

APPROVED

Oct 16 2025

BOARD OF RECREATION AND PARK COMMISSIONERS

BOARD REPORT

NO. 25-174

DATE October 16, 2025

C.D. 13

BOARD OF RECREATION AND PARK COMMISSIONERS

SUBJECT: LARISSA PARKWAY – RETAINING WALL RENOVATION (PRJ21685) PROJECT – APPROVAL OF FINAL PLANS – COMMITMENT OF SUPPLEMENTALL PARK FEES – CATEGORICALLY EXEMPT FROM THE PROVISIONS OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) PURSUANT TO ARTICLE 19, SECTION 15301(c) [REPAIRS OF EXISTING HIGHWAYS AND STREETS, SIDEWALKS, GUTTERS, BICYCLE AND PEDESTRIAN TRAILS, AND SIMILAR FACILITIES] AND SECTION 15301(d) [RESTORATION OR REHABILITATION OF DETERIORATED OR DAMAGED STRUCTURES, FACILITIES, OR MECHANICAL EQUIPMENT TO MEET CURRENT STANDARDS OF PUBLIC HEALTH AND SAFETY] OF CALIFORNIA CEQA GUIDELINES AND ARTICLE III, SECTION 1, CLASS 1(3) AND CLASS 1(4) OF CITY CEQA GUIDELINES

B. Aguirre _____ M. Rudnick _____
B. Jones _____ for* C. Santo Domingo DF
C. Stoneham _____ N. Williams _____


General Manager

Approved X

Disapproved _____

Withdrawn _____

RECOMMENDATIONS

1. Approve the final plans, substantially in the form on file in the Board of Recreation and Park Commissioners (Board) Office and attached hereto as Attachment No. 1, for the work at Larissa Parkway – Retaining Wall Renovation (PRJ21685) Project (Project), as described in the Summary of this Report;
2. Authorize Department of Recreation and Parks (RAP) staff to commit from the following fund and work order numbers listed below, a maximum of \$4,400,000.00 in Park Fees for this Project;

<u>FUNDING SOURCE</u>	<u>FUND/DEPT./ACCT. NO.</u>	<u>WORK ORDER NO.</u>
Park Fees	302/89/89718H	QP003254

3. Approve the authorization of change orders as authorized under Board Report No. 06-136, for the construction contracts for this Project in the budget contingency amounts for such contracts as stated in this Report;

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4. Determine that the Project is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to Article 19, Section 15301(c) [Repairs of existing highways and streets, sidewalks, gutters, bicycle and pedestrian trails, and similar facilities] and Section 15301(d) [Restoration or rehabilitation of deteriorated or damaged structures, facilities, or mechanical equipment to meet current standards of public health and safety] of California CEQA Guidelines as well as Article III, Section 1, Class 1(3) and Class 1(4) of City CEQA Guidelines, and request that Bureau of Engineering (BOE) staff to file a Notice of Exemption (NOE) with the Los Angeles County Clerk and the Governor's Office of Land Use and Climate Innovation; and,
5. Authorize RAP's Chief Accounting Employee to make technical corrections as necessary to carry out the intent of this Report.

SUMMARY

Larissa Parkway is located at 3305 West Larissa Drive in the Silver Lake community of the City. On July 14, 1922, Larissa Parkway was acquired for park purposes through a filing of subdivision maps. Due to the size of the park, and the facilities and plan features it provides, Larissa Parkway meets the standard for a Neighborhood Park, as defined in the City's Public Recreation Plan. The Park is currently unimproved and not open for public use, as the lot faces Sunset Boulevard with a grade difference of 42 feet from the top to the bottom of the lot. Its primary feature is a gunite concrete retaining wall use.

In April 2023, a site observation was conducted revealing an eroded void beneath the gunite wall. RAP then requested assistance from the Bureau of Engineering, Geotechnical Division to survey the gunite wall and design a demolition plan.

Previously as mentioned in Board Report Nos. 23-075 and 24-022, RAP and the Los Angeles Department of Water and Power (LADWP) were coordinating the removal of LADWP's pole carrying overhead utilities and AT&T telephone lines. However, after further discussion with LADWP, the pole and overhead utilities will remain and be protected in place due to the services it currently carries.

PROJECT SCOPE

Previously, the Board approved the following scope of work for the Project, as further described in Board Report Nos. 23-075 and 24-022:

- Clearing and grubbing of vegetation
- Demolition of upheaved concrete at existing wall
- Slope mitigation maintenance with erosion control throughout the winter season
- Design of a permanent solution
- Construction of new concrete wall and sealing of cracks and gaps

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At this time, the clearing and grubbing and demolition of upheaved concrete have been completed. The Project's final plans prepared by Leighton Consulting, Inc., under the supervision and direction of the Department of Public Works, Bureau of Engineering (BOE) are attached to this Report for the Board's approval. The Project's construction will be bid and awarded through the Department of Public Works and construction will be managed by the BOE Geotechnical Division.

RAP staff has determined that additional funding is required to complete the construction of the new concrete wall.

PROJECT FUNDING

Previously, the Board approved the commitment of \$1,300,000.00 in Park Fees to the Project (Report Nos. 24-022 and 23-075).

Upon approval of this Report, \$4,400,000.00 in Park Fees can be committed to the Project. The total amount of funding available for the Project is \$5,700,000.00, which is the total budget for the Project inclusive of the budget contingency. These Park Fees were collected within two miles of Larissa Parkway, which is the standard distance for the commitment of Park Fees for neighborhood recreational facilities pursuant to Los Angeles Municipal Code Section 12.33 E.3.

FUNDING SOURCE MATRIX

Source	Fund/Dept/Acct	Amount	Percentage
Park Fees	302/89/89716H	\$116,695.86	2%
Park Fees	302/89/89718H	\$5,583,304.14	98%
Total		\$5,700,000.00	100%

PROJECT CONSTRUCTION

RAP Staff has determined that sufficient funding has been identified for the Project. See below for the anticipated schedule for the proposed Project:

Phase	Duration
Pre-design	N/A
Design	N/A
Bid and Award	November 2025-December 2025
Construction	January 2026-February 2026

TREES AND SHADE

This proposed Project includes the removal of approximately two China flame trees and one Moreton Bay fig tree within the park, which are not "protected" trees under the Los Angeles Municipal Code. RAP will replace the removed trees with sixty new 15-gallon tree plantings, the type, size, and location to be determined by RAP's Forestry Division. The new trees are not being planted at this site to avoid root intrusion and upheaval of the new proposed wall.

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ENVIRONMENTAL IMPACT STATEMENT

The proposed Project consists of the repair and minor alteration of existing facilities, including streets and similar structures, that do not create additional automobile lanes, and the restoration or rehabilitation of deteriorated or damaged structures and facilities to meet current standards of public health and safety.

According to the parcel profile report retrieved on September 22, 2025 this area does not reside in a liquefaction, methane or coastal zone, so there is no reasonable possibility that the proposed Project may impact on an environmental resource of hazardous or critical concern or have a significant effect due to unusual circumstances. No other known projects would involve cumulatively significant impacts, and no future projects would result from the proposed Project. As of September 22, 2025, the State Department of Toxic Substances Control (DTSC) (Envirostor at www.envirostor.dtsc.ca.gov) and the State Water Resources Control Board (SWCB) (Geotracker at <https://geotracker.waterboards.ca.gov/>) have not listed the Project site or any contaminated sites near the Project area (within 1000 feet). According to the Caltrans Scenic Highway Map, there is no scenic highway located within or adjacent to the Project site. Furthermore, the proposed Project is not located in proximity of a known historical resources and will not cause a substantial adverse change in the significance of any historical resource.

Based on this information, staff recommends that the Board determines the Project is categorically exempt from the provisions of CEQA pursuant to Article 19, Section 15301(c) and Section 15301(d) of California CEQA Guidelines and Article III Section 1, Class 1(3) and Class 1(4) of City CEQA Guidelines. Staff will file a Notice of Exemption with the Los Angeles County Clerk and the Governor's Office of Land Use and Climate Innovation upon Board's approval.

FISCAL IMPACT STATEMENT

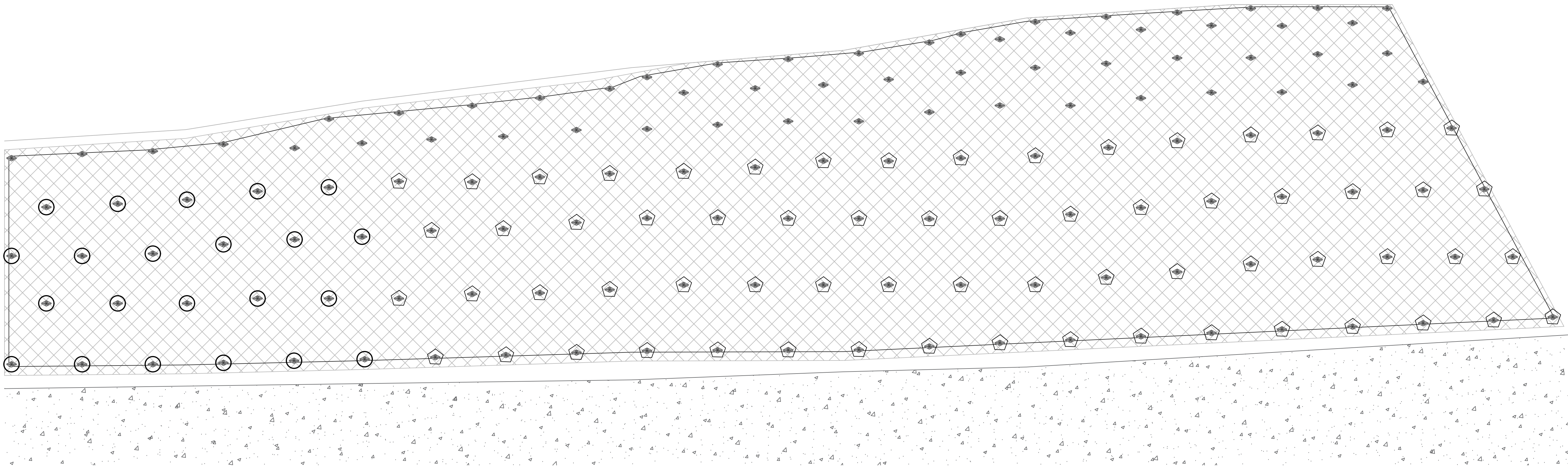
The approval of this commitment of Park Fees for the Project will have no fiscal impact on RAP's General Fund. The estimated costs for the design, development, and construction of the proposed park improvements are anticipated to be funded by Park Fees or funding sources other than RAP's General fund. The maintenance of the proposed park improvements can be performed by current staff with no overall impact to existing maintenance service at this facility.

This Report was prepared by Cammie Neo, Planning, Maintenance and Construction Branch, and Darryl Ford, Superintendent, Planning, Maintenance and Construction Branch.

LIST OF ATTACHMENTS

- 1) Attachment No. 1 – Larissa Parkway Final Plans
- 2) Attachment No. 2 – Notice of Exemption

**LARISSA DRIVE (3305) SLOPE MITIGATION PROJECT
LOS ANGELES (SILVER LAKE), CALIFORNIA 90026**



LEGAL DESCRIPTION

- APN: 5426007900, PIN: 142-5A203 57
- TRACT: TR 5012, BLOCK: 3, LOT: LARISSA PARK
- LOT/PARCEL AREA (CALCULATED): 9,469.3 (SQ FT)
- MAP REFERENCE: M B 56-48/49 (SHTS 1-2)
- THOMAS BROTHERS GRIP: PAGE 594 - GRID C6

APPLICANT

- CITY OF LOS ANGELES, DEPARTMENT OF PUBLIC WORKS, BUREAU OF ENGINEERING, GEOTECHNICAL ENGINEERING DIVISION
- DANIEL ORRIS, PROJECT MANAGER
- 1149 S. BROADWAY, STE. 120, LOS ANGELES, CA 90015

OWNER

- CITY OF LOS ANGELES, DEPARTMENT OF RECREATION AND PARKS
- DARRYL FORD
- 221 N. FIGUEROA, STE. 400, LOS ANGELES, CA 90012

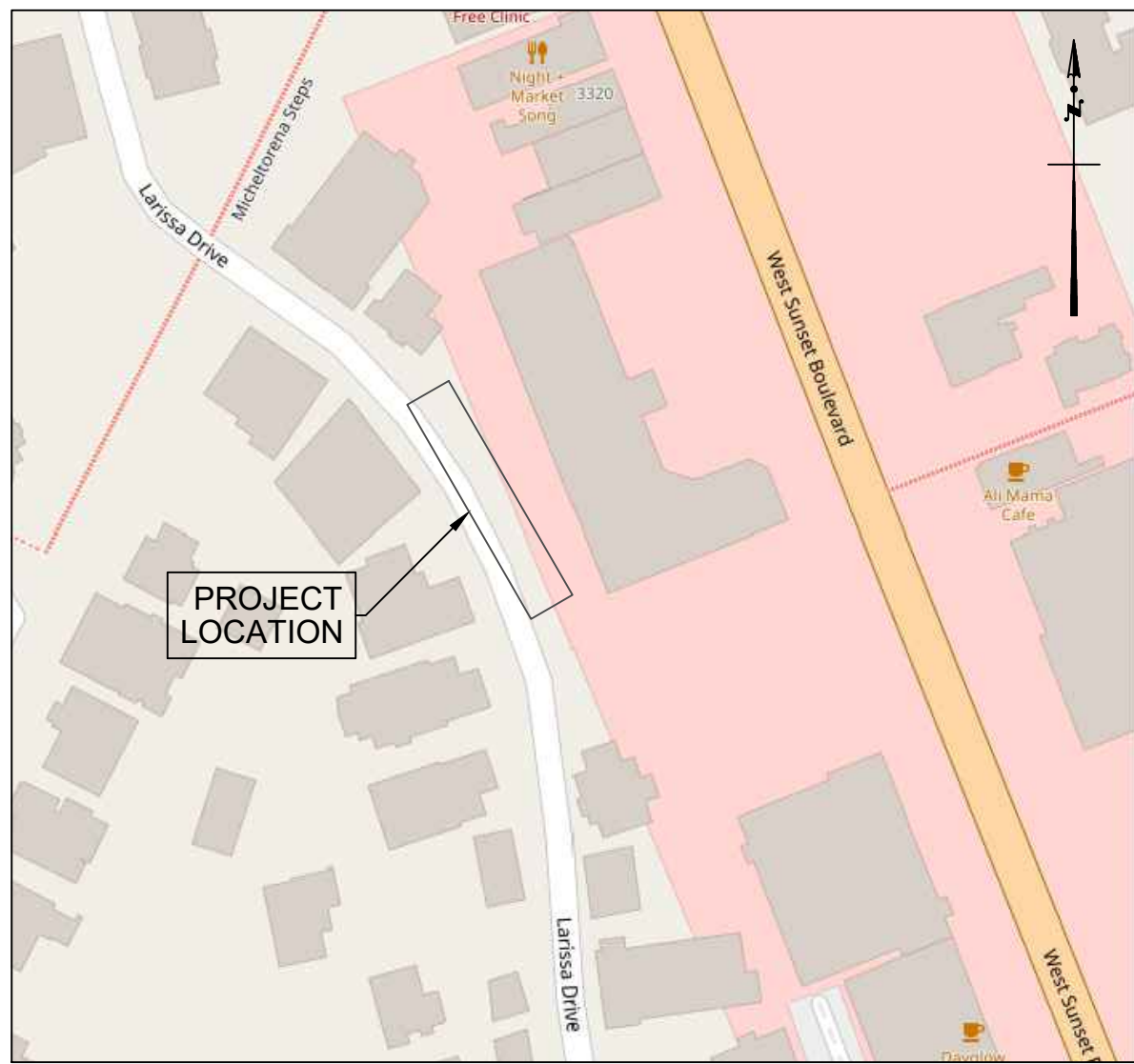
DESIGN ENGINEER

- KANE GEOTECH, INC.
- WILLIAM KANE
- 7400 SHORELINE DRIVE, SUITE 6, STOCKTON, CA 95219

THIS PLAN HAS BEEN REVIEWED BY THE BUREAU OF
ENGINEERING, GEOTECHNICAL ENGINEERING DIVISION
AND FOUND TO BE IN CONFORMANCE WITH OUR
RECOMMENDATIONS IN THE REPORT(S)

DATED: 3/6/2025 AND 4/18/2025

GE 2948	<i>Easton To</i>	9/2/2025
RCE / GE		DATE



VICINITY MAP

NOT TO SCALE

BUREAU OF ENGINEERING
ALFRED MATA, P.E.
INTERIM CITY ENGINEER

GEOTECHNICAL ENGINEERING DIVISION
HILLSIDE SLOPE STABILITY PROGRAM

PATRICK SCHMIDT, P.E., G.E.
DIVISION ENGINEER

PROJECT MANAGEMENT

KRISTEN LY, P.E.
GEOTECHNICAL ENGINEERING DIVISION
PROGRAM CONTROL ENGINEER

DANIEL ORRIS, C.E.G.
GEOTECHNICAL ENGINEERING DIVISION
PROJECT MANAGER

PROJECT DESIGN

WILLIAM KNIGHT, P.L.S.
SURVEY DIVISION
DIVISION ENGINEER

MARIA MARTIN
ENVIRONMENTAL MANAGEMENT GROUP
GROUP MANAGER

ARSEN VOSKERCHYAN, P.E.
PROJECT AWARD AND CONTROL DIVISION
DIVISION ENGINEER

DANIEL ORRIS, C.E.G.
GEOTECHNICAL ENGINEERING DIVISION
PROJECT ENGINEERING GEOLOGIST

EASTON FORCIER, G.E.
GEOTECHNICAL ENGINEERING DIVISION
GEOTECHNICAL ENGINEER

WILLIAM F. KANE, P.E.
KANE GEOTECH, INC.
CIVIL ENGINEER

ARMANDO DUPONT, P.L.S.
CALVADA SURVEYING, INC.
SURVEYOR

GEOTECHNICAL ENGINEER STAMPS



LADBS STAMPS

12345678910111213141516

INDEX TO SHEETS

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3	GI03	ABBREVIATIONS
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6	GI06	GRADING PRE-INSPECTION REPORT
7	VF01	SITE SURVEY
8	CS01	CIVIL NOTES
9	CS01	SITE PLAN
10	CI01	GEOLOGIC CROSS-SECTIONS A-A', B-B', C-C'
11	SG01	STRUCTURAL AND CONSTRUCTION NOTES
12	SD01	DEMOLITION PLAN
13	SB01	GENERAL PLAN AND ELEVATION VIEW
14	SB02	SLOPE STABILIZATION CROSS-SECTIONS
15	SB03	SOIL NAIL PROOF AND VERIFICATION TESTING DETAILS
16	SB04	SOIL NAIL PRODUCTION DETAILS
17	SB05	HIGH-STRENGTH STEEL WIRE MESH SYSTEM DETAILS
18	SB06	HIGH-STRENGTH STEEL WIRE MESH ROPE ASSEMBLY DETAILS
19	SB07	HIGH-STRENGTH STEEL WIRE MESH ASSEMBLY DETAILS

SHEET NAMING KEY

DISCIPLINE DESIGNATOR	SUBSET DESIGNATOR
G-GENERAL	I-INFORMATION C-CONTRACT
S-STRUCTURAL	G-GENERAL S-SITE D-DEMOLITION B-SUBSTRUCTURE
V-SURVEY	F-FIELD
C-CIVIL	G-GENERAL S-SITE
C-CIVIL	D-DEMOLITION B-GRADING U-UTILITIES P-PAVING I-IMPROVEMENTS
A-ARCHITECTURAL	
L-LANDSCAPE	

NOTICE TO CONTRACTORS

1. SPECIFICATIONS: ALL WORK SHALL CONFORM TO THE LATEST EDITION AND SUPPLEMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) ADOPTED BY THE BOARD OF PUBLIC WORKS OF THE CITY OF LOS ANGELES AS MODIFIED BY THE CORRESPONDING ISSUE OF THE LATEST ADDITIONS AND AMENDMENTS TO THE SSPWC - "BROWN BOOK" AND TO THE GENERAL CONDITIONS, AND THE GENERAL REQUIREMENTS.

2. THIS IMPROVEMENT CONSISTS OF WORK CALLED FOR THESE PLANS ONLY.

3. INSPECTION: ALL WORK AND MATERIALS ARE SUBJECT TO INSPECTION PURSUANT TO SECTION 2-11 OF THE STANDARD SPECIFICATIONS. CALL (213) 485-5080 BEFORE NOON OF THE WORKING DAY BEFORE THE DAY INSPECTION IS REQUIRED.

4. CONTINUOUS OBSERVATION BY A CERTIFIED ENGINEERING GEOLOGIST IS REQUIRED DURING THE REMOVAL OF SLOUGH, LOOSE MATERIAL, OR SCALING OF UNSTABLE MATERIAL ON THE SLOPE. THE CONTRACTOR SHALL CONTACT THE GEOTECHNICAL ENGINEERING DIVISION (GED) OFFICE AT (213) 847-0488 AT LEAST THREE WORKING DAYS IN ADVANCE OF REQUIRED OBSERVATIONS.

5. APPROVAL BY THE INSPECTOR DOES NOT MEAN APPROVAL FOR FAILURE TO COMPLY WITH THE PLANS OR SPECIFICATIONS. ANY DESIGN THAT FAILS TO BE CLEAR OR IS AMBIGUOUS, MUST BE REFERRED TO THE ENGINEER FOR INTERPRETATION OR CLARIFICATION.

6. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY, PRIOR TO COMMENCING ANY GRADING OR EXCAVATION. THE CONTRACTOR SHALL SUBMIT PROOF OF PERMIT TO THE INSPECTOR.

7. THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS FOR APPROVAL BY THE ENGINEER PRIOR TO COMMENCING WORK.

8. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THE SCALED DIMENSIONS. ALL DIMENSIONS SHALL BE AS DESIGNATED ON THE PLANS.

9. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE STARTING WORK. THE CONTRACTOR SHALL BRING TO THE ENGINEER'S ATTENTION ANY OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS PRIOR TO PROCEEDING WITH THE WORK. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

10. THE FOLLOWING SUBMITTALS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION:

A. PROJECT SCHEDULE WITH DETAILED CONSTRUCTION SEQUENCE

B. OVERALL CONSTRUCTION SEQUENCE

C. APPROVED LADOT TRAFFIC CONTROL PLANS

D. TEMPORARY SHORING OF EXISTING STRUCTURES (IF NEEDED BY CONTRACTOR)

E. SOIL NAIL GROUT MIX DESIGN(S)

F. SOIL NAIL GROUT ADMIXTURES AND / OR CURING COMPOUNDS (IF ANY)

G. STRUCTURAL STEEL

H. STRUCTURAL STEEL PROTECTIVE COATINGS OR PAINT SYSTEM SPECIFICATIONS

I. PROPOSED DEMOLITION PLAN

J. HIGH-STRENGTH STEEL WIRE MESH

K. EROSION CONTROL MAT

L. STEEL WIRE ROPE

M. SOIL NAIL THREADED BAR

N. THREADED BAR HEX NUTS AND WASHERS

O. STEEL MESH CONNECTION CLIPS AND WIRE ROPE CLIPS

P. SOIL NAIL SPIKE PLATE

Q. PROPOSED SOIL NAIL DRILLING METHODS AND EQUIPMENT

R. SOIL NAIL DETAIL AND ANCHOR SYSTEM RESEARCH REPORT APPROVAL LETTER BY THE DEPARTMENT OF BUILDING AND SAFETY (LADBS)

S. TEST NAIL DETAIL INCLUDING TESTING METHODS AND EQUIPMENT

T. IDENTIFICATION NUMBER(S) AND CERTIFIED CALIBRATION RECORDS FOR EACH TEST JACK, PRESSURE GAUGE AND LOAD CELL TO BE USED. JACK AND GAUGE SHALL BE CALIBRATED AS A UNIT.

U. SOIL NAIL GROUT MIX DESIGN (INCLUDE COMPRESSIVE STRENGTH RESULTS)

V. SOIL NAIL SPIKE PLATE TORQUE CALIBRATION(S)

W. VERIFICATION OF REQUIRED CONTRACTOR QUALIFICATIONS IN ACCORDANCE WITH THE PROJECT TECHNICAL SPECIFICATIONS

X. SOIL NAIL INSTALLATION, INCLUDING BUT NOT LIMITED TO NAIL SEQUENCING, BAR AND GROUT SPECIFICATIONS, EQUIPMENT USED ETC.

Y. AS REQUESTED BY THE ENGINEER, OR REQUIRED BY THE OTHER SUBMITTALS

Z. HYDRO-SEED MIX DESIGN

AA. OTHER SUBMITTALS, AS REQUESTED BY THE ENGINEER, OR REQUIRED BY THE CONTRACT OR ENGINEER

AB. THE SUBMITTALS LISTED ABOVE AS ITEMS D, E, F, AND G SHALL BE DESIGNED AND PREPARED BY A CALIFORNIA REGISTERED CIVIL OR STRUCTURAL ENGINEER. FORWARD EACH SUBMITTAL TO: VIA E2020 OR TO GEOTECHNICAL ENGINEERING DIVISION, 1149 S. BROADWAY, SUITE 120, LOS ANGELES, CALIFORNIA 90015, ATTENTION: DANIEL ORRIS, PROJECT MANAGER.

