



CRPD Cardinal Oaks RFI Responses

Question	Response
The RFP says a minimum of a "B" license is required. We have a "A" & "C-27" would these be sufficient?	Class A license is acceptable.
Please provide the material of turf from seed as indicated in the planting legend on sheet PL-1.	Turf from seed shall be 90% tall fescue/ 10% bluegrass
Please provide the detail for the new irrigation controller as shown in the irrigation schedule on sheet IR-2.	New irrigation controller will be installed in existing enclosure
Please confirm that the booster pump and water meter 6" as described in the irrigation legend on sheet IR-2 shall exist.	Confirmed there is an existing water meter and booster pump on site
The bioretention soil mix is specified in Part 3.3, Section 329113; however, its legend and detail are not indicated in the drawings. Please confirm whether this should be included in the bid.	Bioretention soil not required
Please clarify the limits of work where topsoil placement is required as specified in Part 3.2, Section 329113. Additionally, could you provide the required depth for the topsoil?	Topsoil not required
The invitation to bid states the minimum license required to be class B. This project is all groundwork and typically has a requirement of an A license with a C-27 doing the landscape. Would the district be open to receiving a bid from A licensed contractors?	Class A license is acceptable.
The specs show B license, are we going to be able to A license with other class?	Class A license is acceptable.

Addendum 1

January 16th, 2026

PLANS

Replace the following plan sheets with revised sheets:

- 1) Sheet DM-1 "Demolition Plan"
 - A. Updated Callout D-1, existing sign noted to remain
- 2) Sheet DM-2 "Demolition Plan"
 - A. Added Callout D-27, existing drinking fountain noted to be removed
- 3) Sheet DM-3 "Demolition Plan"
 - A. Added Callout D-28, added information on existing sign removal and relocation
- 4) Sheets PL-1, PL-2, & PL-3 "Planting Plan"
 - A. Added turf from seed species information to legend

SPECS

Replace the following spec sheets with revised sheets:

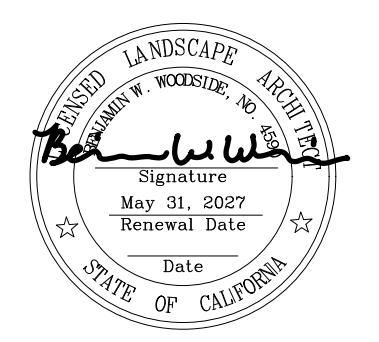
- 1) Section 32 91 13 "Landscape Soil Preparation"
 - A. Removed Part 1.2E Biotreatment Soil Mix Submittals
 - B. Removed Part 2.1D Biotreatment Soil Mix
 - C. Removed Part 3.2D Topsoil Incorporation
 - D. Removed Part 3.3 Biotreatment Soil Mix Placement



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REV. NO.	DESCRIPTION	ENGR. INIT.	COUNTY ACCEPTANCE	DATE
1	ADDENDUM 1			1/16/26



CARDINAL OAKS PARK
 CARMICHAEL, CA

REVISION	DATE
100% SUBMITTAL	10/17/25

PROJECT NO: 24029
 DRAWN BY: AW/CM
 CHECKED BY: MR
 SCALE: As Shown

SHEET TITLE
 DEMOLITION PLAN

SHEET
 DM-1
 9 OF 40

DEMOLITION LEGEND

- CLEAR AND GRUB
- REMOVE AND DISPOSE OF EXISTING PAVERS, DECOMPOSED GRANITE (4" DEPTH) OVER SAND BASE (2" DEPTH) AND ASSOCIATED CURBS. ASSUME 6 INCH DEPTH TOTAL
- REMOVE AND DISPOSE (3800 SF) OF EXISTING CONCRETE PAVING. ASSUME 4 INCH DEPTH TOTAL. SEE DEMOLITION NOTE 7
- REMOVE AND DISPOSE OF PLAY AREA FIBER AND RUBBER RAMP
- REMOVE AND DISPOSE OF EXISTING TREE
- EXISTING TREE TO REMAIN, PROTECT IN PLACE
- EXISTING STUMP TO BE GROUND DOWN
- REMOVE AND DISPOSE OF ITEM
- CONSTRUCTION FENCING, PER SPECS
- LIMIT OF WORK
- SAWCUT
- TO REMAIN
- TO BE REMOVED
- TREE PROTECTION FENCING, SEE NOTE 2 ON SHEET DM-3

REFERENCE NOTES SCHEDULE

- ADD ALTERNATE #1**
- D-01** REMOVE AND DISPOSE OF POST AND CABLE FENCE AND ASSOCIATED FOOTING (496'-0")
 - D-02** REMOVE AND DISPOSE OF POST AND CABLE FENCE AND ASSOCIATED FOOTINGS (6'-0")
 - D-03** REMOVE AND DISPOSE OF CHAINLINK FENCE AND ASSOCIATED FOOTING (26'-0")
 - D-04** SAWCUT
 - D-05** REMOVE AND DISPOSE OF VOLLEYBALL POST, ASSOCIATED FOOTING AND NET
 - D-06** REMOVE AND DISPOSE OF PLAY STRUCTURE FOOTING AND RETURN PLAY STRUCTURE TO DISTRICT
 - D-07** EXISTING LIGHT POLE AND ASSOCIATED ELECTRICAL BOX TO REMAIN
 - D-08** EXISTING UTILITY PIPE AND CONCRETE COLLAR TO REMAIN
 - D-09** EXISTING HORSHOE PIT AND ASSOCIATED FENCE AND CONCRETE PAD TO REMAIN
 - D-10** EXISTING HORSESHOE POST TO REMAIN
 - D-11** EXISTING SIGN TO REMAIN
 - D-12** EXISTING GATE POST AND ASSOCIATED FOOTING TO BE REMOVED
 - D-13** EXISTING BOLLARD AND ASSOCIATED FOOTING TO BE REMOVED
 - D-14** EXISTING CHAINLINK BACKSTOP TO REMAIN
 - D-15** EXISTING FENCE ENCLOSURE WITH IRRIGATION AND ELECTRICAL EQUIPMENT TO REMAIN
 - D-16** RELOCATE EXISTING PORTABLE RESTROOM UNIT PER SITE CONSTRUCTION PLANS
 - D-17** EXISTING DRAIN INLET TO REMAIN
 - D-18** EXISTING TRANSFORMER AND ASSOCIATED CONCRETE PAD TO REMAIN
 - D-19** REMOVE AND DISPOSE OF EXISTING TRASH CAN
 - D-20** REMOVE PICNIC TABLE AND RETURN TO DISTRICT
 - D-21** EXISTING FIRE HYDRANT TO REMAIN
 - D-22** EXISTING UTILITY TO REMAIN
 - D-23** EXISTING CURB TO REMAIN
 - D-24** REMOVE EXISTING (TYPE 3) CONCRETE CURB
 - D-25** REMOVE EXISTING WATER MAINLINE, CAP PER COUNTY REQUIREMENTS
 - D-26** REMOVE EXISTING SEWER LINE, CAP PER COUNTY REQUIREMENTS

DEMOLITION NOTES

- CLEAR AND GRUB:** CLEAR AND GRUB ALL EXISTING VEGETATION, AS REQUIRED TO ACCOMMODATE THE IMPROVEMENTS AND OPERATIONS SHOWN IN THE DRAWINGS. LIMITS OF CLEARING SHALL BE REVIEWED WITH DISTRICT'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK. STRIP ALL ORGANIC MATTER TO A SUFFICIENT DEPTH TO COMPLETELY REMOVE SUCH MATERIAL.
 - REVIEW DEMOLITION, AND CLEARING AND GRUBBING REQUIREMENTS ON SITE WITH DISTRICT'S REPRESENTATIVE PRIOR TO COMMENCING DEMOLITION OPERATIONS.
 - ALL DEMOLITION OPERATIONS WITHIN THE DRIP LINE OF TREES SHALL CONFORM TO THE TREE PROTECTION NOTES.
- IRRIGATION EQUIPMENT:** SEE IRRIGATION PLAN IR-1-IR-3 FOR DISPOSITION OF EXISTING IRRIGATION PIPING AND EQUIPMENT
- SAWCUTTING:** ALL PAVEMENT AND CURB REMOVAL AS SHOWN ON THE PLAN SHALL BE ACCOMPLISHED BY SAWCUTTING.
 - SAWCUTS SHALL BE NEAT AND CLEAN AND SHALL PROVIDE A SMOOTH TRANSITION BETWEEN NEW AND EXISTING FEATURES.
- SITE ACCESS:** CONTRACTOR IS RESPONSIBLE FOR PROVIDING MEANS OF ACCESS TO THE SITE, INCLUDING PROTECTIVE MEASURES FOR EXISTING IMPROVEMENTS TO REMAIN. CONTRACTOR SHALL INCLUDE IN THEIR BID PRICE ALL COSTS ASSOCIATED WITH GAINING ACCESS, PROTECTING EXISTING IMPROVEMENTS, AND REPAIRS REQUIRED AS A RESULT OF THE WORK.
- PHOTO DOCUMENTATION:** CONTRACTOR SHALL PROVIDE PHOTOGRAPHIC DOCUMENTATION OF EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION TO THE DISTRICT'S REPRESENTATIVE. THE PHOTOGRAPHIC DOCUMENTATION WILL BE USED TO EVALUATE POST CONSTRUCTION SITE CONDITIONS.
- REPAIR AND REPLACEMENT:** THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING AND REPLACING, AT THE CONTRACTOR'S OWN EXPENSE, ANY PAVEMENT, STRUCTURES, FENCES, WALLS, OR PLANT LIFE TO REMAIN THAT IS DAMAGED OR DESTROYED BY THE CONTRACTOR'S OPERATION. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES OCCURRING BY THE OPERATION, ON ADJACENT PROPERTIES AND ANYWHERE OUTSIDE THE CONTRACT LIMIT OF WORK LINES AS SHOWN ON THE PLANS. THE DAMAGED ITEMS WILL BE RESTORED TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE DISTRICT'S REPRESENTATIVE. DAMAGED PAVEMENT SHALL BE REMOVED AND REPLACED AT THE NEAREST EXISTING SCORE JOINTS.
- CONCRETE PAVEMENT REMOVAL:** CONTRACTOR SHALL REVIEW LIMITS OF CONCRETE PAVEMENT REMOVAL WITH DISTRICT REPRESENTATIVE PRIOR TO BEGINNING WORK. NO MARKING OF PAVEMENT, SAWCUTTING OR DEMOLITION WORK SHALL BEGIN PRIOR TO REVIEW WITH DISTRICT.

