO WARD
L0.03	TREE PROTECTION PLAN - CARLETON TO DERBY	C2.0	UTILITY PLAN - BLAKE TO PARKER
L0.04	TREE PROTECTION PLAN - DERBY TO WARD	C2.1	UTILITY PLAN - PARKER TO CARLETON
L1.00	LANDSCAPE PLAN - WHOLE SITE	C2.2	UTILITY PLAN - CARLETON TO DERBY
L1.01	MATERIALS PLAN - BLAKE TO PARKER	C2.3	UTILITY PLAN - DERBY TO WARD
L1.02	MATERIALS PLAN - PARKER TO CARLETON	C3.0	SWMP - BLAKE TO PARKER
L1.03	MATERIALS PLAN - CARLETON TO DERBY	C3.1	SWMP - PARKER TO CARLETON
L1.04	MATERIALS PLAN - DERBY TO WARD	C3.2	SWMP - CARLETON TO DERBY
L2.01	LAYOUT PLAN - BLAKE TO PARKER	C3.3	SWMP - DERBY TO WARD
L2.02	LAYOUT PLAN - PARKER TO CARLETON	C4.0	DETAILS
L2.03	LAYOUT PLAN - CARLETON TO DERBY	C4.1	DETAILS
L2.04	LAYOUT PLAN - DERBY TO WARD	C5.0	ESCP - BLAKE TO CARLETON
L2.10	LAYOUT PLAN - ENLARGEMENT AT PLAY AREA	C5.1	ESCP - CARLETON TO WARD
L3.00	PLANTING NOTES & SCHEDULE	C5.2	EROSION CONTROL DETAILS
L3.01	PLANTING PLAN - BLAKE TO PARKER	ELECTRICAL	
L3.02	PLANTING PLAN - PARKER TO CARLETON	E1.1	FIXTURE SCHEDULE & SINGLE LINE DIAGRAM
L3.03	PLANTING PLAN - CARLETON TO DERBY	E1.2	ELECTRICAL DETAILS
L3.04	PLANTING PLAN - DERBY TO WARD	E2.1	ELECTRICAL PLAN BLAKE TO PARKER ST BASE BID
L4.01	DETAILS - PAVING AND WALL	E2.2	ELECTRICAL PLAN PARKER TO CARLETON ST BASE BID
L4.02	DETAILS - SCOOTER TRACK	E2.3	ELECTRICAL PLAN CARLETON TO DERBY ST BASE BID
L4.03	DETAILS - WOOD FENCE AND GATE	E2.4	ELECTRICAL PLAN DERBY TO WARD ST BASE BID
L4.04	DETAILS - WIRE MESH FENCE AND GATE	E2.5	ELECTRICAL PLAN PARKER TO CARLETON ST - ADD ALT
L4.05	DETAILS - SIGNAGE AND COMMUNITY GARDEN	E2.6	ELECTRICAL PLAN CARLETON TO DERBY ST - ADD ALT
L4.06	DETAILS - SHED AND OUTDOOR CLASSROOM	E2.7	ELECTRICAL PLAN DERBY TO WARD ST - ADD ALT
L4.07	DETAILS - GARDEN TRELIS	E3.1	PHOTOMETRIC PLAN BLAKE TO PARKER
L4.08	DETAILS - GARDEN PLANTERS	E3.2	PHOTOMETRIC PLAN PARKER TO CARLETON
L4.09	DETAILS - LOGS AND BOULDERS	E3.3	PHOTOMETRIC PLAN CARLETON TO DERBY
L4.10	DETAILS - PLANTING	E3.4	PHOTOMETRIC PLAN DERBY TO WARD
L4.11	DETAILS - PLAY AND FITNESS EQUIPMENT	BC1	BUILDING COMPLIANCE FORMS
L4.12	DETAILS - SITE FURNISHINGS	BC2	BUILDING COMPLIANCE FORMS (POWER DISTRIB.)
L4.13	DETAILS - PARK MONUMENT SIGN		

LOCATION MAP



PROJECT INFORMATION

PROJECT IS LOCATED AT THE FOLLOWING PARCELS:
 PARCEL 1 (BLAKE STREET TO PARKER STREET), APN 54-1790-28
 PARCEL 2 (PARKER STREET TO CARLETON STREET), APN 54-1794-28
 PARCEL 3 (CARLETON STREET TO DERBY STREET), APN 54-1793-27
 PARCEL 4 (DERBY STREET TO WARD STREET), APN 54-1735-20

THIS PROJECT ENTAILS THE CONVERSION OF A FORMER RAILROAD RIGHT-OF-WAY INTO A PUBLIC PARK SPANNING FOUR INDIVIDUAL PARCELS. THE PROGRAMATIC ELEMENTS OF THE PARK INCLUDE A COMMUNITY GARDEN, DOG PARK DIVIDED IN TWO SEPERATE AREAS FOR ACTIVE PLAY AND RELAXED PLAY, KID'S SCOOTER AND CYCLE TRACK, PLAYGROUND, TEACHING GARDEN, OUTDOOR CLASSROOM, AND PICNIC AREA. RAILROAD TRACKS AND RELATED INFRASTRUCTURE HAVE BEEN REMOVED FROM THE SITE. CLEANUP OF SOIL CONTAMINATION LEFT BEHIND BY THE SITE'S HISTORIC RAILROAD USE WILL BE COMPLETED PRIOR TO THE START OF THIS SCOPE OF WORK THROUGH A SEPARATE CONTRACT AND THE SITE WILL BE CLEAR OF CONTAMINATION AT THE START OF THIS PROJECT. THE CITY IS PURSUING SEVERAL LOT LINE ADJUSTMENTS WHICH WILL BE COMPLETED PRIOR TO THE START OF THIS PROJECT.

WORK SHOWN IN THE PUBLIC RIGHT-OF-WAY WILL BE UNDER A SEPARATE PUBLIC WORKS PERMIT(S)

COMMUNITY GARDEN SHED(S) IS NOT IN THE SCOPE OF THIS PERMIT.

ADD ALTERNATES LISTED BELOW ARE WITHIN THE PERMIT SCOPE WITH THE EXCEPTION OF #5, WHICH IS A DEFERRED SUBMITTAL.

ADD ALTERNATE NO 1: PARCEL 1 - COMMUNITY GARDEN SHED, BULK STORAGE, AND GARDEN WORK BENCH

ADD ALTERNATE NO 2: PARCEL 1 - IN GROUND BEDS, PICNIC TABLES, AND COLD FRAMES

ADD ALTERNATE NO 3: PARCEL 2 - FREESTANDING LOGS

ADD ALTERNATE NO 4: PARCEL 4 - ACCESSIBLE COLD FRAME, BULK MATERIAL STORAGE, GARDEN TRELIS, AND ADA PICNIC TABLE

ADD ALTERNATE NO 5 (DEFERRED SUBMITTAL): PARCELS 2 THRU 4 - CONDUIT AND FEEDERS FOR PARK LIGHTS

PRIME CONSULTANT

LANDSCAPE ARCHITECT:

MIG | PGA
 CATHY GARRETT
 800 HEARST AVENUE
 BERKELEY, CA 94710
 TEL: (510) 845-7549 EXT.1089
 EMAIL: CGARRETT@MIGCOM.COM

PROJECT TEAM

CIVIL ENGINEER:

SHERWOOD DESIGN ENGINEERS
 JOHN LEYS
 2548 MISSION ST
 SAN FRANCISCO, CA 94110
 TEL: (415) 677-7300
 EMAIL: JLEYS@SHERWOODENGINEERS.COM

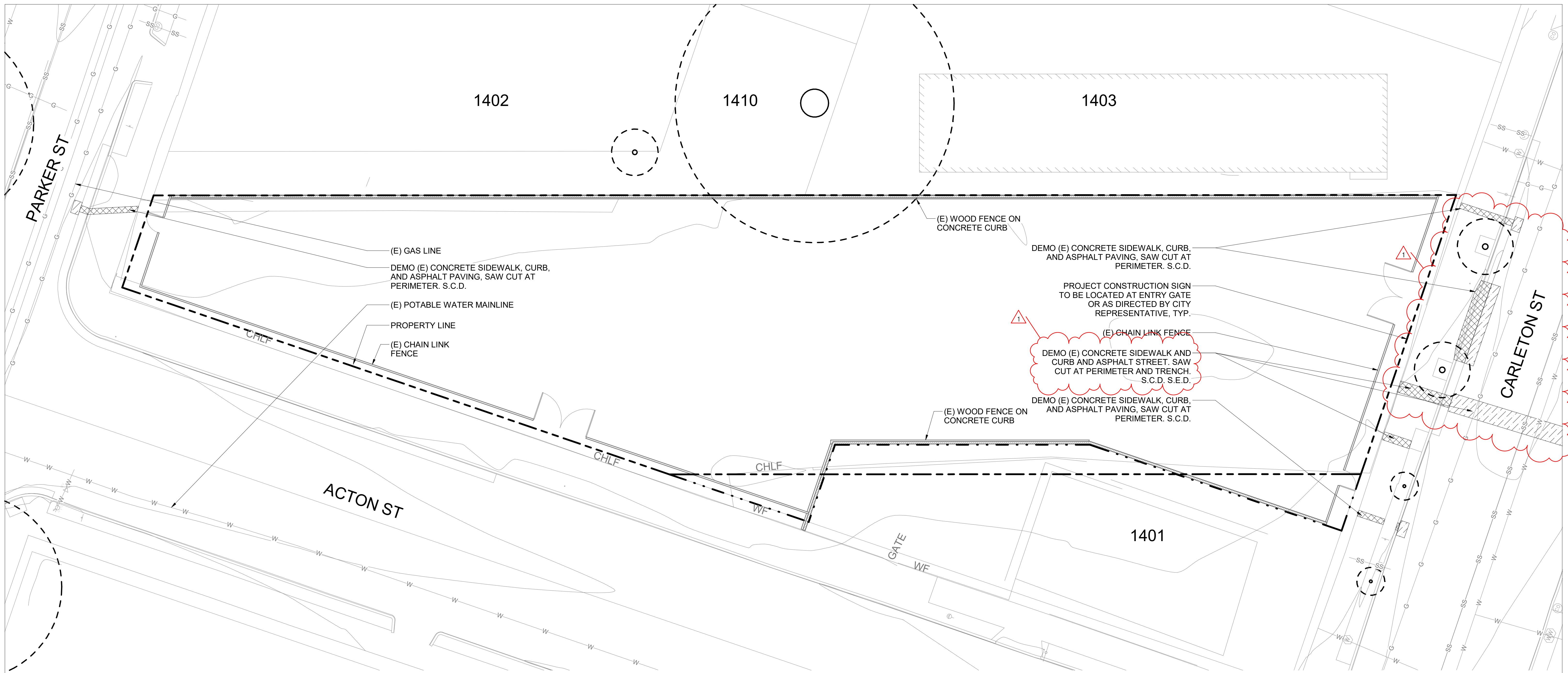
ELECTRICAL ENGINEER:

PEARCE SERVICES
 JEFFREY H. ANSLEY
 1480 MORAGA RD, SUITE C # 229
 SAN FRANCISCO, CA 94556
 TEL: (510) 868-0701
 EMAIL: JEFF.ANSLEY@PEARCE-SERVICES.COM



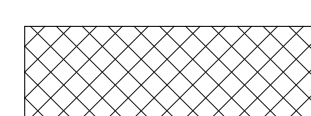
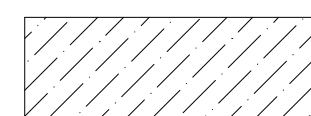
PROJECT CONTACT

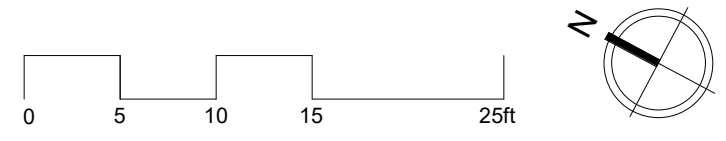
STACEY RUTHERFORD, P.E.
 CITY OF BERKELEY
 DEPARTMENT OF PARKS, RECREATION, AND WATERFRONT
 1947 CENTER ST, 5TH FLOOR
 BERKELEY, CA 94704
 TEL: (510) 981-6738
 EMAIL: SRUTHERFORD@BERKELEYCA.GOV

BID SET



DEMOLITION LEGEND

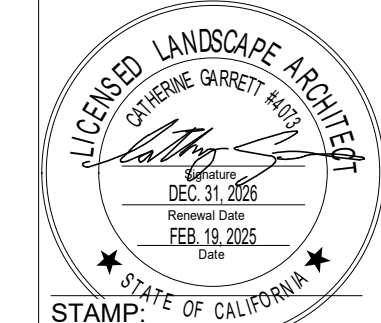
-  PROPERTY LINE
-  PENDING LOT LINE ADJUSTMENT
-  DEMO EXISTING CONCRETE PAVING
-  DEMO EXISTING ASPHALT PAVING



- NOTES:**
- DEMOLITION WORK IS LIMITED TO THE RIGHT-OF-WAY. PRIOR TO THIS PROJECT, A SEPARATE CONTRACT WILL CLEAR THE SITE, REMOVE CONTAMINATED SOIL AND REPLACE IT WITH CLEAN SOIL, AND INSTALL 6-FT MAX PERIMETER FENCING. EXISTING GRADES WILL BE LOWERED APPROXIMATELY 4-INCHES SHOWN HEREIN. THE SITE WILL BE ENTIRELY CLEARED OF ANY TREES, HARDSCAPE, AND STRUCTURES.
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MIG | **PGA**

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BERKELEY, CA 94710
TEL: (510) 845-7549



**Santa Fe Trackbed to
Park Conversion Project
Remediation,
Demolition and
Perin**
Berkeley, Cancing

PRWPK2102

PROJECT NUMBER:

City of Berkeley

2180 MILVIA STREET, 3RD FLOOR
BERKELEY, CA 94704

CLIENT:

CIVIL ENGINEER:
SHERWOOD DESIGN ENGINEERS
2548 MISSION ST
SAN FRANCISCO, CA 94110
TEL: (415) 677-7300

ELECTRICAL ENGINEER:
PEARCE SERVICES LLC
122 VINE STREET, SUITE 301
PASO ROBLES, CA 93446
TEL: (805) 467-2528

SPEC NO.
26-11757-C

PLAN NO.
8288

FILE NO.
406-222

REVISION		
NUMBER	DATE	DESCRIPTION
	10/17/2025	PERMIT RESUBMITTAL 1
	4/1/2026	PERMIT RESUBMITTAL 2/BID SET
1	6/3/2026	BID ADDENDUM 1

BID ADDENDUM 1

ISSUE:
6/3/2026

DATE:

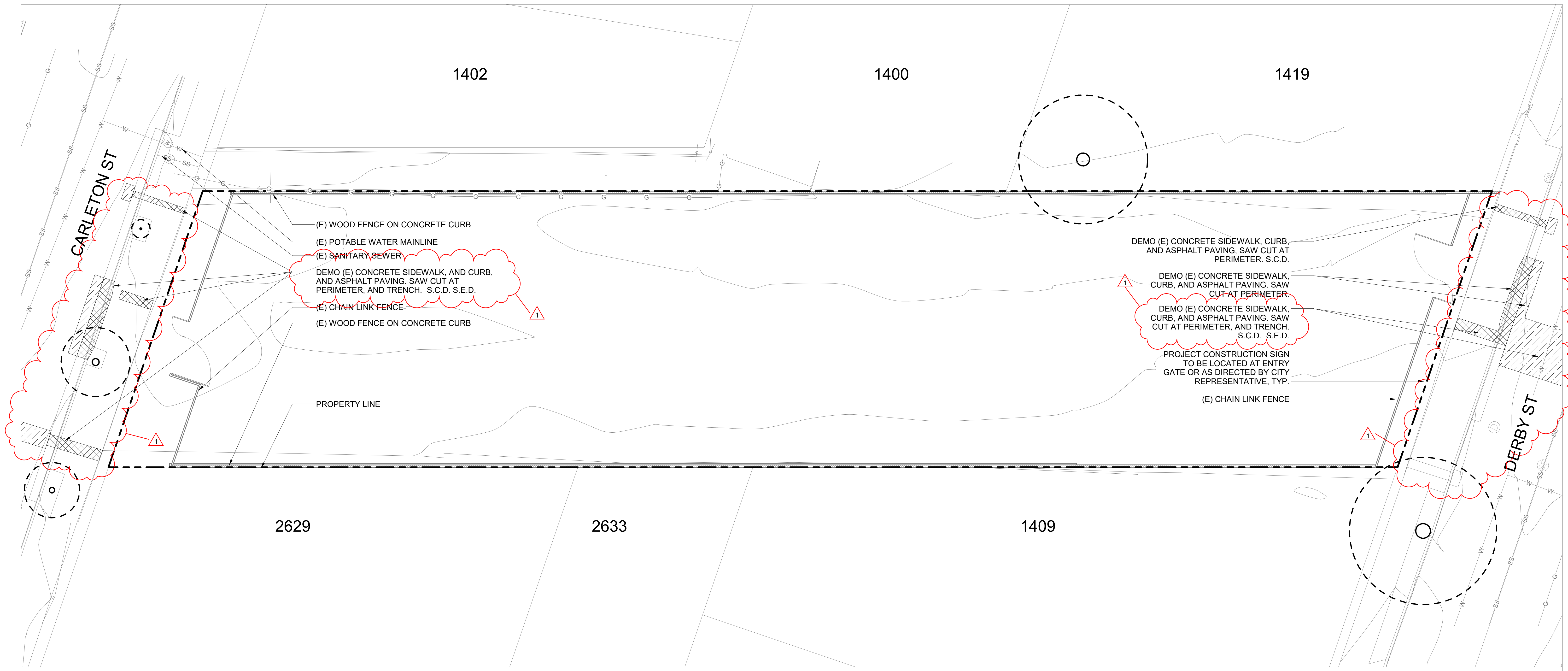
**DEMOLITION PLAN
- PARKER TO
CARLETON**

SHEET TITLE:

G2.02

SHEET NUMBER:



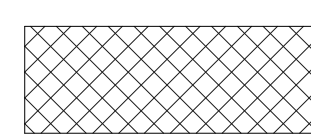
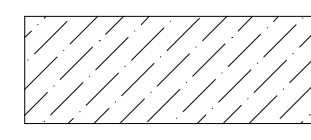
PRWPK21012 - SANTA FE RIGHT OF WAY NEW PARK DEVELOPMENT



(E) WOOD FENCE ON CONCRETE CURB
 (E) POTABLE WATER MAINLINE
 (E) SANITARY SEWER
 DEMO (E) CONCRETE SIDEWALK, AND CURB, AND ASPHALT PAVING. SAW CUT AT PERIMETER, AND TRENCH. S.C.D. S.E.D.
 (E) CHAIN LINK FENCE
 (E) WOOD FENCE ON CONCRETE CURB

DEMO (E) CONCRETE SIDEWALK, CURB, AND ASPHALT PAVING. SAW CUT AT PERIMETER. S.C.D.
 DEMO (E) CONCRETE SIDEWALK, CURB, AND ASPHALT PAVING. SAW CUT AT PERIMETER.
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 PROJECT CONSTRUCTION SIGN TO BE LOCATED AT ENTRY GATE OR AS DIRECTED BY CITY REPRESENTATIVE, TYP.
 (E) CHAIN LINK FENCE

DEMOLITION LEGEND

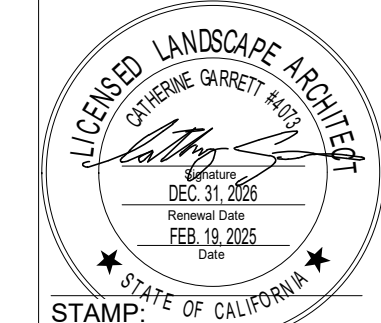
-  PROPERTY LINE
-  PENDING LOT LINE ADJUSTMENT
-  DEMO EXISTING CONCRETE PAVING
-  DEMO EXISTING ASPHALT PAVING

NOTES:

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MIG | **PGA**

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 BERKELEY, CA 94710
 TEL: (510) 845-7549



Santa Fe Trackbed to Park Conversion Project
Remediation, Demolition and
Perin
 Berkeley, CAncing

PROJECT NUMBER:
PRWPK2102

CLIENT:
City of Berkeley
 2180 MILVIA STREET, 3RD FLOOR
 BERKELEY, CA 94704

CONSULTANTS:

CIVIL ENGINEER:
 SHERWOOD DESIGN ENGINEERS
 2548 MISSION ST
 SAN FRANCISCO, CA 94110
 TEL: (415) 677-7300

ELECTRICAL ENGINEER:
 PEARCE SERVICES LLC
 122 VINE STREET, SUITE 301
 PASO ROBLES, CA 93446
 TEL: (805) 467-2528

SPEC NO.
 26-11757-C

PLAN NO.
 8288

FILE NO.
 406-222

REVISION		
NUMBER	DATE	DESCRIPTION
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BID ADDENDUM 1

ISSUE:
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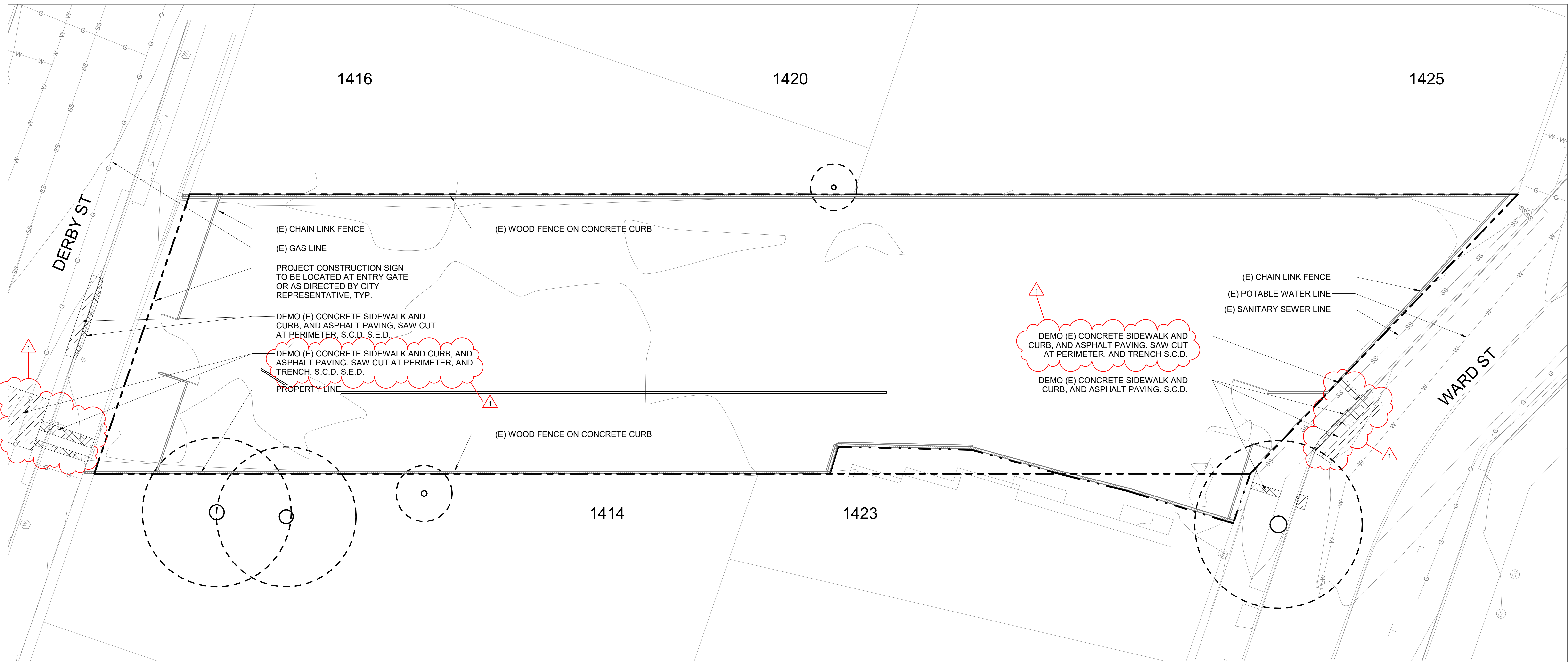
DEMOLITION PLAN
- CARLETON TO DERBY

SHEET TITLE:

G2.03

SHEET NUMBER:

PRWPK21012 - SANTA FE RIGHT OF WAY NEW PARK DEVELOPMENT



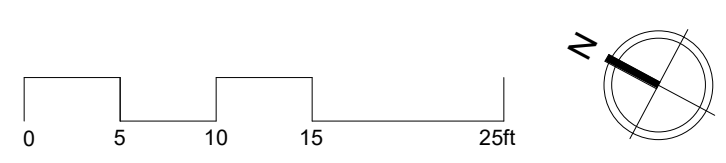
(E) CHAIN LINK FENCE
 (E) GAS LINE
 PROJECT CONSTRUCTION SIGN TO BE LOCATED AT ENTRY GATE OR AS DIRECTED BY CITY REPRESENTATIVE, TYP.
 DEMO (E) CONCRETE SIDEWALK AND CURB, AND ASPHALT PAVING, SAW CUT AT PERIMETER, S.C.D. S.E.D.
 DEMO (E) CONCRETE SIDEWALK AND CURB, AND ASPHALT PAVING, SAW CUT AT PERIMETER, AND TRENCH, S.C.D. S.E.D.
 PROPERTY LINE
 (E) WOOD FENCE ON CONCRETE CURB

DEMOS (E) CONCRETE SIDEWALK AND CURB, AND ASPHALT PAVING, SAW CUT AT PERIMETER, AND TRENCH S.C.D.
 DEMO (E) CONCRETE SIDEWALK AND CURB, AND ASPHALT PAVING, S.C.D.

(E) CHAIN LINK FENCE
 (E) POTABLE WATER LINE
 (E) SANITARY SEWER LINE

DEMOLITION LEGEND

- PROPERTY LINE
- . - . - . PENDING LOT LINE ADJUSTMENT
- [Cross-hatched box] DEMO EXISTING CONCRETE PAVING
- [Diagonal-hatched box] DEMO EXISTING ASPHALT PAVING



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Santa Fe Trackbed to Park Conversion Project
Remediation, Demolition and
Perin Berkeley, Cancing

PROJECT NUMBER: **PRWPK2102**

Client: **City of Berkeley**
 2180 MILVIA STREET, 3RD FLOOR
 BERKELEY, CA 94704

CONSULTANTS:
 CIVIL ENGINEER: SHERWOOD DESIGN ENGINEERS
 2548 MISSION ST
 SAN FRANCISCO, CA 94110
 TEL: (415) 677-7300

ELECTRICAL ENGINEER: PEARCE SERVICES LLC
 122 VINE STREET, SUITE 301
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SPEC NO. 26-11757-C
 PLAN NO. 8288
 FILE NO. 406-222

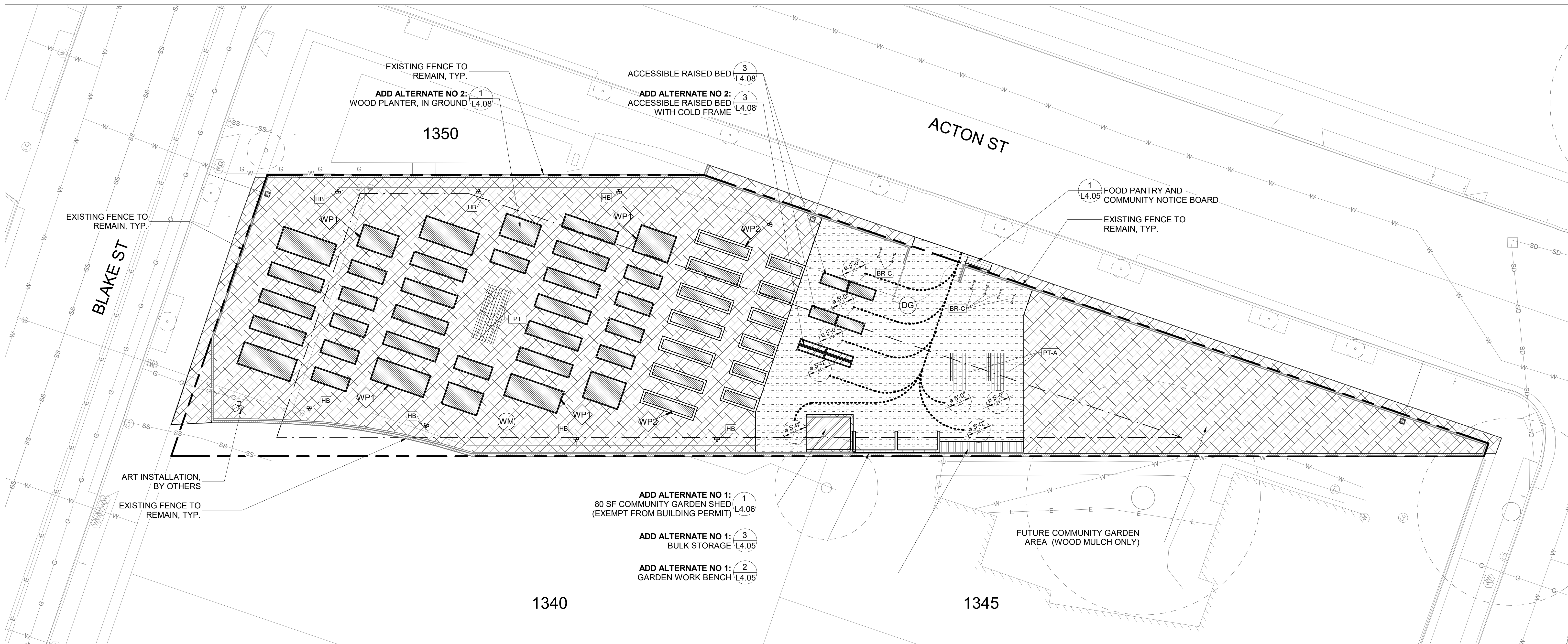
REVISION		
NUMBER	DATE	DESCRIPTION
	10/17/2025	PERMIT RESUBMITTAL 1
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1	6/3/2026	BID ADDENDUM 1

BID ADDENDUM 1
 ISSUE: **6/3/2026**
 DATE:

DEMOLITION PLAN - DERBY TO WARD
 SHEET TITLE:

G2.04
 SHEET NUMBER:

PRWPK21012 - SANTA FE RIGHT OF WAY NEW PARK DEVELOPMENT



LANDSCAPE HARDSCAPE MATERIAL LEGEND

- STABILIZED DECOMPOSED GRANITE PAVING (3 L4.01)
- RED PAINTED ROLLED CURB OR DRIVEWAY S.C.D.

LANDSCAPE FURNISHINGS LEGEND

- HOSE BIB (6 L4.09)
- CIRCLE BIKE RACK (7 L4.12)
- ADD ALTERNATE NO 2:** PICNIC TABLE (8 L4.12)
- ADD ALTERNATE NO 2:** ADA PICNIC TABLE (8 L4.12)

LANDSCAPE SOFTSCAPE MATERIAL LEGEND

- PLANTER SOIL, SEE SPECS
- WOOD MULCH PAVING (6 L4.01)

LANDSCAPE WALL TYPE LEGEND

- ADD ALTERNATE NO 2:** WOOD PLANTER, IN GROUND (1 L4.08)
- WOOD PLANTER, RAISED (2 L4.08)

GENERAL SYMBOLS & ABBREVIATIONS

- POINT OF BEGINNING
- CENTERLINE
- PROPERTY LINE
- PENDING LOT LINE ADJUSTMENT
- PROPERTY LINE SETBACKS
- CONTOUR LINE - 1'
- CONTOUR LINE - 3'
- EXPANSION JOINT
- CONTROL JOINT
- ACCESSIBLE PATH OF TRAVEL
- DETAIL CALLOUT
- EQ. EQUAL
- (E) EXISTING
- O.C. ON CENTER
- MAX. MAXIMUM
- MIN. MINIMUM
- S.C.D. SEE CIVIL DRAWINGS
- S.E.D. SEE ELECTRICAL DRAWINGS
- TYP. TYPICAL

TREE LEGEND

- PROPOSED TREE
- EXISTING TREE TO REMAIN, SEE TREE PRESERVATION PLAN

LANDSCAPE GENERAL NOTES

1. 'TYP' OR TYPICAL MEANS THAT THE CONDITION IS REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT, UNLESS OTHERWISE NOTED. DETAILS ARE USUALLY NOTED 'TYP' ONLY ONCE WHEN THEY FIRST OCCUR.
2. NOTES AND SYMBOLS ON ONE DRAWING APPLY TO OTHER SIMILAR DETAILS AND CONDITIONS.
3. REFER TO GRADING PLANS FOR GRADING AND DRAINAGE STRUCTURES PRIOR TO INSTALLATION OF WALKS, WALLS, FOOTINGS, AND OTHER STRUCTURES.
4. LOCATE ELECTRICAL JUNCTION BOXES FOR LIGHTS IN PLANTING AREAS UNLESS SHOWN OTHERWISE. LAYOUT TO BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO TRENCHING.
5. CAREFULLY REVIEW LANDSCAPE IRRIGATION PLANS AND NOTES TO IDENTIFY LOCATIONS WHERE PIPE, SLEEVES, SANDBED OR CONDUIT MUST BE PLACED PRIOR TO PLACEMENT OF FORMWORK FOR INSTALLATION OF CONCRETE, OTHER PAVING, OR WALLS. COORDINATE WITH OTHER DRATES TO INSTALL IRRIGATION PIPE, SLEEVE, SANDBEDDING, OR CONDUIT. SHOULD CONFLICTS ARISE, REVIEW WITH OWNER'S REPRESENTATIVE FOR RESOLUTION.
6. QUANTITIES PROVIDED ARE FOR INFORMATION ONLY, VERIFY QUANTITIES AND NOTIFY OWNER OF DISCREPANCIES.
7. SIDEWALK DAMAGED BY THE CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED IN ACCORDANCE WITH CITY OF BERKELEY STANDARDS (BMC 16.04.010, "SIDEWALK REPAIR REQUIREMENTS"). PRIOR TO FINALING THIS BUILDING PERMIT, CONTRACTOR SHALL CONTACT AN ENGINEERING INSPECTOR AT 510-981-6400 AND SCHEDULE AN APPOINTMENT TO REVIEW SIDEWALK CONDITIONS TO DETERMINE WHETHER REPLACEMENT/REPAIR IS REQUIRED.

MIG | **PGA**

800 HEARST AVENUE
BERKELEY, CA 94710
TEL: (510) 845-7549

LICENSED LANDSCAPE ARCHITECT
CHRISTINE GARRETT HENLEY
DEC. 31, 2026
FEB. 19, 2025
STATE OF CALIFORNIA

Santa Fe Trackbed to Park Conversion Project
Remediation, Demolition and
Perin Berkeley, CAncing

PRWPK2102

PROJECT NUMBER:

City of Berkeley

2180 MILVIA STREET, 3RD FLOOR
BERKELEY, CA 94704

CLIENT:

CIVIL ENGINEER:
SHERWOOD DESIGN ENGINEERS
2548 MISSION ST
SAN FRANCISCO, CA 94110
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ELECTRICAL ENGINEER:
PEARCE SERVICES LLC
122 VINE STREET, SUITE 301
PASO ROBLES, CA 93446
TEL: (805) 467-2528

SPEC NO. 26-11757-C

PLAN NO. 8288

FILE NO. 406-222

REVISION		
NUMBER	DATE	DESCRIPTION
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1	6/3/2026	BID ADDENDUM 1

BID ADDENDUM 1

ISSUE: 6/3/2026

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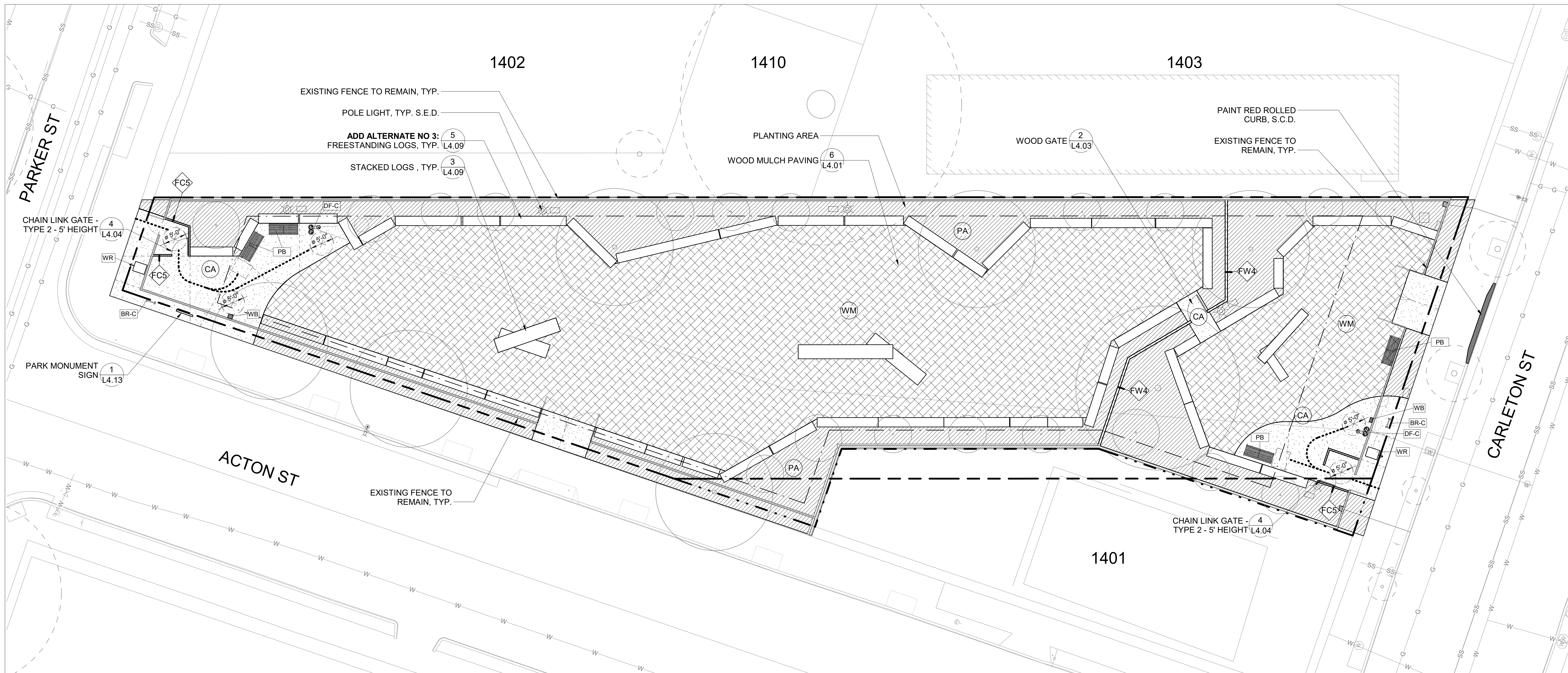
MATERIALS PLAN - BLAKE TO PARKER

SHEET TITLE:

L1.01

SHEET NUMBER:

PRWPK21012 - SANTA FE RIGHT OF WAY NEW PARK DEVELOPMENT



LANDSCAPE HARDSCAPE MATERIAL LEGEND

- CONCRETE PAVING, TYPE A
- RED PAINTED ROLLED CURB S.C.D.

LANDSCAPE FURNISHINGS LEGEND

- BENCH (2) L4.12
- WASTE RECEPTACLE (1) L4.12
- DRINKING FOUNTAIN, TYPE C (1) L4.12
- CIRCLE BIKE RACK (7) L4.12
- DOG WASTE BAG DISPENSER (5) L4.12

LANDSCAPE SOFTSCAPE MATERIAL LEGEND

- PLANTING AREA, SEE PLANTING PLANS FOR SPECIES (1) L4.10 (2) L4.10 (4) L4.10
- WOOD MULCH PAVING (6) L4.01

LANDSCAPE WALL TYPE LEGEND

- 5' CHAIN LINK FENCE (1) L4.04
- 4' WOOD FENCE (1) L4.03

GENERAL SYMBOLS & ABBREVIATIONS

- POINT OF BEGINNING
- CENTERLINE
- PROPERTY LINE
- PENDING LOT LINE ADJUSTMENT
- PROPERTY LINE SETBACKS
- CONTOUR LINE - 1'
- CONTOUR LINE - 3"
- EXPANSION JOINT
- CONTROL JOINT
- ACCESSIBLE PATH OF TRAVEL
- DETAIL CALLOUT
- EQ. EQUAL
- (E) EXISTING
- O.C. ON CENTER
- MAX. MAXIMUM
- MIN. MINIMUM
- S.C.D. SEE CIVIL DRAWINGS
- S.E.D. SEE ELECTRICAL DRAWINGS
- TYP. TYPICAL

TREE LEGEND

- PROPOSED TREE
- EXISTING TREE TO REMAIN, SEE TREE PRESERVATION PLAN

LANDSCAPE GENERAL NOTES

1. 'TYP' OR TYPICAL MEANS THAT THE CONDITION IS REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT. UNLESS OTHERWISE NOTED. DETAILS ARE USUALLY NOTED 'TYP' ONLY ONCE WHEN THEY FIRST OCCUR.
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LICENSED LANDSCAPE ARCHITECT
CHRISTINE GARRETT HENLEY
DEC. 31, 2026
RENEWAL DATE
FEB. 19, 2025
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Santa Fe Trackbed to Park Conversion Project
Remediation, Demolition and
Perin Berkeley, CAncing

PROJECT NUMBER: **PRWPK2102**

CITY OF BERKELEY
2180 MILVIA STREET, 3RD FLOOR
BERKELEY, CA 94704

CIVIL ENGINEER:
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2548 MISSION ST
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SPEC NO. 26-11757-C
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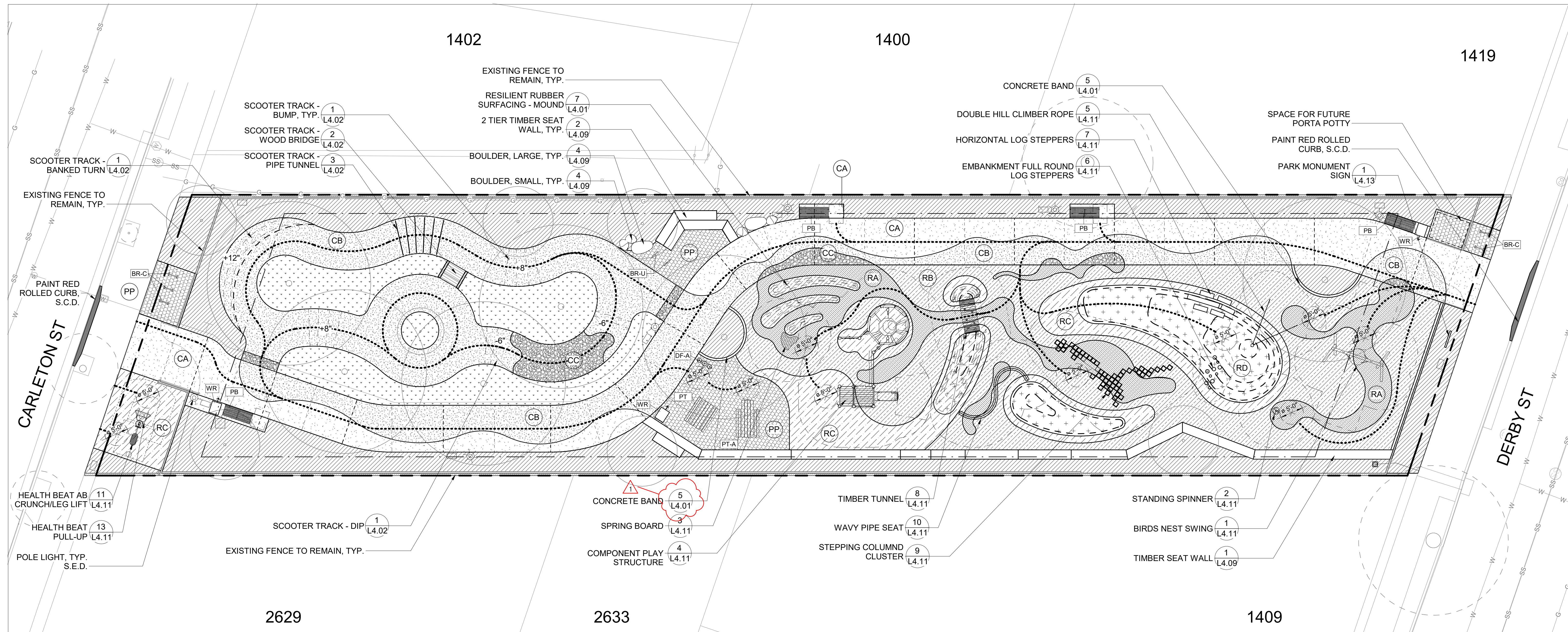
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ISSUE: **6/3/2026**
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MATERIALS PLAN - PARKER TO CARLETON

L1.02

PRWPK21012 - SANTA FE RIGHT OF WAY NEW PARK DEVELOPMENT



LANDSCAPE HARDSCAPE MATERIAL LEGEND

- CONCRETE PAVING, TYPE A
- CONCRETE PAVING, TYPE B
- CONCRETE PAVING, TYPE C
- PERMEABLE PAVERS (2) L4.01
- RESILIENT RUBBER SURFACING, COLOR A (7) L4.01
- RESILIENT RUBBER SURFACING, COLOR B (7) L4.01
- RESILIENT RUBBER SURFACING, COLOR C (7) L4.01
- RESILIENT RUBBER SURFACING, COLOR D (7) L4.01
- RED PAINTED ROLLED CURB S.C.D.

