

## IMPROVEMENT NOTES

- THE STRUCTURAL SECTIONS SHOWN ON THESE PLANS ARE BASED ON R-VALUE TESTS OR MINIMUM STRUCTURAL STANDARDS REQUIRED BY THE CITY, WHICHEVER IS GREATER. ACTUAL STRUCTURAL SECTIONS WILL BE DETERMINED AFTER THE "R" VALUE TEST HAS BEEN CONDUCTED BY A QUALIFIED GEOTECHNICAL ENGINEER ON THE PREPARED SUB-BASE MATERIAL. THE "R" VALUE TEST AND RECOMMENDED ENGINEERED STRUCTURAL SECTION MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO THE INSTALLATION OF BASE AND PAVING MATERIALS. STRUCTURAL SECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH CHAPTER 600 OF THE CALTRANS HIGHWAY DESIGN MANUAL. STRUCTURAL SECTIONS SHALL BE NOTED ON THE "AS-BUILT" DRAWINGS.
- THIS NOTE WILL NOT APPLY TO THOSE AREAS WHERE GRADING IS MINIMAL AND "R" VALUES CAN BE OBTAINED PRIOR TO PLAN APPROVAL. ALL EXISTING STREETS SHALL BE CORE TESTED TO DETERMINE THE EXISTING STRUCTURAL SECTION AND TO DETERMINE THE EXTENT OF OVERLAY OR RECONSTRUCTION NECESSARY TO ACHIEVE THE REQUIRED "R" VALUES. TESTS SHALL BE PERFORMED AT LOCATIONS APPROVED BY THE PUBLIC WORKS DIRECTOR.
- ALL ELECTRICAL, TELEPHONE AND CABLE TELEVISION UTILITIES SHALL BE CONSTRUCTED/CONVERTED TO UNDERGROUND. THE RELOCATION AND/OR UNDERGROUNDING OF EXISTING AND NEW UTILITIES SHALL BE DONE BY THE DEVELOPER/OWNER OF THE PROPERTY AT NO COST TO THE CITY.
- ALL UNDERGROUND UTILITIES AND LATERALS SHALL BE INSTALLED BEFORE CONSTRUCTION OF THE CURB AND GUTTER OR SURFACING OF STREETS.
- A PERMIT SHALL BE OBTAINED FROM THE CITY OF SAN MARCOS FOR ANY EXCAVATION AND/OR CONSTRUCTION WITHIN THE PROPOSED PROJECT AND PUBLIC RIGHT-OF-WAY.
- CONTRACTOR SHALL NOTIFY THE ASSIGNED CITY OF SAN MARCOS ENGINEERING INSPECTOR 48-HOURS PRIOR TO THE BEGINNING OF ANY GRADING/CONSTRUCTION.
- PRECISE LOCATIONS/ELEVATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE NOT KNOWN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING SUFFICIENT EXPLORATIONS TO LOCATE ALL UTILITIES AND SUBSTRUCTURES WHETHER SHOWN ON THE PLANS OR NOT AND TO PROTECT THEM FROM ANY POSSIBLE DAMAGE PRIOR TO AND DURING CONSTRUCTION. THE EXPENSE OF REPAIR OR REPLACEMENT OF SAID UTILITIES AND SUBSTRUCTURES SHALL BE BORNE BY THE CONTRACTOR. CONTRACTOR SHALL NOTIFY THE ENGINEER-OF-WORK OF ANY POTENTIAL CONFLICTS SUFFICIENTLY IN TIME FOR CONSTRUCTION CHANGES TO BE MADE AND APPROVED.
- THE CONTRACTOR SHALL CONTACT THE UNDERGROUND SERVICE ALERT AT 1-800-422-4133 AT LEAST 48 HOURS PRIOR TO EXCAVATING TO VERIFY THE LOCATIONS OF UNDERGROUND FACILITIES OF THE FOLLOWING UTILITIES:

COX COMMUNICATIONS

AT&T

SAN DIEGO GAS & ELECTRIC

VALLECITOS WATER DISTRICT

BUENA SANITATION DISTRICT

VISTA IRRIGATION DISTRICT

A DIG ALERT IDENTIFICATION NUMBER MUST BE ISSUED BEFORE A "PERMIT TO EXCAVATE" IS VALID PER GOVERNMENT CODE SECTION 4216/4217.

8. AN AS-BUILT DRAWING SHALL BE SUBMITTED FOR ALL PUBLIC IMPROVEMENTS PRIOR TO ACCEPTANCE OF SAID IMPROVEMENTS.

9. THE LANDSCAPE ARCHITECT-OF-WORK SHALL BE NOTIFIED WHEN CONSTRUCTION COMMENCES.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION/GRADING OF SLOPES, PADS, STREET GRADES, AND INFRASTRUCTURE IMPROVEMENTS ACCORDING TO THESE PLANS. THE LANDSCAPE ARCHITECT-OF-WORK SHALL BE CONTACTED WHEN CHANGES OR ADDITIONS ARE MADE DURING THE PROGRESS OF CONSTRUCTION OR IF THERE IS A MISUNDERSTANDING OF THESE PLANS OR FIELD STAKES AND AN INTERPRETATION IS NEEDED.

11. CERTIFICATION FROM THE REGISTERED CIVIL ENGINEER STATING THAT THE GRADING HAS BEEN COMPLETED PER THE APPROVED PLAN, AND THE COMPACTION REPORT FROM THE GEOTECHNICAL ENGINEER ON ANY REQUIRED FILL AREAS SHALL BE PROVIDED PRIOR TO BUILDING PERMITS BEING ISSUED.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ANY MONUMENTATION AND/OR BENCHMARKS. ANY MONUMENTATION AND/OR BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR A REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER AS REQUIRED BY THE LAND SURVEYOR'S ACT.

13. ALL EXISTING FEATURES AND STRUCTURES IN CONFLICT WITH THESE PLANS SHALL BE RELOCATED OR REMOVED AT THE DEVELOPER'S EXPENSE.



DIAL TOLL FREE

1-800-422-4133

AT LEAST TWO DAYS  
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

VALLECITOS WATER DISTRICT  
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT  
DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS  
PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE

By: JASON P. HUBBARD, P.E. Date: 6/30/2024  
R.C.E. NO. 60317 exp. 6/30/2024  
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED

VALLECITOS WATER DISTRICT  
PRESSURE ZONE: HGL  
PUMP ZONE:

SAN MARCOS FIRE PROTECTION DISTRICT  
By: JASON NAILON, FIRE MARSHAL Date:   
REQUIRED FIRE HYDRANT FLOW \*(GPM)  
 APPROVED FIRE HYDRANT FLOW \*(GPM)  
 APPROVED FIRE FLOW INCLUDES MITIGATION MEASURES  
\*GALLON PER MINUTE

VALLECITOS WATER DISTRICT IS NOT RESPONSIBLE FOR MAINTENANCE,  
REPAIR, OR REPLACEMENT OF FIRE HYDRANTS UNLESS SPECIFIED  
UNDER SEPARATE AGREEMENT WITH THE JURISDICTIONAL FIRE AGENCY

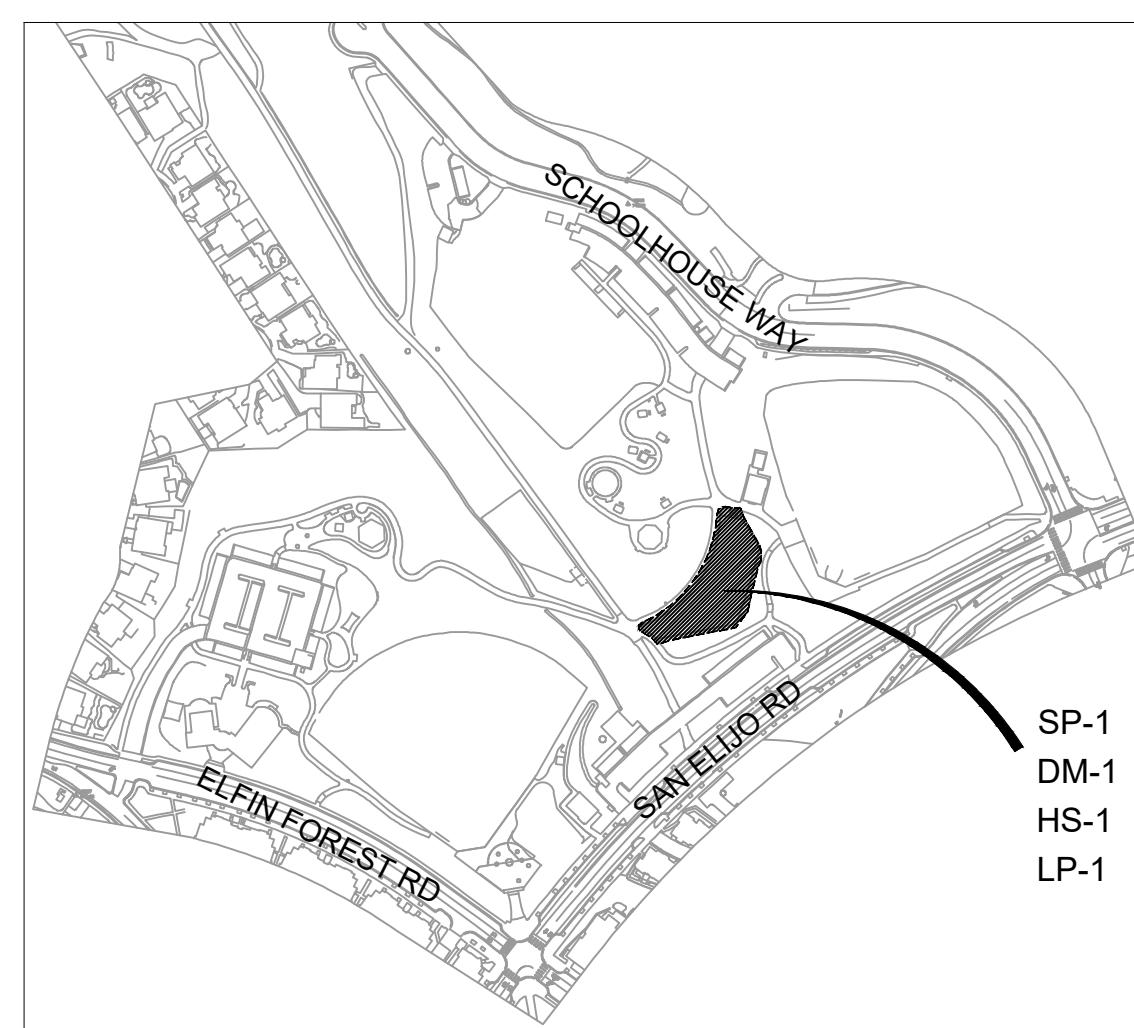
VWD AS-BUILT  
By: NAME (ENGINEER OF WORK) Date:   
R.C.E. NO.  exp. 6/30/20XX

## CONT. IMPROVEMENT NOTES

- MINIMUM 90% COMPACTION IS REQUIRED IN ALL ON-SITE FILL AREAS WITH A MINIMUM OF 95% COMPACTION SIX INCHES (6") BELOW FINISHED SUBGRADE IN A PUBLIC STREET.
- ALL PUBLIC IMPROVEMENTS SHOWN ON THESE IMPROVEMENT PLANS SHALL BE CONSTRUCTED TO THE SATISFACTION OF THE ENGINEERING DIRECTOR PRIOR TO OCCUPANCY OF ANY BUILDING.
- ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF ANY EQUIPMENT SHALL BE LIMITED TO THE HOURS OF 7:00 A.M. TO 4:30 P.M., MONDAY THROUGH FRIDAY. NO WORK SHALL BE PERFORMED ON THE PREMISES ON SATURDAY, SUNDAY OR HOLIDAYS.
- NO PRIVATE IRRIGATION MAINS OR CONTROL VALVES SHALL BE PLACED WITHIN THE PUBLIC RIGHT-OF-WAY.
- CURB RAMPS SHALL BE INSTALLED AT ALL CURB RETURNS PER TITLE 24, PART 2, STATE CHAPTER 71, SITE DEVELOPMENT REQUIREMENTS FOR HANDICAPPED ACCESSIBILITY, SECTION 7103, CURB RAMPS, OF THE CALIFORNIA BUILDING CODE.
- EXCAVATION, FILLS, AND OBSTRUCTIONS IN PUBLIC PLACES SHALL CONFORM TO THE REQUIREMENTS OF CITY ORDINANCE 2022-1521 SUBJECT TO THE APPROVAL OF THE DIRECTOR.
- THESE PLANS HAVE BEEN EXAMINED BY THE CITY'S ENGINEERING DIVISION TO INSURE COMPLIANCE WITH GENERAL ENGINEERING STANDARDS AND THE CITY'S DESIGN STANDARDS AND SPECIFICATIONS.
- THE LANDSCAPE ARCHITECT-OF-WORK SHALL BEAR THE SOLE RESPONSIBILITY OF THE MATHEMATICAL DATA AND ACCURACY OF DESIGN SHOWN HEREON.
- IF THE IMPROVEMENTS SHOWN ON THIS PLAN HAVE NOT BEEN CONSTRUCTED AND ACCEPTED BY THE CITY WITHIN TWO (2) YEARS OF THE DATE OF PLAN APPROVAL BY THE CITY ENGINEER, THESE PLANS WILL BE SUBJECT TO REVIEW BY THE CITY'S ENGINEERING DIVISION FOR CONFORMANCE WITH CURRENT CITY STANDARDS, POLICIES AND/OR ADDITIONAL REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, RELOCATION OR REPLACEMENT OF ALL STRIPING, SIGNING OR TRAFFIC DETECTOR LOOPS AS REQUIRED BY THE ENGINEERING DIRECTOR.
- STREET SIGNING AND STRIPING ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE SUBJECT TO CITY OF SAN MARCOS ENGINEERING DEPARTMENT APPROVAL.
- DUST CONTROL MEASURES, SUCH AS THE PERIODIC WETTING DOWN OF THE BARE AND EXPOSED AREAS, SHALL BE USED AT ALL TIMES DURING CONSTRUCTION TO THE SATISFACTION OF THE ENGINEERING AND/OR BUILDING INSPECTORS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE ADJOINING PUBLIC STREETS AND RIGHT-OF-WAYS IN A CLEAN AND DUST FREE CONDITION WITHIN THE LIMITATION OF THE CITY MUNICIPAL CODE SECTION 14.15.030 "ILICIT DISCHARGES PROHIBITED." THIS SECTION OF THE CODE PROHIBITS THE "WASHING DOWN" OF A STREET INTO A PUBLIC STORM DRAIN. THE CONTINUOUS USE OF STREET SWEEPING MACHINES MAY BE ADVISABLE.
- THE LANDSCAPE ARCHITECT-OF-WORK IS NOT RESPONSIBLE FOR GRADING OPERATIONS OR GRADING DONE. THE CONTRACTOR IS SOLELY RESPONSIBLE.
- A PERMIT MUST BE OBTAINED FROM THE SAN MARCOS FIRE DEPARTMENT PRIOR TO ANY BLASTING. CITY PERMITS ARE REQUIRED PRIOR TO ANY CONSTRUCTION, EXCAVATION, STORAGE OF MATERIALS, OR ANY OTHER ENCROACHMENTS.
- CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUALLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, THE LANDSCAPE ARCHITECT, AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OR WORK ON THIS PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, LANDSCAPE ARCHITECT, OR CITY.
- EROSION CONTROL, INCLUDING RIP-RAP, INTERIM SLOPE PROTECTION, SANDBAGS OR OTHER EROSION CONTROL MEASURES SHALL BE PROVIDED AS NECESSARY TO CONTROL SEDIMENT AND SILT FROM THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL FACILITIES THROUGHOUT THE DEVELOPMENT OF THE PROJECT.
- A TRAFFIC CONTROL PLAN, INCLUDING THE LAYOUT OF CONSTRUCTION WARNING AND DETOUR SIGNS, SHALL BE SUBMITTED TO THE ENGINEERING DEPARTMENT FOR APPROVAL A MINIMUM OF 14 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. TRAFFIC CONTROL SHALL BE IMPLEMENTED BEFORE ANY WORK IS STARTED.
- IN NO CASE SHALL THE CITY BE RESPONSIBLE FOR CONSTRUCTION COSTS FOR THESE IMPROVEMENTS, INCLUDING THE UNDERGROUNDING OF EXISTING AND NEW DRY UTILITIES, OR ANY NECESSARY REPAIRS.

# CITY OF SAN MARCOS

## IMPROVEMENT PLANS FOR SAN ELIJO HILLS PARK - DOG PARK



LOCATION MAP  
N.T.S.



VICINITY MAP  
N.T.S.

## SITE ADDRESS

1105 ELFIN FOREST ROAD

## ASSESSOR PARCEL NUMBERS

223-040-19

## BASIS OF BEARING

THE BASIS OF BEARING FOR THIS PROJECT IS THE NAD 83, ZONE 6, GRID BEARING BETWEEN STATION ES 0322" AND "SM 123' PER RECORD OF SURVEY NO. 13928; I.E. N 37° 26' 07" E  
THE COMBINED SCALE FACTOR AT STATION "ES 0322" 0.999941337 GRID DISTANCE = GROUND DISTANCE X COMBINED SCALE FACTOR

## PROJECT DIRECTORY

APPLICANT: SAN ELIJO HILLS FOUNDATION  
1277 SAN ELIJO ROAD, SAN MARCOS, CA  
9207860-471-2365  
CONTACT PERSON: JASON SIMMONS  
EMAIL: JASON.SIMMONS@CCICONNECT.COM

LANDSCAPE ARCHITECT/ APPLICANT'S REPRESENTATIVE: VDLA LANDSCAPE ARCHITECTS  
462 STEVENS AVE., SUITE 107  
SOLANA BEACH, CA 92075  
TEL: (619) 294-8484 EXT. 39  
FAX: (619) 574-0626  
CONTACT PERSON: WEI WANG  
EMAIL: WWANG@VDLA.US

ENGINEER OF WORK: NOVA ENGINEERING  
4373 VIEWRIDGE AVENUE, SUITE A  
SAN DIEGO, CA 92123  
CONTACT PERSON: THOMAS FITZMAURICE  
TEL: (858) 752-2393  
EMAIL: TFITZMAURICE@NOVA-ENG.COM

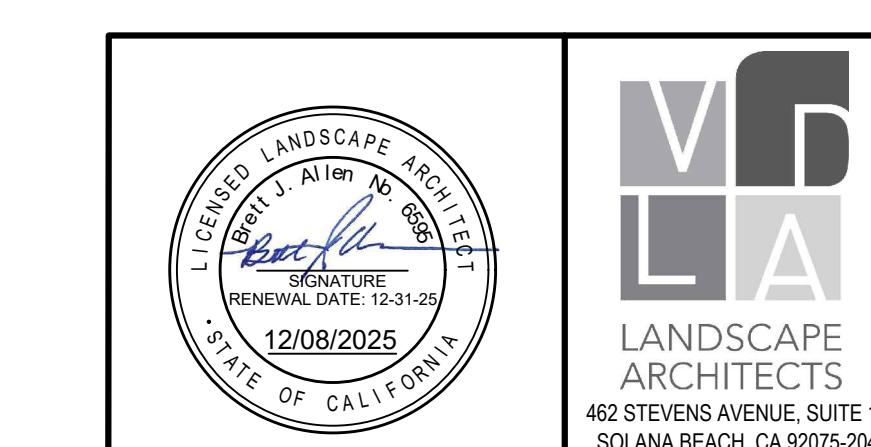
LANDSCAPE ARCHITECT OF WORK				
By: _____	License No.: _____ exp.: _____			
Date: _____	RECOMMENDED FOR APPROVAL			
By: _____	Approved by: Andrew Proudfit, Landscape Inspection Supervisor			
Date: _____	APPROVED FOR CONSTRUCTION			
By: _____	BENCH MARK			
Description: _____	Location: _____			
Location: _____	Record From: _____ Datum: _____			
Record From: _____ Datum: _____	Elev.: _____			

## DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE LANDSCAPE ARCHITECT FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE LANDSCAPE DESIGN OF THIS PROJECT, SHEET 1 THRU 14, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN MARCOS IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME AS LANDSCAPE ARCHITECT OF MY RESPONSIBILITIES FOR THE PROJECT LANDSCAPE DESIGN.

  
BRETT ALLEN, LLA #6595 EXP. 12/31/2025

12/08/2025  
DATE



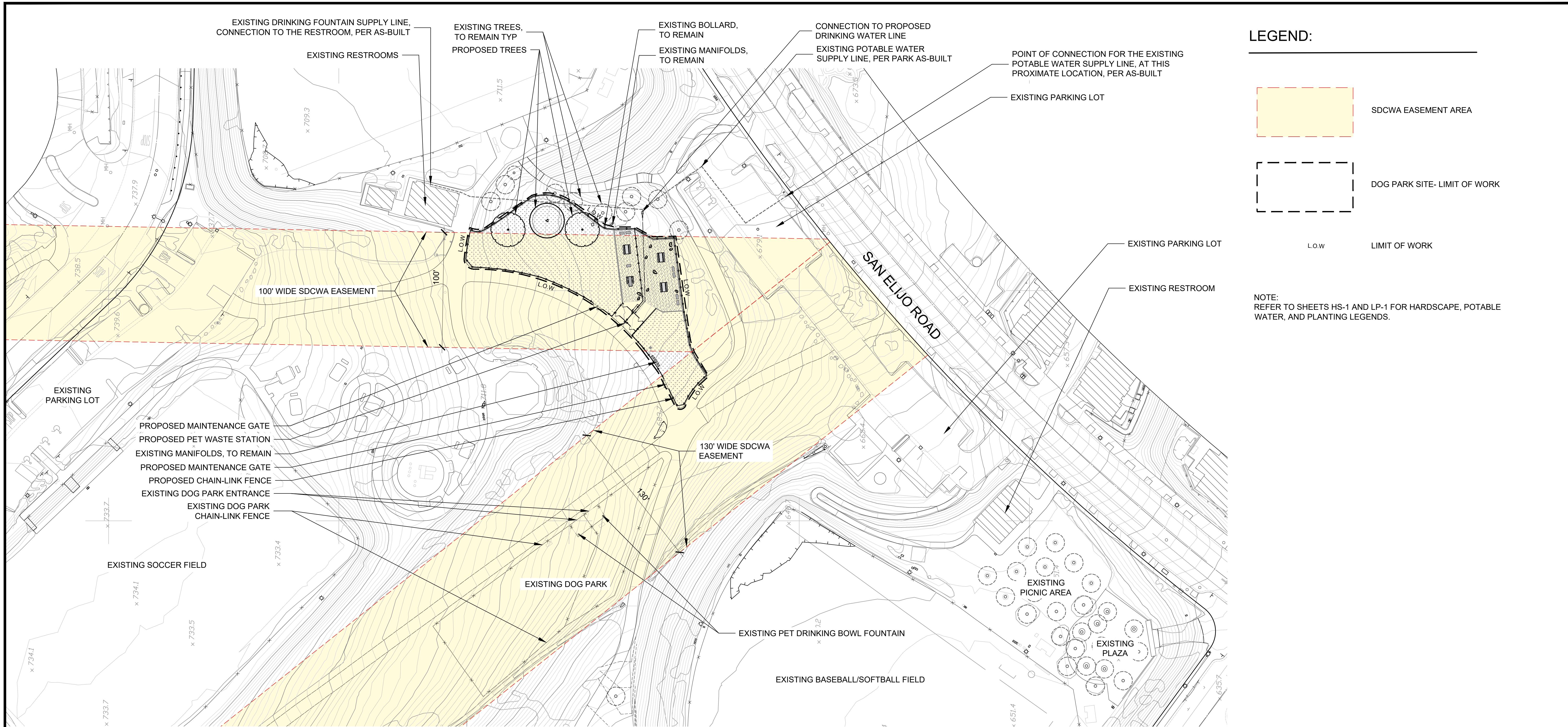
LANDSCAPE ARCHITECT OF WORK AS-BUILT CERTIFICATE AS THE LANDSCAPE ARCHITECT OF WORK, I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE IMPROVEMENTS SHOWN ON THIS SET OF CONSTRUCTION PLANS, SHEET XXXX THROUGH SHEET XXXX, HAVE BEEN INSTALLED AND CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THESE AS-BUILT PLANS, INCLUDING ALL APPROPRIATE STANDARDS AND ANY DISCRETIONARY APPROVAL(S) FOR THE PROJECT	INSPECTED AND RECOMMENDED FOR ACCEPTANCE
Public Works Inspector _____ Date _____	APPROVED AS RECORD PLAN
DATE: 12/08/2025 BRETT ALLEN, LLA License No. 6595, EXP. 12/31/2025	ISAAC ETCHAMENDY 81294 9/30/2026
CITY OF SAN MARCOS LANDSCAPE PLANS FOR: SAN ELIJO HILLS PARK - DOG PARK COVER SHEET	
Planning Project No. YYY-XXXX SDPX-XXXX MF-XXXX	City Drawing No. PXX-XXXX

FOR APPROVAL

## GENERAL NOTES:

THESE PLANS WERE PREPARED USING BASE INFORMATION PREPARED BY NOVA ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF THIS BASE COMPARED TO ACTUAL FIELD CONDITIONS PRIOR TO ORDERING MATERIALS AND/OR BEGINNING WORK AND IMMEDIATELY NOTIFYING THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. IN THE EVENT THAT THE CONTRACTOR FAILS TO VERIFY THE ACCURACY OF THE BASE INFORMATION AND/OR FAILS TO IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF DISCREPANCIES PRIOR TO ORDERING MATERIALS AND/OR BEGINNING WORK, THEN THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY AND ALL ADDITIONAL LABOR AND MATERIALS AS DIRECTED BY THE LANDSCAPE ARCHITECT TO RESOLVE SUCH DISCREPANCIES AT NO ADDITIONAL COST TO THE OWNER.

- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, AT NO ADDITIONAL COST TO THE OWNER.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, WITH SUPPLEMENTS, THE STANDARD PLANS AND SPECIFICATIONS OF THE CITY OF SAN MARCOS MUNICIPAL CODE, LANDSCAPE STANDARDS AND LANDSCAPE AND IRRIGATION STANDARD PLANS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE JOB SITE AND THE LOCATION OF ALL UNDERGROUND FACILITIES SHOWN OR NOT SHOWN ON THESE PLANS. NEITHER THE LANDSCAPE ARCHITECT, ENGINEER, OR THE CITY OF SAN MARCOS WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE UNDERGROUND FACILITIES.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS AND CALL FOR INSPECTIONS 48 HOURS PRIOR TO REQUIRED INSPECTIONS.
- ADJACENT STREETS ARE TO BE CLEANED DAILY OF ALL DIRT AND DEBRIS THAT ARE THE RESULT OF CONSTRUCTION OPERATION. CONTRACTOR SHALL MAINTAIN DUST CONTROL AT ALL TIMES.
- HOURS OF CONSTRUCTION OPERATION ARE 7 A.M. TO 6 P.M. MONDAY THROUGH FRIDAY.
- NO CHANGES OR SUBSTITUTION TO BE MADE WITHOUT REVISION TO THE PLANS AND APPROVED BY THE CITY OF SAN MARCOS.