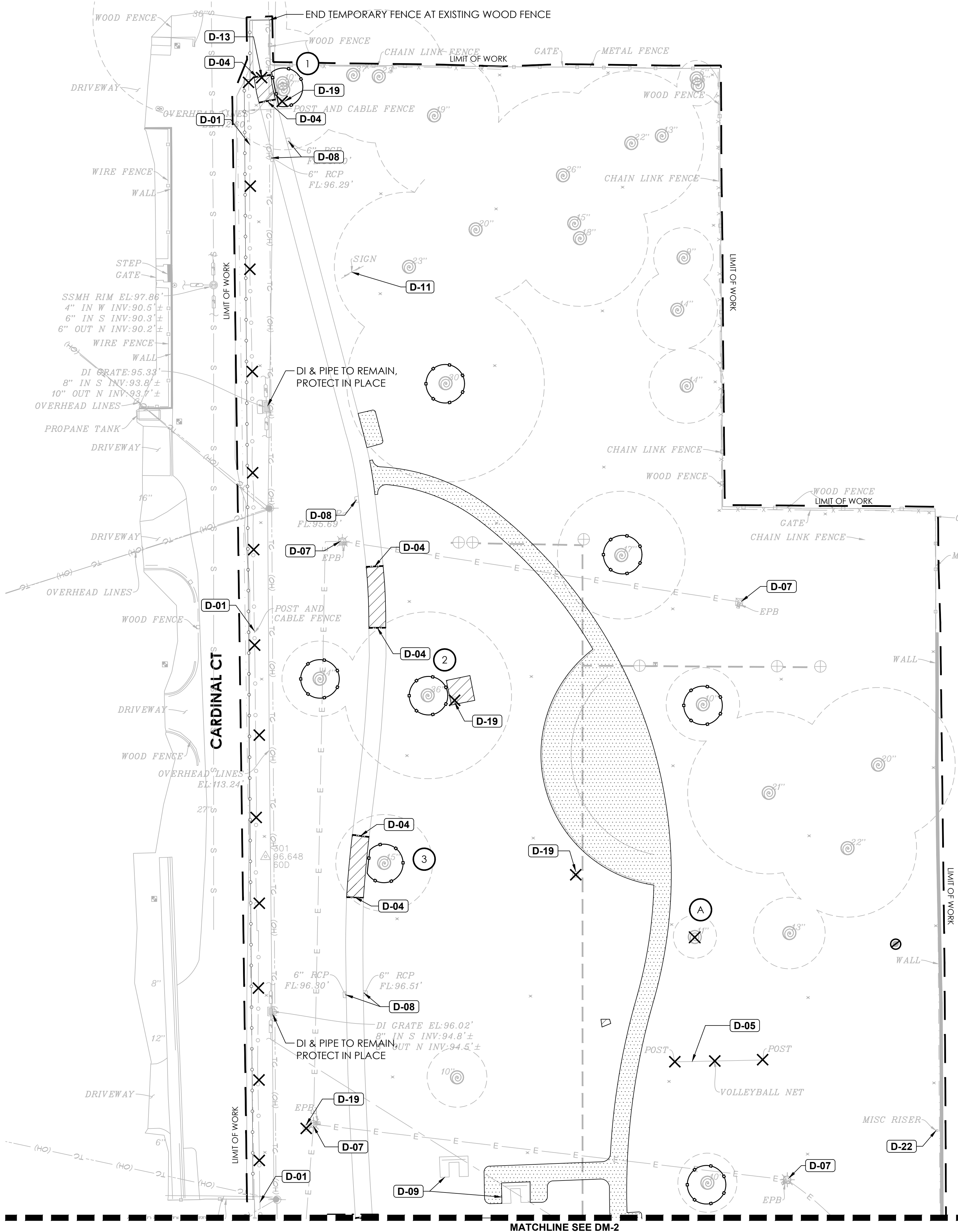
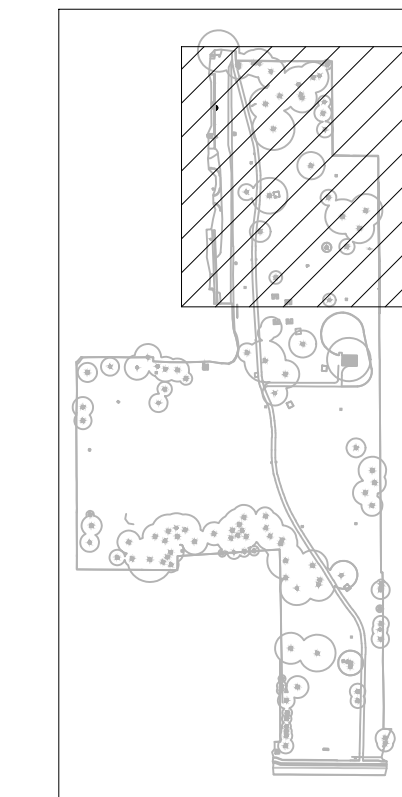
IMPACTED EXISTING TREE LIST

#	DBH	SPECIES
1	10"	QUERCUS LOBATA
2	36"	QUERCUS LOBATA
3	15"	CEDRUS ATLANTIA

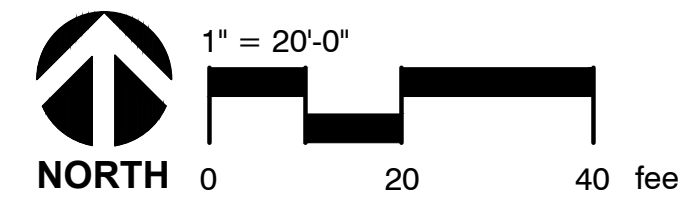
REMOVED TREES LIST

#	DBH	SPECIES
A	11"	UNIDENTIFIABLE/ DEAD

KEY MAP



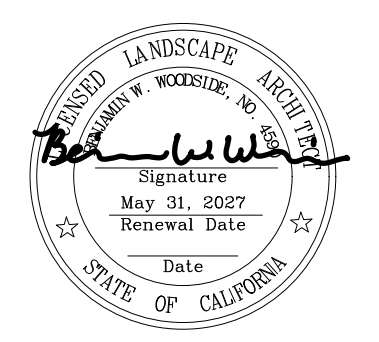
SEE SHEET DM-3
 FOR TREE PROTECTION NOTES





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ENGR INIT.	COUNTY ACCEPTANCE	DATE	
	BY	1/16/26	
DESCRIPTION	ADDENDUM 1		
REV. NO.			



CARDINAL OAKS PARK
CARMICHAEL, CA

REVISION	DATE
100% SUBMITTAL	10/17/25

PROJECT NO: 24029
DRAWN BY: AW/CM
CHECKED BY: MR
SCALE: As Shown

SHEET TITLE
DEMOLITION PLAN

SHEET
DM-2
10 OF 40

DEMOLITION LEGEND

- CLEAR AND GRUB
- REMOVE AND DISPOSE OF EXISTING PAVERS, DECOMPOSED GRANITE, SAND BASE, AND ASSOCIATED CURBS. ASSUME 6 INCH DEPTH TOTAL
- REMOVE AND DISPOSE (3800 SF) OF EXISTING CONCRETE PAVING. ASSUME 4 INCH DEPTH TOTAL. SEE DEMOLITION NOTE 7
- REMOVE AND DISPOSE OF PLAY AREA FIBER AND RUBBER RAMP
- REMOVE AND DISPOSE OF EXISTING TREE
- EXISTING TREE TO REMAIN, PROTECT IN PLACE
- REMOVE AND DISPOSE OF ITEM
- LIMIT OF WORK
- SAWCUT
- TREE PROTECTION FENCING. SEE NOTE 2 ON SHEET DM-3

REFERENCE NOTES SCHEDULE

- | REF. NO. | DESCRIPTION | ADD ALTERNATE #1 |
|----------|--|------------------|
| D-01 | REMOVE AND DISPOSE OF POST AND CABLE FENCE AND ASSOCIATED FOOTING (496'-0") | |
| D-04 | SAWCUT | |
| D-06 | REMOVE AND DISPOSE OF PLAY STRUCTURE FOOTING AND RETURN PLAY STRUCTURE TO DISTRICT | |
| D-07 | EXISTING LIGHT POLE AND ASSOCIATED ELECTRICAL BOX TO REMAIN | |
| D-08 | EXISTING UTILITY PIPE AND CONCRETE COLLAR TO REMAIN | |
| D-09 | EXISTING HORSHOE PIT AND ASSOCIATED FENCE AND CONCRETE PAD TO REMAIN | |
| D-10 | EXISTING HORSESHOE POST TO REMAIN | |
| D-15 | EXISTING FENCE ENCLOSURE WITH IRRIGATION AND ELECTRICAL EQUIPMENT TO REMAIN | |
| D-19 | REMOVE AND DISPOSE OF EXISTING TRASH CAN | |
| D-20 | REMOVE PICNIC TABLE AND RETURN TO DISTRICT | |
| D-24 | REMOVE EXISTING (TYPE 3) CONCRETE CURB | |
| D-27 | REMOVE EXISTING DRINKING FOUNTAIN | |