11. TRAFFIC LANE REQUIREMENTS: THE CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE AND OBTAIN AN APPROVED TRAFFIC CONTROL PLAN AND PERMIT BY LADOT. TRAFFIC CONTROL PLANS SHALL INCLUDE THE REQUIREMENTS DETAILED BELOW. APPROVED TRAFFIC CONTROL SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. ALL FEES ASSOCIATED WITH PREPARING TRAFFIC CONTROL

PLANS AND PERMITTING SHALL BE INCLUDED IN THE CONTRACTOR'S BID UNDER THE TRAFFIC CONTROL BID ITEM.

ADDITIONAL REQUIREMENTS:

11.1. THE CONTRACTOR SHALL MAINTAIN ROADWAY ACCESS TO NEIGHBORHOOD PRIVATE PROPERTIES DURING NORMAL WORKING HOURS FROM 7:00AM TO 4:00PM AND SHALL REMOVE ALL WORKING EQUIPMENT FROM ROADWAY ACCESS BETWEEN HOURS OF 4:00PM TO 7:00AM OF THE FOLLOWING MORNING.

11.2. AT LEAST ONE LANE OF TRAFFIC SHALL BE MAINTAINED EACH DIRECTION BY THE CONTRACTOR AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL AND DETOUR STRIPING PLANS TO CENTRAL DISTRICT, LADOT, TELEPHONE NO. (213) 482-7024, 201 N. FIGUEROA STREET, LOS ANGELES, CALIFORNIA 90012 FOR APPROVAL. PLANS NEED TO BE APPROVED FIVE WORKING DAYS IN ADVANCE OF CONSTRUCTION.

11.3. ALL TRAFFIC CONTROLS IN THE WORK AREA SHALL CONFORM TO THE LATEST EDITION OF "WORK AREA TRAFFIC CONTROL HANDBOOK" W.A.T.C.H. MANUAL. LOCAL ACCESS SHALL BE PROVIDED DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF TRANSPORTATION, DISTRICT OFFICE AT (213) 482-7024 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.

12. THE CONTRACTOR SHALL COORDINATE ANY TEMPORARY RELOCATION OF UTILITIES IN ORDER TO ACCOMMODATE THEIR CHOSEN MEANS AND METHODS OF CONSTRUCTION.

13. ADVANCE CONSTRUCTION NOTICE SIGNS SHALL BE FURNISHED AND INSTALLED AS PART OF THIS PROJECT IN ACCORDANCE WITH THE "BROWN BOOK" AND STANDARD PLAN S-791-1. CREDIT SIGN INFORMATION WILL BE PROVIDED TO THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ALL COSTS INCURRED IN FURNISHING, INSTALLING, AND REMOVING THE SIGNS SHALL BE INCLUDED IN OTHER ITEMS FOR WHICH BIDS ARE ENTERED. THE CONTRACTOR SHALL GIVE NOTICE TO ABUTTING PROPERTY OWNER(S) OR OCCUPANTS OF THE ANTICIPATED CONSTRUCTION START DATE AT LEAST TEN (10) DAYS BEFORE THE START OF CONSTRUCTION.

14. ALL EXISTING SUBSTRUCTURE LOCATIONS, ELEVATIONS, AND DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, AND DIMENSIONS BEFORE COMMENCING CONSTRUCTION. ALL SUBSTRUCTURES SHALL BE PROTECTED.

15. MATERIAL QUANTITIES SHOWN ON THE PLANS ARE ESTIMATED.

16. AFTER COMPLETION OF WORK, THE PROJECT AREA SHALL BE CLEARED OF DEBRIS AND RESTORED TO A CONDITION ACCEPTABLE TO THE ENGINEER.

17. ALL EXISTING UTILITIES SHALL BE LOCATED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS TO PROTECT AND MAINTAIN CONTINUOUS SERVICE OF OVERHEAD AND UNDERGROUND UTILITY LINES.

18. ALL DEMOLITION, GRADING, SHORING, AND HAULING SHALL COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA CONSTRUCTION SAFETY ORDERS.

19. THE CONTRACTOR SHALL CONTACT DANIEL ORRIS OF THE GEOTECHNICAL ENGINEERING DIVISION (GED) AT (213) 847-0488 AT LEAST THREE WORKING DAYS IN ADVANCE OF REQUIRED OBSERVATIONS OR INSPECTIONS BY THE GEOTECHNICAL ENGINEER.

20. THE PROJECT PLANS AND SPECIFICATIONS SHALL BE KEPT AT THE JOB SITE AND UPDATED WITH RECORD INFORMATION. THE SET SHALL BE AVAILABLE TO THE ENGINEER AT ANY TIME. THE CONTRACTOR SHALL NOT DEVIATE FROM THE PROJECT PLANS AND SPECIFICATIONS WITHOUT THE APPROVAL OF THE ENGINEER.

21. ALL EXISTING IMPROVEMENTS THAT INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR UNLESS OTHERWISE NOTED. ALL MATERIALS SUCH AS VEGETATION, TIMBER, ROCKS, CONCRETE, GUNITE, ASPHALT, AND EXCESS OIL, REMOVED BY THE CONTRACTOR SHALL BE DISPOSED BY THE CONTRACTOR.

22. THE CONTRACTOR SHALL PROTECT ALL PUBLIC AND PRIVATE PROPERTY INSOFAR AS IT MAY BE ENDANGERED BY OPERATIONS FOR THIS PROJECT. THE CONTRACTOR SHALL EXERCISE CARE THAT NO EXCAVATED MATERIAL OR DEBRIS RESULTING FROM THIS OPERATION SHALL RUN DOWN THE EXISTING SLOPE. ANY SUCH FALLEN MATERIAL OR DEBRIS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. EXISTING TREES AND SHRUBBERY WHEN NOT IN DIRECT CONFLICT WITH CONSTRUCTION ACTIVITIES SHALL BE PROTECTED. THE CONTRACTOR SHALL ALSO PROVIDE PROTECTION FOR THE PEDESTRIANS AND EXISTING ADJACENT STRUCTURES.

23. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL THE RIGHTS TO USE PROPERTIES OUTSIDE OF THE PUBLIC RIGHT-OF-WAY OR RECREATION AND PARKS OWNED PROPERTY WHICH THE CONTRACTOR DEEMS NECESSARY TO PERFORM ANY WORK UNDER THIS CONTRACT. ALL PRIVATE RIGHTS OF ENTRY SHALL BE OBTAINED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.

24. STANDARD PLANS USED FOR THIS PROJECT:

S-791-1..... ADVANCE CONSTRUCTION NOTICE SIGNS

S-444-0..... SIDEWALK

S-691-0..... CHAIN LINK FENCE AND GATES

25. PROJECT RECORD DOCUMENTS COMPRISED OF RECORD DRAWINGS (AS-BUILT FULL SIZE PLANS) THAT ARE DEVELOPED DURING CONSTRUCTION TO DELINEATE THE ACTUAL IN-PLACE CONSTRUCTED CONDITIONS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER. REQUIREMENTS FOR RECORD DRAWINGS ARE SPECIFIED IN SECTION 01783 OF THE GENERAL REQUIREMENTS.

26. UNLESS SHOWN AS "EXISTING", ALL WORK INDICATED SHALL BE PROVIDED AS A PART OF THIS CONTRACT.

27. THE CONTRACTOR SHALL NOTIFY HOMEOWNERS, TENANTS, AND PUBLIC EMERGENCY SERVICES (FIRE DEPARTMENT AND POLICE DEPARTMENT) AFFECTED BY THE WORK AT LEAST ONE WEEK PRIOR TO MOBILIZATION.

28. SLOPE AREAS OUTSIDE THE IMPROVEMENT AREA THAT BECOME DISTRIBUTED BY CONSTRUCTION ACTIVITIES SHALL BE RE-VEGETATED WITH HYDRO-SEED OF NATIVE VEGETATION. THE ACTUAL EXTENT OF COVERAGE SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

29. EXISTING IMPROVEMENTS REMAINING IN PLACE THAT ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, OR ARE RELOCATED TO FACILITATE THE CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER.

30. UNDERGROUND SERVICE ALERT (U.S.A.); WITHIN TEN DAYS BEFORE STARTING DRILLING OPERATIONS OR EXCAVATION WORK, THE CONTRACTOR SHALL CALL 1-800-422-4133 AND OBTAIN A U.S.A INQUIRY IDENTIFICATION NUMBER. AFTER OBTAINING THE NUMBER, DRILLING OR EXCAVATIONS SHALL NOT PROCEED FOR TWO WORKING DAYS TO ALLOW FOR NOTIFICATION OF UTILITY OWNERS. THE NUMBER SHALL ALSO BE REPORTED TO THE INSPECTOR WHEN REQUESTING INSPECTION. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES THAT HAVE BEEN MARKED BY THE RESPECTIVE OWNERS AND PROTECT THEM DURING CONSTRUCTION. THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS TO PROTECT AND MAINTAIN CONTINUOUS SERVICE OF UNDERGROUND UTILITY LINES.

31. EXISTING OVERHEAD POWER/TELECOMMUNICATION LINES TO BE PROTECTED IN PLACE DURING CONSTRUCTION. USE OF LOW-HEIGHT CRANES AND CONSTRUCTION EQUIPMENT MAY BE REQUIRED.

32. THE OWNER/BUILDER WILL ENSURE THAT ANY CONTRACTOR WHO PERFORMS ANY CONSTRUCTION ACTIVITY WHICH REQUIRES A PERMIT AT SITE, SHALL OBTAIN A PERMIT FROM CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE COMMENCEMENT OF THE ACTIVITY.

THIS PLAN HAS BEEN REVIEWED BY THE BUREAU OF ENGINEERING, GEOTECHNICAL ENGINEERING DIVISION AND FOUND TO BE IN CONFORMANCE WITH OUR RECOMMENDATIONS IN THE REPORT(S)

DATED: 3/6/2025 AND 4/18/2025

GE 2948
RCE / GE

Easton Fo
DATE

9/2/2025

GEOTECHNICAL ENGINEER STAMPS

REGISTERED PROFESSIONAL ENGINEER
EASTON RENE FORSTER
No. GE 2948
Exp. 9/30/2028
GEOTECHNICAL
STATE OF CALIFORNIA

Easton Fo

LADBS STAMPS

ENGINEERING
CITY OF LOS ANGELES

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. KANE
C 065714
Exp. 12-31-2028
CIVIL
STATE OF CALIFORNIA

VERTICAL CONTROL:
HORIZONTAL CONTROL:

DATE: BY:

NO. REVISIONS:

INDEX NO. M1209

INDEX TO SHEETS AND
NOTICE TO CONTRACTORS

LARISSA DRIVE (3305) SLOPE MITIGATION

3305 LARISSA DRIVE
LOS ANGELES, CALIFORNIA 90026

CITY ENGINEER
ALFRED MATA, P.E.

DESIGN GROUP
ENGINEER: WILLIAM F. KANE, P.E.
DESIGNED BY: WILLIAM F. KANE, P.E.
DRAWN BY: JOSEPH MCLEHANY
CHECKED BY: DANIEL ORRIS, C.E.G.
APPROVED BY: PATRICK SCHMIDT, P.E., G.E.

WORK ORDER NO.
E1909217

SHEET NAME
GI02

SHEET 2 OF 19 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES
(DESIGN STAGE ONLY)

THE PLAN WAS ELECTRONICALLY
SIGNED AND STAMPED

BUREAU OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS

CITY OF LOS ANGELES

12345678910111213141516

FILE PATH: \\2020KANESERVER\KANE GEOTECH FOLDER\KANE GEOTECH - PROJECTS\2024\KGT24-18 LARISSA DRIVE SLOPE MITIGATION\AUTOCAD DRAWINGS\SHEET 02 - GI02_INDEX TO SHEETS & NOTICE TO CONTRACTOR.DWG PLOT DATE: 8/28/2025 1:22 PM SAVED: 8/28/2025 1:22 PM SAVED BY:JOEYM

ABBREVIATIONS

ASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	DIAG	DIAGONAL OR DIAGRAM	ID	INSIDE DIAMETER	NTS	NOT TO SCALE	SQ	SQUARE
AB	ANCHOR BOLT	DIAPH	DIAPHRAGM	IN	INCH			SS	STAINLESS STEEL OR SANITARY SEWER
A.C.	ASPHALT CONCRETE	Ø	DIAMETER	INFO	INFORMATION	OC	ON CENTER	SSPWC	STANDARD SPECIFICATION FOR PUBLIC WORKS
ADDL	ADDITIONAL	DIM	DIMENSION	INT	INTERIOR	OD	OUTSIDE DIAMETER		CONSTRUCTION
ADJ	ADJACENT	DIST	DISTANCE	INT'L	INTERNATIONAL	OH	OVERHEAD	STA	STATION
AGG	AGGREGATE	DL	DEAD LOAD	INTER	INTERMEDIATE	OPP	OPPOSITE	STAG	STAGGERED
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	DN	DOWN	INV	INVERT	OPP/SIM	OPPOSITE SIDE SIMILAR	STL	STEEL
ALLOW	ALLOWABLE	DWG	DRAWING	IWRC	INDEPENDENT WIRE ROPE CORE	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	SYM	SYMMETRICAL
ALUM	ALUMINUM					OSL	OUTSTANDING LEG		
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	E	EXIST	JT	JOINT				
APPROX	APPROXIMATE	ECCL	ECCENTRIC LOAD	JUNC	JUNCTION				
APN	ASSESSOR'S PARCEL NUMBER	EF	EACH FACE	JS	JUNCTION STRUCTURE	PAR	PARALLEL	TBD	TO BE DETERMINED
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	EI	STIFFNESS FACTOR			PCC	PORTLAND CEMENT CONCRETE	t	THICKNESS
ARCH	ARCHITECT(URAL)	ELECT	ELECTRICAL	K	KIPS	PCCP	PRESTRESS CONCRETE CYLINDRICAL PIPE	T&B	TOP AND BOTTOM
@	AT	ENCL	ENCLOSURE OR ENCLOSED	KD	KILN DRIED	PCF	POUNDS PER CUBIC FOOT	TEMP	TEMPORARY
		ENG	ENGINEER(ING)	KSI	KIPS PER SQUARE INCH	%	PERCENT	T	TENSION OR TENSILE
		EQ	EQUAL OR EARTHQUAKE	KM	KILOMETER	PERM	PERIMETER	THD	THREADED
BET	BETWEEN	EQUIP	EQUIPMENT			PFB	PREFABRICATE(D)	THK	THICK OR THICKNESS
BLDG	BUILDING	ES	EACH SIDE	LABC	LOS ANGELES BUILDING CODE	PL	PROPERTY LINE	TL	TOTAL LOAD
BLK	BLOCK	EST	ESTIMATE(D)	LADBS	LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY	PLF	POUNDS PER LINEAR FOOT	TOC	TOP OF CONCRETE
BM	BURNS-MCDONNELL	EW	EACH WAY	LARR	LOS ANGELES RESEARCH REPORT	PJP	PARTIAL JOINT PENETRATION	TOF	TOP OF FOOTING
BOT	BOTTOM	EXIST	EXISTING	LB	POUND FORCE	PP	POWER POLE	TOG	TOP OF GRATING OR GROUT
BP	BASE PLATE	EXP	EXPANSION	LC	LOAD COMBINATION	PR	PAIR	TOL	TOP OF LEDGER
BS	BOTH SIDES	EXT	EXTENSION OR EXTERIOR	Ld	DEVELOPMENT LENGTH	PROJ	PROJECTION	TOS	TOP OF SLOPE
B&S	L.A. DEPARTMENT OF BUILDING & SAFETY			LF	LINEAR FEET OR FOOT	PS	PIPE STIFFNESS	TOW	TOP OF WALL
BSMT	BASEMENT	FEA	FINITE ELEMENT ANALYSIS	LG	LARGE	PSF	POUNDS PER SQUARE FOOT	TS	TUBE STEEL OR TRAFFIC SIGNAL OR TRANSITION
		FF	FINISH FLOOR	LLBB	LONG LEG BACK TO BACK	PSI	POUNDS PER SQUARE INCH		STRUCTURE
CAB	CRUSHED AGGREGATE BASE	FIG(S)	FIGURE(S)	LLH	LONG LEGS HORIZONTAL	PT	PROOF TEST	TYP	TYPICAL
CAL	CALIFORNIA	FIN	FINISH(ED)	LLV	LONG LEGS VERTICAL	PTL	PROOF TEST LOAD		
CE	CIVIL ENGINEER	FGR	FINISHED GRADE	LOC	LOCATION	PVC	POLYVINYL CHLORIDE	UBC	UNIFORM BUILDING CODE
CHKD	CHECKERED	FP	FULL PENETRATION	LT	LEFT			UNF	UNFINISHED
CIP	CAST-IN-PLACE	FS	FAR SIDE	LVL	LEVEL(ING)	QTY	QUANTITY	UNO	UNLESS NOTED OTHERWISE
CIPP	CURED IN PLACE PIPE	FT	FOOT OR FEET						
CJ	CONSTRUCTION OR CONTROL JOINT	FT-LB	FOOT POUNDS	m	SLOPE	RECT	RECTANGULAR	V	VERTICAL
CJP	COMPLETE JOINT PENETRATION	FHWA	FEDERAL HIGHWAY ADMINISTRATION	MAT	MATERIAL	REBAR	REINFORCEMENT BAR	VAR	VARIES
CL	CENTER LINE			MAX	MAXIMUM	REF PT	REFERENCE POINT	VB	VAPOR BARRIER OR VALVE BOX
CLR	CLEAR/CLEARANCE	GEC	GEOTECHNICAL ENGINEERING CIRCULAR	MB	MACHINE BOLT OR METAL BEAM	REINF	REINFORCEMENT	VIF	VERIFY IN FIELD
CLG	CEILING	GED	GEOTECHNICAL ENGINEERING DIVISION	MBGR	METAL BEAM GUARDRAIL	REQ'D	REQUIRED	VT	VERIFICATION TEST
CMB	CRUSHED MISCELLANEOUS BASE	GEN	GENERAL	MC	MOVEMENT CONNECTION OR MISCELLANEOUS CHANNEL	REV	REVISION	VTL	VERIFICATION TEST LOAD
COLA	CITY OF LOS ANGELES	GW	GROUND WATER	MECH	MECHANICAL	RPMP	REINFORCED POLYMER MORTAR PIPE		
CONC	CONCRETE	GWB	GYPSTUM WALL BOARD	MEZZ	MEZZANINE	RT	RIGHT	W	WEST OR WIDTH
CONF	CONFEDERATION			MFR	MANUFACTURE(R)(ED)			WDF	WOODEN FENCE
CONT	CONTINUOUS OR CONTINUATION	H	HORIZONTAL	MID	MIDDLE	S	SOUTH	WF	WIDE FLANGE
CONTR	CONTRACTOR	HDPE	HIGH DENSITY POLYETHYLENE	MIN	MINIMUM	SCH	SCHEDULE	W/	WITH
CTR	CENTER	HS	HEADED STUD	MSL	MEAN SEA LEVEL	SD	SLOPE DISTANCE	W/O	WITHOUT
CU	CUBIC	HSA	HEADED STUD ANCHOR			SDL	SUPERIMPOSED DEAD LOAD	WO	WORK ORDER
CY	CUBIC YARD	HSB	HIGH STRENGTH BOLT	N	NORTH	SE	STRUCTURAL ENGINEER OR SEMI-ELLIPTICAL	WP	WORK POINT
		HSS	HOLLOW STRUCTURE SEC	NA	NOT APPLICABLE	SF	SQUARE FEET	WT	WEIGHT
DEFL	DEFLECTION	HT	HEIGHT	NIC	NOT IN CONTRACT	SHT	SHEET	W/W	WALL TO WALL
DEG	DEGREE(S)	HVAC	HEATING / VENTILATING / AIR CONDITIONING	NO, (#)	NUMBER OR (POUNDS)	SIM	SIMILAR		
DEMO	DEMOLISH OR DEMOLITION			NOM	NOMINAL	SOG	SLAB ON GRADE	XSTG	EXTRA STRONG
DEPT	DEPARTMENT	ICBO	INT'L CONFERENCE OF BUILDING OFFICIALS	NPS	NOMINAL PIPE SIZE	SPA	SCREW PIN ANCHOR		
DET	DETAIL	IBC	INT'L BUILDING CODE	NS	NEAR SIDE	SPC (S)	SPACE(S)	YD	YARD

THIS PLAN HAS BEEN REVIEWED BY THE BUREAU OF
ENGINEERING, GEOTECHNICAL ENGINEERING DIVISION
AND FOUND TO BE IN CONFORMANCE WITH OUR
RECOMMENDATIONS IN THE REPORT(S)

DATED: 3/6/2025 AND 4/18/2025

GE 2948	<i>Easton To</i>	9/2/2025
RCE / GE		DATE

GEOTECHNICAL ENGINEER STAMPS

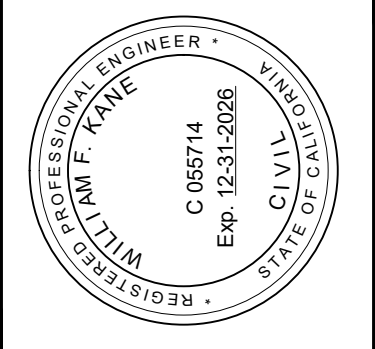


LADBS STAMPS



ENGINEERING
CITY OF LOS ANGELES

Logo for the Engineering City of Los Angeles. It features a stylized city skyline with three buildings in grey, teal, and green. Below the skyline is the text "CITY OF LOS ANGELES".



VERTICAL CONTROL:	
HORIZONTAL CONTROL:	
SHEET TITLE: ABBREVIATIONS	
PROJECT:	LARISSA DRIVE (3305) SLOPE MITIGATION
ADDRESS:	3305 LARISSA DRIVE LOS ANGELES, CALIFORNIA 90026

INDEX NO.	CIP NO. M1209	NO.	REVISIONS:	DATE:	BY:

ENGINEER:	WILLIAM F. KANE, P.E.	DESIGN GROUP	CITY ENGINEER
DESIGNED BY:	WILLIAM F. KANE, P.E.		
DRAWN BY:	JOSEPH MCELHANY		
CHECKED BY:	DANIEL ORRIS, C.E.G.		
APPROVED BY:	PATRICK SCHMIDT, P.E., G.E.		