LANDSCAPE SOFTSCAPE MATERIAL LEGEND

- PLANTING AREA, SEE PLANTING PLANS FOR SPECIES (1) L4.10 (2) L4.10 (4) L4.10

LANDSCAPE FURNISHINGS LEGEND

- BENCH (2) L4.12
- WASTE RECEPTACLE (3) L4.12
- DRINKING FOUNTAIN, TYPE A (1) L4.12
- BIKE RACK (7) L4.12
- BIKE RACK-CHILD'S (6) L4.12
- DOG WASTE BAG DISPENSER (5) L4.12
- PICNIC TABLE (8) L4.12
- ADA PICNIC TABLE (8) L4.12

GENERAL SYMBOLS & ABBREVIATIONS

- POINT OF BEGINNING EQ. EQUAL
- CENTERLINE (E) EXISTING
- PROPERTY LINE O.C. ON CENTER
- PENDING LOT LINE ADJUSTMENT MAX. MAXIMUM
- PROPERTY LINE SETBACKS MIN. MINIMUM
- CONTOUR LINE - 1' S.C.D. SEE CIVIL DRAWINGS
- CONTOUR LINE - 3' S.E.D. SEE ELECTRICAL DRAWINGS
- EXPANSION JOINT TYP. TYPICAL
- CONTROL JOINT
- ACCESSIBLE PATH OF TRAVEL
- DETAIL CALLOUT

TREE LEGEND

- PROPOSED TREE
- EXISTING TREE TO REMAIN, SEE TREE PRESERVATION PLAN

LANDSCAPE GENERAL NOTES

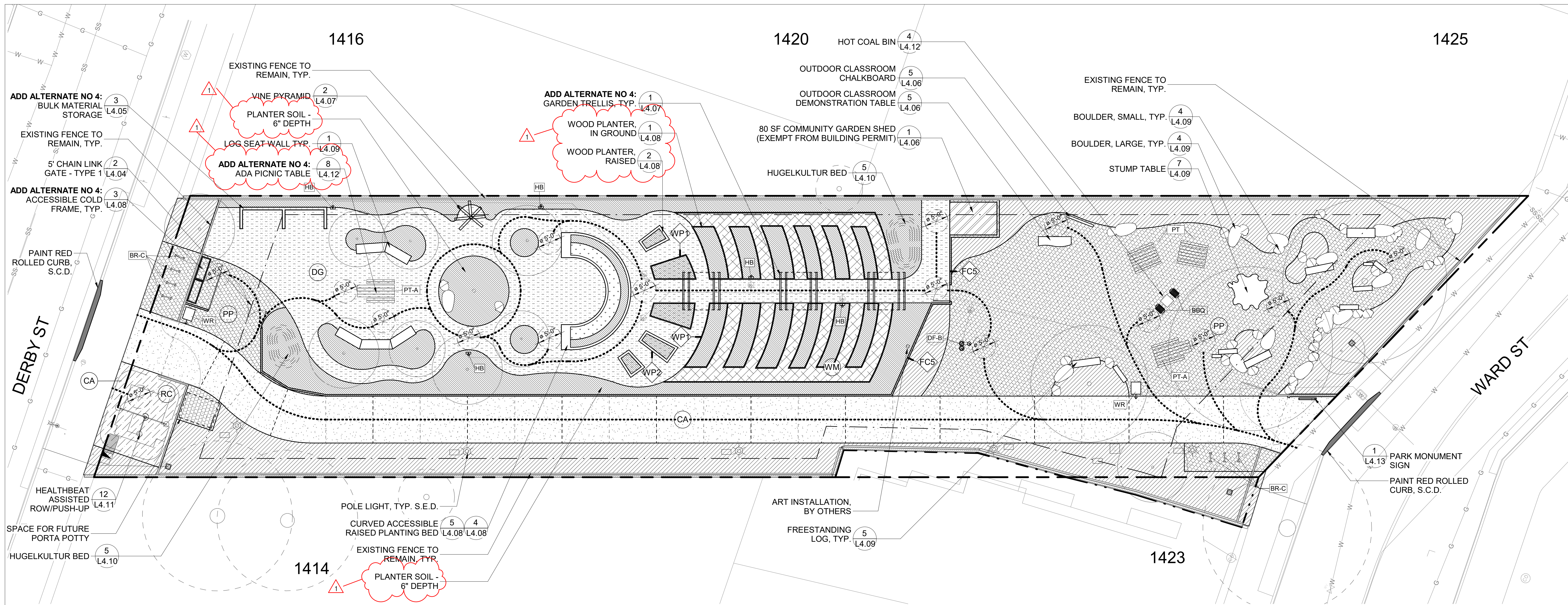
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3. REFER TO GRADING PLANS FOR GRADING AND DRAINAGE STRUCTURES PRIOR TO INSTALLATION OF WALKS, WALLS, FOOTINGS, AND OTHER STRUCTURES.
4. LOCATE ELECTRICAL JUNCTION BOXES FOR LIGHTS IN PLANTING AREAS UNLESS SHOWN OTHERWISE. LAYOUT TO BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO TRENCHING.
5. CAREFULLY REVIEW LANDSCAPE IRRIGATION PLANS AND NOTES TO IDENTIFY LOCATIONS WHERE PIPE, SLEEVES, SANDBED OR CONDUIT MUST BE PLACED PRIOR TO PLACEMENT OF FORMWORK FOR INSTALLATION OF CONCRETE, OTHER PAVING, OR WALLS. COORDINATE WITH OTHER DRATES TO INSTALL IRRIGATION PIPE, SLEEVE, SANDBEDDING, OR CONDUIT. SHOULD CONFLICTS ARISE, REVIEW WITH OWNER'S REPRESENTATIVE FOR RESOLUTION.
6. QUANTITIES PROVIDED ARE FOR INFORMATION ONLY. VERIFY QUANTITIES AND NOTIFY OWNER OF DISCREPANCIES.
7. SIDEWALK DAMAGED BY THE CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED IN ACCORDANCE WITH CITY OF BERKELEY STANDARDS (BMC 16.04.010, "SIDEWALK REPAIR REQUIREMENTS"). PRIOR TO FINALING THIS BUILDING PERMIT, CONTRACTOR SHALL CONTACT AN ENGINEERING INSPECTOR AT 510-981-6400 AND SCHEDULE AN APPOINTMENT TO REVIEW SIDEWALK CONDITIONS TO DETERMINE WHETHER REPLACEMENT/REPAIR IS REQUIRED.

PLAY EQUIPMENT ADA ANALYSIS

ELEVATED ACTIVITIES	TOTAL 4	REQUIRED 0
ELEVATED ACTIVITIES (ACCESSIBLE)	TOTAL 2	REQUIRED 2
GROUND LEVEL ACTIVITIES	TOTAL 11	REQUIRED 2
GROUND LEVEL PLAY TYPES	TOTAL 6	REQUIRED 6

			<p>Santa Fe Trackbed to Park Conversion Project Remediation, Demolition and PerinBerkeley, Cancing</p>	<p>PRWPK2102</p>	<p>City of Berkeley 2180 MILVIA STREET, 3RD FLOOR BERKELEY, CA 94704</p>	<p>CIVIL ENGINEER: SHERWOOD DESIGN ENGINEERS 2548 MISSION ST SAN FRANCISCO, CA 94110 TEL: (415) 677-7300</p>	<p>ELECTRICAL ENGINEER: PEARCE SERVICES LLC 122 VINE STREET, SUITE 301 PASO ROBLES, CA 93446 TEL: (805) 467-2528</p>	<p>SPEC NO. 26-11757-C</p> <p>PLAN NO. 8288</p> <p>FILE NO. 406-222</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">REVISION</th> </tr> <tr> <th>NUMBER</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>10/17/2025</td> <td></td> <td>PERMIT RESUBMITTAL 1</td> </tr> <tr> <td>4/1/2026</td> <td></td> <td>PERMIT RESUBMITTAL 2/BID SET</td> </tr> <tr> <td>1</td> <td>6/3/2026</td> <td>BID ADDENDUM 1</td> </tr> </tbody> </table>	REVISION			NUMBER	DATE	DESCRIPTION	10/17/2025		PERMIT RESUBMITTAL 1	4/1/2026		PERMIT RESUBMITTAL 2/BID SET	1	6/3/2026	BID ADDENDUM 1	<p>BID ADDENDUM 1</p> <p>ISSUE: 6/3/2026</p> <p>DATE:</p>	<p>MATERIALS PLAN - CARLETON TO DERBY</p> <p>SHEET TITLE:</p>	<p>L1.03</p> <p>SHEET NUMBER:</p>
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PRWPK21012 - SANTA FE RIGHT OF WAY NEW PARK DEVELOPMENT



LANDSCAPE HARDSCAPE MATERIAL LEGEND

CA	CONCRETE PAVING, TYPE A
DG	STABILIZED DECOMPOSED GRANITE PAVING (3) L4.01
PP	PERMEABLE PAVERS (2) L4.01
RC	RESILIENT RUBBER SURFACING COLOR, C (7) L4.01

LANDSCAPE SOFTSCAPE MATERIAL LEGEND

PA	PLANTING AREA, SEE PLANTING PLANS FOR SPECIES (1) L4.10 (2) L4.10 (4) L4.10
GB	PLANTER SOIL, SEE SPECS
WM	WOOD MULCH PAVING (6) L4.01

LANDSCAPE WALL TYPE LEGEND

WP1	WOOD PLANTER, IN GROUND (1) L4.08
WP2	WOOD PLANTER, RAISED (2) L4.08
FC5	5' CHAIN LINK FENCE (1) L4.04

LANDSCAPE FURNISHINGS LEGEND

PB	BENCH (2) L4.12
PT	PICNIC TABLE (8) L4.12
PT-A	ADA PICNIC TABLE (8) L4.12
DF-B	DRINKING FOUNTAIN, TYPE B (1) L4.12
WR	WASTE RECEPTACLE (3) L4.12
HB	HOSE BIB (6) L4.09
BR-C	BIKE RACK (7) L4.12
BBO	BBQ GRILL (9) L4.12

GENERAL SYMBOLS & ABBREVIATIONS

●	POINT OF BEGINNING	EQ.	EQUAL
—	CENTERLINE	(E)	EXISTING
---	PROPERTY LINE	O.C.	ON CENTER
- - - -	PENDING LOT LINE ADJUSTMENT	MAX.	MAXIMUM
- · - · -	PROPERTY LINE SETBACKS	MIN.	MINIMUM
---	CONTOUR LINE - 1'	S.C.D.	SEE CIVIL DRAWINGS
---	CONTOUR LINE - 3"	S.E.D.	SEE ELECTRICAL DRAWINGS
---	EXPANSION JOINT	TYP.	TYPICAL
---	CONTROL JOINT		
---	ACCESSIBLE PATH OF TRAVEL		
○	DETAIL CALLOUT		

TREE LEGEND

○	PROPOSED TREE	○	EXISTING TREE TO REMAIN, SEE TREE PRESERVATION PLAN
---	---------------	---	---

LANDSCAPE GENERAL NOTES

- 'TYP' OR TYPICAL MEANS THAT THE CONDITION IS REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT, UNLESS OTHERWISE NOTED. DETAILS ARE USUALLY NOTED 'TYP' ONLY ONCE WHEN THEY FIRST OCCUR.
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MIG **PGA**

800 HEARST AVENUE
BERKELEY, CA 94710
TEL: (510) 845-7549

LICENSED LANDSCAPE ARCHITECT
CHRISTINE GARRETT HENLEY
DEC. 31, 2026
FEB. 19, 2025
STATE OF CALIFORNIA

Santa Fe Trackbed to Park Conversion Project
Remediation, Demolition and Perin
Berkeley, CAncing

PRWPK2102

City of Berkeley
2180 MILVIA STREET, 3RD FLOOR
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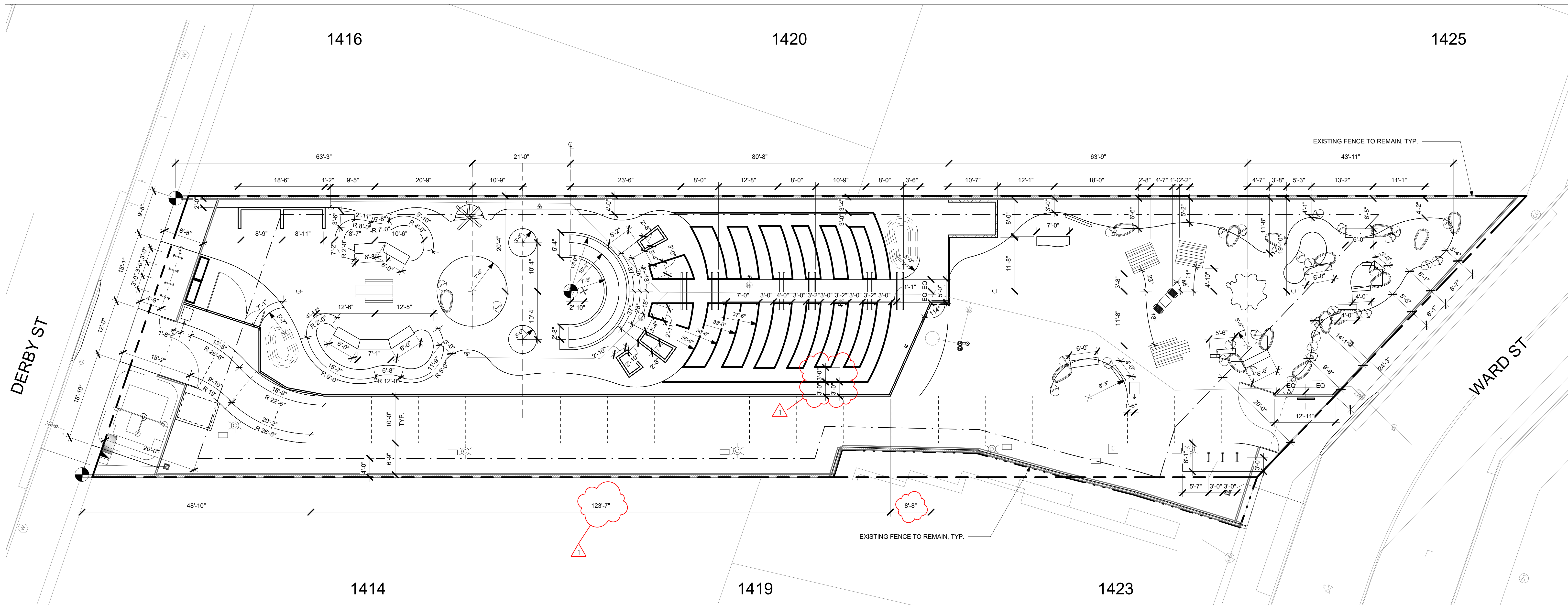
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MATERIALS PLAN - DERBY TO WARD
SHEET TITLE:

L1.04
SHEET NUMBER:

PRWPK21012 - SANTA FE RIGHT OF WAY NEW PARK DEVELOPMENT



GENERAL SYMBOLS & ABBREVIATIONS

- | | | | |
|--|-----------------------------|--------|-------------------------|
| | POINT OF BEGINNING | EQ. | EQUAL |
| | CENTERLINE | (E) | EXISTING |
| | PROPERTY LINE | O.C. | ON CENTER |
| | PENDING LOT LINE ADJUSTMENT | MAX. | MAXIMUM |
| | PROPERTY LINE SETBACKS | MIN. | MINIMUM |
| | CONTOUR LINE - 1' | S.C.D. | SEE CIVIL DRAWINGS |
| | CONTOUR LINE - 3' | S.E.D. | SEE ELECTRICAL DRAWINGS |
| | EXPANSION JOINT | TYP. | TYPICAL |
| | CONTROL JOINT | | |
| | ACCESSIBLE PATH OF TRAVEL | | |
| | DETAIL CALLOUT | | |

LANDSCAPE LAYOUT NOTES

- LAYOUT PLANS ASSUME THAT PRIMARY FIELD LAYOUT WILL BE COMPLETED USING LANDSCAPE ARCHITECT'S CAD FILES, AND THAT DIMENSIONS SHOWN IN PLAN ARE FOR REFERENCE ONLY.
- DIMENSIONS ARE FROM OUTSIDE FACE OF BUILDING OR WALLS, UNLESS OTHERWISE NOTED, AND ARE TO BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION AND MAJOR EXCAVATION. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALING.
- UNLESS OTHERWISE NOTED, ANGLES TO BE RIGHT ANGLES, ARCS WHICH APPEAR TANGENT AND UNIFORM ARE TO BE TANGENT AND UNIFORM, LINES WHICH APPEAR PARALLEL ARE TO BE PARALLEL, AND ITEMS WHICH APPEAR CENTERED TO BE CENTERED, MAINTAIN LINES TRUE, LEVEL, PLUMB, AND SQUARE.
- LANDSCAPE ARCHITECT TO APPROVE LAYOUT IN THE FIELD PRIOR TO INSTALLATION OF FORMS OR GRADING FOR LANDSCAPE WORK.

MIG | **PGA**
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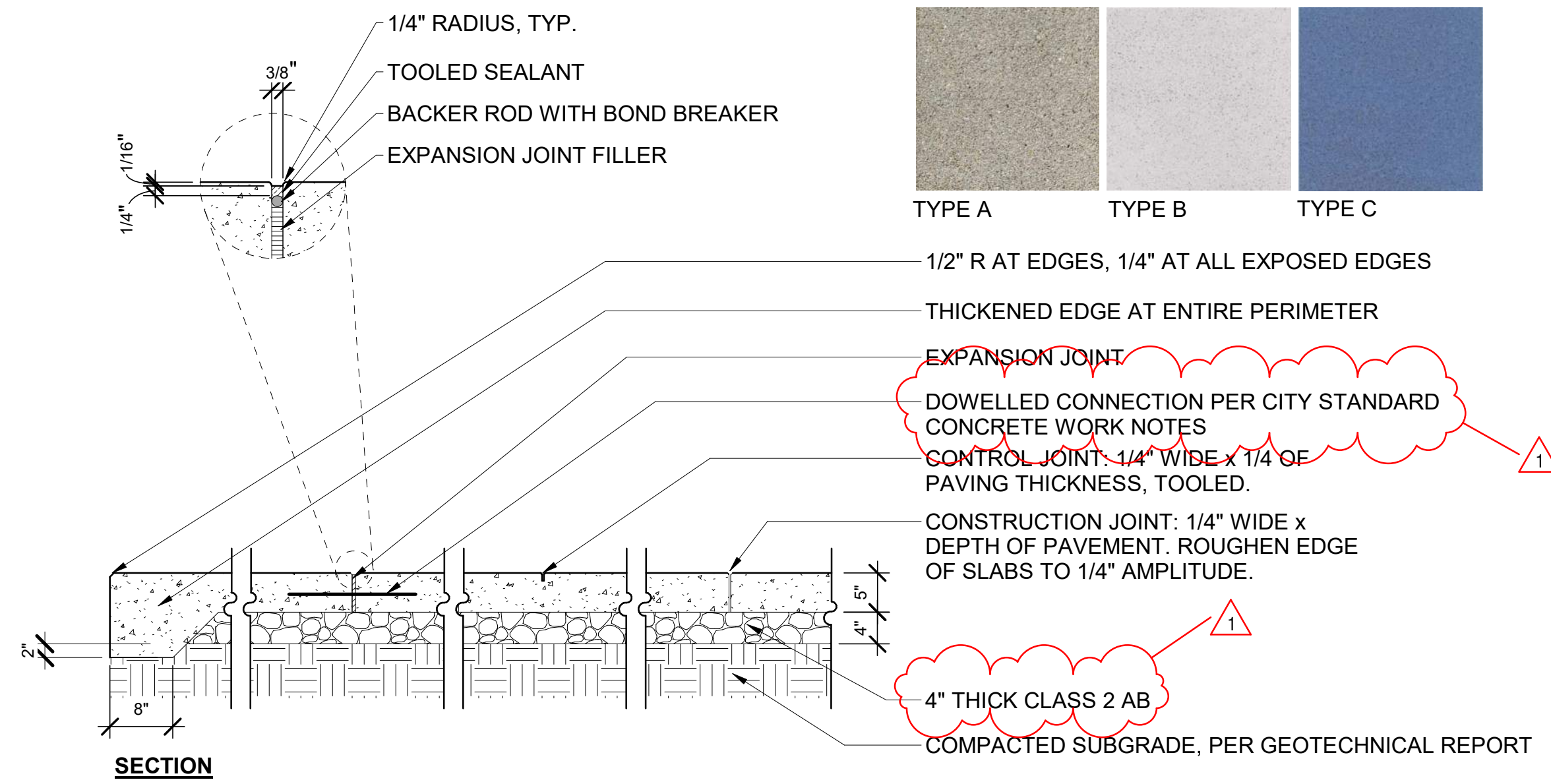
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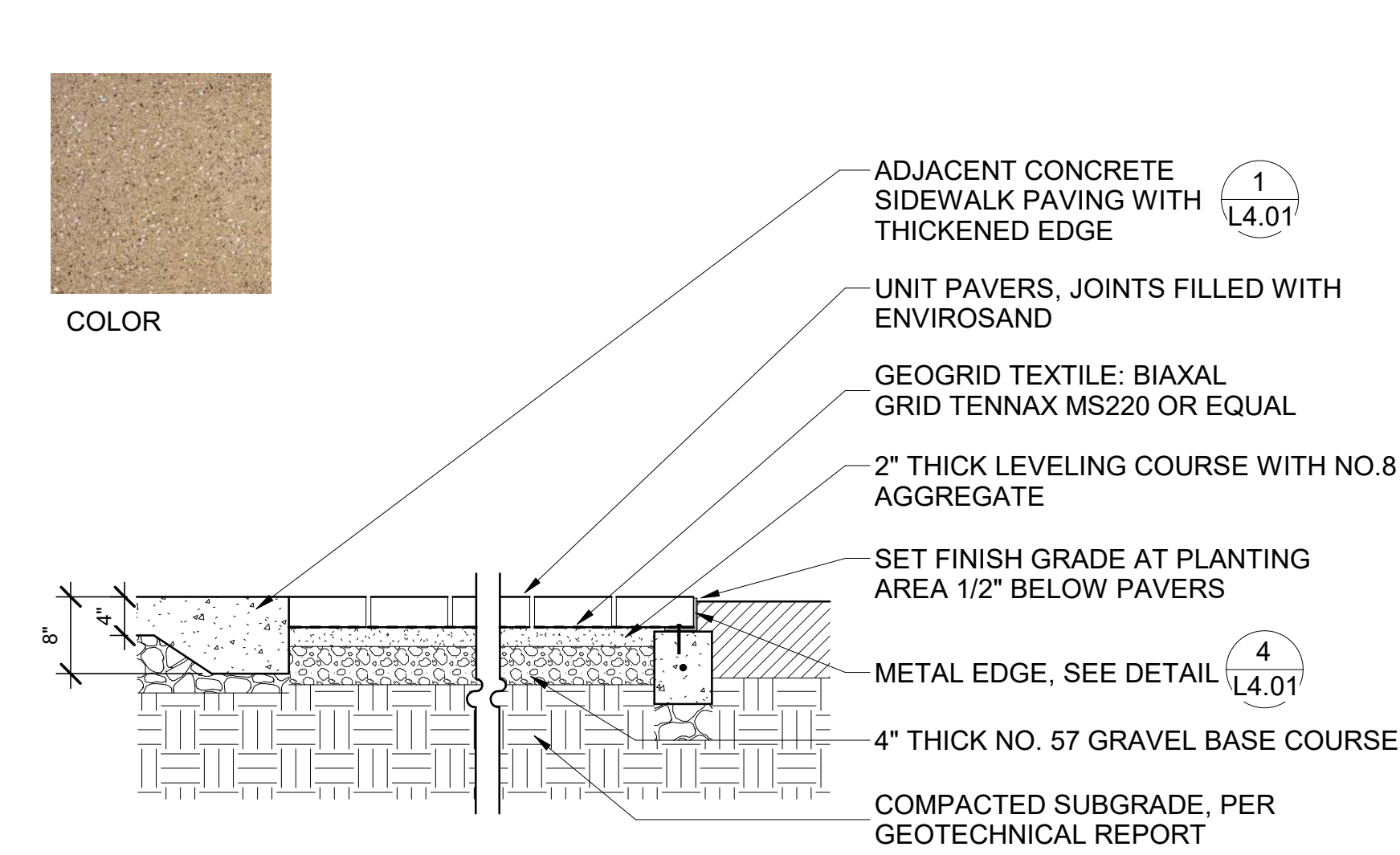
LAYOUT PLAN - DERBY TO WARD
 SHEET TITLE:

L2.04
 SHEET NUMBER:



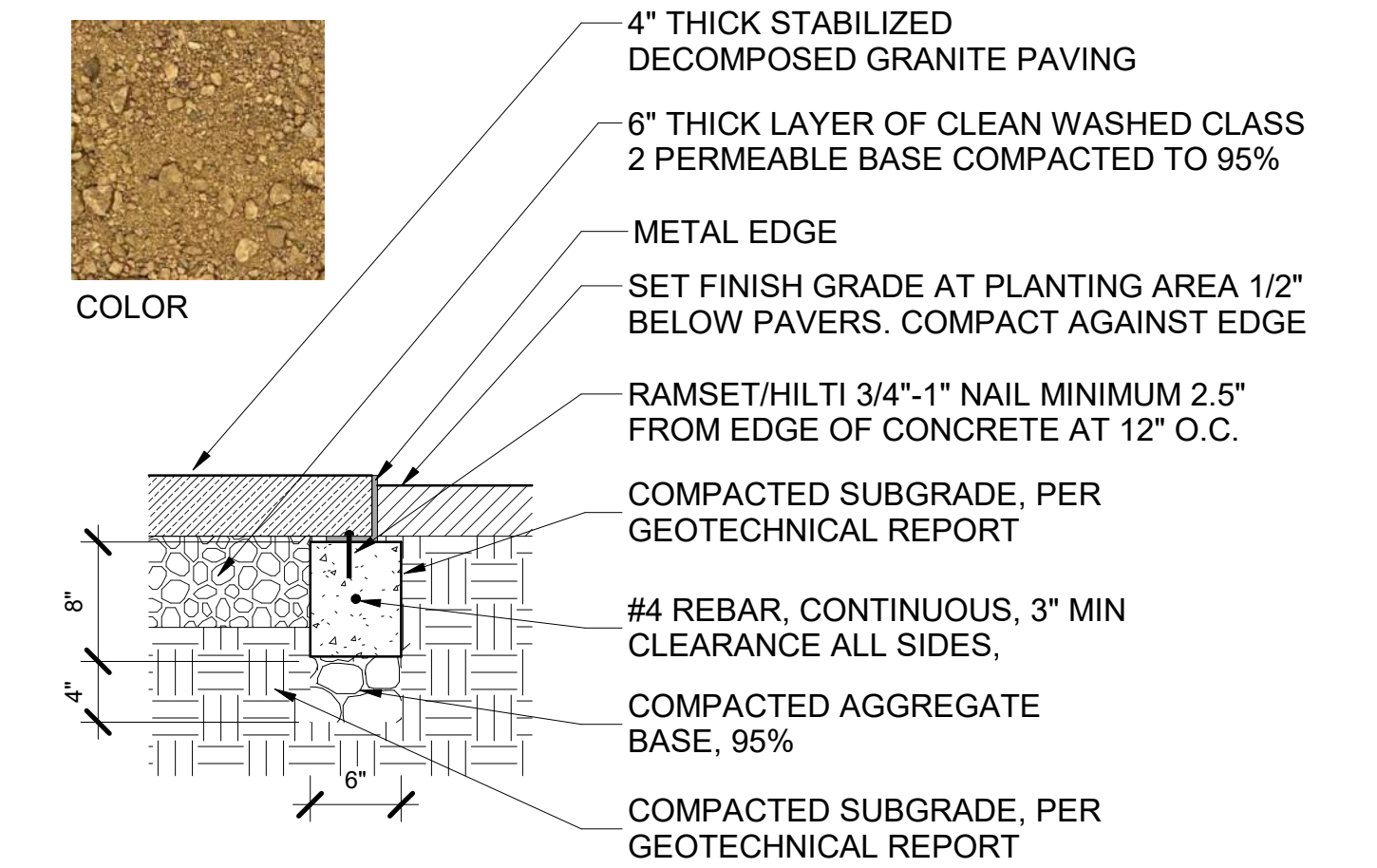
- NOTES:
- INSTALL EXPANSION JOINT IN PAVING AS SHOWN AND WHERE PAVING ABUTS WALLS, CURBS, AND ADJACENT PAVING.
 - CAULK/SEALANT TO MATCH COLOR OF ADJACENT PAVING, TOOL THE SEALANT.
 - CONCRETE FINISHES
 - TYPE A: PLAIN GRAY WITH LITHOCAST SURFACE RETARDER 03 MEDIUM ACID WASH FINISH
 - TYPE B: EMERCHROME SC COLOR HARDER - ASH WHITE, WITH LITHOCAST SURFACE RETARDER 03 MEDIUM ACID WASH FINISH
 - TYPE C: EMERCHROME SC COLOR HARDER - DENIM BLUE, WITH LITHOCAST SURFACE RETARDER 03 MEDIUM ACID WASH FINISH
 - FINISH MANUFACTURER: SIKA, WEBSITE: [HTTPS://USA.SIKA.COM](https://usa.sika.com); TELEPHONE: 201-933-8800.
 - PROVIDE MOCKUP OF COLOR AND FINISH FOR APPROVAL

1 CONCRETE PAVING
L4.01 3/4" = 1'-0"



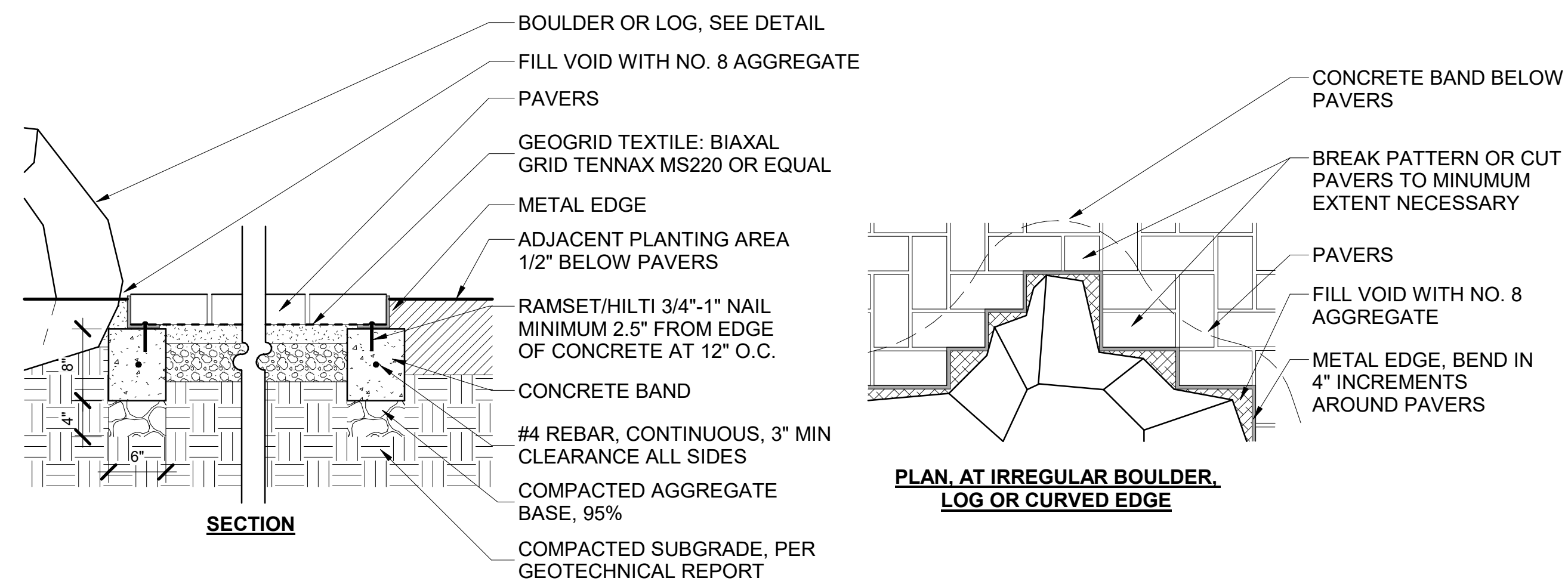
- NOTES:
- WHERE A BRICK PAVER LESS THAN 30% OF A FULLSIZE BRICK WOULD BE REQUIRED TO END A LINE OF BRICKS IN THE HERRINGBONE PATTERN, PUT THE END TWO BRICKS IN THE LINE WITH NEITHER BRICK BEING LESS THAN 30%. END WITH A FULL SIZE UN-CUT PAVER AT ENTIRE PERIMETER WHERE POSSIBLE.
 - CONCRETE UNIT PAVERS: H-SERIES; SIZE: 4" x 8"; MANUFACTURER: WAUSAU, WWW.WAUSAU.COM
A. COLOR B: HRL-20

2 PERMEABLE PAVERS
L4.01 3/4" = 1'-0"



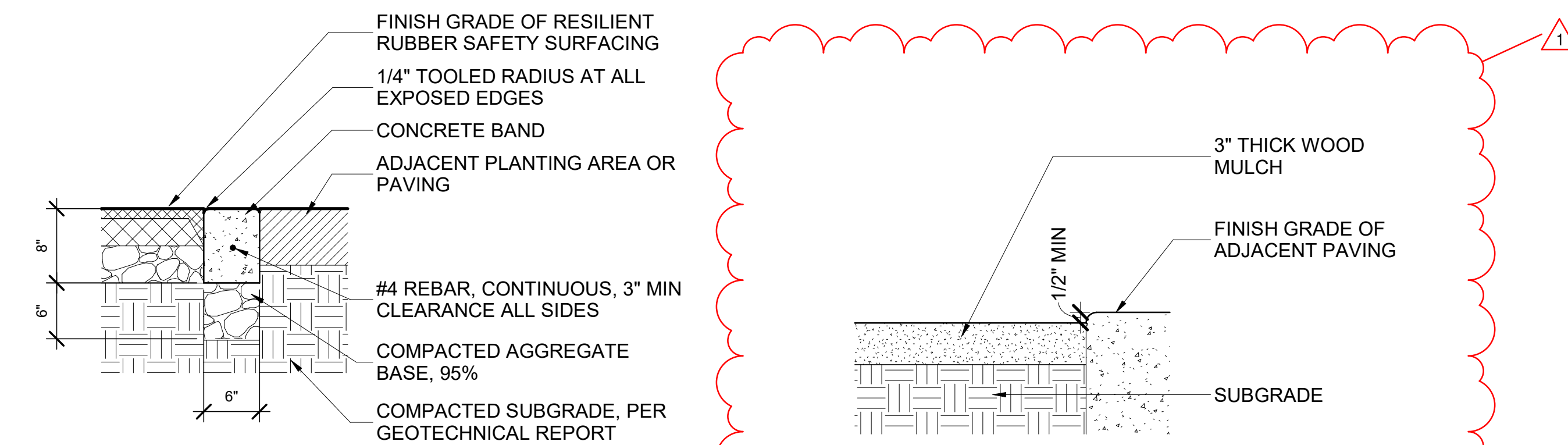
- NOTES:
- STABILIZED DECOMPOSED GRANITE:
 - ORGANIC-LOCK, COLOR: CALIFORNIA GOLD, PHONE, 1-866-636-8476, WEB: www.organic-lock.com
 - METAL EDGE NOT REQUIRED AT RAISED BEDS OR CONCRETE PAVING.
 - METAL EDGE: ASPHALT EDGE ALUMINUM ASPHALT RESTRAINT 3" x 3"; COLOR: BLACK. MANUFACTURED BY PERMALOC CORPORATION, PHONE 800-356-9660; WEB: www.permaloc.com.

3 STABILIZED DECOMPOSED GRANITE PAVING
L4.01 1" = 1'-0"



- NOTES:
- METAL EDGE: ASPHALT EDGE ALUMINUM ASPHALT RESTRAINT 3" x 3"; COLOR: BLACK.
 - MANUFACTURED BY PERMALOC CORPORATION, PHONE 800-356-9660; WEB: www.permaloc.com.

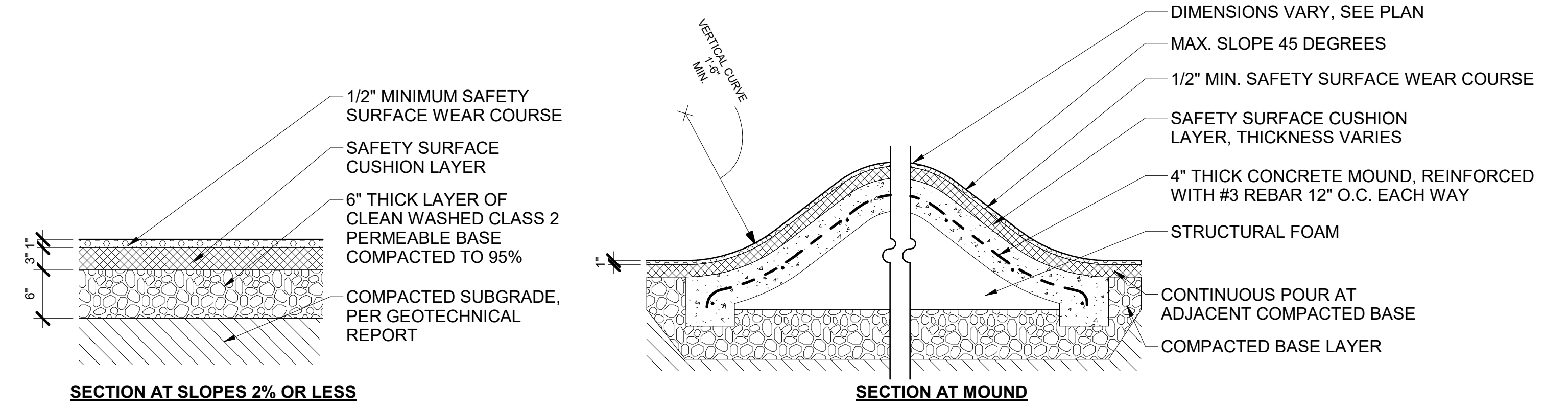
4 METAL EDGE AT PERMEABLE CONCRETE PAVERS
L4.01 1" = 1'-0"



- NOTES: SEE SPECIFICATIONS FOR MULCH PRODUCT.

5 CONCRETE BAND
L4.01 1" = 1'-0"

6 WOOD MULCH PAVING
L4.01 1 1/2" = 1'-0"



SECTION AT SLOPES 2% OR LESS

SECTION AT MOUND

BEVEL CUT FOR WEAR LAYER AT INTERFACE BETWEEN TWO COLORS

- NOTES:
- SAFETY SURFACE CUSHION LAYER DEPTH TO BE DETERMINED BY FALL HEIGHT OF ADJACENT PLAY EQUIPMENT AND VERIFIED IN FIELD BY CONTRACTOR.
 - PLAY EQUIPMENT FOOTINGS TO BE SET AT NECESSARY DEPTH TO ACHIEVE FULL COVER OF SAFETY SURFACING.
 - POURED IN PLACE RESILIENT RUBBER SURFACING: SPECTRATURF; MANUFACTURED BY: SPECTRATURF, WWW.SPECTRATURF.COM, (800) 875-5788 OR APPROVED EQUIVALENT; COLOR:
 - COLOR A: 40% SKY BLUE, 20% AQUAMARINE, 20% COBALT BLUE, 20% COCONUT CREAM
 - COLOR B: 25% SKY BLUE, 25% AQUAMARINE, 25% PAMPAS IVORY, 20% COCONUT CREAM
 - COLOR C: 25% SANDSTONE BEIGE, 25% PAMPAS IVORY, 25% HONEY GOLD, 25% COCONUT CREAM
 - COLOR D: 40% SHAMROCK GREEN, 40% IVY GREEN, 20% PAMPAS IVORY

7 RESILIENT RUBBER SURFACING
L4.01 1" = 1'-0"



800 HEARST AVENUE
BERKELEY, CA 94710
TEL: (510) 845-7549



**Santa Fe Trackbed to
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Remediation,
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PRWPK2102

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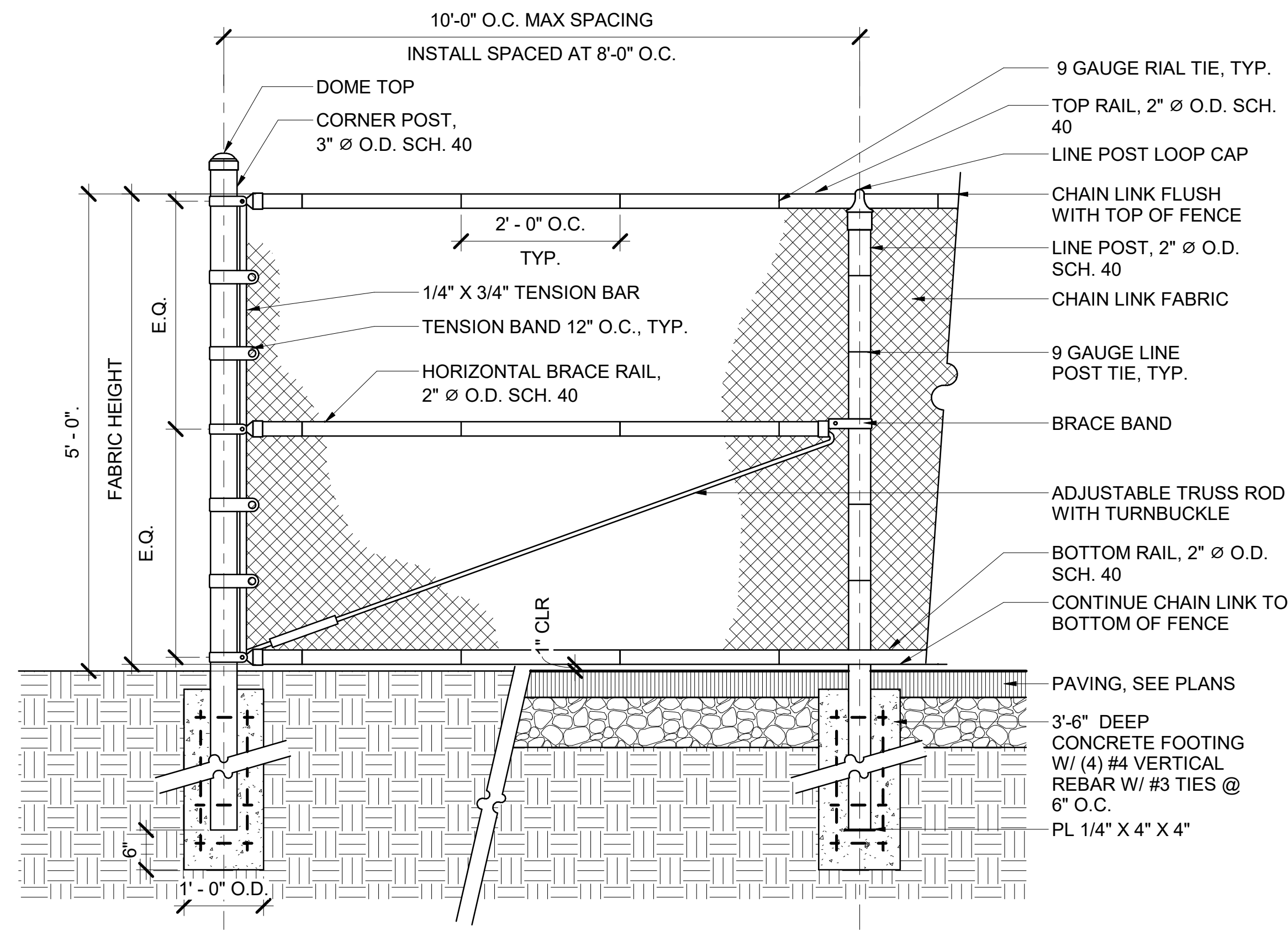
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DETAILS - PAVING
AND WALL

SHEET TITLE:

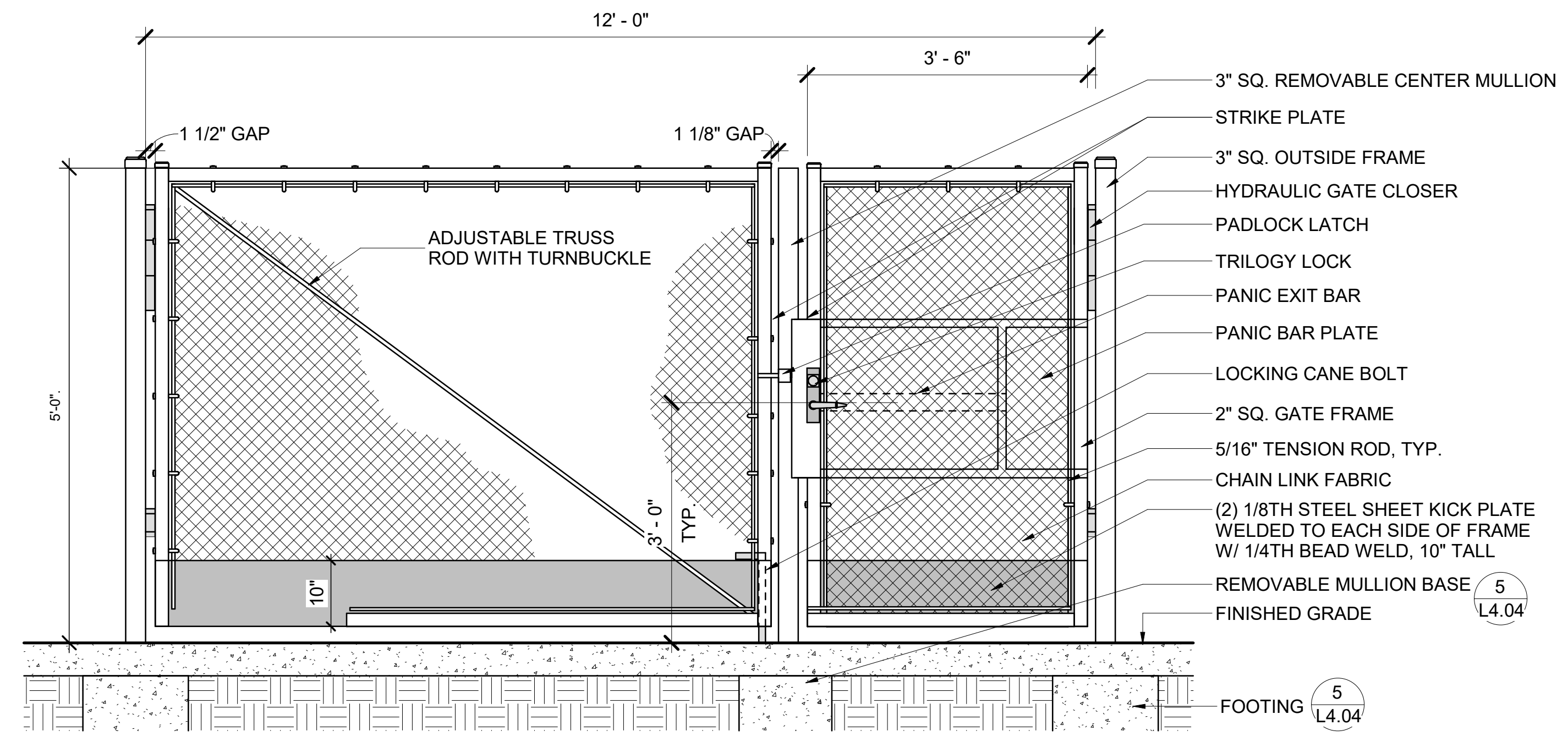
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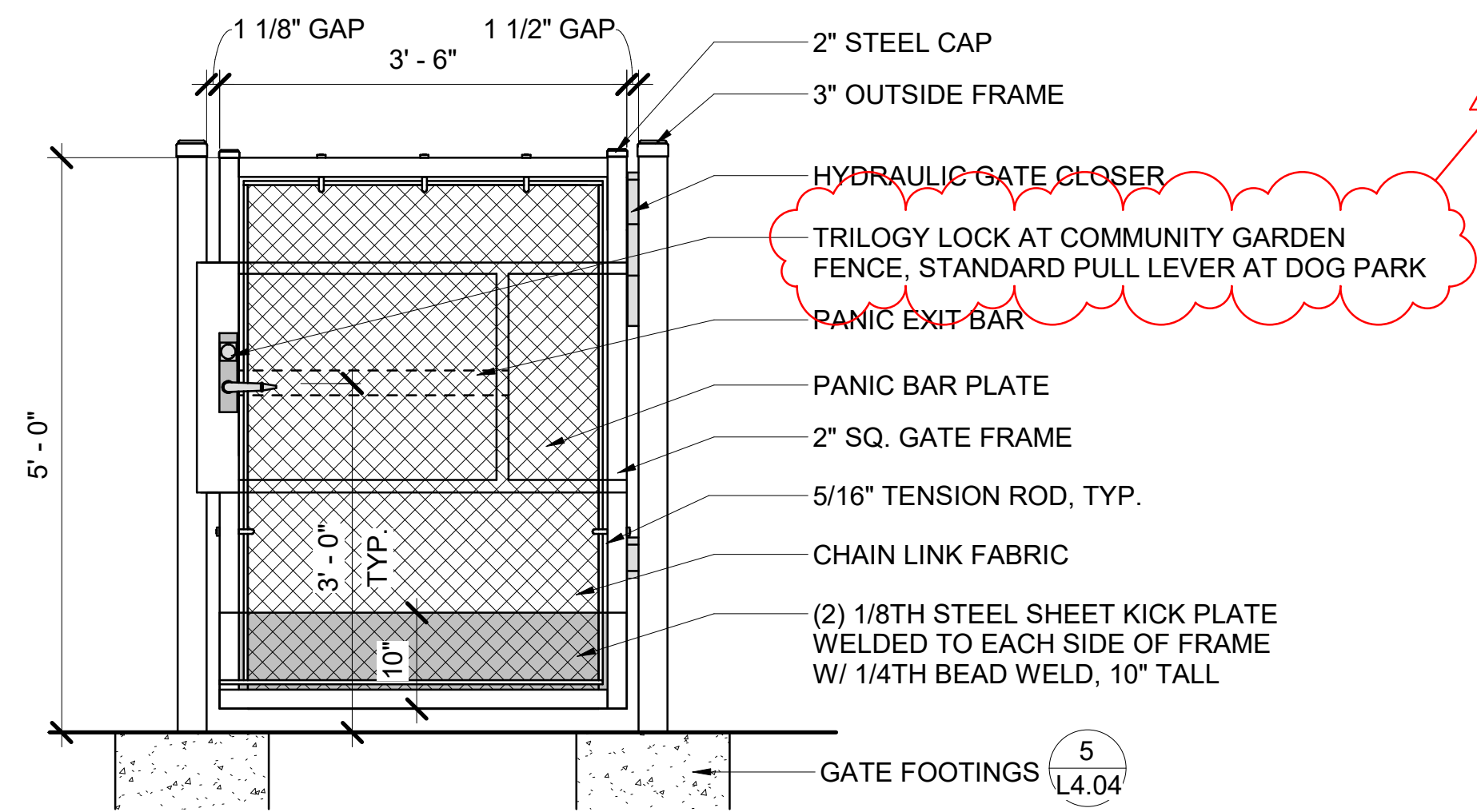
- NOTES:
- CHAIN LINK FENCE MODEL: GALVANIZED CHAIN LINK FENCE, HEAVY DUTY
 - MESH SIZE 2" DIAMOND, 11 GAUGE GALVANIZED
 - FENCE & MESH COLOR: BLACK
 - MANUFACTURER: MERCHANT METALS, WEBSITE: [HTTPS://WWW.MERCHANTSMETALS.COM/](https://www.merchantsmetals.com/)
 - SUBMIT SHOP DRAWINGS & CORRELATING FIELD MEASUREMENTS FOR REVIEW AND ACCEPTANCE, DOCUMENTING ANY STEP DOWNS. TOP OF FENCE TO BE LEVEL AND STEP DOWN AS NEEDED.