DIAL TOLL FREE  
1-800-422-4133  
AT LEAST TWO DAYS  
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

VALLECITO'S WATER DISTRICT  
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT  
DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS  
PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE  
By: JASON P. HUBBARD, P.E. Date: 6/30/2024  
DISTRICT ENGINEER  
R.C.E. NO. 60317 exp.: 6/30/2024  
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED

VALLECITO'S WATER DISTRICT  
PRESSURE ZONE: \_\_\_\_\_ HGL  
PUMP ZONE: \_\_\_\_\_

SAN MARCOS FIRE PROTECTION DISTRICT  
By: JASON NAILON, FIRE MARSHAL Date: \_\_\_\_\_  
REQUIRED FIRE HYDRANT FLOW \* (GPM)  
APPROVED FIRE HYDRANT FLOW \* (GPM)  
□ APPROVED FIRE FLOW INCLUDES MITIGATION MEASURES  
\*GALLON PER MINUTE  
VALLECITO'S WATER DISTRICT IS NOT RESPONSIBLE FOR MAINTENANCE,  
REPAIR, OR REPLACEMENT OF FIRE HYDRANTS UNLESS SPECIFIED  
UNDER SEPARATE AGREEMENT WITH THE JURISDICTIONAL FIRE AGENCY

VWD AS-BUILT  
By: NAME (ENGINEER OF WORK) Date: \_\_\_\_\_  
R.C.E. NO. \_\_\_\_\_ exp.: 6/30/20XX

CITY APPROVED CHANGES

△NO.	DESCRIPTION	AFFECTED SHEETS	AOW APP'D	APP'D BY	DATE
	JASON NAILON, FIRE MARSHAL REQUIRED FIRE HYDRANT FLOW * (GPM) APPROVED FIRE HYDRANT FLOW * (GPM) □ APPROVED FIRE FLOW INCLUDES MITIGATION MEASURES *GALLON PER MINUTE VALLECITO'S WATER DISTRICT IS NOT RESPONSIBLE FOR MAINTENANCE, REPAIR, OR REPLACEMENT OF FIRE HYDRANTS UNLESS SPECIFIED UNDER SEPARATE AGREEMENT WITH THE JURISDICTIONAL FIRE AGENCY				

APPROVAL VALID FOR TWO (2) YEARS FROM DATE

LANDSCAPE ARCHITECT OF WORK	
By:	License No.: _____ exp.: _____ Date: _____
RECOMMENDED FOR APPROVAL	
By: Andrew Proud, Landscape Inspection Supervisor Date: _____	
APPROVED FOR CONSTRUCTION	
By: Isaac Etchamendy, City Engineer R.C.E.: _____ exp.: _____ Date: _____	

BENCH MARK	
Description: _____	YYXX-XXXX
Location: _____	SDPX-XXXX
Record From: _____ Datum: _____	MF XXXX

CITY OF SAN MARCOS	
LANDSCAPE PLANS FOR: SAN ELIJO HILLS PARK - DOG PARK SITE PLAN	City Drawing No.: Pxx-XXXX
FOR APPROVAL	
ISaac Etchamendy 81294 9/30/2026 BRETT ALLEN, LLA License No. 6595, EXP. 12/31/2025 DATE: 12/08/2025	
APPROVED AS RECORD PLAN	
Public Works Inspector Date APPROVED AS RECORD PLAN	
ISaac Etchamendy 81294 9/30/2026 DATE: _____	
KEY MAP NOT TO SCALE	
LICENCED LANDSCAPE ARCHITECT Brett J. Allen No. 6595 RENEWAL DATE: 12-31-25 STATE OF CALIFORNIA 12/08/2025 462 STEVENS AVENUE, SUITE 107 SOLANA BEACH, CA 92075-2042 619-294-8684; FAX 619-574-0525	

**GENERAL DEMOLITION NOTES:**

1. THESE PLANS WERE PREPARED USING BASE INFORMATION PROVIDED BY NOVA ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF THIS BASE COMPARED TO ACTUAL FIELD CONDITIONS PRIOR TO ORDERING MATERIALS AND/OR BEGINNING WORK AND IMMEDIATELY NOTIFYING THE CITY REPRESENTATIVE OF ANY DISCREPANCIES. IN THE EVENT THAT THE CONTRACTOR FAILS TO VERIFY THE ACCURACY OF THE BASE INFORMATION AND/OR FAILS TO IMMEDIATELY NOTIFY THE CITY REPRESENTATIVE OF DISCREPANCIES PRIOR TO ORDERING MATERIALS AND/OR BEGINNING WORK, THEN THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY AND ALL ADDITIONAL LABOR AND MATERIALS AS DIRECTED BY THE CITY REPRESENTATIVE TO RESOLVE SUCH DISCREPANCIES AT NO ADDITIONAL COST.
2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, AT NO ADDITIONAL COST TO THE OWNER.
3. THE CONTRACTOR SHALL PROTECT IN PLACE EXISTING CONDITIONS TO REMAIN SUCH AS TREES, STRUCTURES, SURVEY MONUMENTS, UTILITIES, ETC. DAMAGE TO EXISTING CONDITIONS TO REMAIN CAUSED BY CONTRACTOR SHALL BE RETURNED TO EQUAL OR BETTER THAN ORIGINAL CONDITION AS DIRECTED BY CITY REPRESENTATIVE AT NO COST TO THE OWNER.
4. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR REPLACING ANY EQUIPMENT AND/OR MATERIALS OUTSIDE OF THE LIMIT OF WORK, WHICH ARE DAMAGED DURING CONSTRUCTION WITH MATERIALS LIKE-KIND, AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTRACTOR SHALL LEGALLY DISPOSE OF ITEMS AND EQUIPMENT TO BE REMOVED OFF-SITE UNLESS OTHERWISE NOTED OR DIRECTED BY CITY REPRESENTATIVE.
6. REFER TO THE DEMOLITION SPECIFICATIONS FOR EXECUTION PROCEDURES.
7. DEMOLITION SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY PERMITTING AND/OR PROCESSING OF PLANS.

**DEMOLITION LEGEND**

SYMBOL	DESCRIPTION
	EXISTING TURF, TO REMOVE
	EXISTING TURF, TO REMAIN
	EXISTING DECOMPOSED GRANITE, TO REMAIN
	EXISTING CONCRETE MOW CURB, TO REMOVE
	EXISTING CONCRETE MOW CURB, TO REMAIN
	EXISTING BOLLARD, TO REMAIN

**DEMOLITION NOTES:**

- D-1 EXISTING IRRIGATION MANIFOLD – APPROXIMATE LOCATION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE IRRIGATION VALVES SERVING AREAS BOTH INSIDE AND OUTSIDE THE PROJECT LIMITS REMAIN FULLY FUNCTIONAL THROUGHOUT THE DURATION OF THE PROJECT, INCLUDING BUT NOT LIMITED TO DURING DEMOLITION AND CONSTRUCTION PHASES.
- D-2 EXISTING TURF AREA TO BE REMOVED: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND LEGAL DISPOSAL OF THE EXISTING TURF WITHIN THE DEMOLITION BOUNDARY. NEW SURFACE MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE HARDCAPE PLAN.
- D-3 SPRINKLER HEAD ADJUSTMENT – APPROXIMATE AREA: THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, RELOCATING, OR REPLACING EXISTING SPRINKLER HEADS WITHIN THIS AREA TO ENSURE THEY ARE LOCATED OUTSIDE THE DEMOLITION BOUNDARY. THE CONTRACTOR SHALL VERIFY AND ADJUST ALL SPRINKLER HEADS TO MAINTAIN PROPER HEAD-TO-HEAD COVERAGE FOR TURF IRRIGATION. ANY DAMAGE TO IRRIGATION EQUIPMENT CAUSED DURING THIS PROCESS SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY AND SHALL BE REPAIRED WITH LIKE-KIND MATERIALS TO ENSURE THE IRRIGATION SYSTEM REMAINS FULLY OPERATIONAL FOR THE DURATION OF THE PROJECT.
- D-4 EXISTING CONCRETE MOW CURB: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND LEGAL DISPOSAL OF THE EXISTING CONCRETE MOW CURB, AS INDICATED ON THE PLANS. NEW SURFACE MATERIAL SHALL BE INSTALLED IN THIS AREA PER THE HARDCAPE PLAN.
- D-5 EXISTING HORSESHOE PIT PLAY EQUIPMENT WITHIN THE DG AREA: THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND LEGAL DISPOSAL OF THE HORSESHOE PIT PLAY EQUIPMENT. ONCE REMOVED, THE CONTRACTOR SHALL REFILL THE AFFECTED AREA WITH DG AND ENSURE THE SURFACE IS FLUSH WITH THE SURROUNDING AREA.

**SECTION 024100 DEMOLITION**

**PART 1 - GENERAL**

**1.01 SUMMARY:**

A. THIS SECTION SPECIFIES DEMOLITION AND REMOVAL OF PAVEMENT, PLANTING, IRRIGATION LINES INCLUDING ALL APPURTENANCES RELATED OR CONNECTED THERETO AND AS REQUIRED AND PER THE DRAWINGS.

**1.02 RELATED WORK:**

A. OTHER SECTIONS OF THE SPECIFICATIONS REFER TO WORK IN THIS SECTION. THE CONTRACTOR IS TO REVIEW THE DRAWINGS, GENERAL AND TECHNICAL SPECIFICATIONS AND SITE CONDITIONS TO FAMILIARIZE HIM/HERSELF WITH ALL THE PROJECT REQUIREMENTS AND TO INSURE HIS WORK IS FULLY COORDINATED.

B. SAFETY REQUIREMENTS: COMPLY WITH REQUIREMENTS OF SPECIAL PROVISIONS WITHIN THE CONTRACT BID DOCUMENT AGREEMENT.

**1.03 PROTECTION:**

A. PERFORM DEMOLITION IN SUCH MANNER AS TO ELIMINATE HAZARDS TO PERSONS AND PROPERTY; TO MINIMIZE INTERFERENCE WITH USE OF ADJACENT AREAS, UTILITIES AND STRUCTURES OR INTERRUPTION OF USE OF SUCH UTILITIES; AND TO PROVIDE FREE PASSAGE TO AND FROM SUCH ADJACENT AREAS OF STRUCTURES.

B. PROVIDE SAFEGUARDS, INCLUDING WARNING SIGNS, BARRICADES, TEMPORARY FENCES, WARNING LIGHTS, AND OTHER SIMILAR ITEMS THAT ARE REQUIRED FOR PROTECTION OF ALL PERSONNEL DURING DEMOLITION AND REMOVAL OPERATIONS. COMPLY WITH REQUIREMENTS OF SPECIAL PROVISIONS WITHIN THE CONTRACT BID DOCUMENT AGREEMENT.

C. MAINTAIN FENCES, BARRICADES, LIGHTS, AND OTHER SIMILAR ITEMS AROUND EXPOSED EXCAVATIONS UNTIL SUCH EXCAVATIONS HAVE BEEN COMPLETELY FILLED.

D. REFER TO SPECIAL ENVIRONMENTAL PROTECTION AND MEASURES FOR ADDITIONAL REQUIREMENTS. PREVENT THE CREATION AND DISPERSION OF FUGITIVE DUST, FLYING PARTICLES AND AIRBORNE POLLUTION.

E. IN ADDITION TO PREVIOUSLY LISTED FIRE AND SAFETY RULES TO BE OBSERVED IN PERFORMANCE OF WORK, INCLUDE FOLLOWING:

1. WHEREVER A CUTTING TORCH OR OTHER EQUIPMENT THAT MIGHT CAUSE A FIRE IS USED, PROVIDE AND MAINTAIN FIRE EXTINGUISHERS NEARBY READY FOR IMMEDIATE USE. INSTRUCT ALL POSSIBLE USERS IN USE OF FIRE EXTINGUISHERS.

**PART 2 - PRODUCTS (NOT USED)**

**PART 3 - EXECUTION**

**3.01 DEMOLITION:**

A. COMPLETELY DEMOLISH AND REMOVE CURBS, TURF, AND ANY REQUIRED STRUCTURES AS REQUIRED AND SHOWN ON THE DRAWINGS.

B. DEBRIS, INCLUDING CONCRETE, STONE, METALS AND SIMILAR MATERIALS SHALL BECOME PROPERTY OF CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR DAILY, OFF THE PARK PROPERTY, OR IN AN APPROVED ON-SITE RECEPTACLE SUCH AS A DUMPSTER AS MAY BE DESIGNATED BY THE CITY.

**3.02 CLEAN UP:**

A. ON COMPLETION OF WORK OF THIS SECTION AND AFTER REMOVAL OF ALL DEBRIS, LEAVE SITE IN CLEAN CONDITION SATISFACTORY TO CITY REPRESENTATIVE. CLEAN UP SHALL INCLUDE OFF THE PARK PROPERTY DISPOSAL OF ALL ITEMS AND MATERIALS NOT REQUIRED TO REMAIN PROPERTY OF THE CITY OF SOLANA BEACH AS WELL AS ALL DEBRIS AND RUBBISH RESULTING FROM DEMOLITION OPERATIONS. SEE SPECIAL PROVISIONS FOR USE OF DUMPSTERS IN THE CITY.

**END OF SECTION 024100**

**0 5' 10' 20' 30' 40' NORTH**

**CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITY AND LANDSCAPE ARCHITECT 48 HOURS PRIOR TO START OF DEMOLITION. CONTRACTOR SHALL OBTAIN TREE PRESERVATION RECOMMENDATIONS FROM THE CITY ARBORIST PRIOR TO STARTING DEMOLITION.**

**IN THE EVENT THAT THE CONTRACTOR FAILS TO OBTAIN AND FOLLOW TREE PRESERVATION RECOMMENDATIONS OF THE CITY ARBORIST, THEN THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR DAMAGE TO EXISTING TREES TO REMAIN AND SHALL REPLACE DAMAGED TREES WITH MATERIALS OF EQUAL OR BETTER THAN ORIGINAL CONDITION AS DIRECTED BY CITY REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.**

**LANDSCAPE ARCHITECT OF WORK**

By: _____	
License No.: _____ exp.: _____	
Date: _____	
RECOMMENDED FOR APPROVAL	
By: Andrew Proud, Landscape Inspection Supervisor	
Date: _____	
APPROVED FOR CONSTRUCTION	
By: Isaac Etchamendy, City Engineer	
R.C.E.: _____ exp.: _____	
Date: _____	

**BENCH MARK**

Description: _____
Location: _____
Record From: _____ Datum: _____

**CITY OF SAN MARCOS**

**LANDSCAPE PLANS FOR:**

**SAN ELIJAH HILLS PARK - DOG PARK DEMOLITION PLAN**

**FOR APPROVAL**



DIAL TOLL FREE  
1-800-422-4133  
AT LEAST TWO DAYS  
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

VALLECITOS WATER DISTRICT  
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT  
DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS  
PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE  
By: JASON P. HUBBARD, P.E.  
Date: 6/30/2024  
R.C.E. NO. 60317 exp.: 6/30/2024  
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED

VALLECITOS WATER DISTRICT

PRESSURE ZONE: \_\_\_\_\_ HGL  
PUMP ZONE: \_\_\_\_\_

SAN MARCOS FIRE PROTECTION DISTRICT  
By: JASON NAILON, FIRE MARSHAL  
Date: \_\_\_\_\_  
REQUIRED FIRE HYDRANT FLOW \_\_\_\_\_\*(GPM)  
APPROVED FIRE HYDRANT FLOW \_\_\_\_\_\*(GPM)  
□ APPROVED FIRE FLOW INCLUDES MITIGATION MEASURES  
\*(GALLON PER MINUTE)

VALLECITOS WATER DISTRICT NOT RESPONSIBLE FOR MAINTENANCE,  
REPAIR, OR REPLACEMENT OF FIRE HYDRANTS UNLESS SPECIFIED  
UNDER SEPARATE AGREEMENT WITH THE JURISDICTIONAL FIRE AGENCY  
By: NAME (ENGINEER OF WORK)  
Date: \_\_\_\_\_  
R.C.E. NO. \_\_\_\_\_ exp.: 6/30/20XX

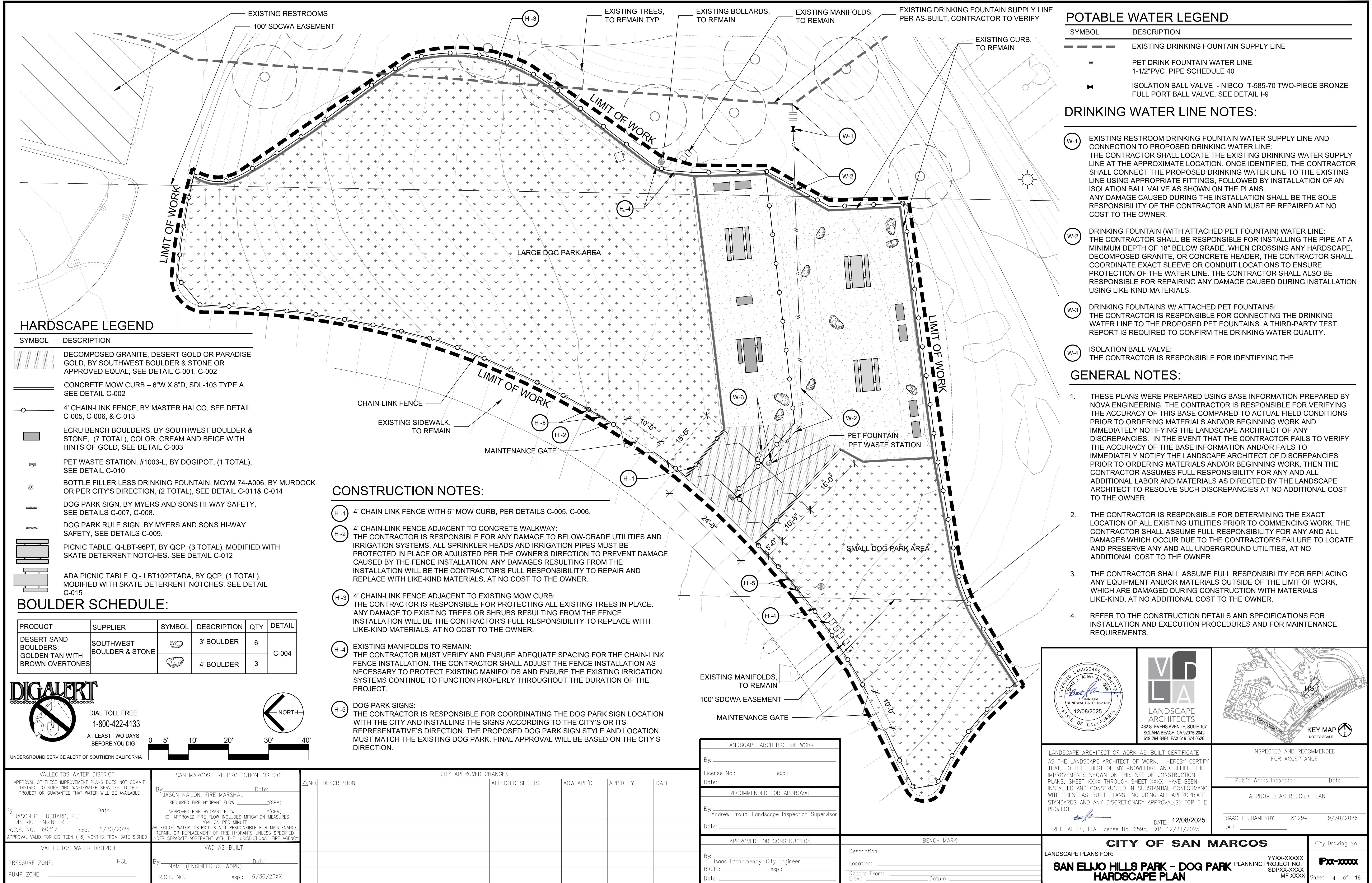
CITY APPROVED CHANGES  
△ NO. DESCRIPTION AFFECTED SHEETS AOW APP'D APP'D BY DATE

RECOMMENDED FOR APPROVAL  
By: Andrew Proud, Landscape Inspection Supervisor  
Date: \_\_\_\_\_