WORK ORDER NO.
E1909217

SHEET NAME
G103
SHEET 3 OF 19 SHEETS

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REVISION DATES
(DESIGN STAGE ONLY)

Sheet Version 4.0

IDENTITY SYMBOLS

MAINTENANCE HOLES

- (M) MAINTENANCE HOLE
- (M) LARGE MAINTENANCE HOLE
- (D) STORM DRAIN MANHOLE
- (P) POWER MANHOLE
- (T) TELEPHONE MANHOLE
- (S) SEWER MANHOLE

VALVES & METER BOXES

- (X) GAS
- (W) WATER
- (N) NON-GAS, NON-WATER VALVE
- (M) WATER METER
- (G) GAS METER

PULL BOXES

- (P) PULL BOX
- (T) TRAFFIC SIGNAL
- (S) STREET LIGHT
- (E) ELECTRIC
- (TV) TELEVISION

LANDSCAPING

- (I) IRRIGATION CONTROL BOX
- (S) SPRINKLER
- (O) OAK TREE
- (T) TREE
- (SH) SHRUB
- (PT) PALM TREE

MISCELLANEOUS

- (B) BOREHOLE
- (G) GUARD POST/BOLLARD
- (F) FIRE HYDRANT
- (SP) STAND PIPE
- (C) CLEAN OUT
- (V) VENT
- (S) SIGN
- (P) POWER POLE
- (G) GUY WIRE
- (L) LIGHT STANDARD
- (LT) LIGHT AND TRAFFIC STANDARD
- (CP) CONTROL POINT
- (MP) MONITORING POINT
- (MS) MONITORING STATION
- (MW) MONITORING WELL
- (CB) CATCH BASIN
- (AR) AIR RELEASE AND VACUUM RELEASE VALVE PAD
- (X) SURVEY POINT
- (TB) THRUST BLOCK
- (UI) UTILITY IDENTIFIER
- (VI) VALVE IDENTIFIER
- (NMB) NEW METAL BEAM GUARDRAIL
- (RL) REMOVAL LIMITS
- (CL) CONSTRUCTION LIMIT

LINE SYMBOLS

- (---) WALL
- (---) TRAFFIC CONTROL STRIPING
- (+ + + +) RAILROAD
- (---) FLOW LINE / STORM DRAIN
- (---) PROPERTY LINE
- (SD SD SD) STORM DRAIN
- (S S S) SEWER
- (W W W) DWP WATER
- (G G G) GAS LINE
- (---) GRADE CHANGE
- (X X X) CHAIN LINK FENCE
- (---) WOODEN FENCE
- (---) WROUGHT IRON FENCE
- (---) EXISTING GROUND PROFILE
- (P P P) POWER LINE
- (---) CONTOUR LINE
- (---) CONTOUR INDEX LINE
- (---) CURB
- (---) CONCRETE GUTTER
- (---) SIDEWALK
- (---) DRIVEWAYS
- (///) EXIST UTILITIES OR OBJECT TO BE DEMOLISHED
- (---) EDGE OF PAVEMENT
- (---) TOP
- (---) TOE

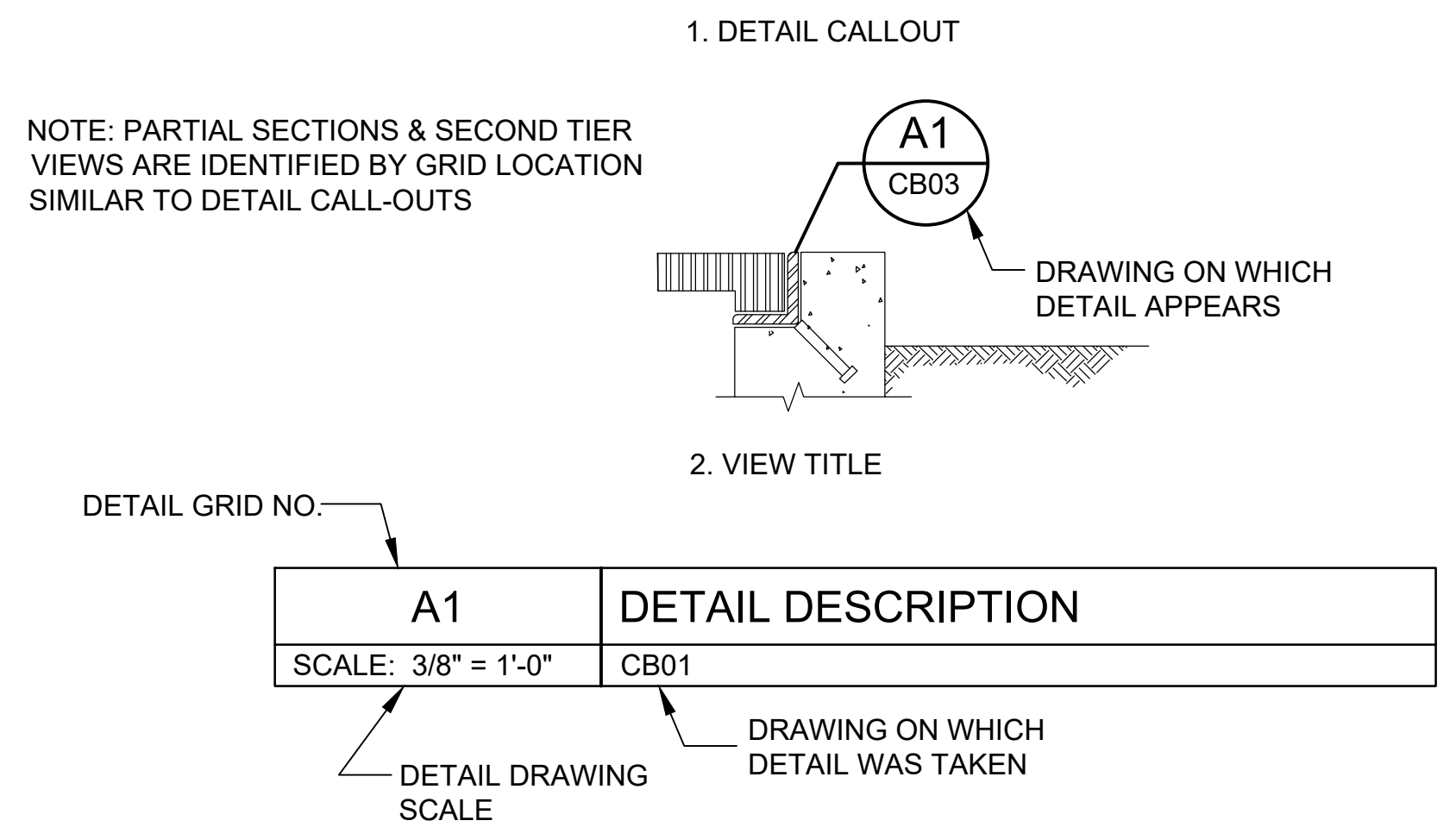
MATERIAL SYMBOLS

- (X X X X) EARTH (SECTION)
- (+ + + +) EARTH (PLAN)
- (---) COMPACTED EARTH (SURFACE/PLAN)
- (---) LANDSCAPING (PLAN)
- (+ + + +) COMPACTED BACKFILL (SECTION)
- (---) GRATING (PLAN)
- (---) AC PAVEMENT (PLAN/SECTION)
- (---) SAND (PLAN/SECTION)
- (---) CONCRETE (PLAN/SECTION)
- (---) CMB (SECTION)
- (---) ALUMINUM (SECTION)
- (---) STEEL (SECTION)

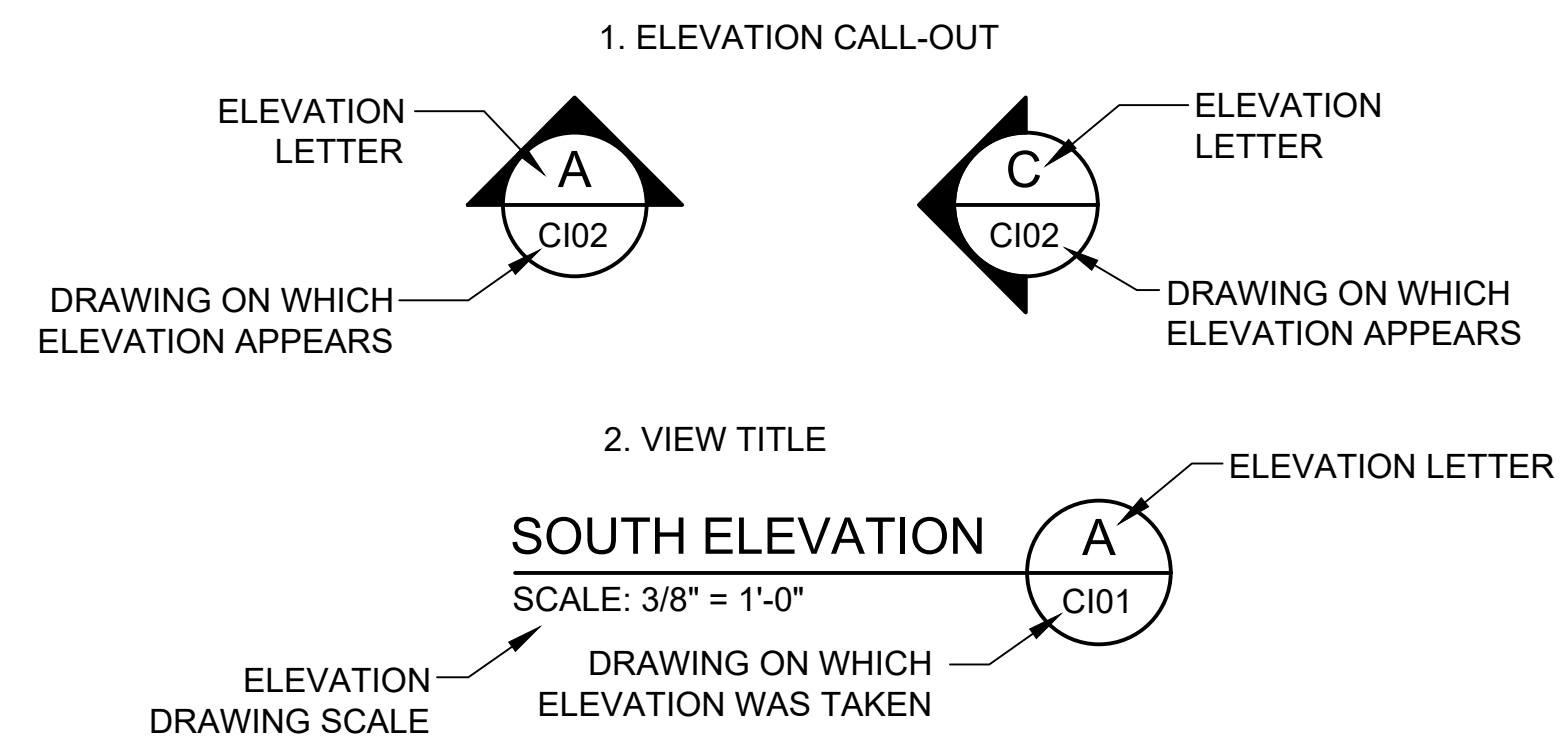
IDENTITY SYMBOLS

- (V) REVISION TAG
- (1) KEYNOTE
- (1) TIE-IN
- (A) GRID BUBBLE

DETAIL VIEW IDENTIFICATION



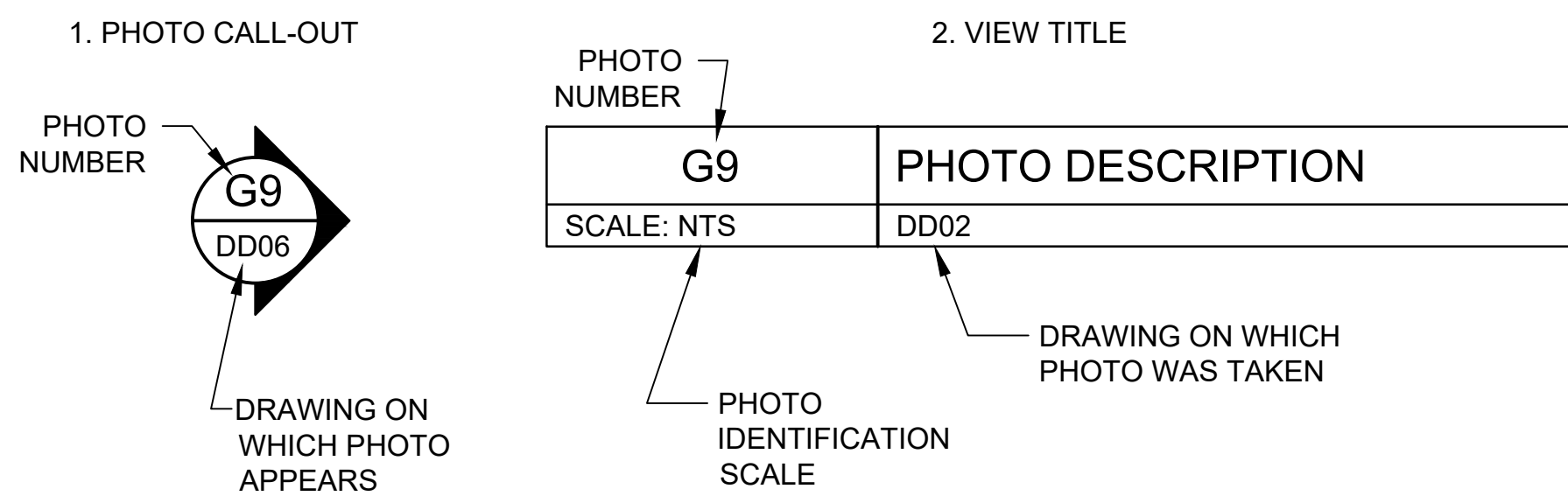
ELEVATION IDENTIFICATION



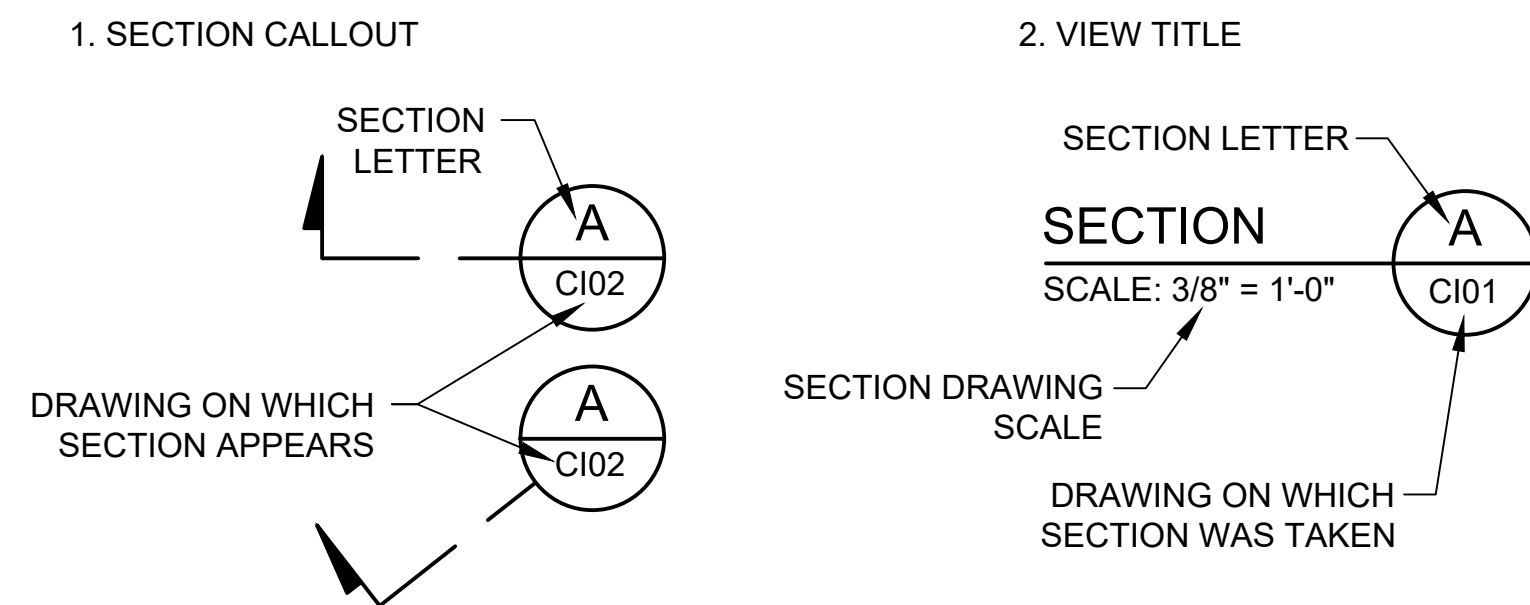
NORTH ARROW



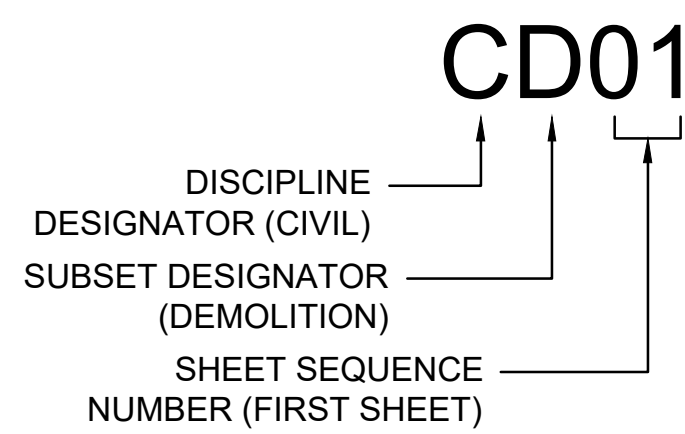
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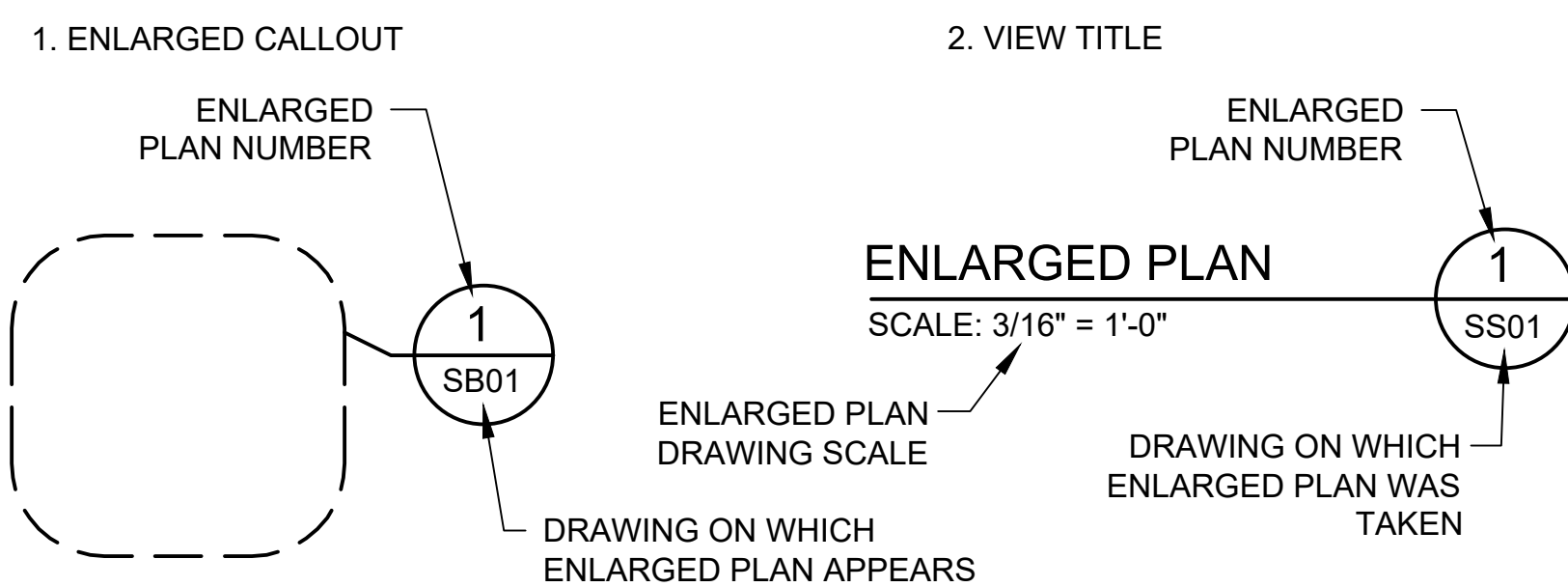
SECTION IDENTIFICATION



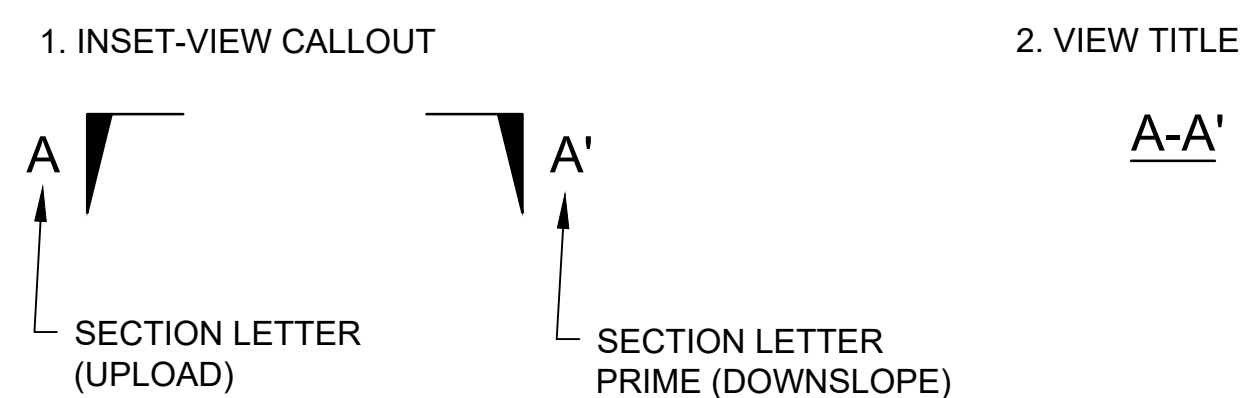
SHEET IDENTIFICATION



ENLARGED PLAN IDENTIFICATION



INSET-VIEW IDENTIFICATION

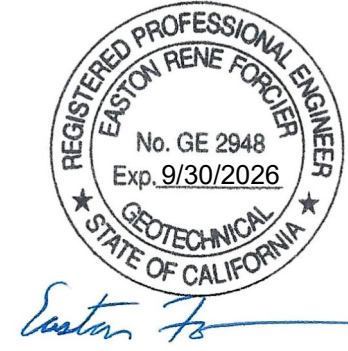


THIS PLAN HAS BEEN REVIEWED BY THE BUREAU OF ENGINEERING, GEOTECHNICAL ENGINEERING DIVISION AND FOUND TO BE IN CONFORMANCE WITH OUR RECOMMENDATIONS IN THE REPORT(S)

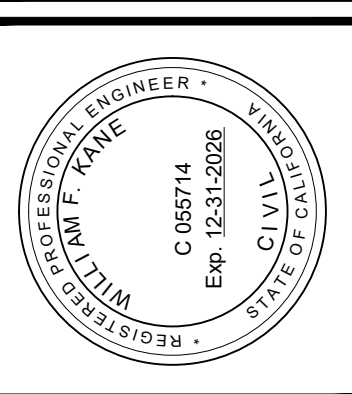
DATED: 3/6/2025 AND 4/18/2025

GE 2948 *Easton To* 9/2/2025
RCE / GE DATE

GEOTECHNICAL ENGINEER STAMPS



LADBS STAMPS



THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS

CITY OF LOS ANGELES

IDENTIFICATION MARKERS AND SYMBOLS
LARISSA DRIVE (3305) SLOPE MITIGATION
3305 LARISSA DRIVE
LOS ANGELES, CALIFORNIA 90026

DATE: BY: NO REVISIONS: INDEX NO. M1209

CITY ENGINEER: ALFRED MATA, P.E.
DESIGNED BY: WILLIAM F. KANE, P.E.
DRAWN BY: JOSEPH MCLEHANY
CHECKED BY: DANIEL ORRIS, C.E.G.
APPROVED BY: PATRICK SCHMIDT, P.E., G.E.

WORK ORDER NO. E1909217

SHEET NAME: G104
SHEET 4 OF 19 SHEETS



Grading Pre-Inspection Report

Work Description:

Proposed stabilization of an approximately 170-foot long and 20- to 40-foot high section of slope. Stabilization will be achieved by 1) removing an existing gunite facing on the slope, which is distressed, 2) removing approximately 180 cubic yards of loose soil and debris on the slope, 3) installing approximately 167 soil nails in a 8-foot horizontal and 8-foot vertical spacing, and 4) installation of 9,800 square feet of TECCO mesh netting (or equivalent) on the slope.

Inspector/Telephone: **ROBERT PINA, (213) 482-0398**
 Inspection District: **LA**
 Inspection Date: **08/21/2025**

Property Posted: **N/A** Posting Date: **N/A** Posting Fees Paid? **No**
 Tract: **TR 5012**
 Block: **3** Lot(s): **LARISSA PARK** ARB: **1** County Ref No: **M B 56-48/49 (SHTS 1-2)**

Approved Graded Lot: **No**
 Fill Over 100 Feet: **No**
 Slope of Surface: **Descending**

Bearing Value:
 Buttress Fill: **No**
 Natural Soil Classification 1804.2: **Slity sand**
 Cut: degrees Height: ft in

Fill: degrees Height: ft in	Slide Area: No
Natural: 1 to 1 degrees Height: 60ft in	PSDS Sized Per Code: Unknown
Sewer Available: Yes	Roof Gutters: No
Site is Below Street	Recommended Termination of Drainage
Condition of Street for Drainage Purposes paved	
Driveway Grade: % - N/A	Maximum Rough Grade Allowed: %

GRADING APPROVAL TO ISSUE PERMIT(S)
OK TO ISSUE. SEE BELOW FOR COMMENTS.
X DO NOT ISSUE UNTIL BELOW REQUIREMENTS HAVE BEEN SATISFIED.

Page 1 of 3

- X 1. A grading permit is required for **slope excavation and backfill**.
2. A retaining wall permit is required.
3. OSHA permit required for **vertical cuts 5 feet or over**.
4. All footings shall be founded in undisturbed natural soil per Code.
5. Design for expansive soil or submit a soils report to the grading division per information bulletin P/BC 2008-116 and 91.1805.8.
6. In the event excavations reveal unfavorable conditions, the services of a soils engineer and/or geologist may be required.
- X 7. **Soils report(s)** are required. Submit three copies (1 original and 2 copies), with appropriate fees, to the Grading Section for review and approval.
- X 8. Incorporate all recommendations of the approved Soils report(s) and Department letters dated to come into the plans. **Soils Engineer to sign plans**.
9. Site is subject to mudflow. Comply with provisions of Section 91.7014.3. Geological and soils report required.
10. Buildings shall be located clear of the toe of all slopes which exceed a gradient of 3 horizontal to 1 vertical as per Section 91.1805.3.1.
11. Footings shall be set back from the descending slope surface exceeding 3 horizontal to 1 vertical as per Section 91.1805.3.7.
12. Swimming pools and spas shall be set back from descending and ascending slopes as per Section 91.1805.3.3.
13. Department approval is required for construction of on or over slopes steeper than 2 horizontal to 1 vertical.
14. Provide complete details of engineered temporary shoring or slot cutting procedures on plans. Call for inspection before excavation begins.
- X 15. All concentrated drainage, including roof water, shall be conducted, via gravity, to the street or an approved location at a 2% minimum. Drainage to be shown on the plans.
16. A Registered Deputy Inspector is required.
- X 17. All fill or backfill shall be compacted by mechanical means to a minimum 90% relative compaction as determined by ASTM method D-1557. Subdrains shall be provided where required by Code.
- X 18. Specify on the plans: "The soils engineer is to approve the key or bottom and leave a certificate on the site for the grading inspector. The grading inspector is to be notified before any grading begins and, for bottom inspection, before fill is placed. Fill may not be placed without approval of the grading inspector."
- X 19. Existing non-conforming slopes shall be cut back at 2:1 (26 degrees) or retained. All concentrated drainage, including roof water, shall be conducted, via gravity, to the street or an approved location at a 2% minimum. Drainage to be shown on the plans.
20. All cut or fill slopes shall be no steeper than 2:1 (26 degrees).
- X 21. Stake and flag the property lines in accordance with a licensed survey map.
22. Approval required by the Department for.
23. Approval required by the Department of Public Works, Urban Forestry Division, for native tree protected ORD. 177,040. Phone # (213) 847-3077
24. This is a preliminary pre-inspection only - based on limited information. When complete plans (and possibly calculations and/or required reports) are submitted for a permit, a new pre-inspection and fee will be required.