1 X CHAIN LINK FENCE
L4.04 3/4" = 1'-0"



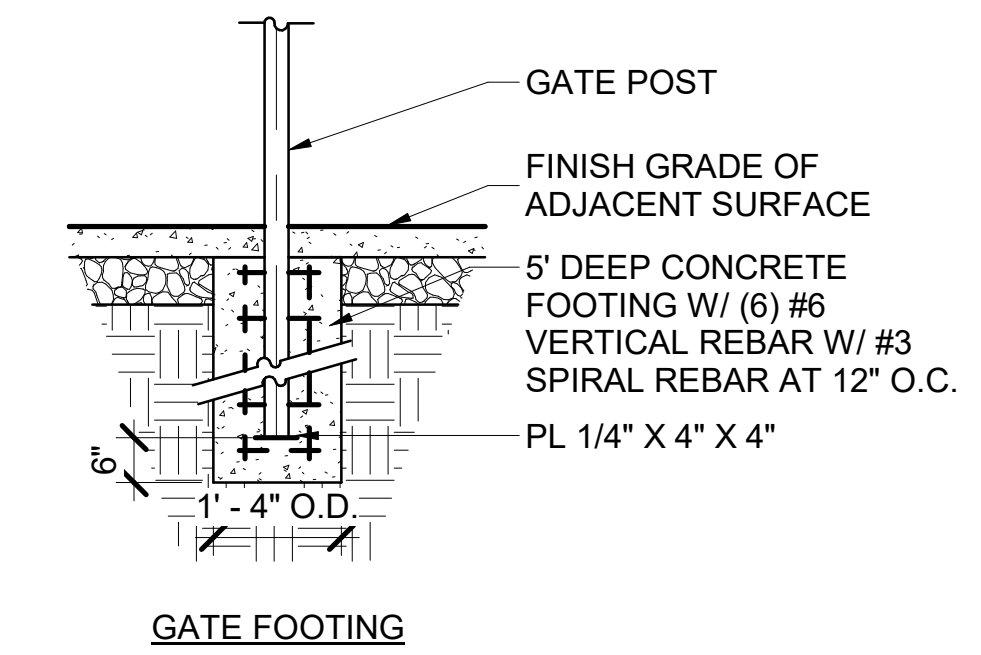
- NOTES:
- ALL MATERIALS ARE BY MERCHANT METALS, OR APPROVED EQUIVALENT, EXCEPT AS NOTED.
 - CHAIN LINK FABRIC: 2" 9 GAUGE VINYL COATED AND BONDED
 - GATE & MESH COLOR: BLACK
 - GATE MANUFACTURER: MERCHANT METALS, WEBSITE: [HTTPS://WWW.MERCHANTSMETALS.COM/](https://www.merchantsmetals.com/)
 - REMOVABLE MULLION: VON DUPRIN 9852 FOR EXTERIOR USE, OR APPROVED EQUIVALENT
 - OPERABLE PARTS OF DOOR AND GATE HARDWARE ARE CENTERED BETWEEN 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. 11B-404.2.7
 - SUBMIT SHOP DRAWINGS & CORRELATING FIELD MEASUREMENTS FOR REVIEW AND ACCEPTANCE, DOCUMENTING ANY STEP DOWNS. TOP OF FENCE TO BE LEVEL AND STEP DOWN AS NEEDED.

2 CHAIN LINK GATE - TYPE 1
L4.04 3/4" = 1'-0"

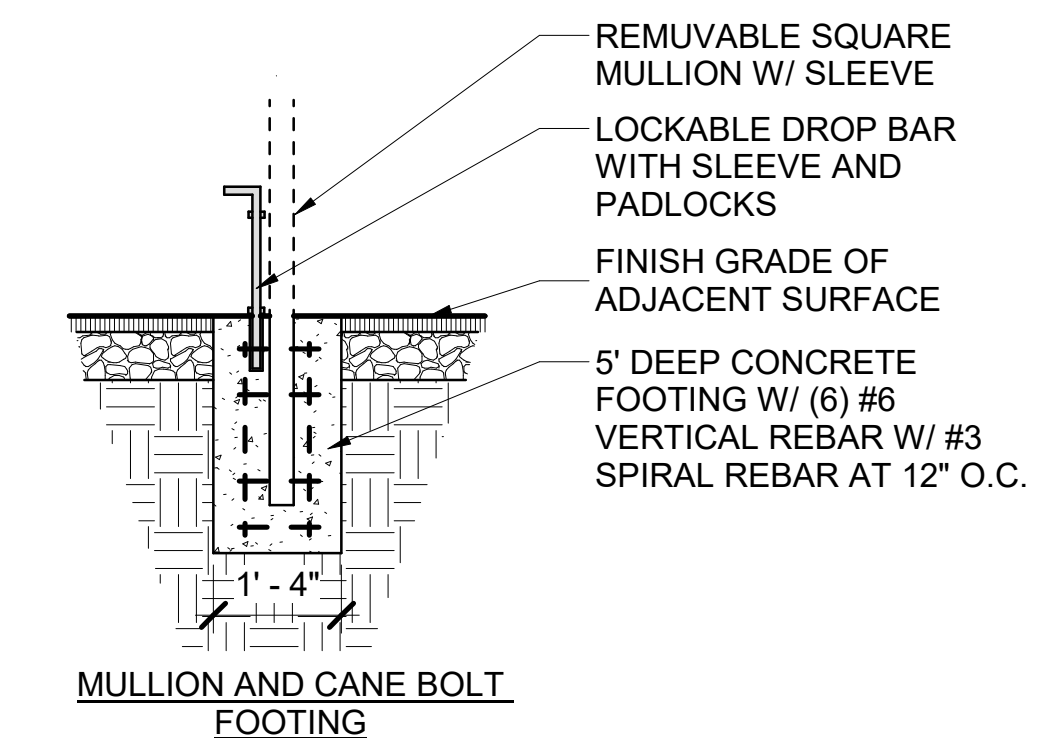


- NOTES:
- MESH SIZE 2" DIAMOND, 11 GAUGE GALVANIZED
 - GATE & MESH COLOR: BLACK
 - GATE MANUFACTURER: MERCHANT METALS, WEBSITE: [HTTPS://WWW.MERCHANTSMETALS.COM/](https://www.merchantsmetals.com/)
 - OPERABLE PARTS OF DOOR AND GATE HARDWARE ARE CENTERED BETWEEN 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. 11B-404.2.7
 - SUBMIT SHOP DRAWINGS & CORRELATING FIELD MEASUREMENTS FOR REVIEW AND ACCEPTANCE, DOCUMENTING ANY STEP DOWNS. TOP OF FENCE TO BE LEVEL AND STEP DOWN AS NEEDED.

4 CHAIN LINK GATE - TYPE 2
L4.04 3/4" = 1'-0"



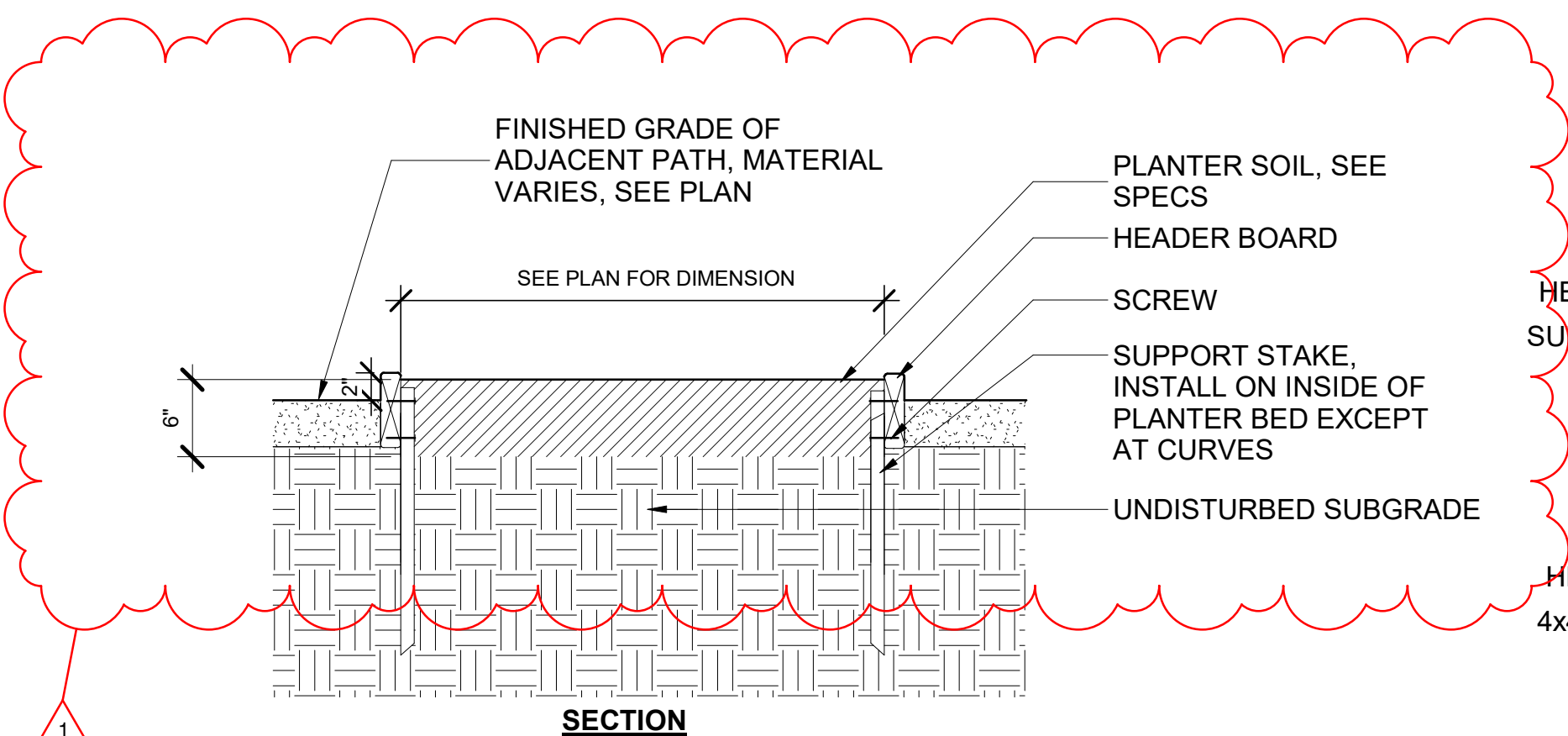
GATE FOOTING



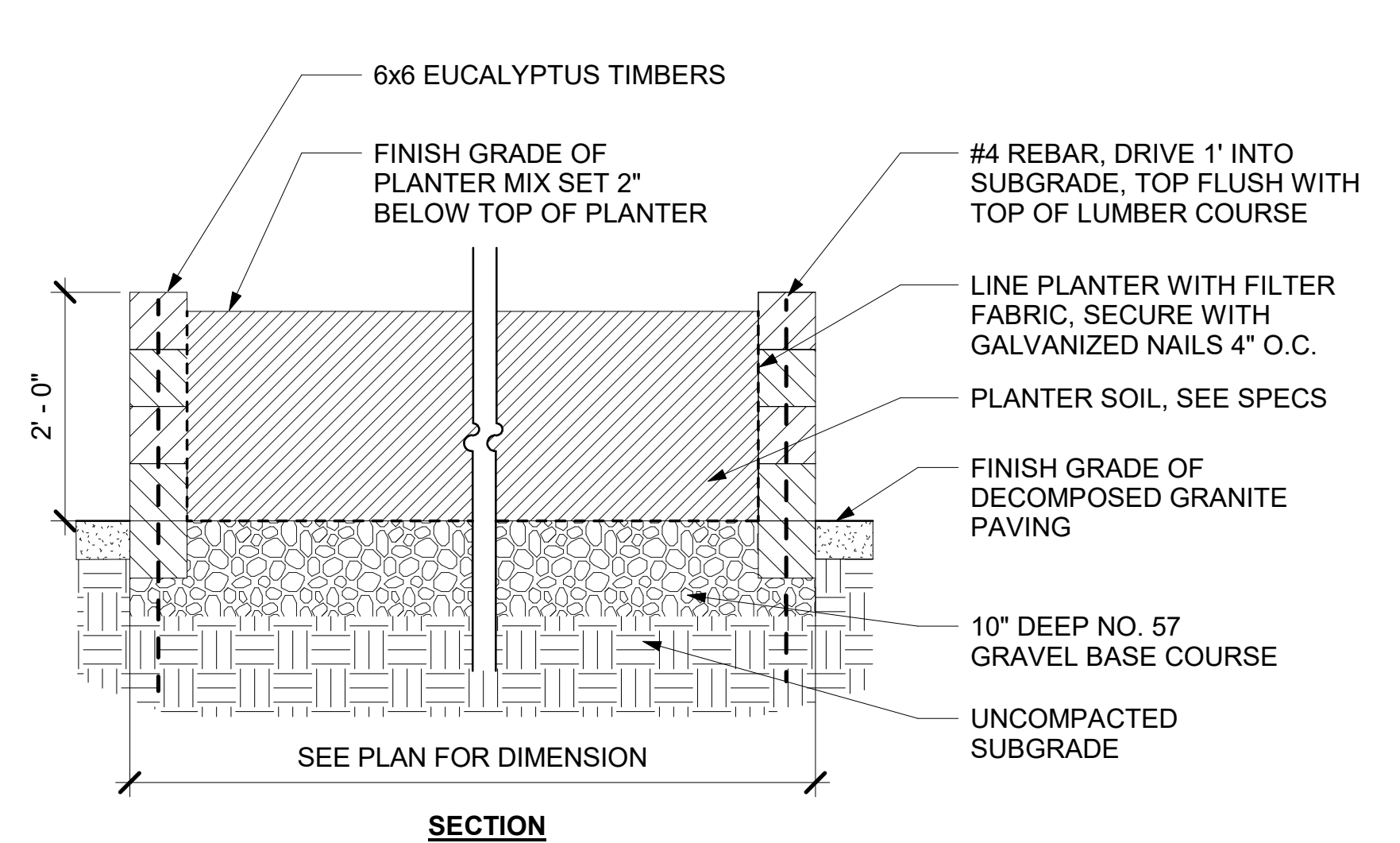
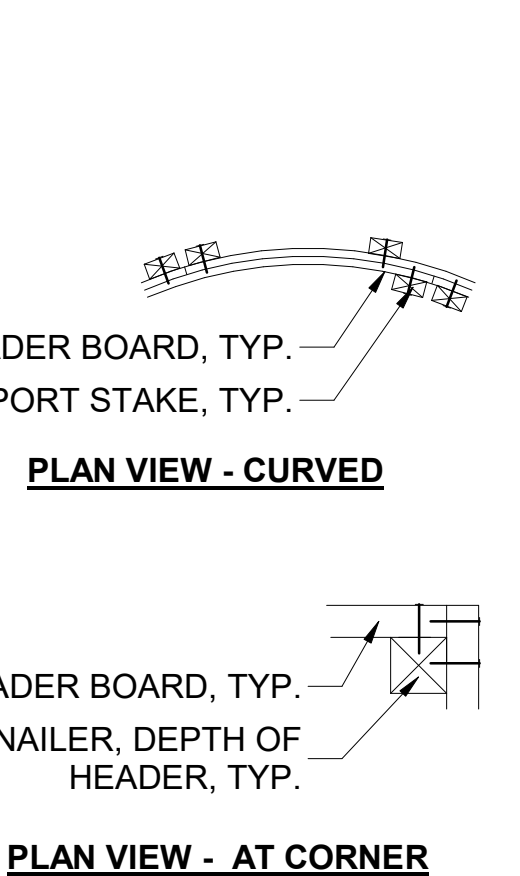
MULLION AND CANE BOLT FOOTING

5 X GATE FOOTINGS
L4.04 1/2" = 1'-0"

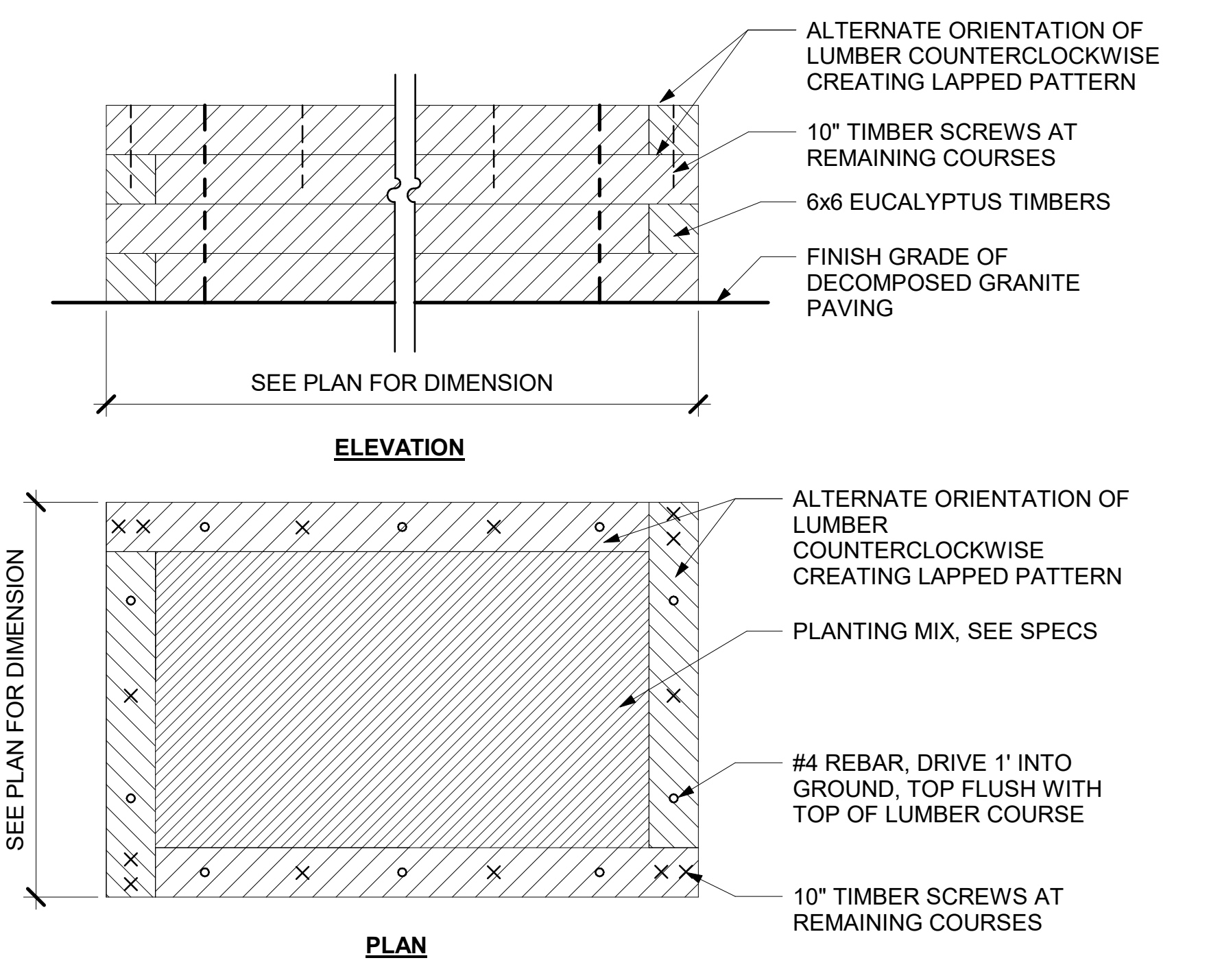
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- NOTES:**
- PLANTER SIZE SCHEDULE:
 - A. SIZE PA: 4'-4" WIDE, LENGTHS IN 6" INTERVALS, SEE PLAN
 - B. SIZE PB: 3'-0" WIDE, LENGTHS IN 6" INTERVALS, SEE PLAN
 - C. SIZE PC: 7'-0" X 8'-0"
 - STRAIGHT SECTIONS: USE 2" X 6" RECYCLED REDWOOD, USE ONE CONTINUOUS BOARD WITH NO BREAKS FOR EACH SIDE
 - CURVED SECTIONS: USE 2 - 1" X 6" RECYCLED REDWOOD
 - SUPPORT STAKE: 1" X 2" X 18" REDWOOD @ 2 FT O.C.
 - AT JOINTS USE 2 SUPPORT STAKES
 - USE GALVANIZED DECK SCREWS, 2 PER SUPPORT STAKE AND 2 AT CORNERS



- NOTES:**
- ALL LOGS TO BE 6X6 EUCALYPTUS MILLED TO LENGTH AND PREDRILLED BY MANUFACTURER
 - MANUFACTURER: GREEN WASTE RECYCLE YARD, RICHMOND, CA, 510-527-8733, WWW.GREENWASTERECYCLEYARD.COM



1 WOOD PLANTER EDGING, IN GROUND
L4.08 1" = 1'-0"

2 WOOD PLANTER, RAISED
L4.08 3/4" = 1'-0"

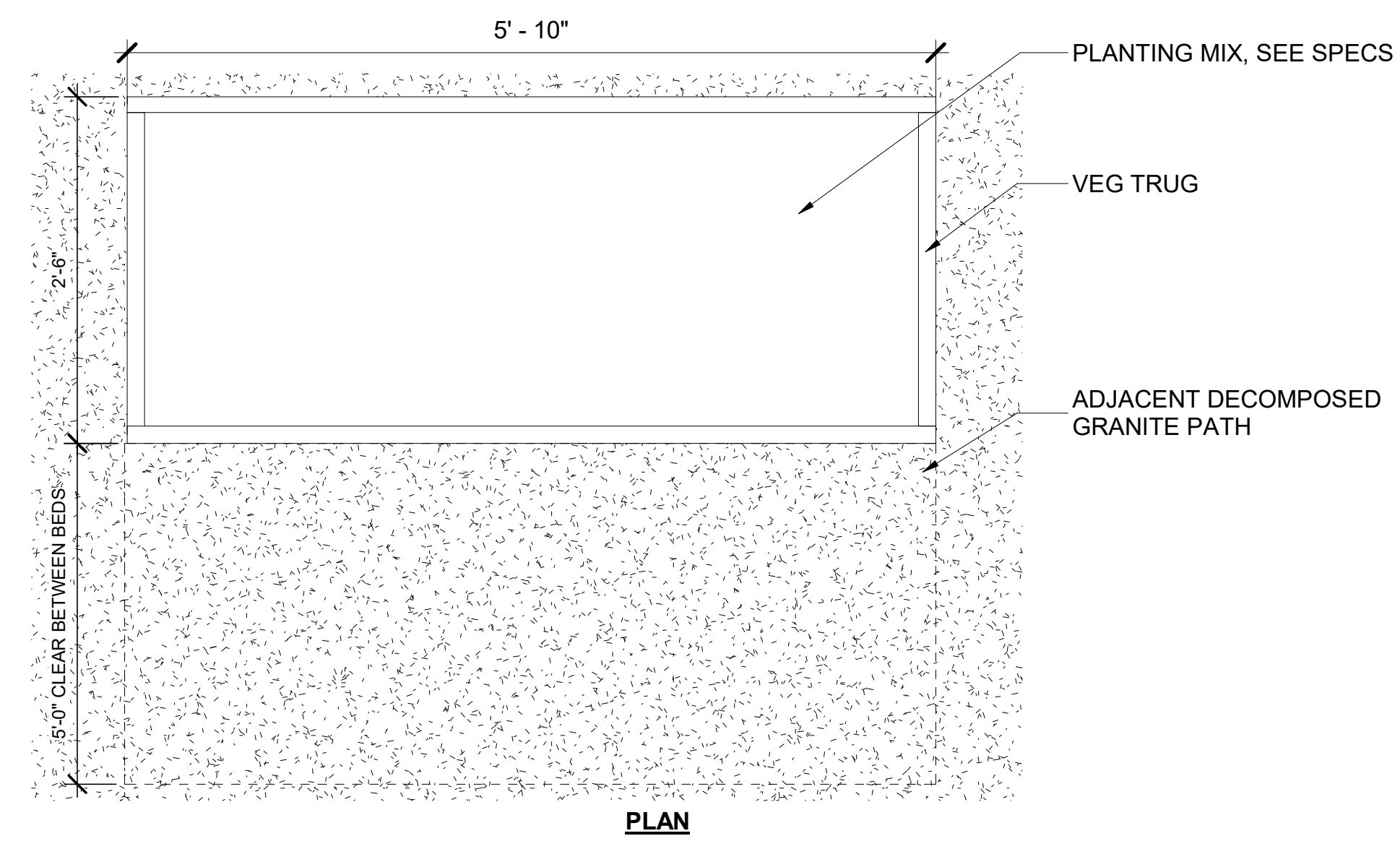


ACCESSIBLE PLANTER



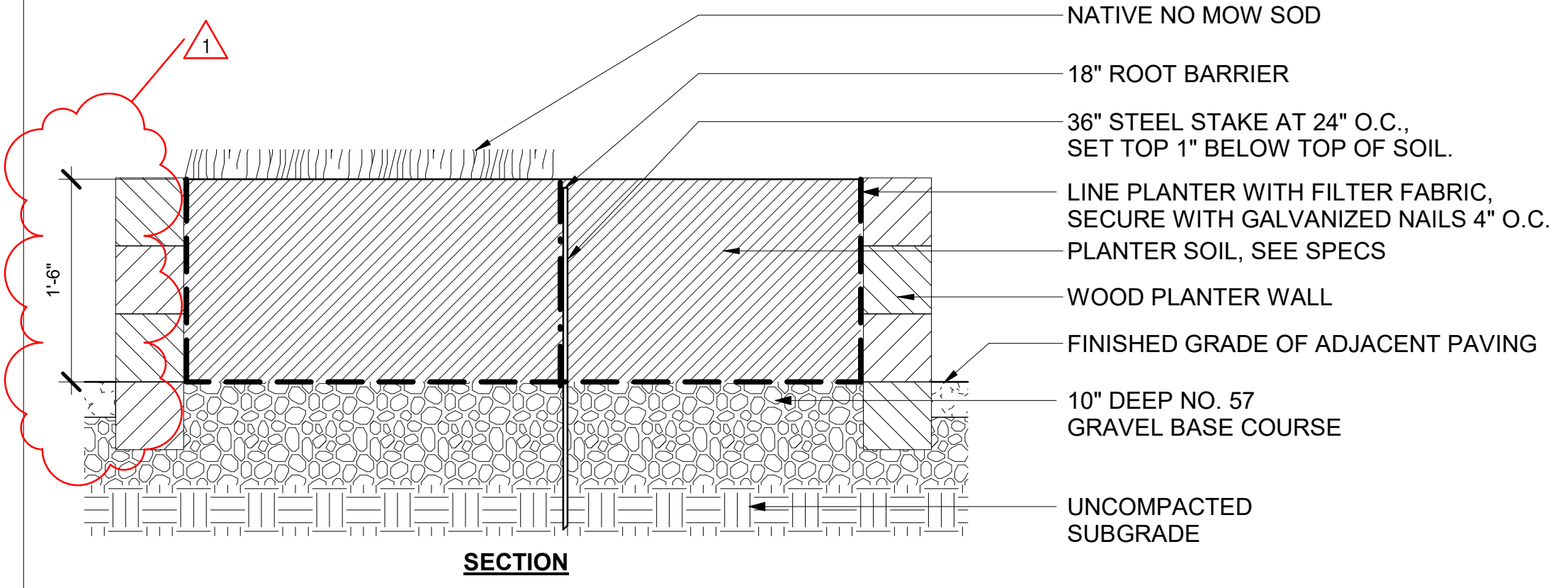
ACCESSIBLE PLANTER W/ COLD FRAME

- NOTES:**
- ACCESSIBLE PLANTER TO BE CLASSIC VEG TRUG. SIZE: MEDIUM, COLOR, NATURAL
 - ACCESSIBLE PLANTER WITH COLD FRAME TO BE CLASSIC COLD FRAME ADDED FITTED TO TOP OF CLASSIC VEG TRUG.
 - MANUFACTURER: VEGTRUG USA INC. WEBSITE: WWW.VEGTRUG.COM/US, PHONE: 1(888) 908-2008
 - SURFACE MOUNT PLANTERS USING EARTH ANCHOR MOUNTING SYSTEM, DETAIL 10/L4.12

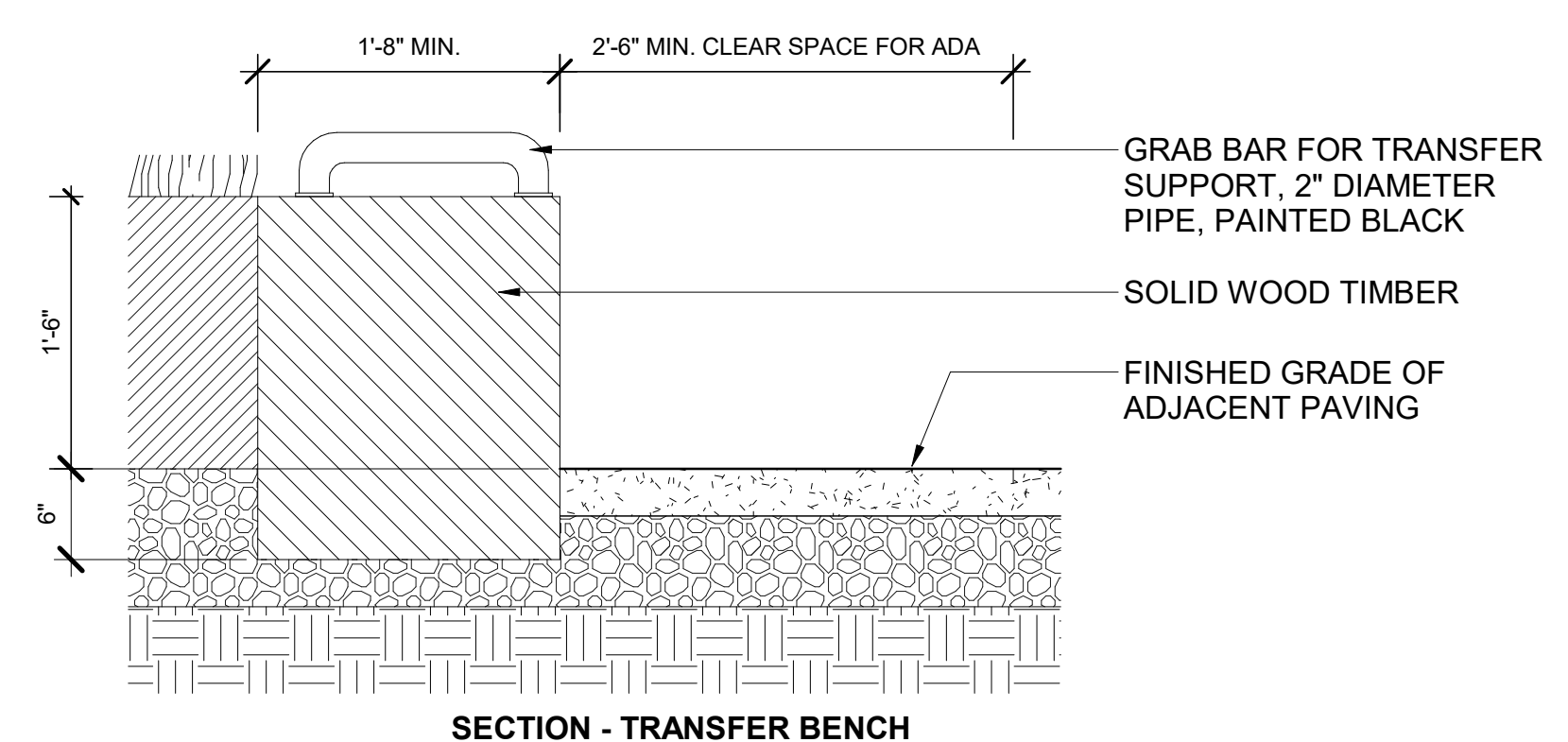


PLAN

3 ACCESSIBLE RAISED PLANTING BED AND COLD FRAME
L4.08 1" = 1'-0"



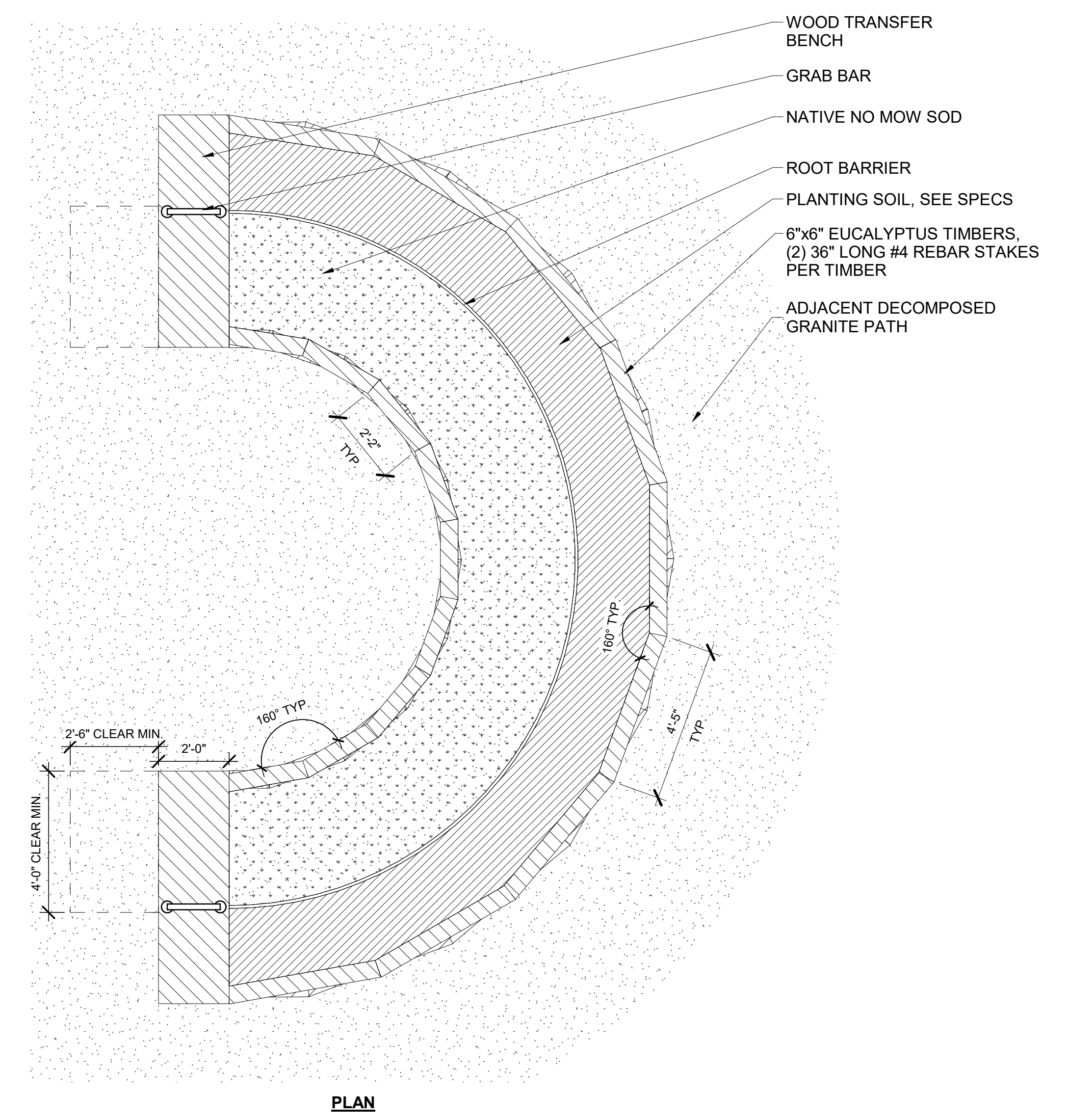
- NOTES:**
- SUPPORT STAKE: 3/8" x 1-1/2" x 36" STEEL FLAT NAIL STAKE.
 - TIMBER TO BE EUCALYPTUS, MILLED, MITERED, AND PREDRILLED BY MANUFACTURER
 - MANUFACTURER: GREEN WASTE RECYCLE YARD, RICHMOND, CA, 510-527-8733, WWW.GREENWASTERECYCLEYARD.COM



SECTION - TRANSFER BENCH

4 CURVED ACCESSIBLE RAISED PLANTING BED
L4.08 1" = 1'-0"

5 CURVED ACCESSIBLE RAISED PLANTING BED LAYOUT
L4.08 3/8" = 1'-0"



PLAN



Santa Fe Trackbed to Park Conversion Project
Remediation, Demolition and Perin
Berkeley, Cancing

PRWPK2102

City of Berkeley
2180 MILVIA STREET, 3RD FLOOR
BERKELEY, CA 94704

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SPEC NO. 26-11757-C
PLAN NO. 8288
FILE NO. 406-222

REVISION		
NUMBER	DATE	DESCRIPTION
	10/17/2025	PERMIT RESUBMITTAL 1
	4/1/2026	PERMIT RESUBMITTAL 2/BID SET
1	6/3/2026	BID ADDENDUM 1

BID ADDENDUM 1
ISSUE: **6/3/2026**
DATE:

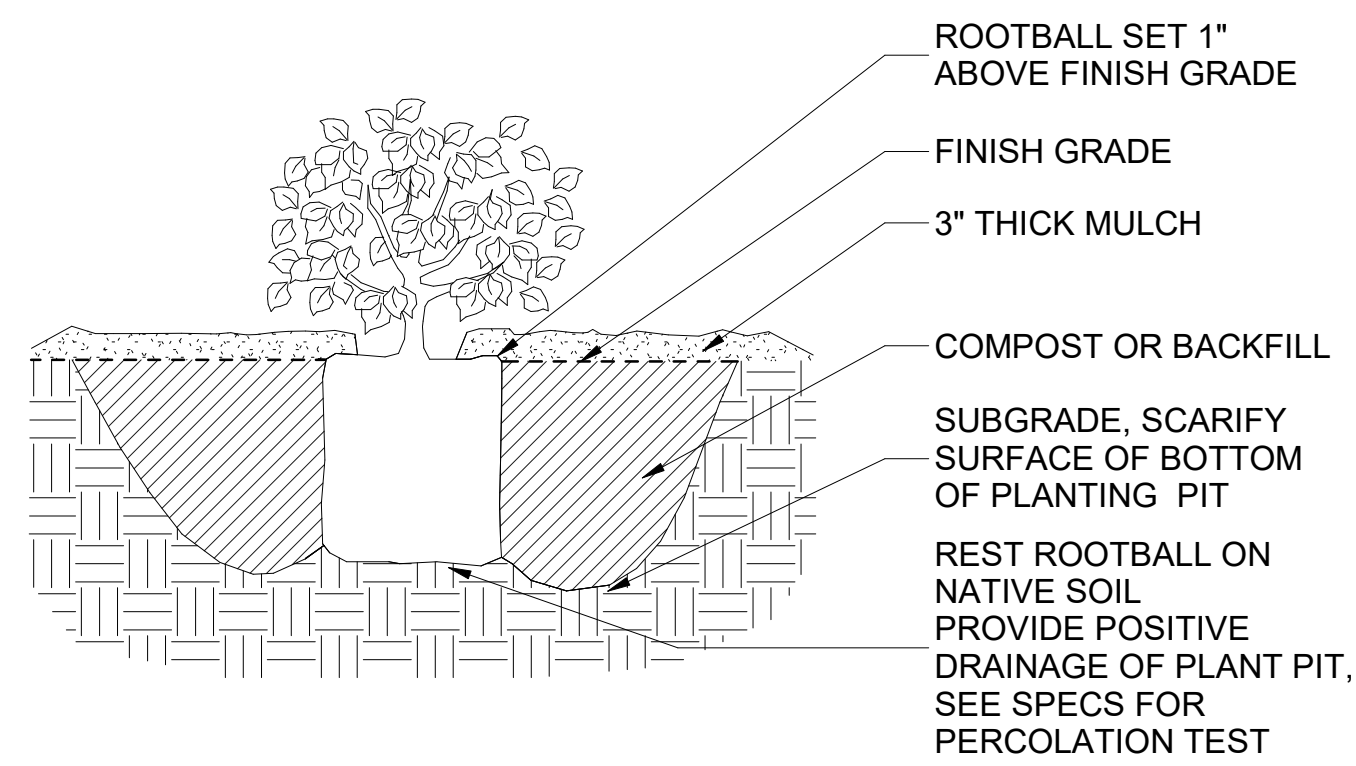
DETAILS - GARDEN PLANTERS

SHEET TITLE:

L4.08

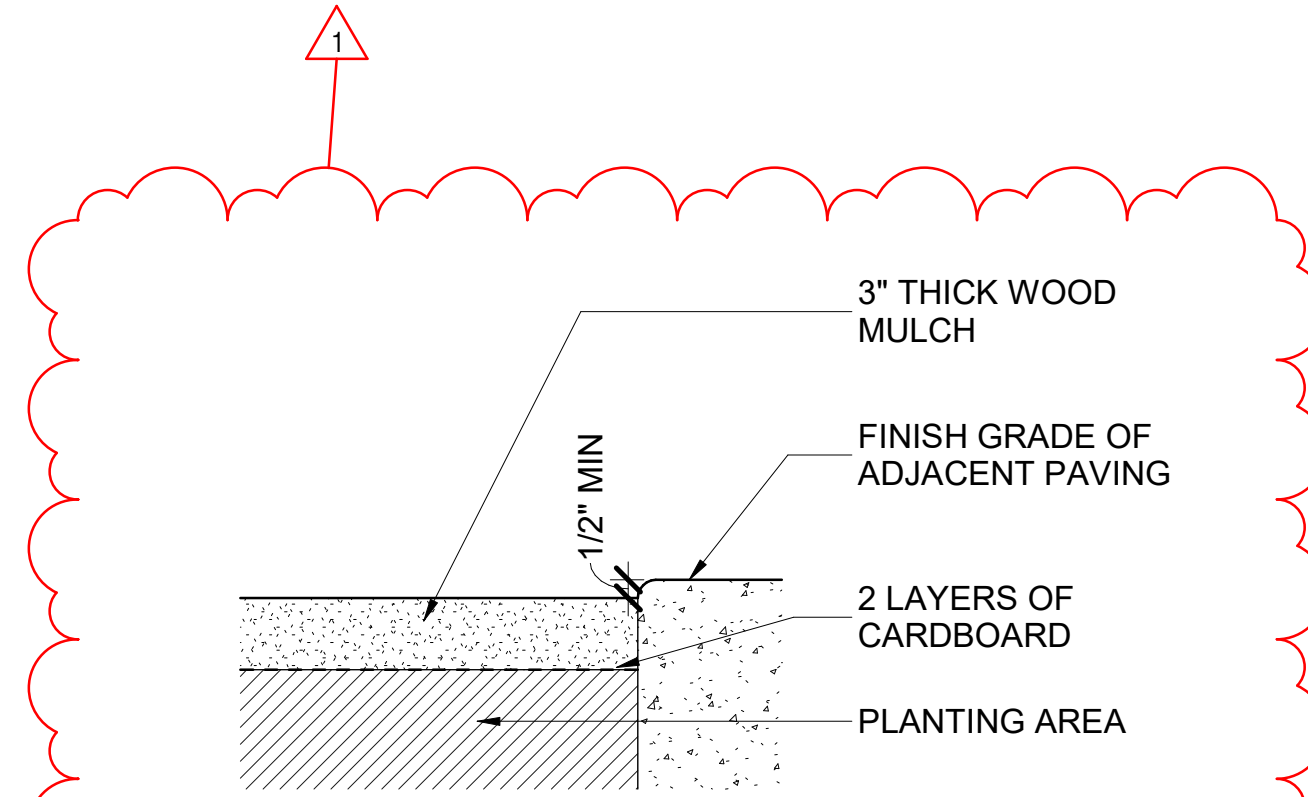
SHEET NUMBER:

PRWPK21012 - SANTA FE RIGHT OF WAY NEW PARK DEVELOPMENT



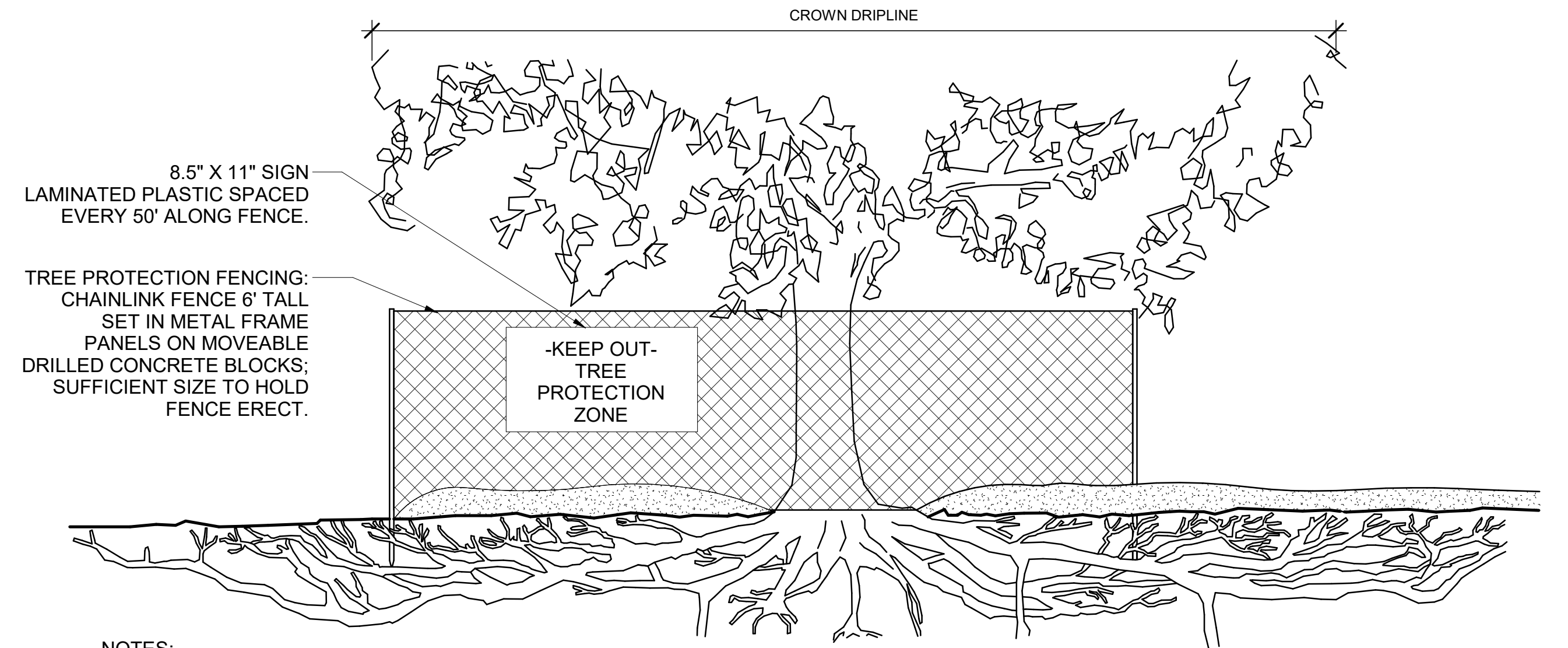
- NOTES:
- OVERLAP CARDBOARD PIECES - 8" MINIMUM.
 - SET DRIP IRRIGATION TUBING 4" BELOW FINISH GRADE OF SOIL, NOTE THIS DEPTH DOES NOT INCLUDE MULCH DEPTH, SEE IRRIGATION PLANS.