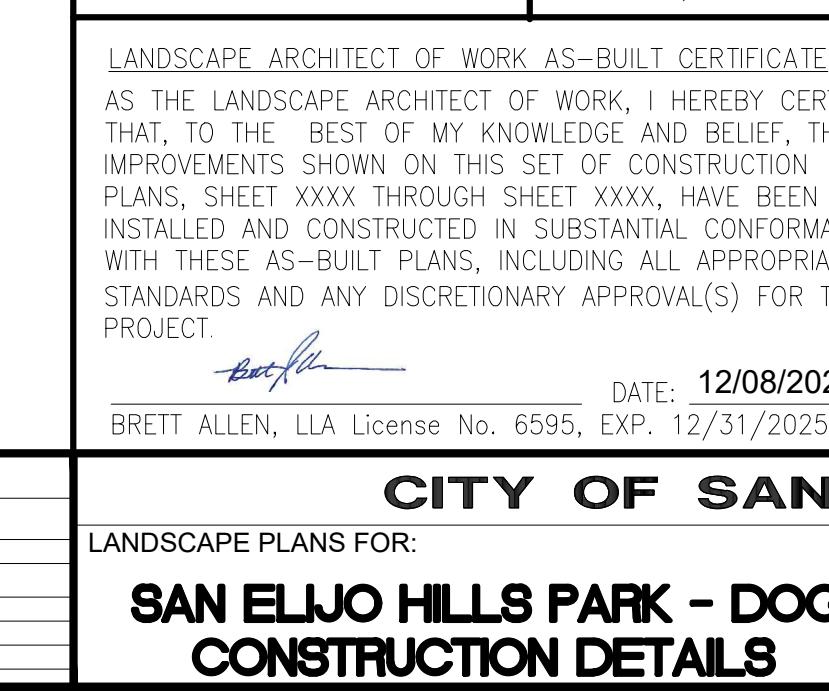
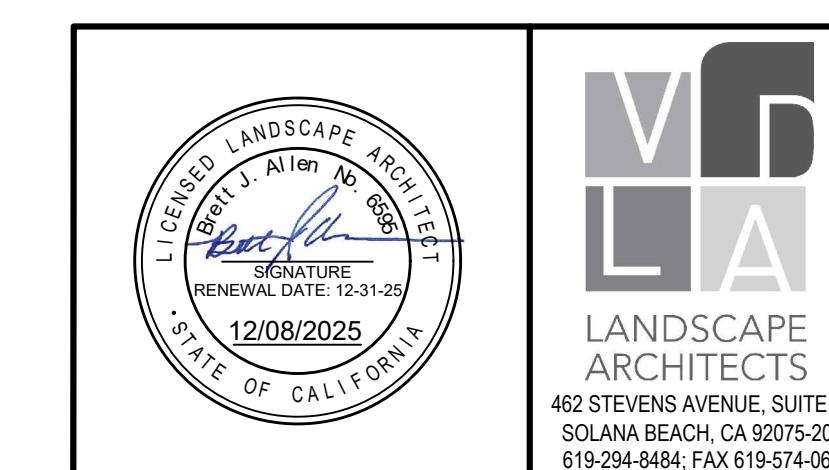
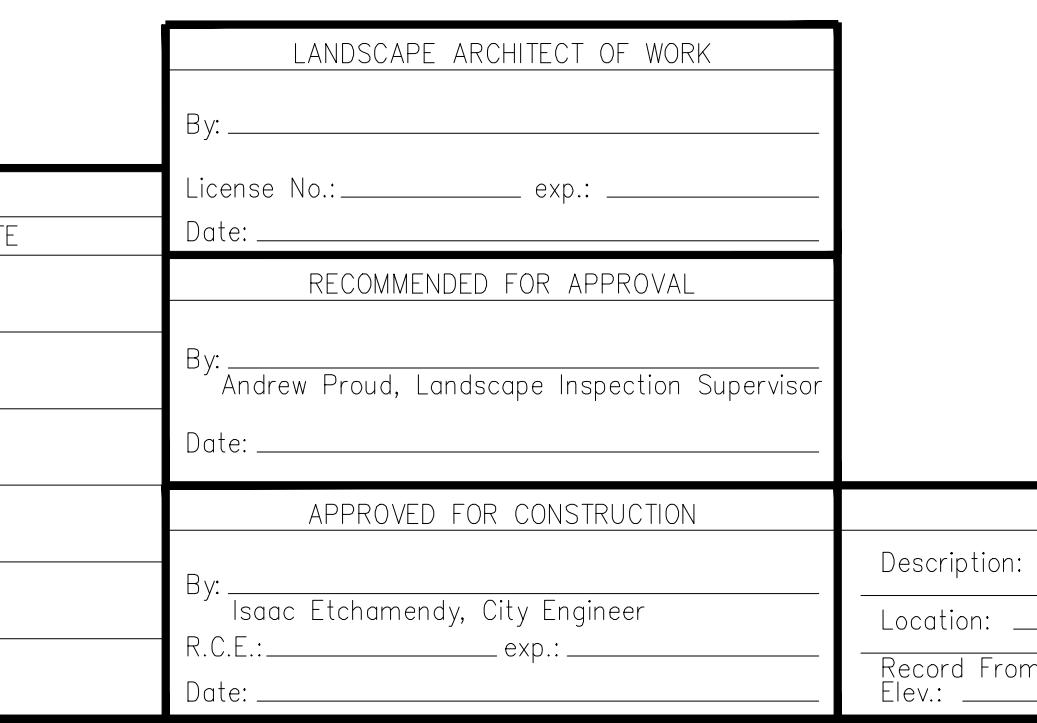
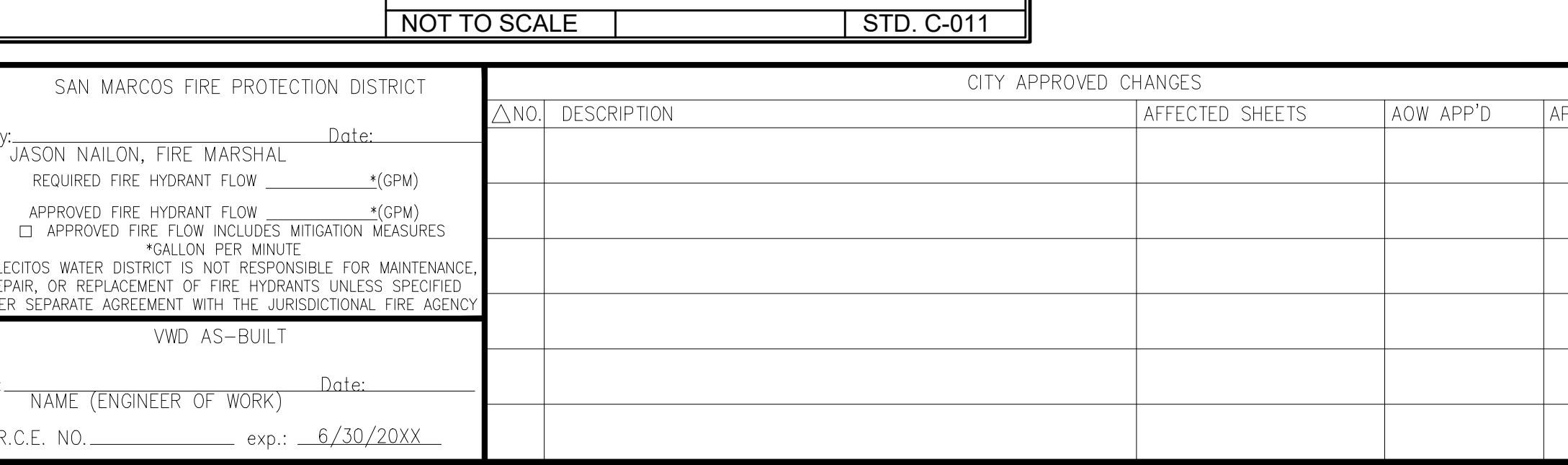
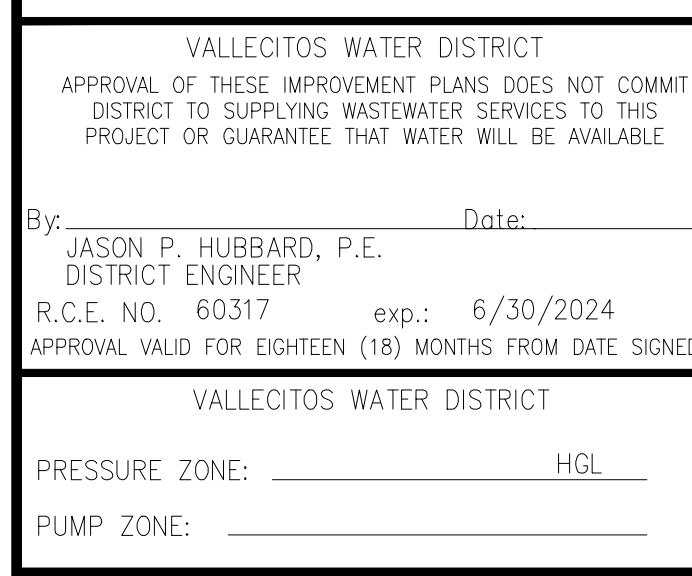
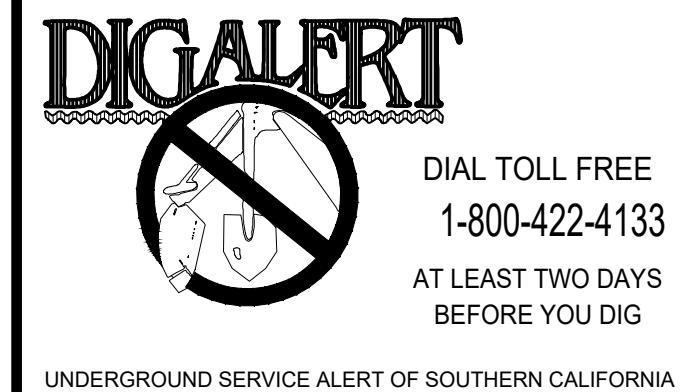
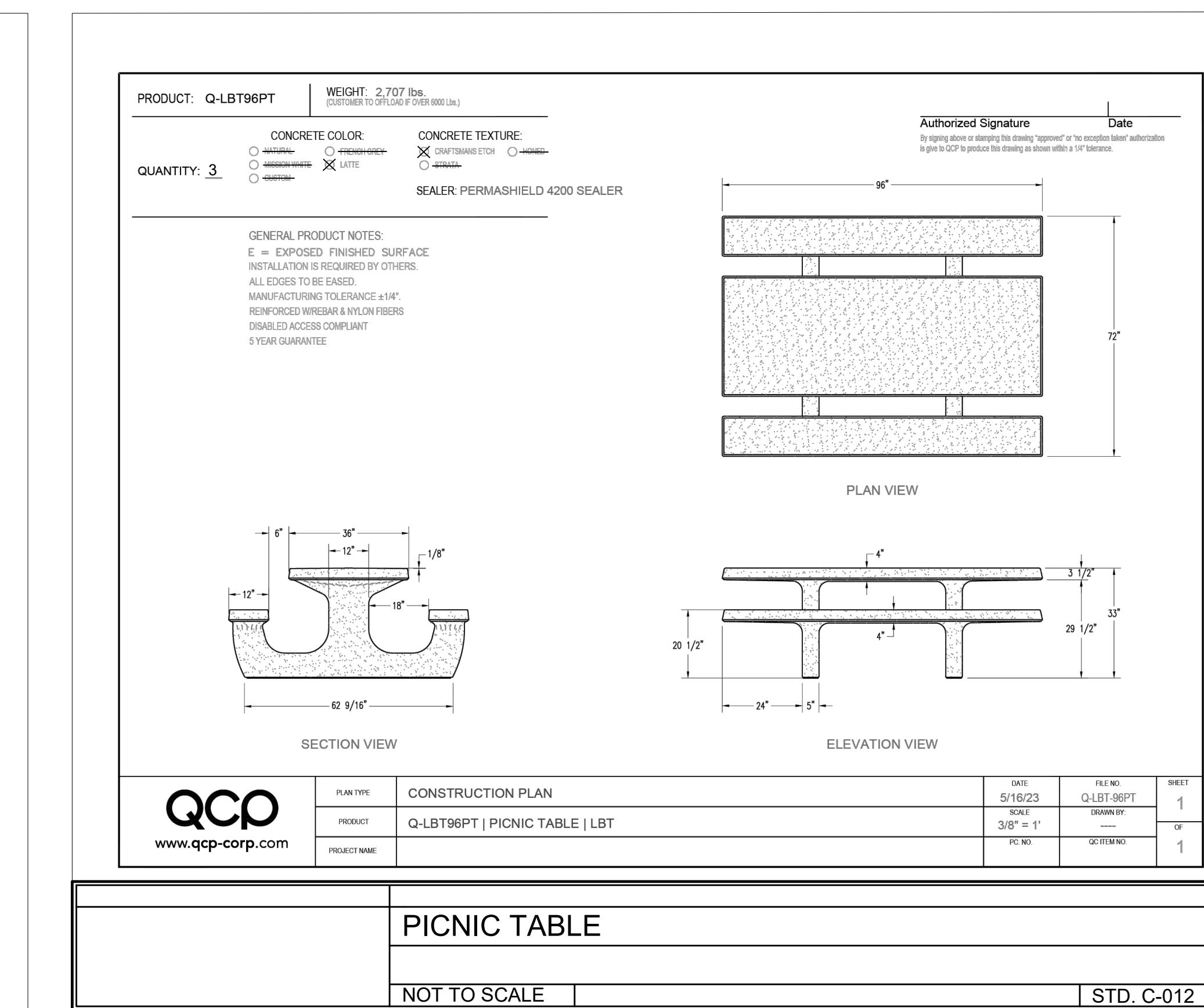
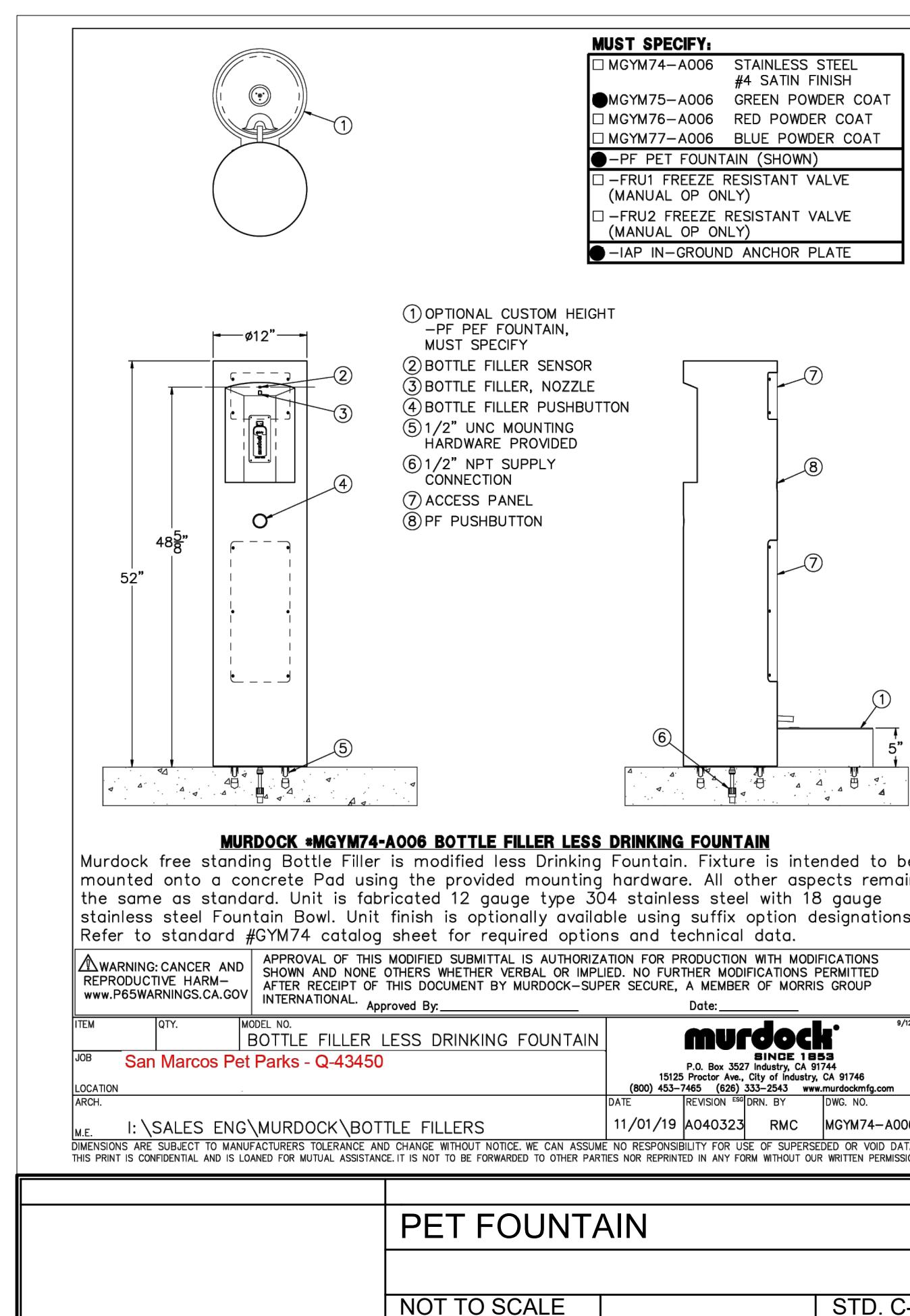
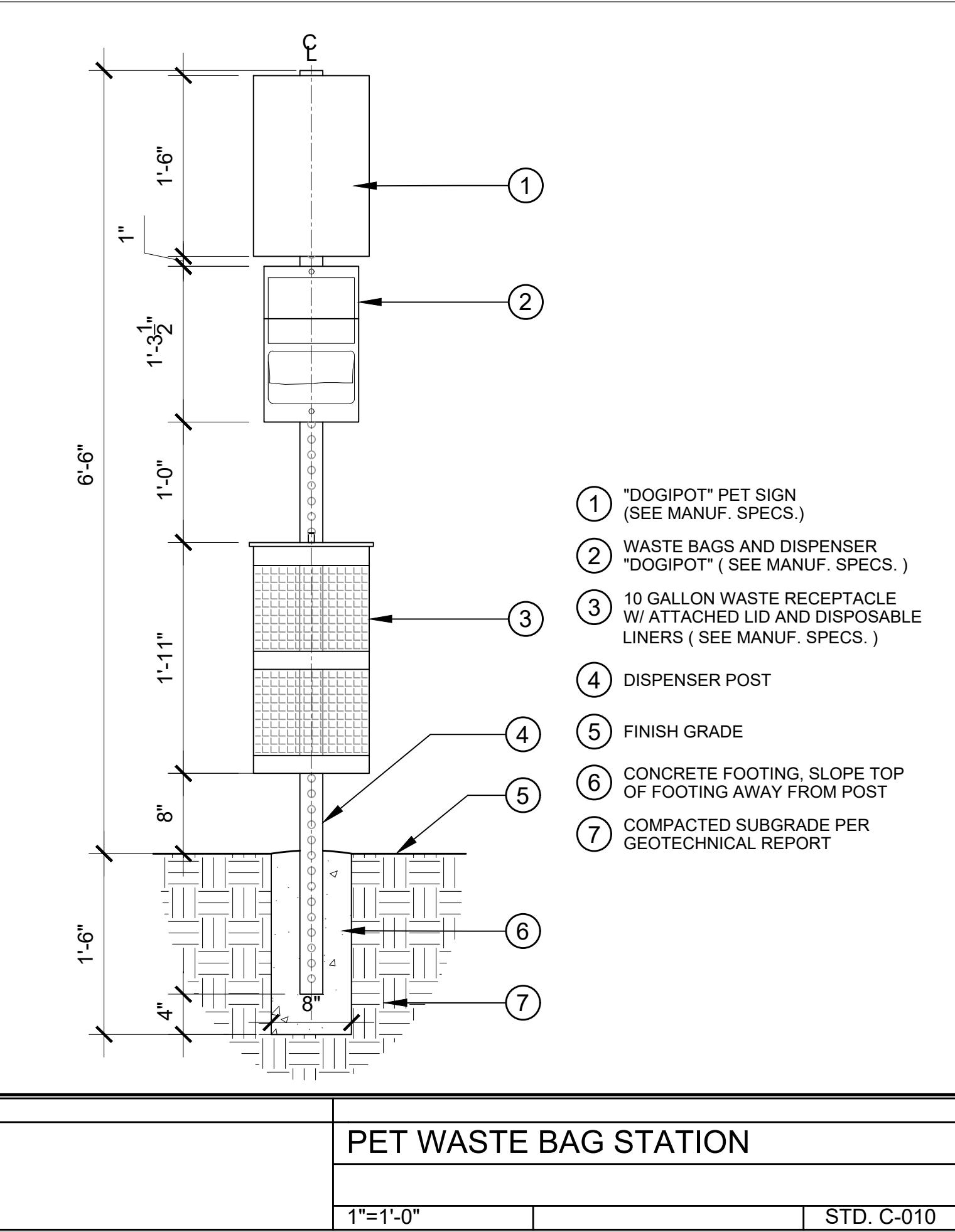
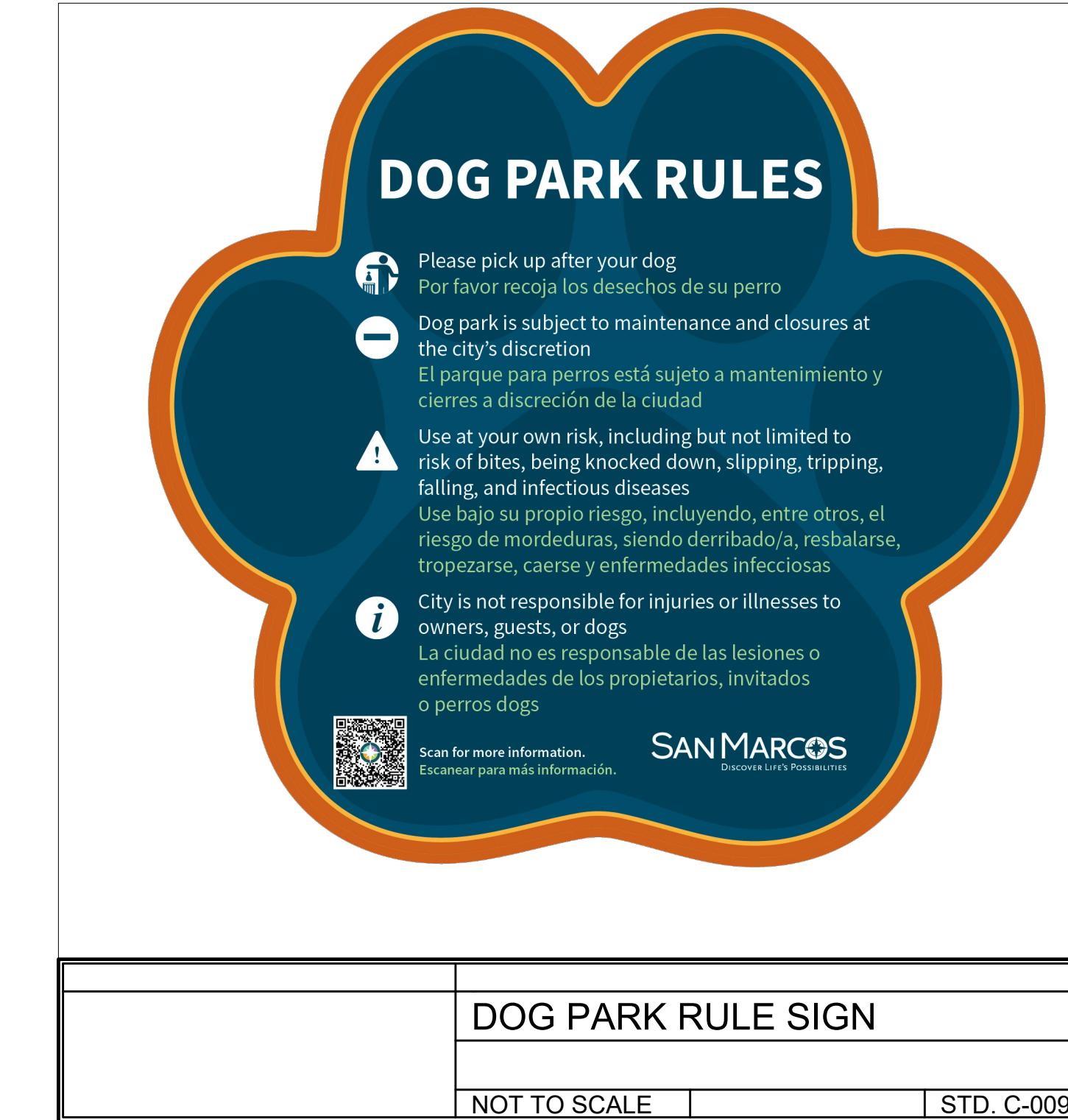
APPROVED FOR CONSTRUCTION  
By: Isaac Etchamendy, City Engineer  
R.C.E.: \_\_\_\_\_ exp.: \_\_\_\_\_  
Date: \_\_\_\_\_

BENCH MARK  
Description: \_\_\_\_\_  
Location: \_\_\_\_\_  
Record From: \_\_\_\_\_ Datum: \_\_\_\_\_

LANDSCAPE PLANS FOR:  
SAN ELIJAH HILLS PARK - DOG PARK DEMOLITION PLAN  
YYXX-XXXXX PLANNING PROJECT NO. SDPX-XXXX  
MF XXXX Sheet 3 of 16

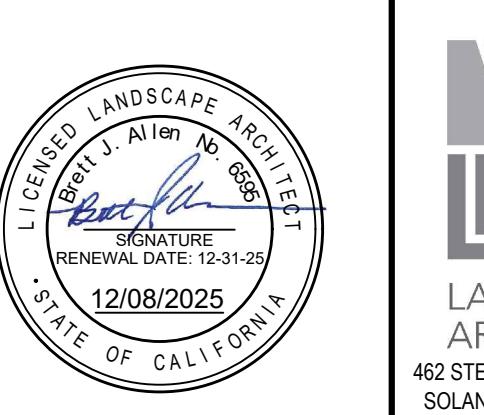








<p><b>SECTION 129300</b> <b>SITE FURNISHINGS</b></p> <p><b>PART 1 - GENERAL</b></p> <p><b>1.01 SUMMARY:</b> THIS WORK INCLUDES ALL SERVICES; LABOR, MATERIALS, TRANSPORTATION AND EQUIPMENT NECESSARY TO PERFORM THE WORK INDICATED ON THE DRAWINGS AND AS SPECIFIED. THE CONDITIONS OF THE CONTRACT DIVISION 1 APPLY TO THIS SECTION AS FULLY AS IF REPEATED HEREIN.</p> <p>PROVIDE SITE FURNISHINGS WHERE SHOWN ON THE DRAWINGS, AND ALL REQUIRED ACCESSORIES, MOUNTING HARDWARE AND FOOTINGS, AS SPECIFIED HEREIN AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION.</p> <p><b>1.02 SUBMITTALS:</b></p> <p>A. PRODUCT DATA: THE CONTRACTOR SHALL SUBMIT WITHIN TEN (10) CALENDAR DAYS AFTER RECEIPT OF NOTICE TO PROCEED, THREE (3) COMPLETE SETS OF THE MATERIAL AND EQUIPMENT SUBMITTALS, INCLUDING:</p> <ol style="list-style-type: none"> <li>1. MANUFACTURER AND MANUFACTURER'S REPRESENTATIVE'S NAME(S) AND ADDRESS(S)</li> <li>2. SHOP DRAWINGS AND/OR DETAILED TECHNICAL DATA SHEETS (CUT SHEETS) AS APPLICABLE, INCLUDING PLAN, ELEVATION AND SECTION VIEWS, COMPONENT LISTS WITH MODEL NUMBERS AND CATALOG DESCRIPTIONS</li> <li>3. COLOR CHARTS AND ACTUAL MATERIAL COLOR SAMPLES FOR SELECTION OF COLORS BY THE LANDSCAPE ARCHITECT</li> <li>4. WRITTEN MATERIAL SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR ALL COMPONENTS</li> <li>5. COPY OF MANUFACTURER WARRANTY IN CERTIFICATE FORMAT</li> </ol> <p><b>1.03 QUALITY ASSURANCE:</b></p> <p>A. USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK OF THIS SECTION.</p> <p><b>1.04 COMPLIANCE WITH DESIGN DRAWINGS:</b></p> <p>A. PRODUCTS: THE LAYOUTS SHOWN ON THE DRAWINGS ARE BASED UPON SPECIFIC EQUIPMENT AND MEASUREMENTS FROM THE MANUFACTURERS SPECIFIED ON THE DRAWINGS AND HEREIN. OTHER PRODUCTS WILL BE REVIEWED AND CONSIDERED AS A POTENTIAL "EQUAL", ONLY IF ALL OF THE EQUIPMENT, COMPONENTS, CONFIGURATIONS, FEATURES, COLORS, PARAMETERS, SPECIFICATIONS AND DESIGN INTENT OF THE SPECIFIED EQUIPMENT IS MATCHED IN EVERY ASPECT, AS DETERMINED BY THE CITY'S REPRESENTATIVE.</p> <p><b>PART 2 - PRODUCTS</b></p> <p><b>2.01 PRODUCTS</b></p> <p>A. PICNIC TABLE MODEL: Q-LBT-96PT MANUFACTURER: BY QCP OR APPROVED EQUAL</p> <p>B. ADA PICNIC TABLE Q-LBT-102PTADA MANUFACTURER: QCP OR APPROVED EQUAL</p> <p>C. BOTTLE FILLER LESS DRINKING FOUNTAIN MODEL: MGYM 74-A006 MANUFACTURER: MURDOCK OR APPROVED EQUAL</p> <p>D. PET WASTE STATION MODEL: 1003-L MANUFACTURER: DOGIPOT OR APPROVED EQUAL</p> <p><b>DIG ALERT</b> DIAL TOLL FREE 1-800-422-4133 AT LEAST TWO DAYS BEFORE YOU DIG UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA</p>			<p><b>E. ECRU BENCH BOULDERS</b> COLOR: CREAM AND BEIGE WITH HINTS OF GOLD MANUFACTURER: SOUTHWEST BOULDER &amp; STONE OR APPROVED EQUAL</p> <p><b>F. DESERT SAND BOULDERS</b> COLOR: GOLDEN TAN WITH BROWN OVERTONES MANUFACTURER: SOUTHWEST BOULDER &amp; STONE OR APPROVED EQUAL</p> <p><b>G. 4' CHAIN-LINK FENCE</b> GALVANIZED CHAIN LINK FABRIC ON GALVANIZED FRAMEWORK MANUFACTURER: MASTER HALCO OR OR APPROVED EQUAL</p> <p><b>H. DECOMPOSED GRANITE</b> COLOR: DESERT GOLD OR PARADISE GOLD MANUFACTURER: SOUTHWEST BOULDER &amp; STONE OR APPROVED EQUAL</p> <p><b>I. DOG PARK SIGN</b> MANUFACTURER: MYERS AND SONS HI-WAY SAFETY INSTALLATION PER CITY'S DIRECTION</p> <p><b>PART 3 - EXECUTION</b></p> <p><b>3.01 EXAMINATION</b></p> <p>A. VERIFY AREAS TO RECEIVE FENCING ARE COMPLETED TO FINAL GRADES AND ELEVATIONS.</p> <p>B. ENSURE PROPERTY LINES AND LEGAL BOUNDARIES OF WORK ARE CLEARLY ESTABLISHED.</p> <p><b>3.02 CHAIN LINK FENCE FRAMING INSTALLATION</b></p> <p>A. INSTALL CHAIN LINK FENCE IN ACCORDANCE WITH ASTM F 567 AND MANUFACTURER'S INSTRUCTIONS.</p> <p>B. LOCATE TERMINAL POST AT EACH FENCE TERMINATION AND CHANGE IN HORIZONTAL OR VERTICAL DIRECTION OF 30° OR MORE.</p> <p>C. SPACE LINE POSTS UNIFORMLY AT 10' (3048 MM) MAXIMUM ON CENTER, EXCEPT WHERE INDICATED OR REQUIRED OTHERWISE.</p> <p>D. CONCRETE SET POSTS: UNLESS SHOWN OTHERWISE, DRILL HOLES IN FIRM, UNDISTURBED OR COMPAKED SOIL. HOLES SHALL HAVE DIAMETER 4 TIMES GREATER THAN OUTSIDE DIMENSION OF POST, AND DEPTHS APPROXIMATELY 6' (152 MM) DEEPER THAN POST BOTTOM. EXCAVATE DEEPER AS REQUIRED FOR ADEQUATE SUPPORT IN SOFT AND LOOSE SOILS, AND FOR POSTS WITH HEAVY LATERAL LOADS. SET POST BOTTOM 36" (914 MM) BELOW SURFACE WHEN IN FIRM, UNDISTURBED SOIL. PLACE CONCRETE AROUND POSTS IN A CONTINUOUS POUR. TROWEL FINISH AROUND POST. SLOPE TO DIRECT WATER AWAY FROM POSTS.</p> <p>E. CHECK EACH POST FOR VERTICAL AND TOP ALIGNMENT, AND MAINTAIN IN POSITION DURING PLACEMENT AND FINISHING OPERATIONS.</p> <p>F. BRACING: INSTALL HORIZONTAL PIPE BRACE AT MID-HEIGHT FOR FENCES 6' (1829 MM) AND OVER, ON EACH SIDE OF TERMINAL POSTS. FIRMLY ATTACH WITH FITTINGS. INSTALL DIAGONAL TRUSS RODS AT THESE POINTS. ADJUST TRUSS ROD, ENSURING POSTS REMAIN PLUMB.</p> <p>G. TOP RAIL: INSTALL LENGTHS, 21' (6400 MM) OR AS SHOWN. CONNECT JOINTS WITH SLEEVES FOR RIGID CONNECTIONS FOR EXPANSION/CONTRACTION.</p> <p>H. CENTER RAILS: INSTALL MID RAILS BETWEEN POSTS WITH FITTINGS AND ACCESSORIES.</p> <p>I. BOTTOM RAILS: INSTALL BOTTOM RAILS BETWEEN POSTS WITH FITTINGS AND ACCESSORIES.</p> <p><b>3.03 CHAIN LINK FABRIC INSTALLATION</b></p> <p>A. FABRIC: INSTALL FABRIC ON SECURITY SIDE AND ATTACH SO THAT FABRIC REMAINS IN TENSION AFTER PULLING FORCE IS RELEASED. LEAVE APPROXIMATELY 2" (50 MM) BETWEEN FINISH GRADE AND BOTTOM SELVAGE. ATTACH FABRIC WITH WIRE TIES TO LINE POSTS AT 15" (381 MM) ON CENTER AND TO RAILS, BRACES, AND TENSION WIRE AT 24" (600 MM) ON CENTER.</p> <p>B. TENSION (STRETCHER) BARS: PULL FABRIC TAUT; THREAD TENSION BAR THROUGH FABRIC AND ATTACH TO TERMINAL POSTS WITH BANDS OR CLIPS SPACED MAXIMUM OF 15" (381 MM) ON CENTER.</p> <p><b>3.04 ACCESSORIES</b></p> <p>A. TIE WIRES: BEND ENDS OF WIRE TO MINIMIZE HAZARD TO PERSONS AND CLOTHING.</p> <p>B. FASTENERS: INSTALL NUTS ON SIDE OF FENCE OPPOSITE FABRIC SIDE FOR ADDED SECURITY.</p> <p><b>3.05 CLEANING</b></p> <p>A. CLEAN UP DEBRIS AND UNUSED MATERIAL, AND REMOVE FROM THE SITE.</p>																							
<p><b>SECTION 02820</b> <b>CHAIN LINK FENCING</b></p> <p><b>PART 1 - GENERAL</b></p> <p><b>1.01 SECTION INCLUDES</b></p> <p>A. GALVANIZED (ZINC) COATED CHAIN LINK FABRIC WITH GALVANIZED STEEL FRAMEWORK AND ACCESSORIES FOR COMMERCIAL OR INDUSTRIAL APPLICATIONS.</p> <p><b>1.02 RELATED SECTIONS</b></p> <p>A. SECTION 320523 PORTLAND CEMENT CONCRETE PAVING</p> <p><b>1.03 SUBMITTALS</b></p> <p>A. CHANGES IN SPECIFICATIONS MAY NOT BE MADE AFTER THE BID DATE.</p> <p>B. SHOP DRAWINGS: LAYOUT OF FENCES AND GATES WITH DIMENSIONS, DETAILS, AND FINISHES OF COMPONENTS, ACCESSORIES, AND POST FOUNDATIONS.</p> <p>C. PRODUCT DATA: MANUFACTURER'S CATALOG CUTS INDICATING MATERIAL COMPLIANCE AND SPECIFIED OPTIONS.</p> <p>D. SAMPLES: IF REQUESTED, SAMPLES OF MATERIALS (E.G., FABRIC, WIRES, AND ACCESSORIES).</p> <p><b>1.04 QUALITY ASSURANCE</b></p> <p>A. MANUFACTURER: COMPANY HAVING MANUFACTURING FACILITIES IN THE UNITED STATES WITH A MINIMUM 5 YEARS EXPERIENCE SPECIALIZING IN MANUFACTURING OF CHAIN LINK FENCE PRODUCTS.</p> <p>B. FENCE CONTRACTOR: CONTRACTOR HAVING 5 YEARS EXPERIENCE INSTALLING SIMILAR PROJECTS IN ACCORDANCE WITH ASTM F567.</p> <p>C. TOLERANCES: ASTM CURRENT SPECIFICATION AND TOLERANCES APPLY AND SUPERSEDE ANY CONFLICTING TOLERANCE.</p> <p>D. SUBSTITUTIONS: ALTERNATE CHAIN LINK PRODUCTS MAY BE ACCEPTABLE BY THE ARCHITECT AS EQUAL IF APPROVED IN WRITING TEN DAYS PRIOR TO BIDDING PROVIDED THAT THE ITEMS SUBMITTED MEET THE SPECIFICATIONS CONTAINED IN THIS DOCUMENT.</p> <p>E. SINGLE SOURCE: TO ENSURE SYSTEM INTEGRITY OBTAIN THE CHAIN LINK SYSTEM, FRAMEWORK, FABRIC, FITTINGS, GATES AND ACCESSORIES FROM A SINGLE SOURCE.</p> <p><b>SECTION APPROVED CHANGES</b></p> <table border="1"> <thead> <tr> <th>△ NO.</th> <th>DESCRIPTION</th> <th>FFECTED SHEETS</th> <th>AOW APP'D</th> <th>APP'D BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td></td> <td>JASON NAILON, FIRE MARSHAL REQUIRED FIRE HYDRANT FLOW * (GPM) APPROVED FIRE HYDRANT FLOW * (GPM) APPROVED FIRE FLOW INCLUDES MITIGATION MEASURES *GALLON PER MINUTE</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>VALLECITO'S WATER DISTRICT IS NOT RESPONSIBLE FOR MAINTENANCE, REPAIR, OR REPLACEMENT OF FIRE HYDRANTS UNLESS SPECIFIED UNDER SEPARATE AGREEMENT WITH THE JURISDICTIONAL FIRE AGENCY</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>VWD AS-BUILT</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p><b>LANDSCAPE ARCHITECT OF WORK</b></p> <p>By: _____ License No.: _____ exp.: _____ Date: _____</p> <p><b>RECOMMENDED FOR APPROVAL</b></p> <p>By: Andrew Proud, Landscape Inspection Supervisor Date: _____</p> <p><b>APPROVED FOR CONSTRUCTION</b></p> <p>By: Isaac Etchamendy, City Engineer R.C.E.: _____ exp.: _____ Date: _____</p> <p><b>BENCH MARK</b></p> <p>Description: _____ Location: _____ Record From: _____ Datum: _____ Elev.: _____</p> <p><b>CITY OF SAN MARCOS</b></p> <p>LANDSCAPE PLANS FOR: YYYYY-XXXXX SAN ELIJAH HILLS PARK - DOG PARK PLANNING PROJECT NO. SDPXX-XXXX CONSTRUCTION SPECIFICATIONS MF XXXX</p>			△ NO.	DESCRIPTION	FFECTED SHEETS	AOW APP'D	APP'D BY	DATE		JASON NAILON, FIRE MARSHAL REQUIRED FIRE HYDRANT FLOW * (GPM) APPROVED FIRE HYDRANT FLOW * (GPM) APPROVED FIRE FLOW INCLUDES MITIGATION MEASURES *GALLON PER MINUTE						VALLECITO'S WATER DISTRICT IS NOT RESPONSIBLE FOR MAINTENANCE, REPAIR, OR REPLACEMENT OF FIRE HYDRANTS UNLESS SPECIFIED UNDER SEPARATE AGREEMENT WITH THE JURISDICTIONAL FIRE AGENCY						VWD AS-BUILT				
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	VWD AS-BUILT																									
<p>FOR APPROVAL</p> <p>APPROVAL VALID FOR TWO (2) YEARS FROM DATE</p>																										