Page 2 of 3

**** Additional requirements: Note: This GPI shall be made part of the approved set of plans.**

Construction of new occupied buildings or major additions to buildings on sites located in any of the Seismic Hazard Zones (liquefaction, Landslide or Alquist-Priolo Fault Zone) will require a geology and/or soil engineering report. For questions call (213) 482-0480.

Page 3 of 3

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DATED: 3/6/2025 AND 4/18/2025

GE 2948	<i>Easton To</i>	9/2/2025
RCE / GE		DATE

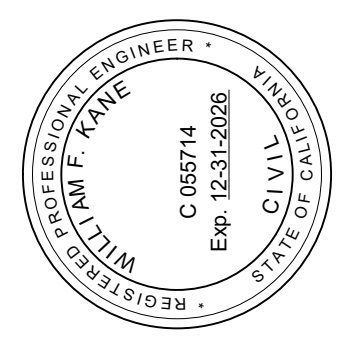
GEOTECHNICAL ENGINEER STAMPS



LADBS STAMPS



ENGINEERING
CITY OF LOS ANGELES



BUREAU OF ENGINEERING

GRADING PRE-INSPECTION REPORT
LARISSA DRIVE (3305) SLOPE MITIGATION
3305 LARISSA DRIVE LOS ANGELES, CALIFORNIA 90026

CIP NO.
M1209

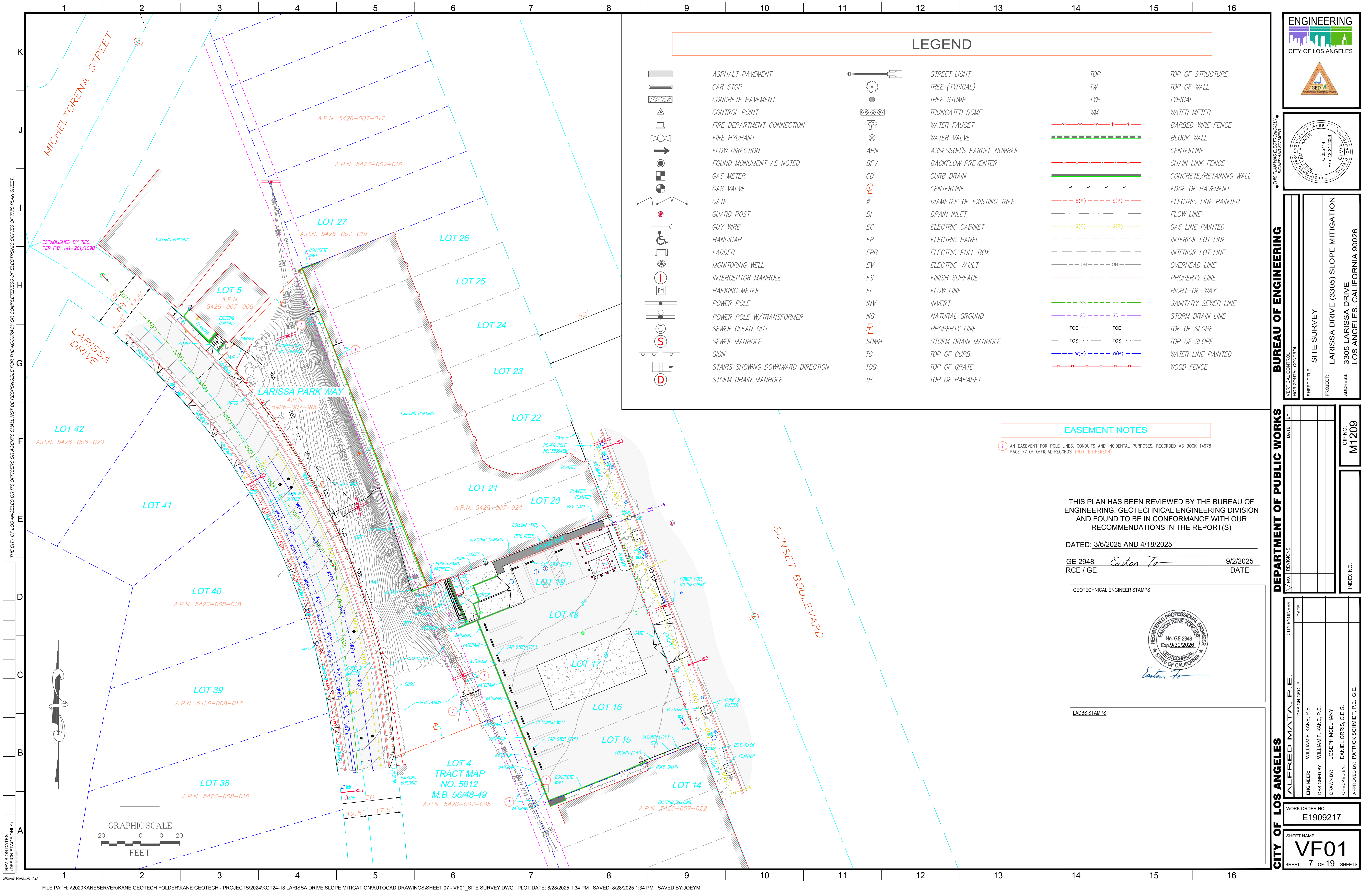
INDEX NO.

DEPARTMENT OF PUBLIC WORKS

CITY ENGINEER	
DESIGN GROUP	
ENGINEER:	WILLIAM F. KANE, P.E.
DESIGNED BY:	WILLIAM F. KANE, P.E.
DRAWN BY:	JOSEPH MCELHANY
CHECKED BY:	DANIEL ORRIS, C.E.G.
APPROVED BY:	PATRICK SCHMIDT, P.E., G.E.

WORK ORDER NO.
E1909217

SHEET NAME
GI06
SHEET 6 OF 19 SH



LEGEND			
	ASPHALT PAVEMENT		STREET LIGHT
	CAR STOP		TREE (TYPICAL)
	CONCRETE PAVEMENT		TREE STUMP
	CONTROL POINT		TRUNCATED DOME
	FIRE DEPARTMENT CONNECTION		WATER FAUCET
	FIRE HYDRANT		WATER VALVE
	FLOW DIRECTION		ASSESSOR'S PARCEL NUMBER
	FOUND MONUMENT AS NOTED		BACKFLOW PREVENTER
	GAS METER		CURB DRAIN
	GAS VALVE		CENTERLINE
	GATE		DIAMETER OF EXISTING TREE
	GUARD POST		DRAIN INLET
	GUY WIRE		ELECTRIC CABINET
	HANDICAP		ELECTRIC PANEL
	LADDER		ELECTRIC PULL BOX
	MONITORING WELL		ELECTRIC VAULT
	INTERCEPTOR MANHOLE		FINISH SURFACE
	PARKING METER		FLOW LINE
	POWER POLE		INVERT
	POWER POLE W/TRANSFORMER		NATURAL GROUND
	SEWER CLEAN OUT		PROPERTY LINE
	SEWER MANHOLE		STORM DRAIN MANHOLE
	SIGN		TOP OF CURB
	STAIRS SHOWING DOWNWARD DIRECTION		TOP OF GRATE
	STORM DRAIN MANHOLE		TOP OF PARAPET

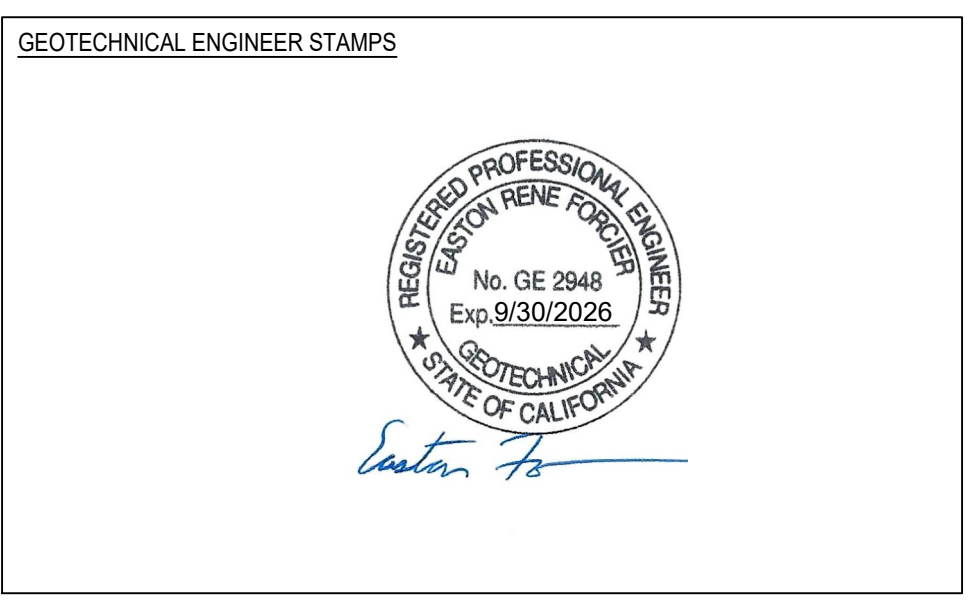
EASEMENT NOTES

1 AN EASEMENT FOR POLE LINES, CONDUITS AND INCIDENTAL PURPOSES, RECORDED AS BOOK 14978 PAGE 77 OF OFFICIAL RECORDS. (PLOTTED HEREON)

THIS PLAN HAS BEEN REVIEWED BY THE BUREAU OF ENGINEERING, GEOTECHNICAL ENGINEERING DIVISION AND FOUND TO BE IN CONFORMANCE WITH OUR RECOMMENDATIONS IN THE REPORT(S)

DATED: 3/6/2025 AND 4/18/2025

GE 2948 *Easton To* 9/2/2025
RCE / GE DATE



LADBS STAMPS	
CITY ENGINEER	DATE:
DESIGN GROUP	
ENGINEER: WILLIAM F. KANE, P.E.	
DESIGNED BY: WILLIAM F. KANE, P.E.	
DRAWN BY: JOSEPH MCLELLANY	
CHECKED BY: DANIEL ORRIS, C.E.G.	
APPROVED BY: PATRICK SCHMIDT, P.E., G.E.	

ENGINEERING
CITY OF LOS ANGELES

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. KANE
C 055714
Exp. 12/31/2026
CIVIL
STATE OF CALIFORNIA

BUREAU OF ENGINEERING

HORIZONTAL CONTROL: ☐ VERTICAL CONTROL: ☐

SHEET TITLE: **SITE SURVEY**

PROJECT: **LARISSA DRIVE (3305) SLOPE MITIGATION**

ADDRESS: **3305 LARISSA DRIVE
LOS ANGELES, CALIFORNIA 90026**

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

CIP NO. **M1209**

INDEX NO. **VF01**

CITY OF LOS ANGELES

ALFRED MATA, P.E.

WORK ORDER NO. **E1909217**

SHEET NAME **VF01**

SHEET **7** OF **19** SHEETS

GENERAL NOTES

3. THE GEOTECHNICAL ENGINEERING REPORTS DATED MARCH 6, 2025, AND APRIL 18, 2025, ARE PART OF THE PLANS. THE PLAN HAS BEEN REVIEWED AND CONFORMS TO THE RECOMMENDATIONS OF THE GEOLOGIC AND GEOTECHNICAL ENGINEERING REPORTS.
2. ANTICIPATED SOIL/GEOLOGIC CONDITIONS FOR DRILLING OF HOLES FOR SOIL NAILS: FILL AND NATURAL SOIL CONSISTING OF LOOSE TO MEDIUM DENSE SILT WITH SAND CLAYEY SILT UNDERLAIN BY PUENTE FORMATION BEDROCK. THE BEDROCK CONSISTS OF SOFT TO MODERATELY HARD, AND MODERATELY TO HEAVILY JOINTED AND FRACTURED SILTSTONE, CLAYSTONE, AND SHALE. BECAUSE OF THE MODERATELY HARD NATURE OF THE BEDROCK, THE CONTRACTOR SHOULD ANTICIPATE USING SPECIALTY ROCK EXCAVATION EQUIPMENT. WHEN INSTALLING SOIL NAILS, AREAS OF DIFFICULT DRILLING MAY BE ENCOUNTERED.
3. GEOTECHNICAL ENGINEERING DIVISION OF THE CITY OF LOS ANGELES (213) 847-0476 SHALL BE ON SITE TO APPROVE GRADING EARTHWORK WHERE PROJECTS INVOLVE UNUSUAL HAZARDS. (L.A.B.C. SECTION 91.1701.5)
4. THE PROJECT GEOTECHNICAL ENGINEER SHALL OBSERVE THE SLOPE FOLLOWING THE CLEARING AND GRUBBING, BE PRESENT DURING UTILITY RELOCATION (IF ANY), BE PRESENT DURING DRILLING AND ALSO INSPECT AND APPROVE ALL DRILLED HOLES AND EXCAVATIONS PRIOR TO THE PLACEMENT OF STEEL OR GROUT. THE GEOTECHNICAL ENGINEER SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO ANY REQUEST FOR INSPECTION.
5. THE CONTRACTOR SHALL SUBMIT SITE SPECIFIC PLANS FOR THE PROPOSED LAYOUT OF TEMPORARY EROSION CONTROL, TO BE INSTALLED BETWEEN OCTOBER 1 AND APRIL 15. OBTAIN GRADING INSPECTOR'S AND DEPARTMENT OF PUBLIC WORKS APPROVAL OF PROPOSED PROCEDURES. (L.A.B.C. SECTION 91.7007.1).
6. THE STAMPED SET OF PLANS APPROVED BY BUILDING AND SAFETY SHALL BE ON THE JOB SITE AT ALL TIMES.
7. APPROVAL BY THE INSPECTOR DOES NOT MEAN APPROVAL FOR FAILURE TO COMPLY WITH THE PLANS OR SPECIFICATIONS. ANY DESIGN THAT FAILS TO BE CLEAR OR IS AMBIGUOUS SHALL BE REFERRED TO THE ENGINEER FOR INTERPRETATION OR CLARIFICATION PRIOR TO CONSTRUCTION.
8. UNDERGROUND SERVICE ALERT (U.S.A.): WITHIN TEN DAYS BEFORE STARTING DRILLING OPERATIONS OR EXCAVATION WORK, THE CONTRACTOR SHALL CALL 1-800-422-4133 AND OBTAIN A U.S.A. INQUIRY IDENTIFICATION NUMBER. AFTER OBTAINING THE NUMBER, DRILLING OR EXCAVATIONS SHALL NOT PROCEED FOR TWO WORKING DAYS TO ALLOW FOR NOTIFICATION OF UTILITY OWNERS. THE NUMBER SHALL ALSO BE REPORTED TO THE INSPECTOR WHEN REQUESTING INSPECTION. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES WHICH HAVE BEEN MARKED BY THE RESPECTIVE OWNERS AND PROTECT THEM DURING CONSTRUCTION. THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS TO PROTECT AND MAINTAIN CONTINUOUS SERVICE OF UNDERGROUND UTILITY LINES.
9. REGISTERED DEPUTY GRADING INSPECTOR IS REQUIRED ON GRADING AND FOUNDATION EARTHWORK WHERE CUT OR FILL SLOPES EXCEED 2:1.
10. ALL EARTHWORK INCLUDING EXCAVATIONS, SLOPE CLEARING, AND GRADING SHALL CONFORM TO THE RECOMMENDATIONS OF THE PROJECT GEOLOGIC AND GEOTECHNICAL ENGINEERING REPORTS DATED MARCH 6, 2025, AND APRIL 18, 2025, AND ALL OTHER GEOTECHNICAL REPORTS ON FILE.

ENGINEER'S NOTICE TO CONTRACTOR

1. CALL UNDERGROUND SERVICE ALERT (USA). USA REPRESENTS MANY, BUT NOT NECESSARILY ALL, UTILITY AND OIL COMPANIES THAT HAVE UNDERGROUND LINES WITHIN THE PROJECT AREA. IN ORDER TO AVOID DAMAGE TO THESE LINES, CONTACT USA TWO WORKING DAYS PRIOR TO DIGGING OR EXCAVATION. USA WILL ASSIST IN IDENTIFYING THOSE COMPANIES THAT THEY REPRESENT WHICH HAVE UTILITY LINES IN THE AREA AND CONTACTING THE RESPECTIVE COMPANIES THEY REPRESENT TO HAVE THOSE LINES MARKED ON THE GROUND.
2. PRIVATE AND PUBLIC UTILITIES AS SHOWN REFLECT AVAILABLE RECORD INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL LINES AFFECTING THIS WORK AND ANY DAMAGE OR PROTECTION TO THESE LINES. PRIOR TO STARTING CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR SHALL VERIFY THE EXISTING ELEVATIONS OF THE EXISTING MAINS WHEN MAKING CONNECTIONS AND UNCOVERING ALL EXISTING UTILITY LINES AFFECTING THIS WORK. IF A CONFLICT IN LOCATION IS NOTED, THE ENGINEER MUST BE NOTIFIED BEFORE PROCEEDING.
3. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL EXISTING SUBSTRUCTURE LOCATIONS, ELEVATIONS, AND DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, AND DIMENSIONS BEFORE COMMENCING CONSTRUCTION. ALL SUBSTRUCTURES SHALL BE PROTECTED.
5. MATERIAL QUANTITIES SHOWN ON THE PLANS ARE ESTIMATED.

6. THE CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING CONSTRUCTION OF THE PROJECT INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE CONSULTING ENGINEER, AND ALL PUBLIC AGENCIES HARMLESS FROM ANY AND ALL PUBLIC AGENCIES HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER THE CONSULTING ENGINEER OR ANY PUBLIC AGENCY.
7. ALL CONTRACTORS AND SUB-CONTRACTORS THAT SHALL WORK IN OR NEAR ANY TRENCHES OR EXCAVATIONS FIVE FEET OR DEEPER ARE REQUIRED TO HAVE EITHER A CAL-OSHA ANNUAL CONSTRUCTION PERMIT OR CAL-OSHA PROJECT CONSTRUCTION PERMIT.

SURVEY NOTES

1. THE CONTRACTOR SHALL OBTAIN A LICENSED SURVEYOR FOR THIS PROJECT. THE SURVEYOR'S RESPONSIBILITIES SHALL INCLUDE, BUT NOT BE LIMITED TO, THE PROJECT SITE SURVEY, AS-BUILTS, SURVEY FOR SLOPE AND GROUND MOVEMENT MONITORING, AND ANY ADDITIONAL SURVEYS REQUIRED BY THE CONTRACTOR FOR CONSTRUCTION.
2. THE APPROXIMATE LOCATIONS OF THE RECOMMENDED SURVEY MONUMENTS AND THE REQUIRED FREQUENCY OF SURVEYING IS INCLUDED IN THE PROJECT GEOTECHNICAL REPORT, DATED MARCH 6, 2025. THE LOCATIONS OF THE SURVEY MONUMENTS SHOULD BE CAREFULLY SELECTED SUCH THAT THEY WILL NOT BE IMPACTED BY THE PROPOSED CONSTRUCTION. DURING CONSTRUCTION, SURVEYING OF THE MONUMENTS SHALL BE PERFORMED ON A WEEKLY BASIS DURING THE CRITICAL PHASES. AFTER CONSTRUCTION COMPLETION AS DESIGNED BY THE ENGINEER, SURVEYING OF THE MONUMENTS SHALL BE PERFORMED ONE MONTH, THREE MONTHS, AND SIX MONTHS, POST CONSTRUCTION. INSTALLATION OF THE SURVEY MONUMENTS AND THE SURVEY DATA SHALL BE COORDINATED WITH AND PROVIDED TO THE PROJECT ENGINEER AND CONSTRUCTION MANAGER.

UNAUTHORIZED CHANGES AND USES

1. CAUTION: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS SHALL BE IN WRITING AND SHALL BE APPROVED BY THE ENGINEER AND PREPARER OF THESE PLANS.

SOIL NAILING

1. SOIL NAIL INSTALLATION AND TESTING SHALL COMPLY WITH THE GEOTECHNICAL REPORT(S) DATED MARCH 6, 2025, AND APRIL 18, 2025 AND LADBS APPROVED CONDITIONS.
2. THE SOIL NAILING CONTRACTOR SHALL SUBMIT A PROJECT REFERENCE LIST VERIFYING THE SUCCESSFUL CONSTRUCTION COMPLETION OF AT LEAST 3 PERMANENT SOIL NAIL AND WIRE MESH PROJECTS DURING THE PAST FIVE YEARS TOTALING AT LEAST 9,000 SQUARE FEET OF SLOPE FACE AREA AND AT LEAST 500 PERMANENT SOIL NAILS. A BRIEF DESCRIPTION OF EACH PROJECT WITH THE OWNER'S NAME AND CURRENT PHONE NUMBER SHALL BE INCLUDED.
3. THE CONTRACTOR SHALL HAVE EXPERIENCE IN THE CONSTRUCTION OF PERMANENT SOIL NAIL AND WIRE MESH SYSTEMS ON AT LEAST 3 COMPLETED PROJECTS OVER THE PAST 5 YEARS SHALL SUPERVISE THE WORK. THE ON-SITE SUPERVISOR AND DRILL RIG OPERATORS SHALL HAVE EXPERIENCE INSTALLING PERMANENT SOIL NAILS ON AT LEAST 3 PROJECTS OVER THE PAST 5 YEARS. THE CONTRACTOR SHALL NOT USE CONSULTANTS OR MANUFACTURER'S REPRESENTATIVES TO SATISFY THE REQUIREMENTS OF THIS SECTION.
4. AT LEAST 30 CALENDAR DAYS BEFORE STARTING CONSTRUCTION, THE SOIL NAIL AND WIRE MESH SYSTEM CONTRACTOR SHALL SUBMIT FIVE COPIES OF THE COMPLETED PROJECT EXPERIENCE LIST AND A LIST IDENTIFYING THE SUPERVISING ENGINEER, DRILL RIG OPERATORS, AND ON SITE SUPERVISORS ASSIGNED TO THE PROJECT. THE PERSONNEL LIST SHALL CONTAIN A SUMMARY OF EACH INDIVIDUAL'S EXPERIENCE AND BE COMPLETE ENOUGH FOR THE ENGINEER TO DETERMINE WHETHER EACH INDIVIDUAL SATISFIES THE REQUIRED QUALIFICATIONS. THE ENGINEER WILL APPROVE OR REJECT THE CONTRACTOR'S QUALIFICATIONS WITHIN 15 CALENDAR DAYS AFTER THE RECEIPT OF A COMPLETE SUBMISSION. WORK SHALL NOT BE STARTED NOR MATERIALS ORDERED UNTIL THE ENGINEER'S WRITTEN APPROVAL OF THE CONTRACTOR'S QUALIFICATIONS IS GIVEN.
5. THE ENGINEER MAY SUSPEND THE WORK IF THE CONTRACTOR USES NON-APPROVED PERSONNEL. IF WORK IS SUSPENDED, THE CONTRACTOR SHALL BE FULLY LIABLE FOR ALL RESULTING COSTS AND NO ADJUSTMENT IN CONTRACT TIME WILL RESULT FROM THE SUSPENSION.
6. PRIOR TO PLACEMENT OF WIRE MESH, ALL EXISTING DEBRIS, CONCRETE MATERIAL, LOOSE SOIL, BEDROCK, AND VEGETATION SHALL BE REMOVED TO FIRM MATERIAL, AS APPROVED BY THE GEOTECHNICAL ENGINEER. CLEARING AND GRUBBING AND REMOVALS SHALL PRESERVE THE NATURAL CONTOUR OF THE SLOPE AS MUCH AS POSSIBLE AND RENDER THE SLOPE

SMOOTH ENOUGH TO PLACE THE WIRE MESH AND OR SOIL NAILS.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL THE SOIL NAILS INDICATED ON THE PLANS.
8. SOIL NAIL DRILLING SHALL BE CONDUCTED UNDER THE OBSERVATION OF THE PROJECT GEOTECHNICAL ENGINEER, EASTON FORCIER, GEOTECHNICAL ENGINEER AT (213) 847-0476, FOR THE CITY OF LOS ANGELES.
9. A REGISTERED DEPUTY INSPECTOR APPROVED BY THE DEPARTMENT OF BUILDING AND SAFETY IS REQUIRED DURING THE DRILLING, GROUTING, AND SHOTCRETE (GUNITE) REMOVAL.
10. DRILLED HOLES SHALL BE FILLED WITH GROUT IMMEDIATELY AFTER THE STEEL IS INSERTED INTO THE HOLE AND PLACED.

STORMWATER POLLUTION CONTROL NOTES

1. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
2. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
3. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
4. NON-STORMWATER RUNOFF FROM EQUIPMENT AND VEHICLE WASHING AND ANY OTHER ACTIVITY SHALL BE CONTAINED AT THE PROJECT SITE.
5. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
6. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
7. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
8. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.