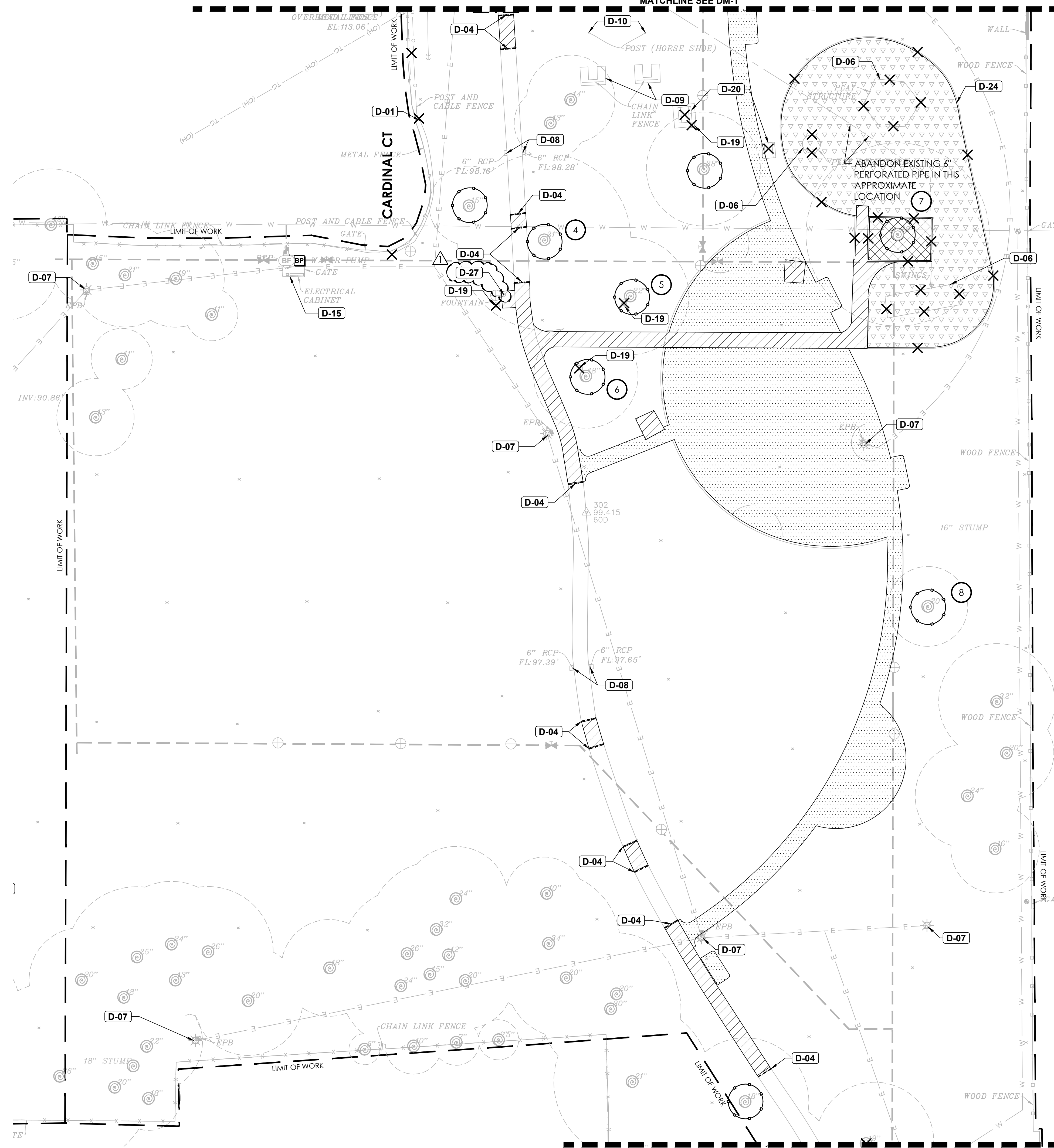
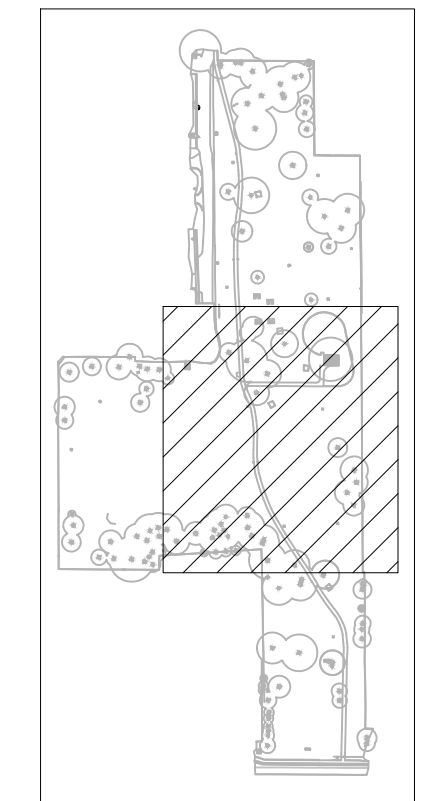
TREE PROTECTION NOTES

- PROJECT STARTUP:** PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL MEET ON-SITE WITH THE PROJECT ARBORIST AND PROJECT ENGINEER TO REVIEW ALL WORK PROCEDURES, ACCESS ROUTES, STORAGE AREAS, AND TREE PROTECTION MEASURES.
- DEMOLITION:** ALL EXISTING UNUSED LINES OR PIPES BENEATH THE CANOPIES OF TREES TO REMAIN SHALL BE ABANDONED OR CUT OFF AT EXISTING SOIL GRADE.
- MAINTENANCE DURING CONSTRUCTION:** APPLY A THREE INCH LAYER OF ARBOR MULCH WITHIN THE TPZ. WHERE IRRIGATION IS TURNED OFF OR MODIFIED BECAUSE OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE HEALTH OF THE EXISTING TREES TO REMAIN AND PREVENTING DROUGHT STRESS. FROM JUNE UNTIL REGULAR RAINFALL RESUMES, IRRIGATE MONTHLY TO MAINTAIN SOIL MOISTURE TO A DEPTH OF 24 TO 30 INCHES.
- ROOT CUTTING:** PRIOR TO EXCAVATING WITHIN A TPZ, A TRENCH SHALL BE DUG ALONG THE EDGE OF THE EXCAVATION CLOSEST TO THE TREE TRUNK. THIS TRENCH SHALL BE DUG BY HAND OR WITH AN AIR SPADE TO A DEPTH OF 30 INCHES, AND SHALL BE OF A SUFFICIENT WIDTH TO MANUALLY SEVER ANY ROOTS ENCOUNTERED GREATER THAN 2" DIAMETER. CUTS SHALL BE MADE PERPENDICULAR TO THE DIRECTION OF THE ROOT'S GROWTH, USING A CLEAN HAND SAW. AFTER ROOTS ARE CLEANLY SEVERED, EXCAVATION EQUIPMENT MAY BE USED AS REQUIRED ON THE SIDE OF THE TRENCH FARTHEST FROM THE TREE.
 - WITHIN ONE HOUR, CUT OR EXPOSED ROOTS SHALL BE COVERED WITH MOIST SOIL OR WITH BURLAP THAT IS KEPT WET UNTIL THE EXCAVATION CAN BE BACK-FILLED AND WATERED THOROUGHLY.
- SOIL PREPARATION:** NO RIPPING OR ROTOTILLING SHALL OCCUR WITHIN THE TPZ, UNLESS APPROVED BY THE DISTRICT ARBORIST.
- PLANTING AND IRRIGATION:** NO PLANTING OR IRRIGATION SHALL BE INSTALLED WITHIN 6 FEET OF TREE TRUNKS. MULCH SHALL NOT BE PLACED DIRECTLY AGAINST TRUNKS.
- DAMAGE:** THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE TO EXISTING TREES, I.E. TRUNK WOUNDS, BROKEN LIMBS, POURING OF ANY DELETERIOUS MATERIALS, OR CONCRETE WASHOUT UNDER THE DRIPLINE OF THE TREES. DAMAGES WILL BE ASSESSED USING THE "GUIDE TO PLANT APPRAISAL" 9TH EDITION, PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE. ANY DAMAGE OR INJURY TO TREES DURING CONSTRUCTION SHALL BE REPORTED TO THE DISTRICT ARBORIST IMMEDIATELY SO THAT REMEDIAL ACTION CAN BE TAKEN.

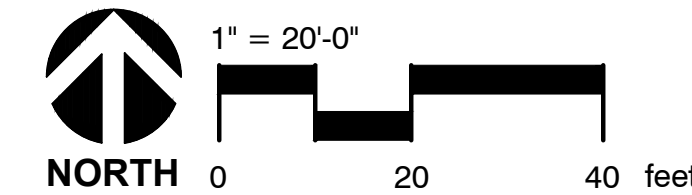
IMPACTED EXISTING TREE LIST

#	DBH	SPECIES
4	31"	QUERCUS LOBATA
5	11"	CELTIS OCCIDENTALIS
6	18"	CELTIS OCCIDENTALIS
7	28"	QUERCUS LOBATA
8	20"	PINUS RADIATA