1 PLANTING SHRUB
L4.10 3/4" = 1'-0"



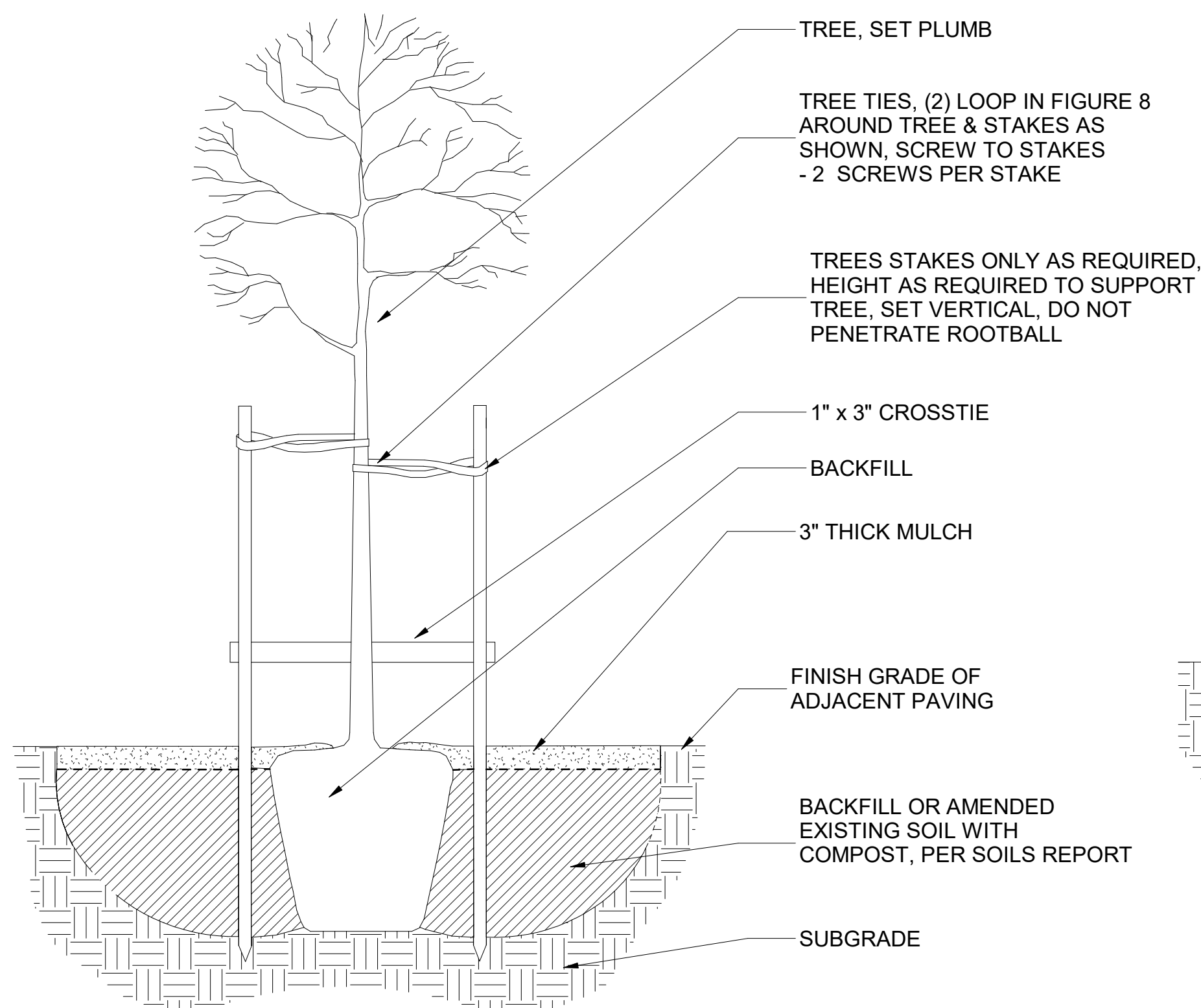
- NOTES:
- OVERLAP CARDBOARD PIECES - 8" MINIMUM.
 - SET DRIP IRRIGATION TUBING 4" BELOW FINISH GRADE OF SOIL, NOTE THIS DOES NOT INCLUDE MULCH DEPTH, SEE IRRIGATION PLANS.

2 WOOD MULCH AT PLANTING AREA
L4.10 1 1/2" = 1'-0"



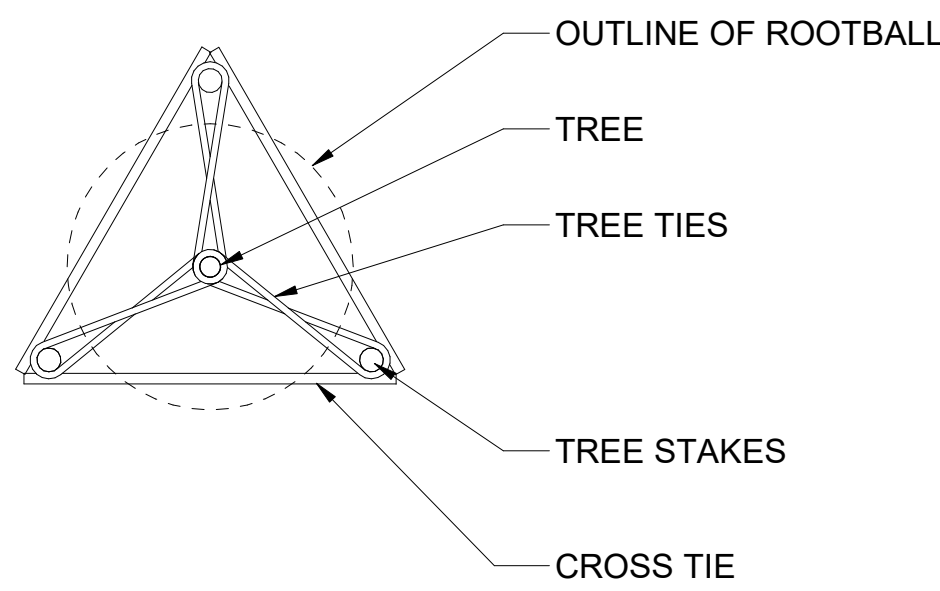
- NOTES:
- NO PRUNING OF EXISTING TREES EXCEPT BY APPROVED ARBORIST.
 - DO NOT OPERATE EQUIPMENT INSIDE TREE PROTECTION FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
 - SEE TREE PRESERVATION PLAN AND ARBORIST REPORT FOR FENCE ALIGNMENT, ROOT BUFFER ZONE AND ADDITIONAL PROTECTION MEASURES.

3 TREE PROTECTION FENCING
L4.10 1/4" = 1'-0"

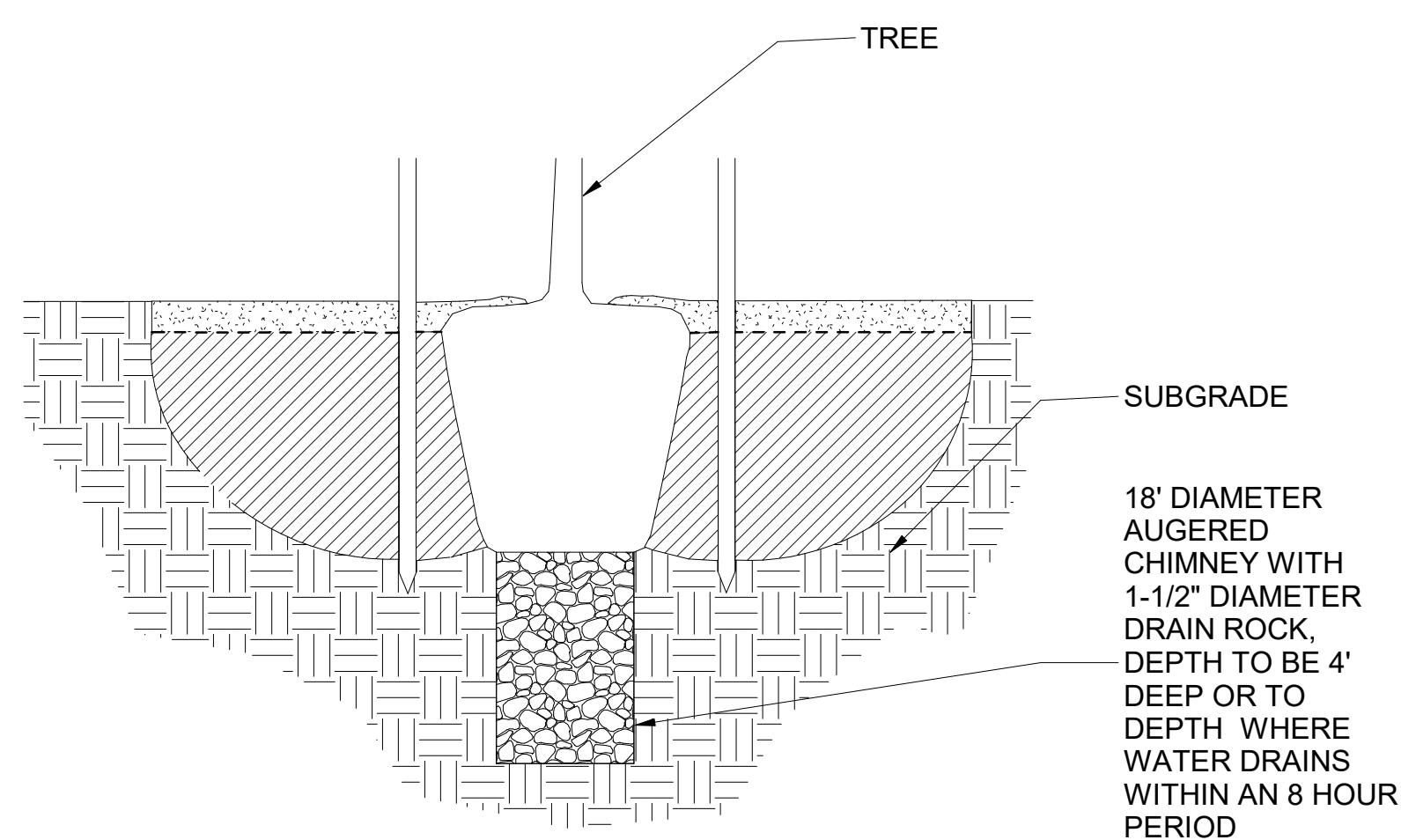


SECTION

4 PLANTING TREE PLANTING
L4.10 1/2" = 1'-0"

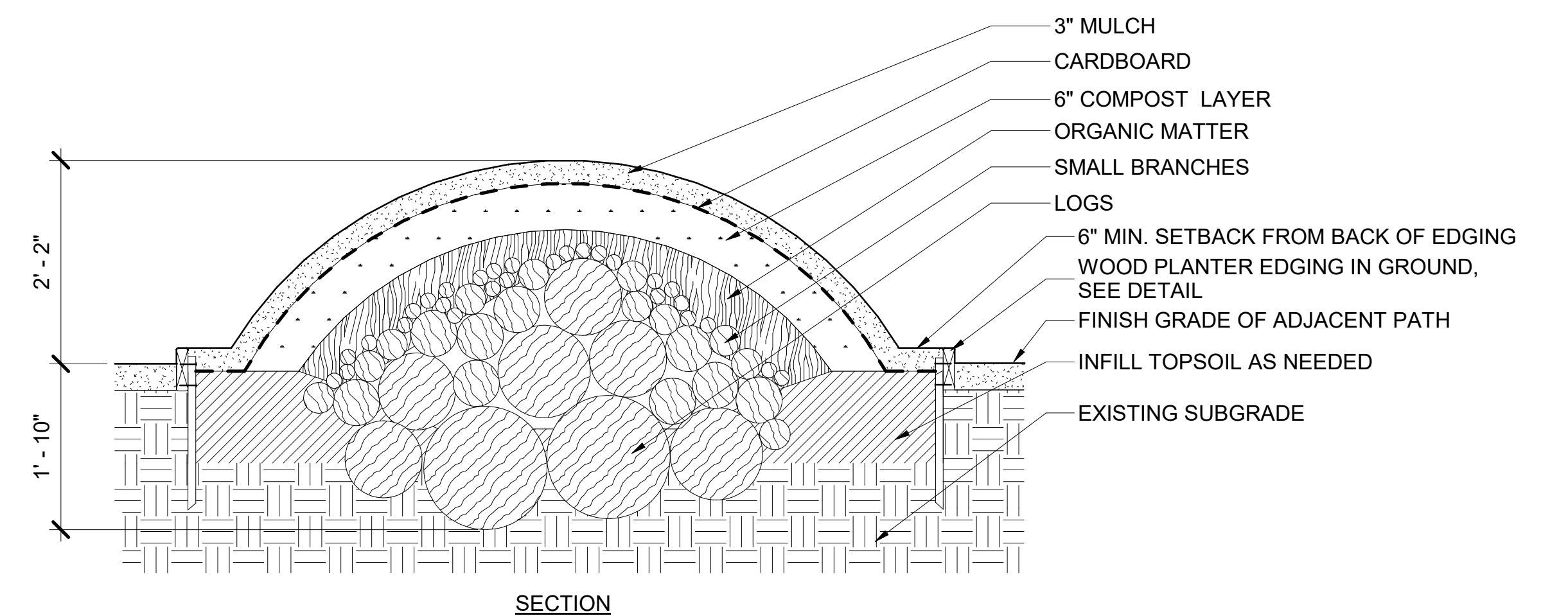


PLAN VIEW

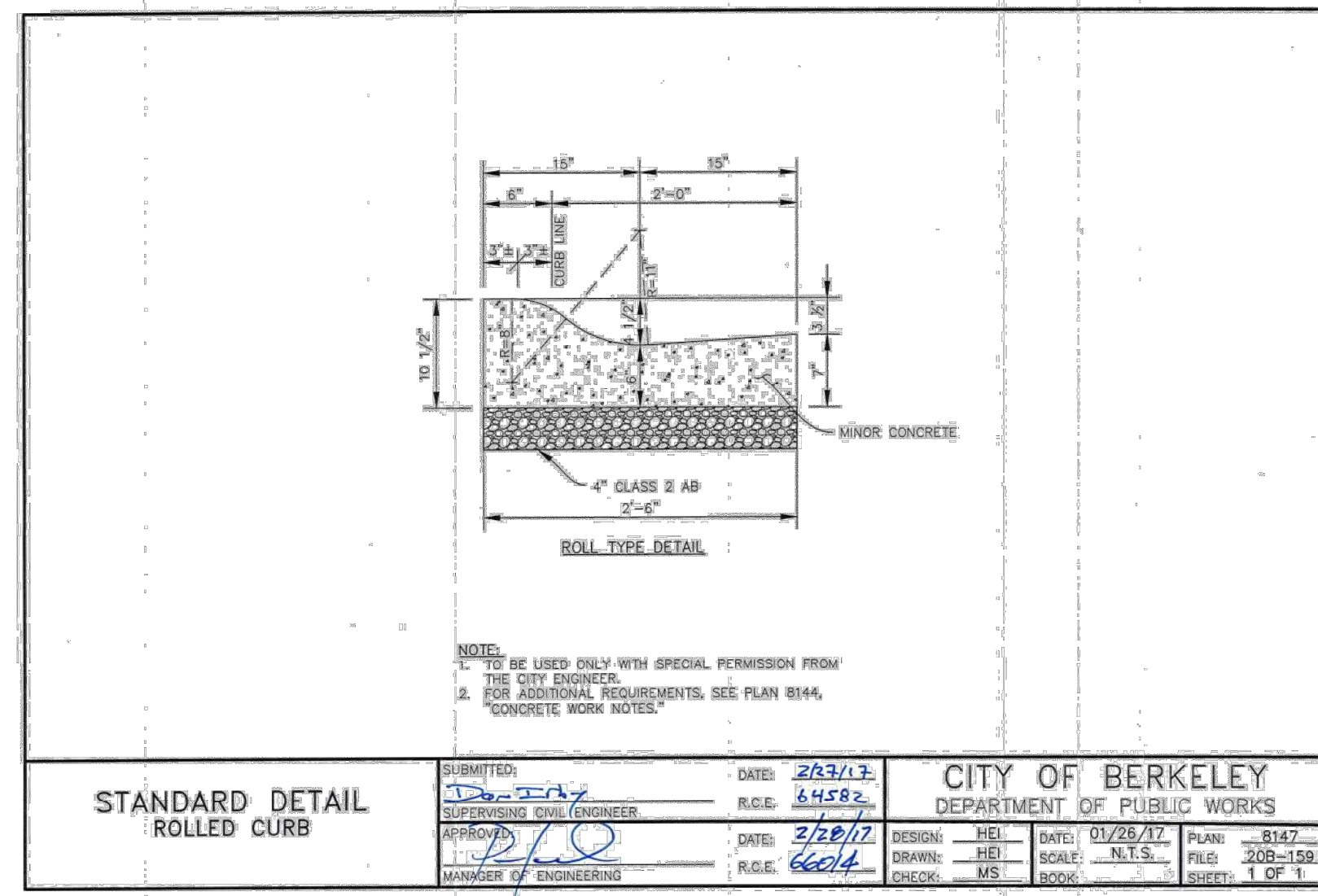


AT OAK TREES IN LAWN AREA OR TREES IN AREAS OF POOR DRAINAGE PROVIDE TREE DRAIN/CHIMNEY

5 HUGELKULTUR BED
L4.10 3/4" = 1'-0"

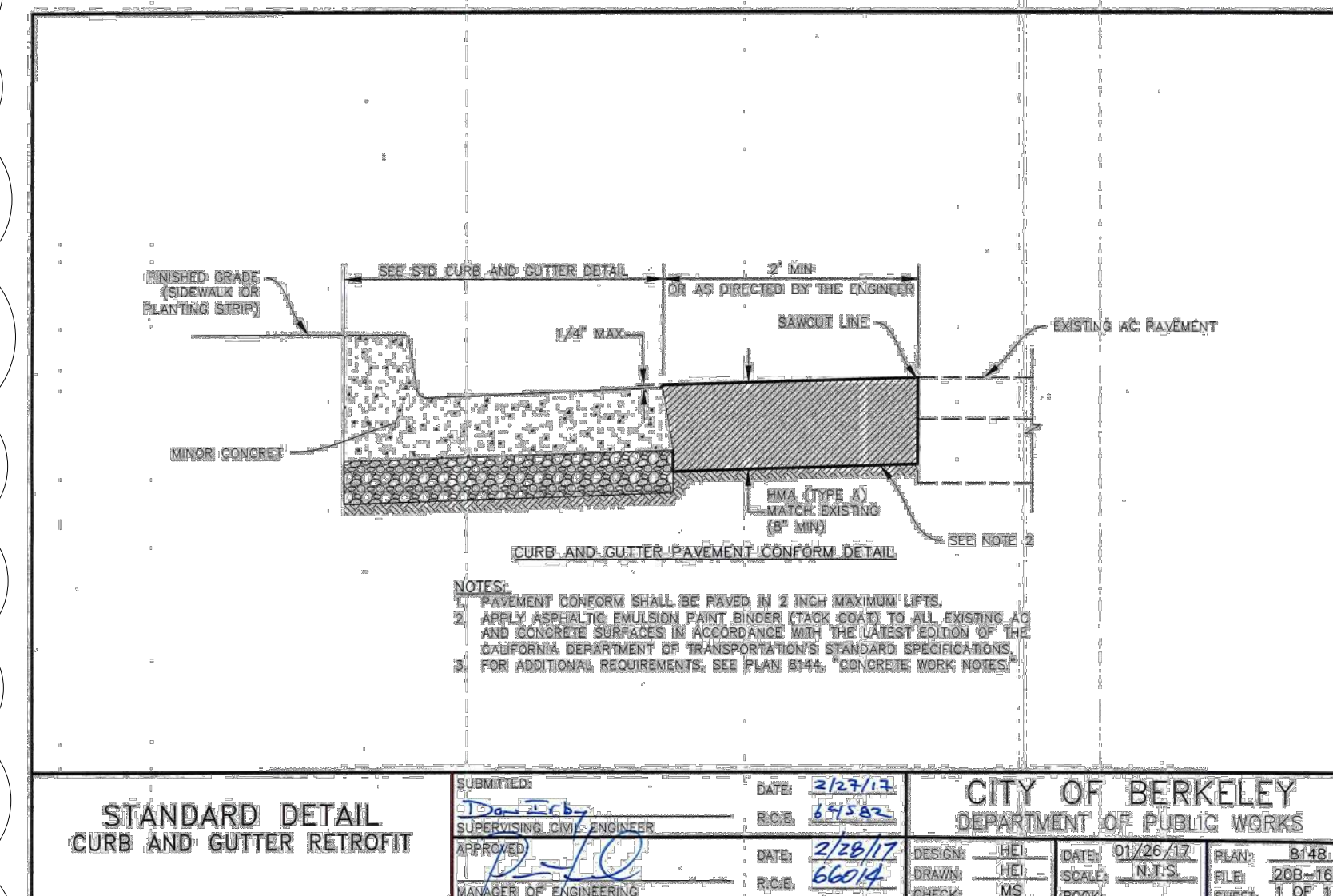


- NOTES:
- OVERLAP CARDBOARD PIECES - 8" MINIMUM.
 - ORGANIC MATTER TO BE: LEAVES, GRASS CLIPPINGS, UNFINISHED COMPOST
 - SMALL BRANCHES TO BE: SOFTWOODS AND SMALLER DIAMETER BRANCHES, 1/2"-6" DIAMETER.
 - LOGS TO BE: ROTTING AND FRESH, LARGER DIAMETER LOGS 6"-18" DIAMETER.
 - ALL WOOD TO BE RAW WOOD IN ITS NATURAL STATE, FREE OF PAINT AND FINISHES.



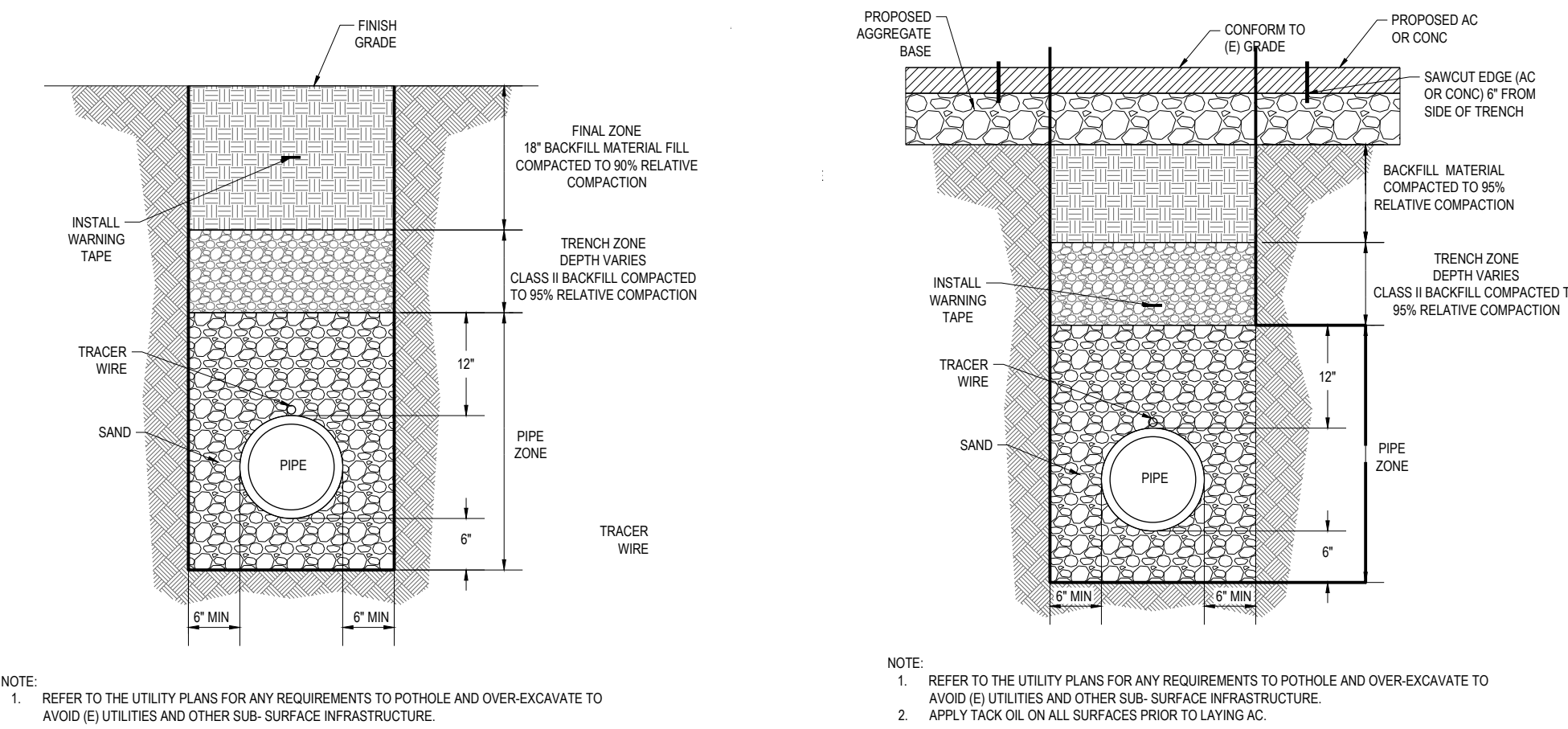
1 ROLLED CURB

SCALE: NTS



2 6" CURB AND GUTTER (RETROFIT)

SCALE: NTS

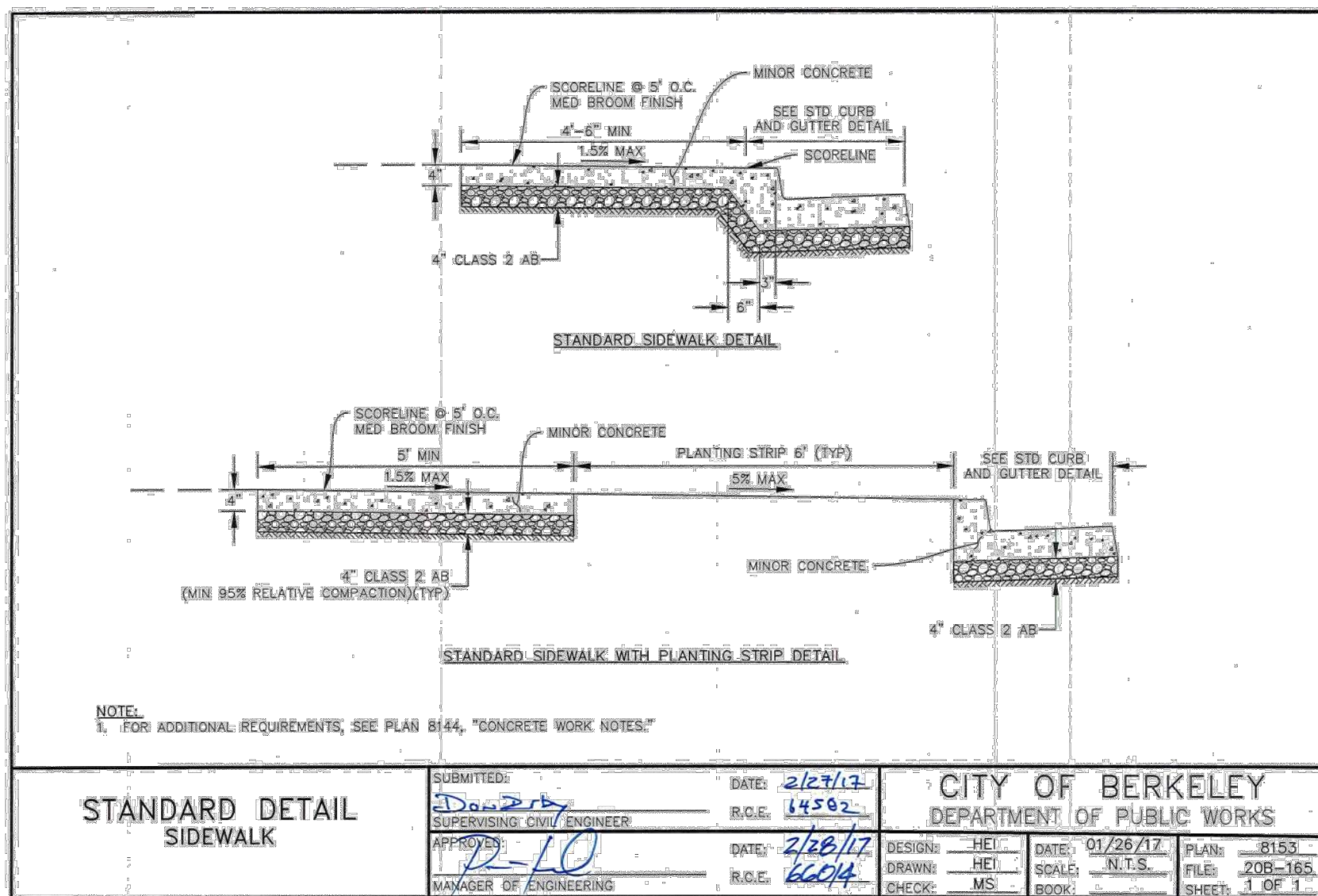


4 UTILITY TRENCH IN LANDSCAPE AREAS

SCALE: NTS

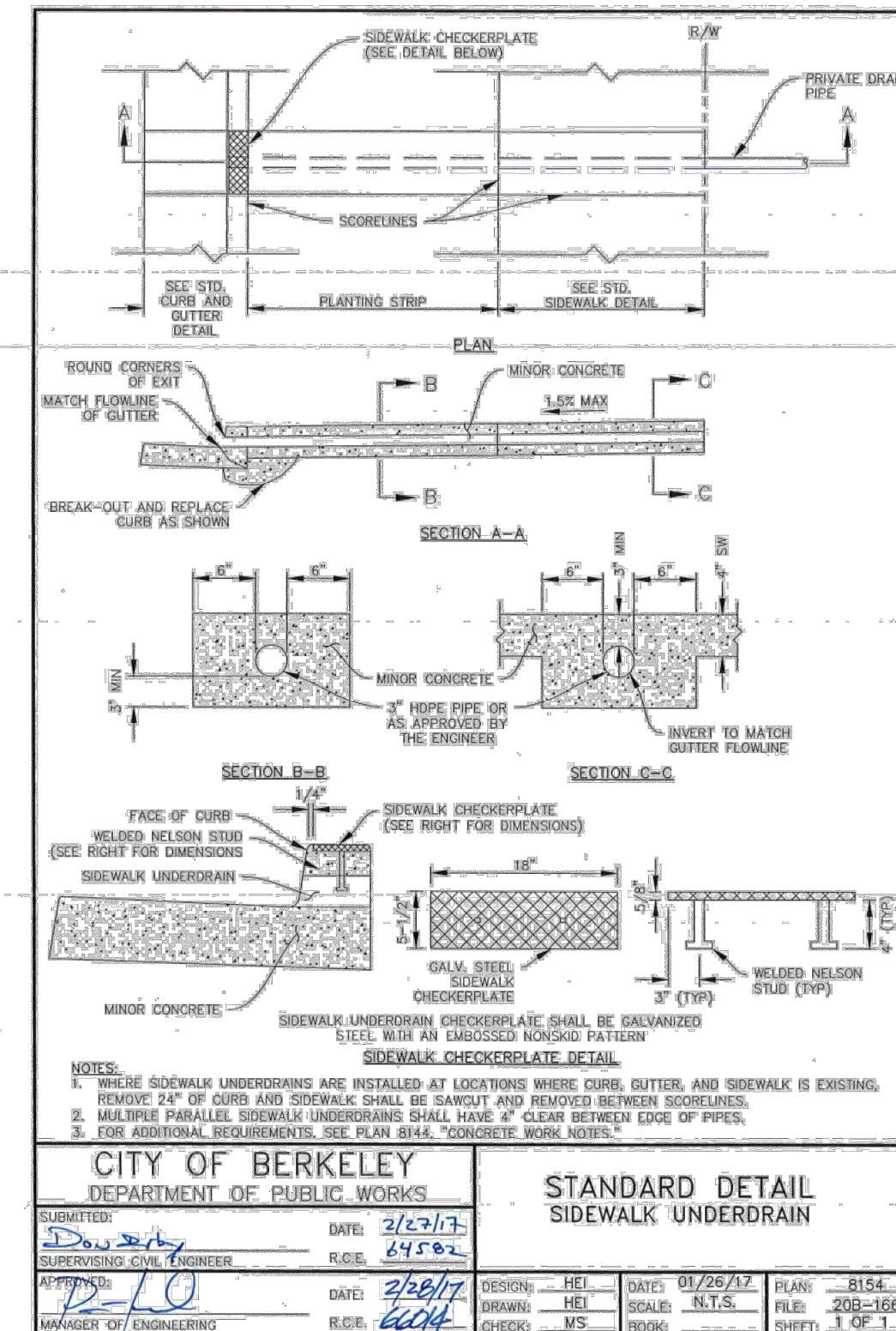
5 UTILITY TRENCH RESURFACING PAVED AREAS

SCALE: NTS



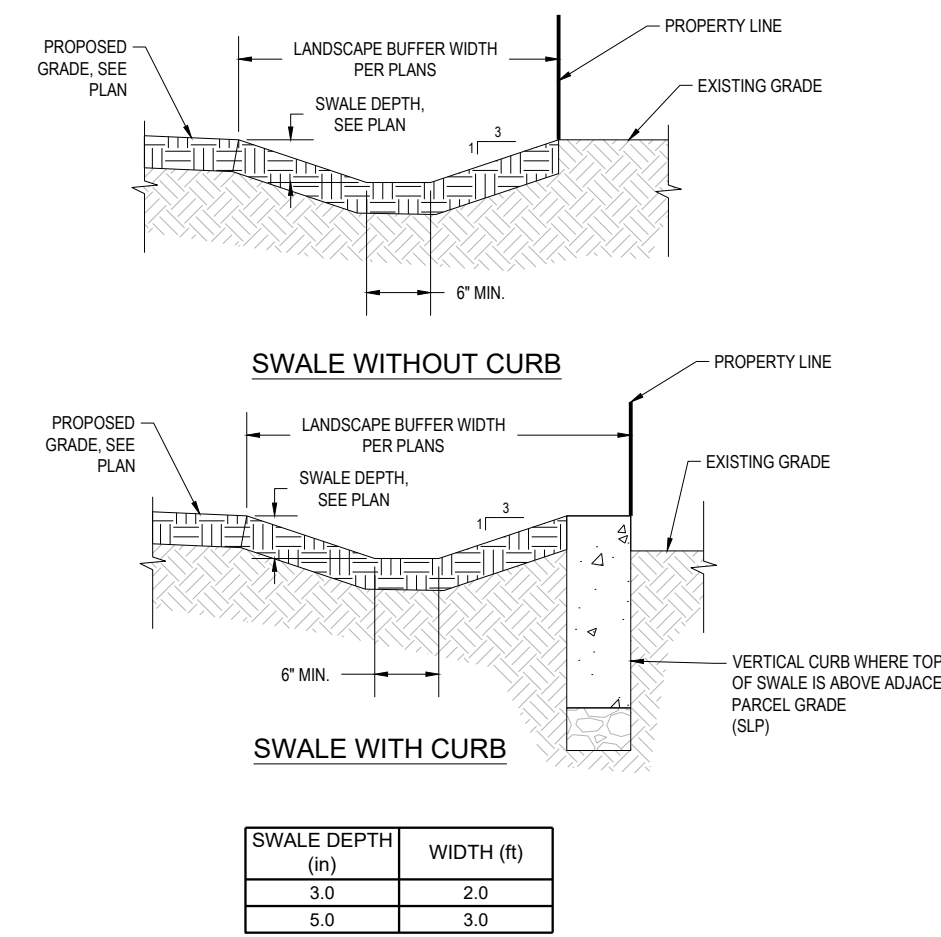
7 SIDEWALK PAVEMENT

SCALE: NTS



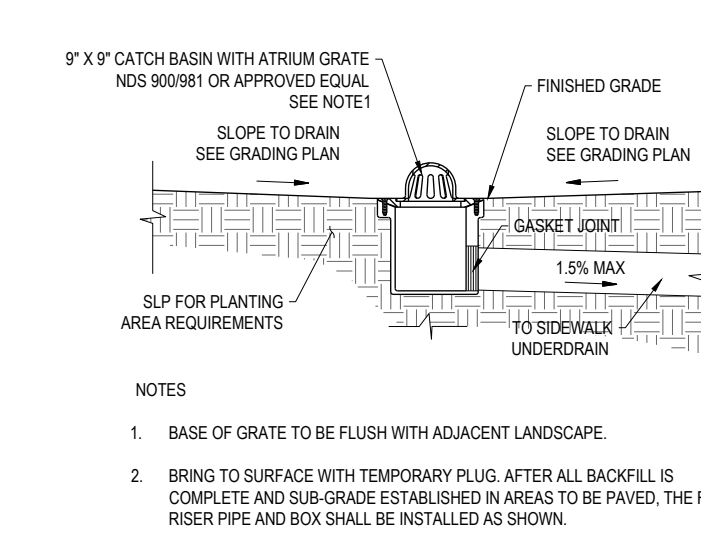
6 SIDEWALK UNDERDRAIN

SCALE: NTS



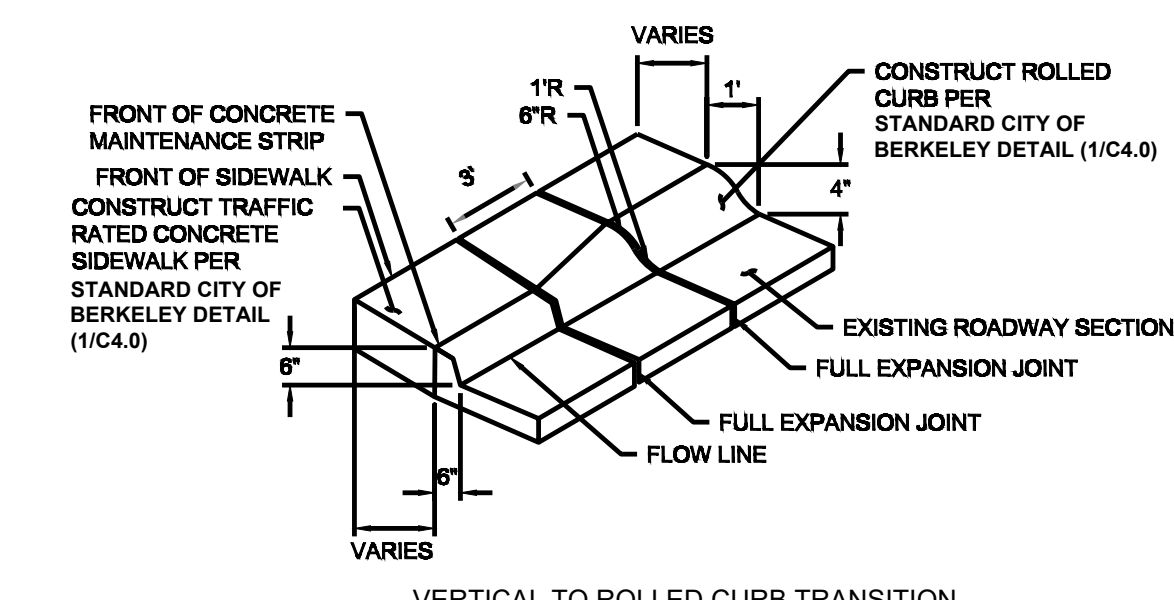
8 LANDSCAPE DRAINAGE SWALE

SCALE: NTS



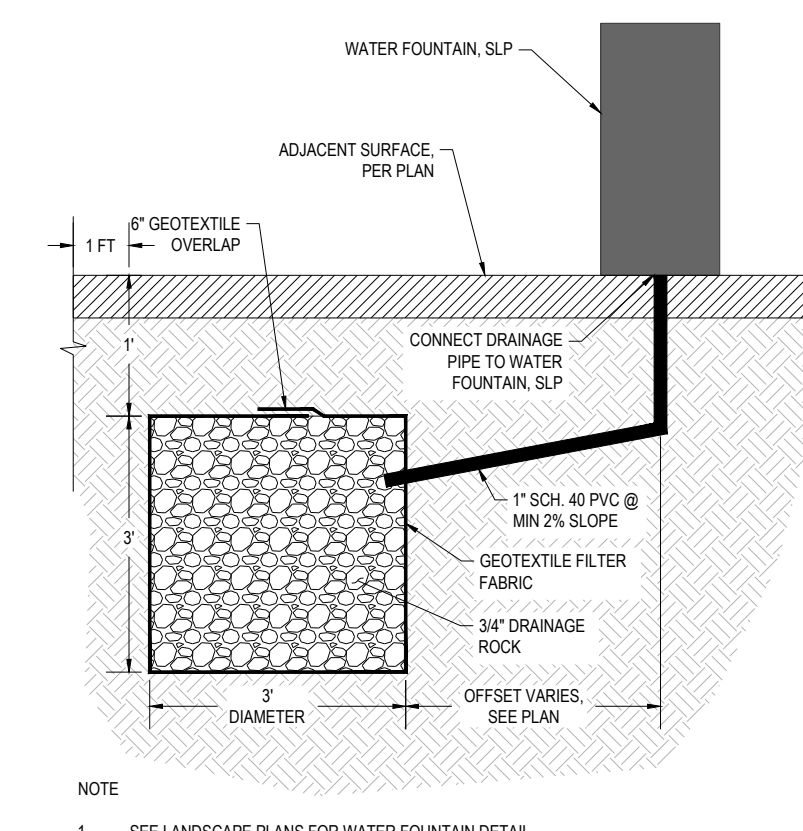
10 LANDSCAPE AREA DRAIN

SCALE: NTS



11 ROLLED CURB TRANSITION

SCALE: NTS



9 WATER FOUNTAIN DRYWELL

SCALE: NTS

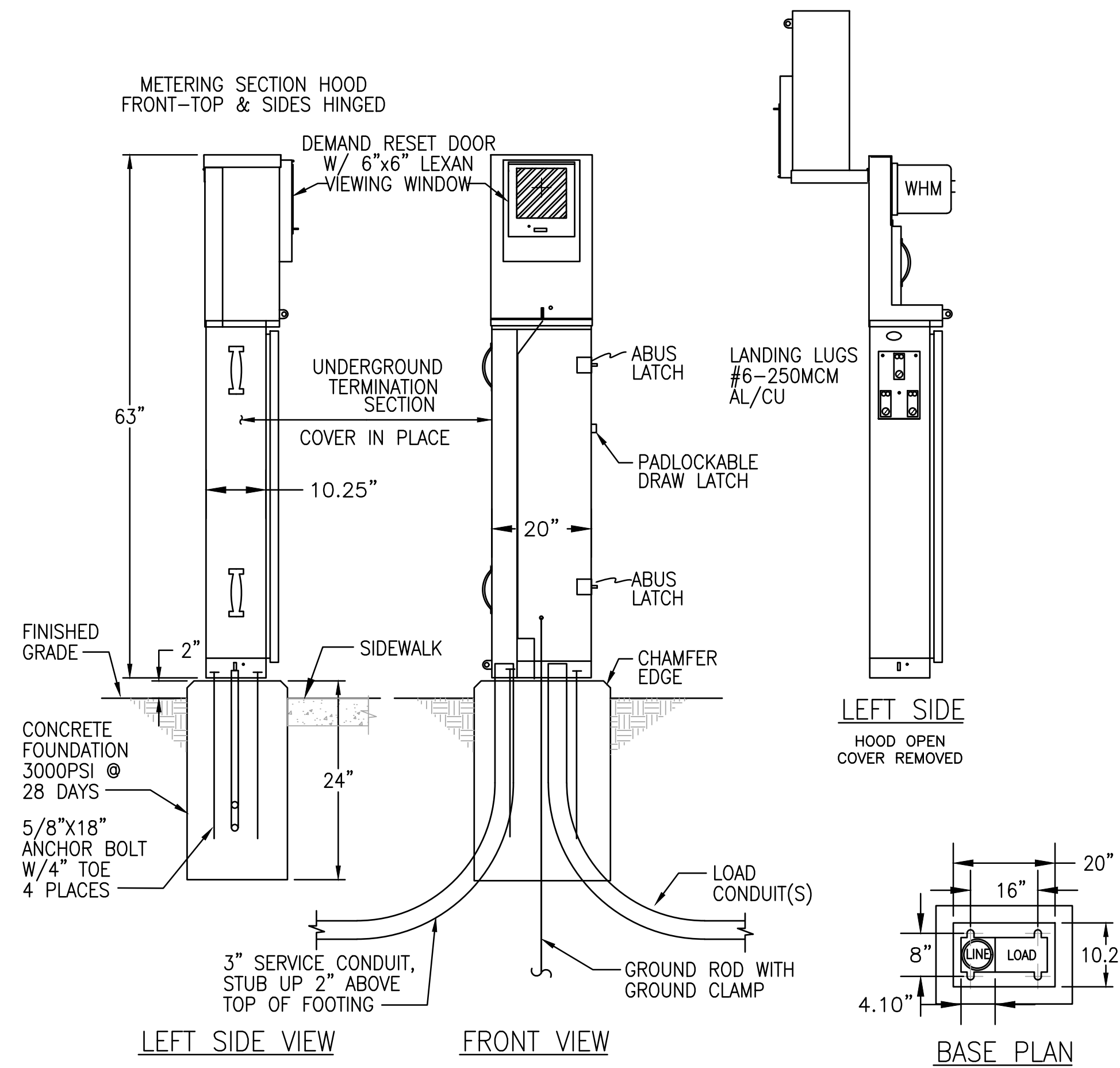
PERMIT SET

				Santa Fe Trackbed to Park Conversion Project Demolition and Perimeter Fencing Berkeley, CA	PRWPK2102	CITY OF BERKELEY 2180 MILVIA STREET, 3RD FLOOR BERKELEY, CA 94704	CIVIL ENGINEER: SHERWOOD DESIGN ENGINEERS 2548 MISSION ST SAN FRANCISCO, CA 94110 TEL: (415) 677-7300	ELECTRICAL ENGINEER: PEARCE SERVICES LLC 122 VINE STREET, SUITE 301 PASO ROBLES, CA 93446 TEL: (805) 467-2528	SPEC NO. 26-11757-C	PLAN NO. 8288	FILE NO. 406-222	REVISION			BID SET REMEDIATION SET ISSU#: 4/1/26 10/31/2025	DETAILS	C4.0
												<table border="1"> <thead> <tr> <th>NUMBER</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>10/17/2025</td> <td></td> <td>PERMIT RESUBMITTAL 1</td> </tr> <tr> <td>4/1/2026</td> <td></td> <td>PERMIT RESUBMITTAL 2 / BID SET</td> </tr> <tr> <td>6/3/2026</td> <td></td> <td>BID ADDENDUM 1</td> </tr> </tbody> </table>	NUMBER	DATE			
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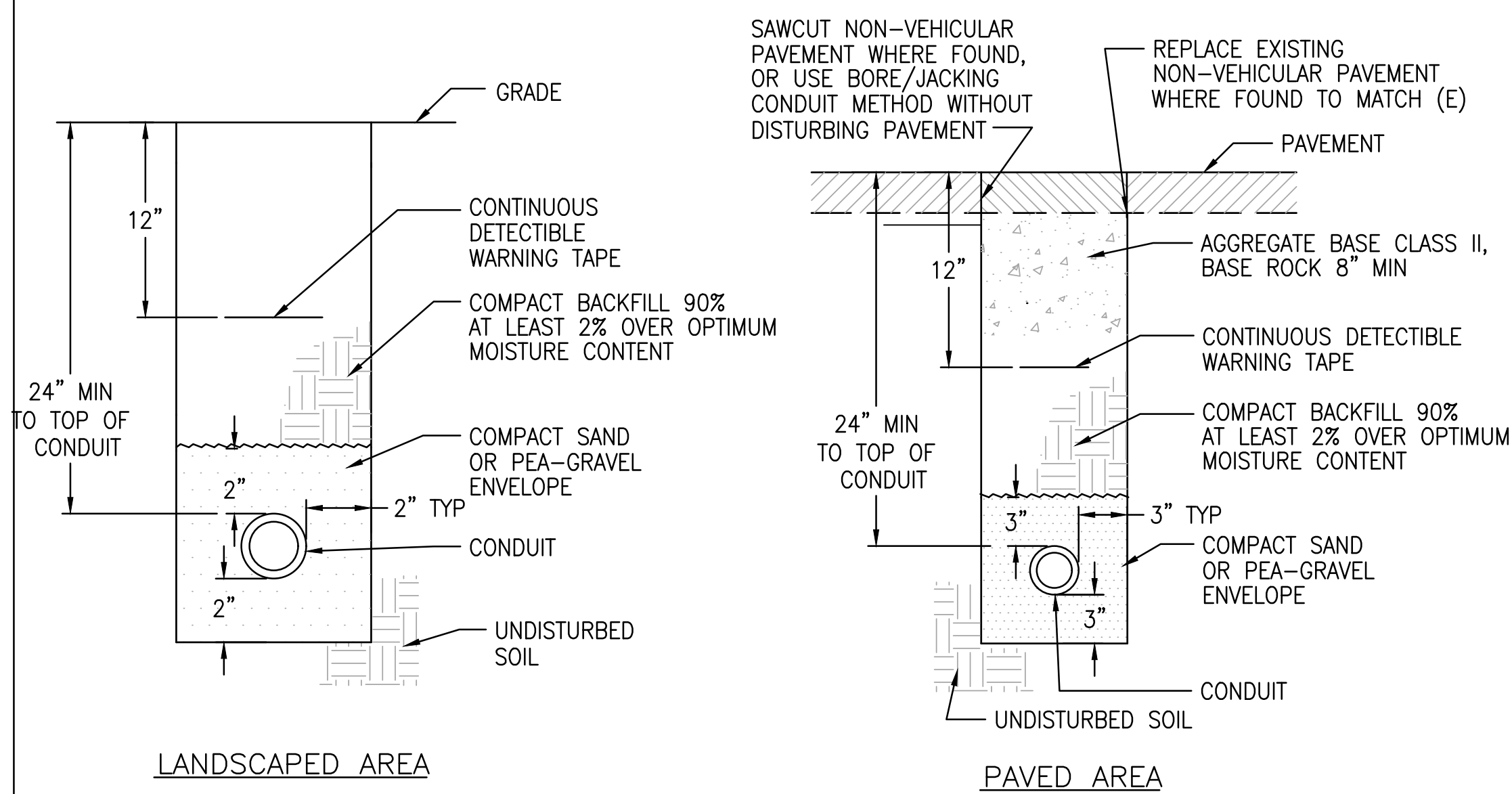
P:\2022\22-108_SantaFe_Row\03_Design\01_CAD\SheetSet\C5.0 DETAIL SHEET.dwg