EARTHWORK NOTES TO CONTRACTOR

1. THE EXISTING TOPOGRAPHY AS DELINEATED ON THESE PLANS SHALL BE UTILIZED AS THE BASIS FOR ALL EARTHWORK COMPUTATIONS. SAID TOPOGRAPHY SHALL BE PRESUMED TO BE ACCEPTABLE TO ALL INTERESTED PARTIES UNLESS A DEVIATION IS FOUND PRIOR TO THE START OF GRADING IN ANY SPECIFIC AREAS. ANY DEVIATION SO DETERMINED SHALL BE PROMPTLY TRANSMITTED TO ALL INTERESTED PARTIES.
2. THE CONTRACTOR IS REQUIRED TO ESTIMATE THE QUANTITIES OF GRADING WORK TO BE DONE AND INCLUDE ALL COSTS THEREFROM IN THE BID, AS NO ADDITIONAL ALLOWANCE WILL BE MADE WITHOUT PRIOR CONSENT FROM THE GED.
3. OVER-EXCAVATION AND/OR EXCESS BACKFILLING OR DUPLICATION OF GRADING ACTIVITIES WITHOUT APPROVAL OF THE GEOTECHNICAL ENGINEERING DIVISION (GED) IS NOT A BASIS FOR ADDITIONAL COMPENSATION. THIS ALSO APPLIES WHERE MATERIAL IS TO BE REMOVED AND REPLACED TO REDUCE MOISTURE CONTENT.
4. OFF-SITE DISPOSAL OF EXCAVATION MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN HIS BID. THE CONTRACTOR SHALL HOLD THE OWNER AND ENGINEER HARMLESS AS A RESULT OF ANY CLAIMS ARISING FROM ACTIONS ENROUTE OR AWAY FROM THE SITE.
5. EARTH VOLUMES SHOWN HEREON ARE ESTIMATES BASED UPON THE GEOTECHNICAL ANALYSIS PERFORMED BY THE NAMED SOILS ENGINEER AND TOPOGRAPHIC SURVEY OF THE EXISTING GROUND SURFACE AT THE TIME OF PLAN PREPARATION. EARTHWORK VOLUMES ARE COMPUTED BY METHODS COMMONLY USED IN STANDARD ENGINEERING PRACTICE AND ARE INTENDED FOR USE IN ESTABLISHING GOVERNING AGENCY FEES. ACTUAL FIELD CONDITIONS MAY VARY FROM OBSERVED OR MEASURED CONDITIONS AT THE TIME OF PLAN PREPARATION. EARTHWORK QUANTITIES MAY VARY AS A RESULT.
6. EARTHWORK QUANTITIES DO NOT REFLECT ANY MATERIAL GENERATED BY UTILITY TRENCHING. ANY EXPORT OR IMPORT REQUIRED TO BALANCE THE SITE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

7. ALL EXCAVATIONS, GRADING, AND REMOVAL OF SOIL SHALL CONFORM TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING DIVISION'S GEOLOGIC AND GEOTECHNICAL ENGINEERING REPORTS DATED MARCH 6, 2025, AND APRIL 18, 2025; INCLUSIVE OF CONDITIONS INCLUDED BY LADBS FOR CONTRACTORS USE AND COMPLIANCE. ANY IMPORT MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
8. ANY SOIL AND OR BEDROCK THAT IS LOOSENEED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE REMOVED. THE GRADED SLOPE AFTER GUNITED REMOVAL, SLOPE CLEARING, AND GRADING SHALL BE OBSERVED, AND APPROVED BY A REPRESENTATIVE OF THE GED AND THE GEOTECHNICAL ENGINEER PRIOR TO CONTINUATION OF CONSTRUCTION.

SEQUENCE OF CONSTRUCTION

1. AFTER THE SLOPE PREPARATION IS COMPLETE, THE SOIL NAILS SHALL BE INSTALLED IN A TOP-DOWN APPROACH. EACH ROW OF SOIL NAILS SHALL BE INSTALLED PRIOR TO INSTALLING THE LOWER SUBSEQUENT SOIL NAIL ROWS.
2. ONCE THE SOIL NAILS ARE INSTALLED AND TESTED, THE EROSION CONTROL MAT SHALL BE INSTALLED ONTO THE SLOPE FACE.
3. FOLLOWING THE EROSION MAT PLACEMENT HE HIGH-STRENGTH STEEL WIRE MESH SYSTEM SHALL BE INSTALLED.
4. THE CONTRACTOR IS RESPONSIBLE FOR SAFELY STAGING MATERIALS TO AVOID INSTALLATION DELAY AND WEATHER DAMAGE BEFORE MESH INSTALLATION IS COMPLETED. ON SITE STORAGE OF MATERIALS IS NOT FEASIBLE.

AS-BUILT PLANS

1. AN "AS-BUILT" PLAN APPROVED AND SIGNED BY THE GEOTECHNICAL ENGINEER SHALL BE SUBMITTED TO THE DEPARTMENT OF BUILDING AND SAFETY UPON COMPLETION OF WALL CONSTRUCTION. THE REPORT SHALL BE SIGNED BY THE GEOTECHNICAL ENGINEER OF RECORD.
2. THE AS-BUILT PLANS SHALL INCLUDE MONITORING DATA, ANALYSES, CONCLUSIONS, AND RECOMMENDATIONS.

REGISTERED DEPUTY INSPECTOR

1. A REGISTERED DEPUTY GRADING INSPECTOR APPROVED BY AND RESPONSIBLE TO THE PROJECT GEOTECHNICAL ENGINEER SHALL BE REQUIRED TO PROVIDE CONTINUOUS INSPECTION FOR THE SOIL NAILING, DRILLING, AND INSTALLATION.
2. UNLOADING, HANDLING, AND STORAGE OF THE THE SOIL NAILS SHALL BE PERFORMED UNDER THE INSPECTION OF THE DEPUTY GRADING INSPECTOR.

THIS PLAN HAS BEEN REVIEWED BY THE BUREAU OF
ENGINEERING, GEOTECHNICAL ENGINEERING DIVISION
AND FOUND TO BE IN CONFORMANCE WITH OUR
RECOMMENDATIONS IN THE REPORT(S)

DATED: 3/6/2025 AND 4/18/2025

GE 2948	<i>Easton 70</i>	9/2/2025
RCE / GE		DATE

GEOTECHNICAL ENGINEER STAMPS

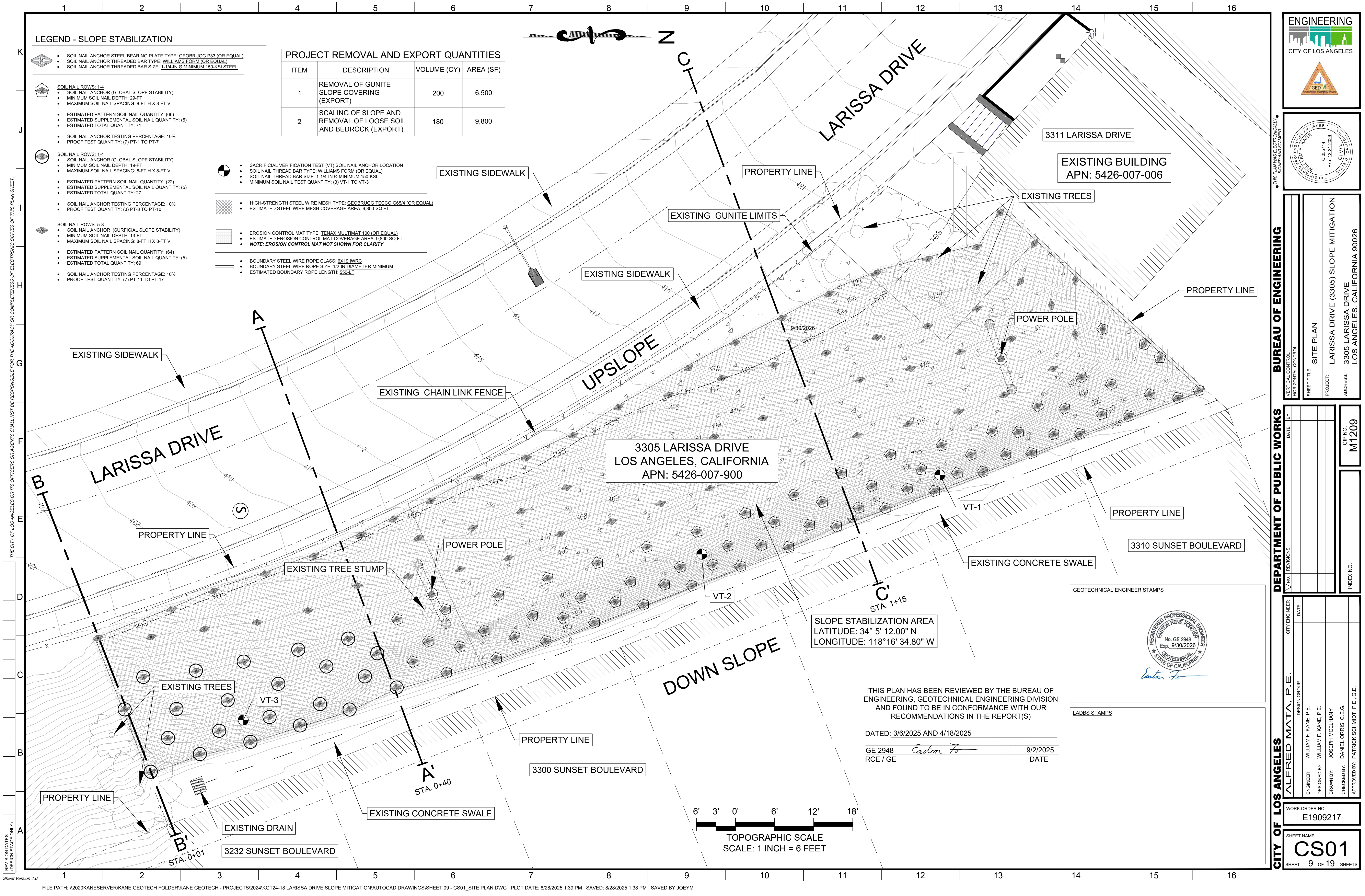
REGISTERED PROFESSIONAL ENGINEER
EASON PENE FORESTER
No. GE 2948
Exp. 9/30/2026
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GEOTECHNICAL
STATE OF CALIFORNIA

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LADBS STAMPS



Know what's **below**.
Call before you dig.

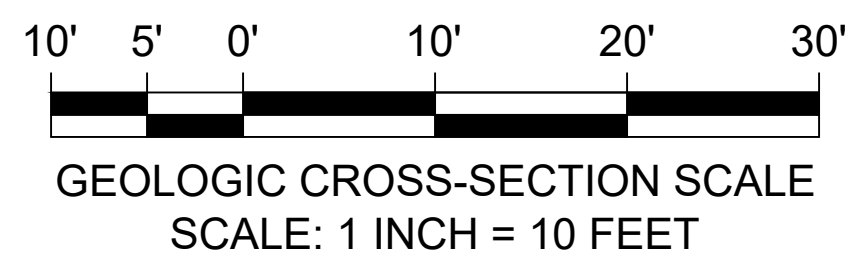
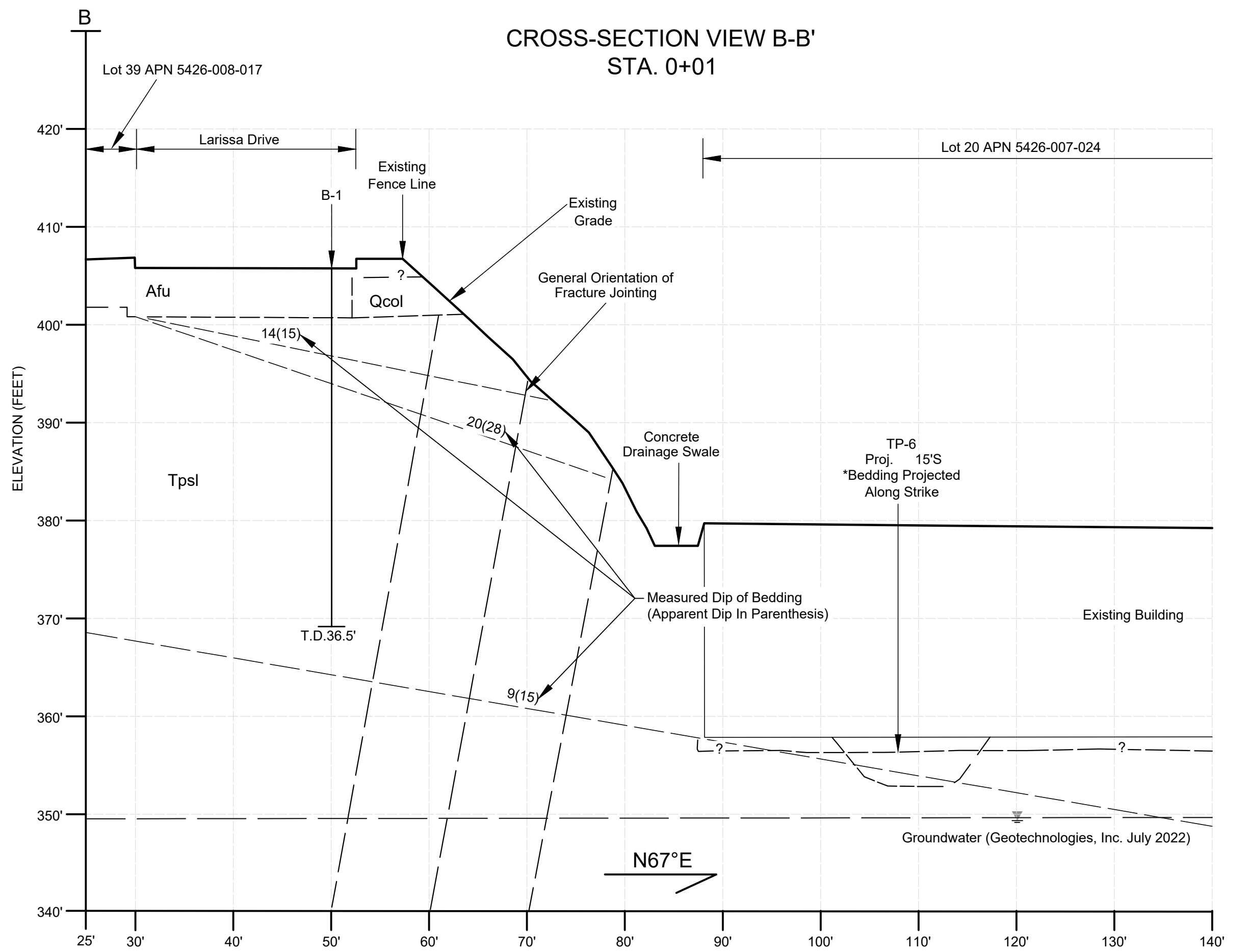
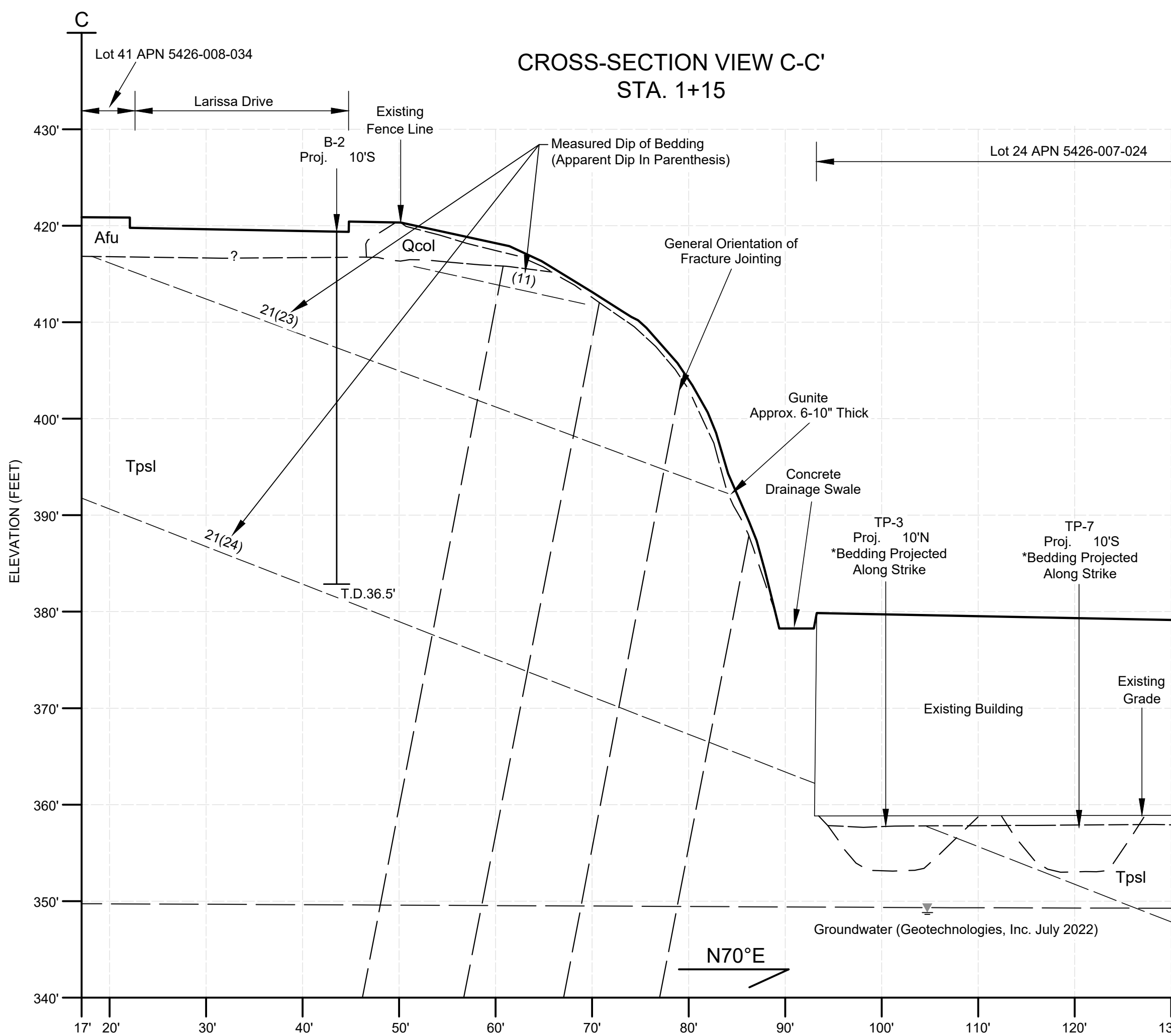
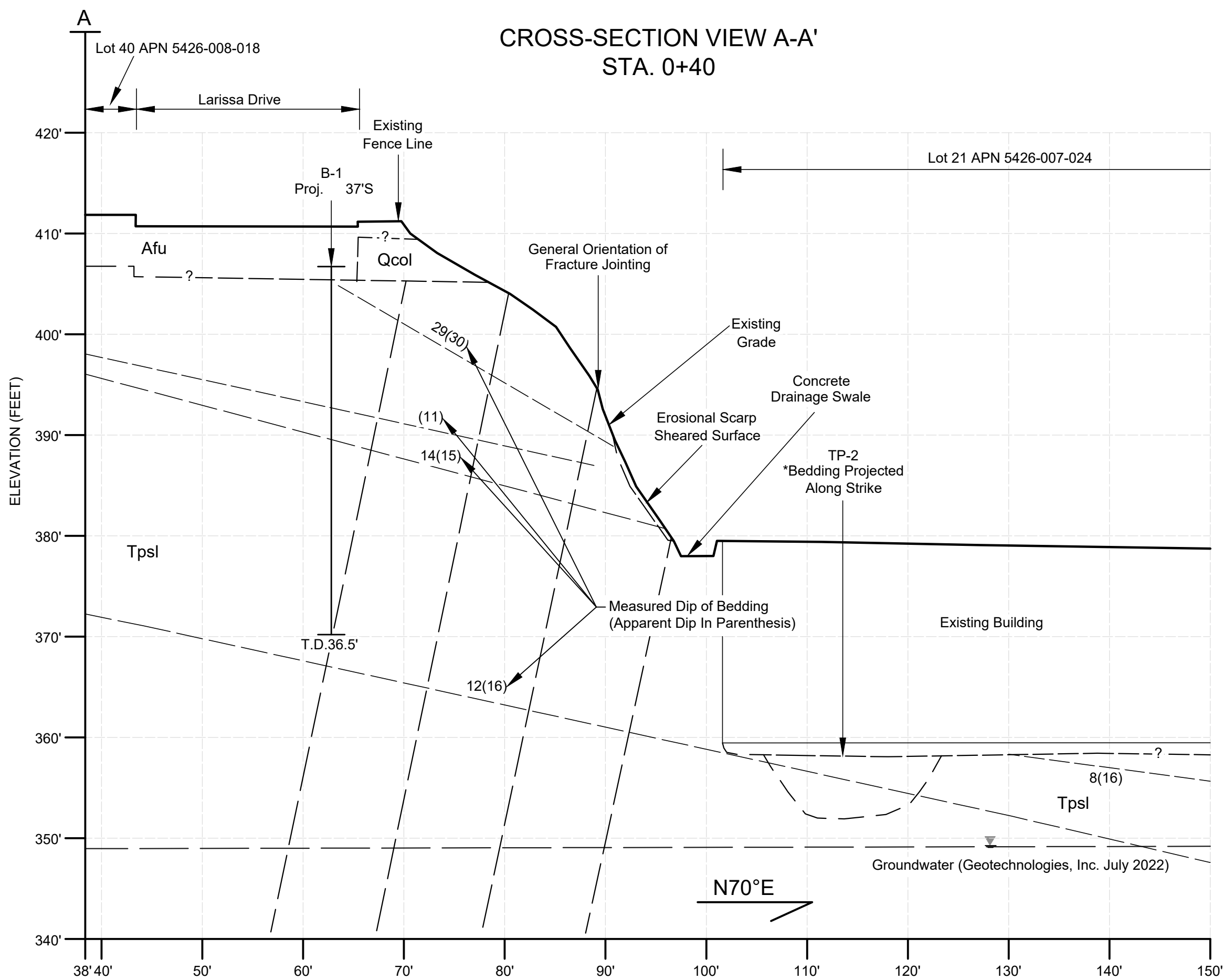


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REVISION DATES
(DESIGN STAGE ONLY)

Sheet Version 4.0

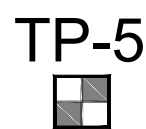
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GEOLOGIC CROSS-SECTION LEGEND



Approximate Location of Leighton Hollow-Stem Auger Boring showing total depth (T.D.), depth to earth units, and depth to groundwater in feet below ground surface (current study).



Approximate Location of Test Pit and corresponding strike and dip data (Geotechnologies, 2022).



Geotechnical Cross Section

Qcol

Clayey SILT (CL-ML): light brown to medium brown, CaCO₃ stringers, fine to coarse sand size to fine gravel size rock fragments, rootlets to large diameter tree roots, near vertical soil structure to open cracks near top of slope, blocky, dry, porous, friable

Tp

Tertiary age Puente Formation (Tush) by Dibblee- punky white, olive brown to oxidized orange brown shale, laminated to thick bed (3-4 inches), minor off set fractures.

Marker Bed

THIS PLAN HAS BEEN REVIEWED BY THE BUREAU OF ENGINEERING, GEOTECHNICAL ENGINEERING DIVISION AND FOUND TO BE IN CONFORMANCE WITH OUR RECOMMENDATIONS IN THE REPORT(S)

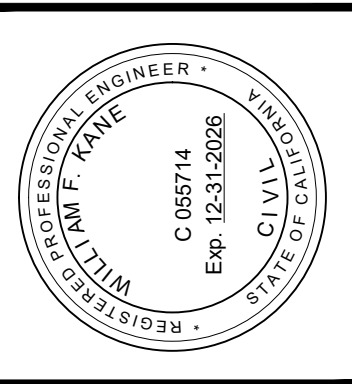
DATED: 3/6/2025 AND 4/18/2025

GE 2948 *Easton To* 9/2/2025
RCE / GE DATE

GEOTECHNICAL ENGINEER STAMPS



LADBS STAMPS



THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS

CITY OF LOS ANGELES

HORIZONTAL CONTROL:	GEOLOGIC CROSS-SECTIONS A-A', B-B', C-C'
SHEET TITLE:	LARISSA DRIVE (3305) SLOPE MITIGATION
PROJECT:	3305 LARISSA DRIVE
ADDRESS:	LOS ANGELES, CALIFORNIA 90026

DATE:	
BY:	
NO.	
REVISIONS:	
CIP NO.	M1209
INDEX NO.	

CITY ENGINEER:	DATE:
DESIGN GROUP:	
ENGINEER: WILLIAM F. KANE, P.E.	
DESIGNED BY: WILLIAM F. KANE, P.E.	
DRAWN BY: JOSEPH MCLEHANY	
CHECKED BY: DANIEL ORRIS, C.E.G.	
APPROVED BY: PATRICK SCHMIDT, P.E., G.E.	