 <p>LICENSED LANDSCAPE ARCHITECT Signature: _____ RENEWAL DATE: 12-31-25 12/08/2025 STATE OF CALIFORNIA</p>	 <p>VWLA LANDSCAPE ARCHITECTS 462 STEVENS AVENUE, SUITE 107 SOLANA BEACH, CA 92075-2042 (619) 294-8484; FAX (619) 574-0626</p>	<p>INSPECTED AND RECOMMENDED FOR ACCEPTANCE</p> <p>Public Works Inspector Date _____</p> <p>APPROVED AS RECORD PLAN</p> <p>ISAAC ETCHAMENDY 81294 9/30/2026 BRETT ALLEN, LLA License No. 6595, EXP. 12/31/2025 DATE: 12/08/2025</p>
<p>CITY OF SAN MARCOS</p> <p>City Drawing No. _____</p> <p>LANDSCAPE PLANS FOR: YYYYY-XXXXX SAN ELIJAH HILLS PARK - DOG PARK PLANNING PROJECT NO. SDPXX-XXXX CONSTRUCTION SPECIFICATIONS MF XXXX</p>		

SECTION 032000 CONCRETE REINFORCEMENT			D. PROVIDE SUFFICIENT NUMBERS OF SUPPORTS, AND OF STRENGTH TO CARRY THE REINFORCEMENT DURING POUR AND SET OPERATIONS.			F. CONCRETE TESTING SERVICE: ENGAGE A QUALIFIED INDEPENDENT TESTING AGENCY TO PERFORM MATERIAL EVALUATION TESTS AND TO DESIGN CONCRETE MIXES.			C. WATER-REDUCING ADMIXTURE: ASTM C 494, TYPE A.		
PART 1 - GENERAL			3.04 SPLICES: LAP SPLICES AS INDICATED ON THE DRAWINGS AND TIE SECURELY WITH THE SPECIFIED WIRE TO PREVENT DISPLACEMENT OF SPLICES DURING POUR AND SET OPERATIONS.			1.06 MOCK-UPS A. PRIOR TO CONSTRUCTION, PROVIDE (1) 4' X 4' X 4" THICK SAMPLE OF EACH PAVING TYPE, COLOR, FINISH AND SEALERS AS SPECIFIED ON DRAWINGS.			D. WATER-REDUCING AND RETARDING ADMIXTURE: ASTM C 494, TYPE D.		
1.01 SUMMARY  THIS WORK INCLUDES ALL SERVICES, LABOR, MATERIALS, TRANSPORTATION AND EQUIPMENT NECESSARY TO PERFORM THE WORK INDICATED ON THE DRAWINGS AND AS SPECIFIED. THE CONDITIONS OF THE CONTRACT AND DIVISION 1 APPLY TO THIS SECTION AS FULLY AS IF REPEATED HEREIN.			END OF SECTION 032000			B. ENSURE THAT EACH MOCK-UP CONTAINS JOINT TYPES SPECIFIED ON PROJECT, E.G. CONSTRUCTION, SAWCUT WEAKENED PLANE, SAWCUT JOINT, ETC.			E. WATER-REDUCING AND ACCELERATING ADMIXTURE: ASTM C 494, TYPE E.		
1.02 RELATED REQUIREMENTS:  A. SECTION 320523 PORTLAND CEMENT CONCRETE PAVING			SECTION 320523 PORTLAND CEMENT CONCRETE PAVING			C. LOCATE MOCK-UPS IN A CONVENIENTLY ACCESSIBLE AND PROTECTED PLACE. APPROVED MOCK-UPS WILL BE STANDARD FOR FUTURE INSTALLATION REVIEW.			F. HIGH-RANGE, WATER-REDUCING ADMIXTURE: ASTM C 494, TYPE F.		
1.03 GENERAL REQUIREMENTS:  A. PROVIDE CONCRETE REINFORCEMENT WHERE SHOWN ON THE DRAWINGS, AS SPECIFIED HEREIN AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION.  B. USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK OF THIS SECTION.  C. PERFORM CONCRETE REINFORCEMENT WORKS IN ACCORDANCE WITH ACI 301, UNLESS OTHERWISE SPECIFIED IN THIS SECTION.			PART 1 - GENERAL  1.01 RELATED DOCUMENTS			D. MOCK-UPS SHALL BE APPROVED BY LANDSCAPE ARCHITECT. ADDITIONAL SAMPLES SHALL BE PREPARED TO ENSURE DESIGN COMPLIANCE PER LANDSCAPE ARCHITECT'S REQUEST.			2.05 CURING MATERIALS		
1.04 DELIVERY STORAGE AND HANDLING:  A. DELIVER THE MATERIALS TO THE JOB SITE IN GOOD CONDITION AND PROPERLY PROTECTED AGAINST DAMAGE AND CORROSION.  B. STORE MATERIAL IN A LOCATION AND IN A MANNER TO AVOID DAMAGE. STACKING SHALL BE DONE IN A WAY WHICH WILL PREVENT CORROSION AND BENDING.  C. STORE MATERIAL IN A CLEAN, DRY LOCATION AWAY FROM UNCURED CONCRETE AND MASONRY. COVER WITH WATERPROOF PAPER, TARPANIL OR POLYPROPYLENE SHEETING IN A MANNER THAT WILL PERMIT CIRCULATION OF AIR INSIDE THE COVERING.			A. THIS SECTION INCLUDES EXTERIOR CEMENT CONCRETE PAVEMENT FOR THE FOLLOWING:  1. CONCRETE PAVING.			E. REMOVE MOCK-UPS FROM SITE UPON COMPLETION OF WORK.			A. ABSORPTIVE COVER: AASHTO M 182, CLASS 2, BURLAP CLOTH MADE FROM JUTE OR KENAF, WEIGHING APPROXIMATELY 9 OZ/SQ. YD. (305 G/SQ.M) DRY.		
PART 2 - PRODUCTS			1.03 DEFINITIONS			1.07 PROJECT CONDITIONS			B. MOISTURE-RETAINING COVER: ASTM C 171, POLYETHYLENE FILM OR WHITE BURLAP-POLYETHYLENE SHEET.		
2.01 REINFORCEMENT MATERIALS AND ACCESSORIES:  A. BARS: DEFORMED BILLET STEEL BARS, ASTM A615; GRADE 60.  B. STEEL WIRE: FOR TIE WIRE USE BLACK ANNEALED STEEL, 16-GAUGE MINIMUM.			A. CEMENTITIOUS MATERIALS: PORTLAND CEMENT ALONE OR IN COMBINATION WITH ONE OR MORE OF BLENDED HYDRAULIC CEMENT, EXPANSIVE HYDRAULIC CEMENT, FLY ASH AND OTHER POZZOLANS, GROUND GRANULATED BLAST-FURNACE SLAG, AND SILICA FUME.			A. TRAFFIC CONTROL: MAINTAIN ACCESS FOR VEHICULAR AND PEDESTRIAN TRAFFIC AS REQUIRED FOR OTHER CONSTRUCTION ACTIVITIES.			C. WATER: POTABLE.		
2.02 OTHER MATERIALS:  PROVIDE OTHER MATERIALS NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION AS SELECTED BY THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE OWNER.			1.04 SUBMITTALS			PART 2 - PRODUCTS			D. CLEAR SOLVENT-BORNE OR WATER-BORNE LIQUID-MEMBRANE-FORMING CURING COMPOUND: ASTM C 309, TYPE 1, CLASS B.		
PART 3 - EXECUTION			A. GENERAL: SUBMIT THE FOLLOWING ACCORDING TO THE CONDITIONS OF THE CONTRACT AND DIVISION 1 SPECIFICATION SECTIONS.			2.01 FORMS			E. EVAPORATION CONTROL: MONOMOLECULAR FILM-FORMING COMPOUND APPLIED TO EXPOSED CONCRETE SLAB SURFACES FOR TEMPORARY PROTECTION FROM RAPID MOISTURE LOSS.		
3.01 SURFACE CONDITIONS:  EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK OF THIS SECTION WILL BE PERFORMED. CORRECT CONDITIONS DETERIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.			B. PRODUCT DATA: FOR EACH TYPE OF MANUFACTURED MATERIAL AND PRODUCT INDICATED.			2.02 STEEL REINFORCEMENT			2.06 RELATED MATERIALS		
3.02 FABRICATION OF REBAR:  A. FABRICATE REINFORCING BARS TO CONFORM TO THE REQUIRED SHAPES AND DIMENSIONS.  B. PLACE REINFORCEMENT SUPPORTED AND SECURED AGAINST DISPLACEMENT.  C. ENSURE REINFORCING IS CLEAN, FREE OF LOOSE SCALE, DIRT OR OTHER FOREIGN COATINGS.			C. DESIGN MIXES: FOR EACH CONCRETE PAVEMENT MIX. INCLUDE ALTERNATE MIX DESIGNS WHEN CHARACTERISTICS OF MATERIALS, PROJECT CONDITIONS, WEATHER, TEST RESULTS, OR OTHER CIRCUMSTANCES WARRANT ADJUSTMENTS.			A. REINFORCEMENT BARS: ASTM A 615/A 615M, GRADE 60 (GRADE 420), DEFORMED.			D. EXPANSION AND ISOLATION JOINT FILLER STRIPS: ASTM D 1751, ASPHALT-SATURATED CELLULOSIC FIBER, OR ASTM D 1752, CORK OR SELF-EXPANDING CORK.		
3.03 INSTALLATION OF REBAR:  A. LOCATE AND SUPPORT REINFORCEMENT BY METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS AND HANGERS AS REQUIRED.  B. ARRANGE, SPACE AND SECURELY TIE BARS AND BAR SUPPORTS TOGETHER WITH THE SPECIFIED TIE WIRE IN THE ARRANGEMENTS AND LOCATIONS AS SHOWN ON THE DRAWINGS.  C. SET WIRE TIES SO TWISTED ENDS ARE DIRECTED AWAY FROM EXPOSED CONCRETE SURFACES.			D. MATERIAL TEST REPORTS: FROM A QUALIFIED TESTING AGENCY INDICATING AND INTERPRETING TEST RESULTS FOR COMPLIANCE WITH REQUIREMENTS INDICATED IN THIS SPECIFICATION BASED ON COMPREHENSIVE TESTING OF CURRENT MATERIALS.			B. JOINT DOWEL BARS: PLAIN STEEL BARS, ASTM A 615/A 615M, GRADE 60 (GRADE 420). CUT BARS TRUE TO LENGTH WITH ENDS SQUARE AND FREE OF BURRS.			E. BONDING AGENT: ASTM C 1059, TYPE II, NON-REDISPERSIBLE, ACRYLIC EMULSION OR STYRENE BUTADIENE.		
3.04 ACI PUBLICATIONS: COMPLY WITH ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE," UNLESS MODIFIED BY THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.			E. MATERIAL CERTIFICATES IN LIEU OF MATERIAL LABORATORY TEST REPORTS WHEN PERMITTED BY LANDSCAPE ARCHITECT. MATERIAL CERTIFICATES SHALL BE SIGNED BY MANUFACTURER AND CONTRACTOR CERTIFYING THAT EACH MATERIAL ITEM COMPLIES WITH OR EXCEEDS REQUIREMENTS. PROVIDE CERTIFICATION FROM ADMIXTURE MANUFACTURERS THAT CHLORIDE CONTENT COMPLIES WITH REQUIREMENTS.			C. BAR SUPPORTS: BOLSTERS, CHAIRS, SPACERS, AND OTHER DEVICES FOR SPACING, SUPPORTING AND FASTENING REINFORCEMENT BARS, WELDED WIRE FABRIC, AND DOWELS IN PLACE. MANUFACTURE BAR SUPPORTS ACCORDING TO CRSI'S :MANUAL OF STANDARD PRACTICE: FROM STEEL WIRE, PLASTIC, OR PRECAST CONCRETE OR FIBER-REINFORCED CONCRETE OF GREATER COMPRESSIVE STRENGTH THAN CONCRETE, AND AS FOLLOWS:			F. EPOXY BONDING ADHESIVE: ASTM C 881, TWO-COMPONENT EPOXY RESIN, CAPABLE OF HUMID CURING AND BONDING TO DAMP SURFACES, OF CLASS AND GRADE TO SUIT REQUIREMENTS.		
3.05 QUALITY ASSURANCE			F. PENETRATING CONCRETE SEALERS FOR CAST-IN-PLACE CONCRETE PAVING.			1. EQUIP WIRE BAR SUPPORTS WITH SAND PLATES OR HORIZONTAL RUNNERS WHERE BASE MATERIAL WILL NOT SUPPORT CHAIR LEGS.			2.07 CONCRETE MIXES		
3.06 INSTALLATION OF REBAR			A. INSTALLER QUALIFICATION: AN EXPERIENCED INSTALLER WHO HAS COMPLETED PAVEMENT WORK SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT AND WHOSE WORK HAS RESULTED IN CONSTRUCTION WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.			2.02 CONCRETE MATERIALS			A. PREPARE DESIGN MIXES, PROPORTIONED ACCORDING TO ACI 211.1 AND ACI 301, FOR EACH TYPE AND STRENGTH OF NORMAL-WEIGHT CONCRETE DETERMINED BY EITHER LABORATORY TRIAL MIXES OR FIELD EXPERIENCE.		
3.07 TESTING AGENCY QUALIFICATIONS			B. MANUFACTURER QUALIFICATIONS: MANUFACTURER OF READY-MIXED CONCRETE PRODUCTS COMPLYING WITH ASTM C 94 REQUIREMENTS FOR PRODUCTION FACILITIES AND EQUIPMENT.			A. REINFORCEMENT BARS: ASTM A 615/A 615M, GRADE 60 (GRADE 420), DEFORMED.			B. USE A QUALIFIED INDEPENDENT TESTING AGENCY FOR PREPARING AND REPORTING PROPOSED MIX DESIGNS FOR THE TRIAL BATCH METHOD.		
3.08 SOURCE LIMITATIONS			C. TESTING AGENCY QUALIFICATIONS: AN INDEPENDENT TESTING AGENCY, ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, QUALIFIED ACCORDING TO ASTM C 1077 AND ASTM E 329 TO CONDUCT THE TESTING INDICATED, AS DOCUMENTED ACCORDING TO ASTM E 548.			B. JOINT DOWEL BARS: PLAIN STEEL BARS, ASTM A 615/A 615M, GRADE 60 (GRADE 420). CUT BARS TRUE TO LENGTH WITH ENDS SQUARE AND FREE OF BURRS.			1. DO NOT USE OWNER'S FIELD QUALITY-CONTROL TESTING AGENCY AS THE INDEPENDENT TESTING AGENCY.		
3.09 WATER: ASTM C 94.			D. SOURCE LIMITATIONS: OBTAIN EACH TYPE OR CLASS OF CEMENTITIOUS MATERIAL OF THE SAME BRAND FROM THE SAME MANUFACTURER'S PLANT AND EACH AGGREGATE FROM ONE SOURCE.			C. BAR SUPPORTS: BOLSTERS, CHAIRS, SPACERS, AND OTHER DEVICES FOR SPACING, SUPPORTING AND FASTENING REINFORCEMENT BARS, WELDED WIRE FABRIC, AND DOWELS IN PLACE. MANUFACTURE BAR SUPPORTS ACCORDING TO CRSI'S :MANUAL OF STANDARD PRACTICE: FROM STEEL WIRE, PLASTIC, OR PRECAST CONCRETE OR FIBER-REINFORCED CONCRETE OF GREATER COMPRESSIVE STRENGTH THAN CONCRETE, AND AS FOLLOWS:			2. SLUMP LIMIT: 3 INCHES (75 MM)		
3.10 ACI PUBLICATIONS: COMPLY WITH ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE," UNLESS MODIFIED BY THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.			E. WATER: ASTM C 94.			1. EQUIP WIRE BAR SUPPORTS WITH SAND PLATES OR HORIZONTAL RUNNERS WHERE BASE MATERIAL WILL NOT SUPPORT CHAIR LEGS.			D. CEMENTITIOUS MATERIALS: LIMIT PERCENTAGE, BY WEIGHT, OF CEMENTITIOUS MATERIALS OTHER THAN PORTLAND CEMENT IN CONCRETE AS FOLLOWS:		
3.11 CITY APPROVED CHANGES			F. ACI PUBLICATIONS: COMPLY WITH ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE," UNLESS MODIFIED BY THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.			2.03 CONCRETE MATERIALS			1. FLY ASH: 25 PERCENT MAXIMUM		
3.12 CITY APPROVED CHANGES			G. GENERAL: USE THE SAME BRAND AND TYPE OF CEMENTITIOUS MATERIAL FROM THE SAME MANUFACTURER THROUGHOUT THE PROJECT.			2.04 ADMIXTURES			E. ADD AIR-ENTRAINING ADMIXTURE OF MANUFACTURER'S PRESCRIBED RATE TO RESULT IN CONCRETE AT A POINT OF PLACEMENT HAVING AN AIR CONTENT OF 2.5 TO 4.5 PERCENT.		
3.13 CITY APPROVED CHANGES			H. PORTLAND CEMENT: ASTM C 150, TYPE I.			A. GENERAL: ADMIXTURES CERTIFIED BY MANUFACTURER TO CONTAIN NOT MORE THAN 0.1 PERCENT WATER-SOLUBLE CHLORIDE IONS BY MASS OF CEMENT AND TO BE COMPATIBLE WITH OTHER ADMIXTURES.			2.09 CONCRETE PAVING SEALERS		
3.14 CITY APPROVED CHANGES			I. FLY ASH: ASTM C 618, CLASS F.			B. AIR-ENTRAINING ADMIXTURE: ASTM C 260			A. SEALERS FORMULATED SPECIFICALLY FOR THE SPECIFIED TYPE OF CONCRETE AND FINISH.		
3.15 CITY APPROVED CHANGES			J. NORMAL WEIGHT AGGREGATE: ASTM C 33, CLASS 4, UNIFORMLY GRADED, FROM A SINGLE SOURCE, WITH COARSE AGGREGATE AS FOLLOWS:			C. WATER: ASTM C 94.			1. APPROVED PENETRATING CONCRETE SEALER WITH NON-SLIP TEXTURE.		
3.16 CITY APPROVED CHANGES			K. MAXIMUM AGGREGATE SIZE: 1-1/2 INCHES (38 MM) NOMINAL.			D. APPROVED FOR CONSTRUCTION			2.09 CONCRETE PAVING SEALERS		
3.17 CITY APPROVED CHANGES			L. DO NOT USE FINE OR COARSE AGGREGATES CONTAINING SUBSTANCES THAT CAUSE SPALLING.			E. BENCH MARK			A. SEALERS FORMULATED SPECIFICALLY FOR THE SPECIFIED TYPE OF CONCRETE AND FINISH.		
3.18 CITY APPROVED CHANGES			M. WATER: ASTM C 94.			F. APPROVED FOR CONSTRUCTION			1. APPROVED PENETRATING CONCRETE SEALER WITH NON-SLIP TEXTURE.		
3.19 CITY APPROVED CHANGES			N. ACI PUBLICATIONS: COMPLY WITH ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE," UNLESS MODIFIED BY THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.			G. BENCH MARK			2.09 CONCRETE PAVING SEALERS		
3.20 CITY APPROVED CHANGES			O. CITY APPROVAL			H. APPROVED FOR CONSTRUCTION			A. SEALERS FORMULATED SPECIFICALLY FOR THE SPECIFIED TYPE OF CONCRETE AND FINISH.		
3.21 CITY APPROVED CHANGES			P. CITY APPROVAL			I. APPROVED FOR CONSTRUCTION			1. APPROVED PENETRATING CONCRETE SEALER WITH NON-SLIP TEXTURE.		
3.22 CITY APPROVED CHANGES			Q. CITY APPROVAL			J. APPROVED FOR CONSTRUCTION			2.09 CONCRETE PAVING SEALERS		
3.23 CITY APPROVED CHANGES			R. CITY APPROVAL			K. APPROVED FOR CONSTRUCTION			A. SEALERS FORMULATED SPECIFICALLY FOR THE SPECIFIED TYPE OF CONCRETE AND FINISH.		
3.24 CITY APPROVED CHANGES			S. CITY APPROVAL			L. APPROVED FOR CONSTRUCTION			1. APPROVED PENETRATING CONCRETE SEALER WITH NON-SLIP TEXTURE.		
3.25 CITY APPROVED CHANGES			T. CITY APPROVAL			M. APPROVED FOR CONSTRUCTION			2.09 CONCRETE PAVING SEALERS		
3.26 CITY APPROVED CHANGES			U. CITY APPROVAL			N. APPROVED FOR CONSTRUCTION			A. SEALERS FORMULATED SPECIFICALLY FOR THE SPECIFIED TYPE OF CONCRETE AND FINISH.		
3.27 CITY APPROVED CHANGES			V. CITY APPROVAL			O. APPROVED FOR CONSTRUCTION			1. APPROVED PENETRATING CONCRETE SEALER WITH NON-SLIP TEXTURE.		
3.28 CITY APPROVED CHANGES			W. CITY APPROVAL			P. APPROVED FOR CONSTRUCTION			2.09 CONCRETE PAVING SEALERS		
3.29 CITY APPROVED CHANGES			X. CITY APPROVAL			Q. APPROVED FOR CONSTRUCTION			A. SEALERS FORMULATED SPECIFICALLY FOR THE SPECIFIED TYPE OF CONCRETE AND FINISH.		
3.30 CITY APPROVED CHANGES			Y. CITY APPROVAL			R. APPROVED FOR CONSTRUCTION			1. APPROVED PENETRATING CONCRETE SEALER WITH NON-SLIP TEXTURE.		
3.31 CITY APPROVED CHANGES			Z. CITY APPROVAL			S. APPROVED FOR CONSTRUCTION			2.09 CONCRETE PAVING SEALERS		
3.32 CITY APPROVED CHANGES			AA. CITY APPROVAL			T. APPROVED FOR CONSTRUCTION			A. SEALERS FORMULATED SPECIFICALLY FOR THE SPECIFIED TYPE OF CONCRETE AND FINISH.		
3.33 CITY APPROVED CHANGES			BB. CITY APPROVAL			U. APPROVED FOR CONSTRUCTION			1. APPROVED PENETRATING CONCRETE SEALER WITH NON-SLIP TEXTURE.		
3.34 CITY APPROVED CHANGES			CC. CITY APPROVAL			V. APPROVED FOR CONSTRUCTION			2.09 CONCRETE PAVING SEALERS		
3.35 CITY APPROVED CHANGES			DD. CITY APPROVAL			W. APPROVED FOR CONSTRUCTION			A. SEALERS FORMULATED SPECIFICALLY FOR THE SPECIFIED TYPE OF CONCRETE AND FINISH.		
3.36 CITY APPROVED CHANGES			EE. CITY APPROVAL			X. APPROVED FOR CONSTRUCTION			1. APPROVED PENETRATING CONCRETE SEALER WITH NON-SLIP TEXTURE.		
3.37 CITY APPROVED CHANGES			FF. CITY APPROVAL			Y. APPROVED FOR CONSTRUCTION			2.09 CONCRETE PAVING SEALERS		
3.38 CITY APPROVED CHANGES			GG. CITY APPROVAL			Z. APPROVED FOR CONSTRUCTION			A. SEALERS FORMULATED SPECIFICALLY FOR THE SPECIFIED TYPE OF CONCRETE AND FINISH.		
3.39 CITY APPROVED CHANGES			HH. CITY APPROVAL			AA. APPROVED FOR CONSTRUCTION			1. APPROVED PENETRATING CONCRETE SEALER WITH NON-SLIP TEXTURE.		
3.40 CITY APPROVED CHANGES			II. CITY APPROVAL			BB. APPROVED FOR CONSTRUCTION			2.09 CONCRETE PAVING SEALERS		
3.41 CITY APPROVED CHANGES			JJ. CITY APPROVAL			CC. APPROVED FOR CONSTRUCTION			A. SEALERS FORMULATED SPECIFICALLY FOR THE SPECIFIED TYPE OF CONCRETE AND FINISH.		
3.42 CITY APPROVED CHANGES			KK. CITY APPROVAL			DD. APPROVED FOR CONSTRUCTION			1. APPROVED PENETRATING CONCRETE SEALER WITH NON-SLIP TEXTURE.		
3.43 CITY APPROVED CHANGES			LL. CITY APPROVAL			EE. APPROVED FOR CONSTRUCTION			2.09 CONCRETE PAVING SEALERS		
3.44 CITY APPROVED CHANGES			MM. CITY APPROVAL			FF. APPROVED FOR CONSTRUCTION			A. SEALERS FORMULATED SPECIFICALLY FOR THE SPECIFIED TYPE OF CONCRETE AND FINISH.		
3.45 CITY APPROVED CHANGES			NN. CITY APPROVAL			GG. APPROVED FOR CONSTRUCTION			1. APPROVED PENETRATING CONCRETE SEALER WITH NON-SLIP TEXTURE.		
3.46 CITY APPROVED CHANGES			OO. CITY APPROVAL			HH. APPROVED FOR CONSTRUCTION			2.09 CONCRETE PAVING SEALERS		
3.47 CITY APPROVED CHANGES			PP. CITY APPROVAL			II. APPROVED FOR CONSTRUCTION			A. SEALERS FORMULATED SPECIFICALLY FOR THE SPECIFIED TYPE OF CONCRETE AND FINISH.		
3.48 CITY APPROVED CHANGES			QQ. CITY APPROVAL			JJ. APPROVED FOR CONSTRUCTION			1. APPROVED PENETRATING CONCRETE SEALER WITH NON-SLIP TEXTURE.		
3.49 CITY APPROVED CHANGES			RR. CITY APPROVAL			KK. APPROVED FOR CONSTRUCTION			2.09 CONCRETE PAVING SEALERS		
3.50 CITY APPROVED CHANGES			TT. CITY APPROVAL			LL. APPROVED FOR CONSTRUCTION			A. SEALERS FORMULATED SPECIFICALLY FOR THE SPECIFIED TYPE OF CONCRETE AND FINISH.		
3.51 CITY APPROVED CHANGES			UU. CITY APPROVAL			MM. APPROVED FOR CONSTRUCTION			1. APPROVED PENETRATING CONCRETE SEALER WITH NON-SLIP TEXTURE.		
3.52 CITY APPROVED CHANGES			VV. CITY APPROVAL			NN. APPROVED FOR CONSTRUCTION			2.09 CONCRETE PAVING SEALERS		
3.53 CITY APPROVED CHANGES			WW. CITY APPROVAL			OO. APPROVED FOR CONSTRUCTION			A. SEALERS FORMULATED SPECIFICALLY FOR THE SPECIFIED TYPE OF CONCRETE AND FINISH.		
3.54 CITY APPROVED CHANGES			XX. CITY APPROVAL			PP. APPROVED FOR CONSTRUCTION			1. APPROVED PENETRATING CONCRETE SEALER WITH NON-SLIP TEXTURE.		
3.55 CITY APPROVED CHANGES			YY. CITY APPROVAL			QQ. APPROVED FOR CONSTRUCTION			2.09 CONCRETE PAVING SEALERS		
3.56 CITY APPROVED CHANGES			ZZ. CITY APPROVAL			RR. APPROVED FOR CONSTRUCTION			A. SEALERS FORMULATED SPECIFICALLY FOR THE SPECIFIED TYPE OF CONCRETE AND FINISH.		
3.57 CITY APPROVED CHANGES			AA. CITY APPROVAL			TT. APPROVED FOR CONSTRUCTION			1. APPROVED PENETRATING CONCRETE SEALER WITH NON-SLIP TEXTURE.</td		

