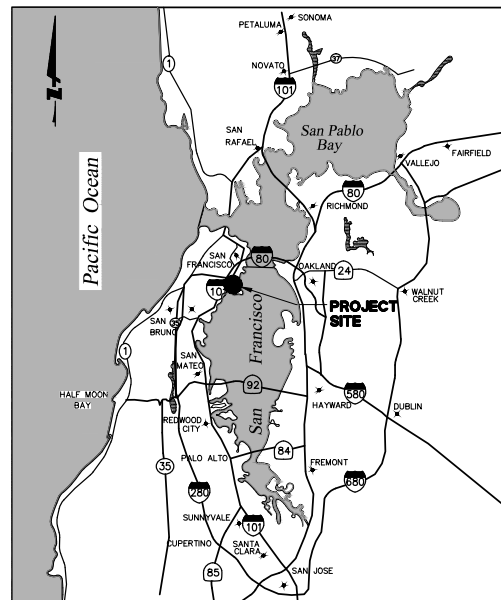


# BAY TRAIL EXTENSION IMPROVEMENTS FOR 1000 MARINA BOULEVARD

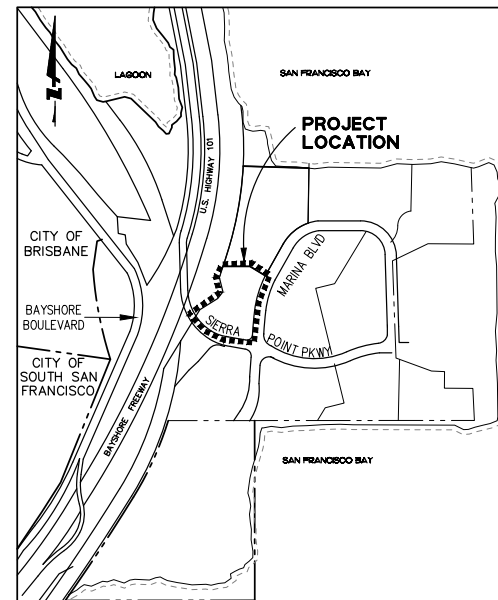
CITY OF BRISBANE SAN MATEO COUNTY CALIFORNIA