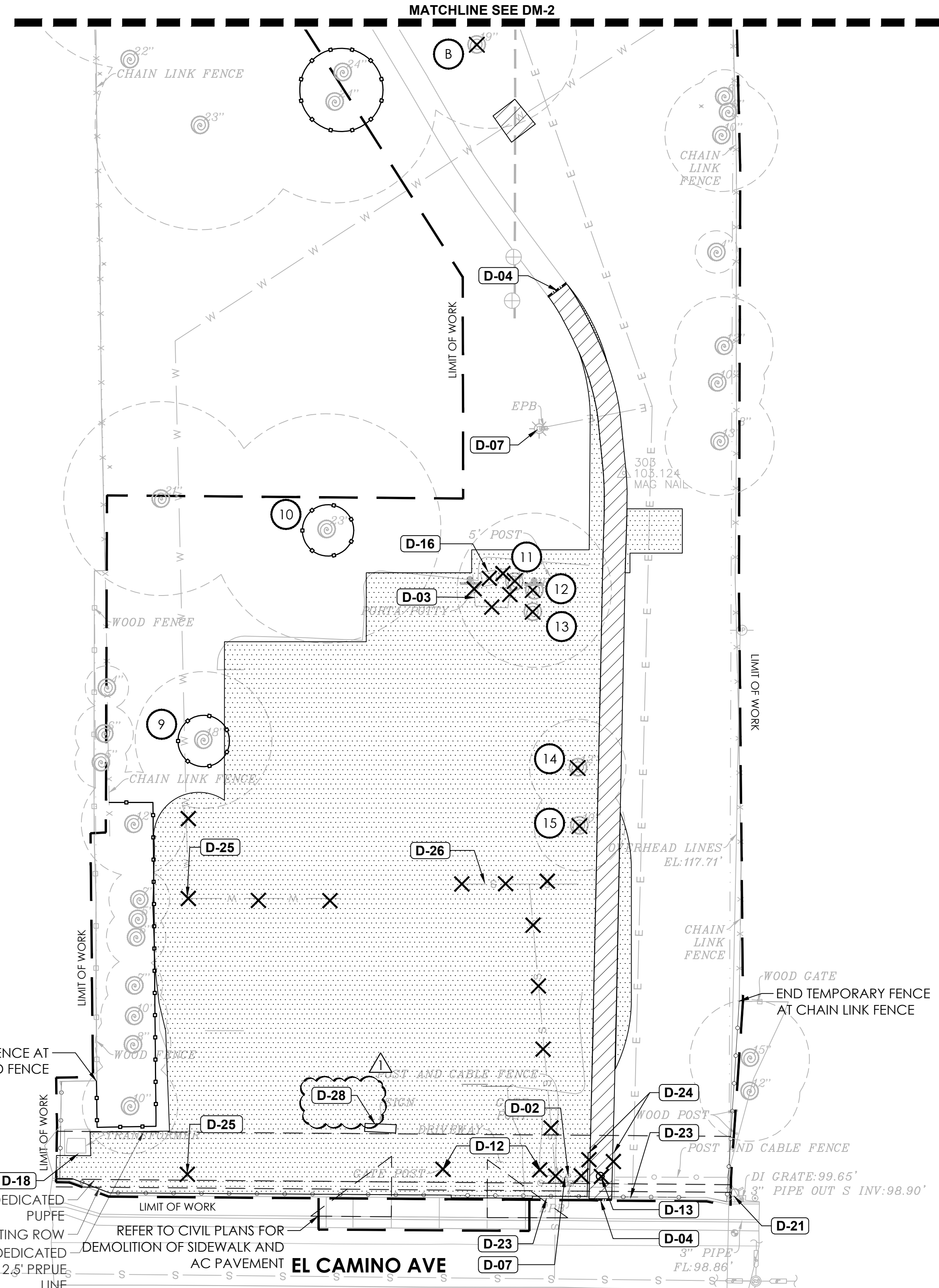
KEY MAP



SEE SHEET DM-1 FOR DEMOLITION NOTES
SEE SHEET DM-3 FOR COUNTY TREE PRESERVATION NOTES



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REFERENCE NOTES SCHEDULE

- D-02** REMOVE AND DISPOSE OF POST AND CABLE FENCE AND ASSOCIATED FOOTINGS (6'-0")
- D-03** REMOVE AND DISPOSE OF CHAINLINK FENCE AND ASSOCIATED FOOTING (26'-0")
- D-04** SAWCUT
- D-07** EXISTING LIGHT POLE AND ASSOCIATED ELECTRICAL BOX TO REMAIN
- D-12** EXISTING GATE POST AND ASSOCIATED FOOTING TO BE REMOVED
- D-13** EXISTING BOLLARD AND ASSOCIATED FOOTING TO BE REMOVED
- D-16** RELOCATE EXISTING PORTABLE RESTROOM UNIT PER SITE CONSTRUCTION PLANS
- D-18** EXISTING TRANSFORMER AND ASSOCIATED CONCRETE PAD TO REMAIN
- D-21** EXISTING FIRE HYDRANT TO REMAIN
- D-23** EXISTING CURB TO REMAIN
- D-24** REMOVE EXISTING (TYPE 3) CONCRETE CURB
- D-25** REMOVE EXISTING WATER MAINLINE, CAP PER COUNTY REQUIREMENTS
- D-26** REMOVE EXISTING SEWER LINE, CAP PER COUNTY REQUIREMENTS
- D-28** EXISTING SIGN TO BE REMOVED AND RE-INSTALLED. PLACE EYE BOLTS IN TOP OF SIGN'S WELDED INSERTS TO LIFT. POUR NEW FOOTING PER MANUFACTURER'S RECOMMENDATION AND PLACE NEW SIGN USING PIPES TO CONNECT TO NEW FOOTING. CONTACT OUTDOOR CREATIONS FOR ADDITIONAL INFORMATION 530-365-6106.

MITIGATION MEASURES

1. SEE SPECIFICATIONS APPENDIX C SACRAMENTO COUNTY PLANNING AND ENVIRONMENTAL REVIEW MITIGATION MONITORING AND REPORTING PROGRAM (MMRP) FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR TO NOTIFY ENVIRONMENTAL COORDINATOR 48 HOURS PRIOR TO START OF CONSTRUCTION AND NO LATER THAN 24 HOURS AFTER COMPLETION.
3. CONTRACTOR TO COMPLY TO THE FOLLOWING MEASURES:
 - 3.1 MITIGATION MEASURE B: TREES SLATED FOR REMOVAL SHALL BE REMOVED DURING THE PERIOD OF MID-SEPTEMBER THROUGH JANUARY, IN ORDER TO AVOID THE RAPTORS NESTING SEASON. ANY TREES THAT ARE REMOVED DURING THE NESTING SEASON, FEBRUARY THROUGH MID-SEPTEMBER, SHALL BE SURVEYED BY A QUALIFIED BIOLOGIST AND WILL ONLY BE REMOVED IF NO MIGRATORY NESTING BIRDS ARE FOUND. NESTING SURVEY SHALL BE CONDUCTED NO MORE THAN 14 DAYS PRIOR TO CONSTRUCTION.
 - 3.2 MITIGATION MEASURE C: TREES SLATED FOR REMOVAL SHALL BE REMOVED DURING THE PERIOD OF MARCH 1 AND MARCH 31, PRIOR TO PARTURITION OF BAT PUPS OR BETWEEN SEPTEMBER 1 AND OCTOBER 31 PRIOR TO BAT HIBERNATION IN ORDER TO AVOID LOSS OF BAT ROOST STRUCTURES. IF ANY TREES CONTAIN BAT HABITAT, TREES SHALL BE SURVEYED BY A QUALIFIED BAT BIOLOGIST AND WILL ONLY BE REMOVED UNDER SUPERVISION OF BAT BIOLOGIST.
 - 3.3 MITIGATION MEASURE D: REFER TO TREE PROTECTION NOTES ON SHEET DM-3.
 - 3.4 MITIGATION MEASURE E: NO REPLACEMENT TREE FOR NATIVE TREES SHALL BE PLANTED WITHIN 15 FEET OF THE DRIPLINES OF EXISTING NATIVE TREES. NATIVE TREES <6" DBH TO BE RETAINED ON SITE SHALL HAVE A 20'-0" RADIUS SUITABLE ROOT ZONE.
 - 3.5 MITIGATION MEASURE F: REMOVAL OF NON-NATIVE TREE CANOPY FOR DEVELOPMENT SHALL BE MITIGATED BY CREATION OF NEW CANOPY EQUIVALENT TO THE ACERAGE OF NON-NATIVE TREE CANOPY REMOVED.
 - 3.6 MITIGATION MEASURE G: IN THE EVENT THAT HUMAN REMAINS ARE DISCOVERED IN ANY LOCATION OTHER THAN A DEDICATED CEMETARY, WORK SHALL BE HALTED AND THE COUNTY CORONER CONTACTED. FOR ALL OTHER POTENTIAL TRIBAL CULTURAL RESOURCES, ARCHAEOLOGICAL, OR CULTURAL RESOURCES DISCOVERED DURING PROJECT'S GROUND BREAKING ACTIVITIES, WORK SHALL BE HALTED UNTIL A QUALIFIED ARCHAEOLOGIST AND/OR TRIBAL REPRESENTATIVE MAY EVALUATE THE RESOURCE.
 - 3.7 MITIGATION MEASURE H: REFER TO EROSION AND SEDIMENT CONTROL NOTES ON SHEET EC-2.

COUNTY TREE PRESERVATION NOTES

FOR THE PURPOSE OF THIS MITIGATION MEASURE, A NATIVE TREE IS DEFINED AS A VALLEY OAK (QUERCUS LOBATA), INTERIOR LIVE OAK (QUERCUS WISLIZENI), BLUE OAK (QUERCUS DOUGLASII), OR ORACLE OAK (QUERCUS MOREHUS), HAVING A DIAMETER AT BRESTH HEIGHT (DBH) OF AT LEAST 6 INCHES, OR IF IT HAS MULTIPLE TRUNKS OF LESS THAN 6 INCHES EACH, A COMBINED DBH OF AT LEAST 10 INCHES. NATIVE TREES THAT ARE TO BE RETAINED DURING CONSTRUCTION, ALL PORTIONS OF ADJACENT OFF-SITE NATIVE TREES WHICH HAVE CRITICAL ROOT ZONES THAT EXTEND ONTO THE PROJECT SITE, AND ALL OFF-SITE NATIVE TREES WHICH MAY BE IMPACTED BY UTILITY INSTALLATION AND/OR IMPROVEMENTS ASSOCIATED WITH THIS PROJECT, SHALL BE PRESERVED AND PROTECTED AS FOLLOWS:

1. A CIRCLE WITH A RADIUS MEASUREMENT FROM THE TRUNK OF THE TREE TO THE TIP OF ITS LONGEST LIMB SHALL CONSTITUTE THE DRIPLINE PROTECTION AREA OF EACH TREE. LIMBS MUST NOT BE CUT BACK IN ORDER TO CHANGE THE DRIPLINE. THE AREA BENEATH THE DRIPLINE IS A CRITICAL PORTION OF THE ROOT ZONE AND DEFINES THE MINIMUM PROTECTED AREA OF EACH TREE. REMOVING LIMBS WHICH MAKE UP THE DRIPLINE DOES NOT CHANGE THE PROTECTED AREA.
2. CHAIN LINK FENCING OR A SIMILAR PROTECTIVE BARRIER SHALL BE INSTALLED ONE FOOT OUTSIDE THE CRITICAL ROOT ZONE OF THE NATIVE TREES PRIOR TO INITIATING PROJECT CONSTRUCTION, IN ORDER TO AVOID DAMAGE TO THE TREES AND THEIR ROOT SYSTEM. IF ENCROACHMENT IS ALLOWED INTO THE CRITICAL ROOT ZONE, THE FENCING SHALL BE INSTALLED AT THE EDGE OF ENCROACHMENT.
3. NO SIGNS, ROPES, CABLES (EXCEPT THOSE WHICH MAY BE INSTALLED BY A CERTIFIED ARBORIST TO PROVIDE LIMB SUPPORT) OR ANY OTHER ITEMS SHALL BE ATTACHED TO THE OAK TREE. SMALL METALLIC NUMBERING TAGS FOR THE PURPOSE OF PREPARING TREE REPORTS AND INVENTORIES SHALL BE ALLOWED.
4. NO VEHICLES, CONSTRUCTION EQUIPMENT, MOBILE HOME/OFFICE, SUPPLIES, MATERIALS OR FACILITIES SHALL BE DRIVEN, PARKED, STOCKPILED OR LOCATED WITHIN THE DRIPLINES OF OAK TREES.
5. ANY SOIL DISTURBANCE (SCRAPING, GRADING, TRENCHING, AND EXCAVATION) IS TO BE AVOIDED WITHIN THE CRITICAL ROOT ZONES OF THE NATIVE TREES. WHERE THIS IS NECESSARY, AN ISA CERTIFIED ARBORIST WILL PROVIDE SPECIFICATIONS FOR THIS WORK, INCLUDING METHODS FOR ROOT PRUNING, BACKFILL SPECIFICATIONS AND IRRIGATION MANAGEMENT GUIDELINES.
6. ALL UNDERGROUND UTILITIES AND DRAIN OR IRRIGATION LINES SHALL BE ROUTED OUTSIDE THE CRITICAL ROOT ZONES OF NATIVE TREES. TRENCHING WITHIN THE CRITICAL ROOT ZONE IS NOT PERMITTED. IF UTILITY OR IRRIGATION LINES MUST ENCROACH UPON THE CRITICAL ROOT ZONE, THEY SHOULD BE TUNNELED OR BORED UNDER THE TREE UNDER THE SUPERVISION OF AN ISA CERTIFIED ARBORIST.
7. DRAINAGE PATTERNS ON THE SITE SHALL NOT BE MODIFIED SO THAT WATER COLLECTS OR STANDS WITHIN, OR IS DIVERTED ACROSS, THE DRIPLINE OF ANY OAK TREE.
8. NO SPRINKLER OR IRRIGATION SYSTEM SHALL BE INSTALLED IN SUCH A MANNER THAT SPRAYS WATER OR REQUIRES TRENCHING WITHIN THE DRIPLINES OF OAK TREES.
9. TREE PRUNING THAT MAY BE REQUIRED FOR CLEARANCE DURING CONSTRUCTION MUST BE PERFORMED BY AN ISA CERTIFIED ARBORIST OR TREE WORKER AND IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A300 PRUNING STANDARDS AND THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) "TREE PRUNING GUIDELINES".
10. LANDSCAPING BENEATH OAK TREES MAY INCLUDE NON-PLANT MATERIALS SUCH AS BARK MULCH, WOOD CHIPS, BOULDERS, ETC. THE ONLY PLANT SPECIES WHICH SHALL BE PLANTED WITHIN THE DRIPLINES OF OAK TREES ARE THOSE WHICH ARE TOLERANT OF THE NATURAL SEMI-ARID ENVIRONS OF THE TREES. LIMITED DRIP IRRIGATION APPROXIMATELY TWICE PER SUMMER IS RECOMMENDED FOR THE UNDERSTORY PLANTS.
11. FOR A PROJECT CONSTRUCTING DURING THE MONTHS OF JUNE, JULY, AUGUST, AND SEPTEMBER, DEEP WATER TREES BY USING A SOAKER HOSE (OR A GARDEN HOSE SET TO A TRICKLE) THAT SLOWLY APPLIES WATER TO THE SOIL UNTIL WATER HAS PENETRATED AT LEAST ONE FOOT IN DEPTH. SPRINKLERS MAY BE USED TO WATER DEEPLY BY WATERING UNTIL WATER BEGINS TO RUN OFF, THEN WAITING AT LEAST AN HOUR OR TWO TO RESUME WATERING (PROVIDED THAT THE SPRINKLER IS NOT WETTING THE TREE'S TRUNK). DEEP WATER EVERY 2 WEEKS AND SUSPEND WATERING 2 WEEKS BETWEEN RAIN EVENTS OF ONE INCH OR MORE.