## PART 3 - EXECUTION

3.01	PREPARATION	<p>A. PROOF-ROLL PREPARED SUBBASE SURFACE TO CHECK FOR UNSTABLE AREAS AND VERIFY NEED FOR ADDITIONAL COMPACTION. PROCEED WITH PAVEMENT ONLY AFTER NONCONFORMING CONDITIONS HAVE BEEN CORRECTED AND SUBGRADE IS READY TO RECEIVE PAVEMENT.</p> <p>B. REMOVE LOOSE MATERIAL FROM COMPACTED SUBBASE SURFACE IMMEDIATELY BEFORE PLACING CONCRETE.</p> <p>3.02</p> <p>A. SET, BRACE, AND SECURE EDGE FORMS, BULKHEADS, AND INTERMEDIATE SCREED GUIDES FOR PAVEMENT TO REQUIRED LINES, GRADES, AND ELEVATIONS. INSTALL FORMS TO ALLOW CONTINUOUS PROGRESS OF WORK AND SO FORMS CAN REMAIN IN PLACE AT LEAST 24 HOURS AFTER CONCRETE PLACEMENT.</p> <p>B. CLEAN FORMS AFTER EACH USE AND COAT WITH FORM RELEASE AGENT TO ENSURE SEPARATION FROM CONCRETE WITHOUT DAMAGE.</p> <p>C. INSTALL FABRICATED BAR MATS IN LENGTHS AS LONG AS PRACTICABLE. HANDLE UNITS TO KEEP THEM FLAT AND FREE OF DISTORTIONS. STRAIGHTEN BENDS, KINKS, AND OTHER IRREGULARITIES, OR REPLACE UNITS AS REQUIRED BEFORE PLACEMENT. SET MATS FOR A MINIMUM 2-INCH (50 MM) OVERLAP TO ADJACENT MATS.</p> <p>3.03</p> <p>A. GENERAL: FORM CONSTRUCTION, EXPANSION, SCORE JOINTS, AND TOOL EDGINGS TRUE TO LINE WITH FACES PERPENDICULAR TO SURFACE PLANE OF CONCRETE. CONSTRUCT TRANSVERSE JOINTS AT RIGHT ANGLES TO CENTERLINE, UNLESS OTHERWISE INDICATED.</p> <p>1. WHEN JOINING EXISTING PAVEMENT, PLACE TRANSVERSE JOINTS TO ALIGN WITH PREVIOUSLY PLACED JOINTS, UNLESS OTHERWISE INDICATED.</p> <p>B. CONSTRUCTION JOINTS: SET CONSTRUCTION JOINTS AT SIDE AND END TERMINATIONS OF PAVEMENT AND AT LOCATIONS WHERE PAVEMENT OPERATIONS ARE STOPPED FOR MORE THAN ONE-HALF HOUR, UNLESS PAVEMENT TERMINATES AT ISOLATION JOINTS.</p> <p>1. CONTINUE REINFORCEMENT ACROSS CONSTRUCTION JOINTS, UNLESS OTHERWISE INDICATED. DO NOT CONTINUE REINFORCEMENT THROUGH SIDES OF PAVEMENT STRIPS, UNLESS OTHERWISE INDICATED.</p> <p>2. PROVIDE TIE BARS AT SIDES OF PAVEMENT STRIPS WHERE INDICATED.</p> <p>3. USE A BONDING AGENT AT LOCATIONS WHERE FRESH CONCRETE IS PLACED AGAINST HARDENED OR PARTIALLY HARDENED CONCRETE SURFACES.</p> <p>C. EXPANSION JOINTS: FORM EXPANSION JOINTS OF PREFORMED JOINT-FILLER STRIPS ABUTTING CONCRETE CURBS, CATCH BASINS, MANHOLES, INLETS, WALLS AND OTHER STRUCTURES, WALKS, OTHER FIXED OBJECTS, AND WHERE INDICATED.</p> <p>1. LOCATE EXPANSION JOINTS AT INTERVALS OF 25' MAXIMUM FEET, UNLESS OTHERWISE INDICATED.</p> <p>2. EXTEND JOINT FILLERS FULL WIDTH AND DEPTH OF JOINT.</p> <p>3. TERMINATE JOINT FILLER LESS THAN 1/2 INCH (12 MM) OR MORE THAN 1 INCH (25 MM) BELOW FINISHED SURFACE IF JOINT SEALANT IS INDICATED.</p> <p>4. PLACE TOP OF JOINT FILLER FLUSH WITH FINISHED CONCRETE SURFACE IF JOINT SEALANT IS NOT INDICATED.</p> <p>5. FURNISH JOINT FILLERS IN ONE-PIECE LENGTHS. WHERE MORE THAN ONE LENGTH IS REQUIRED, LACE OR CLIP JOINT-FILLER SECTIONS TOGETHER.</p> <p>6. PROTECT TOP EDGE OF JOINT FILLER DURING CONCRETE PLACEMENT WITH METAL, PLASTIC, OR OTHER TEMPORARY PREFORMED CAP. REMOVE PROTECTIVE CAP AFTER CONCRETE HAS BEEN PLACED ON BOTH SIDES OF JOINT.</p> <p>D. CONTROL/SCORE JOINTS: CONSTRUCT CONTROL JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED PER DETAILS ON DRAWINGS. CONSTRUCT WEAKENED-PLANE CONTRACTION JOINTS WHERE INDICATED FOR A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF THE CONCRETE THICKNESS.</p> <p>1. TOOLED / GROOVED JOINTS: FORM TOOLED JOINTS AFTER INITIAL FLOATING BY GROOVING AND FINISHING EACH EDGE OF JOINT WITH GROOVED TOOL TO THE DEPTH AND RADIUS SHOWN ON THE DETAILS ON THE DRAWINGS. REPEAT GROOVING OF CONTRACTION JOINTS AFTER APPLYING SURFACE FINISHES. ELIMINATE GROOVED MARKS ON CONCRETE SURFACES.</p>	E. EDGING: TOOL EDGES OF PAVEMENT, GUTTERS, CURBS, AND JOINTS IN CONCRETE AFTER INITIAL FLOATING WITH AN EDGING TOOL TO THE FOLLOWING RADIUS. REPEAT TOOLING OF EDGES AFTER APPLYING SURFACE FINISHES. ELIMINATE TOOL MARKS ON CONCRETE SURFACES.	3.05	CAST-IN-PLACE CONCRETE FINISHING	<p>A. ROUGH FORM FINISH: FOR FORMED CONCRETE SURFACES NOT EXPOSED-TO-VIEW IN THE FINISH WORK OR BY OTHER CONSTRUCTION, UNLESS OTHERWISE INDICATED. THIS IS THE CONCRETE SURFACE HAVING TEXTURE IMPARTED BY FORM FACING MATERIAL USED, WITH TIE HOLES AND DEFECTIVE AREAS REPAIRED AND PATCHED AND FINS AND OTHER PROJECTIONS EXCEEDING 1/4" IN HEIGHT RUBBED DOWN OR CHIPPED OFF.</p> <p>B. FOR FORMED CONCRETE SURFACES EXPOSED-TO-VIEW, OR THAT ARE TO BE COVERED WITH A COATING MATERIAL APPLIED DIRECTLY TO CONCRETE, SUCH AS WATERPROOFING, DAMPROOFING, PAINTING OR OTHER SIMILAR SYSTEM. THIS IS AS-CAST CONCRETE SURFACE OBTAINED WITH SELECTED FORM FACING MATERIAL, ARRANGED ORDERLY AND SYMMETRICALLY WITH A MINIMUM OF SEAMS. REPAIR AND PATCH DEFECTIVE AREAS WITH FINS OR OTHER PROJECTIONS COMPLETELY REMOVED AND SMOOTHED.</p>
3.04	CONCRETE PLACEMENT	<p>A. INSPECTION: BEFORE PLACING CONCRETE, INSPECT AND COMPLETE FORMWORK INSTALLATION, REINFORCEMENT STEEL, AND ITEMS TO BE EMBEDDED OR CAST IN. NOTIFY OTHER TRADES TO PERMIT INSTALLATION OF THEIR WORK.</p> <p>B. MOISTEN SUBBASE TO PROVIDE A UNIFORM DAMPENED CONDITION AT THE TIME CONCRETE IS PLACED. DO NOT PLACE CONCRETE AROUND MANHOLES OR OTHER STRUCTURES UNTIL THEY ARE AT THE REQUIRED FINISH ELEVATION AND ALIGNMENT.</p> <p>C. COMPLY WITH REQUIREMENTS AND WITH RECOMMENDATIONS IN ACI 304R FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE.</p> <p>D. DEPOSIT AND SPREAD CONCRETE IN A CONTINUOUS OPERATION BETWEEN TRANSVERSE JOINTS. DO NOT PUSH OR DRAG CONCRETE INTO PLACE OR USE VIBRATORS TO MOVE CONCRETE INTO PLACE.</p>	3.06	BROOMED FINISH	<p>A. PLACE CONCRETE MIX AND SCREED TO PROPER GRADE, WOOD FLOAT TO A UNIFORM SURFACE IN THE NORMAL MANNER.</p> <p>B. PULL BROOM ACROSS FRESHLY FLOATED CONCRETE TO PRODUCE MEDIUM TEXTURE IN STRAIGHT LINES PERPENDICULAR TO MAIN LINE OF TRAFFIC. DO NOT DAMPEN BROOMS.</p> <p>C. PROTECT CONCRETE THROUGHOUT THE COURSE OF CONSTRUCTION</p>	
3.07	CONCRETE PROTECTION AND CURING	<p>A. GENERAL: PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. COMPLY WITH ACI 306.1 FOR COLD-WEATHER PROTECTION AND FOLLOW RECOMMENDATIONS IN ACI 305R FOR HOT-WEATHER PROTECTION DURING CURING.</p> <p>B. EVAPORATION RETARDER: APPLY EVAPORATION RETARDER TO CONCRETE SURFACES IF HOT, DRY, OR WINDY CONDITIONS CAUSE MOISTURE LOSS APPROACHING 0.2 LB./SQ. FT. X H (1 KG/SQ. M X H) BEFORE AND DURING FINISHING OPERATIONS. APPLY ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AFTER PLACING, SCREEDING, AND BULL FLOATING OR DARBYING CONCRETE, BUT BEFORE FLOAT FINISHING.</p> <p>C. BEGIN CURING AFTER FINISHING CONCRETE, BUT NOT BEFORE FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE.</p> <p>D. CURING METHODS: CURE CONCRETE BY MOISTURE CURING, MOISTURE-RETAINING-COVER CURING, CURING COMPOUND, OR A COMBINATION OF THESE AS FOLLOWS:</p> <p>1. MOISTURE CURING: KEEP SURFACES CONTINUOUSLY MOIST FOR NOT LESS THAN SEVEN DAYS WITH THE FOLLOWING MATERIALS:</p> <p>a. WATER</p> <p>b. CONTINUOUS WATER-FOG SPRAY.</p> <p>c. ABSORPTIVE COVER, WATER SATURATED, AND KEPT CONTINUOUSLY WET. COVER CONCRETE SURFACES AND EDGES WITH 12-INCH (300-MM) LAP OVER ADJACENT ABSORPTIVE COVERS.</p> <p>2. MOISTURE-RETAINING-COVER CURING: COVER CONCRETE SURFACES WITH MOISTURE-RETAINING COVER FOR CURING CONCRETE, PLACED IN WIDEST PRACTICABLE WIDTH, WITH SIDES AND ENDS LAPPED AT LEAST 12 INCHES (300 MM), AND SEALED BY WATERPROOF TAPE OR ADHESIVE. IMMEDIATELY REPAIR ANY HOLES OR TEARS DURING CURING PERIOD USING COVER MATERIAL AND WATERPROOF TAPE.</p> <p>3. CURING COMPOUND: APPLY UNIFORMLY IN CONTINUOUS OPERATION BY POWER SPRAY OR ROLLER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. RECOAT AREAS SUBJECT TO HEAVY RAINFALL WITHIN THREE HOURS AFTER INITIAL APPLICATION. MAINTAIN CONTINUITY OF COATING AND REPAIR DAMAGE DURING CURING PERIOD.</p>	3.08	CONCRETE SEALER	<p>A. APPLY SPECIFIED SEALER PER MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.</p> <p>B. POLISH THE SEALED SURFACE WITH A FINE BRUSH, REMOVING RESIDUAL DUST FROM THE SURFACE AND PROTECT CONCRETE THROUGHOUT THE COURSE OF CONSTRUCTION.</p>	
3.09	PAVEMENT TOLERANCES	<p>A. COMPLY WITH TOLERANCES OF ACI 117 AND AS FOLLOWS:</p> <p>K. FOG-SPRAY FORMS, REINFORCEMENT STEEL, AND SUBGRADE JUST BEFORE PLACING CONCRETE. KEEP SUBGRADE MOISTURE UNIFORM WITHOUT STANDING WATER, SOFT SPOTS, OR DRY AREAS.</p>	3.10	FIELD QUALITY CONTROL	<p>A. TESTING AGENCY: ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTION AGENCY TO SAMPLE MATERIALS, PERFORM TESTS, AND SUBMIT TEST REPORTS DURING CONCRETE PLACEMENT ACCORDING TO REQUIREMENTS SPECIFIED IN THIS ARTICLE</p> <p>B. TESTING SERVICES: TESTING SHALL BE PERFORMED ACCORDING TO THE FOLLOWING REQUIREMENTS:</p> <p>1. SAMPLING FRESH CONCRETE: REPRESENTATIVE SAMPLES OF FRESH CONCRETE SHALL BE OBTAINED ACCORDING TO ASTM C 172, EXCEPT MODIFIED FOR SLUMP TO COMPLY WITH ASTM C 94.</p> <p>2. SLUMP: ASTM C 143; ONE TEST AT POINT OF PLACEMENT FOR EACH COMPRESSIVE-STRENGTH TEST, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH TYPE OF CONCRETE. ADDITIONAL TESTS WILL BE REQUIRED WHEN CONCRETE CONSISTENCY CHANGES.</p> <p>3. AIR CONTENT: ASTM C 231, PRESSURE METHOD; ONE TEST FOR EACH COMPRESSIVE-STRENGTH TEST, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH TYPE OF CONCRETE. ADDITIONAL TESTS WILL BE REQUIRED WHEN CONCRETE CONSISTENCY CHANGES.</p> <p>4. CONCRETE TEMPERATURE: ASTM C 1064; ONE TEST HOURLY WHEN AIR TEMPERATURE IF 40 DEG F (4.4 DEG C) AND BELOW AND WHEN 80 DEG F (27 DEG C) AND ABOVE, AND ONE TEST FOR EACH SET OF COMPRESSIVE-STRENGTH SPECIMENS.</p> <p>5. COMPRESSION TEST SPECIMENS: ASTM C 31/C31M; ONE SET OF FOUR STANDARD CYLINDERS FOR EACH COMPRESSIVE-STRENGTH TEST, UNLESS OTHERWISE INDICATED. CYLINDERS SHALL BE MOLDED AND STORED FOR LABORATORY-CURED TEST SPECIMENS UNLESS FIELD-CURED TEST SPECIMENS ARE REQUIRED.</p> <p>6. COMPRESSIVE-STRENGTH TESTS: ASTM C 39; ONE SET FOR EACH DAY'S POUR OF EACH CONCRETE CLASS EXCEEDING 5 CU. YD.</p> <p>7. WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE COMPRESSIVE-STRENGTH TESTS FOR A GIVEN CLASS OF CONCRETE, TESTING SHALL BE CONDUCTED FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED.</p> <p>8. WHEN TOTAL QUANTITY OF A GIVEN CLASS OF CONCRETE IS LESS THAN 50 CU. YD. (38 CU. M), ARCHITECT MAY WAIVE COMPRESSIVE-STRENGTH TESTING IF ADEQUATE EVIDENCE OF SATISFACTORY STRENGTH IS PROVIDED.</p> <p>9. WHEN STRENGTH OF FIELD-CURED CYLINDERS IS LESS THAN 85 PERCENT OF COMPANION LABORATORY-CURED CYLINDERS, CURRENT OPERATIONS SHALL BE EVALUATED AND CORRECTIVE PROCEDURES SHALL BE PROVIDED FOR PROTECTING AND CURING IN-PLACE CONCRETE.</p> <p>10. STRENGTH LEVEL OF CONCRETE WILL BE CONSIDERED SATISFACTORY IF AVERAGES OF SETS OF THREE CONSECUTIVE COMPRESSIVE-STRENGTH TEST RESULTS FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI (3.4 MPa).</p>	



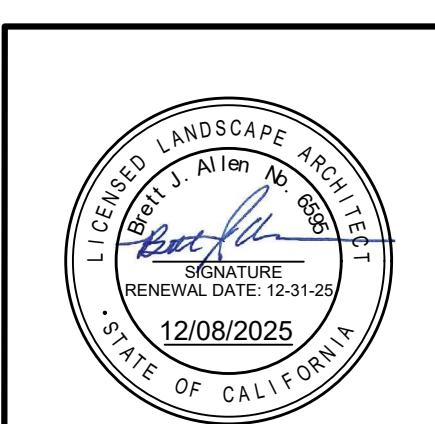
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<p><b>VALLECITOS WATER DISTRICT</b></p> <p>APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT CONSTITUTE A CONTRACT BETWEEN THE VALLECITOS WATER DISTRICT AND THE PROPERTY OWNER. IT DOES NOT CONSTITUTE AN AGREEMENT BY THE VALLECITOS WATER DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THE PROPERTY OWNER. IT DOES NOT CONSTITUTE A PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE TO THE PROPERTY OWNER.</p>	
By: _____	Date: _____
<p>JASON P. HUBBARD, P.E. DISTRICT ENGINEER</p>	
R.C.E. NO. 60317	exp.: 6/30/2024
<p>APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE OF APPROVAL.</p>	

SAN MARCOS FIRE PROTECTION DISTRICT		△ NO.	DESCR
MIT E	By: _____ Date: _____ JASON NAILON, FIRE MARSHAL REQUIRED FIRE HYDRANT FLOW _____*(GPM)		
—	APPROVED FIRE HYDRANT FLOW _____*(GPM) <input type="checkbox"/> APPROVED FIRE FLOW INCLUDES MITIGATION MEASURES *GALLON PER MINUTE		
—	VALLECITOS WATER DISTRICT IS NOT RESPONSIBLE FOR MAINTENANCE, REPAIR, OR REPLACEMENT OF FIRE HYDRANTS UNLESS SPECIFIED UNDER SEPARATE AGREEMENT WITH THE JURISDICTIONAL FIRE AGENCY		
SIGNED	VWD AS-BUILT		
	By: _____ Date: _____ NAME (ENGINEER OF WORK)		
		6/20/2014	

LANDSCAPE ARCHITECT OF WORK	
By: _____	
License No.: _____	exp.: _____
Date: _____	
RECOMMENDED FOR APPROVAL	
By: _____	Andrew Proud, Landscape Inspection Supervisor
Date: _____	
APPROVED FOR CONSTRUCTION	
By: _____	Description: _____
Isaac Etchamendy, City Engineer	
R.C.E.: _____	Location: _____
exp.: _____	Record From: _____



WORK AS-BUILT CERTIFICATE  
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KNOWLEDGE AND BELIEF, THE  
SET OF CONSTRUCTION  
SHEET XXXX, HAVE BEEN  
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NARROW APPROVAL(S) FOR THE

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INSPECTED AND RECOMMENDED  
FOR ACCEPTANCE

DOI: 10.1007/s00339-018-1000-0 | <http://www.springerlink.com> | [www.springer.com/10339](http://www.springer.com/10339)

APPROVED AS RECORD PLAN

MAC\_ECHAMENDY 81294 9/30/2026

DATE: \_\_\_\_\_

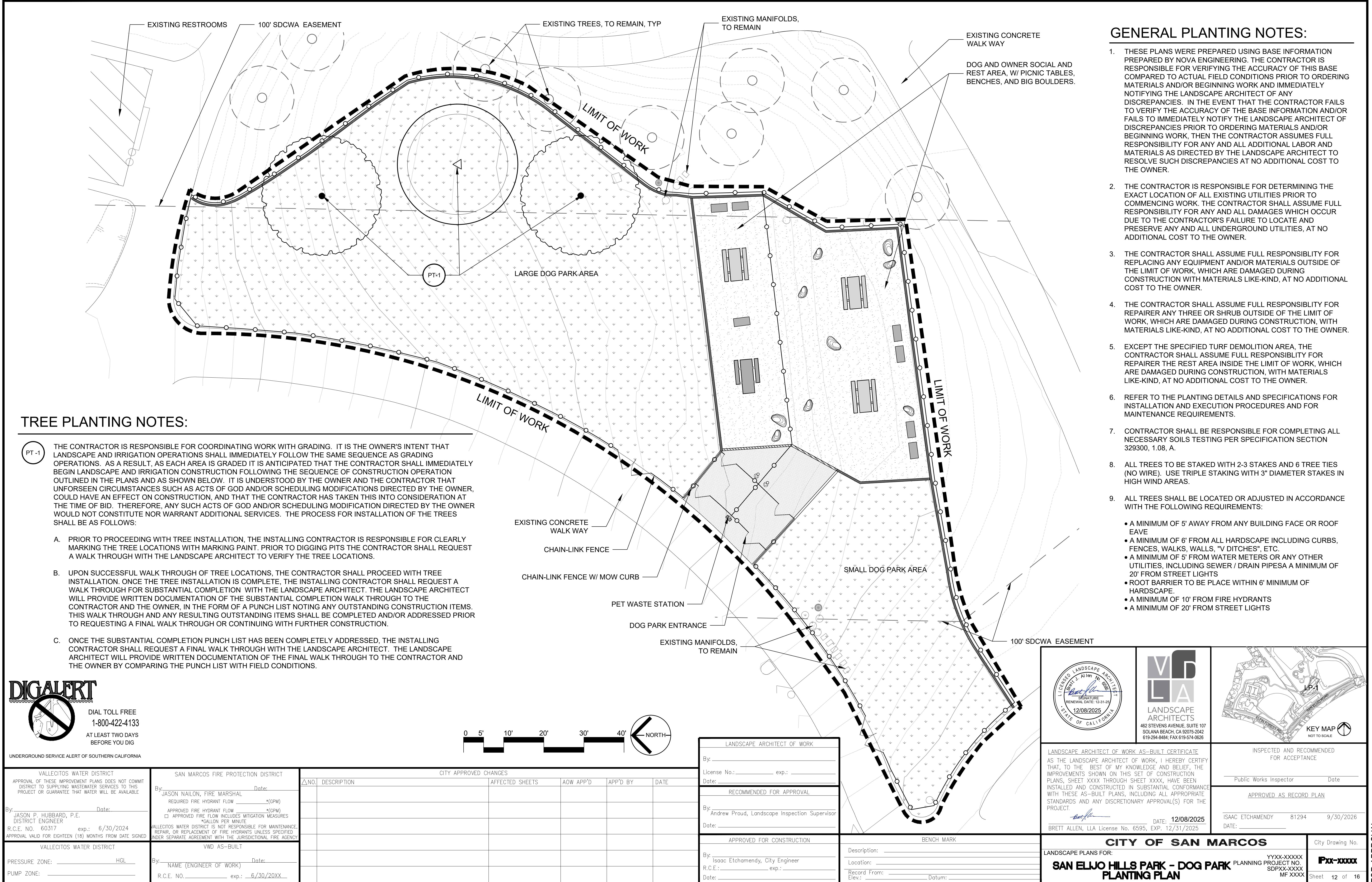
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# **CITY OF SAN MARCOS**