WORK ORDER NO.
E1909217

SHEET NAME
CI01
SHEET 10 OF 19 SHEETS

FILE PATH: \\2020KANESERVER\KANE GEOTECH FOLDER\KANE GEOTECH - PROJECTS\2024\KGT24-18 LARISSA DRIVE SLOPE MITIGATION\AUTOCAD DRAWINGS\SHEET 11 - SG01 STRUCTURAL AND CONSTRUCTION NOTES.DWG PLOT DATE: 8/28/2025 1:43 PM SAVED: 8/28/2025 1:43 PM SAVED BY: JOEYM



REVISION DATES
(DESIGN STAGE ONLY)

TOPOGRAPHIC SCALE
SCALE: 1 INCH = 15 FEET

1. FOR IDENTITY SYMBOLS, LINE AND MATERIAL SYMBOLS, SEE SHEET GI04.
2. ALL STRUCTURES, IMPROVEMENTS, AND COMPONENTS OUTSIDE THE PROJECT AREA SHALL BE PROTECTED IN PLACE DURING CONSTRUCTION.
3. TEMPORARY SHORING MAY BE NEEDED BY THE CONTRACTOR DURING CONSTRUCTION TO PROTECT ADJACENT STRUCTURES.
4. ALL BURIED AND OVERHEAD UTILITY LINES (SEWER, LADWP, TELECOMMUNICATION) ON THE PLAN ARE APPROXIMATE. UTILITY LINES NOT SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE PM/CONTRACTOR.
5. THE CONTRACTOR SHALL POTHOLE AND/OR VERIFY THE DEPTH AND LOCATION OF EXISTING UTILITIES PER DIRECTION OF THE PROJECT MANAGER (PM) AND SHALL PROTECT ALL EXISTING. NOTIFY PM IMMEDIATELY OF ANY DISCREPANCIES OF UTILITY LINE IN LOCATION AND INTERFERENCE DURING CONSTRUCTION.

- 1 APPROXIMATE LIMITS OF CONSTRUCTION AREA.
- 2 EXISTING EROSION CONTROL MEASURES COVERING THE CONSTRUCTION AREA, INCLUDING PLASTIC SHEETING AND SANDBAGS, ARE TO BE REMOVED AND DISPOSED DURING CONSTRUCTION.
- 3 CLEAR, GRUB, AND DISPOSE OF ALL BUSHES, VEGETATION (EXCLUDING TREES), AND STUMPS IN THE CONSTRUCTION AREA. TREE TRIMMING, IF REQUIRED, SHALL BE PERFORMED BY A CITY-APPROVED TREE TRIMMER. COORDINATION BETWEEN THE CONTRACTOR AND PM SHALL BE REQUIRED FOR TREES AFFECTING CONSTRUCTION.
- 4 REMOVE AND DISPOSE OF APPROXIMATELY 200 CUBIC YARDS OF EXISTING PNEUMATICALLY APPLIED CONCRETE (ALSO REFERRED TO AS GUNITE) COVERING THE SITE, AVERAGING 9-INCHES IN THICKNESS, INCLUDING THE WIRE MESH REINFORCEMENT.
- 5 EXISTING UTILITY POLES (INCLUDING GUY WIRES) AND OVERHEAD POWER/TELECOMMUNICATION LINES TO BE PROTECTED IN PLACE DURING CONSTRUCTION. LADWP AND TELECOMMUNICATION COMPANIES TO BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
- 6 EXISTING CONCRETE RETAINING WALL AND PARAPET WALL TO REMAIN AND BE PROTECTED IN PLACE DURING CONSTRUCTION.
- 7 EXISTING CONCRETE DRAINAGE SWALE, TO BE PROTECTED IN PLACE DURING CONSTRUCTION.
- 8 EXISTING CATCH BASIN, TO BE PROTECTED IN PLACE DURING CONSTRUCTION.
- 9 EXISTING CONCRETE SIDEWALK, TO BE PROTECTED IN PLACE DURING CONSTRUCTION.
- 10 EXISTING CHAIN-LINK FENCE MAY REQUIRE TEMPORARY REMOVAL DURING CONSTRUCTION, AND RE-INSTALLING AT COMPLETION OF CONSTRUCTION.
- 11 EXISTING BUILDING (BELOW CONSTRUCTION AREA), TO BE PROTECTED IN PLACE DURING CONSTRUCTION.

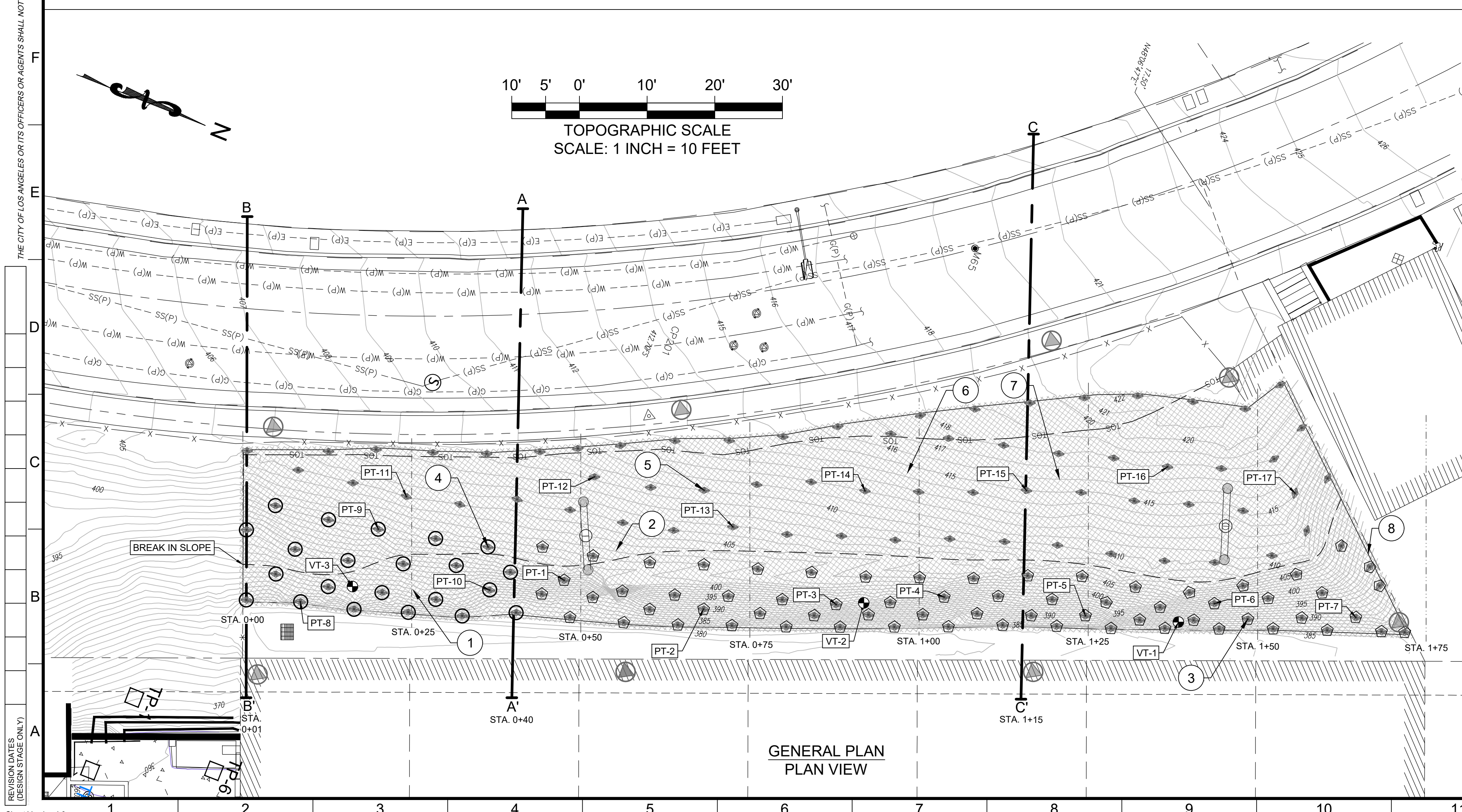
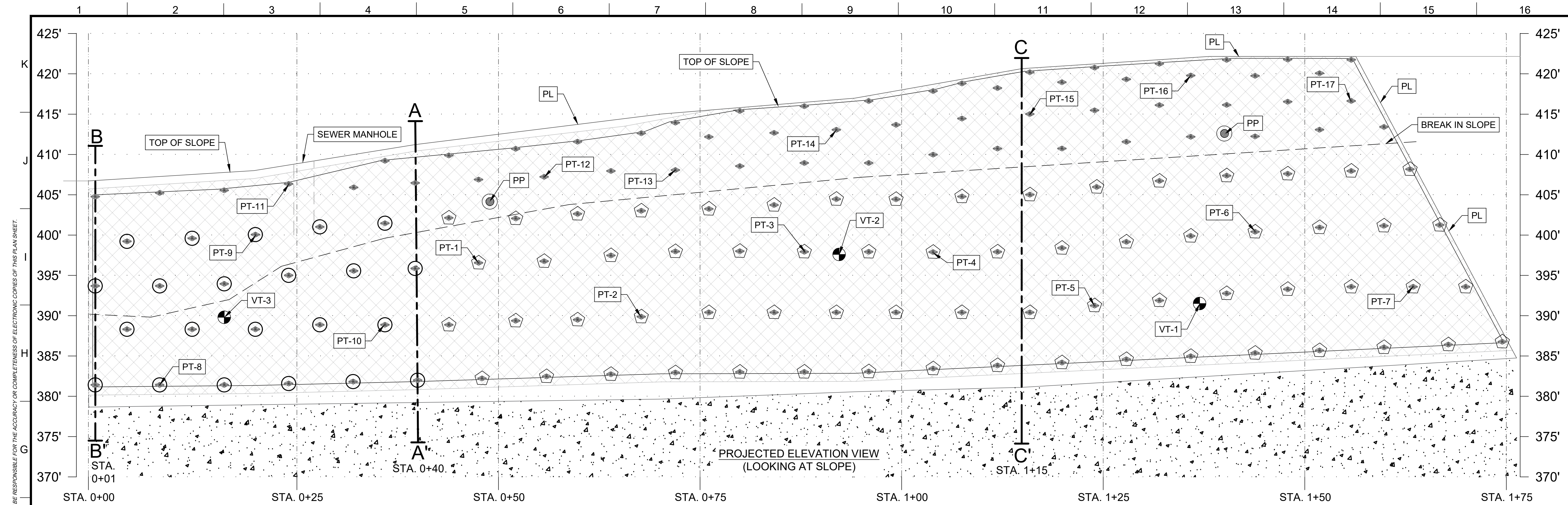
GE 2948	<i>Easton 70</i>	9/2/2025
RCE / GE		DATE

GEOTECHNICAL ENGINEER STAMPS



LADBS STAMPS

CITY OF LOS ANGELES



KEY NOTES

- PROJECT STATIONING.
- AREA REQUIRING SCALING AND REMOVAL OF LOOSE/DISTURBED SOIL AND BEDROCK FROM THE SLOPE, (APPROXIMATELY 180 CY +/-) AS DIRECTED BY THE ENGINEER AND PROJECT CERTIFIED ENGINEERING GEOLOGIST.
- MAP SYMBOL INSTALL NEW SOIL NAIL (ROWS 1 - 4), INCLUDING ALL SPECIFIED HARDWARE PER PLAN, TO A MINIMUM DEPTH OF 29 FEET, AT 8-FT H X 8-FT V SPACING. ESTIMATED PATTERN QUANTITY = 66. REFER TO SHEETS SB03 TO SB07 FOR ADDITIONAL SOIL NAIL DETAILS.
- MAP SYMBOL INSTALL NEW SOIL NAIL (ROWS 1 - 4), INCLUDING ALL SPECIFIED HARDWARE PER PLAN, TO A MINIMUM DEPTH OF 19 FEET, AT MAX 8-FT H X 8-FT V SPACING. ESTIMATED PATTERN QUANTITY = 22. REFER TO SHEETS SB03 TO SB07 FOR ADDITIONAL SOIL NAIL DETAILS.
- MAP SYMBOL INSTALL NEW SOIL NAIL (ROWS 5 - 8), INCLUDING ALL SPECIFIED HARDWARE PER PLAN, TO A MINIMUM DEPTH OF 13 FEET, AT MAX 8-FT H X 8-FT V SPACING. ESTIMATED PATTERN QUANTITY = 64. REFER TO SHEETS SB03 TO SB07 FOR ADDITIONAL SOIL NAIL DETAILS.
- INSTALL EROSION CONTROL MAT, TYPE: TENAX MULTIMAT 100 (OR EQUAL). ESTIMATED EROSION CONTROL MAT COVERAGE AREA = 9,800 SQ FT. NOTE: EROSION CONTROL MAT NOT SHOWN FOR CLARITY.
- MAP SYMBOL INSTALL HIGH-STRENGTH STEEL WIRE MESH, TYPE: GEOBRUGG TECO G65/4 OR EQUAL. ESTIMATED WIRE MESH COVERAGE AREA = 9,800 SQ FT.
- MAP SYMBOL INSTALL BOUNDARY STEEL WIRE ROPE CLASS 6X19 IWRC, MINIMUM 1/2-IN DIAMETER. ESTIMATED BOUNDARY ROPE LENGTH = 550 LF.
- PERFORM SOIL NAIL PROOF TESTS ON 10% OF SOIL NAILS. MINIMUM QUANTITY OF PROOF TESTS = 17.
- PERFORM SACRIFICIAL SOIL NAIL VERIFICATION TESTS. MINIMUM QUANTITY OF VERIFICATION TESTS = 3.
- PROPOSED SURVEY MONITORING POINT (REQUIRES PRIOR APPROVAL BY 3300 SUNSET BOULEVARD PROPERTY OWNER ATOP OF RETAINING WALL AT TOE OF SLOPE)

NOTES

- FOR IDENTITY SYMBOLS, LINE AND MATERIAL SYMBOLS. SEE SHEET G04. ALL STRUCTURES, IMPROVEMENTS, AND COMPONENTS OUTSIDE PROJECT AREA SHALL BE PROTECTED IN-PLACE DURING CONSTRUCTION.
- ALL BURIED AND OVERHEAD UTILITY LINES (SEWER, LADWP, TELECOMMUNICATION) ON THE PLAN ARE APPROXIMATE. UTILITY LINES NOT SHOWN ON THE PLAN SHALL BE FIELD VERIFIED BY THE PM/CONTRACTOR. CONTRACTOR SHALL POTHOLE AND/OR VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PER DIRECTION OF THE PM AND SHALL PROTECT ALL EXISTING. NOTIFY PM IMMEDIATELY OF ANY DISCREPANCIES OF UTILITY LINE IN LOCATION AND INTERFERENCE DURING CONSTRUCTION.
- THE ELEVATION VIEW IS A PROJECTED VIEW AND MAY NOT DEPICT ALL SOIL NAIL ANCHOR LOCATIONS AND QUANTITIES.

STATIONING		SOIL NAIL ANCHOR		SLOPE	
BEGIN STA.	END STA.	ROWS	MINIMUM EMBEDMENT	INCLINATION (FROM HORIZONTAL)	INCLINATION (FROM HORIZONTAL)
0+00	0+40	1-4	19-FT	25° - 30°	45° - 65°
0+41	1+75	1-4	29-FT	20°	70° - 75°
0+00	1+75	5-8	13-FT	50° - 60°	30° - 40°

THIS PLAN HAS BEEN REVIEWED BY THE BUREAU OF ENGINEERING, GEOTECHNICAL ENGINEERING DIVISION AND FOUND TO BE IN CONFORMANCE WITH OUR RECOMMENDATIONS IN THE REPORT(S)

DATED: 3/6/2025 AND 4/18/2025

GE 2948 *Easton To* 9/2/2025
RCE / GE DATE

GEOTECHNICAL ENGINEER STAMPS

SCHEDULE 1 NOTE

- SLOPE PROFILE B-B' LOCATED AT STA. 0+01
- SLOPE PROFILE A-A' LOCATED AT STA. 0+40
- SLOPE PROFILE C-C' LOCATED AT STA. 1+15

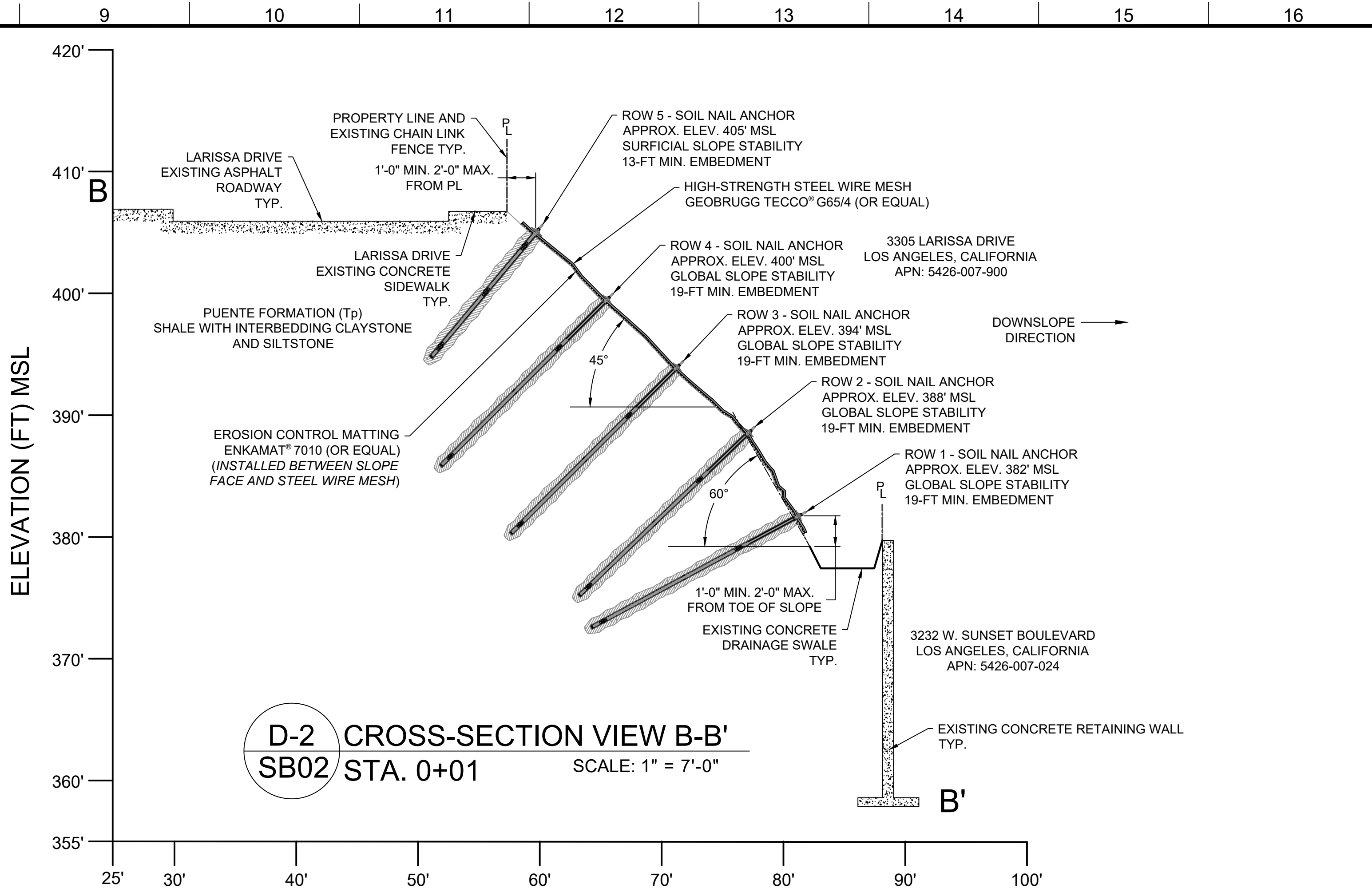
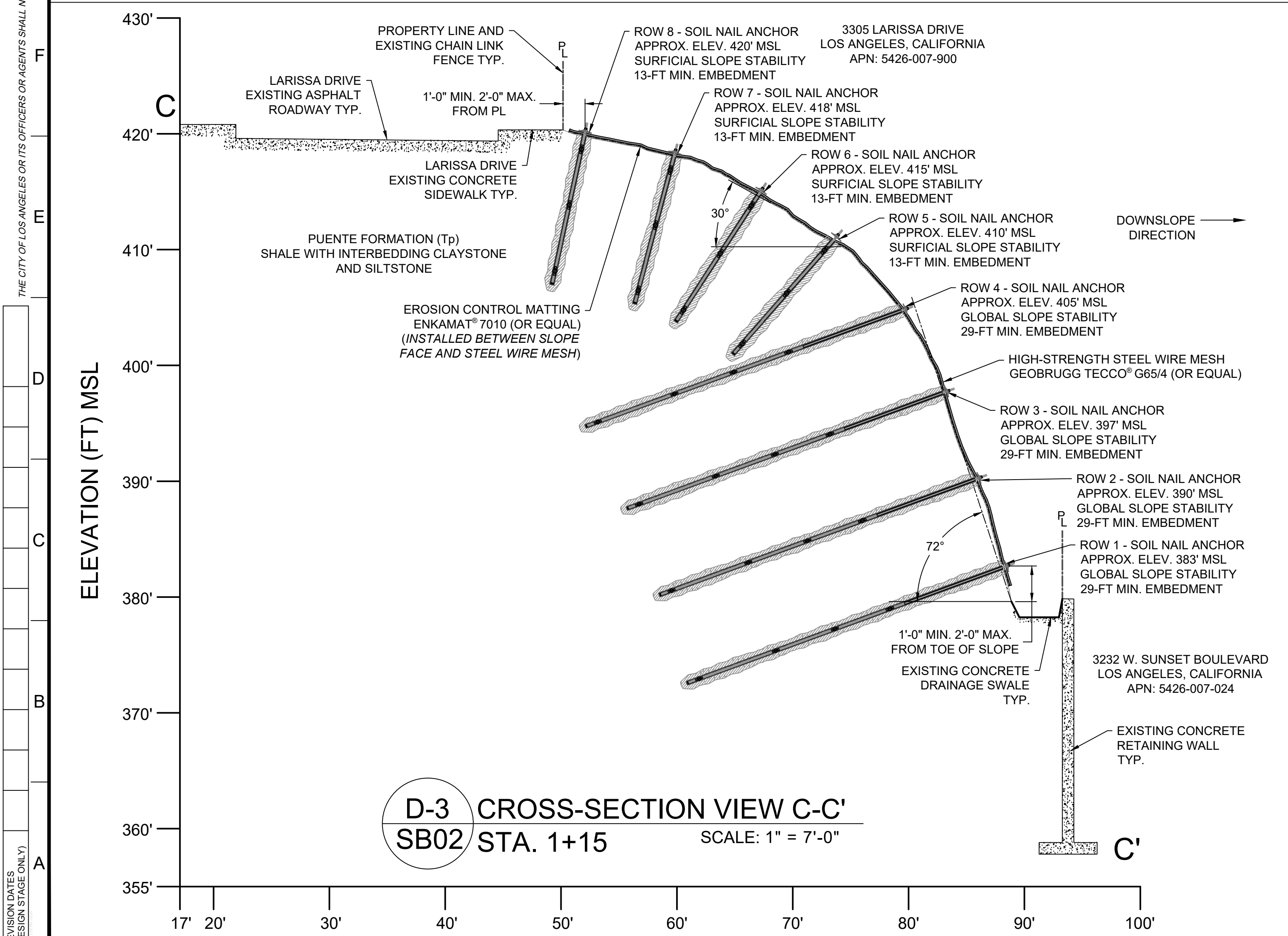
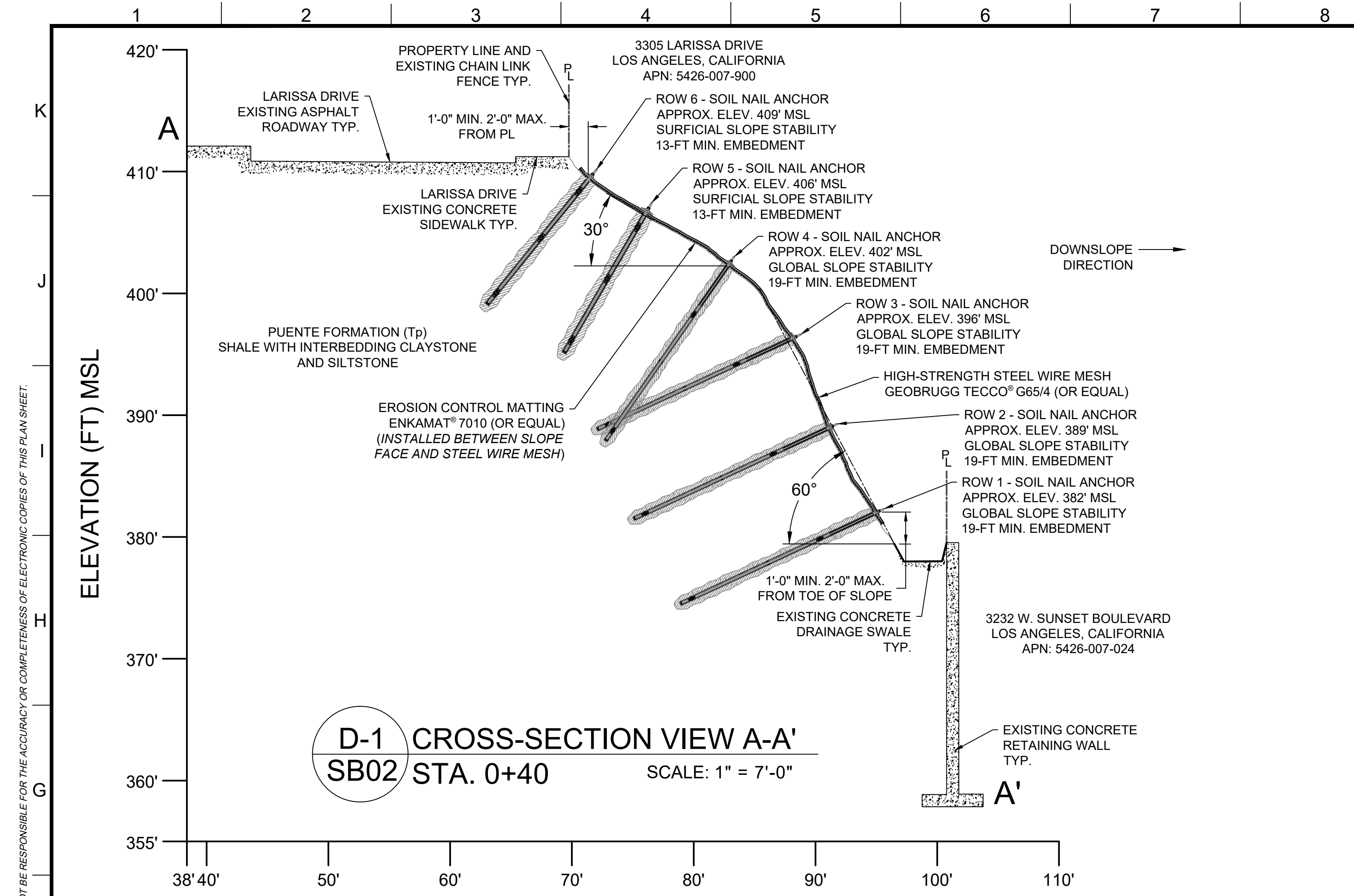
LADBS STAMPS

CITY ENGINEER
ALFRED MATA, P.E.
DESIGN GROUP
ENGINEER: WILLIAM F. KANE, P.E.
DESIGNED BY: WILLIAM F. KANE, P.E.
DRAWN BY: JOSEPH MCLELLANY
CHECKED BY: DANIEL ORRIS, C.E.G.
APPROVED BY: PATRICK SCHMIDT, P.E., G.E.