MITIGATION MEASURE G: UNANTICIPATED DISCOVERIES OF CULTURAL OR TRIBAL CULTURAL RESOURCES

IN THE EVENT THAT HUMAN REMAINS ARE DISCOVERED IN ANY LOCATION OTHER THAN A DEDICATED CEMETARY, WORK SHALL BE HALTED AND THE COUNTY CORONER CONTACTED. FOR ALL OTHER POTENTIAL TRIBAL CULTURAL RESOURCES (TCRS), ARCHAEOLOGICAL, OR CULTURAL RESOURCES DISCOVERED DURING PROJECT'S GROUND DISTURBING ACTIVITIES, WORK SHALL BE HALTED UNTIL A QUALIFIED ARCHAEOLOGIST AND/OR TRIBAL REPRESENTATIVE MAY EVALUATE THE RESOURCE.

1. UNANTICIPATED HUMAN REMAINS. PURSUANT TO SECTIONS 5097.97 AND 5097.98 OF THE STATE PUBLIC RESOURCES CODE, AND SECTION 7050.5 OF THE STATE HEALTH AND SAFETY CODE, IF A HUMAN BONE OR BONE OF UNKNOWN ORIGIN IS FOUND DURING CONSTRUCTION, ALL WORK IS TO STOP AND THE COUNTY CORONER AND THE OFFICE OF PLANNING AND ENVIRONMENTAL REVIEW SHALL BE IMMEDIATELY NOTIFIED. IF THE REMAINS ARE DETERMINED TO BE NATIVE AMERICAN, THE CORONER SHALL NOTIFY THE NATIVE AMERICAN HERITAGE COMMISSION WITHIN 24 HOURS, AND THE NATIVE AMERICAN HERITAGE COMMISSION SHALL IDENTIFY THE PERSON OR PERSONS IT BELIEVES TO BE THE MOST LIKELY DESCENDANT FROM THE DECEASED NATIVE AMERICAN. THE MOST LIKELY DESCENDANT MAY MAKE RECOMMENDATIONS TO THE LANDOWNER OR THE PERSON RESPONSIBLE FOR THE EXCAVATION WORK, FOR MEANS OF TREATING OR DISPOSITION OF, WITH APPROPRIATE DIGNITY, THE HUMAN REMAINS AND ANY ASSOCIATED GRAVE GOODS.
2. UNANTICIPATED CULTURAL RESOURCES. IN THE EVENT OF AN INADVERTENT DISCOVERY OF CULTURAL RESOURCES (EXCLUDING HUMAN REMAINS) DURING CONSTRUCTION, ALL WORK MUST HALT WITHIN A 100-FOOT RADIUS OF THE DISCOVERY. A QUALIFIED PROFESSIONAL ARCHAEOLOGIST, MEETING THE SECRETARY OF THE INTERIOR'S PROFESSIONAL QUALIFICATION STANDARDS FOR PRE-CONTACT AND HISTORIC ARCHAEOLOGY, SHALL BE RETAINED AT THE APPLICANT'S EXPENSE TO EVALUATE THE SIGNIFICANCE OF THE FIND. IF IT IS DETERMINED DUE TO THE TYPES OF DEPOSITS DISCOVERED THAT A NATIVE AMERICAN MONITOR IS REQUIRED, THE GUIDELINES FOR MONITORS/CONSULTANTS OF NATIVE AMERICAN CULTURAL, RELIGIOUS, AND BURIAL SITES AS ESTABLISHED BY THE NATIVE AMERICAN HERITAGE COMMISSION SHALL BE FOLLOWED, AND THE MONITOR SHALL BE RETAINED AT THE APPLICANT'S EXPENSE.
- A. WORK CANNOT CONTINUE WITHIN THE 100-FOOT RADIUS OF THE DISCOVERY SITE UNTIL THE ARCHAEOLOGIST AND/OR TRIBAL MONITOR CONDUCTS SUFFICIENT RESEARCH AND DATA COLLECTION TO MAKE A DETERMINATION THAT THE RESOURCE IS EITHER 1) NOT CULTURAL IN ORIGIN; OR 2) NOT POTENTIALLY ELIGIBLE FOR LISTING ON THE NATIONAL REGISTER OF HISTORIC PLACES OR CALIFORNIA REGISTER OF HISTORICAL RESOURCES.
- B. IF A POTENTIALLY-ELIGIBLE RESOURCE IS ENCOUNTERED, THEN THE ARCHAEOLOGIST AND/OR TRIBAL MONITOR, PLANNING AND ENVIRONMENTAL REVIEW STAFF, AND PROJECT PROONENT SHALL ARRANGE FOR EITHER 1) TOTAL AVOIDANCE OF THE RESOURCE, IF POSSIBLE; OR 2) TEST EXCAVATIONS OR TOTAL DATA RECOVERY AS MITIGATION. THE DETERMINATION SHALL BE FORMALLY DOCUMENTED IN WRITING AND SUBMITTED TO THE COUNTY ENVIRONMENTAL COORDINATOR AS VERIFICATION THAT THE PROVISIONS OF CEQA FOR MANAGING UNANTICIPATED DISCOVERIES HAVE BEEN MET.

DEMOLITION LEGEND

- CLEAR AND GRUB
- REMOVE AND DISPOSE (3800 SF) OF EXISTING CONCRETE PAVING. ASSUME 4 INCH DEPTH TOTAL. SEE DEMOLITION NOTE 7
- REMOVE AND DISPOSE OF EXISTING TREE
- EXISTING TREE TO REMAIN. PROTECT IN PLACE
- REMOVE AND DISPOSE OF ITEM
- CONSTRUCTION FENCING, PER SPECS
- LIMIT OF WORK
- SAWCUT
- TREE PROTECTION FENCING. SEE NOTE 2 ON SHEET DM-3

#	DBH	SPECIES
9	18"	JUGLANS REGIA
10	23"	QUERCUS RUBRA
11	9"	QUERCUS AGRIFOLIA
12	16"	QUERCUS LOBATA
13		DEAD
14	12"	CITRUS SPP.
15	10"	CITRUS SPP.

#	DBH	SPECIES
B	19"	FRAXINUS EXCELSIOR



CALA

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			DATE	BY
1	ADDENDUM 1		1/16/26	



CARDINAL OAKS PARK
CARMICHAEL, CA

REVISION	DATE
100% SUBMITTAL	10/17/25

PROJECT NO:	24029
DRAWN BY:	AW/CM
CHECKED BY:	MR
SCALE:	As Shown

SHEET TITLE
DEMOLITION PLAN

SHEET
DM-3
11 OF 40

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SEE SHEET DM-1 FOR DEMOLITION NOTES
SEE SHEET DM-2 FOR TREE PROTECTION NOTES



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SCALE: As Shown

SHEET TITLE
PLANTING PLAN

SHEET
PL-1
23 OF 40

PLANT SCHEDULE

CODE	BOTANICAL / COMMON NAME	SIZE	WATER USE
TREES			
CEL OCC	CELTIS OCCIDENTALIS / COMMON HACKBERRY	15 GAL	LOW
CER OCC	CERCIS OCCIDENTALIS / WESTERN REDBUD MULTI-TRUNK	24" BOX	LOW
QUE LOB*	QUERCUS LOBATA / VALLEY OAK	24" BOX	LOW
QUE WIS*	QUERCUS WISLIZENI / INTERIOR LIVE OAK	24" BOX	LOW
ULM WIL	ULMUS WILSONIANA 'PROSPECTOR' / PROSPECTOR ELM	24" BOX	LOW

CODE	BOTANICAL / COMMON NAME	SIZE	WATER USE	SPACING
SHRUBS				
ARC ECM	ARCTOSTAPHYLOS X 'EMERALD CARPET' / EMERALD CARPET MANZANITA	5 GAL	LOW	60" o.c.
CIS HYB	CISTUS X HYBRIDUS / WHITE ROCKROSE	5 GAL	LOW	60" o.c.
LAN MON	LANTANA MONTEVIDENSIS / PURPLE TRAILING LANTANA	5 GAL	LOW	60" o.c.
MUH RIG	MUHLENBERGIA RIGENS / DEER GRASS	1 GAL	LOW	48" o.c.
PER ATR	PEROVSKIA ATRIPLICIFOLIA 'LITTLE SPIRE' / LITTLE SPIRE RUSSIAN SAGE	1 GAL	LOW	24" o.c.
WES MOR	WESTRINGIA FRUTICOSA 'MORNING LIGHT' / MORNING LIGHT COAST ROSEMARY	1 GAL	LOW	36" o.c.