**DRAWING INDEX**

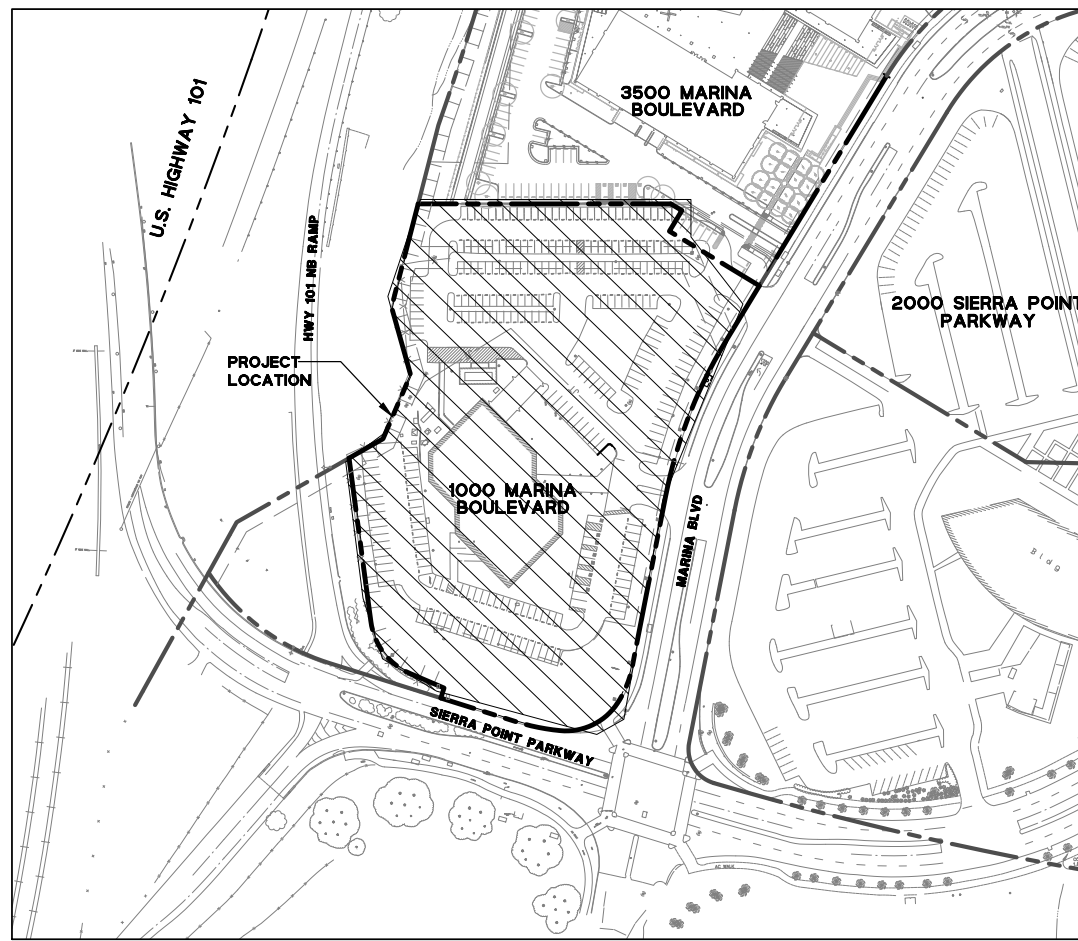
DRAWING NO	DESCRIPTION
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C0.0	TITLE SHEET
C0.1	NOTES, LEGEND, AND ABBREVIATIONS
C1.0	EXISTING CONDITIONS PLAN
C1.1	EXISTING CONDITIONS PLAN
C2.0	DEMOLITION PLAN
C2.1	DEMOLITION PLAN
C3.0	SITE PLAN
C3.1	SITE PLAN
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C4.1	GRADING PLAN
C4.2	BAY TRAIL PLAN AND PROFILE
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C6.0	EROSION CONTROL PLAN
C6.1	EROSION CONTROL PLAN
C6.2	EROSION CONTROL DETAILS
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C7.0	DETAILS
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L0.10	LANDSCAPE ILLUSTRATIVE SITE PLAN
L0.20	SHEET KEY PLAN
L0.5.00	ARBORIST ASSESSMENT REPORT
L0.5.01	ARBORIST ASSESSMENT REPORT
L0.5.02	ARBORIST ASSESSMENT REPORT
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L0.6.00B	TREE PROTECTION AND REMOVAL SCHEDULE
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L1.5.01	LANDSCAPE IRRIGATION PLAN-AREA 1
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L1.5.03	IRRIGATION NOTES AND LEGEND
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L8.1.1	DETAILS - PAVING
L8.1.2	DETAILS - PAVING
L8.4.1	DETAILS - HEADERS
L8.4.2	DETAILS - GUARDRAILS AND FENCE
L8.7.1	DETAILS - PLANTING
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L8.7.3	DETAILS - PLANTING
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S2.0	SITE PLAN
S4.0	TYPICAL CONCRETE DETAILS
S4.1	FOUNDATION AND RETAINING WALL DETAILS
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E0.1	SYMBOL LIST, GENERAL NOTES, AND SHEET INDEX
E0.2	LUMINAIRE SCHEDULE AND DETAIL
E0.3	OUTDOOR TITLE 24 COMPLIANCE FORMS
E0.4	OUTDOOR TITLE 24 COMPLIANCE FORMS
E1.1	SITE PHOTOMETRIC PLAN - LIGHTING
E2.1	SITE PLAN NORTH LIGHTING
E2.2	SITE PLAN SOUTH LIGHTING
E3.1	SPECIFICATIONS



VICINITY MAP  
NO SCALE



LOCATION MAP  
NO SCALE



SITE MAP  
SCALE: 1"=100'

**PROJECT BENCHMARK**

MAG NAIL SET IN AC CURB 75' NORTH OF DRIVEWAY TO 1000 MARINA BOULEVARD ALONG THE NORTHWEST EDGE OF MARINA BOULEVARD AND 15' NORTHEAST OF CATCH BASIN.  
ELEVATION = 17.82' (NAVD - GPS-DERIVED)