WORK ORDER NO. E1909217

SHEET NAME SB01

SHEET 13 OF 19 SHEETS



NOTES

UNLESS OTHERWISE SPECIFIED:

- INSTALL SOIL NAIL ANCHORS PERPENDICULAR TO SLOPE FACE.

SCHEDULE 1 - SOIL NAIL ANCHOR - INCLINATIONS					
STATIONING		SOIL NAIL ANCHOR			SLOPE
BEGIN STA.	END STA.	ROWS	MINIMUM EMBEDMENT	INCLINATION (FROM HORIZONTAL)	INCLINATION (FROM HORIZONTAL)
0+00	0+40	1-4	19-FT	25° - 30°	45° - 65°
0+41	1+75	1-4	29-FT	20°	70° - 75°
0+00	1+75	5-8	13-FT	50° - 60°	30° - 40°

SCHEDULE 1 NOTE

- SLOPE PROFILE B-B' LOCATED AT STA. 0+01
- SLOPE PROFILE A-A' LOCATED AT STA. 0+40
- SLOPE PROFILE C-C' LOCATED AT STA. 1+15

THIS PLAN HAS BEEN REVIEWED BY THE BUREAU OF ENGINEERING, GEOTECHNICAL ENGINEERING DIVISION AND FOUND TO BE IN CONFORMANCE WITH OUR RECOMMENDATIONS IN THE REPORT(S)

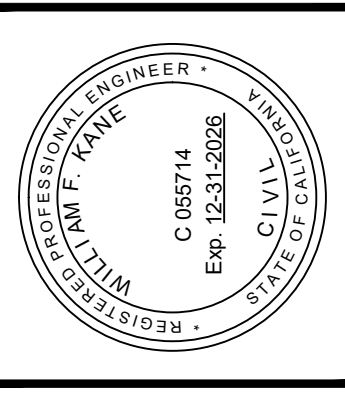
DATED: 3/6/2025 AND 4/18/2025

GE 2948 *Easton To* 9/2/2025
RCE / GE DATE

GEOTECHNICAL ENGINEER STAMPS



LADBS STAMPS



BUREAU OF ENGINEERING

VERTICAL CONTROL:	PROJECT:
HORIZONTAL CONTROL:	PROJECT:
SHEET TITLE:	PROJECT:
PROJECT:	PROJECT:
ADDRESS:	ADDRESS:

DEPARTMENT OF PUBLIC WORKS

DATE:	DATE:
NO.	NO.
REVISIONS:	REVISIONS:
INDEX NO.	INDEX NO.

CITY OF LOS ANGELES

CITY ENGINEER:	DESIGN GROUP:
ENGINEER:	ENGINEER:
DESIGNED BY:	DESIGNED BY:
DRAWN BY:	DRAWN BY:
CHECKED BY:	CHECKED BY:
APPROVED BY:	APPROVED BY:

WORK ORDER NO.
E1909217

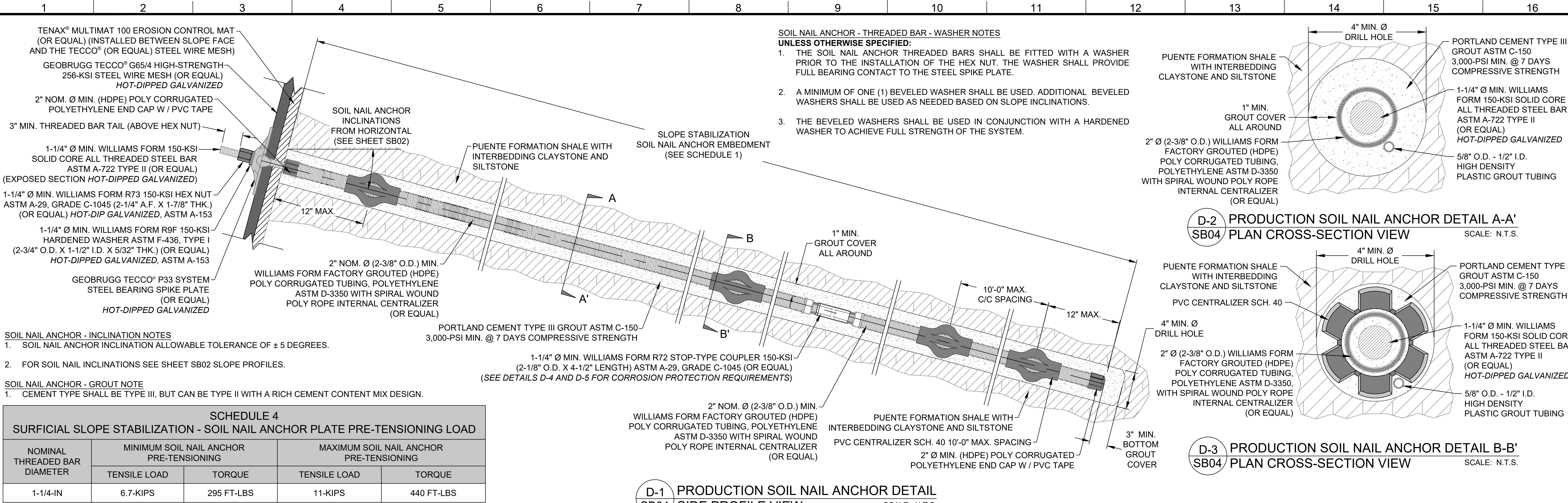
SHEET NAME
SB02
SHEET 14 OF 19 SHEETS

FILE PATH: \\2020KANESERVER\KANE GEOTECH FOLDER\KANE GEOTECH - PROJECTS\2024\KGT24-18 LARISSA DRIVE SLOPE MITIGATION\AUTOCAD DRAWINGS\SHEET 15 - SB03 SOIL NAIL PROOF AND VERIFICATION TESTING DETAILS DWG PLOT DATE: 8/28/2025 2:05 PM SAVED: 8/28/2025 2:05 PM SAVED BY: JOEY

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENCIES SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES
(DESIGN STAGE ONLY)

Sheet Version 4.0



SCHEDULE 1 SLOPE STABILIZATION - SOIL NAIL ANCHOR - DEPTHS					
SLOPE STABILIZATION PROFILE	APPROX. SOIL NAIL ANCHOR ROWS	APPROX. GLOBAL SLOPE STABILIZATION SOIL NAIL ANCHOR ELEVATIONS	GEOLOGIC SUBSURFACE MATERIAL	MINIMUM SOIL NAIL ANCHOR EMBEDMENT	ESTIMATED THREADED BAR STICK UP ABOVE SLOPE FACE
SLOPE PROFILE A-A'	1-4	382' TO 402'	PUENTE FORMATION SHALE WITH INTERBEDDING CLAYSTONE AND SILTSTONE	19-FT	20-FT
	5-6	406' TO 409'		13-FT	14-FT
SLOPE PROFILE B-B'	1-4	382' TO 400'		19-FT	20-FT
	5	405'		13-FT	14-FT
SLOPE PROFILE C-C'	1-4	383' TO 405'		29-FT	30-FT
	5-8	410' TO 420'		13-FT	14-FT

SCHEDULE 1 NOTES:

1. THE SOIL NAIL ANCHOR ROWS AND ELEVATIONS ARE SHOWN ON SHEET SB02.
2. THE ELEVATIONS SHOWN ARE BASED ON THE GEOLOGIC CROSS-SECTIONS SHOWN ON SHEET C101.
3. THE MINIMUM PRODUCTION SOIL NAIL ANCHOR DEPTHS SHOWN ARE BASED ON THE GLOBAL STABILITY TO ACHIEVE A MINIMUM STATIC AND PSEUDOSTATIC FACTOR OF SAFETY PER THE LEIGHTON GEOLOGIC AND GEOTECHNICAL ENGINEERING REPORT.

SCHEDULE 2 SLOPE STABILIZATION - SOIL NAIL ANCHOR - BOND STRENGTH AND PULLOUT RESISTANCE					
GEOLOGIC SUBSURFACE MATERIAL	MINIMUM SOIL NAIL ANCHOR DRILL HOLE DIAMETER	NOMINAL SOIL NAIL ANCHOR GROUT/BEDROCK BOND STRENGTH	(*) ALLOWABLE SOIL NAIL ANCHOR GROUT/BEDROCK BOND STRENGTH	NOMINAL SOIL NAIL ANCHOR PULLOUT RESISTANCE	(**) ALLOWABLE SOIL NAIL ANCHOR PULLOUT RESISTANCE
PUENTE FORMATION SHALE WITH INTERBEDDING CLAYSTONE AND SILTSTONE	4-IN	50-PSI	25-PSI	7.54-KIPS/FT	3.77-KIPS/FT

SCHEDULE 2 NOTES:

1. (*) ALLOWABLE SOIL NAIL ANCHOR GROUT/GROUND BOND STRENGTH INCLUDES A RESISTANCE REDUCTION FACTOR OF 2.0 PER FHWA GEC 007, 2015.
2. (**) ALLOWABLE SOIL NAIL ANCHOR PULLOUT RESISTANCE INCLUDES A RESISTANCE REDUCTION FACTOR OF 2.0 PER FHWA GEC 007, 2015.

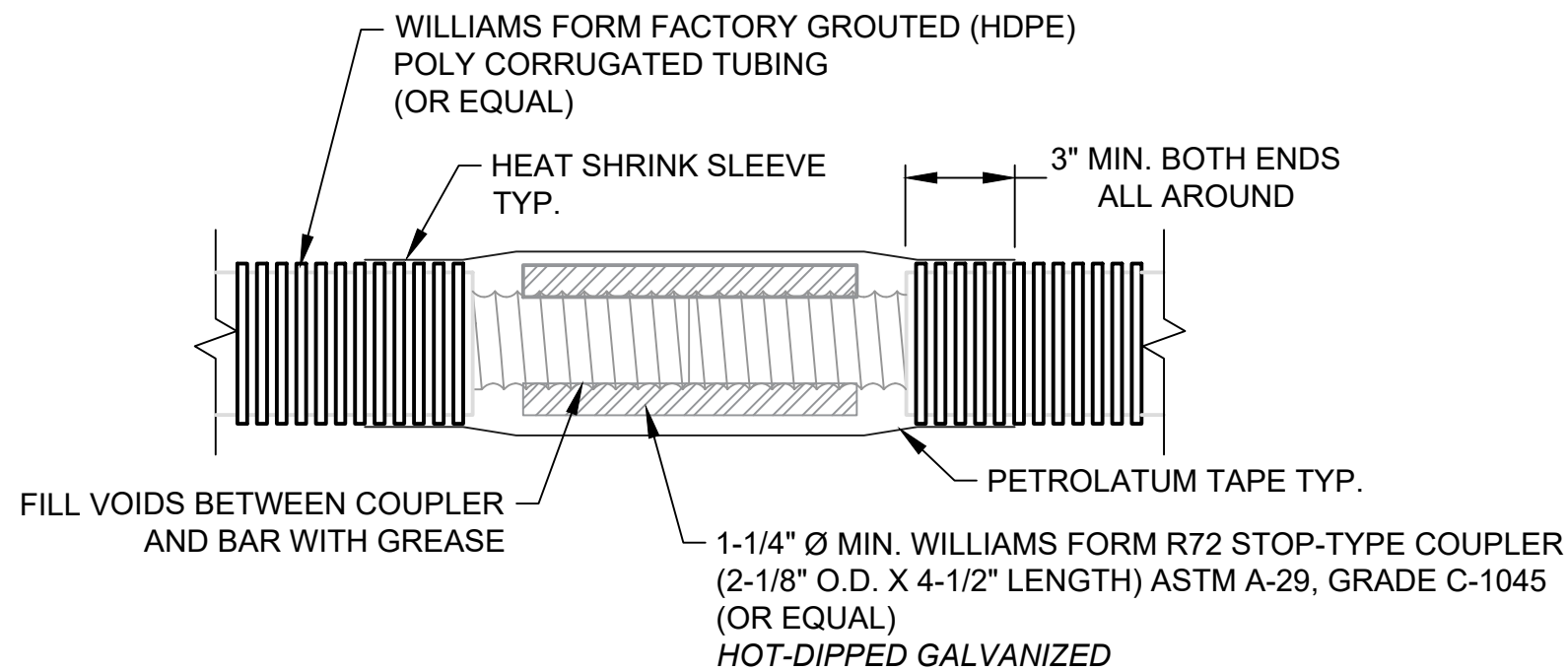
SCHEDULE 3 SLOPE STABILIZATION - SOIL NAIL ANCHOR - THREADED BAR STRENGTH							
NOMINAL THREADED BAR DIAMETER	MINIMUM THREADED BAR AREA THROUGH THREADS	MINIMUM THREADED BAR TENSILE YIELD STRESS	ULTIMATE THREADED BAR TENSILE STRESS	MINIMUM ULTIMATE TENSILE STRENGTH (GUTS)	80% OF GUTS	60% OF GUTS	(*) ALLOWABLE SHEAR STRENGTH
1-1/4-IN	1.25-SQ.IN.	120-KSI	150-KSI	188-KIPS	150-KIPS	113-KIPS	67.5-KIPS

SCHEDULE 3 NOTE:

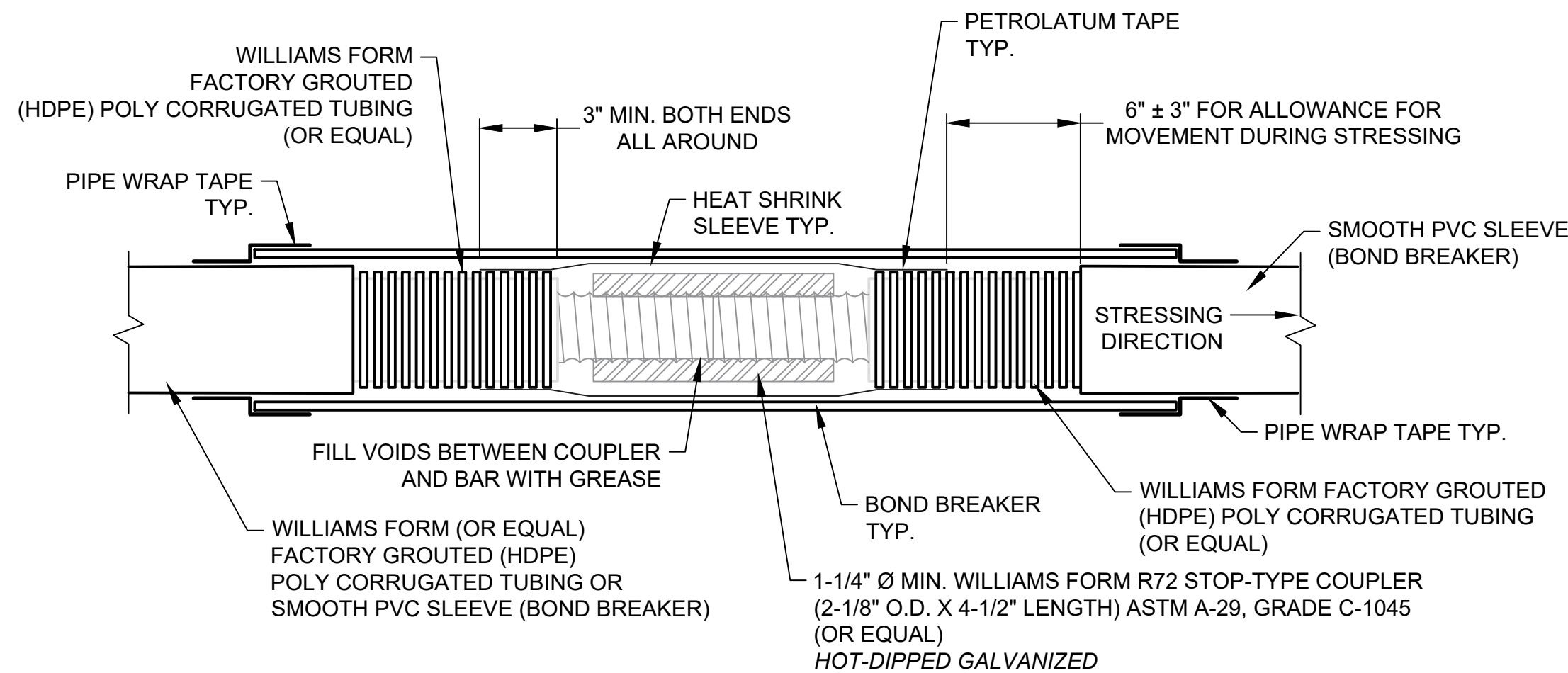
1. (*) THE ALLOWABLE THREADED BAR SHEAR STRENGTH. SEE REFERENCED CALCULATION REPORT FOR THE NOMINAL SHEAR STRENGTH CAPACITY AND STRENGTH REDUCTION FACTORS.

D-1 PRODUCTION SOIL NAIL ANCHOR DETAIL SB04 SIDE PROFILE VIEW SCALE: N.T.S.

SOIL NAIL ANCHOR - THREADED BAR - COUPLER



D-4 COUPLER IN BONDED LENGTH, CLASS I PROTECTION SB04 SECTIONAL VIEW SCALE: N.T.S.

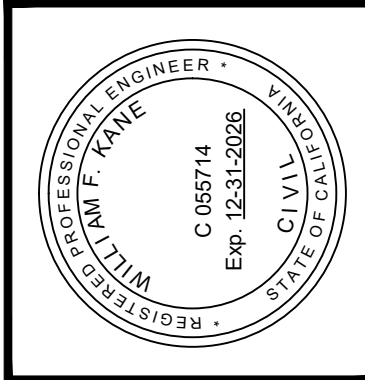
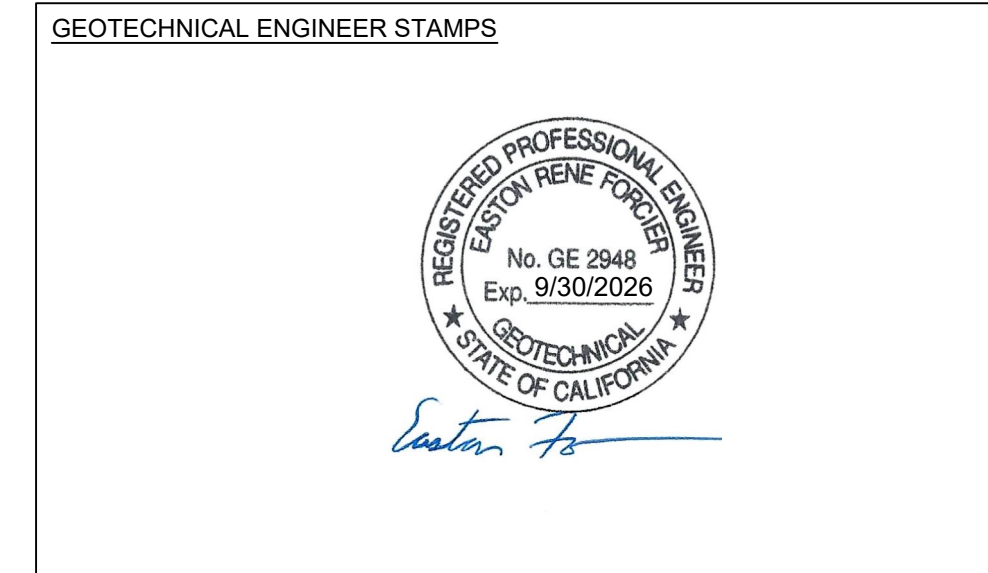


D-5 COUPLER IN FREE STRESSING LENGTH, CLASS I PROTECTION SB04 SECTIONAL VIEW SCALE: N.T.S.

THIS PLAN HAS BEEN REVIEWED BY THE BUREAU OF ENGINEERING, GEOTECHNICAL ENGINEERING DIVISION AND FOUND TO BE IN CONFORMANCE WITH OUR RECOMMENDATIONS IN THE REPORT(S)