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<p>C. TEST RESULTS SHALL BE REPORTED IN WRITING TO LANDSCAPE ARCHITECT, CONCRETE MANUFACTURER, AND CONTRACTOR WITHIN 24 HOURS OF TESTING. REPORTS OF COMPRESSIVE-STRENGTH TESTS SHALL CONTAIN PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING AGENCY, CONCRETE TYPE AND CLASS, LOCATION OF CONCRETE BATCH IN PAVEMENT, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIX PROPORTIONS AND MATERIALS, COMPRESSIVE BACKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7- AND 28-DAY TESTS.</p> <p>D. NONDESTRUCTIVE TESTING: IMPACT HAMMER, SONOSCOPE, OR OTHER NONDESTRUCTIVE DEVICE MAY BE PERMITTED BY LANDSCAPE ARCHITECT BUT WILL NOT BE USED AS THE SOLE BASIS FOR APPROVAL OR REJECTION.</p> <p>E. ADDITIONAL TESTS: TESTING AGENCY SHALL MAKE ADDITIONAL TESTS OF THE CONCRETE WHEN TEST RESULTS INDICATE SLUMP, AIR ENTRAINMENT, CONCRETE STRENGTHS, OR OTHER REQUIREMENTS HAVE NOT BEEN MET, AS DIRECTED BY LANDSCAPE ARCHITECT. TESTING AGENCY MAY CONDUCT TEST TO DETERMINE ADEQUACY OF CONCRETE BY CORED CYLINDERS COMPLYING WITH ASTM C 42, OR BY OTHER METHODS AS DIRECTED.</p> <p>3.11 REPAIRS AND PROTECTION</p> <p>A. REMOVE AND REPLACE CONCRETE PAVING THAT IS BROKEN, DAMAGED, OR DEFECTIVE, OR DOES NOT MEET THE REQUIREMENTS OF THIS SECTION.</p> <p>B. PROTECT CONCRETE FROM DAMAGE. EXCLUDE TRAFFIC FROM PAVING FOR AT LEAST 14 DAYS AFTER PLACEMENT. WHEN CONSTRUCTION TRAFFIC IS PERMITTED, MAINTAIN PAVING AS CLEAN AS POSSIBLE BY REMOVING SURFACE STAINS AND SPILLAGE OF MATERIALS AS THEY OCCUR.</p> <p>C. MAINTAIN CONCRETE PAVING FREE OF STAINS, DISCOLORATION, DIRT, AND OTHER FOREIGN MATERIAL. SWEEP CONCRETE PAVING NOT MORE THAN 2 DAYS PRIOR TO DATE SCHEDULED FOR SUBSTANTIAL COMPLETION INSPECTIONS.</p> <p>END OF SECTION 320523</p> <p>SECTION 321540 DECOMPOSED GRANITE SURFACING</p> <p>PART 1 - GENERAL</p> <p>1.01 SUMMARY</p> <p>A. SECTION INCLUDES:</p> <ol style="list-style-type: none"> <li>1. NATURALLY OCCURRING DECOMPOSED GRANITE AND CRUSHED STONE SURFACING AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN. INCLUDE SUB-GRADE, EDGING AND RELATED ACCESSORIES.</li> </ol> <p>1.02 REFERENCES AND STANDARDS:</p> <p>A. ASTM C136 – STANDARD TEST METHOD FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES.</p> <p>B. ASTM D448 – STANDARD CLASSIFICATION FOR SIZES OF AGGREGATE FOR ROAD AND BRIDGE CONSTRUCTION. ASTM: AMERICAN STANDARD FOR TESTING MATERIALS</p> <p>1.03 SUBMITTALS</p> <p>A. COMPLY WITH SECTION 01 33 00 SUBMITTAL PROCEDURES.</p> <p>B. SHOP DRAWINGS: SUBMIT PLAN LAYOUT OF ALL DECOMPOSED GRANITE SURFACING AREAS AND DETAIL DRAWINGS SHOWING THE VARIOUS COMPONENTS OF THE SURFACING SYSTEM, INCLUDING SUB-BASE AND EDGING.</p> <p>C. PRODUCT DATA: MANUFACTURER'S LITERATURE COMPLETELY DESCRIBING ALL COMPONENTS OF THE DECOMPOSED GRANITE SURFACING SYSTEM, INCLUDING:</p>			<p>1. PREPARATION INSTRUCTIONS AND RECOMMENDATIONS.</p> <p>2. INSTALLATION METHODS AND APPLICATION PROCEDURES.</p> <p>D. SAMPLES FOR VERIFICATION:</p> <p>1. SUBMIT SAMPLES OF EACH OF THE FOLLOWING:</p> <ol style="list-style-type: none"> <li>THREE POUND SAMPLE OF EACH TYPE AND COLOR OF DECOMPOSED GRANITE SURFACING MATERIAL.</li> </ol> <p>E. CERTIFICATION:</p> <p>1. MANUFACTURER AND INSTALLER QUALIFICATIONS.</p> <p>1.04 QUALITY ASSURANCE</p> <p>A. COMPLY WITH SECTION 01 40 00 QUALITY REQUIREMENTS.</p> <p>B. MANUFACTURER: COMPANY SPECIALIZING IN MANUFACTURING WORK OF THIS SECTION WITH MINIMUM 5 YEARS DOCUMENTED EXPERIENCE.</p> <p>C. SINGLE SOURCE RESPONSIBILITY: OBTAIN EACH TYPE OF DECOMPOSED GRANITE SURFACING FROM SINGLE MANUFACTURER.</p> <p>D. MOCK UP: PROVIDE A MOCK-UP FOR EVALUATION OF SURFACE PREPARATION, INSTALLATION TECHNIQUES AND QUALITY OF APPLICATION.</p> <ol style="list-style-type: none"> <li>1. INSTALL A 4-FEET X 4-FEET MINIMUM OF DECOMPOSED GRANITE SURFACING, INCLUDING SUBBASE COURSE AND EDGING, AT LOCATION APPROVED BY LANDSCAPE ARCHITECT.</li> <li>2. DO NOT PROCEED WITH REMAINING WORK UNTIL INSTALLATION OF DECOMPOSED GRANITE SURFACING IS APPROVED BY LANDSCAPE ARCHITECT.</li> <li>3. APPROVED MOCK-UP MAY REMAIN AS PART OF COMPLETED WORK.</li> </ol> <p>1.05 DELIVERY, STORAGE, AND HANDLING</p> <p>A. COMPLY WITH SECTION 01 60 00 PRODUCT REQUIREMENTS</p> <p>B. BAGGED MATERIALS: ACCEPT DELIVERY OF MATERIALS ONLY IN UNOPENED AND UNDAMAGED CONTAINERS BEARING THE BRAND NAME AND MANUFACTURER'S IDENTIFICATION.</p> <p>C. BULK MATERIALS: EACH LOAD OF DECOMPOSED GRANITE SURFACING MATERIAL ARRIVING AT THE JOB SITE IN BULK SHALL BE ACCOMPANIED BY A DELIVERY TICKET CONTAINING THE FOLLOWING MINIMUM INFORMATION:</p> <p>D. PROTECT DECOMPOSED GRANITE SURFACING MATERIALS FROM CONTAMINATION UNTIL READY FOR INSTALLATION.</p> <p>E. STORE UNDER COVER.</p> <p>1.06 PROJECT CONDITIONS</p> <p>A. SURFACES TO RECEIVE DECOMPOSED GRANITE SURFACING SHALL BE FROST FREE AND FREE OF OIL OR ANY OTHER FOREIGN MATTER, WHICH MAY IMPAIR THE PROPER INSTALLATION OF THE SURFACING SYSTEM.</p> <p>B. DO NOT INSTALL DECOMPOSED GRANITE SURFACING WHEN SUBBASE COURSE IS MUDDY OR SATURATED WITH STANDING WATER.</p> <p>C. PERFORM WORK IN DRY WEATHER WHEN SUBGRADE IS SUFFICIENTLY STABLE TO BE PROPERLY COMPACTION.</p> <p>PART 2 – PRODUCTS</p> <p>2.01 STABILIZED DECOMPOSED GRANITE</p> <p>A. DECOMPOSED GRANITE SHALL BE BLENDED MATERIAL CONSISTING OF NATURAL COLORS RANGING FROM TAN TO GOLD. MATERIAL SIZE SHALL NOT EXCEED 3/8".</p> <p>B. DECOMPOSED GRANITE SHALL BE COMPACTION TO A MINIMUM THICKNESS OF 4 INCHES AND SHALL BE COMPACTION TO 85%.</p> <p>C. DECOMPOSED GRANITE PATHWAYS AND TRAILS SHALL BE SUBJECT TO ADA GUIDELINES UNLESS OTHERWISE SPECIFIED AND APPROVED IN WRITING BY THE DISTRICT.</p> <p>D. DECOMPOSED GRANITE SHALL BE INSTALLED FLUSH WITH ALL WALKWAYS AND CURBS.</p> <p>E. ALL DECOMPOSED GRANITE PATHWAYS AND TRAILS SHALL HAVE A CROSS FALL OF 2% MAX. ALL DECOMPOSED GRANITE PATHWAYS SHALL BE CROWNED IN THE CENTER.</p> <p>F. ALL DECOMPOSED GRANITE MUST SHEET FLOW AT 1-1/2% MINIMUM TO 2% MAXIMUM TO AVOID STANDING WATER.</p> <p>G. CONTRACTOR SHALL SUBMIT SAMPLES FOR DISTRICT APPROVAL PRIOR TO DELIVERY.</p> <p>H. DECOMPOSED GRANITE SHALL BE DERIVED FROM THE CRUSHING AND SCREENING OF NATURALLY FRIABLE GRANITE. THE BLENDING OF COURSE SAND WITH ROCK DUST IS NOT AN EQUAL PRODUCT.</p> <p>I. DECOMPOSED GRANITE SHALL BE SCREENED TO INCLUDE STONE PARTICLES OF 3/8" MINUS. THE PARTICLES THAT PASS THE 200 SCREEN MESH AS DETERMINED BY ASTM METHODOLOGY SHALL NOT EXCEED 18 PERCENT.</p> <p>J. DECOMPOSED GRANITE SHALL HAVE A NATRACIL™ ORGANIC BINDER WITH A MINIMUM SWELL VOLUME OF 35 ML/GM. THE BINDER SHALL BE INCORPORATED WITH THE GRANITE FINES BY THE USE OF A PUG MILL THAT INCLUDES A WEIGHT BELT FEEDER THAT INSURES THE PROPER RATIO OF BINDER TO GRANITE FINES. BLENDING WITH THE USE OF A BUCKET LOADER OR SIMILAR IS NOT ACCEPTABLE. FOR PATHWAYS THE BINDER SHALL BE BLENDED AT THE RATE OF 12 LBS. PER TON OF GRANITE FINES. FOR PARKING LOTS OR ROADWAYS THE BINDER SHALL BE INCORPORATED AT THE RATE OF 14 LBS. PER TON. PATHWAYS, DRIVEWAYS OR VEHICULAR ROADWAYS SHALL HAVE STABILIZED DECOMPOSED GRANITE AND BE PLACED TO A MINIMUM DEPTH OF 3" COMPACTED OVER AN APPROVED BASE. EACH 2" LIFT EVENLY SPREAD THE MATERIAL OVER AREA OF CONCERN. GRADE AND SMOOTH AS DESIRED. THOROUGHLY WATER ENTIRE AREA SO THAT THE ENTIRE DEPTH OF THE MATERIAL IS MOIST. AFTER A PERIOD OF +/- 6 HOURS COMPACT THE FINAL LIFT WITH A 1000-3000 LB. DRUM ROLLER. ALLOW FOR A SUFFICIENT CURING PERIOD OF +/- 4 DAYS PRIOR TO USE.</p> <p>K. SUPPLIER: GAIL MATERIALS (951) 667-6106, WWW.GAILMATERIALS.NET OR APPROVED EQUAL.</p> <p>PART 3 – EXECUTION</p> <p>3.01 EXAMINATION</p> <p>A. EXAMINE AREAS AND CONDITIONS UNDER WHICH WORK OF THIS SECTION WILL BE PERFORMED. NOTIFY LANDSCAPE ARCHITECT OF UNSATISFACTORY PREPARATION BEFORE PROCEEDING.</p> <p>B. CORRECT CONDITIONS DETERMINED TO TIMELY AND PROPER COMPLETION OF WORK.</p> <p>C. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.</p> <p>D. LAY OUT WORK PRIOR TO THE COMMENCEMENT OF INSTALLATION.</p> <p>3.02 PREPARATION</p> <p>A. EXCAVATION: EXCAVATE TO DEPTH REQUIRED SO EDGES OF DECOMPOSED GRANITE SURFACING WILL MATCH ADJACENT GRADES AND HAVE A MAXIMUM CROSS-SLOPE OF 2 PERCENT. ENSURE EDGES AND BOTTOM OF EXCAVATION ARE IN A SMOOTH AND EVEN LINE.</p> <p>B. SUBGRADE PREPARATION: PLOW, HARROW AND MIX THE ENTIRE SURFACE OF THE IN-PLACE SUBGRADE TO A DEPTH OF AT LEAST 6-INCHES. AFTER THE MATERIAL HAS BEEN THOROUGHLY MIXED, THE SUBGRADE SHALL BE BROUGHT TO LINE AND GRADE AND COMPACTION TO 95% OF THE MAXIMUM LABORATORY DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST.</p> <p>C. HERBICIDE: APPLY HERBICIDE PER MANUFACTURER'S WRITTEN INSTRUCTIONS. LIMIT THE APPLICATION TO THE AREA TO RECEIVE DECOMPOSED GRANITE SURFACING.</p> <p>3.03 INSTALLATION</p> <p>A. EDGING: INSTALL EDGING AS SHOWN ON PLANS AND DETAILS.</p> <p>B. SUBGRADE: PROOF-ROLL THE SUBGRADE WITH HEAVY PNEUMATIC-TIRED EQUIPMENT TO LOCATE UNSTABLE AREAS AND TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. DO NOT PROOF-ROLL WET OR SATURATED SUBGRADES.</p> <p>1. EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS, AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AS DETERMINED BY LANDSCAPE ARCHITECT, AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED.</p> <p>2. THE SURFACE OF THE COMPLETED SUBGRADE SHALL BE BLADED TO A SMOOTH AND UNIFORM TEXTURE.</p> <p>3. THE FINISHED SUBGRADE SHALL BE UNIFORM AND FREE FROM DELETERIOUS DEBRIS SUCH AS ORGANIC MATERIALS, NAILS, STONES AND LOOSE SOIL.</p> <p>C. COMPACTION: COMPACT EACH LIFT OF THE SUBGRADE, AND FINAL FINISH DECOMPOSED GRANITE SURFACING MATERIALS WITH A ONE TO THREE-TON ROLLER OR COMPACTOR. IN SMALL AREAS THAT ARE DIFFICULT TO ACCESS WITH COMPACTION EQUIPMENT, HAND TAMPING MAY BE PERFORMED WITH MULTIPLE PASSES TO ACHIEVE THE REQUIRED DENSITY.</p> <p>1. LIGHTLY SPRAY SURFACE AREA FOLLOWING COMPACTION. DO NOT DISTURB AGGREGATE SURFACE WITH SPRAY ACTION.</p> <p>3.04 INSTALLATION OF DECOMPOSED GRANITE SURFACING</p> <p>A. SPREAD DECOMPOSED GRANITE SURFACING MATERIAL IN 2-INCH LIFTS. SPREAD THE PATHWAY MIX EVENLY AND SMOOTHLY BEFORE COMPACTION. ALLOW FOR 20-25% COMPACTION. SCREED IF POSSIBLE.</p> <p>B. WET THE MIX TO ENSURE WATER HAS PENETRATED THE FULL DEPTH OF THE DECOMPOSED GRANITE SURFACING MATERIAL, AND ROLL EACH LIFT TO FORM A UNIFORM, SMOOTH SURFACE WITH A CROSS SLOPE OF 2% MAXIMUM. COMPACT EACH LIFT TO A MINIMUM 95% DENSITY.</p> <p>C. GRADE AND SMOOTH TO THE REQUIRED ELEVATION; COMPACT FINAL LIFT WITH 1-3 TON DRUM ROLLER OR COMPACTOR.</p> <p>D. MINIMUM COMPACTION THICKNESS: 4"</p> <p>E. SURFACE SHALL FOLLOW GRADES PER PLANS. REMOVE CROWN, ALLOW 1-2% CROSS PITCH.</p> <p>F. COMPLETED SURFACE SHALL BE OF CONSISTENT QUALITY AND SHALL NOT HAVE DEPRESSIONS OR HUMPS GREATER THAN 1/4-INCH IN 10-FEET.</p> <p>3.05 INSTALLATION TOLERANCES</p> <p>A. DECOMPOSED GRANITE SURFACING THICKNESS: ALLOW FOR 20-25% COMPACTION.</p> <ol style="list-style-type: none"> <li>1. SUBBASE COURSE: PLUS OR MINUS 1/2-INCH.</li> <li>2. SURFACE COURSE: PLUS 1/4-INCH, NO MINUS.</li> </ol> <p>B. DECOMPOSED GRANITE SURFACING SMOOTHNESS: PRODUCE A SURFACE SMOOTHNESS WITHIN 1/4-INCH TOLERANCE WHEN MEASURED WITH A 10-FOOT STRAIGHTEDGE.</p> <p>3.06 CLEAN-UP AND PROTECTION</p> <p>A. THOROUGHLY CLEAN ALL AREAS WHERE WORK HAS OCCURRED. REMOVE FROM SITE EXCESS MATERIAL, DEBRIS AND RUBBISH.</p> <p>B. TAKE ALL PRECAUTIONS NECESSARY TO PROTECT COMPLETED WORK UNTIL SUBSTANTIAL COMPLETION OF PROJECT.</p> <p>END OF SECTION 321540</p>		
<p><b>DIG ALERT</b> DIAL TOLL FREE 1-800-422-4133 AT LEAST TWO DAYS BEFORE YOU DIG UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA</p> <p>VALLECITO WATER DISTRICT APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE</p> <p>By: JASON P. HUBBARD, P.E. Date: 6/30/2024 R.C.E. NO. 60317 exp.: 6/30/2024 APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED</p> <p>VALLECITO WATER DISTRICT PRESSURE ZONE: _____ HGL PUMP ZONE: _____</p> <p>SAN MARCOS FIRE PROTECTION DISTRICT By: JASON NAILON, FIRE MARSHAL Date: 6/30/2024 APPROVED FIRE HYDRANT FLOW * (GPM) APPROVED FIRE HYDRANT FLOW INCLUDES MITIGATION MEASURES *GALLON PER MINUTE VALLECITO WATER DISTRICT IS NOT RESPONSIBLE FOR MAINTENANCE, REPAIR, OR REPLACEMENT OF FIRE HYDRANTS UNLESS SPECIFIED UNDER SEPARATE AGREEMENT WITH THE JURISDICTIONAL FIRE AGENCY</p> <p>VWD AS-BUILT By: NAME (ENGINEER OF WORK) Date: 6/30/20XX R.C.E. NO. _____ exp.: 6/30/20XX</p>			<p><b>LANDSCAPE ARCHITECT OF WORK</b></p> <p>By: _____ License No.: _____ exp.: _____ Date: _____</p> <p>RECOMMENDED FOR APPROVAL By: Andrew Proud, Landscape Inspection Supervisor Date: _____</p> <p>APPROVED FOR CONSTRUCTION By: Isaac Etchamendy, City Engineer R.C.E.: _____ exp.: _____ Date: _____</p> <p>BENCH MARK Description: _____ Location: _____ Record From: _____ Datum: _____ Elev.: _____</p> <p><b>CITY OF SAN MARCOS</b> City Drawing No. _____</p> <p>LANDSCAPE PLANS FOR: YYYYY-XXXX SAN ELIJAH HILLS PARK - DOG PARK PLANNING PROJECT NO: SDPXX-XXXX CONSTRUCTION SPECIFICATIONS MF XXXX Sheet 11 of 16</p>		



## GENERAL PLANTING NOTES:

THESE PLANS WERE PREPARED USING BASE INFORMATION PREPARED BY NOVA ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF THIS BASE COMPARED TO ACTUAL FIELD CONDITIONS PRIOR TO ORDERING MATERIALS AND/OR BEGINNING WORK AND IMMEDIATELY NOTIFYING THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. IN THE EVENT THAT THE CONTRACTOR FAILS TO VERIFY THE ACCURACY OF THE BASE INFORMATION AND/OR FAILS TO IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF DISCREPANCIES PRIOR TO ORDERING MATERIALS AND/OR BEGINNING WORK, THEN THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY AND ALL ADDITIONAL LABOR AND MATERIALS AS DIRECTED BY THE LANDSCAPE ARCHITECT TO RESOLVE SUCH DISCREPANCIES AT NO ADDITIONAL COST TO THE OWNER.

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, AT NO ADDITIONAL COST TO THE OWNER.

THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR REPLACING ANY EQUIPMENT AND/OR MATERIALS OUTSIDE OF THE LIMIT OF WORK, WHICH ARE DAMAGED DURING CONSTRUCTION WITH MATERIALS LIKE-KIND, AT NO ADDITIONAL COST TO THE OWNER.

THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR REPAIRER ANY THREE OR SHRUB OUTSIDE OF THE LIMIT OF WORK, WHICH ARE DAMAGED DURING CONSTRUCTION, WITH MATERIALS LIKE-KIND, AT NO ADDITIONAL COST TO THE OWNER.

EXCEPT THE SPECIFIED TURF DEMOLITION AREA, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR REPAIRER THE REST AREA INSIDE THE LIMIT OF WORK, WHICH ARE DAMAGED DURING CONSTRUCTION, WITH MATERIALS LIKE-KIND, AT NO ADDITIONAL COST TO THE OWNER.

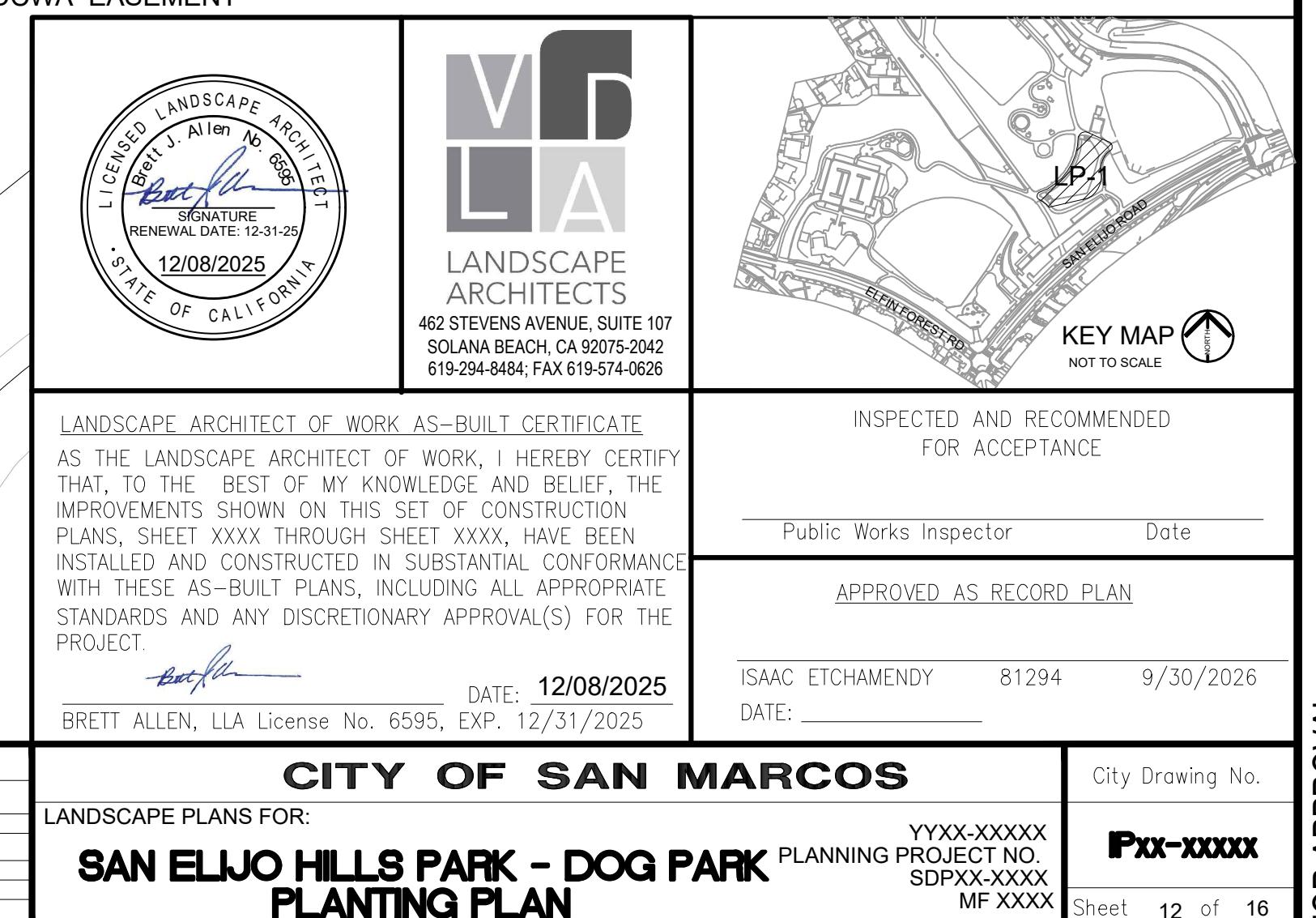
REFER TO THE PLANTING DETAILS AND SPECIFICATIONS FOR INSTALLATION AND EXECUTION PROCEDURES AND FOR MAINTENANCE REQUIREMENTS.

CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING ALL NECESSARY SOILS TESTING PER SPECIFICATION SECTION 329300, 1.08, A.

ALL TREES TO BE STAKED WITH 2-3 STAKES AND 6 TREE TIES (NO WIRE). USE TRIPLE STAKING WITH 3" DIAMETER STAKES IN HIGH WIND AREAS.

ALL TREES SHALL BE LOCATED OR ADJUSTED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

- A MINIMUM OF 5' AWAY FROM ANY BUILDING FACE OR ROOF EAVE
- A MINIMUM OF 6' FROM ALL HARDSCAPE INCLUDING CURBS, FENCES, WALKS, WALLS, "V DITCHES", ETC.
- A MINIMUM OF 5' FROM WATER METERS OR ANY OTHER UTILITIES, INCLUDING SEWER / DRAIN PIPES A MINIMUM OF 20' FROM STREET LIGHTS
- ROOT BARRIER TO BE PLACE WITHIN 6' MINIMUM OF HARDSCAPE.
- A MINIMUM OF 10' FROM FIRE HYDRANTS
- A MINIMUM OF 20' FROM STREET LIGHTS



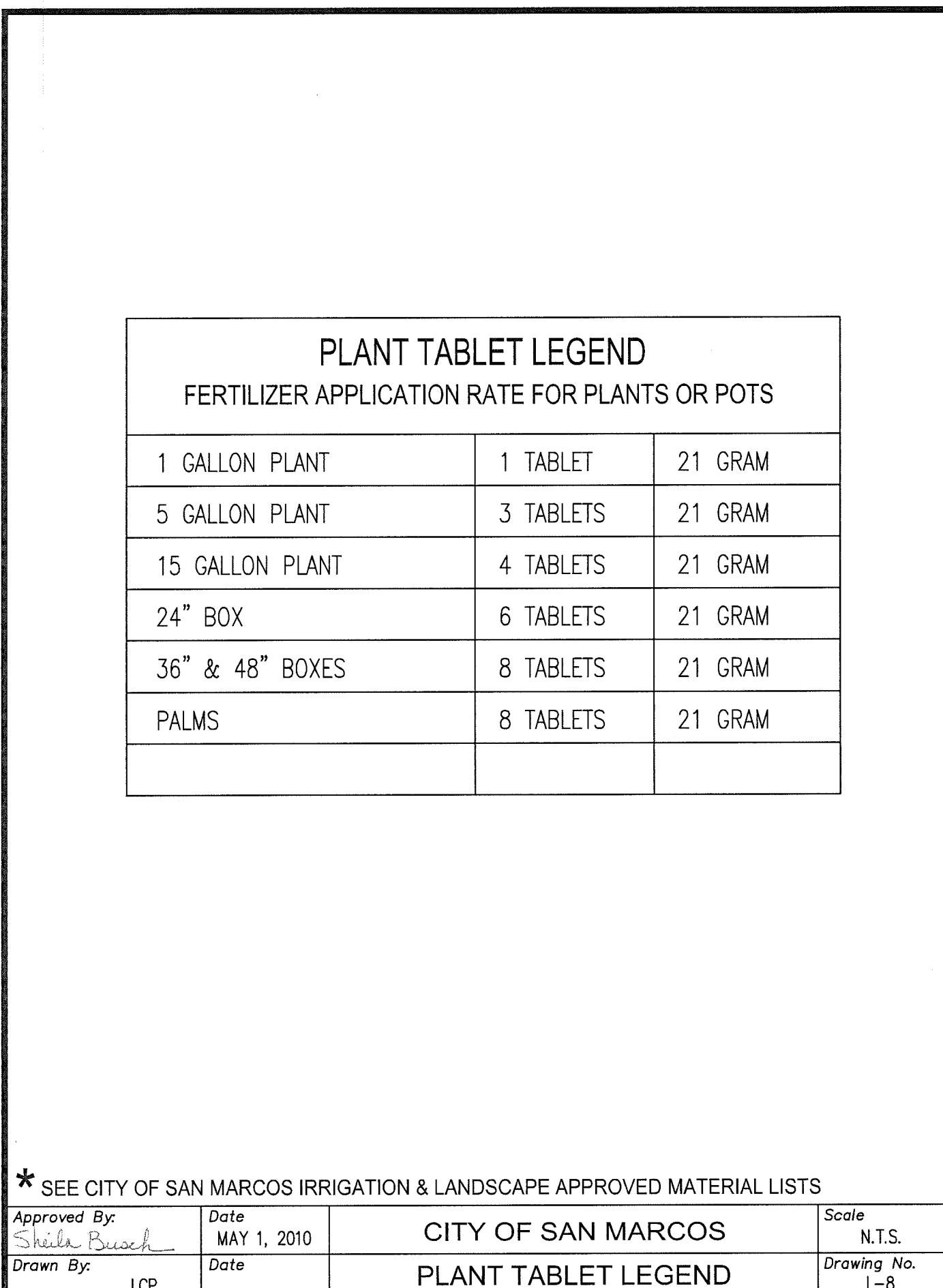
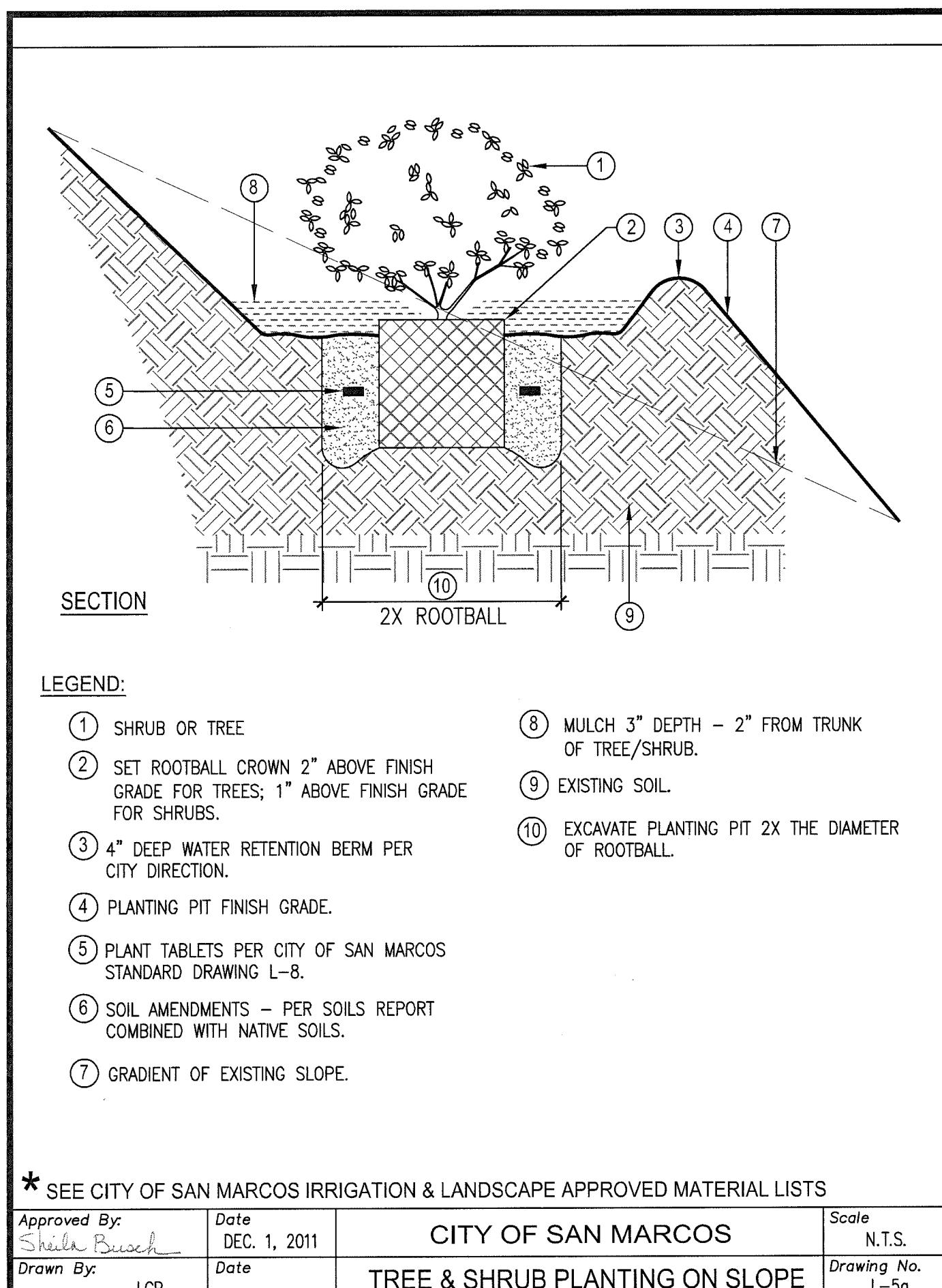
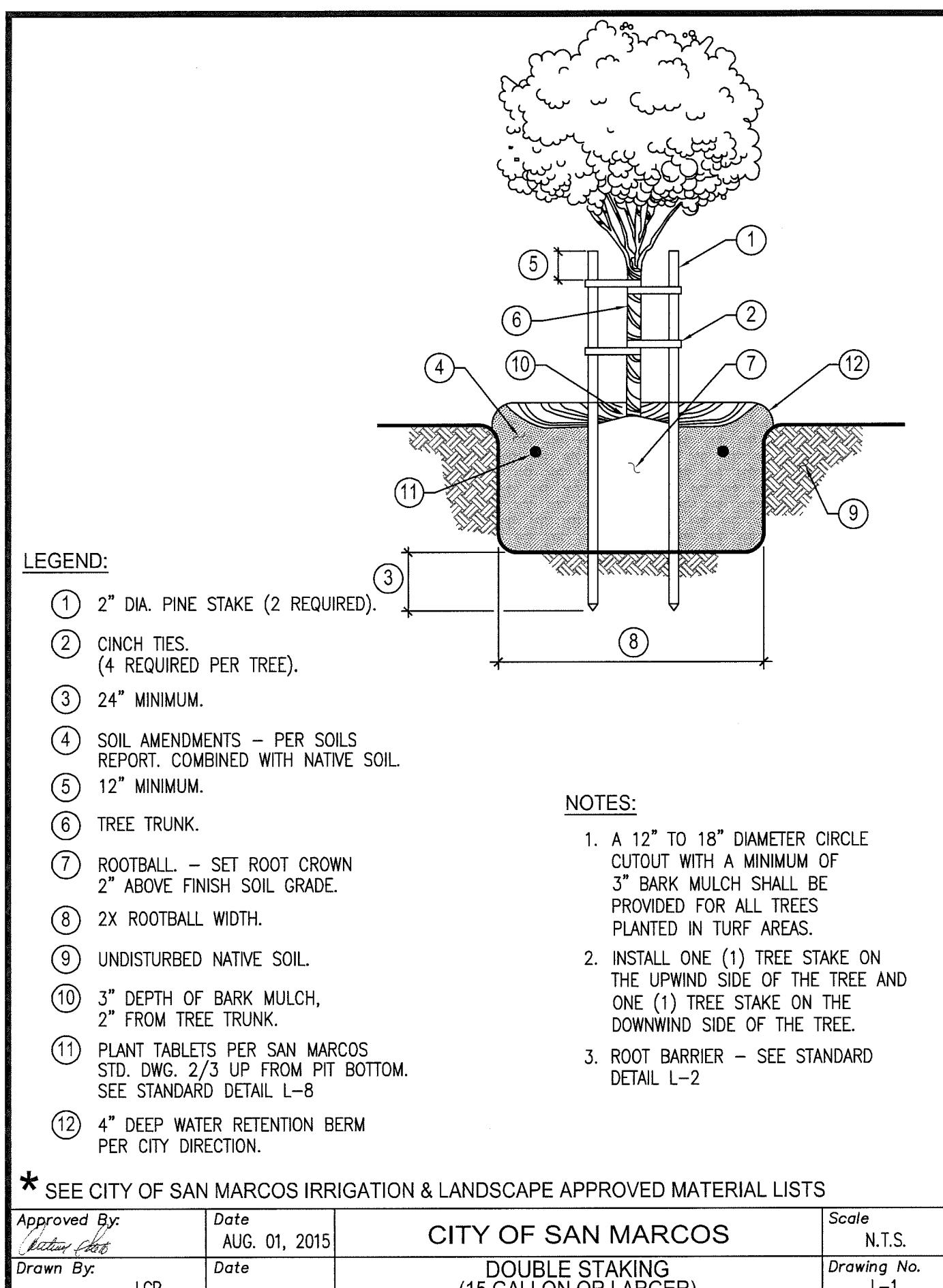
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## STANDARD PLANTING NOTES:

- THE WORK SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE DEVELOPER'S CITY APPROVED PLANS, IRRIGATION AND LANDSCAPE STANDARD DRAWINGS, APPROVED MATERIALS LIST, AS WELL AS THESE STANDARD PLANTING NOTES.
- SOIL SAMPLES FOR AMENDMENT TESTING SHALL BE TAKEN AFTER COMPLETION OF GRADING AND PRIOR TO WEED CONTROL AND SOIL PREPARATION AT A MINIMUM OF THREE LOCATIONS APPROVED BY THE PUBLIC WORKS DEPARTMENT. TESTS SHALL BE PERFORMED BY AN APPROVED LABORATORY. TESTS PERFORMED SHALL INCLUDE, BUT ARE NOT LIMITED TO: ORGANIC MATTER CONTENT, N/P/K, PH, ELECTRICAL CONDUCTIVITY, AND PERCENT SILT, SAND, AND CLAY. TEST RESULTS AND APPLICATION RECOMMENDATIONS SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT PRIOR TO APPLICATION OF AMENDMENTS. AMENDMENTS SHALL BE APPLIED PURSUANT TO THE LABORATORY AND MANUFACTURERS RECOMMENDATIONS.
- CONTROL WEEDS BY WATERING FOR THREE WEEKS TO ADEQUATELY GERMINATE THE SEEDBED AND THEN APPLY A POST-EMERGENT HERBICIDE BY A LICENSED APPLICATOR AND WAIT AS DIRECTED BY THE MANUFACTURER BEFORE PLANTING.
- PERCOLATION TESTS SHALL BE PERFORMED ON ALL TREE PLANTING PITS. PITS SHALL BE FILLED WITH 18 INCHES OF WATER AND ALLOWED TO DRAIN COMPLETELY. PITS SHALL THEN BE FILLED WITH 12 INCHES OF WATER AND ALLOWED TO DRAIN. THE SECOND FILL MUST DRAIN AT A MINIMUM RATE OF ONE INCH PER HOUR, FOR A FOUR-HOUR DURATION.
- TREE WELL DRAIN SYSTEMS SHALL BE INSTALLED PURSUANT TO CITY OF SAN MARCOS STANDARD DRAWINGS WHEN PERCOLATION TESTS FAIL.
- THE DEVELOPER SHALL PROVIDE POSITIVE DRAINAGE IN ALL LANDSCAPE AREAS.
- THE DEVELOPER SHALL SCHEDULE INSPECTIONS 48 HOURS IN ADVANCE OF THE WORK BEING READY FOR INSPECTION. INSPECTIONS SHALL BE SCHEDULED BY CALLING (760) 752-7550 EXT. 3550. IF THE WORK IS NOT READY FOR INSPECTION ON THE SCHEDULED DATE AND TIME, THE DEVELOPER SHALL RESCHEDULE THE INSPECTION AS ABOVE. THE CITY MAY CHARGE THE DEVELOPER FOR RESCHEDULED INSPECTIONS AND WITHHOLD FURTHER INSPECTIONS UNTIL SUCH TIME AS THE DEVELOPER PAYS THE RE-INSPECTION FEE.
- PLANTING INSPECTIONS ARE REQUIRED FOR THE FOLLOWING: A. TREE PLANTING PIT PERCOLATION TESTS (BOTH FILLS). B. PLANT MATERIAL LAYOUT PRIOR TO PLANTING. C. PLANT MATERIAL QUALITY PRIOR TO PLANTING. D. AMENDMENT VERIFICATION (PRIOR TO APPLICATION). E. PLANT MATERIAL INSTALLATION. F. PRE-MAINTENANCE PERIOD IRRIGATION COVERAGE INSPECTION (PUNCH LIST DEVELOPED). G. PRE-MAINTENANCE PERIOD PLANT MATERIAL INSPECTION (PUNCH LIST DEVELOPED). H. PRE-MAINTENANCE PERIOD FINAL PUNCH LIST COMPLETION INSPECTION. I. END OF MAINTENANCE PERIOD INSPECTION (30 DAYS PRIOR TO THE SCHEDULED END OF THE MAINTENANCE PERIOD; PUNCH LIST DEVELOPED). J. FINAL MAINTENANCE PERIOD INSPECTION (END OF MAINTENANCE PERIOD PUNCH LIST WORK COMPLETED BY DEVELOPER).
- TREES SUPPLIED TO THE PROJECT SHALL MEET THE FOLLOWING MINIMUM STANDARDS: A. TREES SHALL HAVE A STRAIGHT TRUNK WITH A SYMMETRICAL CROWN. B. TREES SHALL HAVE A SUBSTANTIAL, SINGLE, CENTRAL LEADER. C. TREE BARK SHALL NOT BE DISCOLORED, SUNKEN, OR SWOLLEN AND SHALL BE FREE OF CUTS AND SCRAPES OR OTHER DAMAGE. D. TREES SHOWING GALLERIES, SUN SCALD, OR FROST DAMAGE WILL NOT BE ACCEPTED. E. THE CALIPER OF THE TREE SHALL BE IN PROPORTION TO THE ROOT BALL. F. TREES WITH GIRDLING ROOTS WRAPPING AROUND THE TRUNK OR OTHERWISE ROOT BOUND WILL NOT BE ACCEPTED. G. TREE TRUNKS MORE THAN 10 PERCENT OFF CENTER WILL NOT BE ACCEPTED. H. FRESHLY PRUNED TREES WILL NOT BE ACCEPTED.
- PRUNING SHALL ONLY BE PERFORMED AT THE DIRECTION OF THE LANDSCAPE INSPECTOR.
- PROJECTS WHICH REMAIN INACTIVE FOR ONE YEAR OR LONGER ARE SUBJECT TO ALL PLANTING STANDARDS CHANGES THAT HAVE BEEN ADOPTED BY THE CITY OF SAN MARCOS DURING THE PERIOD OF INACTIVITY.

## SAN ELIJIO HILLS PARK 'DOG PARK' PLANTING LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QUANTITY	MATURE SIZE	WUCOLS	ZONE 4	DETAILS
<b>TREES</b>									
	PISTACIA CHINENSIS	CHINESE PISTACHE	36" BOX	AS SHOWN	2	30'-60' H X 30'-60' W	M	L-1, L-5a	
	QUERCUS AGRIFOLIA	COAST LIVE OAK	36" BOX	AS SHOWN	1	20'-70' H X 20'-70' W	L	L-1, L-5a	



UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

VALLECITOS WATER DISTRICT	SAN MARCOS FIRE PROTECTION DISTRICT
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE	By: <i>JASON NAILON, FIRE MARSHAL</i> Date: <i>6/30/2024</i>
By: <i>JASON P. HUBBARD, P.E.</i> Date: <i>6/30/2024</i>	REQUIRED FIRE HYDRANT FLOW * (GPM)
R.C.E. NO. 60317 exp: <i>6/30/2024</i>	APPROVED FIRE HYDRANT FLOW * (GPM)
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED	APPROVED FIRE HYDRANT FLOW INCLUDES MITIGATION MEASURES
VALLECITOS WATER DISTRICT NOT RESPONSIBLE FOR MAINTENANCE, REPAIR, OR REPLACEMENT OF FIRE HYDRANTS UNLESS SPECIFIED IN SEPARATE AGREEMENT WITH THE JURISDICTIONAL FIRE AGENCY	1 GALLON PER MINUTE
VALLECITOS WATER DISTRICT	VWD AS-BUILT
PRESSURE ZONE: <i>HGL</i>	By: <i>NAME (ENGINEER OF WORK)</i> Date: <i>6/30/20XX</i>
PUMP ZONE: <i></i>	R.C.E. NO. <i></i> exp: <i>6/30/20XX</i>

CITY APPROVED CHANGES				
△ NO.	DESCRIPTION	AFFECTED SHEETS	AOW APP'D	APP'D BY
	JASON NAILON, FIRE MARSHAL			
	REQUIRED FIRE HYDRANT FLOW * (GPM)			
	APPROVED FIRE HYDRANT FLOW * (GPM)			
	APPROVED FIRE HYDRANT FLOW INCLUDES MITIGATION MEASURES			
	1 GALLON PER MINUTE			
	VALLECITOS WATER DISTRICT NOT RESPONSIBLE FOR MAINTENANCE, REPAIR, OR REPLACEMENT OF FIRE HYDRANTS UNLESS SPECIFIED IN SEPARATE AGREEMENT WITH THE JURISDICTIONAL FIRE AGENCY			

LANDSCAPE ARCHITECT OF WORK				
By:	License No.: _____	exp.: _____	Date: _____	
RECOMMENDED FOR APPROVAL				
By: <i>Andrew Proud, Landscape Inspection Supervisor</i>				
Date: _____				
APPROVED FOR CONSTRUCTION				
By: <i>Isaac Etchamendi, City Engineer</i>				
R.C.E.: _____	exp.: _____	Date: _____		

BENCH MARK				
Description: _____	Location: _____	Record From: _____	Elev.: _____	Datum: _____

CITY OF SAN MARCOS				
LANDSCAPE PLANS FOR: <b>SAN ELIJIO HILLS PARK - DOG PARK</b> PLANNING PROJECT NO. <b>SDPXX-XXXX</b> MF <b>XXXX</b>				
PLANTING LEGEND, NOTES, + DETAILS				



LANDSCAPE ARCHITECT OF WORK AS-BUILT CERTIFICATE	INSPECTED AND RECOMMENDED FOR ACCEPTANCE
AS THE LANDSCAPE ARCHITECT OF WORK, I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE IMPROVEMENTS SHOWN ON THIS SET OF CONSTRUCTION PLANS, SHEET XXXX THROUGH SHEET XXXX, HAVE BEEN INSTALLED AND CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THESE AS-BUILT PLANS, INCLUDING ALL APPROPRIATE STANDARDS AND ANY DISCRETIONARY APPROVAL(S) FOR THE PROJECT	
By: <i>Brett Allen, LLA</i> Date: <i>12/08/2025</i>	
ISAAC ETCHAMENDY 81294 9/30/2026	
BRETT ALLEN, LLA License No. 6595, EXP. 12/31/2025	

FOR APPROVAL

SECTION 329300  
LANDSCAPING

PART 1 - GENERAL

1.01 SUMMARY:

A. THE WORK INCLUDES ALL SERVICES, LABOR, MATERIALS, TRANSPORTATION AND EQUIPMENT NECESSARY TO PERFORM THE WORK INDICATED ON THE DRAWINGS AND AS SPECIFIED. THE CONDITIONS OF THE CONTRACT AND DIVISION 1 APPLY TO THIS SECTION AS FULLY AS IF REPEATED HEREIN.

1.02 RELATED REQUIREMENTS:

A. SECTION 320533 LANDSCAPE MAINTENANCE

1.03 SUBMITTALS:

A. SUBMIT CERTIFICATES OF COMPLIANCE AND INVOICES FOR SOIL AMENDMENTS, FERTILIZERS, AND PLANT MATERIALS, WITH QUANTITIES OF EACH.

B. TREE SAMPLES: DELIVER TO THE SITE, A MINIMUM OF ONE SAMPLE OF EACH TREE VARIETY AND SIZE INDICATED, 15 GALLONS IN SIZE AND LARGER, A MINIMUM OF 15 DAYS BEFORE PLANTING OPERATIONS. AT THE CONTRACTOR'S OPTION AND EXPENSE, HE MAY RETAIN THE SERVICES OF THE LANDSCAPE ARCHITECT TO REVIEW TREES 15 GALLON AND LARGER TAGGED AT THE NURSERY OR AT ITS PLACE OF GROWTH, OR AS OTHERWISE INDICATED.

C. SHRUB AND TREE SAMPLES: SUBMIT 1 SAMPLE OF EACH VARIETY AND SIZE OF PLANT MATERIALS AT THE SITE A MINIMUM OF 15 DAYS BEFORE PLANTING OPERATIONS. ACCEPTED SAMPLES SHALL REMAIN ON THE SITE AND SHALL BE MAINTAINED AS STANDARDS OF COMPARISON FOR PLANT MATERIALS TO BE FURNISHED. SAMPLES MAY BE INCORPORATED INTO THE WORK.

D. A SAMPLE OF THE SOIL AMENDMENTS AND PROPOSED MULCH MATERIAL(S), INCLUDING MANUFACTURER OR SUPPLIER CERTIFICATE OR INVOICE, SHALL BE DELIVERED TO THE LANDSCAPE ARCHITECT WITHIN THIRTY-FIVE (35) DAYS AFTER RECORDING OF THE CONTRACT.

1.04 GUARANTEES AND REPLACEMENTS:

A. TREES SHALL BE GUARANTEED TO LIVE IN A HEALTHY CONDITION FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE OF MAINTENANCE PERIOD OF PROJECT.

B. PLANTS FOUND TO BE DEAD OR NOT IN A VIGOROUS CONDITION WITHIN THE MAINTENANCE AND GUARANTEE PERIODS SHALL BE REPLACED WITHIN FOURTEEN (14) DAYS AT CONTRACTOR'S EXPENSE.

C. PLANTS USED FOR REPLACEMENT SHALL BE THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED, PLANTED AND FERTILIZED AS ORIGINALLY SPECIFIED. THE EXPENSE OF ALL REPAIR WORK ON EXISTING IMPROVEMENTS DAMAGED DURING REPLACEMENT SHALL BE BORNE BY THE CONTRACTOR.

1.05 QUALITY ASSURANCE:

A. REVIEWS HEREIN SPECIFIED SHALL BE MADE BY THE LANDSCAPE ARCHITECT OR LANDSCAPE INSPECTOR. THE CONTRACTOR SHALL REQUEST REVIEW IN WRITING A MINIMUM OF 48 HOURS IN ADVANCE, FOR THE FOLLOWING PARTS OF WORK:

1. PRE-JOB MEETING TO INTRODUCE LANDSCAPE ARCHITECT, LANDSCAPE INSPECTOR, CONTRACTOR, JOB PROJECT MANAGER AND JOB SUPERINTENDENT AND TO DISCUSS THE PARTICULAR REQUIREMENTS OF THE JOB.
2. INCORPORATION OF SOIL CONDITIONING AND FERTILIZING INTO THE SOIL. OBSERVATION SHALL BEGIN PRIOR TO AMENDMENTS BEING ROTOTILLED INTO THE SOIL. AMENDMENT MATERIALS SHALL BE DISTRIBUTED IN PILES AROUND THE SITE IN QUANTITIES CORRESPONDING TO THE SOILS ANALYSIS RECOMMENDATIONS "PER 1,000 SQ. FT.". INVOICES SHOWING MATERIALS AND QUANTITIES PURCHASED SHALL BE AVAILABLE FOR REVIEW.
3. UPON COMPLETION OF GRADING PRIOR TO PLANTING. REVIEW OF PLANT MATERIALS IS TO COINCIDE WITH THIS REVIEW.
4. WHEN TREES AND SHRUBS ARE SPOTTED IN PLACE FOR PLANTING, BUT BEFORE PLANTING HOLES ARE EXCAVATED.



DIAL TOLL FREE  
1-800-422-4133

AT LEAST TWO DAYS  
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

VALLECITO WATER DISTRICT  
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT  
DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS  
PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE

By: JASON P. HUBBARD, P.E.  
Date: 6/30/2024  
R.C.E. NO. 60317 exp: 6/30/2024  
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED

VALLECITO WATER DISTRICT  
PRESSURE ZONE: HOL  
PUMP ZONE:

SAN MARCOS FIRE PROTECTION DISTRICT  
By: JASON NAILON, FIRE MARSHAL  
Date:

By: JASON P. HUBBARD, P.E.  
Date: 6/30/2024  
R.C.E. NO. 60317 exp: 6/30/2024  
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED

VALLECITO WATER DISTRICT  
PRESSURE ZONE: HOL  
PUMP ZONE:

5. UPON COMPLETION OF FINISH GRADES AND PLANTING, APPLICATION OF PRE-EMERGENT HERBICIDE IS TO COINCIDE WITH THIS REVIEW.

6. WHEN PLANTING, AND ALL OTHER INDICATED AND SPECIFIED WORK, EXCEPT THE MAINTENANCE PERIOD, HAS BEEN COMPLETED, ACCEPTANCE, IN WRITING, SHALL ESTABLISH BEGINNING OF THE MAINTENANCE PERIOD.

7. FINAL REVIEW AT THE COMPLETION OF THE MAINTENANCE PERIOD. CONTINGENT ON ACCEPTANCE, THIS REVIEW SHALL ESTABLISH THE BEGINNING DATE FOR THE GUARANTEE PERIOD.

1.06 MAINTENANCE:

A. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ALL INVOLVED AREAS DURING THE PROGRESS OF THE WORK AND DURING THE MAINTENANCE PERIOD UNTIL THE FINAL ACCEPTANCE OF THE WORK.

B. THE MAINTENANCE PERIOD BEGINS ON THE FIRST DAY AFTER WRITTEN ACCEPTANCE OF PLANTING OPERATIONS IS RECEIVED FROM THE LANDSCAPE ARCHITECT, AND SHALL CONTINUE THEREAFTER FOR NO LESS THAN NINETY (90) CONTINUOUS CALENDAR DAYS.

C. THE CONTRACT COMPLETION DATE OF THE CONTRACT MAINTENANCE PERIOD WILL BE EXTENDED, WHEN IN THE OPINION OF THE LANDSCAPE ARCHITECT, IMPROPER MAINTENANCE OR POSSIBLE POOR OR UNHEALTHY CONDITION OF PLANTED MATERIAL OR POORLY ESTABLISHED NON-COVERING TURF AREAS ARE EVIDENT AT THE TERMINATION OF THE SCHEDULED MAINTENANCE PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL MAINTENANCE OF THE WORK UNTIL WORK IS COMPLETED AND ACCEPTABLE.

D. SEE SECTION 320533 FOR SPECIFIC MAINTENANCE REQUIREMENTS.

1.07 GENERAL REQUIREMENTS:

A. THE TERM "PLANTING AREA" SHALL MEAN ALL AREAS TO BE PLANTED WITH TREES, SHRUBS, GROUNDCOVERS, SOD AND SEED.

B. ACTUAL PLANTING SHALL BE PERFORMED DURING THOSE PERIODS WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE IN ACCORDANCE WITH LOCALLY ACCEPTED HORTICULTURAL PRACTICE.

C. ALL ROCK AND OTHER GROWTH OR DEBRIS ACCUMULATED DURING THE DURATION OF THE PROJECT SHALL BE REMOVED FROM THE SITE.

D. PRIOR TO EXCAVATION FOR PLANTING OR PLACING OF PLANT MATERIALS, LOCATE ALL UNDERGROUND IMPROVEMENTS, UTILITY LINES, ETC. AND TAKE PROPER PRECAUTIONS TO AVOID DAMAGE. IN THE EVENT OF A CONFLICT BETWEEN SUCH LINES AND PLANT LOCATIONS, NOTIFY LANDSCAPE ARCHITECT AND RECEIVE DIRECTION PRIOR TO PROCEEDING. THE CONTRACTOR ASSUMES RESPONSIBILITY FOR MAKING REPAIRS FOR DAMAGES RESULTING FROM WORK AS HEREIN SPECIFIED.

E. GRADING AND SOIL PREPARATION WORK SHALL BE PERFORMED ONLY DURING THE PERIOD WHEN BENEFICIAL AND OPTIMUM RESULTS MAY BE OBTAINED. IF THE MOISTURE CONTENT OF THE SOIL SHOULD REACH SUCH A LEVEL THAT WORKING IT WOULD DESTROY SOIL STRUCTURE, SPREADING AND GRADING OPERATIONS SHALL BE SUSPENDED UNTIL THE MOISTURE CONTENT IS INCREASED OR REDUCED TO ACCEPTABLE LEVELS AND THE DESIRED RESULTS ARE LIKELY TO BE OBTAINED.

F. SCALED DIMENSIONS ARE APPROXIMATE. BEFORE PROCEEDING WITH WORK, CAREFULLY CHECK AND VERIFY DIMENSIONS AND IMMEDIATELY INFORM THE LANDSCAPE ARCHITECT OF DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS AND ACTUAL CONDITIONS.

G. QUANTITIES FOR PLANT MATERIALS ARE SHOWN FOR CONVENIENCE ONLY, AND NOT GUARANTEED. CHECK AND VERIFY COUNT AND SUPPLY SUFFICIENT NUMBER TO FULFILL INTENT OF DRAWINGS.

H. ADEQUATELY STAKE, BARRICADE, AND PROTECT IRRIGATION EQUIPMENT, MANHOLES, UTILITY LINES, AND OTHER EXISTING PROPERTY DURING ALL PHASES OF THE SOIL AMENDING AND GRADING OPERATIONS.

I. REJECTION AND SUBSTITUTION: PLANTS NOT CONFORMING TO THE REQUIREMENTS HEREIN SPECIFIED SHALL BE CONSIDERED DEFECTIVE, AND SUCH PLANTS, WHETHER IN PLACE OR NOT, SHALL BE MARKED AS REJECTED AND BE IMMEDIATELY REMOVED FROM THE SITE OF THE WORK AND REPLACED WITH ACCEPTABLE PLANT MATERIALS. THE PLANT MATERIALS SHALL MEET ALL APPLICABLE INSPECTIONS REQUIRED BY LAW. PLANTS SHALL BE OF THE SPECIES, VARIETY, SIZE, AGE, FLOWER COLOR AND CONDITION AS SPECIFIED HEREIN AND/OR AS INDICATED ON THE DRAWINGS. UNDER NO CONDITION WILL THERE BE ANY SUBSTITUTION OF PLANT SPECIE, VARIETY, OR REDUCED SIZES FOR THOSE LISTED ON THE ACCOMPANYING DRAWINGS, EXCEPT WITH THE EXPRESSED WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT.

J. ALL UTILITIES (WATER AND ELECTRICITY) USED DURING THE INSTALLATION AND MAINTENANCE OF THE LANDSCAPING AND IRRIGATION SYSTEMS FOR THIS PROJECT SHALL BE PAID FOR BY THE OWNER.

1.08 FINAL SOIL AMENDMENT QUANTITIES:

A. UPON COMPLETION OF ALL BACKFILL AND/OR ROUGH GRADING OF PLANTED AREAS, A MINIMUM OF SIX (6) REPRESENTATIVE SAMPLES OF EXISTING SOIL FOUND IN THE PLANTING AREAS SHALL BE TAKEN BY THE CONTRACTOR AND AT HIS/HER EXPENSE SENT TO AN INDEPENDENT SOIL TESTING LABORATORY FOR AN AGRICULTURAL SUITABILITY ANALYSIS AND RECOMMENDATIONS FOR QUANTITY AND APPLICATION RATE OF AMENDMENTS AND INCLUDE ANY CORRECTIVE MEASURES REQUIRED TO ADJUST PH OR SALT TO ACCEPTABLE LEVELS. THESE RECOMMENDATIONS SHALL THEN BE COMPARED WITH THOSE LISTED IN PARAGRAPHS 2.02 AND 3.01 AND THE CONTRACT MODIFIED ACCORDINGLY.

1.09 SOIL PREPARATION CONFORMANCE

A. AMENDMENT MATERIALS SHALL BE DISTRIBUTED IN PILES AROUND THE SITE IN QUANTITIES CORRESPONDING TO THE SOILS ANALYSIS "PER 1,000 SQ. FT." RECOMMENDATIONS. INVOICES SHOWING MATERIALS AND QUANTITIES PURCHASED SHALL BE AVAILABLE FOR REVIEW. THE LANDSCAPE ARCHITECT WILL COMPARE THE DISTRIBUTION PILES AND TOTAL QUANTITIES OF EACH MATERIAL FURNISHED AGAINST THE SOILS ANALYSIS RECOMMENDATIONS. IF THE MINIMUM RATES OF APPLICATION HAVE NOT BEEN MET, THE LANDSCAPE ARCHITECT WILL REQUIRE THE DISTRIBUTION OF ADDITIONAL QUANTITIES OF THESE MATERIALS TO FULFILL THE MINIMUM APPLICATION REQUIREMENTS SPECIFIED. AFTER APPROVAL BY THE LANDSCAPE ARCHITECT OF THE DISTRIBUTION AND QUANTITIES OF SOIL AMENDMENTS, THE CONTRACTOR WILL THEN COMMENCE WITH SOIL CONDITIONING OPERATIONS PER SECTION 3.01.

1.10 PLANT MATERIAL QUANTITY CONFORMANCE

A. AFTER INSTALLATION OF PLANT MATERIALS, AND COINCIDING WITH THE PRE-MAINTENANCE OBSERVATION, THE LANDSCAPE ARCHITECT, WITH THE HERETOFORE SPECIFIED SIGNED COPIES OF THE REQUIRED CERTIFICATES, TRIP SLIPS AND INVOICES FOR THE PLANT MATERIALS AND RELATED ITEMS, WILL INVENTORY SUCH MATERIAL, COMPARING THE TOTAL AREA AND/OR THE AMOUNTS SPECIFIED. IF THE MINIMUM AMOUNTS HAVE NOT BEEN FURNISHED, THE LANDSCAPE ARCHITECT MAY REQUIRE THE INSTALLATION OF ADDITIONAL MATERIALS TO FULFILL THE MINIMUM REQUIREMENTS SPECIFIED OR REQUIRE THAT THE CONTRACTOR PROVIDE CREDIT(S) TO THE OWNER.

PART 2 - PRODUCTS

2.01 SOIL AMENDMENT AND FERTILIZER:

A. PROVIDE SINGLY OR IN COMBINATION AS REQUIRED TO MEET SPECIFIED REQUIREMENTS FOR TOPSOIL. SOIL CONDITIONERS SHALL BE NONTOXIC TO PLANTS.