ENCLOSURE CONSTRUCTION NOTES

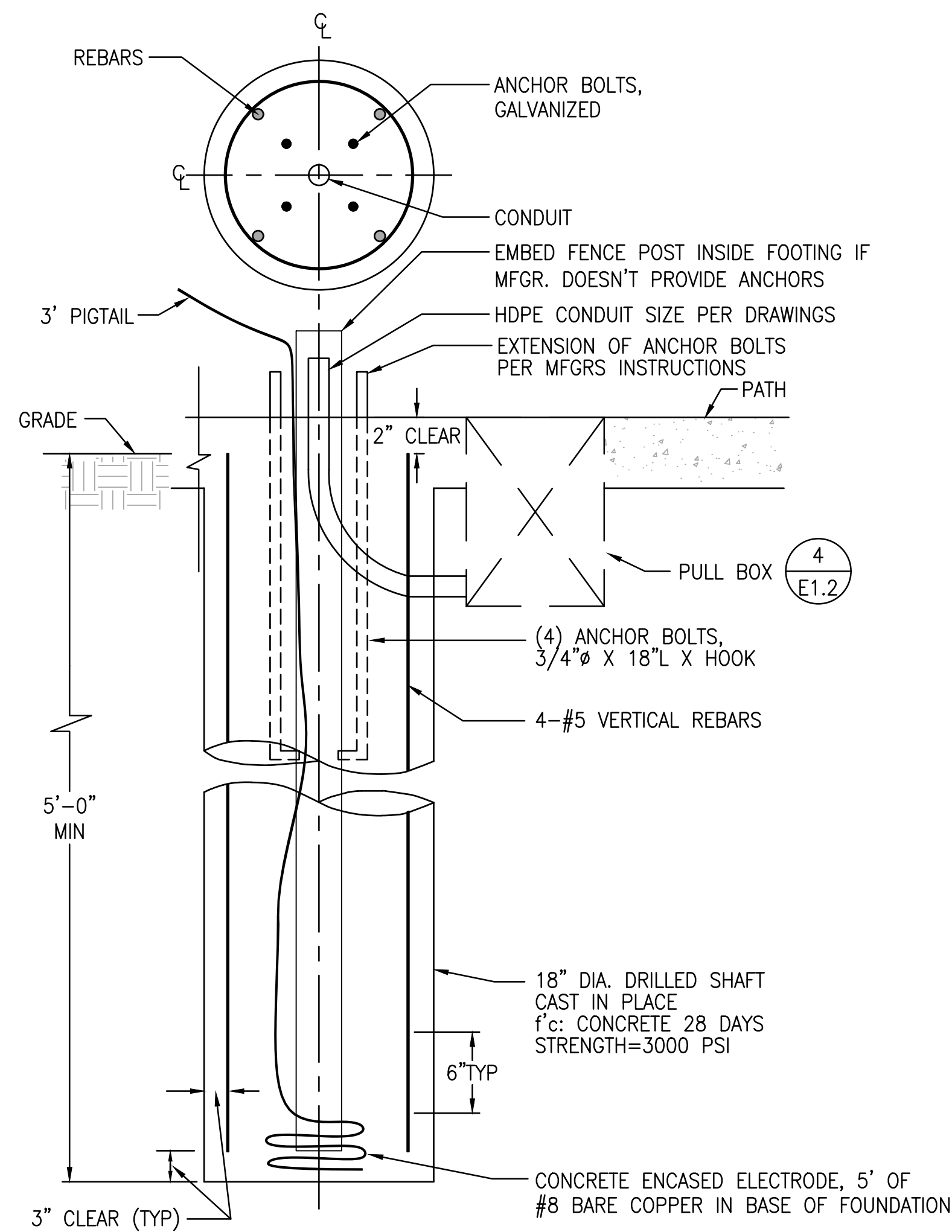
1. EXTERIOR, 1/8" ALUMINUM, AND INTERIOR 14 GA. COLD ROLLED STEEL ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
2. CONSTRUCTION WILL BE NEMA 3R, RAIN TIGHT.
3. ALL NUTS, BOLTS AND SCREWS WILL BE STAINLESS STEEL.
4. NUTS, BOLTS & SCREWS WILL NOT BE VISIBLE FROM OUTSIDE OF ENCLOSURE.
5. NAMEPLATES WILL BE PROVIDED AS REQUIRED.
6. CONTROL WIRING WILL BE MARKED AT BOTH ENDS BY PERMANENT WIRE MARKERS.
7. A PLASTIC COVERED WIRING DIAGRAM WILL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
8. ENCLOSURE WILL BE FACTORY WIRED AND CONFORM TO REQUIRED NEMA AND UL 508A STANDARDS.
9. VANDAL-RESISTANT DOORS WITH HASP, STRESS RATED TO 2,000 LBS. ADDITIONAL OPTIONS FOR VANDALISM PROTECTION AVAILABLE.
10. COLOR AS DIRECTED BY OWNER



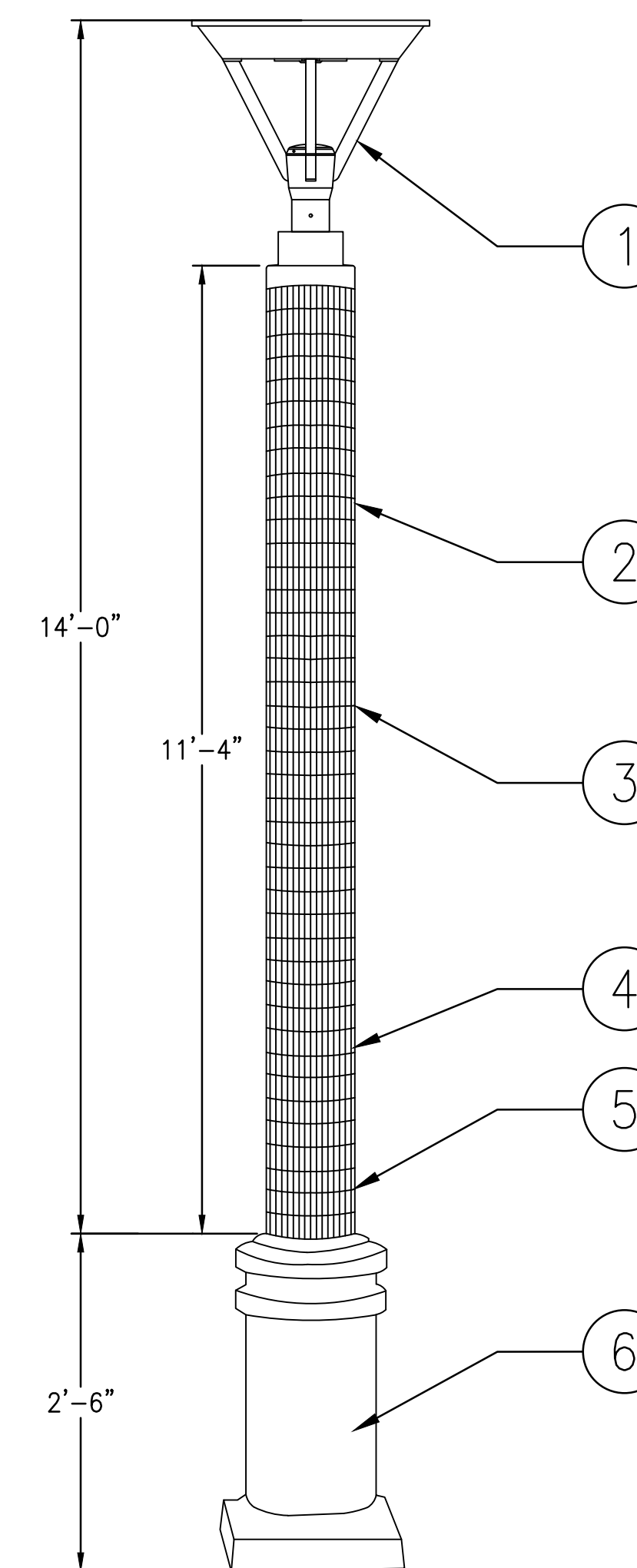
1 SERVICE METER PEDESTAL DETAIL
SCALE: NONE



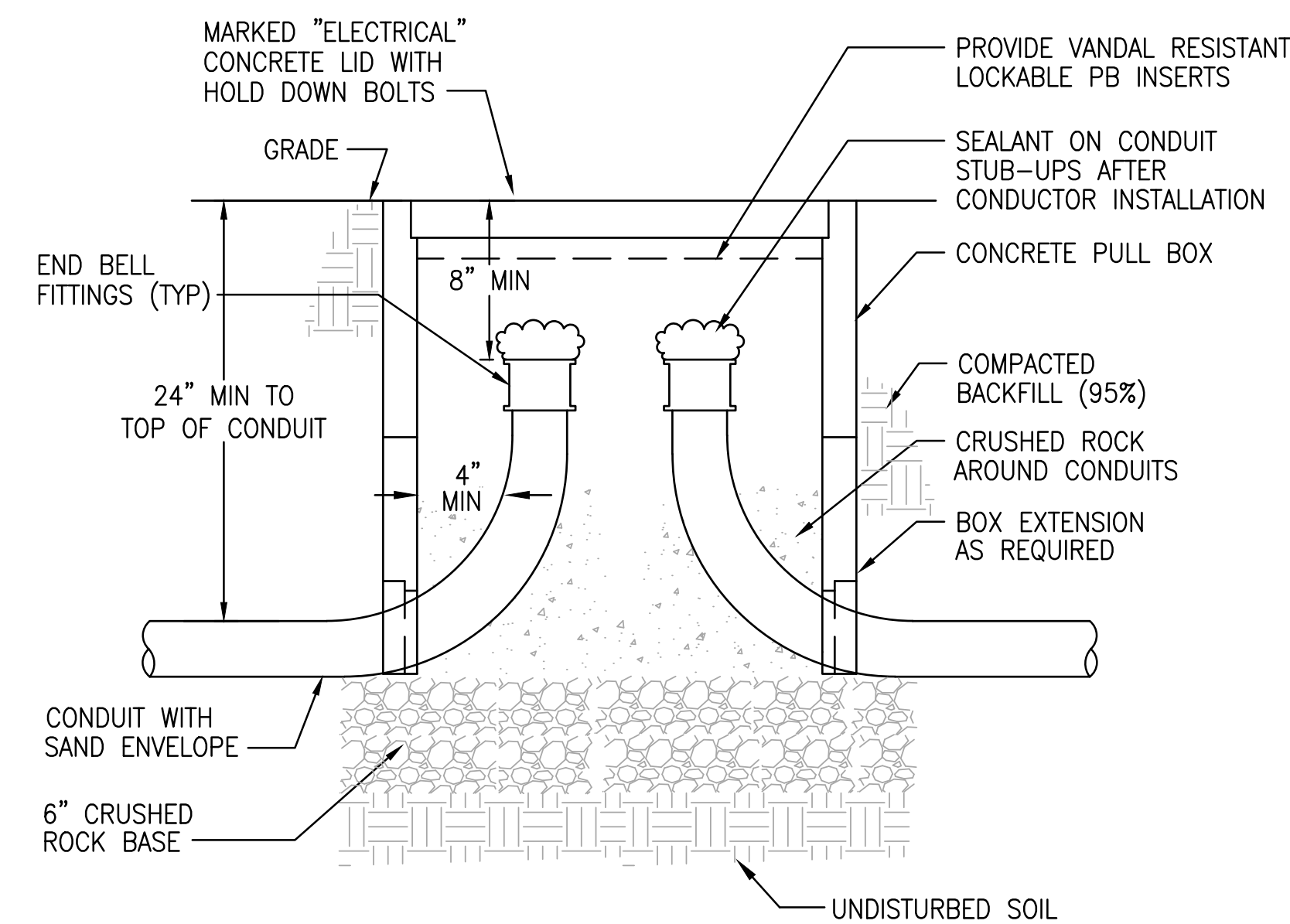
3 TRENCH DETAILS
SCALE: NONE



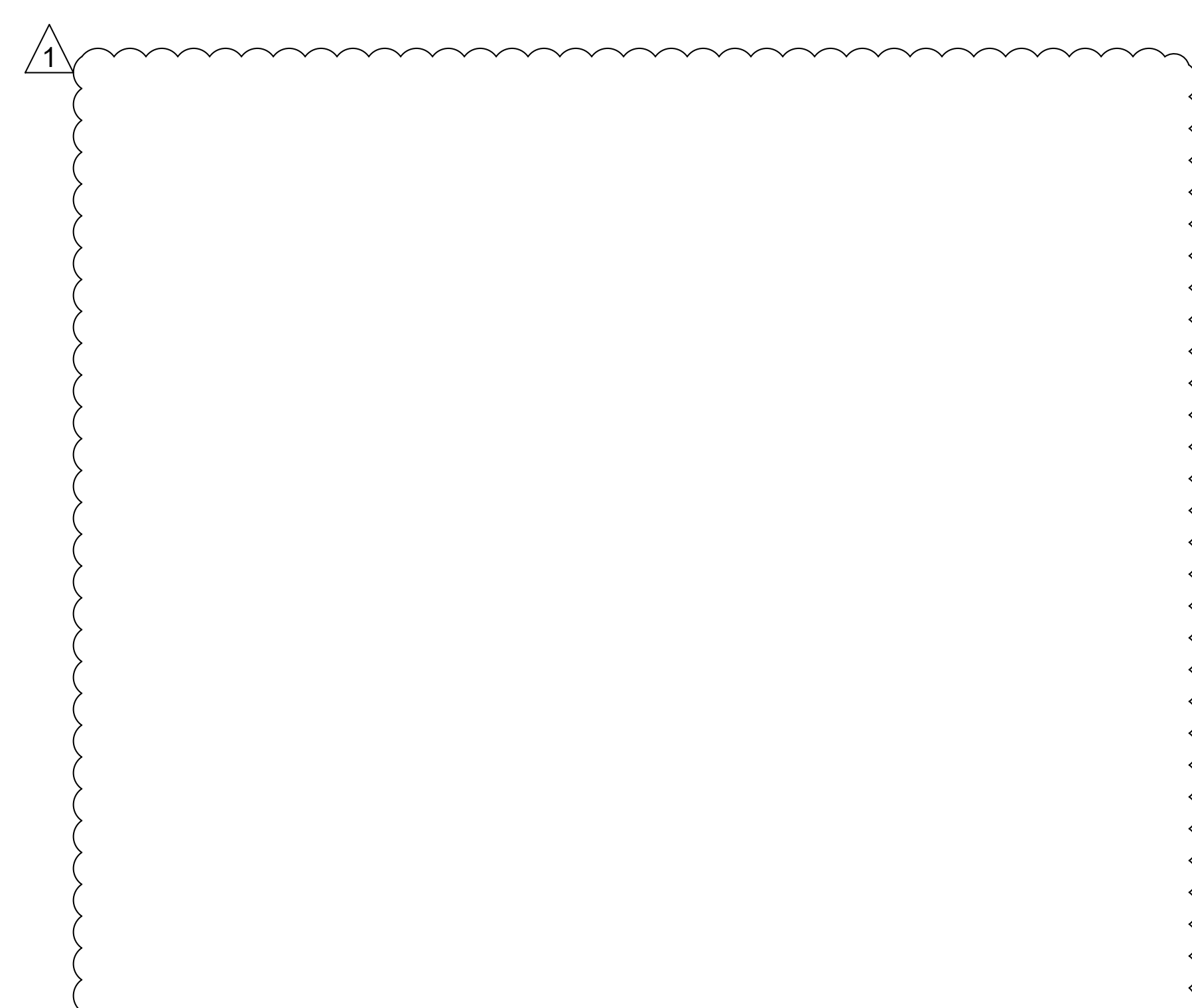
2 LIGHT POLE FOUNDATION DETAIL - PATHWAY
SCALE: NONE



5 LIGHT POLE ASSEMBLY DETAIL - PATHWAY
SCALE: NONE



4 PULL BOX DETAIL
SCALE: NONE



- DETAIL NOTES:**
1. ASTURIAS LED FIXTURE 30W WITH LIGHT SCREENS TO KEEP LIGHT OUT OF NEIGHBORING PROPERTIES
 2. SOLAR ARRAY 320W (11'-4" IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
 3. BATTERY: 24V-75AH LITHIUM ION 1.8KWH
 4. POLE HEIGHT 14'
 5. POLE DIAMETER Ø5"
 6. 2'-6" CONTEMPORARY BASE

MIG | **PGA** | **PEARCE**

800 HEARST AVENUE
BERKELEY, CA 94710
TEL: (510) 845-7549

1222 VINE STREET, SUITE 301
PASO ROBLES, CA 93446
www.pearce-services.com

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
No. 19489
Exp. 06/30/2027

STAMP:

Santa Fe Right-of-Way

Berkeley, CA

PROJECT:

PRWPK2102

PROJECT NUMBER:

City of Berkeley

2180 MILVIA STREET, 3RD FLOOR
BERKELEY, CA 94704

CLIENT:

CIVIL ENGINEER:
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CONSULTANTS:

SPEC NO. 26-11757-C

PLAN NO. 8288

FILE NO. 406-222

REVISION		
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3	02/19/25	PERMIT SET
4	10/17/25	REVISED PERMIT SET
5	04/01/26	PERMIT RESUBMITTAL 2 / BID SET
△	06/03/26	BID ADDENDUM 1

BID SET

ISSUE: **06/03/26**

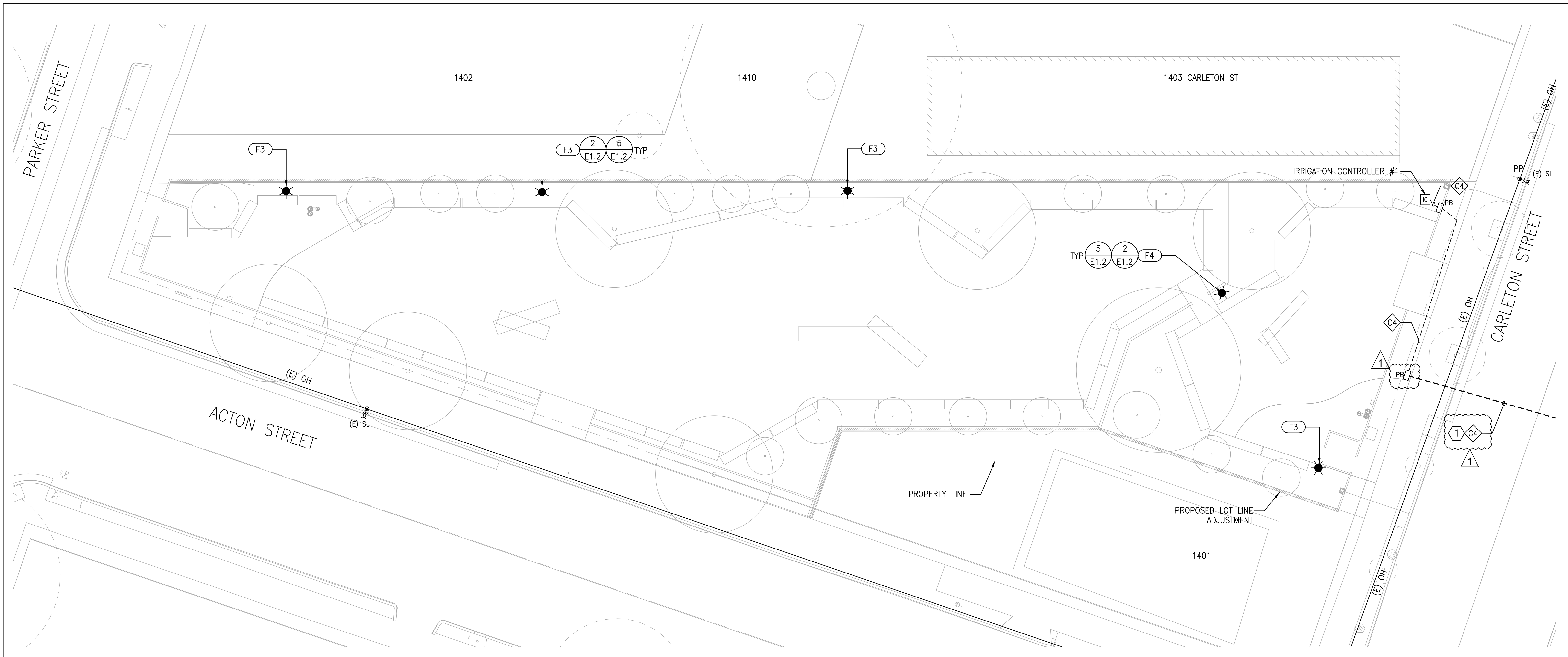
DATE:

ELECTRICAL DETAILS

SHEET TITLE:

E1.2

SHEET NUMBER:



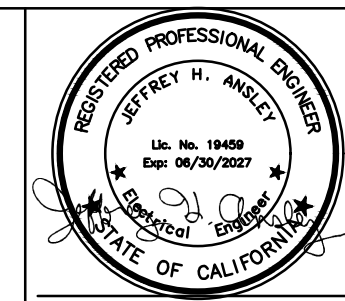
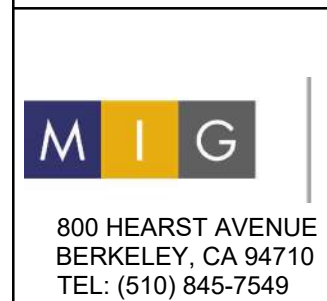
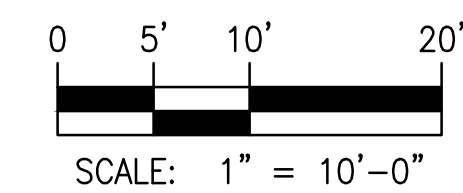
GENERAL NOTES:

1. FIELD-VERIFY TRENCH ALIGNMENT AND LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION. MAINTAIN A MINIMUM OF 12 INCHES OF VERTICAL AND HORIZONTAL CLEARANCE BETWEEN ELECTRICAL CONDUITS AND EXISTING UTILITIES.
2. KEEP 5 FEET SEPARATION FROM TREE, AND, WATER OR STORM DRAIN PIPE.
3. REFER TO SHEET E1.1 FOR FEEDER SCHEDULE AND VOLTAGE DROP CALCULATIONS.

KEYED DESIGN NOTES:

- 1 REFER TO CIVIL DRAWINGS FOR TRENCH DETAIL FOR STREET CROSSING. FIELD COORDINATE EXACT ROUTING.

1 ELECTRICAL PLAN
SCALE: 1/10"=1'-0"



Santa Fe Right-of-Way
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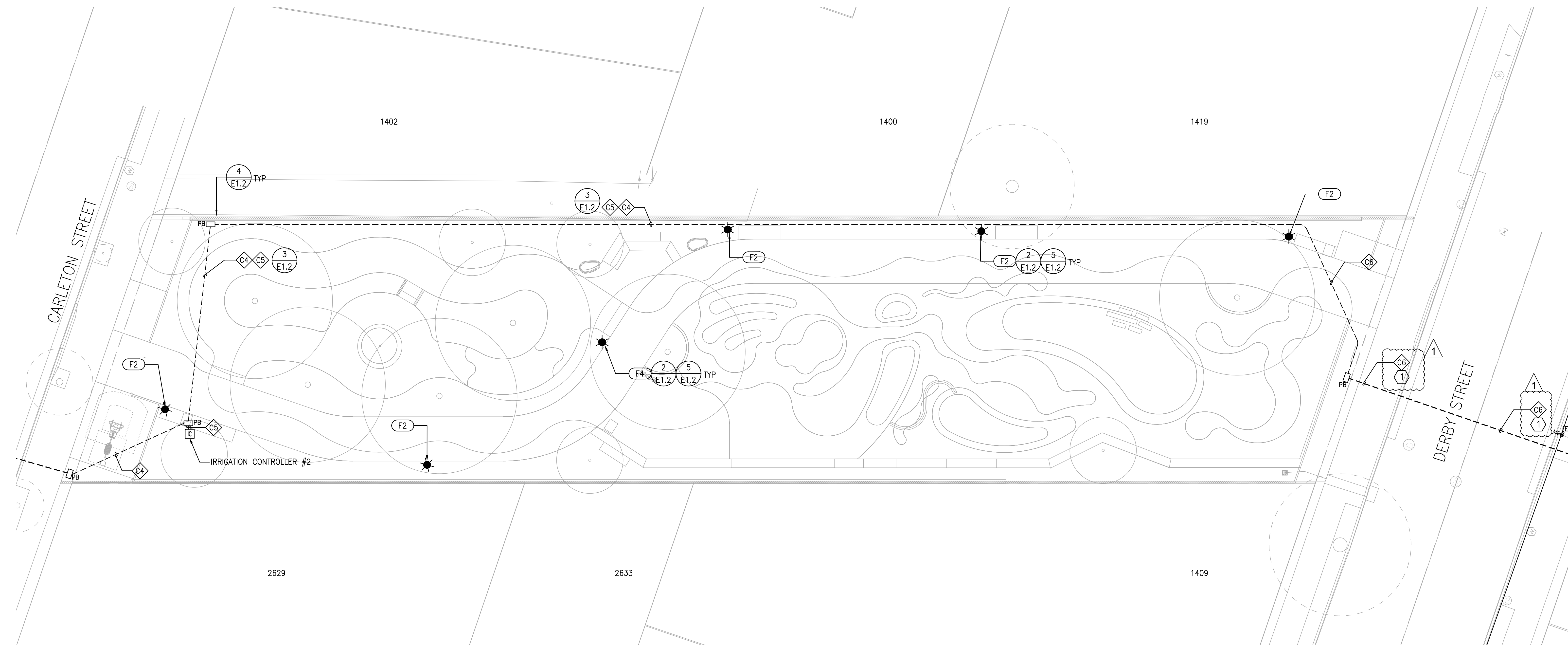
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BID ADDENDUM 1
ISSUE:
06/03/26
DATE:

**ELECTRICAL PLAN
PARKER TO
CARLETON ST
BASE BID**

E2.2



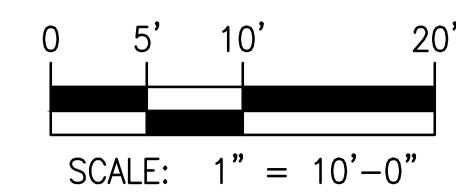
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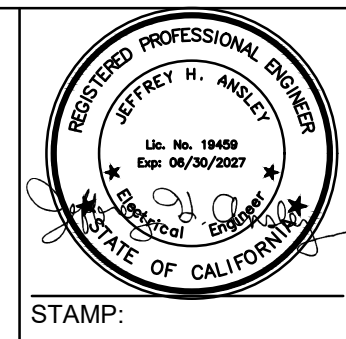
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1 ELECTRICAL PLAN
SCALE: 1/10"=1'-0"



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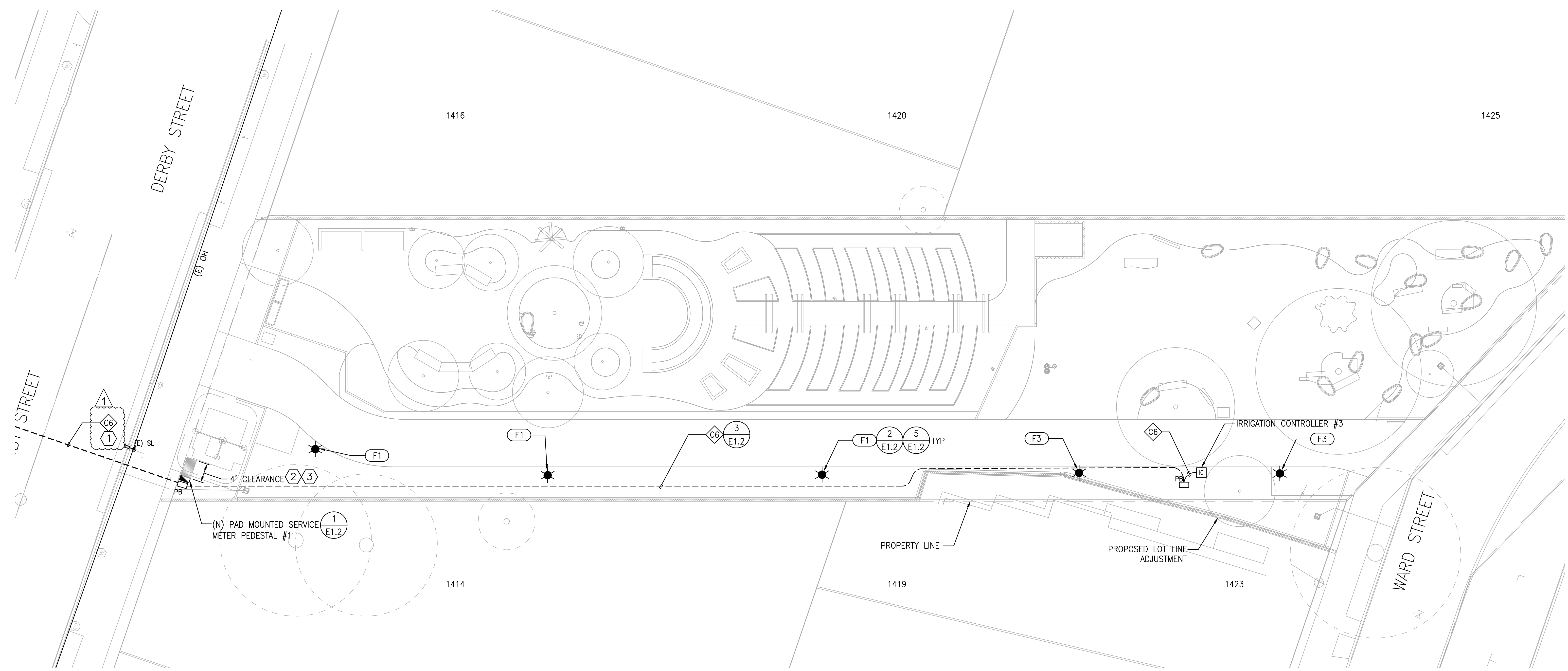
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BID SET
ISSUE:
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DATE:

**ELECTRICAL PLAN
CARLETON TO
DERBY ST
BASE BID**
SHEET TITLE:

E2.3
SHEET NUMBER:

PRWPK21012 - SANTA FE RIGHT OF WAY NEW PARK DEVELOPMENT



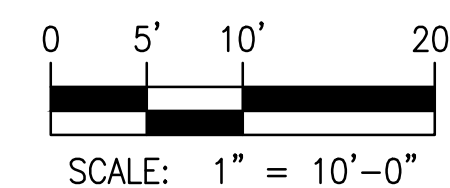
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2. KEEP 5 FEET SEPARATION FROM TREE, AND, WATER OR STORM DRAIN PIPE.
3. REFER TO SHEET E1.1 FOR FEEDER SCHEDULE AND VOLTAGE DROP CALCULATIONS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCHING THE NEW ELECTRICAL SERVICE FROM THE RISER TO THE METER PER PG&E GREENBOOK REQUIREMENTS. NEW SERVICE ASSUMED TO BE DERIVED FROM EXISTING OVERHEAD PG&E FACILITIES. COORDINATE RISER LOCATION WITH PG&E. CONDUIT SIZE FROM THE RISER TO THE METER ASSUMED TO BE 3-INCH.

KEYED DESIGN NOTES:

- 1 REFER TO CIVIL DRAWINGS FOR TRENCH DETAIL FOR STREET CROSSING. FIELD COORDINATE EXACT ROUTING.
- 2 CLEARANCE SHALL BE CLEAR FROM ANY OBSTRUCTION AND ELEVATED.
- 3 CLEARANCE ELEVATION SHALL MATCH THE SURROUNDING AREA.

1 ELECTRICAL PLAN
SCALE: 1/10"=1'-0"



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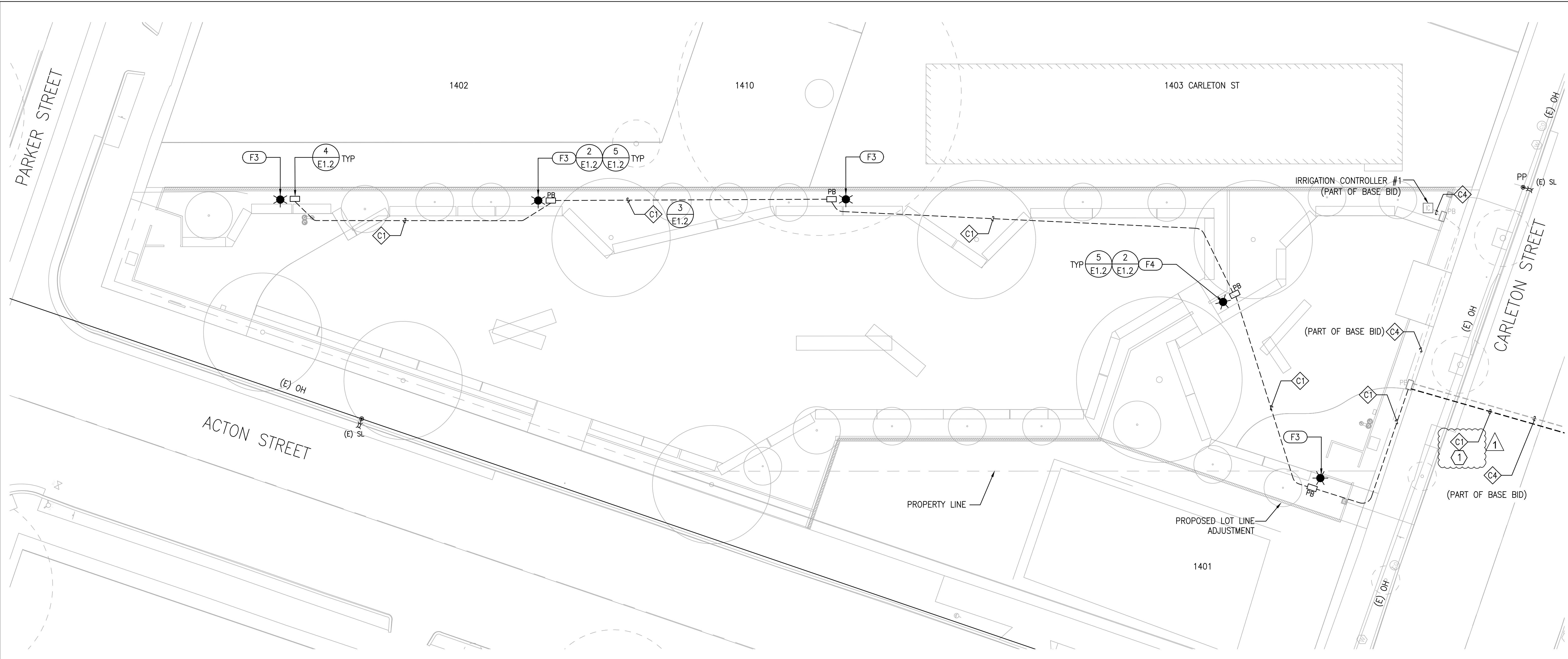
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3	02/19/25	PERMIT SET
4	10/17/25	REVISED PERMIT SET
5	04/01/26	PERMIT RESUBMITTAL 2 / BID SET
1	06/03/26	BID ADDENDUM 1

BID SET
ISSUE:
06/03/26
DATE:

**ELECTRICAL PLAN
DERBY ST TO
WARD ST
BASE BID**
SHEET TITLE:

E2.4
SHEET NUMBER:

PRWPK21012 - SANTA FE RIGHT OF WAY NEW PARK DEVELOPMENT



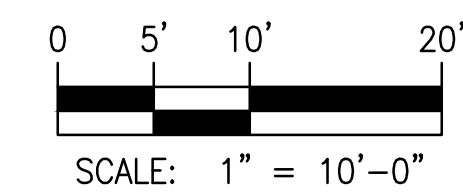
GENERAL NOTES:

1. FIELD-VERIFY TRENCH ALIGNMENT AND LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION. MAINTAIN A MINIMUM OF 12 INCHES OF VERTICAL AND HORIZONTAL CLEARANCE BETWEEN ELECTRICAL CONDUITS AND EXISTING UTILITIES.
2. KEEP 5 FEET SEPARATION FROM TREE, AND, WATER OR STORM DRAIN PIPE.
3. REFER TO SHEET E1.1 FOR FEEDER SCHEDULE AND VOLTAGE DROP CALCULATIONS.

KEYED DESIGN NOTES:

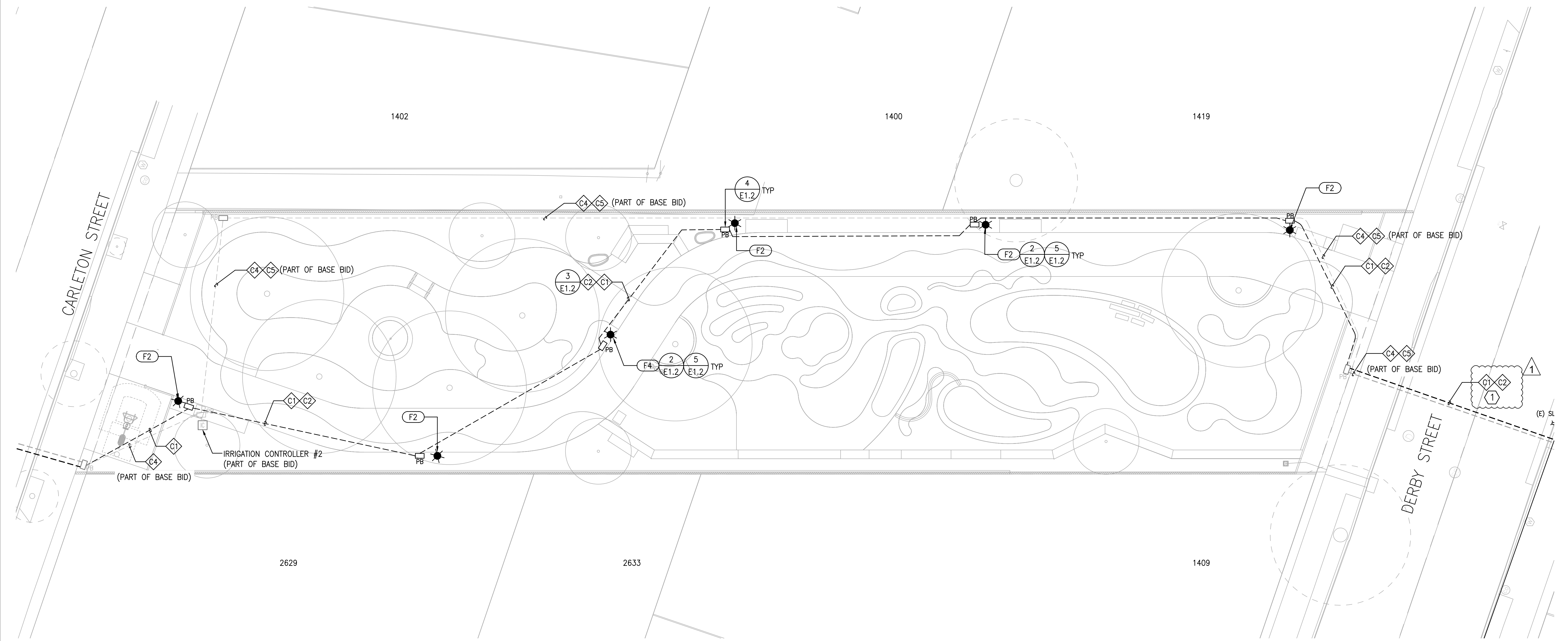
- 1 REFER TO CIVIL DRAWINGS FOR TRENCH DETAIL FOR STREET CROSSING. FIELD COORDINATE EXACT ROUTING.

1 ELECTRICAL PLAN
SCALE: 1/10"=1'-0"



		<p>1222 VINE STREET, SUITE 301 PASO ROBLES, CA 93446 www.pearce-services.com</p>		<p>Santa Fe Right-of-Way</p> <p>Berkeley, CA</p>	<p>PRWPK2102</p>	<p>City of Berkeley</p> <p>2180 MILVIA STREET, 3RD FLOOR BERKELEY, CA 94704</p>	<p>CIVIL ENGINEER: SHERWOOD DESIGN ENGINEERS 2548 MISSION ST SAN FRANCISCO, CA 94110 TEL: (415) 677-7300</p>	<p>ELECTRICAL ENGINEER: PEARCE SERVICES LLC 122 VINE STREET, SUITE 301 PASO ROBLES, CA 93446 TEL: (805) 467-2528</p>	<p>SPEC NO. 26-11757-C</p> <p>PLAN NO. 8288</p> <p>FILE NO. 406-222</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">REVISION</th> </tr> <tr> <th>NUMBER</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>02/12/25</td> <td>PERMIT SET DRAFT</td> </tr> <tr> <td>3</td> <td>02/19/25</td> <td>PERMIT SET</td> </tr> <tr> <td>4</td> <td>10/17/25</td> <td>REVISED PERMIT SET</td> </tr> <tr> <td>5</td> <td>04/01/26</td> <td>PERMIT RESUBMITTAL 2 / BID SET</td> </tr> <tr> <td>▲</td> <td>06/03/26</td> <td>BID ADDENDUM 1</td> </tr> </tbody> </table>	REVISION			NUMBER	DATE	DESCRIPTION	2	02/12/25	PERMIT SET DRAFT	3	02/19/25	PERMIT SET	4	10/17/25	REVISED PERMIT SET	5	04/01/26	PERMIT RESUBMITTAL 2 / BID SET	▲	06/03/26	BID ADDENDUM 1	<p>BID SET</p> <p>ISSUE: 06/03/26</p> <p>DATE:</p>	<p>ELECTRICAL PLAN PARKER TO CARLETON ST BID ADD ALT.</p> <p>SHEET TITLE:</p>	<p>E2.5</p> <p>SHEET NUMBER:</p>
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PRWPK21012 - SANTA FE RIGHT OF WAY NEW PARK DEVELOPMENT



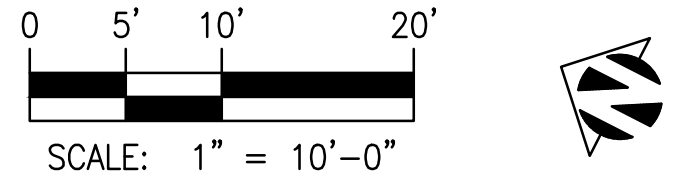
GENERAL NOTES:

1. FIELD-VERIFY TRENCH ALIGNMENT AND LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION. MAINTAIN A MINIMUM OF 12 INCHES OF VERTICAL AND HORIZONTAL CLEARANCE BETWEEN ELECTRICAL CONDUITS AND EXISTING UTILITIES.
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KEYED DESIGN NOTES:

- 1 REFER TO CIVIL DRAWINGS FOR TRENCH DETAIL FOR STREET CROSSING. FIELD COORDINATE EXACT ROUTING.