DATED: 3/6/2025 AND 4/18/2025

GE 2948 *Easton* 9/2/2025
RCE / GE DATE



THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING

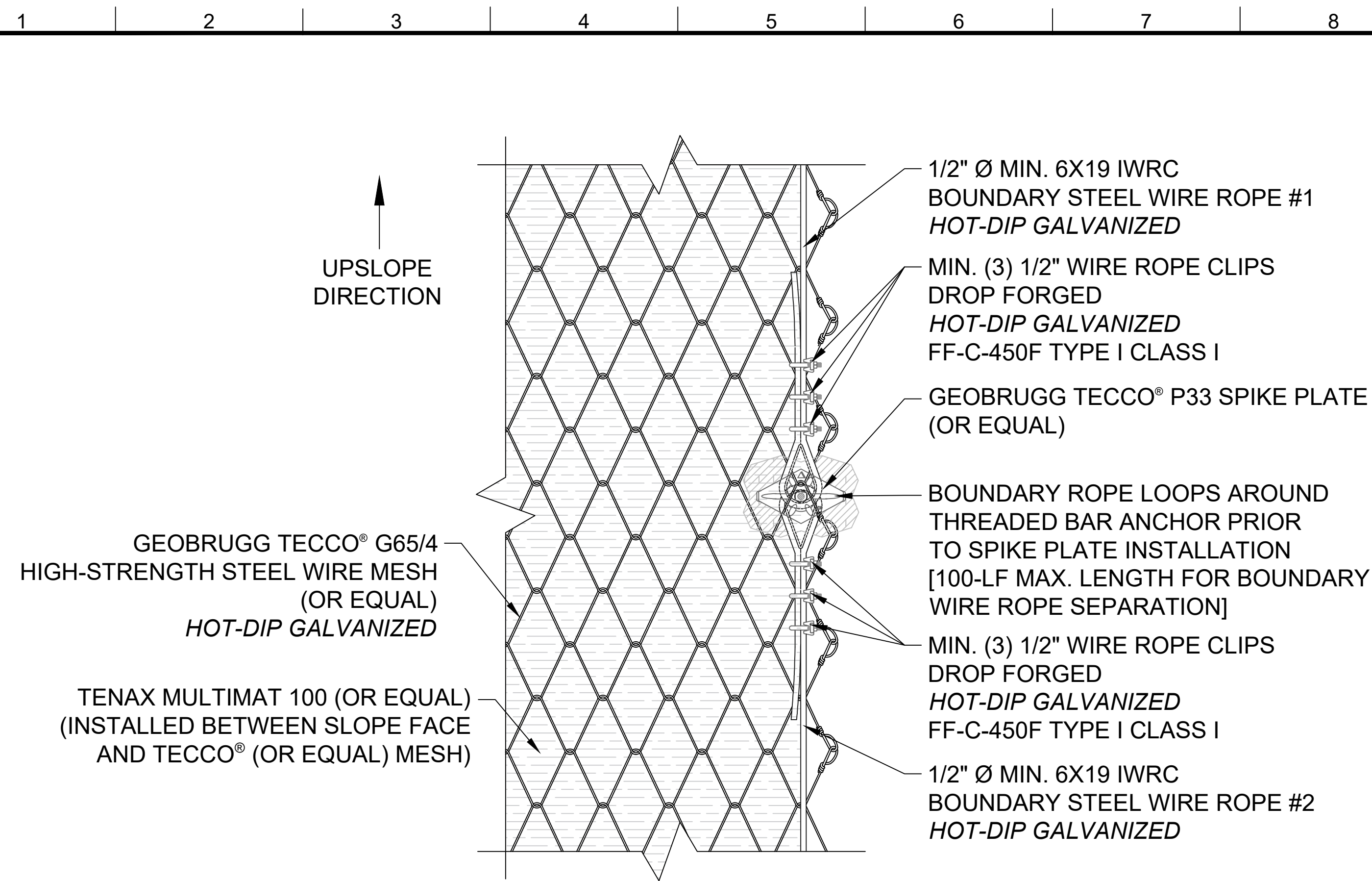
DEPARTMENT OF PUBLIC WORKS

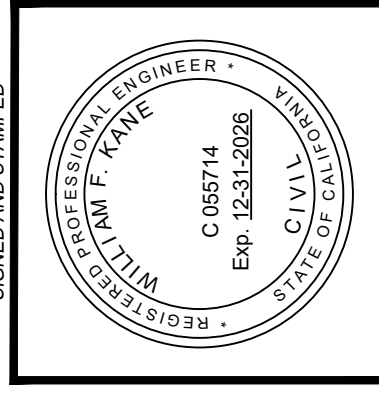
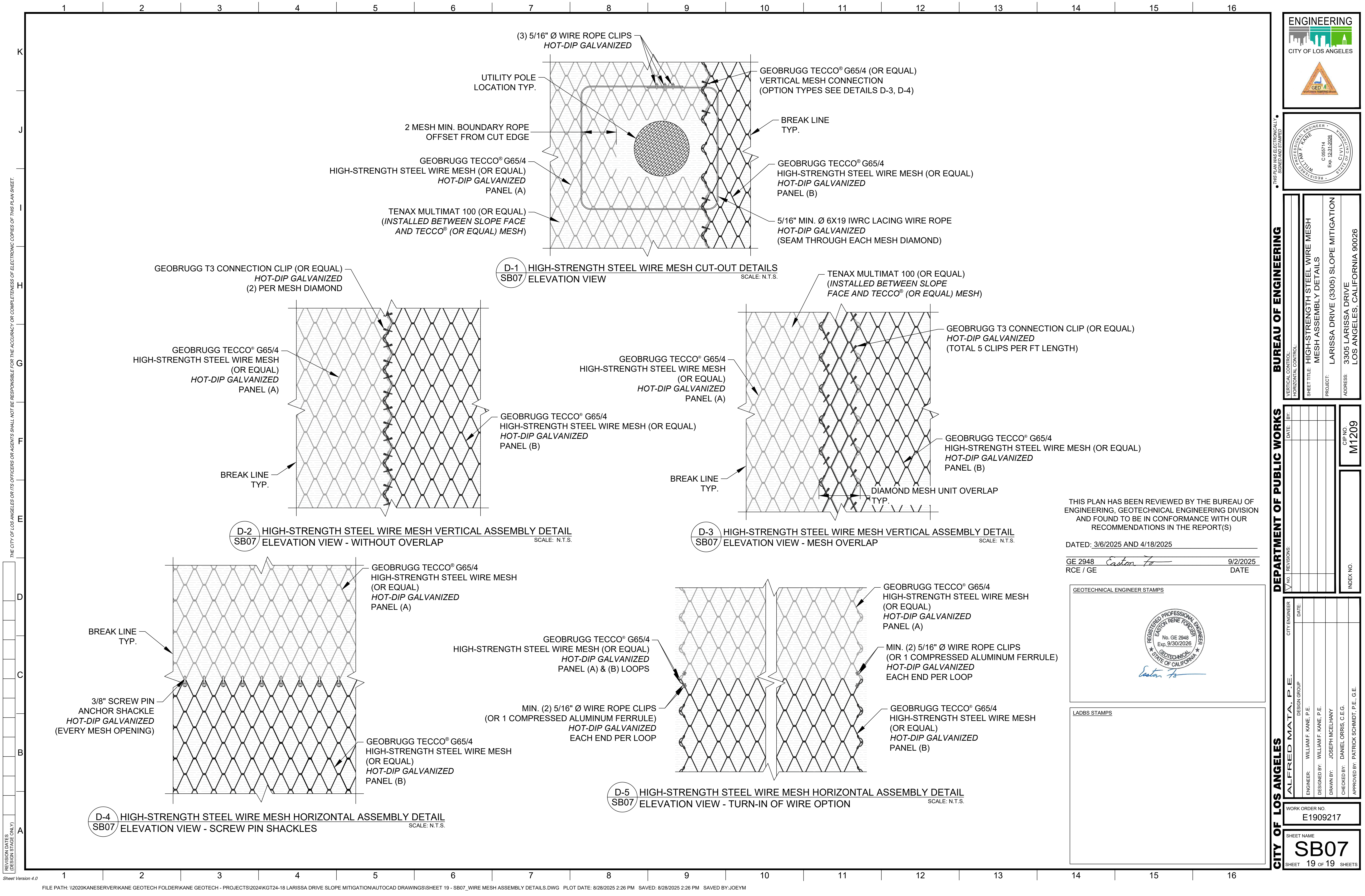
CITY OF LOS ANGELES

SHEET TITLE: SOIL NAIL PRODUCTION DETAILS
PROJECT: LARISSA DRIVE (3305) SLOPE MITIGATION
ADDRESS: 3305 LARISSA DRIVE
LOS ANGELES, CALIFORNIA 90026

CIP NO. M1209

INDEX NO.





THIS PLAN WAS ELECTRONICALLY
SIGNED AND STAMPED

BUREAU OF ENGINEERING

VERTICAL CONTROL:	HIGH-STRENGTH STEEL WIRE MESH
HORIZONTAL CONTROL:	MESH ASSEMBLY DETAILS
SHEET TITLE:	LARISSA DRIVE (3305) SLOPE MITIGATION
PROJECT:	3305 LARISSA DRIVE
ADDRESS:	LOS ANGELES, CALIFORNIA 90026

DEPARTMENT OF PUBLIC WORKS

DATE:	
BY:	
NO.	
REVISIONS:	
CIP NO.	M1209
INDEX NO.	

CITY OF LOS ANGELES


CITY ENGINEER	ALFRED MATA, P.E.
DESIGN GROUP	ENGINEER: WILLIAM F. KANE, P.E. DESIGNED BY: WILLIAM F. KANE, P.E. DRAWN BY: JOSEPH MCLEHANY CHECKED BY: DANIEL ORRIS, C.E.G. APPROVED BY: PATRICK SCHMIDT, P.E., G.E.

WORK ORDER NO.
E1909217

SHEET NAME
SB07
SHEET 19 OF 19 SHEETS

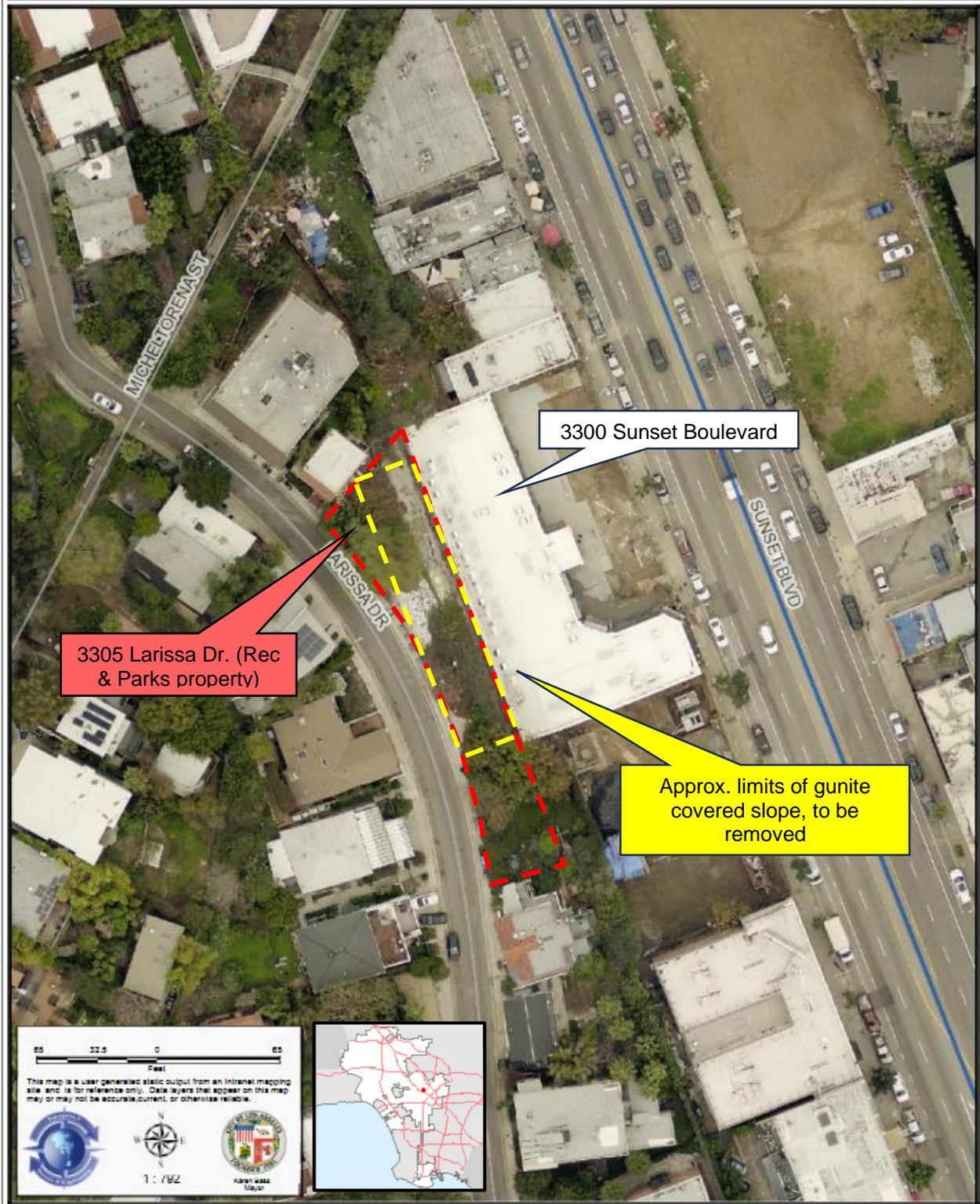
CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
1149 S. BROADWAY, 7th FLOOR
LOS ANGELES, CALIFORNIA 90015
CALIFORNIA ENVIRONMENTAL QUALITY ACT
NOTICE OF EXEMPTION
(Articles II and III – City CEQA Guidelines)

COUNTY CLERK'S USE

Submission of this form is optional. The form shall be filed with the County Clerk, 12400 E. Imperial Highway, Norwalk, California, 90650 and with the State Clearinghouse in the Governor's Office of Land Use and Climate Innovation, if filed with the County Clerk, pursuant to Public Resources Code Section 21152(b). Pursuant to Public Resources Code Section 21167(d), the filing of this notice starts a 35-day statute of limitations on court challenges to the approval of the project.			
LEAD CITY AGENCY AND ADDRESS: City of Los Angeles c/o Bureau of Engineering 1149 S. Broadway, 6th Floor Los Angeles, CA 90015			COUNCIL DISTRICT 13
PROJECT TITLE: Larissa Drive (3305) Slope Mitigation (W.O. E1909217 / CIP No. M1209)			LOG REFERENCE
PROJECT LOCATION: 3305 Larissa Drive, in the Silver Lake - Echo Park - Elysian Valley Community Plan Area of the City of Los Angeles. See <i>Figure 1: Project Location</i> . T.G. Page 594, Grid C6			
DESCRIPTION OF NATURE, PURPOSE, AND BENEFICIARIES OF PROJECT: The Larissa Drive (3305) Slope Mitigation project (Project) consists of demolishing what remains of the gunite slope covering and replacing it with a high-strength steel wire mesh to mitigate slope erosion. The distressed and damaged condition of the existing gunite covering is no longer effectively mitigating erosion. This makes it susceptible to further failure which may result in falling debris, threatening the safety of pedestrians and damage to the private property at the base of the slope at 3300 Sunset Boulevard. This Project intends to eliminate such hazards through the installation of rock anchors and a wire mesh system to hold loose rocks in place and provide slope reinforcement. Project beneficiaries include adjacent property owners/occupants, pedestrians, and motorists traveling through this area because it will improve public safety. Please see the Project description continuation in the narrative for more details. On July 11, 2025, the Bureau of Engineering issued 100% Project design plans.			
CONTACT PERSON Alondra Gallegos		CONTACT INFORMATION alondra.gallegos@lacity.org	
EXEMPT STATUS: CATEGORICAL EXEMPTION*		CITY CEQA GUIDELINES STATE CEQA GUIDELINES	Art. III, Sec. 1 Class 1 Cat. 3, 4 Sec. 15301 (c) (d)
* See Public Resources Code Sec. 21080 and set forth state and city guidelines provisions.			
JUSTIFICATION FOR PROJECT EXEMPTION: This Project is exempt from the California Environmental Quality Act (CEQA) pursuant to State CEQA Guidelines Article 19, Section 15301 <i>Existing Facilities</i> Class 1(c)(d). Additionally, the Project is exempt pursuant to <i>Los Angeles CEQA Guidelines</i> Article III, Section 1, Class 1, <i>Existing Facilities</i> Categories 3 and 4. <i>None of the limitations set forth in State CEQA Guidelines 15300.2 apply (see attached narrative).</i>			
IF FILED BY APPLICANT, ATTACH CERTIFIED DOCUMENT OF EXEMPTION FINDING			
SIGNATURE:  box SIGN 4QZZVP21-1X228JRV Maria Martin		TITLE: Environmental Affairs Officer Environmental Management Group	DATE: Aug 5, 2025
FEE: \$75.00	RECEIPT NO.	REC'D BY	DATE

DISTRIBUTION: (1) COUNTY CLERK, (2) STATE CLEARINGHOUSE, (3) AGENCY RECORD

Figure 1: Project Location



CATEGORICAL EXEMPTION NARRATIVE

I. DESCRIPTION OF NATURE, PURPOSE, AND BENEFICIARIES OF PROJECT, CONTINUED

The Project site at 3305 Larissa Drive consists of a 30- to 40-foot-high steep slope with a history of slope mitigation improvement projects. In 2022, the gunite slope covering, which was installed in the 1960's, became distressed and extensively cracked, therefore no longer serving as an effective slope mitigation structure. This Project would remove the remaining portions of the failing gunite slope covering and replace it with the installation of a high-tensile steel wire mesh on the slope face. Approximately 300 to 400 cubic yards of loose soil, vegetation, bedrock, and existing concrete debris would be hauled away and disposed of into a green disposal facility. The high-tensile steel mesh system, which is similar in appearance to chain-link, would be anchored to the slope face using soil nails and/or rock anchors, similarly, to as shown in *Photo 1*. The Anchored Mesh Slope Stabilization System (AMSSS) shall be installed solely within the Project site, will be approximately 175 feet in length, and will cover a majority of the existing slope.



Photo 1: Proposed rock anchored mesh system depiction.

The construction period for the proposed improvements would be approximately seven months and is anticipated to begin spring of 2026 to summer 2026. The Project would be constructed in accordance with the latest edition of the temporary traffic control provisions of the California Manual on Uniform Traffic Control (CA MUTCD), the Work Area Traffic Control Handbook (WATCH), and any traffic control requirements required by the Los Angeles Department of Transportation (LADOT). Construction crews are required to coordinate with schools and LADOT accordingly to provide flagmen when any mode of transportation (e.g., pedestrian, bicycle, automobile) is altered. Potential traffic lane closures are currently unknown. However, if any lane closures were required, the Project shall comply with any previously referenced regulations and the Bureau of Engineering (BOE) Master Specifications to minimize any potential impacts.

Unless otherwise stated, the proposed Project would be designed, constructed and operated following all applicable laws, regulations, ordinances and formally adopted City standards including but not limited to:

- City of Los Angeles Municipal Code (LAMC)
- Bureau of Engineering Standard Plans
- Standard Specifications for Public Works Construction “Greenbook,”
- City of Los Angeles Department of Public Works Additions and Amendments to the 2021 Edition of the Standard Specifications for Public Works Construction
- Work Area Traffic Control Handbook
- California Manual on Uniform Traffic Control

II. PROJECT HISTORY

The vacant property at 3305 Larissa Drive is owned and maintained by the City of Los Angeles Department of Recreation and Parks (RAP). The site consists of an approximately 30- to 40-foot-high steep slope that descends eastwardly from the back of the sidewalk along Larissa Drive towards the private property at 3300 Sunset Boulevard. According to geologic mapping by the Geotechnical Engineering Division (GED), the slope is underlain by relatively weak, weathered, and fractured bedrock. Previous investigations near the site show the bedrock has a consistent northwest-southeast strike and dip orientation (15 to 23 degrees to the northeast), representing an out of slope bedding condition. This has an adverse impact on the gross stability of the slope.

The east side of the Project site is bordered by an approximately 8- to 14-foot-high retaining wall, and the northern portion of the wall serves as the rear exterior wall for the private property at 3300 Sunset Boulevard. The southern portion of the wall extends along the back of the parking lot associated with the private development. There is also a concrete-lined drainage ditch between the top of the rear building wall and the toe of the gunite-covered portions of the Project site. The drainage ditch, which is designed to collect runoff from the site and convey it via storm drainpipes to Sunset Boulevard, is to remain in place.

In the 1960's, the northern and middle portion of the slope was covered and improved with gunite to mitigate erosion from the steep slope. The gunite ranges from 3 to 12 inches in thickness and was constructed without an anchoring system. In 2022, the gunite slope covering became distressed and extensively cracked. In the southern portion, an area of approximately 50 feet in width and 15 to 20 feet in height of the gunite covering failed and shifted toward 3300 Sunset Boulevard (see *Photo 2*). The failed section had positioned itself in the concrete lined drainage ditch along the base of the slope and above the building. An approximately 3.5-foot-wide gap had developed between the face of the slope and the back of the gunite slab in the failed area. The failed portions were subsequently removed, however, some gunite was left in place to be removed in a subsequent project (see *Photo 3*).

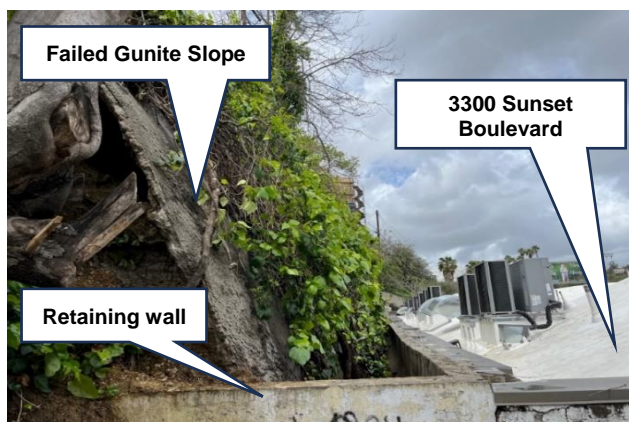


Photo 2: Failed southern portion of gunite slope that shifted toward the 3300 Sunset Boulevard



Photo 3: Standing on the roof of 3300 Sunset Boulevard looking west towards the Project site. This photo was taken on December 12, 2023, during demolition and removal of the failed portions of gunite. Note the remaining gunite in the Northern portion of the Project Site

III. ENVIRONMENTAL REVIEW

A. Basis for Categorical Exemption

This Project is exempt from CEQA pursuant to State CEQA Guidelines Article 19, Section 15301, *Existing Facilities*, Class 1(c) and (d). The scope of work consists of the removal of an existing gunite slope covering and the installation of a new anchored mesh system made of high-strength steel wire and soil nails or rock anchors. This exemption applies because the Project consists of the repair and minor alteration of existing facilities, including streets and similar structures, that do not create additional automobile lanes, and the restoration or rehabilitation of deteriorated or damaged structures and facilities to meet current standards of public health and safety. The Project would serve to protect adjacent public and private properties and infrastructure and involves negligible or no expansion of use.

Additionally, the Project is exempt pursuant to Los Angeles CEQA Guidelines Article III, Section 1, Class 1, *Existing Facilities*, Categories 3 and 4, for the maintenance and rehabilitation of existing deteriorated structures to meet current standards of public health, safety, and environmental protection. This exemption applies because the Project consists of the replacement of a failing erosion control structure to meet current City standards of public health and safety.

B. Consideration of Potential Exceptions to use of a Categorical Exemption

The State CEQA Guidelines (CCR Sec 15300.2) limit the use of categorical exemptions in the following circumstances:

1. Location. Exemption Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located – a project that is ordinarily insignificant in its impact on the environment may be significant in a particularly sensitive environment. Therefore, these classes are considered to apply in all instances, except where the project may impact on an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies.

This Project is exempt from CEQA pursuant to State CEQA Guidelines Article 19, Section 15301 *Existing Facilities* Class 1(c)(d) for the installation of a new anchored mesh system to replace a failing erosion control structure to protect existing adjacent public and private properties and infrastructure, as well as enhancing public safety. Therefore, this exception does not apply.

2. Cumulative Impact. This exception applies when, although a project may not have a significant impact, the cumulative impact of successive projects of the same type in the same place over time is significant.

The stability repairs at this site have taken place over the years. However, this Project would remove the existing slope repairs at the site, which have become damaged, and replaced them with the installation of a wire mesh that is anticipated to last for approximately 50 to 60 years. No subsequent projects of the same nature are scheduled to occur successive to, or in the same place as this Project. Given the nature of the Project, it is not anticipated to result in a cumulative impact when included with successive projects in the same place and overtime. Therefore, this exception does not apply to this Project.

3. Significant Effect. This exception applies when, although the project may otherwise be exempt, there is a reasonable possibility that the project would have a significant effect due to unusual circumstances.

Biological Resources

The Project proposes the construction of an anchored mesh system for erosion control and to provide lateral support to a hillside. No trees are expected to be removed. Minimal clearing of vegetation in the construction area may be required during installation of the mesh wire structure. This includes low height weeds, grass, and ivy ground cover. A couple of remnant tree stumps on the slope also require removal.

A search on the California Natural Diversity Database (CNDDDB) was performed on May 8, 2025. According to the CNDDDB species search, the Project location is within a half mile radius of two sensitive species, the southwestern willow flycatcher (*Empidonax traillii extimus*) and the burrowing owl (*Athene cunicularia*). The Project seeks to repair a slope in a previously developed urban area with no suitable habitat for either species. No impacts to sensitive species and biological resources are expected from the Project. Therefore, this exception does not apply to this Project.

Geology/Soils – Hillside Grading Area/Special Grading Area

Various sites are within a designated hillside grading area, an area regulated under the LAMC Sections 12.03, 12.21, 12.21.1, 12.23, and 12.27, which govern the development of hillside lots for new construction, additions, and remodeling. Specific requirements regarding height, front and side yards, fire protection, lot coverage, parking street access, sewer connections, and grading are all defined and enforced under the above-mentioned LAMC sections. Hillsides in the City are required to adhere to the building codes and requirements. Designated hillsides include the northeast, northern city limits of the North Valley, Santa Monica Mountains to the west, Echo Park / Silver Lake, Griffith Park, Atwater Village, Mount Washington, Hollywood Hills in the central portions of the city, Baldwin Hills and Playa del Rey / Playa Vista towards Los Angeles International Airport, and San Pedro to the southernmost limits.

The proposed Project is composed of the installation of a new anchored mesh system to replace a failing erosion control structure to protect existing, adjacent public and private properties and infrastructure and to meet current standards of public health and safety. Minor erosion control projects are common in the City and throughout areas deemed to be within the hillside grading area, as such this installation are not unusual circumstances. The Project would not potentially result in or increase vulnerability to damage caused by construction in the hillside areas and there is no reasonable possibility that the Project would have a significant effect due to unusual circumstances. Therefore, this exception does not apply to this Project.

Traffic and Transportation

The Project would be constructed in accordance with the latest edition of the temporary traffic control provisions of the CA MUTCD, WATCH, and any traffic control requirements required by LADOT. Construction crews are required to coordinate with schools and LADOT as needed to provide flagmen when altering modes of transportation (e.g., pedestrian, bicycle, automobile). The Project shall comply with any previously referenced regulations and the BOE Master Specifications. For this Project, the contractor would not close Larissa Drive overnight and would make arrangements for vehicles that need to pass through.

Installation and erosion control projects like this Project occur within the public right-of-way throughout the City of Los Angeles and as such, this is not an unusual circumstance. No reasonable possibility has been identified that the Project would have a significant effect due to unusual circumstances. Therefore, this exception does not apply to this Project.

4. Scenic Highway. A categorical exemption shall not be used for a project which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway.

The proposed Project is not within a state designated scenic highway or within sight of any state designated scenic highway. Therefore, this exception does not apply to this Project.

5. Hazardous Waste Site. This exception applies when a project is located on a site listed as a hazardous waste site under Government Code Section 65962.5.

As of May 8, 2025, the State Department of Toxic Substances Control (DTSC) (EnviroStor database at www.envirostor.dtsc.ca.gov) and the California Regional Water Quality Control Board (RWQCB) (GeoTracker database at <https://geotracker.waterboards.ca.gov/>) have not listed the Project site as a hazardous waste site under Government Code Sections 65962.5. Two locations within 1000 feet of the Project have previously been listed as LUST cleanup sites but have since been closed. Therefore, this exception does not apply.

6. Historical Resources. This exception applies when a project may cause a substantial adverse change in the significance of a historical resource.

The Project would occur within areas previously disturbed by grading, installation of asphalt concrete pavement, and public utilities. The Project scope of work does not anticipate excavation into undisturbed soils. As discussed in Section I above, encountering cultural or historical resources is not anticipated. Therefore, this exception does not apply to this Project.

IV. REFERENCES

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City of Los Angeles Municipal Code. <https://lacity.gov/government/city-charter-rules-and-codes>

Public Resources Code, Div. 13, Sections 21000-21189 (CEQA), available from <http://leginfo.legislature.ca.gov/>