**OWNER/DEVELOPER**

PHASE 3 REAL ESTATE PARTNERS  
CONTACT: KYLE MARRS  
PROJECT MANAGER  
P.O. BOX 927729  
SAN DIEGO, CA 92192

**SITE INFORMATION:**

PROJECT ADDRESS: 1000 MARINA BOULEVARD, BRISBANE, CA 94005  
APN: 007165210  
TOTAL SITE AREA: 192127.83 SF  
TOTAL AREA DISTURBED: (40606.36 SF ≈ 0.93 ACRES)

**ENGINEER'S STATEMENT**

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED BY ME OR UNDER MY DIRECTION IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICE.

*Thomas R. Morse*  
BKF ENGINEERS  
THOMAS R. MORSE  
VICE PRESIDENT

01/17/2023  
DATE



1000 MARINA BOULEVARD  
TITLE SHEET

SAN MATEO COUNTY

CITY OF BRISBANE

CALIFORNIA

No.	Revisions
4	PLAN CHECK RESPONSE 4
3	PLAN CHECK RESPONSE 3
1	PLAN CHECK RESPONSE

Date: 08/24/2022  
Scale: 1"=20'  
Design: AR  
Drawn: AR  
Approved: LKY  
Job No: 20170365-11

Drawing Number:  
**C0.0**

DRAWING NAME: \\BKF-cv\vol14\2017\170365\_3000\_Mar.ino\ENG\1000\_Mar.ino\CD\PLOTS\CO.0 TITLE SHEET.dwg  
PLOT DATE: 01-13-23  
PLOTTED BY: monu

GENERAL NOTES

I. REFERENCE DOCUMENTS

- 1. SIERRA POINT BUSINESS CENTER DEVELOPMENT STANDARDS DATED 2001.
2. CITY OF BRISBANE STANDARD DETAILS.
3. CALTRANS STANDARD PLANS AND SPECIFICATIONS, LATEST EDITION.
4. SUPPLEMENTAL RECOMMENDATIONS FOR BAY TRAIL EXTENSION, 1000 MARINA BOULEVARD, PREPARED BY LANGAN, DATED AUGUST 12, 2022.