1 ELECTRICAL PLAN
SCALE: 1/10"=1'-0"



MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL: (510) 845-7549

PGA

PEARCE
1222 VINE STREET, SUITE 301
PASO ROBLES, CA 93446
www.pearce-services.com

Santa Fe Right-of-Way
Berkeley, CA

PRWPK2102
PROJECT NUMBER:

City of Berkeley
2180 MILVIA STREET, 3RD FLOOR
BERKELEY, CA 94704

CIVIL ENGINEER:
SHERWOOD DESIGN ENGINEERS
2548 MISSION ST
SAN FRANCISCO, CA 94110
TEL: (415) 677-7300

ELECTRICAL ENGINEER:
PEARCE SERVICES LLC
1222 VINE STREET, SUITE 301
PASO ROBLES, CA 93446
TEL: (805) 467-2528

SPEC NO.
26-11757-C
PLAN NO.
8288
FILE NO.
406-222

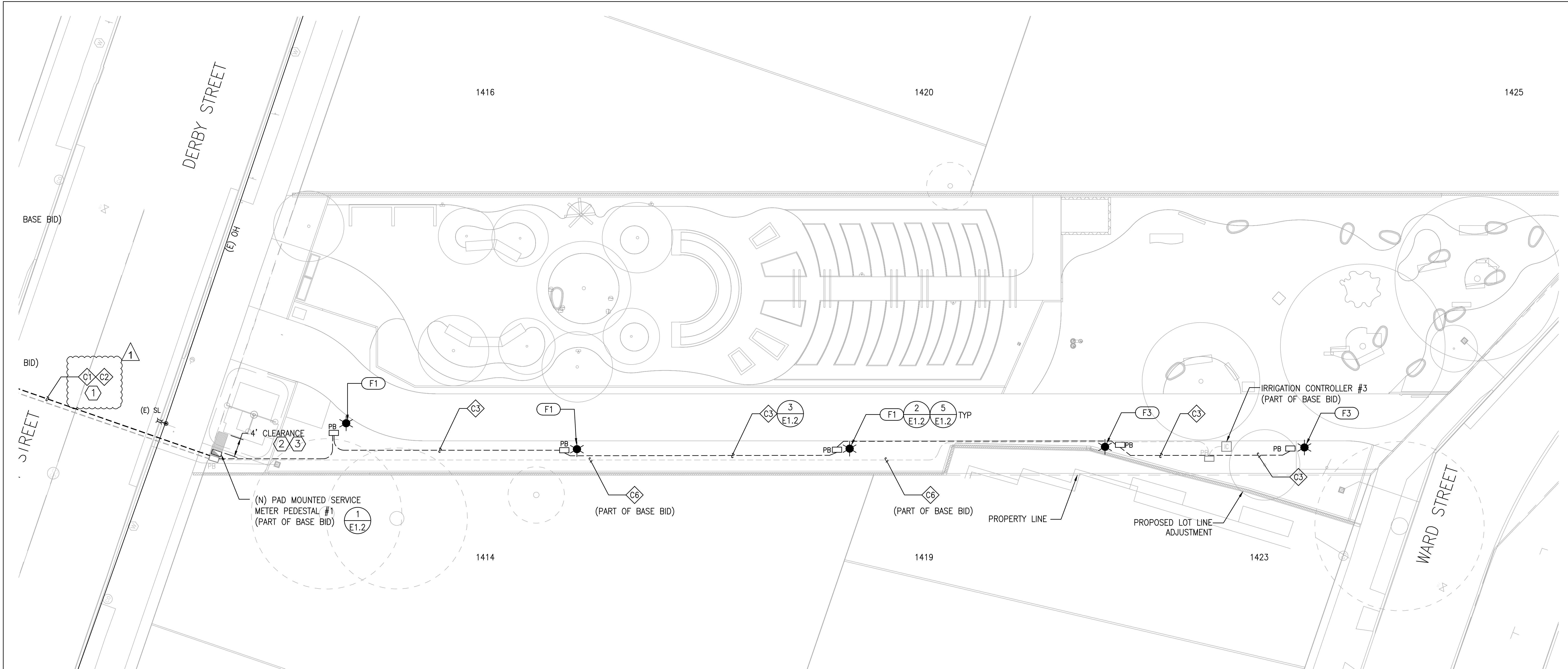
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4	10/17/25	REVISED PERMIT SET
5	04/01/26	PERMIT RESUBMITTAL 2 / BID SET
1	06/03/26	BID ADDENDUM 1

BID SET
ISSUE:
06/03/26
DATE:

**ELECTRICAL PLAN
CARLETON TO
DERBY ST
BID ADD ALT.**
SHEET TITLE:

E2.6
SHEET NUMBER:

PRWPK21012 - SANTA FE RIGHT OF WAY NEW PARK DEVELOPMENT



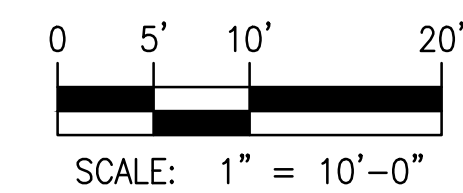
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2. KEEP 5 FEET SEPARATION FROM TREE, AND, WATER OR STORM DRAIN PIPE.
3. REFER TO SHEET E1.1 FOR FEEDER SCHEDULE AND VOLTAGE DROP CALCULATIONS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCHING THE NEW ELECTRICAL SERVICE FROM THE RISER TO THE METER PER PG&E GREENBOOK REQUIREMENTS. NEW SERVICE ASSUMED TO BE DERIVED FROM EXISTING OVERHEAD PG&E FACILITIES. COORDINATE RISER LOCATION WITH PG&E. CONDUIT SIZE FROM THE RISER TO THE METER ASSUMED TO BE 3-INCH.

KEYED DESIGN NOTES:

- 1 REFER TO CIVIL DRAWINGS FOR TRENCH DETAIL FOR STREET CROSSING. FIELD COORDINATE EXACT ROUTING.
- 2 CLEARANCE SHALL BE CLEAR FROM ANY OBSTRUCTION AND ELEVATED.
- 3 CLEARANCE ELEVATION SHALL MATCH THE SURROUNDING AREA.

1 ELECTRICAL PLAN
SCALE: 1/10"=1'-0"



				<p>Santa Fe Right-of-Way</p> <p style="text-align: center;">Berkeley, CA</p>	<p>PRWPK2102</p>	<p>City of Berkeley</p> <p>2180 MILVIA STREET, 3RD FLOOR BERKELEY, CA 94704</p>	<p>CIVIL ENGINEER: SHERWOOD DESIGN ENGINEERS 2548 MISSION ST SAN FRANCISCO, CA 94110 TEL: (415) 677-7300</p>	<p>ELECTRICAL ENGINEER: PEARCE SERVICES LLC 122 VINE STREET, SUITE 301 PASO ROBLES, CA 93446 TEL: (805) 467-2528</p>	<p>SPEC NO. 26-11757-C</p> <p>PLAN NO. 8288</p> <p>FILE NO. 406-222</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">REVISION</th> </tr> <tr> <th>NUMBER</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>02/12/25</td> <td>PERMIT SET DRAFT</td> </tr> <tr> <td>3</td> <td>02/19/25</td> <td>PERMIT SET</td> </tr> <tr> <td>4</td> <td>10/17/25</td> <td>REVISED PERMIT SET</td> </tr> <tr> <td>5</td> <td>04/01/26</td> <td>PERMIT RESUBMITTAL 2 / BID SET</td> </tr> <tr> <td>1</td> <td>06/03/26</td> <td>BID ADDENDUM 1</td> </tr> </tbody> </table>	REVISION			NUMBER	DATE	DESCRIPTION	2	02/12/25	PERMIT SET DRAFT	3	02/19/25	PERMIT SET	4	10/17/25	REVISED PERMIT SET	5	04/01/26	PERMIT RESUBMITTAL 2 / BID SET	1	06/03/26	BID ADDENDUM 1	<p>BID ADDENDUM 1</p> <p>ISSUE: 06/03/26</p> <p>DATE:</p>	<p>ELECTRICAL PLAN DERBY ST TO WARD ST BID ADD ALT.</p> <p>SHEET TITLE:</p>	<p>E2.7</p> <p>SHEET NUMBER:</p>
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DOCUMENT 00 4113
BID FORM

TO CITY OF BERKELEY

THIS BID IS SUBMITTED BY:

(Firm/Company Name)

Re: Santa Fe Trackbed to Park Conversion
New Community Gardens, Dog Park, and Playground at
0 Parker St., 0 Carleton St., 0 Derby St., 0 Ward St., Specification No. 26-11757-C

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an agreement with City of Berkeley in the form included in the Contract Documents, Document 00 5200 (Agreement), to perform and furnish all Work as specified or indicated in the Contract Documents for the Contract Sum and within the Contract Time indicated in this Bid and in accordance with all other terms and conditions of the Contract Documents.
2. Bidder accepts all of the terms and conditions of the Contract Documents, Document 00 1113 (Notice Inviting Bids), and Document 00 2113 (Instructions to Bidders), including, without limitation, those dealing with the disposition of Bid Security. This Bid will remain subject to acceptance for 60 calendar days after the day of Bid opening, unless there is a bid protest, then 90 calendar days after the day of bid opening. Bidder will sign and submit Document 00 5200 (Agreement) and other documents required by Document 002113, paragraph 5.02 (Required Contract Documents and Proof of Insurance) within 20 calendar days after receipt of City's Notice of Intent to Award.
3. In submitting this Bid, Bidder represents that Bidder has examined all of the Contract Documents, performed all necessary Pre-Bid investigations as set forth in Document 00 5200 (Agreement) Article 6 (Contractor's Representation), received the Pre-Bid conference minutes (if any), and received the following Addenda:

Addendum Number	ADDENDUM DATE	Signature of Bidder

4. Based on the foregoing, Bidder proposes and agrees to fully perform the Work within the time stated and in strict accordance with the Contract Documents for the following sums of money listed in the following Schedule of Bid Prices:

SCHEDULE OF BID PRICES

All Bid items, including lump sums and unit prices, must be filled in completely. Bid items are described in Section 01 1100 (Summary of Work). Bid items shall include all labor, materials, services, and equipment necessary for the completion of the Work, including connections to existing systems. Quote in figures only, unless words are specifically requested.

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	ITEM TOTAL
0.00	General Conditions				
0.01	Mobilization	1	LS		
0.02	Prepare and Implement SWPPP (Risk Level 2)	1	LS		
0.03	Demobilization	1	LS		
1.00	Parcel 1 – Blake to Parker				
	Site Preparation and Grading				
1.01	Parcel 1 – Clear and Grub	1	LS		
1.02	Parcel 1 – Site grading and subgrade preparation	1	LS		
	Surfacing				
1.03	Parcel 1 – Stabilized decomposed granite paving	2,309	SF		
1.04	Parcel 1 – Wood Mulch Paving	9,185	SF		
	Utilities				
1.05	Parcel 1 – Sidewalk underdrain	42	LF		
1.06	Parcel 1 – Area Drain	3	EA		
1.07	Parcel 1 – Domestic Water Line and Connections	274	LF		
1.08	Parcel 1 – Domestic Water Valves and Valve Boxes	3	EA		
1.09	Parcel 1 – Hose Bibbs	8	EA		
	Miscellaneous				
1.10	Parcel 1 – Raised Planters	1	LS		
1.11	Parcel 1 – Food pantry and community notice board	1	LS		
1.12	Parcel 1 – Bike Racks	6	EA		
1.13	Parcel 1 – Planting soil mix for raised planters	1	LS		
1.13a	Parcel 1 – Landscape Maintenance Period	1	LS		
2.00	Parcel 2 – Parker to Carleton				
	Site Preparation and Grading				
2.01	Parcel 2 – Clear and Grub	1	LS		
2.02	Parcel 2 – Site grading and subgrade preparation	1	LS		
	Surfacing				
2.03	Parcel 2 – Rolled curb, painted red	18	LF		
2.04	Parcel 2 – Concrete paving, Type A	1,355	SF		

2.05	Parcel 2 – Wood Mulch Paving	8,263	SF		
Fences and Furnishings					
2.06	Parcel 2 – 4’ Wood Fence and Gate	66	LF		
2.07	Parcel 2 – 5’ Chain Link Fences and Gates	42	LF		
2.08	Parcel 2 – Bench	4	EA		
2.09	Parcel 2 – Waste Receptacle	2	EA		
2.10	Parcel 2 – Bike Rack	2	EA		
2.11	Parcel 2 – Dog Waste Bag Dispenser	2	EA		
2.12	Parcel 2 – Stacked Logs	1	LS		
2.13	Parcel 2 – Park Monument Sign	1	EA		
Landscaping and Irrigation					
2.14a	Parcel 2 – Soil Prep and Fine Grading	4,585	SF		
2.14	Parcel 2 – Shrub or Groundcover	1	LS		
2.15	Parcel 2 – Trees	1	LS		
2.16	Parcel 2 – Irrigation System	1	LS		
2.16a	Parcel 2 – Landscape Maintenance Period	1	LS		
Utilities					
2.17	Parcel 2 – Sidewalk underdrain	32	LF		
2.18	Parcel 2 – Area Drain	2	EA		
2.19	Parcel 2 – Domestic Water Line and Connections	264	LF		
2.20	Parcel 2 – Drinking Fountain, Type C including drywell	2	EA		
2.21	Parcel 2 – Pathway Light	5	EA		
2.22	Parcel 2 – Pull Box	2	EA		
2.23	Parcel 2 – Onsite Conduit and Feeders	43	LF		
2.24	Parcel 2 – Conduit and Feeders across Carleton Street	57	LF		
3.00	Parcel 3 – Carleton to Derby				
Site Preparation and Grading					
3.01	Parcel 3 – Clear and Grub	1	LS		
3.02	Parcel 3 – Site grading and subgrade preparation	1	LS		
Surfacing					
3.03	Parcel 3 – Rolled curb, painted red	36	LF		
3.04	Parcel 3 – Concrete paving, Type A	1,880	SF		

3.05	Parcel 3 – Concrete paving, Type B	3,071	SF		
3.06	Parcel 3 – Concrete paving, Type C	281	SF		
3.07	Parcel 3 – Permeable Pavers	760	SF		
3.08	Parcel 3 – Resilient rubber surfacing	1	LS		
3.08a	Parcel 3 - Concrete band	40	LF		
Furnishings					
3.09	Parcel 3 – Bench	4	EA		
3.10	Parcel 3 – Waste receptacle	3	EA		
3.11	Parcel 3 – Bike rack	5	EA		
3.12	Parcel 3 – Child’s Bike rack	2	EA		
3.13	Parcel 3 – Picnic table	2	EA		
3.14	Parcel 3 – Play Equipment	1	LS		
3.15	Parcel 3 – Fitness Equipment	1	LS		
3.16	Parcel 3 – Timber seating	1	LS		
3.17	Parcel 3 – Park monument sign	1	EA		
3.18	Parcel 3 – Boulders	1	LS		
Landscaping and Irrigation					
3.19a	Parcel 3 – Soil Prep and Fine Grading	3,420	SF		
3.19	Parcel 3 – Shrub or Groundcover	1	LS		
3.20	Parcel 3 – Trees	1	LS		
3.21	Parcel 3 – Native mow free sod	1,220	SF		
3.22	Parcel 3 – Irrigation System	1	LS		
3.22a	Parcel 3 – Landscape Maintenance Period	1	LS		
Utilities					
3.23	Parcel 3 – Sidewalk underdrain	10	LF		
3.24	Parcel 3 – Area Drain	1	EA		
3.25	Parcel 3 – Domestic Water Line and Connections	143	LF		
3.26	Parcel 3 – Drinking Fountain, Type A including drywell	1	EA		
3.27a	Parcel 3 – Service meter pedestal	1	EA		
3.27	Parcel 3 – Pathway Light	6	EA		
3.28	Parcel 3 – Pull Box	4	EA		
3.29	Parcel 3 – Onsite Conduit and Feeders	336	LF		
3.30	Parcel 3 – Conduit and Feeders across Derby Street	59	LF		
3.30a	Parcel 3 – 3” conduit for PG&E connection	15	LF		
4.00 Parcel 4 – Derby to Ward					
Site Preparation and Grading					
4.01	Parcel 4 – Clear and Grub	1	LS		

4.02	Parcel 4 – Site grading and subgrade preparation	1	LS		
Surfacing					
4.03	Parcel 4 – Rolled curb, painted red	36	LF		
4.04	Parcel 4 – Concrete paving, Type A	2,615	SF		
4.05	Parcel 4 – Stabilized Decomposed granite paving	2,868	SF		
4.06	Parcel 4 - Permeable Pavers	3,585	SF		
4.07	Parcel 4 – Resilient rubber surfacing, color C	279	SF		
4.07a	Parcel 4 – Wood mulch paving	675	SF		
Fences and Furnishings					
4.08a	Parcel 4 – 5’ Chain Link Fence and Gates	202	LF		
4.08	Parcel 4 – Picnic table	3	EA		
4.09	Parcel 4 – Stump table	1	EA		
4.10	Parcel 4 – Outdoor classroom demonstration table and chalkboard	1	LS		
4.11	Parcel 4 – Waste receptacle	2	EA		
4.12	Parcel 4 – Bike rack	7	EA		
4.13	Parcel 4 – BBQ grills and coal disposal	1	LS		
4.14	Parcel 4 – Fitness equipment	1	LS		
4.15	Parcel 4 – Freestanding log	1	LS		
4.16a	Parcel 4 - Shed	1	EA		
4.16	Parcel 4 – Park monument sign	1	EA		
4.17	Parcel 4 - Boulders	1	LS		
4.18	Parcel 4 – curved accessible raised planting bed	1	LS		
4.19	Parcel 4 – vine pyramid	1	LS		
4.20	Parcel 4 – raised planters	1	LS		
4.21	Parcel 4 – in ground planters	1	LS		
Landscaping and Irrigation					
4.22a	Parcel 4 – Soil Prep and Fine Grading	3,073	SF		
4.22	Parcel 4 – Shrub or Groundcover	1	LS		
4.23	Parcel 4 – Trees	1	LS		
4.24	Parcel 4 – Planting Soil Mix	1	LS		
4.25	Parcel 4 – Native mow free sod	77	SF		

4.26	Parcel 4 – Hugelkultur bed	1	LS		
4.27	Parcel 4 – Irrigation System	1	LS		
4.27a	Parcel 4 – Landscape Maintenance Period	1	LS		
Utilities					
4.28	Parcel 4 – Sidewalk underdrain	58	LF		
4.29	Parcel 4 – Area Drain	3	EA		
4.30	Parcel 4 – Domestic Water Line and Connections	307	LF		
4.31	Parcel 4 – Domestic Water Valves and Valve Boxes	5	EA		
4.32a	Parcel 4 – Hose Bibbs	5	EA		
4.32	Parcel 4 – Drinking Fountain, Type B including drywell	1	EA		
4.33	Parcel 4 – Pathway Light	5	EA		
4.34	Parcel 4 – Pull Box	2	EA		
4.35	Parcel 4 – Onsite Conduit and Feeders	219	LF		
Total Bid Price (Bid Items 0.01 through 4.35)					

Total Bid Price: (Bid Items 0.01 Through 4.35)

(Words)

Additive Alternates

ITEM	DESCRIPTION	PRICE (\$)
1	Additive Alternate 1: Parcel 1 – community garden shed, bulk storage, and garden work bench.	
2	Additive Alternate 2: Parcel 1 – in ground beds, picnic tables, and cold frames	
3	Additive Alternate 3: Parcel 2 – freestanding logs	
4	Additive Alternate 4: Parcel 4 – accessible cold frame, bulk material storage, garden trellis, and ADA picnic table	
5	Additive Alternate 5: Parcels 2 thru 4 – conduit and feeders for pathway lights	

5. Subcontractors for work included in all Bid items are listed on Document 00 4330 (Subcontractors List) submitted herewith.
6. The undersigned Bidder understands that City reserves the right to reject this Bid, but that this Bid shall remain open and shall not be withdrawn for a period of sixty (60) calendar days from the date prescribed for its opening.
7. If written notice of the acceptance of this Bid, hereinafter referred to as Notice of Intent to Award, is mailed or delivered to the undersigned Bidder within the time described in Paragraph 2 of this Document 00 4113 or at any other time thereafter before it is withdrawn, the undersigned Bidder will execute and deliver the documents required by Document 00 2113 (Instructions to Bidders) within the times specified therein.
8. Notice of Award or request for additional information may be addressed to the undersigned Bidder at the address set forth below.
9. The undersigned Bidder herewith encloses cash, a cashier's check, or certified check of or on a responsible bank in the United States, or a corporate surety bond furnished by a surety authorized to do a surety business in the State of California, in form specified in Document 00 2113 (Instructions to Bidders), in the amount of ten percent (10%) of the Total Bid Price and made payable to City of Berkeley.
10. The undersigned Bidder agrees to commence Work under the Contract Documents on the date established in Document 00 7200 (General Conditions) and to complete all Work within the time specified in Document 00 5200 (Agreement).
11. The undersigned Bidder agrees that, in accordance with Document 00 7200 (General Conditions), liquidated damages for failure to complete all Work in the Contract within the time specified in Document 00 5200 (Agreement) shall be as set forth in Document 00 5200.
12. The names of all persons interested in the foregoing Bid as principals are:

IMPORTANT NOTICE: If Bidder or other interested person is a corporation, give the legal name of corporation, state where incorporated, and names of president and secretary thereof; if a partnership, give name of the firm and names of all individual co-partners composing the firm; if Bidder or other interested person is an individual, give first and last names in full.

NAME OF BIDDER: _____

licensed in accordance with an act for the registration of Contractors, and with license number: _____ Expiration: _____.

(Place of Incorporation, if Applicable) (Principal)

(Principal)

(Principal)

I certify (or declare) under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

(Signature of Bidder)

NOTE: If Bidder is a corporation, set forth the legal name of the corporation together with the signature of the officer or officers authorized to sign contracts on behalf of the corporation. If Bidder is a partnership, set forth the name of the firm together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership.

Business Address:

Contractor's Representative(s):

(Name/Title)

(Name/Title)

(Name/Title)

Officers Authorized to Sign Contracts

(Name/Title)

(Name/Title)

(Name/Title)

Telephone Number(s):

(Area Code) (Number)

(Area Code) (Number)

Fax Number(s):

(Area Code) (Number)

(Area Code) (Number)

Date of Bid:

END OF SECTION

DIVISION 1 GENERAL REQUIREMENTS

SECTION 01 1100

SUMMARY OF WORK

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes Summary of Work and Work Restrictions including:
1. Work Covered By Contract Documents
 2. Bid Item, Allowances and Alternates
 3. Contract Document Organization
 4. Maintenance
 5. Work Under Other Contracts
 6. Future Work
 7. Work Sequence
 8. Work Days and Hours
 9. Shutdown for Discovery of Cultural Resources
 10. Cooperation of Contractor and Coordination with Other Work
 11. Partial Occupancy/Utilization Requirements
 12. Contractor Use of Site
 13. Air Quality Standards
 14. Construction Staking, Monument Protection and Replacement
 15. Geotechnical Data and Existing Conditions
 16. Protection of Existing Structures and Underground Facilities
 17. Permits
 18. Actual Damages for Permit Violations
 19. Reference Standards
 20. Products Ordered in Advance
 21. City-Furnished Products

1.02 WORK COVERED BY CONTRACT DOCUMENTS

- A. Work comprises of the construction of City's **Santa Fe Trackbed to Park Conversion New Community Gardens, Dog Park, and Playground** located at **0 Parker St., 0 Carleton St., 0 Derby St., 0 Ward St.**. The Work includes, without limitation, new community gardens, separate dog park, kid's playground and tot cycle track, picnic areas, outdoor fitness stations, ADA pathways and plazas, landscaping, irrigation, lighting, drinking fountains, fences, gates, and other ancillary work. In the end, a new four block park will be created. Contract Documents fully describe the Work.
- B. The Work of this Contract comprises construction of all the Work indicated, described in the Specifications, or otherwise required by the Contract Documents. Unless provided otherwise in the Contract Documents, all risk of loss to Work covered by Contract Documents shall rest with Contractor until Final Acceptance of the Work. Cost of maintenance of systems and equipment prior to Final Acceptance will be considered as included in prices Bid and no direct or additional payment will be made therefore.
- C. For all Bid items, furnish and install all Work, including connections to existing systems, indicated and described in Specifications and all other Contract Documents. Work and requirements applicable to each individual Bid item, or unit of Work, shall be deemed incorporated into the description of each Bid item (whether Lump Sum or Unit Price). Any Bid item may be deleted

from the Work and Contract Sum, in total or in part, prior to or after award of Contract without compensation in any form or adjustment of other Bid items or prices therefore.

- D. Allowance Work shall be done as Change Orders and as specified in Section 01 2600 (Modification Procedures). Identify Allowance Items (See Document 00 4113 [Bid Form]) work on the Progress Schedules and on Applications for Payment. The Amount given on Document 00 4113 (Bid Form) under each Allowance Item is the sum of money set aside for each Allowance Item. These amounts shall be included in the Contract Sum on the Bid Form. If the cost of Work done under any Allowance Item is less than the amount given on the Bid Form under that Allowance Item, the Contract Sum shall be reduced by the difference between the amount given in the Bid Form and the cost of Work actually done.

1.03 BID ITEMS, ALLOWANCES AND ALTERNATES

A. Descriptions of Lump Sum Items (listed by Bid item numbers):

- 0.01 Mobilization – Planning, resource acquisition, and setup before physical work. Work includes but is not limited to acquiring all necessary permits, notifying USA, tree protection, traffic control, and installing temporary facilities.
- 0.02 Prepare and Implement SWPPP (Risk Level 2) – Submit an approved SWPPP with WDID #. Bid item includes inspection services per the approved SWPPP and submittal of all required documents to the State Water Board for the duration of construction including closeout procedures. Implementing specifications, including Section 01 5700 “Temporary Controls” and Section 01 7413 “Project Cleaning” of the General Requirements.
- 0.03 Demobilization – Removing all personnel, equipment, materials, and temporary facilities from the site after project completion.
- 1.01 Parcel 1 – Clear and Grub – Work includes labor, materials and equipment needed to clear and grub the site in preparation for the install of features as denoted in the plans and specifications including the requirements of specification sections 02 4119 Demolition and 31 3000 Earthwork and Grading at Parcel 1 (Blake to Parker).
- 1.02 Parcel 1 – Site grading and subgrade preparation – Work includes labor, materials and equipment needed to perform site grading and subgrade preparation as denoted in the plans and specifications including the requirements of specification section 31 3000 Earthwork and Grading at Parcel 1 (Blake to Parker).
- 1.10 Parcel 1 – Raised Planters – Work includes labor, materials and equipment needed to perform the furnishing and install of raised planters as denoted in the plans and specifications at Parcel 1 (Blake to Parker).
- 1.11 Parcel 1 – Food pantry and community notice board – Work includes labor, materials and equipment needed to perform the furnishing and install of food pantry and community notice board as denoted in the plans and specifications at Parcel 1 (Blake to Parker).
- 1.13 Parcel 1 – Planting soil mix for raised planters - Work includes labor, materials and equipment needed to perform the furnishing and install of planting soil mix for raised planters as denoted in the plans and specifications including the requirements of specification section 32 9000 Planting at Parcel 1 (Blake to Parker).
- 1.13a Parcel 1 – Landscape Maintenance Period – Work includes labor, materials, and equipment needed to perform the landscape maintenance period as denoted in specification section 32 9000 Planting at Parcel 1 (Blake to Parker).

- 2.01 Parcel 2 – Clear and Grub – Clear and grub at Parcel 2 (Parker to Carleton). See bid item description 1.01 Parcel 1 – Clear and Grub.
- 2.02 Parcel 2 – Site grading and subgrade preparation – Site grading and subgrade preparation at Parcel 2 (Parker to Carleton). See bid item description 1.02 Parcel 1 – Site grading and subgrade preparation.
- 2.12 Parcel 2 – Stacked Logs – Work includes labor, materials and equipment needed to furnish and install stacked logs as denoted in the plans and specifications at Parcel 2 (Parker to Carleton).
- 2.14 Parcel 2 – Shrub or Groundcover - Work includes labor, materials and equipment needed to furnish and install shrub or groundcover as denoted in the plans and specifications including the requirements of specification section 32 9000 Planting at Parcel 2 (Parker to Carleton).
- 2.15 Parcel 2 – Trees - Work includes labor, materials and equipment needed to furnish and install trees as denoted in the plans and specifications including the requirements of specification section 32 9000 Planting at Parcel 2 (Parker to Carleton).
- 2.16 Parcel 2 – Irrigation System - Work includes labor, materials and equipment needed to furnish and install irrigation system as denoted in the plans and specifications including the requirements of specification section 32 8400 Irrigation at Parcel 2 (Parker to Carleton).
- 2.16a Parcel 2 – Landscape Maintenance Period – Landscape maintenance period at Parcel 2 (Parker and Carleton). See bid item description 1.13a Parcel 1 – Landscape Maintenance Period.
- 3.01 Parcel 3 – Clear and Grub - Clear and grub at Parcel 3 (Carleton to Derby). See bid item description 1.01 Parcel 1 – Clear and Grub.
- 3.02 Parcel 3 – Site grading and subgrade preparation – Site grading and subgrade preparation at Parcel 3 (Carleton to Derby). See bid item description 1.02 Parcel 1 – Site grading and subgrade preparation.
- 3.08 Parcel 3 – Resilient rubber surfacing - Work includes labor, materials and equipment needed to perform the furnishing and install of permeable pavers as denoted in the plans and specifications including the requirements of specification section 32 1816 Poured-In-Place Rubber Surfacing at Parcel 3 (Carleton to Derby).
- 3.14 Parcel 3 – Play Equipment– Work includes labor, materials and equipment needed to perform the furnishing and install of play equipment, including the scooter track wood bridge and scooter track pipe tunnel, as denoted in the plans and specifications including the requirements of specification sections 11 6813 Play Equipment and 32 3119 Metal Railing at Parcel 3 (Carleton to Derby).
- 3.15 Parcel 3 – Fitness Equipment – Work includes labor, materials and equipment needed to perform the furnishing and install of fitness equipment as denoted in the plans and specifications including the requirements of specification section 11 6813 Play Equipment at Parcel 3 (Carleton to Derby).
- 3.16 Parcel 3 – Timber Seating – Work includes labor, materials and equipment needed to perform the furnishing and install of timber seating as denoted in the plans and specifications at Parcel 3 (Carleton to Derby).

- 3.18 Parcel 3 – Boulders– Work includes labor, materials and equipment needed to perform the furnishing and install of boulders as denoted in the plans and specifications at Parcel 3 (Carleton to Derby).
- 3.19 Parcel 3 – Shrub or Groundcover – Shrub or groundcover at Parcel 3 (Carleton to Derby). See bid item description 2.14 Parcel 2 – Shrub or Groundcover.
- 3.20 Parcel 3 – Trees – Trees at Parcel 3 (Carleton to Derby). See bid item description 2.15 Parcel 2 – Trees.
- 3.22 Parcel 3 – Irrigation System – Irrigation system at Parcel 3 (Carleton to Derby). See bid item description 2.16 Parcel 2 – Irrigation System.
- 3.22a Parcel 3 – Landscape Maintenance Period – Landscape maintenance period at Parcel 3 (Carleton to Derby). See bid item description 1.13a Parcel 1 – Landscape Maintenance Period.
- 4.01 Parcel 4 – Clear and Grub - Clear and grub at Parcel 4 (Derby to Ward). See bid item description 1.01 Parcel 1 – Clear and Grub.
- 4.02 Parcel 4 – Site grading and subgrade preparation – Site grading and subgrade preparation at Parcel 4 (Derby to Ward). See bid item description 1.02 Parcel 1 – Site grading and subgrade preparation.
- 4.10 Parcel 4 – Outdoor classroom demonstration table and chalkboard - Work includes labor, materials and equipment needed to perform the furnishing and install of outdoor classroom demonstration table and chalkboard as denoted in the plans and specifications at Parcel 4 (Derby to Ward).
- 4.13 Parcel 4 – BBQ grills and coal disposal - Work includes labor, materials and equipment needed to perform the furnishing and install of BBQ grills and coal disposal as denoted in the plans and specifications including the requirements of specification section 12 9300 Site Furnishings at Parcel 4 (Derby to Ward).
- 4.14 Parcel 4 – Fitness equipment – Fitness equipment at Parcel 4 (Derby to Ward). See bid item description 3.15 Parcel 3 – Fitness equipment.
- 4.15 Parcel 4 – Freestanding log - Work includes labor, materials and equipment needed to furnish and install freestanding logs as denoted in the plans and specifications at Parcel 4 (Derby to Ward).
- 4.17 Parcel 4 – Boulders - Boulders at Parcel 4 (Derby to Ward). See bid item description 3.18 Parcel 3 – Boulders.
- 4.18 Parcel 4 – Curved accessible raised planting bed - Work includes labor, materials and equipment needed to perform the furnishing and install of curved accessible raised planting bed as denoted in the plans and specifications at Parcel 4 (Derby to Ward).
- 4.19 Parcel 4 – Vine pyramid - Work includes labor, materials and equipment needed to perform the furnishing and install of vine pyramid as denoted in the plans and specifications at Parcel 4 (Derby to Ward).
- 4.20 Parcel 4 – Raised planters – Raised planters at Parcel 4 (Derby to Ward). See bid item description 1.10 Parcel 1 – Raised planters.

- 4.21 Parcel 4 – In ground planters - Work includes labor, materials and equipment needed to perform the furnishing and install in ground planters as denoted in the plans and specifications at Parcel 4 (Derby to Ward).
- 4.22 Parcel 4 – Shrub or groundcover – Shrub or groundcover at Parcel 4 (Derby to Ward). See bid item description 2.14 Parcel 2 – Shrub or Groundcover.
- 4.23 Parcel 4 – Trees – Trees at Parcel 4 (Derby to Ward). See bid item description 2.15 Parcel 2 – Trees.
- 4.24 Parcel 4 – Planting soil mix - Work includes labor, materials and equipment needed to perform the furnishing and install of planting soil mix as denoted in the plans and specifications including the requirements of specification section 32 9000 Planting at Parcel 4 (Derby to Ward).
- 4.26 Parcel 4 –Hugelkultur bed - Work includes labor, materials and equipment needed to perform the furnishing and install of the hügelkultur bed as denoted in the plans and specifications at Parcel 4 (Derby to Ward).
- 4.27 Parcel 4 – Irrigation System – Irrigation system at Parcel 4 (Derby to Ward). See bid item description 2.16 Parcel 2 – Irrigation System.
- 4.27a Parcel 4 – Landscape Maintenance Period – Landscape maintenance period at Parcel 4 (Derby to Ward). See bid item description 1.13a Parcel 1 – Landscape Maintenance Period.

B. Descriptions of Unit Price Items and Basis of Measurement for Payment (listed by Bid item numbers):

- 1.03 Parcel 1 – Stabilized decomposed granite paving – Work includes labor, materials and equipment needed to furnish and install stabilized decomposed granite paving as denoted in the plans and specifications including the requirements of specification section 32 1540 Decomposed Granite Paving at Parcel 1 (Blake to Parker).
- 1.04 Parcel 1 – Wood Mulch – Work includes labor, materials and equipment needed to furnish and install wood mulch as denoted in the plans and specifications including the requirements of specification section 32 9000 Planting at Parcel 1 (Blake to Parker).
- 1.05 Parcel 1 – Sidewalk underdrain – Work includes labor, materials and equipment needed to perform the furnishing and install of sidewalk underdrains as denoted in the plans and specifications including the requirements of specification sections 31 2333 Utility Trenching and Backfilling at Parcel 1 (Blake to Parker). Work includes the demolition and replacement of existing pavement as necessary.
- 1.06 Parcel 1 – Area Drain - Work includes labor, materials and equipment needed to perform the furnishing and install of area drains as denoted in the plans and specifications at Parcel 1 (Blake to Parker).
- 1.07 Parcel 1 – Domestic Water Line and Connections - Work includes labor, materials and equipment needed to perform the furnishing and install of domestic water line and connections as denoted in the plans and specifications including the requirements of specification sections 31 2333 Utility Trenching and Backfilling and 33 1416 Water Utilities for Potable and Non-

Potable Systems at Parcel 1 (Blake to Parker). Work includes the demolition and replacement of existing pavement as necessary.

- 1.08 Parcel 1 – Domestic Water Valves and Valve Boxes - Work includes labor, materials and equipment needed to perform the furnishing and install of valves and valve boxes as denoted in the plans and specifications including the requirements of specification section 33 1416 Water Utilities for Potable and Non-Potable Systems at Parcel 1 (Blake to Parker).

Parcel 1 – Hose Bibbs – Work includes labor, materials and equipment needed to perform the furnishing and install of hose bibbs as denoted in the plans and specifications including the requirements of specification section 33 1416 Water Utilities for Potable and Non-Potable Systems at Parcel 1 (Blake to Parker).

- 1.12 Parcel 1 – Bike Racks – Work includes labor, materials and equipment needed to perform the furnishing and install of bike racks as denoted in the plans and specifications including the requirements of specification section 12 9300 Site Furnishings at Parcel 1 (Blake to Parker).
- 2.03 Parcel 2 – Rolled curb, painted red - Work includes labor, materials and equipment needed to perform the furnishing and install of rolled curb and painting the rolled curb red as denoted in the plans and specifications including the requirements of specification sections 03 3000 Cast-In-Place Concrete and 32 1313 Concrete Paving at Parcel 2 (Parker to Carleton).
- 2.04 Parcel 2 – Concrete paving, Type A - Work includes labor, materials and equipment needed to perform the furnishing and install of concrete paving, Type A as denoted in the plans and specifications including the requirements of specification section 03 3000 Cast-In-Place Concrete and 32 1313 Concrete Paving at Parcel 2 (Parker to Carleton).
- 2.05 Parcel 2 – Wood Mulch – Wood mulch at Parcel 2 (Parker to Carleton). See bid item description 1.04 Parcel 1 – Wood Mulch.
- 2.06 Parcel 2 – 4' Wood Fence and Gate - Work includes labor, materials and equipment needed to perform the furnishing and install of 4' wood fence and gate as denoted in the plans and specifications including the requirements of specification section 06 2013 Exterior Finish Carpentry-Wood Fences at Parcel 2 (Parker to Carleton).
- 2.07 Parcel 2 – 5' Chain link Fences and Gates - Work includes labor, materials and equipment needed to perform the furnishing and install of chain link fence and gates as denoted in the plans and specifications including the requirements of specification section 32 3113 Chain Link Fence and Gates at Parcel 2 (Parker to Carleton).
- 2.08 Parcel 2 – Bench – Work includes labor, materials and equipment needed to perform the furnishing and install of benches as denoted in the plans and specifications including the requirements of specification section 12 9300 Site Furnishings at Parcel 2 (Parker to Carleton).
- 2.09 Parcel 2 – Waste Receptacle – Work includes labor, materials and equipment needed to perform the furnishing and install of waste receptacles as denoted in the plans and specifications including the requirements of specification section 12 9300 Site Furnishings at Parcel 2 (Parker to Carleton).
- 2.10 Parcel 2 – Bike Rack – Bike racks at Parcel 2 (Parker to Carleton). See bid item description 1.12 Parcel 1 – Bike Racks.
- 2.11 Parcel 2 – Dog Waste Bag Dispenser – Work includes labor, materials and equipment needed

to perform the furnishing and install of dog waste bag dispensers as denoted in the plans and specifications at Parcel 2 (Parker to Carleton).

2.13 Parcel 2 – Park Monument Sign – Work includes labor, materials and equipment needed to perform the furnishing and install of park monument sign as denoted in the plans and specifications at Parcel 2 (Parker to Carleton).

2.14a Parcel 2 – Soil Prep and Fine Grading – Work includes labor, materials, and equipment needed to perform the furnishing and install of soil prep and fine grading as denoted in the plans and specifications including the requirements of specification section 32 9000 Planting.

2.17 Parcel 2 – Sidewalk underdrain – Sidewalk underdrain at Parcel 2 (Parker to Carleton). See bid item description 1.05 Parcel 1 – Sidewalk underdrain.

2.18 Parcel 2 – Area Drain – Area Drain at Parcel 2 (Parker to Carleton). See bid item description 1.06 Parcel 1 – Area Drain.

2.19 Parcel 2 – Domestic Water Line and Connections – Domestic Water Line and Connections at Parcel 2 (Parker to Carleton). See bid item description 1.07 Parcel 1 – Domestic Water Line and Connections.

2.20 Parcel 2 – Drinking Fountain, Type C including drywell - Work includes labor, materials and equipment needed to perform the furnishing and install of drinking fountain, Type C including drywell as denoted in the plans and specifications including the requirements of specification section 12 9300 Site Furnishings at Parcel 2 (Parker to Carleton).

2.21 Parcel 2 – Pathway Light - Work includes labor, materials and equipment needed to perform the furnishing and install of pathway lights as denoted in the plans and specifications including the requirements of specification section 26 5600 Exterior Lighting at Parcel 2 (Parker to Carleton).

2.22 Parcel 2 – Pull Box - Work includes labor, materials and equipment needed to perform the furnishing and install of pull boxes as denoted in the plans and specifications including the requirements of specification sections 26 0000 General Electrical and 26 0500 Common Work Results at Parcel 2 (Parker to Carleton).

2.23 Parcel 2 – Onsite Conduit and Feeders - Work includes labor, materials and equipment needed to perform the furnishing and install of onsite conduit and feeders denoted in the plans and specifications including the requirements of specification sections 26 0000 General Electrical, 26 0126 Acceptance Testing of Electrical, 26 0500 Common Work Results for Electrical, 26 0519 Low-Voltage Electrical Power Conductors and Cables, and 26 0526 Grounding and Bonding for Electrical, 26 0553 Electrical Systems, and 31 2333 Utility Trenching and Backfilling at Parcel 2 (Parker to Carleton).

2.24 Parcel 2 – Conduit and Feeders across Carleton Street - Work includes labor, materials and equipment needed to perform the furnishing and install of conduit and feeders in the public-right-of-way across Carleton Street denoted in the plans and specifications including the requirements of specification sections 26 0000 General Electrical, 26 0126 Acceptance Testing of Electrical, 26 0500 Common Work Results for Electrical, 26 0519 Low-Voltage Electrical Power Conductors and Cables, and 26 0526 Grounding and Bonding for Electrical, 26 0553 Electrical Systems, and 31 2333 Utility Trenching and Backfilling at Parcel 2 (Parker to Carleton).

3.03 Parcel 3 – Rolled curb, painted red - Rolled curb, painted red at Parcel 3 (Carleton to Derby).

See bid item description 2.03 Parcel 2 – Rolled curb, painted red.

3.04 Parcel 3 – Concrete paving, Type A - Concrete paving, Type A at Parcel 3 (Carleton to Derby).
See bid item description 2.04 Parcel 2 – Concrete paving, Type A.

3.05 Parcel 3 – Concrete paving, Type B - Work includes labor, materials and equipment needed to perform the furnishing and install of concrete paving, Type B as denoted in the plans and specifications including the requirements of specification section 03 3000 Cast-In-Place Concrete and 32 1313 Concrete Paving at Parcel 3 (Carleton to Derby).

3.06 Parcel 3 – Concrete paving, Type C - Work includes labor, materials and equipment needed to perform the furnishing and install of concrete paving, Type C as denoted in the plans and specifications including the requirements of specification section 03 3000 Cast-In-Place Concrete and 32 1313 Concrete Paving at Parcel 3 (Carleton to Derby).

3.07 Parcel 3 – Permeable Pavers - Work includes labor, materials and equipment needed to perform the furnishing and install of permeable pavers as denoted in the plans and specifications including the requirements of specification section 32 1400 Unit Pavers at Parcel 3 (Carleton to Derby).

3.08a Parcel 3 – Concrete Band - Work includes labor, materials and equipment needed to perform the furnishing and install of concrete bands as denoted in the plans and specifications including the requirements of specification section 03 3000 Cast-In-Place Concrete, 04 2200 Concrete Masonry, and 32 1313 Concrete Paving at Parcel 3 (Carleton to Derby).

3.09 Parcel 3 – Bench - Benches at Parcel 3 (Carleton to Derby). See bid item description 2.08 Parcel 2 – Bench.

3.10 Parcel 3 – Waste Receptacle – Waste receptacles at Parcel 3 (Carleton to Derby). See bid item description 2.09 Parcel 2 – Waste receptacle.

3.11 Parcel 3 – Bike rack – Bike racks at Parcel 3 (Carleton to Derby). See bid item description 2.10 Parcel 2 – Bike rack.

3.12 Parcel 3 – Child's Bike rack – Work includes labor, materials and equipment needed to perform the furnishing and install of child's bike racks as denoted in the plans and specifications including the requirements of specification section 12 9300 Site Furnishings at Parcel 3 (Carleton to Derby).

3.13 Parcel 3 – Picnic table – Work includes labor, materials and equipment needed to perform the furnishing and install of picnic tables as denoted in the plans and specifications including the requirements of specification section 12 9300 Site Furnishings at Parcel 3 (Carleton to Derby).

3.17 Parcel 3 – Park monument sign – Park monument sign at Parcel 2 (Parker to Carleton). See bid item description 2.13 Parcel 2 – Park monument sign.

2.14a Parcel 3 – Soil Prep and Fine Grading – Soil prep and fine grading at Parcel 3 (Parker to Carleton). See bid item description 2.14a Parcel 2 – Soil Prep and Fine Grading.

3.21 Parcel 3 – Native mow free sod – Work includes labor, materials and equipment needed to furnish and install native mow free sod as denoted in the plans and specifications including the requirements of specification section 32 9000 Planting at Parcel 3 (Carleton to Derby).

3.23 Parcel 3 – Sidewalk underdrain – Sidewalk underdrain at Parcel 3 (Carleton to Derby). See bid

item description 1.05 Parcel 1 – Sidewalk underdrain.

- 3.24 Parcel 3 – Area Drain – Area Drain at Parcel 3 (Carleton to Derby). See bid item description 1.06 Parcel 1 – Area Drain.
- 3.25 Parcel 3 – Domestic Water Line and Connections – Domestic Water Line and Connections at Parcel 3 (Carleton to Derby). See bid item description 1.07 Parcel 1 – Domestic Water Line and Connections.
- 3.26 Parcel 3 – Drinking Fountain, Type A including drywell - Work includes labor, materials and equipment needed to perform the furnishing and install of drinking fountain, Type A including drywell as denoted in the plans and specifications including the requirements of specification section 12 9300 Site Furnishings at Parcel 3 (Carleton to Derby).
- 3.27 Parcel 3 – Pathway Light – Pathway light at Parcel 3 (Carleton to Derby). See bid item description 2.21 Parcel 2 – Pathway Light.
- 3.27a Parcel 3 – Service meter pedestal - Work includes labor, materials and equipment needed to perform the furnishing and install of the service meter pedestal in the plans and specifications including the requirements of specification sections 26 0000 General Electrical, 26 0126 Acceptance Testing of Electrical, 26 0500 Common Work Results for Electrical, 26 0519 Low-Voltage Electrical Power Conductors and Cables, and 26 0526 Grounding and Bonding for Electrical, and 26 0553 Electrical Systems at Parcel 3 (Carleton to Derby).
- 3.28 Parcel 3 – Pull Box – Pull box at Parcel 3 (Carleton to Derby). See bid item description 2.22 Parcel 2 – Pull Box.
- 3.29 Parcel 3 – Onsite Conduit and Feeders - Onsite Conduit and Feeders at Parcel 3 (Carleton to Derby). See bid item description 2.23 Parcel 2 – Onsite Conduit and Feeders.
- 3.30 Parcel 3 – Conduit and Feeders across Derby Street - Conduit and Feeders across Derby Street at Parcel 3 (Carleton to Derby). See bid item description 2.24 Parcel 2 – Conduit and Feeders across Carleton Street.
- 3.30a Parcel 3 – 3" conduit for PG&E connection – 3" conduit installed from the PG&E power pole to the service meter pedestal per the PG&E Greenbook.
- 4.03 Parcel 4 – Rolled curb, painted red - Rolled curb, painted red at Parcel 4 (Derby to Ward). See bid item description 2.03 Parcel 2 – Rolled curb, painted red.
- 4.04 Parcel 4 – Concrete paving, Type A - Concrete paving, Type A at Parcel 4 (Derby to Ward). See bid item description 2.04 Parcel 2 – Concrete paving, Type A.
- 4.05 Parcel 4 – Stabilized Decomposed granite paving - Stabilized Decomposed granite paving at Parcel 4 (Derby to Ward). See bid item description 1.03 Parcel 1 – Stabilized Decomposed granite paving.
- 4.06 Parcel 4 – Permeable Pavers - Permeable pavers at Parcel 4 (Derby to Ward). See bid item description 3.07 Parcel 3 – Permeable Pavers.
- 4.07 Parcel 4 – Resilient rubber surfacing, color C - Resilient rubber surfacing, color C at Parcel 4 (Derby to Ward). See bid item description 3.08 Parcel 3 – Resilient rubber surfacing.