SYMBOL	BOTANICAL / COMMON NAME	SIZE	WATER USE	SPACING
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- GROUND COVERS**
- BIOFILTRATION SOD/ NO MOW FESCUE
 - TURF FROM SEED: SHALL BE 90% TALL FESCUE/ 10% BLUEGRASS
 - BARK MULCH ONLY

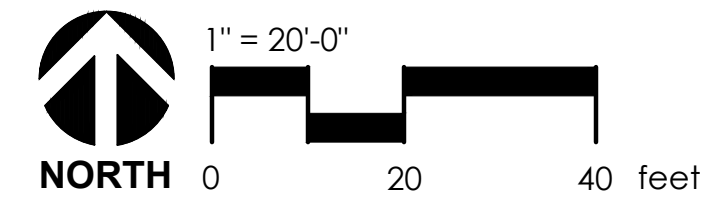
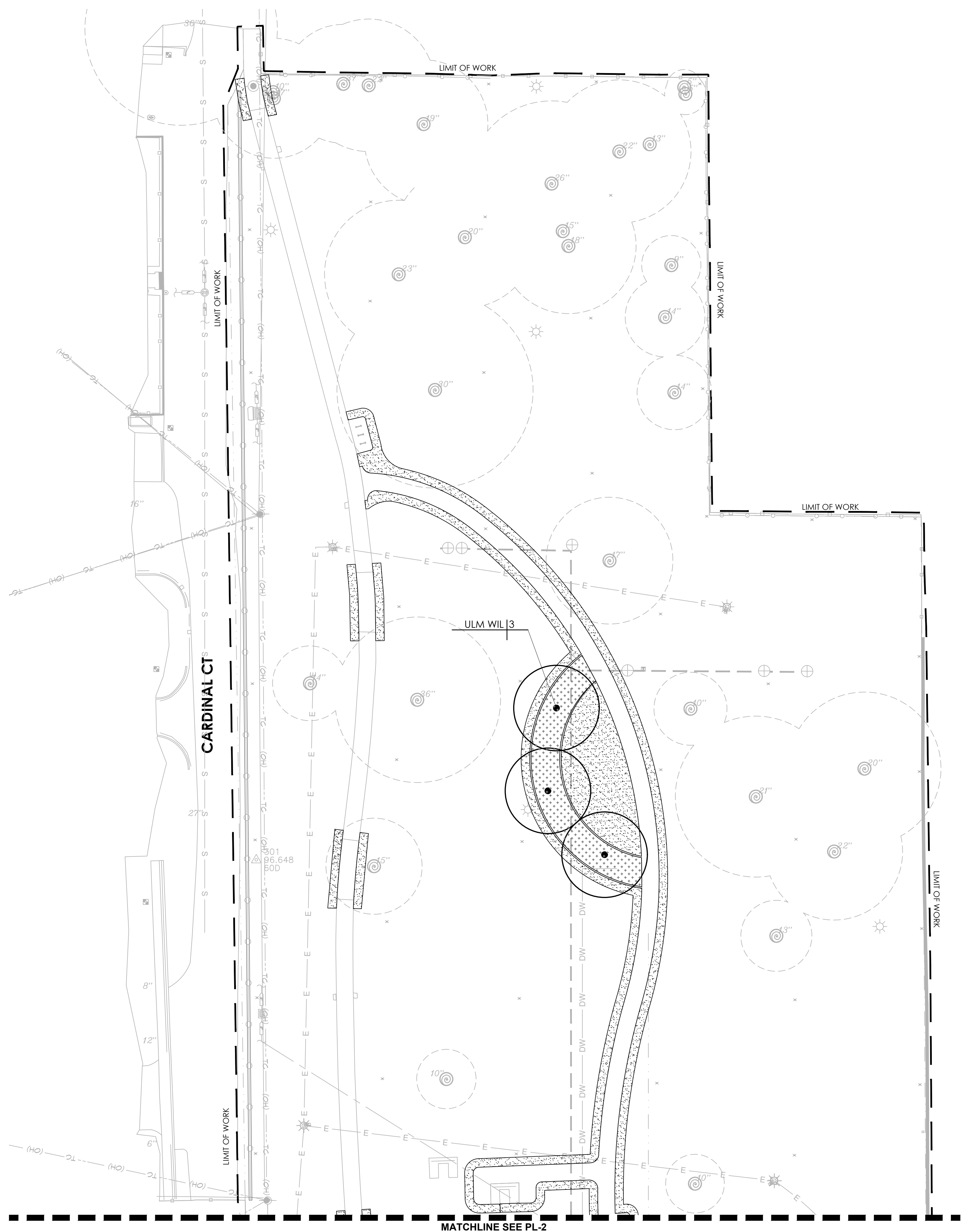
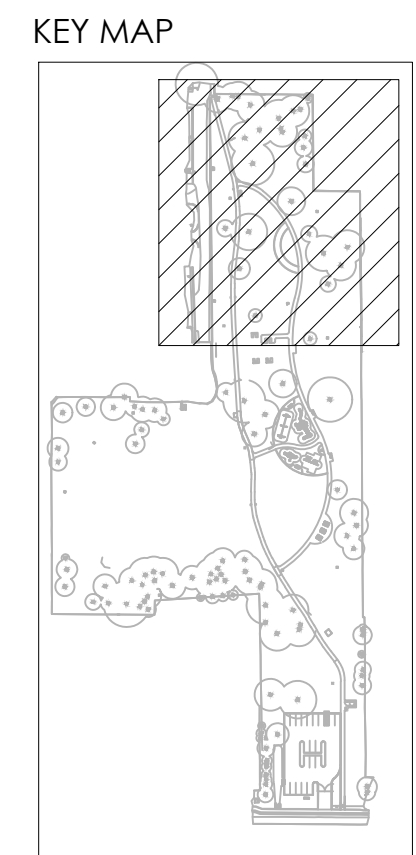
*REPLACEMENT TREE PLANTING: A TOTAL OF (6) NATIVE OAK TREES AT 24" BOX WILL BE PLANTED TO REPLACE A TOTAL OF 9" OF REMOVED NATIVE OAK TREES.

PLANTING NOTES

- MULCH:** INSTALL A UNIFORM THREE INCH COVERING OF MULCH IN ALL PLANTING AREAS, PER SPECIFICATIONS.
- EXISTING PLANT MATERIAL:** PROTECT ALL EXISTING PLANT MATERIAL TO REMAIN. REPAIR ANY DAMAGES INCURRED AS A DIRECT RESULT OF THIS CONTRACT TO THE DISTRICT'S SATISFACTION AT NO ADDITIONAL COST TO THE DISTRICT.
- GROUND COVER:** PROVIDE GROUND COVER AT INDICATED ON-CENTER SPACING THROUGHOUT ALL AREAS TO BE PLANTED. GROUND COVER SHALL BE PROVIDED UP TO THE WATERING BASIN OF ALL TREES AND SHRUBS.
- QUANTITIES:** THE QUANTITIES SHOWN ON THE LABELS ARE NOT TO BE CONSTRUED AS THE COMPLETE AND ACCURATE LIMITS OF THE CONTRACT. FURNISH AND INSTALL ALL PLANTS SHOWN SCHEMATICALLY ON THE DRAWINGS.
- SOILS TESTING:** SEE SPECIFICATIONS FOR TESTING OF TOPSOIL AND AMENDMENTS. CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR TESTING PRIOR TO CONSTRUCTION.
- ROOT BARRIERS:** ROOT BARRIERS 24 INCHES DEEP AND 20-FEET IN LENGTH CENTERED ON TRUNKS SHALL BE INSTALLEED FOR ALL TREES PLANTED WITHIN 5' OF PUBLIC SIDEWALKS AND CURBS PER SACRAMENTO COUNTY STREET IMPROVEMENT STANDARDS SECTION 4-32. ROOT BARRIERS SHALL CONFORM TO SECTION 20-2.01 AND 40.4313 OF THE SACRAMENTO COUNTY TECHNICAL PROVISIONS.
- SOILS TEST:** CONTRACTOR SHALL OBTAIN AND SUBMIT A SOILS FERTILITY TEST PER STATE OF CALIFORNIA DEPT. OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWEL) AS ENFORCED BY SACRAMENTO COUNTY. SOIL SAMPLES SHALL BE COLLECTED AFTER GRADING OPERATIONS HAVE BEEN COMPLETED AND PRIOR TO THE INSTALLATION OF LANDSCAPE MATERIALS. CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AS RECOMMENDED, OR BETTER, TO CORRECT FOR DEFICIENCIES NOTED IN THE SOILS TEST. PRIOR TO SCHEDULING FINAL INSPECTIONS FOR THE BUILDING PERMIT, THE SOILS TEST REQUIREMENT MUST BE COMPLETED. SOILS TEST AND DOCUMENTATION VERIFYING THE IMPLEMENTATION OF THE SOILS TEST RECOMMENDATION SHALL BE SUBMITTED WITH THE CERTIFICATE OF COMPLETION TO THE COUNTY AS REQUIRED BY THE MWEL.

I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN

SIGNATURE BENJAMIN W. WOODSIDE



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PLANT SCHEDULE

CODE	BOTANICAL / COMMON NAME	SIZE	WATER USE
TREES			
CEL OCC	CELTIS OCCIDENTALIS / COMMON HACKBERRY	15 GAL	LOW
CER OCC	CERCIS OCCIDENTALIS / WESTERN REDBUD MULTI-TRUNK	24" BOX	LOW
QUE LOB*	QUERCUS LOBATA / VALLEY OAK	24" BOX	LOW
QUE WIS*	QUERCUS WISLIZENI / INTERIOR LIVE OAK	24" BOX	LOW
ULM WIL	ULMUS WILSONIANA 'PROSPECTOR' / PROSPECTOR ELM	24" BOX	LOW

CODE	BOTANICAL / COMMON NAME	SIZE	WATER USE	SPACING
SHRUBS				
ARC ECM	ARCTOSTAPHYLOS X 'EMERALD CARPET' / EMERALD CARPET MANZANITA	5 GAL	LOW	60" o.c.
CIS HYB	CISTUS X HYBRIDUS / WHITE ROCKROSE	5 GAL	LOW	60" o.c.
LAN MON	LANTANA MONTEVIDENSIS / PURPLE TRAILING LANTANA	5 GAL	LOW	60" o.c.
MUH RIG	MUHLENBERGIA RIGENS / DEER GRASS	1 GAL	LOW	48" o.c.
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WES MOR	WESTRINGIA FRUTICOSA 'MORNING LIGHT' / MORNING LIGHT COAST ROSEMARY	1 GAL	LOW	36" o.c.

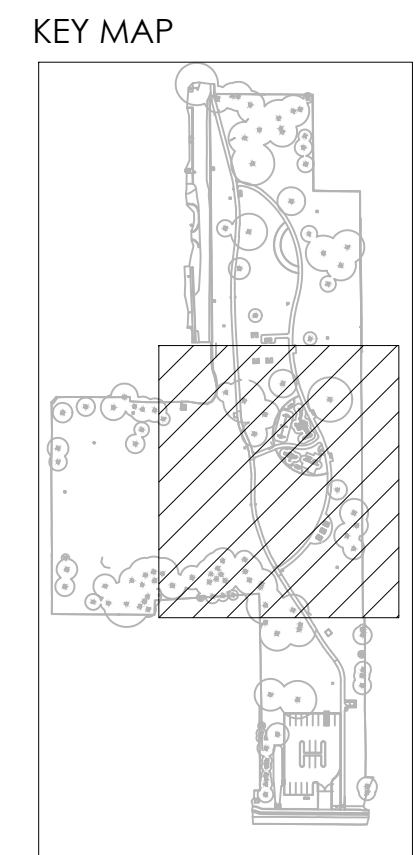
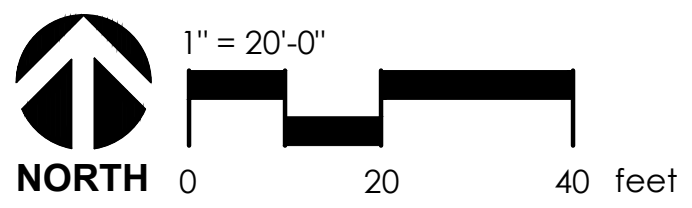
SYMBOL	BOTANICAL / COMMON NAME	SIZE	WATER USE	SPACING
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- GROUND COVERS**
- BIOFILTRATION SOD/ NO MOW FESCUE
 - TURF FROM SEED: SHALL BE 90% TALL FESCUE/ 10% BLUEGRASS
 - BARK MULCH ONLY
- *REPLACEMENT TREE PLANTING: A TOTAL OF (6) NATIVE OAK TREES AT 24" BOX WILL BE PLANTED TO REPLACE A TOTAL OF 9" OF REMOVED NATIVE OAK TREES.