1. COMPOSED DERIVATIVES: GROUND BARK, NITROLIZED SAWDUST, HUMUS, OR OTHER WOOD GREEN WASTE MATERIAL FREE OF STONES, STICKS, AND SOIL STABILIZED WITH NITROGEN AND HAVING THE FOLLOWING PROPERTIES:

2. PARTICLE SIZE: MINIMUM PERCENT BY WEIGHT PASSING:

a. NO. 4 MESH SCREEN 95  
b. NO. 8 MESH SCREEN 80

3. NITROGEN CONTENT: MINIMUM PERCENT BASED ON DRY WEIGHT:

a. FIR SAWDUST 0.7  
b. FIR OR PINE BARK 1.0

B. GYPSUM SHALL BE A COMMERCIALY PROCESSED AND PACKAGED GYPSUM (CASO, 2H 0) WITH MINIMUM 80% GRADE CONTAINING 14% MINIMUM COMBINED SULFUR.

C. IRON SULPHATE: FERRIC OR FERROUS SULPHATE IN PELLETED OR GRANULAR FORM CONTAINING NOT LESS THAN 18 PERCENT METALLIC IRON. MATERIAL SHALL CONFORM TO THE AGRICULTURAL CODE OF THE STATE OF CALIFORNIA.

D. PRE-PLANT FERTILIZER FOR INCORPORATION WITH ROTOTILLING OR PLANT PIT BACKFILL MIX SHALL BE OF A UNIFORM 'BEADED' HOMOGENEOUS GRANULAR COMPOSITION SUITABLE FOR APPLICATION WITH APPROVED EQUIPMENT AND SHALL CONTAIN THE FOLLOWING MINIMUM AVAILABLE PERCENTAGES BY WEIGHT OF PLANT FOOD:

NITROGEN	5% MINIMUM
PHOSPHORIC ACID	3% MINIMUM
POTASH	1% MINIMUM
IRON	1%
MANGANESE	.05%
ZINC	.05%
HUMIC ACIDS (DERIVED FROM COMPOST)	15%
SOIL PENETRANT (ALKYL NAPHTHALENE SODIUM SULFONATE)	15%

E. POST-PLANTING FERTILIZER FOR MAINTENANCE PERIOD FERTILIZATION: ORGANIC BASE, LONG LASTING, NONBURNING, CONTROLLED SLOW RELEASE, FREE FLOWING, UNIFORM IN COMPOSITION, SUITABLE FOR APPLICATION WITH APPROVED EQUIPMENT, AND SHALL CONTAIN THE FOLLOWING MINIMUM AVAILABLE PERCENTAGES OF WEIGHT OF PLANT FOOD :

NITROGEN	12% MINIMUM
PHOSPHORIC ACID	8% MINIMUM
POTASH	8% MINIMUM
SULPHUR	7%
IRON	2%
MANGANESE	.05%
ZINC	.05%
HUMIC ACIDS (DERIVED FROM COMPOST)	5%

WARNING: SOME FERTILIZERS CONTAIN CHELATED IRON WHICH HAS CAUSED STAINING OF CONCRETE SURFACES IN OTHER PROJECTS. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL IRON STAINS FROM CONCRETE BY SANDBLASTING, OR AS DIRECTED BY ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER.

F. PLANTING TABLETS: TIGHTLY COMPRESSED CHIP TYPE COMMERCIAL GRADE PLANTING TABLETS OF VARYING WEIGHTED SIZES WITH THE FOLLOWING AVAILABLE PERCENTAGES BY WEIGHT OF PLANT FOOD:

NITROGEN	20% MINIMUM
PHOSPHORIC ACID	10% MINIMUM
POTASH	5% MINIMUM

G. POST-PLANTING FERTILIZER FOR PALMS: ORGANIC BASE, LONG LASTING, NONBURNING, CONTROLLED SLOW RELEASE, FREE FLOWING, UNIFORM IN COMPOSITION, SUITABLE FOR APPLICATION WITH APPROVED EQUIPMENT, AND SHALL CONTAIN THE FOLLOWING MINIMUM AVAILABLE PERCENTAGES OF WEIGHT OF PLANT FOOD :

NITROGEN	3% MINIMUM
PHOSPHORIC ACID	1% MINIMUM
POTASH	3% MINIMUM

A MICRO-NUTRIENT FOLIAR SPRAY FOR PALM FRONDS IS RECOMMENDED TO AVOID MICRO-NUTRIENT DEFICIENCIES.

2.02 PLANTING BACKFILL:

A. PLANTING BACKFILL SHALL BE A THOROUGHLY BLENDED MIXTURE OF TOPSOIL AMENDMENTS AT THE FOLLOWING MIXTURE:

SOIL CONDITIONER	1 PART
STOCK-PILE ON SITE SOIL	3 PARTS
IRON SULPHATE	2 LBS/PER CU. YD. OF MIX
GYPSUM	10 LBS/PER CU. YD. OF MIX
PRE-PLANT FERTILIZER	4 LBS/PER CU. YD. OF MIX

SOIL TO BE USED AS PLANTING MEDIUM FOR THE PROJECT SHALL BE FERTILE, WELL-DRAINED, OF UNIFORM QUALITY, FREE OF STONES OVER 1 INCH DIAMETER, STICKS, OILS, CHEMICALS, PLASTER, CONCRETE AND OTHER DELETERIOUS MATERIALS. ON-SITE SOIL MAY BE STOCKPILED FOR RE-USE PROVIDED IT MEETS ALL REQUIREMENTS.

2.03 PLANT MATERIALS:

A. NOMENCLATURE: THE SCIENTIFIC AND COMMON NAMES OF PLANTS HEREIN SPECIFIED CONFORM WITH THE APPROVED NAMES GIVEN IN "SUNSET WESTERN GARDEN BOOK", PUBLISHED BY LANE PUBLISHING COMPANY, MENLO PARK, CALIFORNIA, LATEST EDITION. SEE LIST OF PLANT MATERIAL ON DRAWINGS.

B. QUALITY AND SIZE OF ALL PLANTS SHALL BE NO. 1, OF PINTO TAG STOCK. THEY SHALL BE VIGOROUS, OF NORMAL GROWTH, FREE FROM DISEASE, INSECTS, INSECT EGGS, AND/OR EXCEED THE MEASUREMENTS SPECIFIED OR THE AMERICAN STANDARDS FOR NURSERY STOCK. PINTO TAGS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT.

C. CONTAINER STOCK (1 GAL., 5 GAL., AND 15 GAL.) SHALL HAVE GROWN IN CONTAINERS FOR AT LEAST SIX MONTHS, BUT NOT OVER TWO YEARS. NO CONTAINER PLANTS THAT HAVE CRACKED OR BROKEN BALLS OF EARTH, WHEN TAKEN FROM THE CONTAINER, SHALL BE PLANTED, EXCEPT UPON SPECIAL APPROVAL. NO TREES WITH DAMAGED ROOTS OR BROKEN BALLS SHALL BE PLANTED.



D. PRUNING SHALL NOT BE DONE, PRIOR TO DELIVERY, EXCEPT BY WRITTEN APPROVAL.

E. OBSERVATION OF PLANT MATERIALS, REQUIRED BY COUNTY AUTHORITIES, SHALL BE A RESPONSIBILITY OF THE CONTRACTOR, AND WHERE NECESSARY, THE CONTRACTOR SHALL HAVE SECURED PERMITS OR CERTIFICATES PRIOR TO DELIVERY OF PLANTS TO SITE.

F. PLANTS SHALL BE SUBJECT TO OBSERVATION AND APPROVAL OR REJECTION, AT THE PROJECT SITE AT ANY TIME BEFORE OR DURING PROGRESS OF WORK, FOR SIZE, VARIETY, CONDITION, LATENT DEFECTS AND INJURIES. REJECTED PLANTS SHALL BE REMOVED FROM THE PROJECT SITE IMMEDIATELY.

G. SUBSTITUTIONS WILL NOT BE PERMITTED EXCEPT THAT IF PROOF IS SUBMITTED THAT ANY PLANT SPECIFIED IS NOT OBTAINABLE, A PROPOSAL WILL BE CONSIDERED FOR USE OF THE NEAREST EQUIVALENT SIZE, VARIETY AND COST.

H. QUANTITIES SHALL BE FURNISHED AS NEEDED TO COMPLETE WORK AS SHOWN ON DRAWINGS.

I. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO OBSERVE ROOT CONDITION OF ANY SPECIES, PARTICULARLY THOSE GROWN FROM SEED, AND IF FOUND DEFECTIVE, TO REJECT THE PLANTS REPRESENTED BY THE DEFECTIVE SAMPLE.

J. IDENTIFY PLANT SPECIES OR VARIETIES CORRECTLY ON LEGIBLE, WEATHER-PROOF LABELS ATTACHED SECURELY AT THE JOB SITE. THERE SHALL BE A MINIMUM OF ONE LABELED PLANT FOR EACH 5 PLANTS IN A LOT.

K. GROUNDCOVER PLANTS SHALL BE HEALTHY VIGOROUS ROOTED CUTTINGS GROWN IN FLATS UNTIL TRANSPLANTING.

2.04 HERBICIDE:

A. WEED CONTACT SPRAY, POST EMERGENT, SYSTEMIC PRODUCT WITH NO SOIL RESIDUAL ACTIVITY FORMULATED AS A WATER SOLUBLE LIQUID CONTAINING 50% GLYPHOSATE AND 14.5% SURFACTANT WITH SURFLAN ADDITIVE.

2.05 RODENT REPELLENT:

A. RODENT REPELLENT: REPELLENT X OR APPROVED EQUAL.

2.06 MULCHING MATERIAL:

A. MULCHING MATERIAL SHALL BE 3/8" - 1/2" DIA. SCREENED FIR BARK OR APPROVED EQUAL BY AGRI SERVICE OR APPROVED EQUAL, APPROVED IN WRITING, BY THE LANDSCAPE ARCHITECT.

2.07 STAKING MATERIALS FOR TREES (15 GALLON OR LARGER):

A. DOUBLE STAKING (24" DEPTH AND MIN. 12" FROM TRUNK) FOR TREES FROM UP TO 15 GALLON OR LARGER:

1. STAKES SHALL BE 2" PINE STAKES. INSTALLATION PER SAN MARCOS STD. DRAWING L-1.

B. CINCH TIE, 4 REQUIRED PER TREE.

2.08 TRIM GUARDS FOR TREES:

A. TRIM GUARDS SHALL BE MADE FROM QUALITY POLYETHYLENE WITH ULTRA VIOLET INHIBITORS AND RATCHETING LATCHING DEVICE.

B. TRIM GUARDS SHALL BE INSTALLED AT THE BASE OF ALL TREES PLANTED IN THE TURF AREAS.

PART 3 - EXECUTION

3.01 LEACHING, SOIL CONDITIONING, ROTOTILLING AND FERTILIZING:

E. DEEP WATER LEACHING:

1. AFTER COMPLETE INSTALLATION AND TESTING OF THE IRRIGATION SYSTEM, ALL AREAS SHALL BE DEEP WATER LEACHED AND COMPACTED AND SETTLED BY CONTINUOUS APPLICATION OF IRRIGATION WATER UNTIL THE SOIL HAS RECEIVED A MINIMUM OF 12" OF WATER.

2. AFTER LEACHING OPERATION, SOIL SAMPLES SHALL BE TAKEN BY CONTRACTOR PER LANDSCAPE ARCHITECT'S DIRECTION AND GIVEN TO THE OWNER'S SOIL LABORATORY FOR TESTING. SOIL TEST SHALL MEET THE FOLLOWING REQUIREMENTS:

ECE - MAXIMUM 3.0  
PH - MAXIMUM 7.50  
MINIMUM 6.00



UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

VALLECITO WATER DISTRICT	SAN MARCOS FIRE PROTECTION DISTRICT
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE	By: JASON NAILON, FIRE MARSHAL Date: _____
By: JASON P. HUBBARD, P.E. Date: _____	By: Andrew Proud, Landscape Inspection Supervisor Date: _____
DISTRICT ENGINEER R.C.E. NO. 60317 exp.: 6/30/2024	RECOMMENDED FOR APPROVAL
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED	APPROVED FOR CONSTRUCTION

VALLECITO WATER DISTRICT	VWD AS-BUILT
PRESSURE ZONE: _____ HGL	By: NAME (ENGINEER OF WORK) Date: _____
PUMP ZONE: _____	R.C.E. NO. _____ exp.: 6/30/20XX

3. DEEP WATER LEACHING SHALL BE DONE PRIOR TO THE APPLICATION OF THE COMMERCIAL FERTILIZER.

4. CARE SHALL BE TAKEN THAT THE RATE OF APPLICATION OF WATER DOES NOT CAUSE EROSION OR SLUFFING OF SOILS. DO NOT UNDERTAKE LEACHING OPERATIONS IN EXPANSIVE SOILS.

5. ALL DEPRESSIONS, VOIDS, EROSION SCARS AND SETTLED TRENCHES GENERATED BY THE DEEP WATERING SHALL BE FILLED WITH CONDITIONED TOPSOIL AND BROUGHT TO FINISH GRADE PRIOR TO DIGGING PLANTING PITS.

B. AFTER LEACHING OPERATIONS AND AFTER THE AREAS HAVE BEEN GRADED, FOLLOW THE SOIL PREPARATION CONFORMANCE PROCEDURES PER SECTION 1.09. AFTER APPROVAL BY THE LANDSCAPE ARCHITECT OF THE REQUIREMENTS IN SECTION 1.09, THE SOIL CONDITIONING AND AMENDMENT MATERIALS SHALL BE EVENLY SPREAD OVER ALL PLANTING AREAS AND SHALL BE THOROUGHLY SCARIFIED TO AN AVERAGE DEPTH OF SIX (6) INCHES BY ROTOTILLING A MINIMUM OF TWO (2) ALTERNATING PASSES:

THE FOLLOWING MATERIALS AND QUANTITIES ARE TO BE USED AS A BASIS FOR BIDDING, AND MAY BE MODIFIED BASED ON SOIL ANALYSIS RESULTS.

SOIL CONDITIONER:	4 CU. YD. PER 1,000 SQ. FT.
SOIL SULPHUR:	20 LBS/PER 1,000 SQ. FT.
IRON SULPHATE:	20 LBS/PER 1,000 SQ. FT.
GYPSUM:	100 LBS/PER 1,000 SQ. FT.
PRE-PLANT FERTILIZER:	20 LBS/PER 1,000 SQ. FT.

1. FERTILIZER SHALL BE INCORPORATED INTO THE TOP SIX (6) INCHES OF FINISH GRADE. FERTILIZER SHALL BE APPLIED AFTER LEACHING OPERATION.

2. THE THOROUGHNESS AND COMPLETENESS OF THE ROTOTILLING AND INCORPORATION OF THE SOIL CONDITIONERS/AMENDMENTS SHALL BE ACCEPTED BY THE LANDSCAPE ARCHITECT IN WRITING, PRIOR TO DIGGING PLANTING PITS. FOR SLOPES 2:1 AND STEEPER, OR AS PER THE DRAWINGS, OMIT SOIL CONDITIONER APPLICATION AND ROTOTILLING.

3.02 FINISH GRADING:

A. FINISH GRADES SHALL BE AS INDICATED ON LANDSCAPE AND CIVIL DRAWINGS. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR A DECISION SHOULD ANY DISCREPANCIES EXIST BETWEEN THE DRAWINGS AND SITE CONDITIONS.

B. FINISH GRADES SHALL BE MEASURED AS THE FINAL WATER COMPACTED AND SETTLED SURFACE GRADES AND SHALL BE WITHIN +0.1 FOOT OF THE SPOT ELEVATIONS AND GRADE LINES INDICATED. GRADES ADJACENT TO HARDCAPE SHALL BE WITHIN +/- .01 FEET OF THE GRADES INDICATED ON THE DRAWINGS.

C. MOLDING AND ROUNDING OF THE GRADES SHALL BE PROVIDED AT ALL CHANGES IN SLOPE.

D. ALL UNDULATIONS AND IRREGULARITIES IN THE PLANTING SURFACES RESULTING FROM TILLAGE, ROTOTILLING AND ALL OTHER OPERATIONS SHALL BE LEVELED AND FLOATED OUT BEFORE PLANTING OPERATIONS ARE INITIATED.

E. TAKE EVERY PRECAUTION TO PROTECT AND AVOID DAMAGE TO EROSION CONTROL MATERIALS, SPRINKLER HEADS, IRRIGATION LINES, AND OTHER UNDERGROUND UTILITIES DURING GRADING AND CONDITIONING OPERATIONS.

F. FINAL FINISH GRADES SHALL INSURE POSITIVE DRAINAGE OF THE SITE WITH ALL SURFACE DRAINAGE AWAY FROM BUILDINGS, WALLS, AND TOWARD ROADWAYS, DRAINS AND CATCH BASINS.

G. FINAL GRADES SHALL BE ACCEPTED BY THE LANDSCAPE ARCHITECT/OWNER'S REPRESENTATIVE IN WRITING ON COMPANY LETTERHEAD PRIOR TO DIGGING PLANTING PITS AND/OR BEFORE PLANTING OPERATIONS WILL BE ALLOWED TO BEGIN.

H. PLANTING SURFACES SHALL BE GRADED WITH NO LESS THAN 2 PERCENT SURFACE SLOPE FOR POSITIVE DRAINAGE.

3.03 PLANTING:

A. THE LAYOUT OF LOCATIONS FOR PLANTS AND OUTLINES OF GROUNDCOVER BEDS TO BE PLANTED SHALL BE ACCEPTED BY THE LANDSCAPE ARCHITECT IN WRITING PRIOR TO DIGGING PLANT PITS FOR PLANTING. ALL SUCH LOCATIONS SHALL BE CHECKED BY THE CONTRACTOR FOR POSSIBLE INTERFERENCE WITH EXISTING UNDERGROUND PIPING PRIOR TO EXCAVATION OF HOLES. IF UNDERGROUND CONSTRUCTION OR UTILITY LINES ARE ENCOUNTERED IN THE EXCAVATION OF PLANTING AREAS, OTHER LOCATIONS FOR THE PLANTING MAY BE SELECTED BY THE LANDSCAPE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER. DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

B. PLANTING TREES:

1. ALL EXCAVATED HOLES SHALL HAVE VERTICAL SIDES WITH ROUGHENED SURFACES AND SHALL BE OF THE MINIMUM SIZES INDICATED ON DRAWINGS. HOLES SHALL BE, IN ALL CASES, LARGE ENOUGH TO PERMIT HANDLING AND PLANTING WITHOUT INJURY OR BREAKAGE OF ROOT BALLS OR ROOTS.

2. EXCAVATION SHALL INCLUDE THE STRIPPING AND STACKING OF ALL ACCEPTABLE SOIL ENCOUNTERED WITHIN THE AREAS TO BE EXCAVATED FOR PLANT PITS AND PLANTING BEDS. PROTECT ALL AREAS THAT ARE TO BE TRUCKED OVER AND UPON WHICH SOIL IS TO BE TEMPORARILY STACKED PENDING ITS RE-USE FOR THE FILLING OF HOLES, PITS AND BEDS.

3.04 HERBICIDE APPLICATION:

A. HERBICIDE OR PESTICIDE APPLICATIONS SHALL BE PERFORMED ONLY BY PERSONNEL LICENSED FOR SUCH WORK BY THE STATE OF CALIFORNIA.

3.05 RODENT REPELLENT:

A. ONCE PLANTS HAVE BEEN PLANTED AND WATERED IN, APPLY RODENT REPELLENT FOR PLANTS INDICATED ON PLANT LEGENDS ON THE DRAWINGS AROUND THE ENTIRE PERIMETER OF THE PLANTING AREA AT APPLICATION RATES AND WITH METHODS AS SPECIFIED BY THE MANUFACTURER.

3.06 CLEAN-UP:

A. AS THE PROJECT PROGRESSES ON A DAILY BASIS, THE CONTRACTOR SHALL MAINTAIN ALL AREAS IN A NEAT MANNER AND REMOVE UNSIGHTLY DEBRIS AS NECESSARY, REMOVE ALL DEBRIS AND CONTAINERS USED IN ACCOMPLISHING WORK AND SWEEP AND CLEAN ALL SIDEWALKS, ASPHALT, AND CONCRETE AREAS ADJACENT TO PLANTINGS.

3.08 SITE OBSERVATION & WALK-THROUGHS FOR SUBSTANTIAL COMPLETION:

LANDSCAPE ARCHITECT OF WORK				
By: _____				
License No.: _____ exp.: _____				
Date: _____				
RECOMMENDED FOR APPROVAL				
By: Andrew Proud, Landscape Inspection Supervisor				
Date: _____				
APPROVED FOR CONSTRUCTION				
By: Isaac Etchamendy, City Engineer				
R.C.E.: _____ exp.: _____				
Date: _____				
BENCH MARK				
Description: _____				
Location: _____				
Record From: _____ Datum: _____				
Elev.: _____				

A. GENERAL OBSERVATION: THE LANDSCAPE ARCHITECT WILL VISIT THE CONSTRUCTION SITE AT INTERIM TIMES DURING THE CONSTRUCTION PROCESS TO ACCESS CONSTRUCTION PROGRESS REGARDING INSTALLATION OF LANDSCAPE MATERIAL TO BE IN COMPLIANCE WITH THE DRAWINGS, DETAILS, SPECIFICATIONS AND SITE CONDITIONS. THE LANDSCAPE ARCHITECT WILL PREPARE A SITE REPORT AFTER EACH VISIT NOTING PROGRESS OF INSTALLATION, VERBAL COMMUNICATION WITH THE CONTRACTOR AND IDENTIFYING ANY FIELD ADJUSTMENTS NECESSARY THAT REQUIRE MODIFICATIONS TO THE DESIGNED LANDSCAPE. A COPY OF THIS SITE REPORT WILL BE DELIVERED TO BOTH THE OWNER AND THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO IMMEDIATELY ADDRESS EACH ITEM ON THE SITE REPORT BEFORE PROCEEDING WITH FURTHER CONSTRUCTION.

B. WALK THROUGH FOR SUBSTANTIAL COMPLETION (PUNCH LIST #1):

1. BEFORE REQUESTING A WALK THROUGH FOR SUBSTANTIAL COMPLETION THE FOLLOWING REQUIREMENTS MUST BE ENTIRELY SATISFIED:

a. THE ENTIRE PLANTING AREA IS COMPLETELY INSTALLED, AND WHEN LETTERS OF ACCEPTANCE AS DESCRIBED ABOVE HAVE BEEN OBTAINED FROM THE LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE. IF THE CONTRACTOR FAILED TO NOTIFY THE LANDSCAPE ARCHITECT FOR ANY OF THE ABOVE ITEMS AS LISTED ABOVE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY DESIGN MODIFICATIONS DIRECTED BY THE LANDSCAPE ARCHITECT DURING THE WALK THROUGH FOR SUBSTANTIAL COMPLETION ANY OF THESE ISSUES AT NO ADDITIONAL COST TO THE OWNER.

b. ALL INVOICES, PINTO TAGS AND RECEIPTS HAVE BEEN DELIVERED TO THE LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE.

2. ONCE THE ABOVE REQUIREMENTS HAVE BEEN MET A WALK THROUGH FOR SUBSTANTIAL COMPLETION MAY BE REQUESTED. THE FOLLOWING PROCEDURES WILL BE USED DURING THE WALK THROUGH:

a. CONTRACTOR MUST HAVE (2) TWO PERSONNEL AVAILABLE WITH RADIO COMMUNICATION FOR THE ENTIRE LENGTH OF THE WALK THROUGH.

b. A VISUAL WALK THROUGH OF THE ENTIRE SITE WILL TAKE PLACE CONSISTING OF AN EXAMINATION OF PLANTING AREAS AS COMPARED TO THE DRAWINGS, AND INSTALLATION PROCEDURES AS SHOWN ON THE DETAILS AND SPECIFICATIONS. A PUNCH LIST WILL BE ESTABLISHED OF DEFICIENCIES IN THE CONSTRUCTION AND WORKMANSHIP OF THE LANDSCAPED AREA AS COMPARED TO THE CONSTRUCTION DRAWINGS, DETAILS, AND SPECIFICATIONS.

3. ONCE THE WALK THROUGH FOR SUBSTANTIAL COMPLETION HAS BEEN COMPLETED THE LANDSCAPE ARCHITECT WILL PROVIDE A COPY OF ALL PUNCH LIST ITEMS TO THE OWNER FOR REVIEW AND DISTRIBUTION TO THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, REPLACE, AND ADJUST ALL ITEMS ON THE PUNCH PRIOR TO REQUESTING A FINAL WALK THROUGH.

C. FINAL WALK THROUGH:

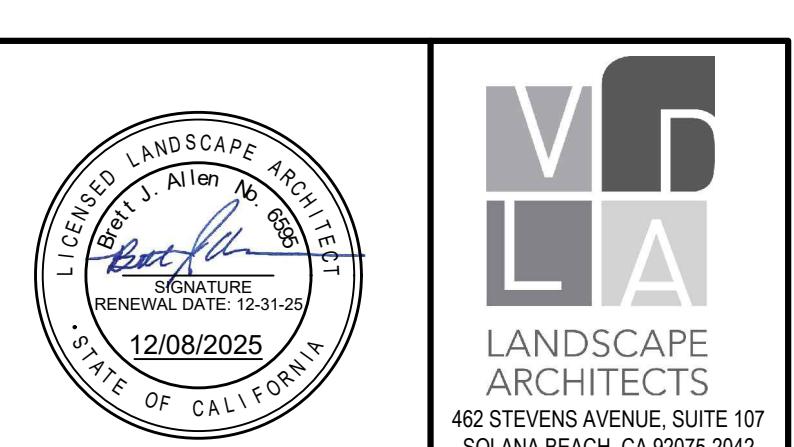
1. BEFORE COMMENCEMENT OF A FINAL WALK THROUGH IS REQUESTED, EACH ITEM ON THE WALK THROUGH FOR SUBSTANTIAL COMPLETION (PUNCH LIST #1) MUST BE THOROUGHLY SATISFIED, ADDRESSED, AND RESOLVED BY THE CONTRACTOR.

2. ONCE THE ABOVE REQUIREMENT HAS BEEN MET A FINAL WALK THROUGH MAY BE REQUESTED. THE FOLLOWING PROCEDURES WILL BE USED:

a. CONTRACTOR MUST HAVE (2) TWO PERSONNEL AVAILABLE WITH RADIO COMMUNICATION FOR THE ENTIRE LENGTH OF THE WALK THROUGH.

b. UNLESS NEW ISSUES ARISE BETWEEN WALK THROUGHS, ONLY THOSE ITEMS AS INDICATED ON THE WALK THROUGH FOR SUBSTANTIAL COMPLETION PUNCH LIST WILL BE ADDRESSED. THIS VISUAL WALK THROUGH WILL CONSIST OF WALKING THROUGH THE PUNCH LIST ITEMS CREATED AT THE TIME OF THE WALK THROUGH FOR SUBSTANTIAL COMPLETION, AND EXAMINING OUTSTANDING ITEMS. ANY REMAINING DEFICIENCIES IN THE CONSTRUCTION AND WORKMANSHIP OF THE LANDSCAPE AS COMPARED TO THE PUNCH LIST GENERATED AT THE TIME OF THE WALK THROUGH FOR SUBSTANTIAL COMPLETION, CONSTRUCTION DRAWINGS, DETAILS AND SPECIFICATIONS WILL BE NOTED.

3. ONCE THE FINAL WALK THROUGH IS COMPLETED AND ALL ITEMS CREATED ON THE FINAL PUNCH LIST HAVE BEEN ADDRESSED, THE MAINTENANCE PERIOD MAY BEGIN. ANY ADDITIONAL WALK THROUGHS REQUIRED DUE TO CONTRACTORS' INABILITY TO ADDRESS ALL ISSUES ON THE PUNCH LISTS DESCRIBED ABOVE WILL BE PROVIDED AT THE CONTRACTOR'S EXPENSE.



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LANDSCAPE ARCHITECT OF WORK AS-BUILT CERTIFICATE	
AS THE LANDSCAPE ARCHITECT OF WORK, I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE IMPROVEMENTS SHOWN ON THIS SET OF CONSTRUCTION PLANS, SHEET XXXX THROUGH SHEET XXXX, HAVE BEEN INSTALLED AND CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THESE AS-BUILT PLANS, INCLUDING ALL APPROPRIATE STANDARDS AND ANY DISCRETIONARY APPROVAL(S) FOR THE PROJECT	
By: Isaac Etchamendy Date: 12/08/2025	
Brett Allen, LLA License No. 6595, EXP. 12/31/2025	
APPROVED AS RECORD PLAN	
Public Works Inspector Date	
ISAAC ETCHAMENDY 81294 9/30/2026	
BRETT ALLEN, LLA License No. 6595, EXP. 12/31/2025	
CITY OF SAN MARCOS	
LANDSCAPE PLANS FOR: SAN ELIJAH HILLS PARK - DOG PARK PLANTING SPECIFICATIONS	
YYXX-XXXXX SDPX-XXXX MF XXXX	
PXX-XXXX	
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