4.07a Parcel 4 – Wood Mulch Paving – Wood mulch paving at Parcel 4 (Derby to Ward). See bid item 1.04 – Parcel 1 – Wood Mulch Paving.

4.08a Parcel 4 – 5' Chain Link Fence and Gates – 5' chain link fence and gates at Parcel 4 (Derby to Ward). See bid item description 2.07 Parcel 2 – 5' Chain link Fence and Gates.

4.08 Parcel 4 – Picnic table - Picnic table at Parcel 4 (Derby to Ward). See bid item description 3.13 Parcel 3 – Picnic table.

4.09 Parcel 4 – Stump table - Work includes labor, materials and equipment needed to perform the furnishing and install of stump table as denoted in the plans and specifications at Parcel 4 (Derby to Ward).

4.11 Parcel 4 – Waste Receptacle – Waste receptacles at Parcel 4 (Derby to Ward). See bid item description 2.09 Parcel 2 – Waste receptacle.

4.12 Parcel 4 – Bike rack – Bike racks at Parcel 4 (Derby to Ward). See bid item description 2.10 Parcel 2 – Bike rack.

4.16 Parcel 4 – Park monument sign – Park monument sign at Parcel 4 (Derby to Ward). See bid item description 2.13 Parcel 2 – Park monument sign.

4.16a Parcel 4 – Shed – Work includes labor, materials and equipment needed to perform the furnishing and install of the 80-sf community garden shed as denoted in the plans and specifications including the requirements of specification 12 9300 Site Furnishings at Parcel 4 (Derby to Ward).

4.22a Parcel 4 – Soil Prep and Fine Grading – Soil prep and fine grading at Parcel 4 (Derby to Ward). See bid item description 2.14a Parcel 2 – Soil Prep and Fine Grading.

4.25 Parcel 4 – Native mow free sod – Native mow free sod at Parcel 4 (Derby to Ward). See bid item description 3.21 Parcel 3 – Native mow free sod.

4.28 Parcel 4 – Sidewalk underdrain – Sidewalk underdrain at Parcel 4 (Derby to Ward). See bid item description 1.05 Parcel 1 – Sidewalk underdrain.

4.29 Parcel 4 – Area Drain – Area Drain at Parcel 4 (Derby to Ward). See bid item description 1.06 Parcel 1 – Area Drain.

4.30 Parcel 4 – Domestic Water Line and Connections – Domestic Water Line and Connections at Parcel 4 (Derby to Ward). See bid item description 1.07 Parcel 1 – Domestic Water Line and Connections.

4.31 Parcel 4 – Domestic Water Valves and Valve Boxes – Domestic Water Valves and Valve Boxes at Parcel 4 (Derby to Ward). See bid item description 1.08 Parcel 1 – Domestic Water Valves and Valve Boxes.

4.32 Parcel 4 – Drinking Fountain, Type B including drywell - Work includes labor, materials and equipment needed to perform the furnishing and install of drinking fountain, Type B including drywell as denoted in the plans and specifications including the requirements of specification section 12 9300 Site Furnishings at Parcel 4 (Derby to Ward).

4.32a Parcel 4 – Hose Bibbs – Hose bibbs at Parcel 4 (Derby to Ward). See bid item description 1.09 Parcel 1 – Hose Bibbs.

4.33 Parcel 4 – Pathway Light – Pathway light at Parcel 4 (Derby to Ward). See bid item description 2.21 Parcel 2 – Pathway Light.

4.34 Parcel 4 – Pull Box – Pull box at Parcel 4 (Derby to Ward). See bid item description 2.22 Parcel 2 – Pull Box.

4.35 Parcel 4 – Onsite Conduit and Feeders - Onsite Conduit and Feeders at Parcel 4 (Derby to Ward). See bid item description 2.23 Parcel 2 – Onsite Conduit and Feeders.

C. Bid Alternates:

1. Parcel 1 – community garden shed, bulk storage, and garden work bench. Community garden shed, bulk storage, and garden work bench at Parcel 1 (Blake to Parker) as shown in the plans. Contractor shall furnish and install all work per the plans and specifications.
2. Parcel 1 – in ground beds, picnic tables, and cold frames. In ground beds (including planting soil mix), picnic tables, and cold frames at Parcel 1 (Blake to Parker) as shown in the plans. Contractor shall furnish and install all work per the plans and specifications including the requirements of specification section 12 9300 Site Furnishings.
3. Parcel 2 – freestanding logs. Freestanding logs at Parcel 2 (Parker to Carleton) as shown in the plans. Contractor shall furnish and install all work per the plans and specifications.
4. Parcel 4 – accessible cold frame, bulk material storage, garden trellis, and ADA picnic table. Accessible cold frame, bulk material storage, garden trellis, and ADA picnic table at Parcel 4 (Derby to Ward) as shown in the plans. Contractor shall furnish and install all work per the plans and specifications including the requirements of specification section 12 9300 Site Furnishings.
5. Parcels 2 thru 4 – conduit and feeders for pathway lights. Conduit and feeders for pathway lights at Parcels 2 through 4, between Parker to Ward Street. Contractor shall furnish and install all work, including trenching, wiring, and related site work per the plans and specifications including the requirements of specification sections 26 0000 General Electrical, 26 0126 Acceptance Testing of Electrical, 26 0500 Common Work Results for Electrical, 26 0519 Low-Voltage Electrical Power Conductors and Cables, 26 0526 Grounding and Bonding for Electrical, and 26 0553 Electrical Systems, and 26 5600 Exterior Lighting. Contractor shall furnish and install a 3” conduit from the PG&E pole on Derby Street to the meter pedestal per the PG&E Greenbook.

1.04 CONTRACT DOCUMENT ORGANIZATION

- A. The Drawings illustrate locations, arrangements, dimensions, and details to determine the general character of the Work. Parts not detailed shall be subject to the Architect’s approval. Where reasonably inferable that a Drawing illustrates only part of a given work on a number of items, the remainder shall be deemed repetitious and so construed. Drawings of greater scale take precedence over Drawings of lesser scale. Do not scale documents.

- B. Drawings indicate general arrangement and location of such items as piping, conduit, apparatus, and equipment. Drawings and Specifications are for guidance of the Contractor and exact locations, distances, and levels will be governed by building site and actual building conditions. The Contractor shall make minor changes, as directed, to arrangements or locations shown in order to meet Structural or Architectural conditions.
- C. Specifications describe performances and qualities required of materials and of methods. Items listed under each Section of the Specifications are not necessarily all inclusive. The Contractor shall be responsible for the complete work.
- D. For convenience, Specifications are separated into topical divisions of work, each of which is further related to topical divisions under which it occurs. Such separation shall not be construed as an attempt by the Architect to establish limits of any agreements between the Contractor and his/her subcontractors.
- E. Portions of these Specifications are of abbreviated, simplified type and may include incomplete sentences.
 - 1. Omissions of words or phrases such as “the Contractor shall”, “in conformity with”, “shall be”, “as noted on the Drawings”, “in accordance with the details”, “a”, “the”, “all”, “any”, and “each” are intentional. Omitted words or phrases shall be supplied by inference.
 - 2. Terms such as “approved”, “or approved equal”, “as directed”, “as required”, “as provided”, “acceptable”, and “satisfactory” mean by or to the Architect or the City.
 - 3. Furnish: The term furnish means supply and deliver to the Project Site, ready for unloading, unpacking, assembly, installation, and similar operations.
 - 4. Install: The term install describes operations at the Project Site, including the actual unloading, unpacking, assembly, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar ions.
 - 5. Provide: The term provide means to furnish and install, complete and ready for the intended use.
- F. Reference Standards
 - 1. For products specified by association or trade standards, comply with requirements of the standard except where more rigid requirements are specified or are required by applicable codes.
 - 2. The date of the standard is that in effect as of bid date except where specific date is specified

1.05 MAINTENANCE

- A. Cost of maintenance of systems and equipment prior to Final Acceptance will be considered as included in prices bid and no direct or additional payment will be made therefor.

1.06 WORK UNDER OTHER CONTRACTS

- A. Specification No. 26-11756-C Remediation, Demolition and Perimeter Fencing will be complete prior to the start of this contract.

1.07 FUTURE WORK

- A. None expected

1.08 WORK SEQUENCE

- A. Construct Work in stages and at times to accommodate City operation requirements during the construction period; coordinate construction schedule and operations with City.
- B. **Special operational constraints include the following:**

1. Mobilization and start of construction must occur after the completion of construction activities under Specification No. 26-11756-C Remediation, Demolition and Perimeter Fencing.
2. Material submittals shall be submitted within 10 days of the executed contract, or at least 30 days prior to when the material is needed at the job site.
3. The following items have an anticipated lead time. The contractor shall plan accordingly to submit material submittals for review and approval by the City in advance of the work and when the material is needed on site.
 - a. Play equipment
 - b. Fitness equipment
 - c. Permeable pavers
 - d. Pathway lights
 - e. Benches
 - f. Drinking fountains
 - g. Other furnishings
4. The following items have an anticipated lead time. The contractor shall plan accordingly to submit material submittals for review and approval by the City in advance of the work and when the material is needed on site.

1.09 WORK DAYS AND HOURS

- A. Work Days and hours: Monday-Friday inclusive, **7:00 a.m.-5:00 p.m.** local time.
- B. Work at the Site on weekends or holidays is not permitted, unless Contractor requests otherwise from City in writing at least 48 hours in advance and City approves in its sole discretion.

1.10 SHUTDOWN FOR DISCOVERY OF CULTURAL RESOURCES

- A. If discovery is made of items of historical archaeological or paleontological interest, immediately cease all Work in the area of discovery. Archaeological indicators may include, but are not limited to, dwelling sites, locally darkened soils, stone implements or other artifacts, fragments of glass or ceramics, animal bones, human bones, and fossils. After cessation of excavation, immediately contact City. Do not resume Work until authorization is received from City. When resumed, excavation or other activities shall be as directed by City.

1.11 COOPERATION OF CONTRACTOR AND COORDINATION WITH OTHER WORK

- A. Coordinate with City and any City forces, or other contractors and forces, as required by Document 00 7200 (General Conditions).

1.12 PARTIAL OCCUPANCY/UTILIZATION REQUIREMENTS

- A. Allow City to take possession of and use any completed or partially completed portion of the Work during the progress of the Work as soon as is possible without interference to the Work.
- B. Possession, use of Work, and placement and installation of equipment by City shall not in any way evidence the completion of the Work or any part of it.
- C. Contractor shall not be held responsible for damage to the occupied part of the Work resulting from City occupancy.
- D. Make available, in areas occupied, on a 24 hour per day and 7 day per week basis if required, any utility services, heating, and cooling in condition to be put in operation at the time of occupancy.
 1. Responsibility for operation and maintenance of said equipment shall remain with Contractor.

2. Make, and City shall certify, an itemized list of each piece of equipment so operated with the date operation commences.
3. Itemized list noted above shall be basis for commencement of warranty period for equipment.
4. City shall pay for utility cost arising out of occupancy by City during construction.
- E. Use and occupancy by City prior to acceptance of Work does not relieve Contractor of its responsibility to maintain insurance and bonds required under the Contract until entire Work is completed and accepted by City.
- F. Prior to date of Final Acceptance of the Work by City, all necessary repairs or renewals in Work or part thereof so used, not due to ordinary wear and tear, but due to Defective materials or workmanship or to operations of Contractor, shall be made at expense of Contractor, as required in Document 00 7200 (General Conditions).
- G. Use by City of Work or part thereof as contemplated by this Section 01 1100 shall in no case be construed as constituting acceptance of Work or any part thereof. Such use shall neither relieve Contractor of any responsibilities under Contract, nor act as waiver by City of any of the conditions thereof.
- H. City may specify in the Contract Documents that portions of the Work, including electrical and mechanical systems or separate structures, shall be substantially completed on dates described in this Section 01 1100, if any, prior to Substantial Completion of all of the Work. Notify City in writing when Contractor considers any such part of the Work ready for its intended use and Substantially Complete and request City to issue a Certificate of Substantial Completion for that part of the Work.

1.13 CONTRACTOR USE OF SITE

- A. Access is available to the Site from **Blake Street, Acton, Street, Parker Street, Carleton Street, Derby Street, and Ward Street**. Contractor shall insert Contractor's own lock in series and ensure that the entrance is locked at the end of each work day and at other times as may be necessary to control unauthorized entry.
- B. Confine operations at Site to areas permitted by Contract Documents, permits, ordinances, and laws. Do not unreasonably encumber Site with materials or equipment.
- C. Assume full responsibility for protection and safekeeping of products stored on premises. Move any stored products that interfere with operations of City or other contractor.
- D. Coordinate parking, storage, staging, and Work areas with City. City will review and approve the proposed storage area for Contractor's equipment and materials. Do not store construction materials in the dripline of any tree.
- E. Prior to commencement of Work or excavation, Contractor and City shall jointly survey the area adjacent to the Project area making permanent note and record of such existing damage such as cracks, sags or other similar damage. This record shall serve as a basis for determination of subsequent damage to structures, conditions or other existing improvements due to Contractor's operations. All parties making the survey shall sign the official record of existing damage. Cracks, sags or damage of any nature to the adjacent Project area, not noted in the original survey but subsequently noted, shall be reported immediately to City.
- F. The Contractor shall follow all city ordinances in force during the duration of this Contract.
- G. It is essential that the Contractor perform the Work with as little interference and disturbance as possible to the surrounding neighborhood.
- H. When suspect materials, outside the scope of Work, are encountered during the Work or restoration process, the Contractor shall immediately contact the Project Manager for evaluation and approval of the methods for dealing with the material.

1.14 AIR QUALITY STANDARDS

- A. Ensure that idling time for all heavy equipment is minimized to reduce on-Site emissions.
- B. Maintain equipment in good mechanical condition.
- C. Cover trucks hauling dirt.
- D. Limit dust emissions during periods of high winds (greater than 15 miles per hour).
- E. Replace ground cover in disturbed areas as soon as possible.
- F. Enclose, cover, water, or apply soil binders to exposed stockpiles.
- G. Remove earth tracked onto neighboring paved roads at least once daily.
- H. Limit equipment speed to 10 miles per hour in unpaved areas.

1.15 CONSTRUCTION STAKING, MONUMENT PROTECTION AND REPLACEMENT

- A. Notify City at least three (3) Business Days prior to the need for initial staking. City will provide engineering surveys, City benchmarks, corner records, reference points, and/or monument cards that in City's judgment are necessary to establish site elevations for the Contractor to establish construction stakes in order to enable Contractor to proceed with the Work.
- B. If Contractor finds any additional information is necessary, notify City in writing 2 Business Days in advance. City shall have no liability for any inadequacy unless Contractor notifies City and City fails to cure within 3 Business Days of such notice.
- C. Contractor shall be responsible for laying out the Work and provide all construction staking. Contractor shall replace or repair construction stakes at own expense.
- D. Contractor shall perform brush clearing and traffic control, as necessary, in City's sole judgment.
- E. The Contractor shall protect and preserve all existing survey monuments, benchmarks, reference points, property monuments and stakes.
- F. Whenever Contractor knows or reasonably should know that any Work activity is likely to damage or destroy any survey monuments, benchmarks, reference points, property monuments, or construction stakes, or require relocation because of necessary changes in grades or locations, provide at least 3 Business Days advance notice to City. Survey monuments, benchmarks, reference points and property monuments shall not be disturbed until authorized by the City.
- G. Whenever the Contractor disturbs or removes any survey monuments, benchmarks, reference points, or property monuments, the Contractor shall replace the monument in accordance with City Standard Plan 8090 or City Standard Plan 8091, as applicable. Standard Plans are available upon request. Monument casings (boxes and lids) shall be provided by the Contractor, and dome brass markers shall be supplied by the City.
- H. In the event that any non-referenced monuments become in danger of being disturbed due to construction, the Contractor shall cease the threatening activity and notify the City immediately. Response to endangered monuments is a priority call, and each monument shall be referenced in accordance with the City of Berkeley Monument Reference Guidelines, available upon request. In no case may an unreferenced monument be damaged during construction.
- I. Should any monument not designated for replacement sustain damage during construction, the Contractor shall bear the expense for rebuilding it as well as for the survey work the City survey crew or its survey consultant must perform in the process. In any instance where the City deems a damaged monument to be irreplaceable, the contractor shall be fined \$20,000 per monument.
- J. Monument replacement must be done in a neat, workman-like manner. Pavement cuts shall be accurate, with vertical cuts to exact dimensions as shown on the Standard Plans. Monument boxes and lids shall be placed at the proper finished grade and as detailed by Standard Plan

8090 or Standard Plan 8091. Existing monument lids shall be salvaged by the Contractor and delivered to the City.

- K. Each replacement monument shall be constructed such that the center of the dome brass marker is set within 0.04 foot of the referenced position. The new dome brass marker shall not receive final punching prior to seven (7) calendar days after completion of the monument construction.
- L. In any event, notify City whenever any survey monuments, benchmarks, reference points, or property monuments are lost or destroyed or require relocation because of necessary changes in grades or locations.
- M. If the City has elected to reference known monuments around or within the project site, a copy of the corner records for the referenced monuments shall be provided to the Contractor prior to the start of construction. For each monument that has been disturbed or removed, the replacement monument location(s) will be established by the City's survey crew or its survey consultant after final pavement is completed and upon request by the Contractor.
- N. All City of Berkeley Monuments located within the project area must be referenced, prior to work commencing, by a licensed land surveyor as required by Section 8771 of the Business and Professions Code. Corner Records of this work must be submitted for filing to both the County Surveyor of Alameda County, and the City of Berkeley, Public Works Department, Engineering Division, Survey Section.
- O. Illegible survey requests or requests without proper notification (at least 3 Business Days in advance), may result in delayed response. No extension of Contract Time will be allowed due to such delays.

1.16 GEOTECHNICAL DATA AND EXISTING CONDITIONS

- A. Available Documentation: In accordance with, and subject to, the provisions of Document 00 3132 (Geotechnical Data and Existing Conditions), the following documentation is available for review. This information is not part of the Contract Documents.
 - 1. **Supplemental Geotechnical Recommendations, Santa Fe Trackbed to Park Conversion Project**
Berkeley, CA
ENGEO
February 27, 2025
 - 2. **Geotechnical Exploration, Santa Fe Trackbed to Park Conversion Project**
Berkeley, CA
ENGEO
November 18, 2022, Revised January 6, 2023

1.17 PROTECTION OF EXISTING STRUCTURES AND UNDERGROUND FACILITIES

- A. The Drawings may indicate existing above- and below-grade structures, drainage lines, storm drains, sewers, water lines, gas lines, electrical lines, hot water lines, and other similar items and Underground Facilities that are known to City. At least (2) two Business Days, or as otherwise noted, prior to commencement of excavation, notify the owners of the following Underground Facilities:
 - 1. **Water lines:** EBMUD
 - 2. **Sewer lines:** Berkeley Public Works Department
 - 3. **Telephone Conduit:** Telephone Provider
 - 4. **Cable:** Cable Provider
 - 5. **Electrical Lines:** PG&E

6. **Gas Lines:** PG&E

- B. Where overhead service to a structure, known to receive service, does not exist, then underground service shall be assumed to exist.
- C. Attention is also directed to the existence of overhead power and telephone lines.
- D. Perform pot-holing by hand within 24 inches (in any direction) of the Underground Facilities. This may be done on an area-by-area basis, but shall be accomplished at least 7 calendar days in advance of the date of construction within such area.
- E. No attempt has been made to locate utilities on private property such as sprinkler irrigation systems or electrical conduits on the project site or adjacent property. Contractor is responsible for contacting all property owners as necessary, and locating and marking utilities in the vicinity of the work prior to construction.
- F. In addition to reporting, if a utility is damaged, Contractor must take appropriate action as provided in Document 00 7200 (General Conditions).
- G. Additional compensation or extension of time on account of utilities not indicated or otherwise brought to Contractor's attention including reasonable action taken to protect or repair damage shall be determined as provided in Document 00 7200 (General Conditions).

1.18 PERMITS

- A. Permits, agreements, or written authorizations that are known by City to apply to this Project are listed below:
 - 1. Storm Water Pollution Prevention
 - 2. Cal/OSHA Permit. Obtain, as applicable, permit(s) as required by Cal/OSHA for the following:
 - a. Construction of trenches or excavations that are five feet or more in depth and into which a person is required to descend.
 - b. Construction or demolition of any building, structure, or scaffolding for falsework more than three stories high, or the equivalent height (36 feet).
 - c. Erection or dismantling of vertical shoring systems more than three stories high, or the equivalent height (36 feet).
 - 3. The local Cal/OSHA district office is located at:
 - CAL/OSHA Headquarters
 - 1515 Clay Street, Suite 1303
 - Oakland, CA 94612
 - (510) 622-2916
- B. All other permits that may be required, such as electrical, mechanical, fire prevention, irrigation, grading, slope protection, tree cutting, etc., have not been applied for and shall be obtained by Contractor. Applicable permit fees will be reimbursed to the extent specified in Document 00 7200 (General Conditions).

1.19 ACTUAL DAMAGES FOR PERMIT VIOLATIONS

- A. In addition to damages which are impracticable or extremely difficult to determine, for which liquidated damages will be assessed as described in Document 00 5200 (Agreement) and Document 00 7200 (General Conditions), City may incur actual damages, including fines imposed by any regulatory agency, resulting from **loss of use of use, or from** use in violation of legal or regulatory requirements where the violations result from Contractor's activities. Continuous operation in compliance with legal or regulatory requirements is essential to avoid discharges that would violate applicable regulations. Violations or threatened violations may subject City to fines

and/or other costs or civil liabilities.

- B. Contractor shall be liable for and shall pay City the amount of any actual losses in addition to liquidated damages or other remedies provided by the Contract Documents.
- C. The amount of liquidated damages provided in Document 00 5200 (Agreement) and Document 00 7200 (General Conditions) is not intended to include, nor does the amount include, any damages incurred by City for reasons other than those listed in that paragraph. Any money due or to become due to Contractor may be retained by City to cover both the liquidated and the actual damages described above and, should such money not be sufficient to cover such damages, City shall have the right to recover the balance from Contractor or its sureties.

PART 2 - PRODUCTS

2.01 REFERENCE STANDARDS

- A. For products specified by association or trade standards, comply with requirements of standard, except where more rigid requirements are specified or are required by applicable codes.

2.02 PRODUCTS ORDERED IN ADVANCE

- A. As provided in Document 00 7200 (General Conditions) and Section 01 2000 (Measurement and Payment), and subject to all other provisions of the Contract Documents, City will pay for the following materials and equipment prior to incorporation into the Work:

- 1. **N/A**

2.03 CITY-FURNISHED PRODUCTS

- A. City-Furnished Products:

- 1. **N/A**

- B. City's Responsibilities:

- 1. Arrange for and deliver City-reviewed Shop Drawings, Product Data, and Samples, to Contractor.
- 2. Arrange and pay for delivery to Site.
- 3. On delivery, inspect products jointly with Contractor.
- 4. Submit claims for transportation damage and replace damaged, Defective, or deficient items.
- 5. Arrange for manufacturers' warranties, inspections, and service.

- C. Contractor's Responsibilities:

- 1. Review City-reviewed Shop Drawings, Product Data, and Samples.
- 2. Receive and unload products at Site; inspect for completeness or damage jointly with City.
- 3. Handle, store, install, and finish products.
- 4. Repair or replace items damaged after receipt.
- 5. Install into Project per Contract Documents.

PART 3 - EXECUTION – NOT USED

END OF SECTION

DIVISION 32 EXTERIOR IMPROVEMENTS

SECTION 32 3113

CHAIN LINK FENCE AND GATES

PART 1 - GENERAL**1.01 WORK INCLUDED**

- A. Furnish all labor, materials, tools and equipment necessary to install al chain link fencing and gates as indicated on the plans and as specified herein; including components and accessories required for a complete installation, including but not limited to the following components:
 - 1. Chain link fencing
 - 2. Chain link gates

1.02 RELATED SECTIONS

- A. 03 3000: Cast-In-Place Concrete
- B. 31 3000: Earthwork and Grading

1.03 REFERENCES

- A. ASTM A121 Specification for Metallic-Coated Carbon Steel Barbed Wire
- B. ASTM A392 Specification for Zinc-Coated Steel Chain-Link Fence Fabric
- C. ASTM A780 Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings
- D. ASTM F552 Standard Terminology Relating to Chain Link Fencing
- E. ASTM F567 Standard Practice for Installation of Chain Link Fence
- F. ASTM F626 Specification for Fence Fittings
- G. ASTM F900 Specification for Industrial and Commercial Swing Gates
- H. ASTM F1043 Specification for Strength and Protective Coatings of Steel Industrial Chain Link Fence Framework
- I. ASTM F1083 Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures
- J. ASTM F1184 Specification for Industrial and Commercial Horizontal Slide Gates
- K. ASTM F2200 Specification for Automated Vehicular Gate Construction
- L. UL325 Automatic operators: Door, Drapery, Gate, Louver and Window
- M. A653/A653M Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
- N. A1008/A1008M Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High- Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable
- O. A1011/A1011M Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low- Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength

- P. B117 Practice for Operating Salt Spray (Fog) Apparatus
- Q. D523 Test Method for Specular Gloss
- R. D714 Test Method for Evaluating Degree of Blistering of Paints
- S. D1654 Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments
- T. D2244 Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates
- U. D2794 Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)
- V. D3359 Test Methods for Measuring Adhesion by Tape Test
- W. E4 Practices for Force Verification of Testing Machines
- X. F2814 Guide for Design and Construction of Ornamental Steel Picket Fence Systems for Security Purposes
- Y. F2408 Standard Specification for Ornamental Fences Employing Galvanized Steel Tubular Pickets.

1.04 SUBMITTALS

- A. Submit in accordance with Section 01 33 00.
 - 1. Product Data: Material descriptions, dimension of individual components and profiles, and finishes for the following: color, size, finish, material and method of attachment. Include the manufacturer's name and catalog number for each item where applicable. Clearly identify which portions of the information on the printed literature are applicable if more than one product is shown.
- B. Shop drawings to show the following:
 - 1. All information regarding clearances, connections, components and any miscellaneous related appurtenances.
 - 2. Concrete footing and reinforcement information.
 - 3. Indicate materials, dimensions, sizes, weights and finishes of components. Include plans, elevations, sections and other required installation and operational clearances, connections, components and miscellaneous related appurtenances such as locking devices.
 - 4. Include plans, elevations, sections, gate swing direction and other required installation and operational clearances, and details of post anchorage, attachment and bracing.
 - 5. Show required field measurements and interface with work of other Sections. provide details showing interface and anchorage of fencing and gates with adjacent construction. Show locations of step downs of fencing, all top of fencing to be level, and step downs to occur at maximum of 6" dimension unless otherwise proposed and approved by installer.
 - 6. Details showing post anchorage, attachment and bracing. Provide setting drawings, templates, instructions, and directions for installation of anchorage devices.
 - 7. Details of gates and hardware.
 - 8. Welds, both shop and field, to be indicated by AWS "Symbols for Welding, Brazing and Nondestructive Examination," A2.4.
- C. Material samples: Sample for each type of product specified showing finish and color, for paint finishes and vinyl provide color chip sample.

- D. Provide shop drawings and engineering calculations as required for approvals if not provided. Include the foundations, footing depths, and reinforcements necessary for structural stability. Drawings to show safety zone. Drawings must be signed by a Civil Engineer or Structural Engineer registered in the State of California and must conform to the California of Division of State Architects.
- E. Qualification Data: For firms and persons specified in "Quality Assurance" article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other specified information.
- F. Maintenance data for fencing and gates: Include in maintenance manuals. Include Product Data for care of products used or recommended by Installer and names, addresses, and telephone numbers of local sources for products.
- G. Warranty information for each fence and gate type. Warranty all furnishing, components and workmanship to remain free of defects due to faulty materials or workmanship, corrosion, or deterioration for a period of 24 months after the date of completion and Final Acceptance, supplemental coverage if offered is enforced, unless otherwise stated.

1.05 QUALITY ASSURANCE

- A. Except as otherwise specified, comply with Chain Link Fence Manufacturers Institute (CLFMI) Product Manual.
- B. Industry Standards: Materials and installation to conform to the requirements of the Chain Link Fence Manufacturers Institute (CLFMI) "Product Manual."
- C. Regulatory Requirements: Pedestrian gates and related hardware to comply with applicable codes, including provisions for accessibility required by CBC Chapters 10 and 11B, Part 2; and the Americans with Disabilities Act (ADA) Standards for Accessible Design, and California Division of State Architects (DSA).
- D. Bottom 10 inches of pedestrian gates to have a smooth uninterrupted surface.
- E. Installer Qualifications: An experienced installer who has completed installations of fences and gates similar in material, design, and extent to those indicated for this project and whose work has resulted in construction with a record of successful in-service performance.
- F. Source Limitations for Fences and Gates: Obtain each color, grade, finish, type, and variety of components for fences and gates from one source with resources to provide fences and gates of consistent quality in appearance and physical properties.
- G. Field Measurements: Verify dimensions with work of other sections that adjoins the Wire Mesh Fencing.
- H. Field Measurements: Verify layout information for fences and gates shown on drawings in relation to property survey and existing structures. Verify dimensions by field measurements.
- I. If any conflicts between design and actual on-site conditions are encountered, Shop Drawings showing the nature and location of conditions shall be submitted to the Engineer for determination, prior to fabrication of Fencing and Gates
- J. Shop Assembly: Insofar as practicable, fitting and assembly of work shall be done in shop.
- K. Work that cannot be permanently shop assembled, shall be completely assembled, marked, and disassembled in shop before shipment to insure proper field assembly.
- L. Shop fabricated items shall properly fit in the field condition. In event that shop-fabricated items do not fit the field condition, the item shall be returned to the shop for correction.

1.06 DEFINITIONS

- A. The "Owner's Representative" is the person, appointed by the Owner, to represent their interests. The Owner's Representative will be on site frequently and regularly during construction. Where

needed, the Owner’s Representative will identify the need for field visits by the landscape architect or other consultants.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Finished materials: Protect existing finishes and new Fencing finishes against soiling, staining or damage from scratches and abrasion. Maintain protection during construction and until Final Occupancy.

1.08 SUBSTITUTION OF PRODUCTS

- A. To enable all bids to be judged equitably, they shall be based on the specified products in this document and shown on the drawings:
- B. The proposal for any substitute products must identify the substitution product by its trade name along with any savings it may represent.
- C. All substitutions approval requests shall be accompanied by manufacturing drawings and specifications, and they meet all specifications for design, size gauge of metal parts and fabrication.
- D. Products from other qualified manufacturers: Will have ten years or more experience manufacturing steel ornamental picket fencing.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Framework, posts, rails, fabric, gates and fittings for chain link fence system: Merchants Metals, website: Tech-Info@merchantsmetals.com, telephone: (888) 260-1600
- B. All materials are as stated on the Drawings and as specified in the specifications.

2.02 CHAIN LINK FABRIC

- A. Galvanized Steel Chain Link Fabric: heights indicated on drawings.
- B. Zinc-Coated Steel Fabric:
 - 1. ASTM A392 hot dipped galvanized before weaving (GBW)
 - a. Class 1 - 1.2 oz/ft² (366 g/m²)
 - b. Class 2 - 2.0 oz/ft² (610 g/m²) <available 9 and 6 gauge>
 - 2. Fabric Selection Table: Steel chain link mesh sizes and gauges by supplier include the following:

Mesh Size In. (mm)	6 gauge core 0.192 in. 4.88 mm	9 gauge core 0.148 in. 3.76 mm	11 gauge core 0.120 in. 3.05 mm	11 1/2 gauge core 0.113 in. 2.87 mm	12 Gauge core 0.105 in. 2.67 mm	Notes
						N/A = Not applicable for
2 (50)	yes	yes	yes	N/A	N/A	industrial/commercial
1 ¾ (44)	yes	yes	yes	N/A	N/A	applications
1 (25)	N/M	yes	yes	N/A	N/A	N/M = Not manufactured
5/8 (16)	N/M	yes	yes	yes	yes*	*12 ga. only per F668
1/2 (13)	N/M	yes	yes	yes	yes*	
3/8 (10)	N/M	N/M	yes	yes	yes*	
	2170 lbf (9650 N)	1290 lbf (5740 N)	850 lbf (3780 N)	750 lbf (3340 N)	650 lbf (2895 N)	Wire Break Strength

3. Fabric selvage:
 - a. Standard fabric selvage for 2 in (50 mm) mesh is K&K for added safety for play and park applications
- C. Zinc-Coated Steel Fabric For Priva-Max Fencing
 1. ASTM A392 hot dipped galvanized before weaving (GBW) Priva-Max.
 2. Class 1 - 1.2 oz. /ft² with 3 1/2" X 5" mesh, 9 gauge, with a core wire diameter of 0.148" and a break load of 1290 lb./f.
 3. Fabric selvage: Standard fabric selvage knuckle finish top and bottom, K&K.
- D. Color Bond Polymer Coated Steel Fabric: ASTM F668, wire gauge specified is that of the metallic coated steel core wire. Class 2b fused and adhered. Color - black in compliance with ASTM F934.

2.03 ROUND STEEL PIPE FENCE FRAMEWORK

- A. Round steel pipe and rail for Galvanized Steel Pipe: Schedule 40 standard weight pipe, in accordance with ASTM F1083, 1.8 oz/ ft² (550 g/m²) hot dip galvanized zinc exterior and 1.8 oz/ft² (550 g/m²) hot dip galvanized zinc interior coating. High Strength Grade: Minimum yield strength 50,000 psi (344 MPa)
- B. Colorbond Polymer Coated Pipe: Polymer coated pipe shall have a Polyester coating fused and adhered to the exterior zinc coating of the galvanized pipe in accordance with ASTM F1043. The minimum thickness of the polyester coating is 3 mils. Color to match fabric (black) per ASTM F934.
- C. Framework Wind Load Caution: Fences containing windscreens or privacy slats (Priva-Max) and fences greater than 8 feet in height using, 1 in. mesh or smaller - recommend a wind load force analysis for post selection and post spacing. See Chain Link Manufactures Institute – Wind Load Guide CLFMI: WLG 2445. A interactive Wind load Fence Post Calculator is available at www.wheatland.com.

2.04 TENSION WIRE

- A. For Galvanized Steel Fencing: Metallic Coated Steel Marcellled Tension Wire: 7 gauge core (0.177 in.) marcellled wire complying with ASTM A824. Type II Zinc-Coated, ASTM A817 Class 5 - 2.0 oz/ft² (610 g/m²)
- B. For Colorbond Polymer Coated Steel Tension Wire: 7 gauge core (0.177 in.) wire complying with ASTM F1664. Match coating class and color to that of the chain link fabric. Class 2b, fused and adhered.

2.05 FITTINGS

- A. Tension and Brace Bands: Galvanized pressed steel complying with ASTM F626, minimum steel thickness of 12 gauge (0.105 in.), minimum width of 3/4 in. and minimum zinc coating of 1.20 oz/ft². Secure bands with 5/16 in. galvanized steel carriage bolts.
- B. Terminal Post Caps, Line Post Loop Tops, Rail and Brace Ends, Boulevard Clamps, Rail Sleeves: In compliance to ASTM F626, pressed steel galvanized after fabrication having a minimum zinc coating of 1.20 oz/ft² .
- C. Truss Rod Assembly: In compliance with ASTM F626, 3/8 in. or 5/16" diameter steel truss rod with a pressed steel tightener, minimum zinc coating of 1.2 oz/ft² , assembly capable of withstanding a tension of 2,000 lbs.
- D. Tension Bars: In compliance with ASTM F626. Galvanized steel one-piece length 2 in. less than the fabric height. Minimum zinc coating 1.2 oz. /ft² .
 1. Bars for 2 in. and 1 3/4 in. mesh shall have a minimum cross section of 3/16 in. by 3/4 in.

2. Bars for 1 in. mesh shall have a cross section of 1/4 in. by 3/8 in.
3. Small mesh 3/8 in. , 1/2 in. and 5/8 in. shall be attached (sandwiched) to the terminal post using a galvanized steel strap having a minimum cross section of 2 in. by 3/16 in. with holes spaced 15 in. on center to accommodate 5/16 in. carriage bolts which are to be bolted thru the strap the mesh and thru the terminal post.

2.06 TIE WIRE and HOG RINGS

- A. Basic commercial/industrial applications - specify 9 gauge core aluminum alloy ties and hog rings per ASTM F626.
- B. Priva-Max slats 9 gauge core (0.148)steel Galvanized Before Weave (GBW) with preformed power fastened wire ties and preformed hog rings having minimum zinc coating 1.20 oz/ft² per ASTM F626.

2.07 SWING GATES FOR GALVANIZED STEEL FENCING

- A. Swing Gates: Galvanized steel pipe welded fabrication in compliance with ASTM F900. Gate frame members 1.900 in. OD ASTM F1043 Group IC (LG-40) galvanized steel pipe. Frame members spaced no greater than 8 ft. apart vertically and horizontally. Welded joints protected by applying zinc-rich paint in accordance with ASTM Practice A780. Positive locking gate latch, pressed steel galvanized after fabrication. Galvanized malleable iron or heavy gauge pressed steel post and frame hinges. Provide lockable drop bar and gate holdbacks with double gates.
- B. Gateposts: Regular Grade ASTM F1083 Schedule 40 pipe

Gate fabric height up to and including 6 ft. (1.2m)		
Gate leaf width	Post Outside Diameter	Weight
up to 4 ft. (1.2 m)	2.375 in. (60.3 mm)	3.65 lb/ft (5.4 kg/m)
over 4 ft. to 10 ft. (1.2 to 3.05 m)	2.875 in. (73.0 mm)	5.79 lb/ft (8.6 kg/m)
over 10 ft. to 18 ft. (3.05 to 5.5 m)	4.000 in. (101.6 mm)	9.11 lb/ft (13.6 kg/m)
Gate fabric height over 6 ft. to 12 ft. (1.2 to 2.4m)		
Gate leaf width		
up to 6 ft. (1.8 m)	2.875 in. (73.0 mm)	5.79 lb/ft (8.6 kg/m)
over 6 ft. to 12 ft. (1.8 to 3.7 m)	4.000 in. (101.6 mm)	9.11 lb/ft (13.6 kg/m)
over 12 ft. to 18 ft. (2.4 to 5.5 m)	6.625 in. (168.3 mm)	18.97 lb/ft (28.2 kg/m)
over 18 ft. to 24 ft. (5.5 to 7.3 m)	8.625 in. (219.1 mm)	28.58 lb/ft (42.5 kg/m)

- C. Colorbond Polymer coated gate frames and gateposts; match the coating type and color to that specified for the fence framework. Moveable parts such as hinges, latches and drop rods may be field coated using a liquid polymer touch up.
- D. Hinges and Locks
- E. Removable Mullion: Von Duprin 9852 for exterior use, or approved equivalent
- F. Hydraulic Gate Closer and Hinge: Locinox: P00009344 - Mammoth180
- G. Panic bars: Van Duprin 98/99 Series RIM exit device, 3' length. ⚠
- H. Trilogy lock:
 1. Network cylindrical pushbutton lock, 5000 users, 35,000 event audit trail, weatherproof, straight lever, satin chrome
 2. Weldable gate box, Simplex 1000, KABA Access 100/L1000/5000, Alarm Lock Trilogy DL2700/3000/PDL3000

2.08 CONCRETE FOOTINGS

- A. Concrete for post footings shall have a 28-day compressive strength of 2,500 psi.

PART 3 - EXECUTION**3.01 INSTALLATION**

- A. All parts and all members of the work of this section shall be the size, shape, and profile indicated by the Contract Documents and by the Manufacturer requirements.
- B. Methods of fabrication, assembly and erection, unless otherwise specifically stated, shall be at the discretion of the Contractor.
- C. Exposed Work: In addition to requirements specified herein or shown on drawings, all surfaces exposed to view shall be clean, and free from dirt, stains, grease, scratches, distortions, waves, dents, buckles, tool marks, burrs, and other defects which mar appearance of finished work.
- D. Metal work exposed to view shall be straight and true to line or curve, smooth arises and angles as sharp as practicable without draft, miters formed in true alignment, profiles accurately intersecting, and with joints carefully matched to produce continuity of line and design.
- E. Exposed fastenings, where permitted by Engineer, shall be of the same material, color, and finish as the metal to which applied, unless otherwise indicated, and shall be of the smallest practicable size.
- F. Structural/ Loading Criteria: Install Fencing to provide items with capabilities to safely sustain or withstand stresses and strains to which materials and assembled work will be subjected. Comply with project loading and structural criteria and local building code authorities.

3.02 FRAMEWORK INSTALLATION

- A. Posts: Posts shall be set plumb in concrete footings in accordance with ASTM F567. Minimum footing depth, 24 in. plus an additional 3 in. depth for each 1 ft. increase in the fence height over 4 ft. See structural drawings and geotechnical report for final recommendations.
- B. Top of concrete footing to be as shown on the drawings, or crowned to shed water away from the post when in landscape areas or under permeable pavements.
- C. Line posts installed at intervals not exceeding 10 ft. on center.
- D. Top rail: When specified, install 21 ft. lengths of rail continuous thru the line post or barb arm loop top. Splice rail using top rail sleeves minimum 6 in. long. Rail shall be secured to the terminal post by a brace band and rail end. Bottom rail or intermediate rail shall be field cut and secured to the line posts using boulevard clamps or brace band with rail end.
- E. Terminal posts: End, corner, pull and gate posts shall be braced and trussed for fence 6 ft. and higher and for fences 5 ft. in height not having a top rail. The horizontal brace rail and diagonal truss rod shall be installed in accordance with ASTM F567.
- F. Tension wire: Shall be installed 4 in. up from the bottom of the fabric. Fences without top rail shall have a tension wire installed 4 in. down from the top of the fabric. Tension wire to be stretched taut, independently and prior to the fabric, between the terminal posts and secured to the terminal post using a brace band. Secure the tension wire to each line post with a tie wire.

3.03 CHAIN LINK FABRIC INSTALLATION

- A. Chain Link Fabric: Install fabric to inside of the framework maintaining a ground clearance of no more than 2 inches. Attach fabric to the terminal post by threading the tension bar through the fabric; secure the tension bar to the terminal post with tension bands and 5/16 in. carriage bolts spaced no greater than 12 inches on center. Small mesh fabric less than 1 in., attach to terminal post by sandwiching the mesh between the post and a vertical 2 in. wide by 3/16 in. galvanized

steel strap using carriage bolts, bolted thru the bar, mesh and post spaced 15 in. on center. Chain link fabric to be stretched taut free of sag.

1. Fabric to be secured to the line post with tie wires spaced no greater than 12 inches on center and to horizontal rail spaced no greater than 18 inches (457.2 mm) on center.
 2. Aluminum alloy tie wire shall be installed following ASTM F567: Wrap the tie around the post or rail and attached to a fabric wire picket on each side of the post or rail by twisting the tie wire around the fabric wire picket two full turns, cut off excess wire and bend over to prevent injury.
 3. Preformed 9 gauge power-fastened wire ties shall be installed following ASTM F626: Wrap the tie a full 360° around the post or rail and fabric wire picket, using a variable speed drill, twist the two ends together three full turns, cut off any excess wire and bend over to prevent injury.
- B. Secure the fabric to the tension wire by crimping hogs rings around a fabric wire picket and tension wire.

3.04 GATE INSTALLATION

- A. Swing Gates: Installation of swing gates and gateposts in compliance with ASTM F 567.
1. Direction of swing shall be as shown on the plans Gates shall be plumb in the closed position having a bottom clearance of 3 in., grade permitting.
 2. Hinge and latch offset opening space shall be no greater than 3 in. in the closed position.
 3. Double gate drop bar receivers shall be set in a concrete footing minimum 6 in. diameter 24 in. deep.
 4. Gate leaf holdbacks shall be installed for all double gates.
- B. Electrically operated gates must be manufactured and installed in compliance with ASTM F2200 and UL 325.
- C. Provide weldable gatebox for trilogy lock. Install trilogy gate lock and program and test lock. Will require 120VAC outlet in NEMA enclosure for gateway and air access antenna.

3.05 NUTS AND BOLTS

- A. Bolts: Carriage bolts used for fittings shall be installed with the head on the secure side of the fence. All bolts shall be peened over to prevent removal of the nut.

3.06 CLEAN UP

- A. Clean Up: The area of the fence line shall be left neat and free of any debris caused by the installation of the fence.

END OF SECTION

DIVISION 32 EXTERIOR IMPROVEMENTS

SECTION 32 8400

IRRIGATION

PART 1 - GENERAL**1.01 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Special Provisions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Work Included: Install irrigation system complete as shown and as specified.
- B. Related Work: Consult all other applicable Sections. Coordinate installation with the work of other trades.
 - 1. Water stubout(s) for irrigation system - Division 33
 - 2. Electrical stubout(s) for controller(s) - Division 33

1.03 QUALITY ASSURANCE:

- A. Permits and Fees: Obtain and pay for all permits required.
- B. Manufacturer's Specifications: Follow Manufacturer's current printed specifications and drawings in all cases where the manufacturers of articles used in the Contract furnish directions covering points not specified or shown in the Drawings.
- C. Ordinances and Regulations: Local, municipal and state laws, codes, and regulations governing or relating to all portions of this work are hereby incorporated into and made a part of these Specifications. Anything contained in these Specifications is not to be construed to conflict with any of the above codes, regulations, or requirements of the same. However, when these Specifications and Drawings call for or describe materials, workmanship, or construction of a better quality, higher standard, or larger size than is required by the above codes and regulations, the provisions of these Specifications and Drawings are to take precedence.
- D. Due to the scale of the Drawings, it is not possible to indicate all offsets, fittings, sleeves, etc., which may be required. Carefully investigate the conditions affecting all of the work and plan accordingly, and furnish all required fittings. Install system in such a manner to avoid conflicts with planting, utilities, and architectural features.
- E. Do not install the irrigation system as shown on the Drawings when it is obvious in the field that obstructions, grade differences or discrepancies in are dimensions exist that might not have been considered in engineering. Bring such obstructions or differences to the attention of the Landscape Architect. In the event this notification is not given, the Contractor assumes full responsibility for any revision necessary.

1.04 SUBMITTALS

- A. Materials List:
 - 1. Within ten (10) days after the award of the Contract, submit an electronic copy of the complete lists of materials proposed for installation, and obtain the Landscape Architect's written approval thereof before proceeding. Use only accepted materials and items of equipment.
 - 2. List all materials by manufacturer's name and model number.

B. Manuals:

1. Prior to the final acceptance of the irrigation system, furnish three (3) individually bound Service Manuals to the Landscape Architect for use by the Owner. The manuals are to contain complete enlarged drawings, diagrams and spare parts lists of all equipment installed showing manufacturer's name and address. In addition, each Service Manual is to contain the following:
 - a. Index sheet indicating the Contractor's name, address and phone number.
 - b. Copies of equipment warranties and certificates.
 - c. List of equipment with names, addresses and telephone numbers of all local manufacturer's representatives.
 - d. Complete operating and maintenance instructions in sufficient detail to permit operating personnel to understand, operate and maintain all equipment.

C. Record Drawings:

1. Dimension from two (2) permanent points of reference, building corners, sidewalk, or road intersections, etc., the location of the following items:
 - a. Connection to existing water lines.
 - b. Connection to electrical power.
 - c. Gate valves.
 - d. Routing of pressure (main) lines.
 - e. Remote control valves.
 - f. Routing of control wiring.
 - g. Other related equipment as directed by Landscape Architect.
 - h. All sleeve locations.

- D. Deliver a reproducible Record Drawing to the Landscape Architect within seven (7) working days before the date of Final Inspection. Delivery of the record drawings does not relieve the Contractor of the responsibility of furnishing required information in the future.