II. GENERAL NOTES

- 1. THE TERM "STANDARDS", WHERE USED IN THESE DRAWINGS, SHALL REFER TO THE DEVELOPMENT STANDARDS REFERENCED ABOVE.
2. THIS PROJECT IS LOCATED WITHIN THE JURISDICTION OF THE CITY OF BRISBANE. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING PERMITS, ARRANGING INSPECTIONS AND COMPLYING WITH ALL APPLICABLE REGULATIONS OF THIS CITY AS REQUIRED BY THE CITY.
3. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING REQUIRED INSPECTIONS BY THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVES. NO DELAY OF WORK CLAIM WILL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO ARRANGE FOR CITY INSPECTION IN ADVANCE.
4. ALL REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED IN WRITING BY THE ENGINEER, WHO WILL OBTAIN APPROVAL FROM THE CITY ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED ITEMS.
5. CONTRACTOR WILL CONFIRM LOCATIONS OF EXISTING UTILITIES. CONTRACTOR WILL REPLACE OR REPAIR, AT THEIR OWN EXPENSE, ALL DAMAGED, REMOVED OR OTHERWISE DISTURBED EXISTING UTILITIES, IMPROVEMENTS OR FEATURES OF WHATEVER NATURE, TO THEIR ORIGINAL CONDITION, UNLESS NOTED OTHERWISE ON THE PLANS.
6. CONTRACTOR SHALL COORDINATE HIS WORK, AND THAT OF HIS SUBCONTRACTORS, WITH ANY ONGOING GRADING OR SITE WORK OF OTHER CONTRACTORS AND WITH THE INSTALLATION OF FACILITIES BY PG&E, TELEPHONE AND CABLE TV.
7. ALL STREET MONUMENTS, LOT CORNER PIPES AND OTHER PERMANENT MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED IN CONFORMANCE WITH CITY REQUIREMENTS BEFORE FINAL ACCEPTANCE OF IMPROVEMENTS.
8. IF TEMPORARY LANE CLOSURES ARE REQUIRED FOR CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL FROM THE CITY ENGINEER BEFORE COMMENCING WORK.
9. EXISTING PEDESTRIAN WALKWAYS, BIKE PATHS AND HANDICAP ACCESS PATHWAYS WILL BE MAINTAINED DURING CONSTRUCTION TO THE SATISFACTION OF THE CITY ENGINEER.
10. TRENCHES WILL NOT BE LEFT OPEN OVERNIGHT ON SITE. CONTRACTOR WILL BACKFILL TRENCHES, OR PLACE STEEL PLATING AND/OR HOT-MIX ASPHALT AS REQUIRED TO PROTECT OPEN TRENCHES AT THE END OF EVERY WORK DAY.
11. EXCAVATIONS WILL BE ADEQUATELY SHORED, BRACED AND SHEATHED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE.
12. THE CONTRACTOR WILL PROVIDE DUST CONTROL FOR THE ENTIRE PROJECT SITE IN CONFORMANCE WITH BAY AREA AIR QUALITY MANAGEMENT DISTRICT'S BASIC AND ENHANCED DUST CONTROL MEASURES.
13. DURING CONSTRUCTION, THE CITY STREETS WILL BE CLEANED AS OFTEN AS REQUIRED TO REMOVE ANY ACCUMULATION OF MUD AND DEBRIS RESULTING FROM THIS CONSTRUCTION.
14. ALL CONSTRUCTION STAKING WILL BE DONE BY A LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA.
15. SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR WILL NOTIFY THE ENGINEER, BKF ENGINEERS AT (650) 482-6300 AND OBTAIN CLARIFICATION BEFORE PROCEEDING WITH THE WORK IN QUESTION.
16. IF BKF ENGINEERS IS RETAINED TO PROVIDE CONSTRUCTION STAKING SERVICES, CONTRACTOR WILL BE PROVIDED WITH ONE SET OF SURVEY STAKES FOR LAYOUT PURPOSES. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PRESERVE AND PROTECT THESE STAKES UNTIL THEY ARE NO LONGER NEEDED.
17. THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING PAVEMENT, ADJACENT LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALK, ETC., TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.

- 18. PRIOR TO BIDDING, THE CONTRACTOR WILL VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND THE OVERALL REQUIREMENTS OF THE PROJECT.
19. CONTRACTOR AND SUBCONTRACTORS WILL OBTAIN AND PAY FOR REQUIRED PERMITS AND LICENSES TO PERFORM WORK WITHIN THE CITY OF BRISBANE PRIOR TO START OF WORK.
20. CONTRACTOR WILL PROVIDE A PERFORMANCE BOND FOR THE PERFORMANCE OF THE WORK PRIOR TO ISSUANCE OF A GRADING PERMIT IN AN AMOUNT TO BE SET BY THE CITY ENGINEER, BUT NO LESS THAN 100 PERCENT OF THE ESTIMATED COST OF THE WORK APPROVED BY THE CITY ENGINEER.
21. CONTRACTOR WILL POST 24-HOUR EMERGENCY TELEPHONE NUMBERS FOR PUBLIC WORKS, POLICE DEPARTMENT AND FIRE DEPARTMENT ON SITE PRIOR TO START OF CONSTRUCTION.
22. NO GRADING WORK WILL BE PERFORMED DURING HOURS OTHER THAN THE NORMAL WORKING HOURS OF THE CITY PUBLIC WORKS DEPARTMENT'S INSPECTION AND MAINTENANCE PERSONNEL WITHOUT THE APPROVAL OF THE CITY ENGINEER AND WITHOUT FIRST OBTAINING A SPECIAL PERMIT FOR AFTER HOURS WORK FROM THE CITY ENGINEER.
23. CONTRACTOR WILL BE RESPONSIBLE FOR THE CARE AND PROTECTION OF ADJOINING PREMISES, TREES, LANDSCAPING UTILITIES, SIDEWALKS AND STREETS FROM DAMAGE BY HIS OPERATIONS.
24. CONSTRUCTION MATERIALS, EQUIPMENT AND VEHICLES WILL BE PROPERLY MAINTAINED AND MANAGED AT THE CONSTRUCTION SITE THROUGHOUT THE DURATION OF THE PROJECT.