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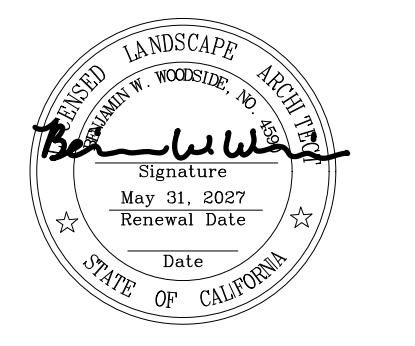
Benjamin W. Woodside
SIGNATURE _____ BENJAMIN W. WOODSIDE

FOR PLANTING NOTES
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1	ADDENDUM 1		1/16/26



CARDINAL OAKS PARK
CARMICHAEL, CA

REVISION	DATE
100% SUBMITTAL	10/17/25

PROJECT NO: 24029
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SHEET TITLE
PLANTING PLAN

SHEET
PL-2
24 OF 40

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SHEET TITLE
PLANTING PLAN

SHEET
PL-3
25 OF 40

PLANT SCHEDULE

CODE	BOTANICAL / COMMON NAME	SIZE	WATER USE	SPACING
TREES				
CEL OCC	CELTIS OCCIDENTALIS / COMMON HACKBERRY	15 GAL	LOW	
CER OCC	CERCIS OCCIDENTALIS / WESTERN REDBUD MULTI-TRUNK	24" BOX	LOW	
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SYMBOL				
CODE	BOTANICAL / COMMON NAME	SIZE	WATER USE	SPACING

GROUND COVERS

	BIOFILTRATION SOD/ NO MOW FESCUE
	TURF FROM SEED: SHALL BE 90% TALL FESCUE/ 10% BLUEGRASS
	BARK MULCH ONLY

*REPLACEMENT TREE PLANTING: A TOTAL OF (6) NATIVE OAK TREES AT 24" BOX WILL BE PLANTED TO REPLACE A TOTAL OF 9" OF REMOVED NATIVE OAK TREES.

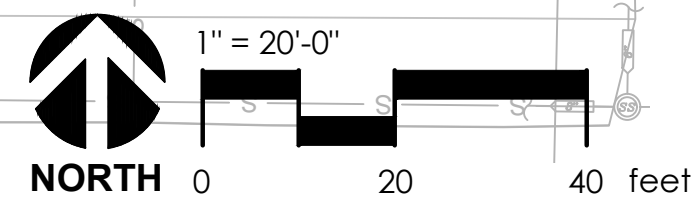
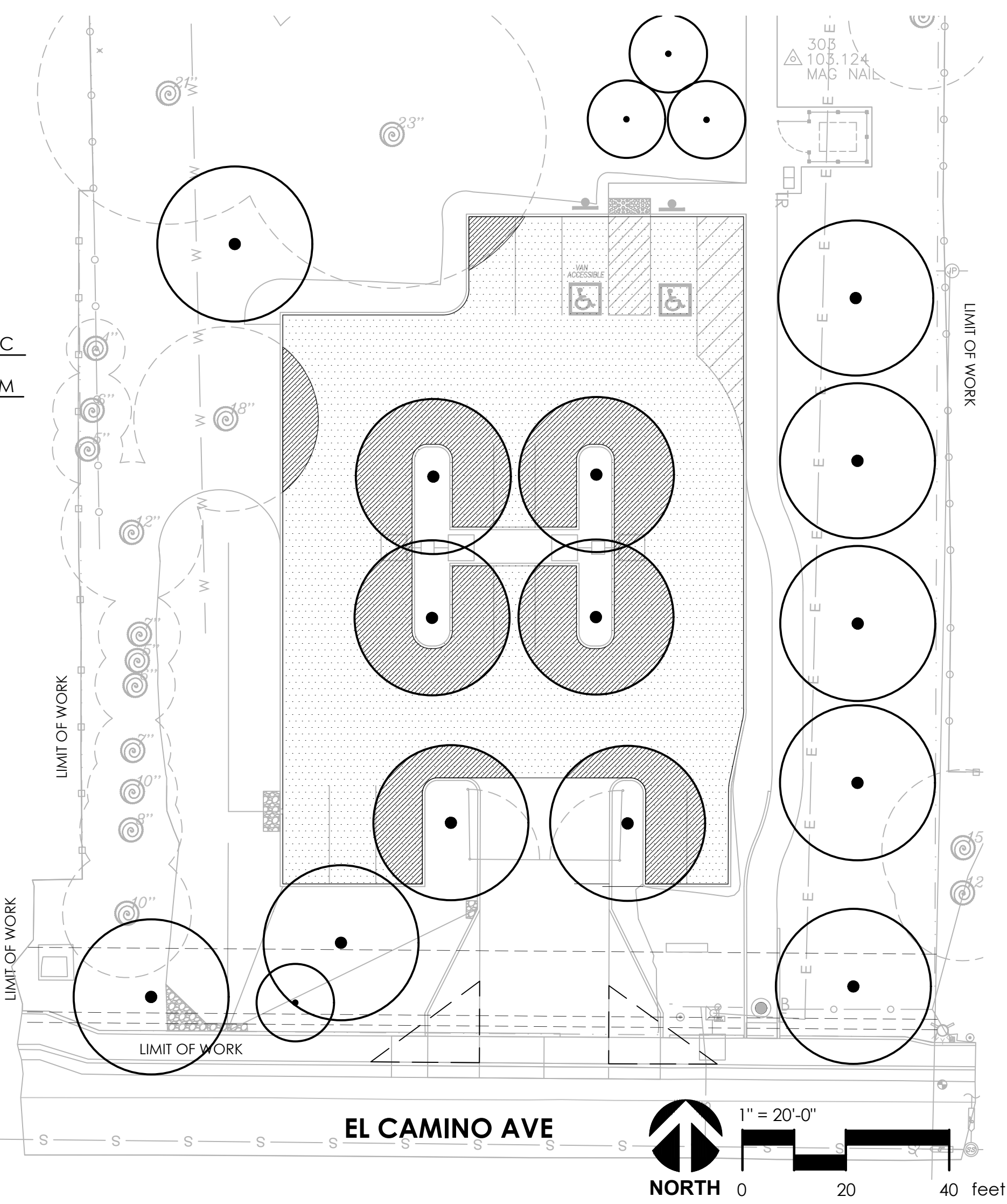
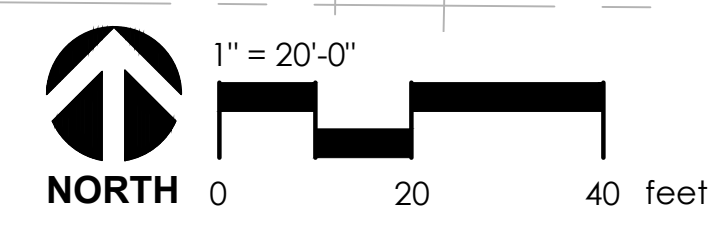
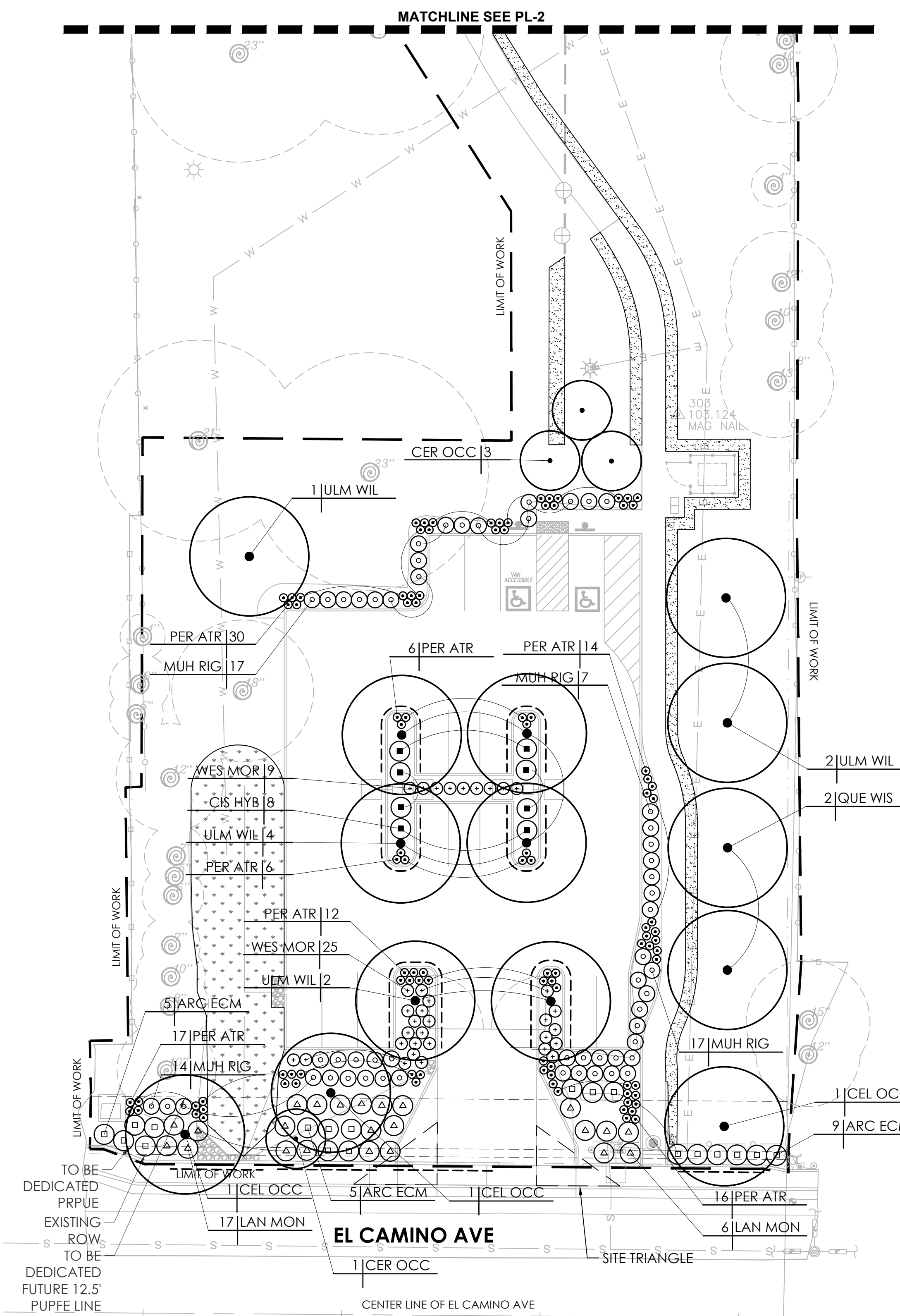
SACRAMENTO COUNTY PARKING LOT SHADE CALCULATION