E. Controller Plan:

1. Permanently install one 'bubble diagram' controller plan in each controller housing. At a minimum, the plan must show the area controlled by each valve and any major permanent structure, such as buildings and roads.
2. These charts to be waterproof and install as accepted by the Landscape Architect at the coverage test of the irrigation system.

F. Maintenance Material - Supply the following tools to the Owner.

1. Two (2) sets of specialized tools required for removing, disassembling and adjusting each type of sprinkler, valve or other equipment supplied on this project.
2. Two (2) keys for each type of automatic controller.
3. Two (2) quick-coupler keys and matching hose swivels for each type of quick coupling valve installed.

1.05 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Furnish and deliver materials in manufacturer's packaging, bearing and original legible labeling.
- B. Handle and store all equipment in accordance with manufacturer's current printed specifications.

1.06 SEQUENCING AND SCHEDULING

- A. Coordination: Coordinate with the work of other sections to insure the following sequence of events.
 1. Sleeves and Conduits: Installation of all sleeves and conduits to be located under paving and through walls prior to placement of those materials.

- F. Climate Change: Do not run the irrigation system during the rainy season. Set and program automatic controllers in response to seasonal requirements and requirements of newly - planted materials.

PART 2 - PRODUCTS

2.01 GENERAL

- A. Use only new materials of brands and types noted on Drawings or substitutes accepted by Landscape Architect.
- B. Water Meters: Provided and installed by others according to the codes of the utility. Costs will be paid by the Owner and are not part of this Contract.

2.02 IRRIGATION COMPONENTS

- A. Controller, rain sensor sensor, hydrometer, gate valve, quick coupling valve, remote control valve, drip irrigation equipment: As Shown on Drawings.

2.03 PIPES

- A. Pressure Main Line Pipe and Fittings: All PVC fittings are to bear the manufacturer's trademark name, material designation, size, applicable I.P.S. schedule and NSF seal of approval.

1. PVC scheduled pipe: Schedule 40 ASTM D1785 NSF approved Type I Grade I, PVC and Federal Specification PS-21-70.

- B. PVC Non-Pressure Lateral Line Piping and Sleeving:

1. PVC scheduled pipe: Schedule 40 ASTM D1785 NSF approved Type I Grade I, PVC and Federal Specification PS-21-70.

2. PVC solvent - weld fittings: ASTM D2466 Schedule 40, 1-2, II-I NSF approved.

3. Copper: ASTM B-42-84 Type K.

2.04 CONTROL WIRES

- A. Two-wire path: Dual conductor, solid core copper, 14 AWG. PVC insulation with Polyethylene (PE) outer jacket.

- B. As required from decoders to control valves: Copper with UL approval for electrical conduit, size 14-1. Common ground wire with white insulating jacket; individual control wires with insulating jacket of color other than white.

- C. Splice kits: complete waterproof kits; 3M DBY or equivalent.

2.05 VALVE BOXES

- A. Commercial grade, fiberglass reinforced plastic; NDS Pro Series, Carson, or equivalent. Color black. Furnish with lid locking bolt

- B. Size for remote control valves, 14"x19" 'standard'; for drip or subsurface control valve assemblies, 13"x22" 'jumbo'; for gate valves 10" round; for automatic flush valves and air/vacuum relief valves, 6" round.

2.06 TWO-WIRE CONTROL SYSTEM COMPONENTS

- A. Station decoders: WeatherTRAK WT2W-SVD-11

- B. Line Surge Protector: WeatherTRAK WT2W-LSP

2.07 MISCELLANEOUS INSTALLATION MATERIALS:

- A. Solvent cement and primers for solvent weld joints: Make and type approved by manufacturer(s) of pipe and fittings. Maintain cement proper consistency throughout use.

- B. Pipe joint compound: Do not use on sprinkler inlet port.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that all installed sleeving and conduits are undisturbed and are free of defects or errors introduced by the work of other sections.
- B. Water Meter/Water Pressure: Test and verify that installation of irrigation water meter by others has generated level of water pressure specified on Drawings.
- C. Stub-outs: Verify that all stub-outs to be provided under another contract are correctly sized, located and installed as noted on Drawings.
- D. Notification: Submit written notification to Landscape Architect within ten (10) working days of above inspections describing all acceptable and non-acceptable site conditions.

3.02 INSTALLATION

- A. Conduits and Sleeves:
 - 1. Coordination:
 - a. Sleeving will be existing only when installed under another subcontract. Inspect as specified above.
 - b. All electrical conduit within structure to installed by electrical section of contract.
 - 2. Extent: Conduit required for all low voltage control wiring, from room containing controller to all stub-out locations shown on the plans
- B. Excavating and Trenching:
 - 1. Existing Installations: Restore to their original conditions, damaged surfaces and underground installations as a result of the excavations at no cost to Owner.
 - 2. Trenches: Dig trenches wide enough to allow a minimum of 6 in. between parallel pipe lines. Provide a minimum cover from finish grade as follows:
 - a. 12 in. Deep: Over pipe on non-pressure side of irrigation control valve.
 - b. On-Structure: Penetrate planter walls at approved locations. Install pipe with deepest possible soil cover, with a minimum 2" of soil between bottom of pipes and waterproofing layer. Do not lay pipe directly on waterproofing layer.
- C. Backflow Prevention Device: Install according to local codes and manufacturer's current printed instructions.
- D. Pipe Line Assembly:
 - 1. Pipes
 - a. Install pipes and fittings in accordance with manufacturer's current printed Specifications.
 - b. Clean all pipes and fittings of dirt, scales and moisture before assembly.
 - 2. Solvent-Welded Joints for PVC Pipes:
 - a. Solvents: Use solvents and methods specified by pipe manufacturer.
 - b. Curing Period: Minimum of 1 hour before applying any external stress on the piping and at least 24 hours before placing the joint under water pressure.
 - 3. Threaded Joints for Plastic Pipes:
 - a. Tape: Use Teflon tape on threaded PVC fittings.
 - b. Joining: Use strap-type friction wrench only. Do not use metal-jawed wrench.
 - 4. Laying of Pipe:

- a. Bedding On-grade: Bed pipes in at least 2 in. of soil. Backfill on all sides of piping to provide a uniform bearing.
- b. Snaking: Snake pipe from side to side of trench bottom to allow for expansion and contraction. Minimum allowance for snaking is one (1) additional ft. per 100 ft. of pipe.
- c. Moisture Restrictions: Do not lay PVC pipe when there is water in the trench. Do not assemble PVC pipe unless the pipe is perfectly dry.

E. Control Valves:

1. Install valves where shown on Drawings and group together where practical. Stake proposed locations of all valves and obtain approval of Owner's Representative prior to installation.
2. Attach valve tag to solenoid lead wire, Christy standard tag.
3. Install locking bolt kit in all valve box lids at ground level and level 2.

F. Drip/Subsurface Irrigation:

1. Point Source Drip Irrigation: Coordinate installation with planting to insure timely and proper placement of heads at new planting. Adjust quantity and location of emitters to match final plant quantity and location.
2. Subsurface Irrigation: Uniform soil texture is critical to the success of subsurface irrigation. Do not install subsurface irrigation until all specified soil prep work has been completed and approved by the Landscape Architect. Install emitter tubing parallel to slopes where applicable. Place first row of tubing 4" from adjacent hardscape or structure, along longest planter edge. Install subsequent rows evenly spaced across planted area, approximately 16" O.C. Install flush valves and air/vacuum relief valves in quantity and location as recommended by manufacturer. Install a Toro T-DL-MP9 operation indicator on each subsurface network—place where observable by maintenance staff.

G. Automatic Controller:

1. General: Install per local code and manufacturer's current printed Specifications.
2. Strictly follow all manufacturer's recommendations for surge protection and grounding procedures.
3. Connection to Valves: Connect remote control valves to controller in sequence as noted on the Plans. Label control wires with numbered tape within controller cabinet.
4. Labeling: Affix controller name (i.e., "CONTROLLER A") on inside of controller cabinet door with minimum of 1 in. high permanent letters.
5. Irrigation Diagram: Affix a non-fading copy of irrigation diagram to cabinet door below controller name. Irrigation diagram to be sealed between two plastic sheets, 20 mil. minimum thickness. Use a reduced copy of the Record Drawing, for the irrigation diagram clearly showing all valves operated by the controller, station number, valve size, and type of planting irrigated.

H. Control Wiring:

1. General: Install control wires along irrigation main wherever possible. Conduit installed by electrical section of contract.
2. Extra Length: Provide 24 in. extra 2-wire cable at each 2-wire splice location to facilitate the removal of the remote control bonnet to finish grade without cutting wires. Coil extra control wire.

I. Closing of Pipe and Flushing of Lines:

1. Capping: Cap or plug all openings as soon as lines have been installed to prevent entrance of materials that would obstruct the pipe. Leave in place until removal is necessary for completion of installation.
2. Flushing: Thoroughly flush out all water lines before installing heads, valves and other hydrants.

3.03 FIELD QUALITY CONTROL

- A. Adjustment of the System: Adjust flow control of all remote control valves for correct operation. Control valves should close within 5 seconds of deactivation by controller.
- B. Testing of Irrigation System:
 - 1. In the presence of the Landscape Architect test all pressure lines under hydrostatic pressure of 125 pounds per square inch, and prove watertight.
 - 2. Sustain pressure in lines for not less than two (2) hours. If leaks develop, repair and repeat test until entire system passes.
 - 3. When the landscape irrigation system is completed, perform a coverage test in the presence of the Landscape Architect, to determine if the water coverage for planting areas is adequate.
 - 4. Test controllers individually in the presence of the Owner's Representative and the Landscape Architect. Demonstrate that all control valves operate electrically. Provide vehicles and radio equipment as necessary to expedite this process.
 - 5. Demonstrate to Landscape Architect that irrigation scheduling programmed into controller is adequate for plant requirements without causing runoff, and that scheduling capacities of controller are utilized.

3.04 BACKFILL AND COMPACTING

- A. General: After system is operating and required tests and reviews have been made, backfill excavations and trenches with clean soil, free of debris.
- B. Backfill For All Trenches: Regardless of the type of pipe covered, compact to minimum 95 percent density under pavements, and 85 percent under planted areas.
- C. Backfill at Existing Underground Pipes: Use only backfill material which has been screened to eliminate all materials larger than 3/8 in. when backfilling adjacent to existing underground pipe lines.
- D. Compacting: Compact trenches in areas to be planted by thoroughly flooding the backfill. Jetting process may be used in those areas.
- E. Finishing: Dress off all areas to finish grades.

3.05 MAINTENANCE:

- A. The entire irrigation system is to be under full automatic operation for a period of two (2) days prior to any planting.
- B. The Landscape Architect reserves the right to waive or shorten the operation period.

3.06 CLEAN-UP

- A. Clean-up as each portion of work progresses. Remove refuse and excess dirt from the site. Paving is to be broomed or washed down. Repair damages incurred on the work of others and restore to original conditions.

3.07 FINAL REVIEW

- A. Operate each system in its entirety for the owner at time of final review. Any items deemed not acceptable by the owner must be reworked to the complete satisfaction of the owner.
- B. Notify the Landscape Architect in advance for the following reviews, according to the time indicated:
 - 1. Pre-construction conference - 7 days.
 - 2. Supply line pressure test and control wire installation - 72 hours.
 - 3. Coverage and controller test - 72 hours.

4. Final review - 7 days.
- C. No reviews will commence without record drawings. In the event the Contractor calls for a review without record drawings, without completing previously noted corrections, or without preparing the system for review, he will be responsible for reimbursing the Landscape Architect at the rate of two and one-half times the normal office hourly rate per hour portal to portal (plus transportation costs) for the inconvenience. No further reviews will be scheduled until this charge has been paid.

END OF SECTION

DIVISION 32 EXTERIOR IMPROVEMENTS

SECTION 32 9000

PLANTING

PART 1 - GENERAL**1.01 WORK INCLUDED**

- A. Furnish all labor, materials, tools and equipment necessary for planting as indicated on the plans and as specified herein; including components and accessories required for a complete installation, including but not limited to the following components:
1. Site preparation
 2. Soils reports
 3. Soil preparation
 4. Soil amendments
 5. Mulch
 6. Decomposed granite paving
 7. Planting
 8. Fertilizing
 9. Edging
 10. Recycling waste material
 11. Project completion
 12. And the provisions for the maintenance and warranty periods.

1.02 RELATED SECTIONS

- A. Demolition: Section 02 4100
- B. Earthwork: Section 31 0000
- C. Planting Irrigation: Section 32 8400

1.03 REFERENCES

- A. Model Bay-Friendly Landscape Maintenance Specifications: serves as a reference document to provide language as needed to improve the environmental standards of ongoing landscape maintenance contracts.
- B. ReScape CA/Bay-Friendly Landscape Guidelines: fully describes the seven principles, offering 55 practices in sustainable landscape design, construction, and maintenance.
- C. Additional Bay-Friendly/ ReScape CA resources found at www.RescapeCalifornia.org

1.04 SUBMITTALS

- A. Submit samples for existing site soil, import topsoil if required, soil amendment, lawn seed, decomposed granite and mulch, approximately 2 cups volume each, 30 days prior to commencement of work. Appropriately sized samples to be submitted to allow for verification lab analysis to be completed.

1. Place a permanent label on each sample which identifies the product.
- B. Soil and Soil Amendment Reports
 1. Submit soil reports for existing soil and import topsoil if required, 30 days prior to commencement of work.
 2. Submit another soils report after recommended soil amendments have been incorporated during soils preparation work.
 3. Compost analytical data to be submitted and not older than 90-days.
- C. Within 30 days of Notice to Proceed, document with receipts or invoices that all plants have been located and secured for the work by ordering, paying deposits, or as required. Provide name and location of nursery, contact person, and telephone number.
- D. Notice of Shipment: At time of delivery, submit notice from nursery containing the following: Name and location of shipper; date of shipment; name of commodity; quantity; certificate that material complies with the specifications; size; statement of root pruning, including dates; and statement that plants are acclimated and have been growing outside.
- E. Submit certificates of conformance and supplier's receipt for all materials specified including compost amendment, mulch, import topsoil, lawn seed, and sod. Furnish a certificate with each delivery to the site of material in containers, or in bulk. Certificate to state source, quantity or weight, type and analysis, and date of delivery. Deliver all certificates to Owner's Representative.

1.05 QUALITY ASSURANCE

- A. Licensing requirements: Possess a State of California Landscape Contractor license and meet the State of California licensing requirements for the application of herbicide.
- B. Maintain and protect materials and plants stored on the job site from vandalism, theft, and damage. Protect plants from desiccation and damage.
- C. Specified plants to conform to approved names in "A Checklist of Woody Ornamental Plants of California" Manual 32. Plants conforming to the standards outlined by the Association of Nurserymen, "American Standard for Nursery Stock, " ANSI Z60.1-2004."
- D. Supply plants grown under climatic conditions similar to those at the project site.
- E. Use Redwood conforming to "Standard Specification for Grades of California Redwood Lumber" of the Redwood Inspection Service.
- F. Pruning per "Pruning Standards" of the Western Chapter of International Society of Arboriculture and ANSI A300 Pruning Standards.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in original, unopened, and undamaged containers showing weight, analysis, and name of manufacturer. Store in manner to prevent damage by moisture or exposure.
- B. Cover plants transported on open vehicles with a protective covering to prevent wind burn.
- C. Deliver and install sod within a period of 36 hours.

1.07 PROJECT CONDITIONS

- A. Work notification: Notify Owner's Representative at least 3 working days prior to installation of plants.
- B. Protect existing utilities, paving, and other facilities from damage caused by landscape operations.

- C. Locate, protect, and maintain the irrigation system during planting operations. Repair irrigation system components damaged during planting operations.

1.08 WARRANTY

- A. All trees to be warranted for 1 year after Final Acceptance. All other plants are to be warranted for 90 days after Final Acceptance. Provide new plants for plants that have died or indicate poor health during this time, at no additional cost to Owner or Owner's Representative. Provide replacement plants within two weeks of notification by Owner's Representative.
- B. Warranty will not cover damage or loss of plants caused by fires, floods, freezing rains, lightning storms, winds over 75 miles per hour, winter kill caused by extreme cold and severe winter conditions not typical of the site.

1.09 DEFINITIONS

- A. The "Owner's Representative" is the person, appointed by the Owner, to represent their interests. The Owner's Representative will be on site frequently and regularly during construction. Where needed, the Owner's Representative will identify the need for field visits by the Owner's Representative or other consultants.
- B. "BFL" and "Bay-Friendly" refer to the Bay-Friendly Landscape guidelines also known as ReScape CA, rating system, scorecards and conformance requirements as described and documented by ReScape California
- C. "Integrated Pest Management" (IPM) is a holistic approach to mitigating insects, plant diseases, weeds, and other pests. It involves the use of many strategies for managing, but not eliminating pests. IPM uses cultural, mechanical, physical, and biological control methods before using pesticides to control pests and diseases in the landscape. Chemical controls are applied only when monitoring indicates that preventative and non-chemical methods are not keeping pests below acceptable levels. When pesticides are required, the least toxic and the least persistent pesticide that will provide adequate pest control is applied.
- D. The "Organic Materials Review Institute" (OMRI) is a national nonprofit organization founded in 1997 to support the organic community. OMRI reviews products to determine their suitability for producing, processing and handling organic food and fiber under the USDA National Organic Program Rule, OMRI General Materials List.
- E. California Dept. of Food & Agriculture's Organic Input Materials Program (CDFA) and their Organic Input Material database (OIM) provide certification for Organic materials.
- F. US Composting Council Seal of Testing Assurance (STA): certifies compost has been appropriately manufactured.
- G. "Sheet Mulching" or "Cardboard Mulching" refers to a practice whereby a layer of paper or cardboard is used underneath the mulch to enhance weed suppression and soil building benefits.

PART 2 - PRODUCTS

2.01 PLANTS

- A. Supply well-shaped, vigorous plants that are typical of the species. Provide plants free of defects, disfiguring knots, abrasions, sunscald injuries, insect eggs, borers, and all forms of insect infestation. Remove plants that do not conform to these requirements, as determined by Owner's Representative.
- B. Container Stock: Plants to be well-established in containers, having been grown in the container for not less than 6 months, nor longer than 2 years. The Owner's Representative reserves the right to inspect root conditions of plants in containers and to reject those which are not well-rooted or show evidence of being root-bound; remove rejected plants from the site.

- C. Trees to have a symmetrical form as typical for the species/cultivar and growth form with a single, relatively straight central leader and tapered trunk. Main branches well spaced and no larger than two-thirds the diameter of the trunk, measured one inch above the branch.
- D. Tree trunk diameter and taper sufficient that the tree will remain vertical without the support of a stake. Trunks free of wounds. Trunk diameter six inches above rootball within the diameter range shown below:
- | | |
|--------------------------|--------------------------|
| 5 gallon size container | 0.5 inch to 0.75 inch |
| 15 gallon size container | 0.75 inch to 1.5 inches |
| 24-inch box | 1.5 inches to 2.5 inches |
| 36-inch box | 2 inches to 3 inches |
- E. Trees well-rooted in the soil mix. Rootball periphery free of large circling and bottom-matted roots. Trunk, root collar and large roots free of circling and / or kinked roots
- F. All plants legibly tagged by species and variety with a minimum of 1 tag per 10 trees, 10 shrubs, and 100 ground covers.
- G. Flat-grown plants well-rooted, full, and compact; not "leggy."
- H. Native Sods
1. Native No Mow: Western Mokelumne fescue- *Festuca occidentalis* Idaho fescue- *Festuca idahoensis*, Molate fescue- *Festuca rubra* as available from Delta Bluegrass Company, telephone: 1.800.637.8873, web site: www.deltabluegrass.com.
- I. Plants to be planted in rows or in formal arrangements must be matched in form.
- J. Before delivery of plants provide photographs of trees for review and approval by Owner's Representative. Provide one photograph for each specimen to be delivered plus two extra examples, to allow for rejects.
- K. Seed
1. California Coastal Native Wildflower Mix as available from Nature's Seed www.naturesseed.com

2.02 SOIL FERTILITY TEST AND REPORT

- A. Submitted soil report must include the following: soil fertility, agricultural suitability, particle size appraisal, pH, salinity, nitrate, ammonium, phosphate, potassium, calcium, magnesium, boron, sodium adsorption ratio, organic content, moisture infiltration rate, USDA particle size (textural analysis) and testing lab's recommendations for amending the soil for California Native plants.
- B. Soil tests for existing soil and import soil to be performed by one of the following or approved equivalent:
1. Waypoint Analytical, Inc., 4741 E Hunter Ave Ste A, Anaheim, CA 92807, telephone: 714.282.8777
 2. Perry Laboratory, 471 Airport Blvd., Watsonville, CA 95076-2026, tel. (831) 722-7606;
 3. Environmental Technical Services, 1343 Redwood Way, Petaluma, CA 94954-6544, (707) 795-9605;
 4. Root Zone Associates, tel. (408) 264-7024, or other soil testing service as approved by Owner's Representative.
- C. Test and recommendations for "organic" approach to soil and landscape management and to fulfill the Water Efficiency Landscape Ordinance Compliance (WELO). For example for Soil and Plant Labs this includes the following tests: A052-WELO for new planting or landscape installation; A17 for existing landscape; A05 for existing turfgrass.

- D. Perform 4 tests of existing site soil (1 per parcel), at different locations, to ensure that variations in soil conditions are tested.
- E. Amount and type of amendment or OMRI fertilizer identified in the Soils report takes precedence over these specifications if that recommendation is greater than the specifications. For bidding purposes see PART 3 – Soil Preparation.

2.03 OMRI FERTILIZERS

- A. Topdress with compost per soils test recommendations. Compost is considered the soil fertilizer. If soil testing recommends fertilizer in addition to compost, OMRI fertilizers are to be used as stated below.
- B. For General Plant Beds: OMRI Bio-Live (5-4-2) manufactured by Down To Earth, resold by Planet Naturals, <https://www.planetnatural.com>
- C. For addressing specific nutrient deficiencies: Down to Earth Distributors offers a wide range of OMRI listed single ingredient fertilizers such as: Calcium, Gypsum, Langbeinite, Potassium Sulfate, Oyster Shell, Granular Humic Acids, Alfalfa Meal, Rock Phosphate, Azomite, Fish Bone Meal, Bone Meal, Feather Meal, Blood Meal, etc. <https://www.downtoearthdistributors.com/>
- D. Or approved equivalent as recommended by soil testing laboratory. All products must be OMRI listed, or California Dept. of Food & Agriculture’s Organic Input Materials Program (CDFA) Organic Input Material (OIM) listed or listed by the US Department of Agriculture’s National Organic Program. If requesting substitution, provide documentation that proposed product is OMRI or CDFA OIM listed.
- E. Soil amendments materials prohibited by OMRI in its generic materials list are prohibited in the construction of the project.

2.04 SOIL AMENDMENT/ COMPOST

- A. OMRI Compost, acceptable products include:
 - 1. Recology Premium Compost, made from 100% recycled yard debris, municipal green material and food scraps, screened to about ¼" and has the US Composting Council's Seal of Testing Assurance. from Recology Organics, telephone: 866-764-5765, as supplied by Blossom Valley Organics, web site: <http://thecompoststore.com/>
 - 2. “WonderGrow Organic Compost” available from Recology Grover Environmental Products, Vernalis, CA, (866) 764-5765; “Super-Humus Compost” available from Republic Services, Milpitas, CA, (408) 945-2836;
 - 3. Organic Compost screened 3/8" minus by Z-Best products, www.zankerrecycling.com,
 - 4. or approved equivalent.
- B. Compost from sewage waste is not allowed. Source of compost from a producer that has the US Composting Council’s Seal of Testing Assurance.
- C. Submit a sample and analysis (Compost Technical Data Sheet) by soil testing lab to the Owner’s Representative for approval prior to delivery.
- D. Organic compost conforming to the following specification guidelines.

PROPERTY	TEST METHOD	REQUIREMENT
pH	TMECC 04.11-A	6-8.5
Soluble salts	TMECC 04.10-A Electrical conductivity 1:5 slurry method	0-5 or 10

Moisture content	TMECC 03.09-A Total solids & moisture at 70 + 5° C % wet weight basis	30-60 or 35-55	
Organic matter content	TMECC 05.07-A Loss-on ignition organic matter method (LOI) % dry weight basis	30-60	
Maturity	TMECC 05.05-A Germination and vigor % relative to positive control		
	Seed emergence	80 or above	
	Seedling vigor	80 or above	
Stability	TMECC 05.08-B Carbon Dioxide evolution rate mg CO _{2-C/g} OM per day	4 or below	
Pathogen	TMECC 07.01-B Salmonella <3 MPN per gram, dry weight basis	Pass	
Pathogen	TMECC 07.01-B Fecal coliform bacteria <1,000 MPN per gram, dry weight basis	Pass	
Physical contaminants	TMECC 02.02-C Man-made inert removal and classification: Plastic, glass, and metal % 4mm fraction	Combined total: <0.5%	
Physical contaminants	TMECC 02.02-C Man-made inert removal and classification: Sharps (sewing needles, straight pins and hypodermic needles) % >4mm fraction	None detected	
PARTICLE SIZING FOR PARTICULAR PRODUCTS			
Fine Compost (for soil incorporation)	TMECC 02.02-B Sample sieving for aggregate size classification % dry weight basis	Min	Max
	Pass 2-inch sieve	98%	=
	Pass 3/8-inch sieve	95%	=
	Pass 3/8-inch sieve (minimum 70% retained)	=	30%
	Maximum particle length: 6-inches		

*TMECC refers to "Test Methods for the Examination of Composting and Compost," published by the United States Department of Agriculture and the United States Compost Council (USCC)

- E. Soil amendments materials prohibited by OMRI in its generic materials list are prohibited in the construction of the project.

2.05 TOPSOIL

- A. Existing on-site surface soil or imported topsoil as specified herein. Provide import topsoil only when quantity or quality of existing on-site topsoil is inadequate to complete the work.
- B. Fertile, friable, natural soil, capable of sustaining healthy plant life. Free of stones and other objects over 2 inches in diameter, including subsoil and clay lumps. Without weeds, roots, noxious seeds, toxic substances, trash and other deleterious substances. Not infested with plant-parasitic nematodes or with other noxious animal life.
- C. Soil Fertility: Topsoil to contain sufficient quantities of organic matter and available nitrogen, phosphorus, potassium, calcium, and magnesium to support normal plant growth, as determined by soil testing and analysis specified herein. In the event of nutrient inadequacies, incorporate required materials prior to planting.
- D. Soil Chemistry: Meet the following standards:
1. Salinity: Saturation extract conductivity less than 3.0 mmhos/cm at 25 degrees C.
 2. Sodium: Sodium adsorption ratio less than 6.0.
 3. Boron: Saturation extract concentration less than 1.0 ppm.
 4. pH: pH of saturated paste 5.5 to 7.5.
- E. Infiltration Rate: Meet required rate where indicated.
- F. Imported Topsoil: Meet all requirements specified herein for Topsoil. In addition, meet the following:
1. Obtained from well-drained, arable land. Not taken from areas on which are growing any noxious weeds such as, but not limited to, Morning Glory, Sorrel or Bermuda grass.
 2. "Sandy Loam" as classified in accordance with USDA Standards. Soil must pass through a 2.0-mm sieve. Sand fraction with 85 percent falling in the medium to fine sand range. Silt and clay content not exceeding that of the existing soil over which the import topsoil is to be placed.
- G. Identify the source of topsoil, for observation and approval by the Owner's Representative prior to any hauling or placing of soil. In addition, submit soil sample and soil analysis report as specified herein.

2.06 MULCH

- A. Mulch in planting areas: Composted Mulch: Non-floating/ slope stabilizing composted organic wood mulch that has undergone a brief composting process at over 131°F that renders it virtually free of weed seeds and plant pathogens. Acceptable products include: ⚠
1. Marin Vineyard Mulch as supplied by West Marin Compost: telephone:415-662-9849, web site: <https://westmarincompost.org/>;
 2. or approved equivalent.
- B. Mulch paving: Green Waste Mulch: wood waste from tree trimming, 100% recycled material, composted to reduce weed seeds, with no color additive; double-ground; the largest allowable pieces not larger than 2" in any direction. Acceptable products include: ⚠

1. Arbor Mulch from American Soil and Stone, Richmond, CA 94804, 510-292-3000, website: <https://www.americansoil.com/>
2. Arbor Mulch from Grab 'n' Grow Soil Products, Santa Rosa, CA, 707-575-7275;
3. GWRY Treeincarnation Premium Landscape Mulch, all-wood, screened 3-inch minus, from Green Waste Recycle Yard, Richmond, CA, 510-527-8733;
4. Arbor Mulch, 1inch to 1.5 inches in size, from Recology Organics, telephone: 866-764-5765, web site: <http://thecompoststore.com/>
5. Premium Arbor Mulch, from Lyngso Garden Materials, telephone: 650-364-1730, web site: <http://www.lyngsogarden.com/>
6. or approved equivalent.

2.07 CARDBOARD

- A. Cardboard mulch: 2 layers of 100% recycled B flute cardboard as a biodegradable weed barrier to cover entire planting area.

2.08 HERBICIDES

- A. OMRI Herbicides:
 1. Pre-emergent: See CARDBOARD SHEET MULCH.
 2. If contractor feels cardboard is not enough for weed control, OMRI herbicides can be used in addition to the cardboard such as: 100% organic, Corn Gluten Meal Weed Suppressant "Bio-Weed" available from Bioscape Inc, Petaluma, CA, 1-877-246-7227, "Weedban" corn gluten meal by Fertrell Company, www.fertrell.com (717) 367-1566, or acceptable OMRI equivalent.
 3. Post-emergent type: "Scythe" natural herbicide by Mycogen Corporation, San Diego, CA, (800) 745-7476, "Weed Zap" available from JH Biotech, www.jhbiotech.com (800) 650-8933, or acceptable OMRI equivalent.

2.09 STAKES & TIES

- A. Tree Stakes: Lodgepole pine, 2-inch outside diameter with tapered driving point and chamfered top; untreated; length as required to provide minimum support needed while allowing for maximum flexibility, as manufactured by C&E Lumber Company, Pomona, CA (909) 626-3591 or approved equivalent.

2.10 PLANTER SOIL FOR VEGGIE BEDS & GREEN ROOFS

- A. Green Roofs and planter beds to be filled with: Marin Amended Soil as supplied by West Marin Compost: telephone:415-662-9849, web site: <https://westmarincompost.org/>; Or approved equivalent. 

2.11 ROOT BARRIERS

- A. Deep Root: Model UB24-2 with ground locks. High impact polystyrene with locking strips. Depth 24-inches. Deep Root.com, tel. (415) 781-9700 or approved equivalent.

2.12 SUBSTITUTIONS

- A. Substitutions must have written approval of Owner's Representative and equal the standard of products specified in the Construction Documents.
- B. Installation of approved substitution is Contractor's responsibility. Changes required for installation of approved substitution must be made to the satisfaction of Owner's Representative and without additional cost to the Owner.
- C. Approval by Owner's Representative of substituted equipment does not waive these requirements.

- D. Plant substitution will not be permitted unless written evidence is provided from at least three nurseries that the plants specified are not obtainable.

PART 3 - EXECUTION

3.01 OBSERVATIONS/MEETINGS

- A. Notify Owner's Representative at least 3 days prior to scheduling an observation meeting. Contractor to be present at observation meetings.
- B. Call for an observation meeting at the following stages of work:
 - 1. After the finish grading is complete and plants have been delivered and spotted.
 - 2. At the completion of all work.
- C. Perform remedial work directed by the Owner's Representative within 10 days after the observation meeting. Complete remedial work in accordance with the Contract Documents and at no additional cost to the Owner.

3.02 SOIL PREPARATION

- A. Finish Grades:
 - 1. Rough grade the general planting site area to plus or minus 0.10 foot. Rough grading at lawn and planting areas to be 4 inches below finish grade of adjacent paving and planter rim elevations. Finish grades in planting areas to be set flush, or 1 inch below, adjacent surfaces unless otherwise noted.
 - 2. Actual rough grade elevations, and soil amendment depths to be determined by amount of amendment required by the Soil Report, per section 2.02, and the depth of mulch specified in the planting details. Verify the required soil and mulch depth and the grading parameters with the Owner's Representative prior to starting the work.
 - 3. If sheet mulching with cardboard mulch is installed set finish grade of planting areas at a depth down to accommodate the thickness of the mulch.
- B. IPM to be used for control of weeds. Pre-emergent herbicides are to not be used as a first and only weed control method. Do not use pesticides that are not allowed by the OMRI in its generic materials for the maintenance of the landscape. Contractor to submit an IPM holistic approach to mitigate weeds and plant diseases.
- C. Construction Debris and Contaminated Soil:
 - 1. Do not perform soil preparation work in areas where soil contains deleterious materials such as construction debris. Bring such areas to the attention of the Owner's Representative and do not proceed with the work until the soil debris is properly removed from the site.
 - 2. If contaminants or other hazardous materials are discovered in the soil, stop work and notify the Owner's Representative immediately. Do not proceed with the work until direction has been provided by the Owner's Representative.
- D. Moisture Content: Do not work soil when moisture content is so great that compaction will occur, nor when it is so dry that dust will form, or when soil clods will not break readily. Apply water if necessary to bring soil to an optimum moisture content to complete the specified work.
- E. Take extreme care to avoid damage to plants indicated on plans to be saved. Do not disturb soil within the canopy of plants to be saved.
- F. Weed Control after 14 days of Watering Planting Areas, Lawn Areas and No Mow Turf Areas
 - 1. After finish grading is complete, apply water in sufficient quantity over a minimum period of 14 days to germinate weed seeds. In areas of subsurface drip irrigation this will require hand watering. When weeds have germinated, kill them with contact herbicide that will not have a

detrimental effect on the growth and vigor of the seeds and specified plants. Hand removal with full root removal is also acceptable. Herbicide to be OMRI.

3.03 FINISH GRADING

- A. When weeding and soil preparation have been completed and soil has been thoroughly water-settled, grade all planting areas smooth.
- B. Perform grading operation when soil is at the optimum moisture content for working.
- C. Remove rocks, debris and soil clods 2 inches in diameter and larger and dispose of off-site.
- D. Meet and match adjacent finished surfaces of pavements, drain rim elevations, and other structures. Float all lawn to provide even planting surfaces.
- E. Slope uniformly between given spot elevations. Planting areas to be true to grade within 1 inch when tested in any direction with a 10 foot straight-edge.
- F. Grades not otherwise indicated to be uniform slopes between points where elevations are given, or between points established by paving, curbs or catch basins.
- G. Provide for natural runoff of water without low spots or pockets. Accurately set flow lines according to the drawings. Make finish grades smooth, even and on a uniform plane with no abrupt changes of surface.
- H. Set finished grades as shown on Drawings.
- I. Round tops and toes of all slopes to produce a gradual, natural-appearing transition between relatively level areas and slopes.
- J. Finish surfaces by raking smoothly and evenly. Obtain finish grade approval from Owner's Representative prior to continuing with the work.

3.04 INSTALLATION

- A. Verify special protection instructions, clearance and pruning requirements with Owner's Representative prior to planting installation.
- B. Keep plants well watered in containers until planting layout is approved by Owner's Representative.
- C. Do not plant when soil moisture is so great that excessive compaction will occur, nor when it is so dry that dust forms in the air or that clods will not break readily. Apply water if necessary to bring soil to optimum moisture content for tilling and planting.
- D. Lay out trees and shrubs prior to planting, for approval by Owner's Representative. Maintain all plants in their original containers until approval to plant is provided.
- E. Do not install plants with damaged rootballs. Provide 3 shallow vertical score-cuts on the outside of the rootball with a sharp knife before planting. Loosen roots in rootball prior to placing rootball in planting pit.
- F. Locate planting holes per planting plan or per approved layout while in the field. Bring all conflicts with underground utility lines to the attention of the Owner's Representative.
- G. Compact soil at bottom of pit to support weight of rootball. Set rootball 1 inch above finish grade. Set plants upright, plumb and faced to give best appearance or relationship to each other or adjacent structure. Backfill with amended soil from pit.
- H. Tree Planting:
 - 1. Excavate tree pit to one inch less than the depth of the rootball and with a diameter equal to or greater than the size shown in Plant Pit Size chart on the plans. Sides of pit should be sloped as shown in detail.

2. Scarify sides of plant pit.
 3. Fill all tree pits with water to test for drainage. If pit drains within eight hours it is acceptable to follow the tree planting detail. If water does not drain within eight hours dig a twelve-inch-diameter sump to four feet deep or to a depth where water drains within eight hour period. Fill sumps with drain rock. Owner's Representative to be present at all tree pit drainage tests. Coordinate test to occur during first or second site visit.
 4. Place rootball on undisturbed soil so that rootball is one inch above finish grade. Adjust position of tree so that trunk is plumb and tree is oriented as approved by Owner's Representative.
 5. Backfill with two-thirds native soil mixed with one-third soil amendment compost
 6. Form watering berm around tree. Make diameter of berm two times diameter of rootball. On sloped sites form berm on downhill side only.
 7. Topdress with mulch inside watering berm keeping mulch six inches clear of trunk.
 8. In lawn areas remove sod at dripline of tree or in a three foot diameter ring minimum around trunks. Topdress with mulch.
- I. No Mow Sod:
1. Moisten planting bed thoroughly.
 2. Hand roll to eliminate irregularities, compact, and ensure good contact.
 3. Lay sod in a straight line, such as along a walkway.
 4. Butt all joints tightly together, without overlapping or leaving spaces between strips of sod. Stagger joints.
 5. Start watering immediately after first strips of sod are laid. When all sod is laid, thoroughly soak sod.
 6. After watering, roll sod with a roller not exceeding 90 lbs. to smooth out bumps and air pockets.
 7. Water thoroughly to wet soil to a depth of 4 inches. Do not let sod dry out.
- J. Ground Covers: Plant in neat, straight rows parallel to nearest structure, pavement, or fence. Stagger plants in adjacent rows. Plant no closer than 2 feet to trees or shrubs. At edge of paving, plant no closer than one half the plant spacing noted on the plans.
- K. Vines: Plant vines as close as possible to the structure they are to grow on, and tie to structure.
- L. Ornamental Grasses: Plant crown must be flush with grade. Finish grade adjacent to ornamental grasses to be the same as in the nursery container.
- M. Biotreatment Areas: as specified by CRWQCB, San Francisco Bay Region, Municipal Regional Stormwater NPDES Permit, in the Bay Area Stormwater Management Agencies Association (BASMAA) Biotreatment Soil Mix, "BASMAA Regional Biotreatment Soil Specification 2016," dated April 18, 2016, or newest requirement takes precedence.
- N. Seed: Surface sow or cover with 1/8" of soil at rate of 1lb/2,000 sf
- O. Thoroughly water all plantings immediately after planting.
- P. Raise and replant plants which settle to less than one inch above finish grade. Add soil as necessary to fill voids. And adjust finish grades.

3.05 STAKING TREES

- A. Stake trees only where required to support the tree, to anchor rootball, or to protect tree from vandalism or wind as directed by Owner's Representative.

- B. Stakes To Support Tree: Size stakes to allow a minimum of 18 inches into the ground and a height above ground as required to support the tree. Use two support stakes and a 15-inch-long 1 x 3 crosstie attached near the ground. Place the crosstie to the lee of the stakes. Place stakes at either side of the rootball but not through the rootball. Set stakes plumb. Position stakes to steady tree from prevailing winds.
- C. Install two ties per tree 2-3 inches below the top of the stake. Trim off excess stake. Install ties in a figure 8 and nail each into the stake. Ties to secure the tree while allowing it to move.
- D. Remove all nursery stakes, ties and tags from plants.
- E. Stakes for Protection or To Anchor Rootball: 2 x 2 by 3 to 4 feet length

3.06 MULCH

- A. Apply 3-inch depth of mulch in all planting areas, except lawn.

3.07 ROOT BARRIERS

- A. Install as per detail and manufacturer's recommendation.

3.08 WEED REMOVAL AND HERBICIDES

- A. After planting is complete, remove all weeds from planting areas.
- B. Irrigate all planting areas prior to applying organic post-emergent herbicide.
- C. Apply organic pre-emergent herbicide to all non-turf areas in accordance with the manufacturer's recommended rates. Apply herbicides in accordance with EPA label restrictions and recommendations of federal and state laws.
- D. Spot treat weeds as they appear with post-emergent herbicide per manufacturer's recommendations. Take all precautions to avoid overspray onto existing plantings.
- E. Replace plants showing loss of vigor or health due to improper application of herbicide with new plants of same species and size at no additional cost to the Owner.

3.09 CARDBOARD SHEET MULCH

- A. Apply to entire planting area, cover all existing soil and vegetation that has not been removed.
- B. Wet cardboard while applying.
- C. Overlap sheets 8" minimum.
- D. Abut cardboard against edges of pavement, buildings, curbs and boulders.
- E. Abut to edge of installed rootballs without covering top of rootball/ root crown area.
- F. Fold excess cardboard when abutting against objects or at root crown areas to avoid excessive extra scraps.
- G. Recycle all remaining scraps of cardboard.
- H. Top cardboard with 1" layer of compost.
- I. Top compost with a 3" layer of mulch.

3.10 EDGING

- A. Set supporting stakes no more than 4 feet apart on straight runs, 2 feet on curved sections, and where necessary to support the headers rigidly in place during construction operation.
- B. Plastic Lumber: Allow 1/4-inch gap between boards. Do not butt joints tightly. Do not over tighten connections. Affix boards to stakes either by nailing or screwing; pre-drilling is not required. Do not rip boards.

3.11 PROTECTING EXISTING PLANTS

- A. Before clearing, grading, soil preparation, construction or other work, construct fences around all plants marked to be saved on the plans. Fences to be 5 or 6 feet high minimum, chain link mounted on two-inch diameter galvanized iron posts, driven into the ground to a depth of at least two-feet at no more than ten-foot spacing. Distance from the base of the tree to fence to be determined by the Owner's Representative, at dripline, minimum. Mulch inside fenced area to 3 inch depth. Leave fences in place for the duration of the work.
- B. Do not store or operate mechanical equipment, store construction materials, including soil and mulch, or perform grading procedures within the root zone of trees or shrubs.
- C. Root zone is defined as: Trees: 1½ times the diameter of the tree canopy, measured from the tree trunk; Shrubs: 10 foot radius from the main trunk of the shrub
- D. Do not attach wires, ropes or other devices to any existing plant to be protected, except as needed for the support of the tree. Do not attach any signs, other than a tag showing botanical classification, to any protected plant.
- E. Warning sign: Prominently display a warning sign on each fence at 20-foot intervals, maximum. Sign should be 8-1/2 inches x 11 inches minimum size and clearly state: "WARNING - Tree Protection Zone – Do not remove this fence except as directed by Owner's Representative."
- F. Periodically spray the leaves of protected plants with water to wash away dust.

3.12 CLEANING

- A. Remove topsoil, soil amendments, and excess materials from walks and paved areas. Sweep walk s and paved areas clean at the end of each work day. Immediately remove dirt from building walls and paved areas.
- B. Remove empty plant containers from the site on a regular basis, at least once per week. While on site, store containers in an orderly fashion, secure from vandalism. Recycle all containers.
- C. Final Clean-up: In addition to the daily clean-up, remove and legally dispose of all waste materials, including excess materials, trash and debris. Recycle plant containers, product packaging, and other waste products used in this section. Ask plant suppliers if they will accept plant containers for reuse or recycling. Separate plant debris, which can not be incorporated as part of the mulch layer, from other waste and take to a green waste composting facility or transfer station.

3.13 MAINTENANCE PERIOD

- A. The maintenance period is 90 days, beginning on the day Provisional Acceptance is authorized by the Owner's Representative.
- B. Use qualified and experienced gardeners to perform maintenance, including but not limited to: watering, weed eradication, cultivating, fertilizing, pest management, clean-up, litter removal, adjusting and repairing tree stakes and ties, and all other operations necessary to assure good plant growth, and a clean, well tended site.
- C. Water: Contractor is responsible for providing water through the construction period up until the permanent water connection is installed.
- D. Replace dead plants immediately with plants of the same species and size as specified.
- E. Any day when the Contractor fails to: adequately water plants, replace unsuitable plants, perform weed eradication, or other work as determined necessary by the Owner's Representative, will not be credited as one of the Maintenance Period days.
- F. Remove all broadleaf weeds a minimum of 3 weeks before final inspection.

- G. IPM to be used for control of weeds. Pre-emergent herbicides are to not be used as a first and only weed control method. Contractor to submit an IPM holistic approach to mitigate weeds and plant diseases.
- H. Do not use herbicides that are not allowed by the OMRI in its generic materials for the maintenance of the landscape. Contractor to submit an IPM holistic approach to mitigate weeds and plant diseases.
- I. Check tree stakes and ties regularly to insure that they are secure and not injuring the trunk. Remove stakes and ties as soon as trees are self-supporting or at end of first season whichever is sooner.
- J. Mulching: Contractor to maintain a minimum of 3" of mulch at all times over soil surface that is not covered by vegetation. Keep mulch 6" away from tree trunks and 4" away from shrub stems. Restore plant basins.
- K. Prune new trees and shrubs only at the direction of the Owner's Representative, except broken or damaged growth or when necessary to enable new tree to support itself.
 - 1. General: Make all pruning cuts to lateral branches or buds or to the edge of the branch collar. "Stubbing" will not be permitted.
 - 2. Trees:
 - a. Prune trees to select and develop permanent scaffold branches; to eliminate diseased or damaged growth; to eliminate narrow V-shaped branch forks that lack strength; to reduce toppling and wind damage by thinning out crowns; to maintain growth within space limitations; to maintain a natural appearance; and to balance crown with roots; do not top trees.
 - b. Thin and shape evergreen trees when necessary to prevent wind and storm damage. Do primary pruning of deciduous trees during the dormant season. Prune damaged trees or those that constitute health or safety hazards at any time of the year as required to eliminate these conditions.
 - c. Replace improperly pruned trees with good specimen material, as directed by Owner's Representative.
 - d. Do not remove low lateral branches of young trees. Head back to 5"-6" if necessary.
 - 3. Shrub pruning should not occur as this is a no-shear landscape design. Do not clip shrubs into balled or boxed forms, unless such is required by the design and directed by the Owner's Representative.
- L. Protect all planted areas against trespassing and damage at all times. Repair damage as directed by the Owner's Representative without additional cost to the Owner.
- M. Maintain irrigation system during the maintenance period, using requirements from Section 32 84 00.
- N. Submit weekly maintenance reports, listing tasks completed during each visit, for the first three months. Thereafter, submit reports monthly at a minimum, for the duration of the maintenance period. Submit reports to the Owner's Representative.

3.14 PROJECT ACCEPTANCE

- A. Project Acceptance happens at two points in the construction process. Prior to Provisional Acceptance, and through the Maintenance Period to Final Acceptance, continuously maintain all trees, plants, products, and project systems installed under this contract.
 - 1. Provisional Acceptance occurs when all project work has been completed and all final Punch List items have been completed to the satisfaction of the Owner's Representative.
 - 2. Notify Owner's Representative ten days prior to end of Maintenance Period for Final Acceptance site visit.

3. Final Acceptance occurs after Provisional Acceptance is authorized and the Maintenance Period has been completed. Final Acceptance is authorized by the Owner's Representative at the conclusion of the Maintenance Period when it is determined that the project is complete, has been properly maintained, trees and plants are in healthy, vigorous condition, and project systems and products are in good working order.

END OF SECTION

APPENDIX C

Tentative Schedule

Tentative Schedule

(Dates Subject to Change)

Bid Advertisement May 12, 2026

Non-Mandatory Pre-Bid Conference May 20, 2026

Bid Opening June 11, 2026

Notice of Intent to Award June 25, 2026

Award July 28, 2026

Contract Documents Due August 11, 2026

Executed Contract August 25, 2026

Notice to Proceed October 6, 2026

Substantial Completion June 3, 2027

Final Completion July 3, 2027