III. EXISTING CONDITIONS

- 1. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON AN AERIAL SURVEY PERFORMED BY AERO-GEO DETIC DATED JANUARY 30, 2018 AND A FIELD SURVEY PERFORMED BY BKF ON AUGUST 30, 2019 AND AS-BUILT SITE CONDITIONS.
2. INFORMATION REGARDING EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS WAS TAKEN FROM RECORD DATA KNOWN TO THE ENGINEER AND IS NOT MEANT TO BE A FULL CATALOG OF EXISTING CONDITIONS.
3. ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF ANY CONSTRUCTION AFFECTING SAID LINES.
4. CONTRACTOR WILL CONTACT USA (UNDERGROUND SERVICES ALERT) TOLL FREE AT 811, AND ALL AFFECTED UTILITY COMPANIES, A MINIMUM OF 2 WORKING DAYS PRIOR TO STARTING WORK TO NOTIFY THEM OF CONSTRUCTION AND REQUEST UTILITIES BE MARKED. POT-HOLING BY THE CONTRACTOR OR UTILITY COMPANY SHALL BE PERFORMED WHERE NEEDED TO VERIFY LOCATION OF UTILITIES.

IV. DEMOLITION

- 1. ALL EXISTING UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT, WHICH ARE NOT SPECIFIED TO BE REMOVED OR ABANDONED, ARE TO REMAIN IN PLACE AND ARE NOT TO BE DISTURBED. CONTRACTOR WILL PROTECT SAID UTILITIES TO REMAIN THROUGHOUT THE COURSE OF CONSTRUCTION. CONTRACTOR WILL ADJUST SAID UTILITIES TO GRADE.

VI. RECORD DRAWINGS

- 1. ON A SET OF PRINTS OF THE FINAL APPROVED CONSTRUCTION DOCUMENTS CONTRACTOR WILL KEEP AN ACCURATE RECORD OF THE FINAL LOCATION, ELEVATION, AND A DESCRIPTION OF ALL WORK. CONTRACTOR SHALL ALSO NOTE THE LOCATION AND ELEVATION OF ANY EXISTING IMPROVEMENTS ENCOUNTERED WHICH VARY FROM THAT SHOWN. BASED ON SAID INFORMATION PROVIDED BY THE CONTRACTOR, BKF WILL PRODUCE FINAL RECORD DRAWINGS WHICH WILL BE A COMPLETE SET OF REPRODUCIBLE IMPROVEMENT PLANS WITH ALL ADDED NOTATIONS MADE IN INDELIBLE INK AND APPROPRIATELY HIGHLIGHTED. A RECORD DRAWING TITLED "AS-BUILT PLAN", SHALL BE SUBMITTED TO THE CITY PRIOR TO ISSUING A CERTIFICATE OF OCCUPANCY.

VII. STATEMENT OF RESPONSIBILITY

- 1. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT WILL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD BOTH DESIGN PROFESSIONAL AND THE CITY OF BRISBANE HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF EITHER THE DESIGN PROFESSIONAL OR THE CITY OF BRISBANE, RESPECTIVELY.

VIII. UNAUTHORIZED CHANGES AND USES

- 1. 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 MUST BE IN WRITING AND REQUIRE WRITTEN APPROVAL OF THE BRISBANE CITY ENGINEER AND THE PREPARER OF THESE PLANS.