TREE SPECIES	CANOPY DIAMETER	FULL (100%)	THREE-QUARTER (75%)	HALF (50%)	QUARTER (25%)
ULMUS WILSONIANA 'PROSPECTOR'	25' - 30'	4 @ 707 SF = 2,828 SF	2 @ 530 SF = 1,060 SF	-	-
EXISTING TREE	-	-	-	481 SF	353 SF
TOTALS:		2,828 SF	1,060 SF	481 SF	353 SF

TOTAL SHADED AREA:	4,722 SF
TOTAL PARKING AREA:	9,206 SF
PERCENT SHADED:	51%

I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN

Benjamin W. Woodside
SIGNATURE
BENJAMIN W. WOODSIDE



FOR PLANTING NOTES
SEE SHEET PL-1



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SECTION 32 91 13 LANDSCAPE SOIL PREPARATION

PART 1 – GENERAL

(See also General Provisions, Special Provisions, and General Requirements)

1.1 SCOPE

- A. Furnish and install all landscape soil preparation as shown on the plans and as specified herein including, but not necessarily limited to, the following:
 - 1. Soil testing
 - 2. Organic amendment
 - 3. Fertilizer
 - 4. Finish grading
- B. Related work specified elsewhere:
 - 1. Earthwork and Grading – Section 31 22 00
 - 2. Landscape Planting – Section 32 93 00

1.2 QUALITY CONTROL

- A. Reviews: Contractor shall specifically request at least three (3) working days in advance of the following reviews prior to progressing with the work:
 - 1. Completion of rough grading
 - 2. Verification of amendment incorporation depths
 - 3. Finish grade
- B. Certification: Written certificates stating quantity, type, and composition, weight and origin for all amendments and chemicals shall be delivered to the District's Representative before the material is used on the site.
- C. Soil Testing: Provide soil samples to Waypoint Analytical, Inc. of Anaheim, (714) 282-8777, for testing in accordance with these specifications. Test results shall be made available to the District's Representative. Allow sufficient time for testing prior to preparing soil for planting.
 - 1. The following soil tests are required under these specifications:
 - a. Native Soil: Prior to construction, submit native soil for horticultural soil analysis, consisting of (2) one-quart samples from the proposed turf area and (2) one-quart samples from proposed

- container planting areas. Samples shall be a representative composite taken from several planting areas.
- b. Contamination Testing: Prior to construction, submit for contamination testing: one five-gallon representative sample of native soil from areas previously covered by pavement. Contamination testing requires 4 to 5 weeks.
 - c. Pre-Plant: Following amendment and fine grading and prior to installation of plant material, submit for horticultural soil analysis: one quart-sized sample of in-place topsoil. Sample shall be a representative composite taken from several planting areas.
2. If test results indicate that soils fail to meet the specifications, obtain other sources of import material or re-amend as required. Retest and resubmit until passing results are obtained.
 3. Testing costs for initial samples and costs for any additional samples due to non-compliance shall be paid for by the Contractor.
 4. No material shall be delivered to the site until the District's Representative approves the material.
 5. The Contractor shall allow for sufficient time for testing prior to construction.
- D. Amendment Samples: Provide an analysis of the amendment from a Seal of Testing Assurance (STA) Certified Compost Lab, designated by the U.S. Composting Council (USCC). Or, send a one-gallon sample of each proposed amendment to Soil Control Lab of Watsonville (831) 724-5422, for their testing for conformance to this specification.
1. No material shall be delivered to the site until the District's Representative approves the samples.
 2. Testing costs shall be paid for by the Contractor.
 3. If an alternate laboratory is used, the laboratory must be STA certified by the USCC, using test methods described in the "Test Methods of the Examination of Composting and Compost" (TMECC) test methods manual.
- E. NOT USED
- F. Planting Areas: All areas to be planted, whether in seed, sod, container stock, flats, or otherwise, are defined as planting areas in these documents.

PART 2 – PRODUCTS

2.1 MATERIALS

- A. Native Topsoil: Shall be the existing surface layer of soil on-site. This layer typically will be a different color and texture than the subsoil, and may be of varying thicknesses. The Contractor shall be responsible for reviewing the area limits and depths of native topsoil on-site with the District’s Representative.
- B. Fertilizer: Shall be determined from the soils test results. For purposes of bidding only, assume the use of 6-20-20 commercial fertilizer, iron sulfate, and 20-10-5 Best-Pak planting packets by J.R. Simplot Company.
- C. Organic Amendment: If recommended by the horticultural soils test, the following materials shall be used as soil amendment.
 - 1. Compost: Shall be Z-Best’s Organic Compost available through Z-Best Composting (408) 846-1574 and shall conform to:
 - a. Seal of Testing Assurance Program from the U.S. Composting Council.
 - b. Compost parameters, below:

Property	Test Method	Unit of Measurement	Requirement
pH	TMECC 04.11-A Elastomeric pH 1:5 slurry method pH	units	6–8.5
Soluble salts	TMECC 04.10-A Electrical conductivity 1:5 slurry method	dS/m (mmhos/cm)	0–10
Moisture content	TMECC 03.09-A Total solids & moisture at 70 ± 5 °C	% wet weight basis	30-60
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 4 grams, dry weight basis	Pass/ Fail	Pass

Property	Test Method	Unit of Measurement	Requirement
Pathogen	TMECC 07.01-B Fecal coliform bacteria < 1,000 MPN per gram, dry weight basis	Pass/ Fail	Pass
Physical contaminants	TMECC 02.02-C Man-made inert removal and classification: Plastic, glass, and metal % > 4 mm fraction	% dry weight basis	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	% dry weight basis	none detected
Particle size fine for compost used as soil amendment	TMECC 02.02-B Sample sieving for aggregate Size classification	% dry weight basis	Pass 2 inch sieve 98% min., Pass 3/8 inch sieve 95% min.
Heavy metals	PASS / FAIL	mg/kg (ppm), dry weight basis	All EPA 503 metal contaminant limits
Carbon:Nitrogen Ratio		Carbon:Nitrogen	≤25:1
Note: 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). (Table modified from the US Composting Council Landscape Architectural Specifications 2005.)			

D. NOT USED

PART 3 – EXECUTION

3.1 LIMITS AND GRADES

- A. Grade Review: Prior to commencing soil preparation operations, Contractor shall request a review by the District’s Representative to verify specified limits and grades of work completed to date and soil preparation work to commence. Complete the rough grading as necessary to round the top and toe of all slopes, providing naturalized contouring to integrate newly graded areas with the natural topography. Finish grading under this Section shall be completed in accordance with the grades indicated on the plans.

- B. Grading at Existing Trees: Soil work within the dripline of existing trees shall be performed in accordance with tree protection requirements indicated on the plans and Section 32 01 91 Tree Protection and Pruning.

3.2 TOPSOIL PLACEMENT

- A. Depths indicated in this Section are for bidding purposes only. Depth of scarification, height of soil lifts, and depths of incorporation shall be as recommended by the soil testing lab.
- B. Soil Moisture: If soils are saturated, suspend soil work operations until the soil moisture drains to below field capacity.
- C. Subgrade preparation: Excavate planting areas to the proposed subgrade and remove all construction debris and materials.
 - 1. Do not over excavate compacted subgrades of adjacent pavement or structures.
 - 2. Subgrades shall slope approximately parallel to the finished grade and/or toward the subsurface drain lines as shown on the plans.
 - 3. Scarify or rip subgrade to a depth of 7 inches and protect from compaction.
- D. NOT USED
- E. Existing Topsoil to Remain: Except within tree protection zones, in those planting areas where native topsoil is to be left in place, cross rip to a depth of 10 inches. Then incorporate the amendments to a homogeneously blended soil depth of 6 inches.

3.3 NOT USED

3.4 ORGANIC AMENDMENT AND FERTILIZER INCORPORATION

- A. Organic amendment: After topsoil placement and compaction, spread organic amendment at a rate of 6 cubic yards per 1000 square feet, unless otherwise specified by the soils test results.
- B. Fertilizer: Spread uniformly on top of compost at rates determined by the soils test. For bidding purposes only, assume per 1000 square feet:
 - 1. 30 pounds commercial fertilizer (6-20-20)
 - 2. 10 pounds iron sulfate
 - a. Note: Iron sulfate should be applied cautiously, avoiding contact with concrete, since permanent staining may result. Any such stained concrete shall be replaced at Contractor's expense.

- C. Incorporate organic amendment and fertilizer into the top 6 inches of topsoil, until homogeneously blended.

3.5 PLANT PITS

- A. Plant Pit Preparation: Plant pits shall have their sides and bottoms loosened or otherwise broken to prevent glazed or compacted surfaces, and shall be as shown on the planting detail.

3.6 BACKFILL

- A. Backfill Material and Placement: Only unamended soil shall be used beneath the root ball. Cultivate the bottom of plant pits to improve porosity. Backfill around sides of the rootball shall be the amended soil taken from adjacent prepared areas. Spread material excavated from plant pits onto adjacent areas as replacement. Should additional backfill be necessary, a mixture of one third organic amendment/fertilizer mix and two thirds topsoil may be used for the top 12 inches of backfill.

3.7 PLANT PACKETS

- A. Packet Quantities: All container plants shall receive plant packets as follows:

Container Size	Number of Packets
one-gallon plants	one 10-gram packet
five-gallon plants	two 10-gram packets
fifteen-gallon plants	nine 10-gram packets
24-inch box trees	sixteen 10-gram packets
36-inch box trees	twenty-four 10-gram packets

- 1. Space the packets evenly around the root ball in the backfill, 6 - 8 inches from soil surface and 1 inch away from root ball. District’s Representative may require excavation of up to 5% of all plants selected at random for conformance review.

3.8 FINISH GRADING

- A. Grading Operations: Finish grade all irrigated planting areas unless otherwise noted, and remove all rocks and clods over 1 cubic inch to a depth of 1 inch below finish grade. All areas shall be smooth and uniformly graded. All erosion damage during the construction period shall be repaired by the Contractor.

- B. Finish Grades: Unless otherwise noted, all soil finish grades shall be 1 inch below finish grade of walks, pavements, and curbs.

PART 4 – MEASUREMENT AND PAYMENT

- 4.1 All work under this section shall be paid for at the lump sum price bid for LANDSCAPE SOIL PREPARATION and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in LANDSCAPE SOIL PREPARATION, and related incidental work.

END OF SECTION 32 91 13