GRADING NOTES

- 1. TOPSOIL, ROOTS, VEGETABLE MATTER, TRASH AND DEBRIS SHALL NOT BE CONSIDERED ACCEPTABLE FILL MATERIAL.
2. ANY AREA TO RECEIVE FILL WILL BE SCARIFIED AT LEAST 8-INCHES, MOISTURE CONDITIONED TO AT LEAST 2% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% RELATIVE COMPACTION.
3. CONTRACTOR WILL CLEAR DEBRIS FROM AREAS OF EARTHWORK AND GRADING PRIOR TO PLACING FILL OR STARTING GRADING OPERATIONS. DO NOT CLEAR AREAS OUTSIDE LIMIT OF WORK.
4. PLACE FILL MATERIAL IN LIFTS OF 8-INCH MAXIMUM UNCOMPACTED.
5. COMPACT FILL TO 90 PERCENT RELATIVE COMPACTION EXCEPT AS NOTED IN THE GEOTECHNICAL LETTER DATED AUGUST 12, 2022.
6. COMPACTION BY FLOODING, PONDING OR ETING WILL NOT BE PERMITTED.
7. FOR BIDDING PURPOSES CONTRACTOR WILL MAKE THEIR OWN DETERMINATION OF EARTHWORK QUANTITIES.
8. ALL GRADING AND EARTHWORK TO BE PERFORMED IN COMPLIANCE WITH THE SITE MANAGEMENT PLAN (SMP) PREPARED BY LANGAN AND DATED 11 NOVEMBER 2020, AND THE CITY OF BRISBANE MUNICIPAL CODE SECTION 15.01.092 (A COPY AVAILABLE IN THE CITY HALL OFFICE).
9. PRIOR TO WORK, LANGAN WILL PERFORM BORINGS TO IDENTIFY DEPTH TO CLAY CAP IN THE WORK AREA.
10. IF OFF-SITE IMPORTED FILL, SUCH AS RECYCLED BASED ROCK, IS REQUIRED TO ATTAIN THE DESIGN GRADES, IT WILL BE TESTED PRIOR TO IMPORT FOR COMPLIANCE WITH THE ENVIRONMENTAL AND GEOTECHNICAL PARAMETERS AS DESCRIBED IN SMP SECTION 12.0. OFF-SITE IMPORT FILL WILL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND ENVIRONMENTAL ENGINEER PRIOR TO IMPORT TO THE SITE.

UTILITY NOTES

- 1. NO WATER VALVES OR OTHER FACILITIES OWNED BY THE CITY UTILITIES DEPARTMENT WILL BE OPERATED FOR ANY PURPOSE BY THE CONTRACTOR. ALL REQUIRED OPERATION WILL ONLY BE PERFORMED BY AUTHORIZED UTILITIES DEPARTMENT PERSONNEL.
2. THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE PUBLIC WORKS DEPARTMENT IF EXISTING WATER, SEWER, GAS MAINS, OR SERVICES ARE DISTURBED OR DAMAGED.
3. CONTRACTOR WILL PROTECT ALL UTILITIES FROM DAMAGE DURING THE COURSE OF CONSTRUCTION.
4. ALL UTILITY BOXES AND LIDS IN PAVED AREAS WILL BE DESIGNED FOR H-20 LOADING.
5. EXISTING PG&E AND TELEPHONE MANHOLES/VAULTS WILL BE ADJUSTED TO GRADE BY THE UTILITY PROVIDER. THE CONTRACTOR WILL COORDINATE THEIR WORK WITH THE APPROPRIATE UTILITY PROVIDER. ALL OTHER UTILITY BOXES WILL BE ADJUSTED TO FINISHED GRADE BY THE CONTRACTOR.

SOIL MANAGEMENT

- 1. SITE DEVELOPMENT WILL REQUIRE EXCAVATION AND GRADING OF THE EXISTING OVERBURDEN SOIL. OVERBURDEN SOIL MAY BE REUSED ONSITE OR TRANSFERRED OFFSITE FOR DISPOSAL. SPECIFIC SOIL HANDLING REQUIREMENTS APPLY FOR THE PURPOSES OF SEGREGATING THE SOIL FROM REFUSE (IF ENCOUNTERED) AND CLAY CAP MATERIAL (IF ENCOUNTERED), AND IDENTIFYING AND MANAGING UNANTICIPATED CONDITIONS. THE CONTRACTOR WILL BE FAMILIAR WITH AND RESPONSIBLE FOR SOIL HANDLING REQUIREMENTS PROVIDED IN SMP SECTION 7.0, WHICH ARE REPEATED BELOW.

SOIL HANDLING

- 1. DURING EXCAVATION, OVERBURDEN SOIL, CLAY CAP LAYER MATERIAL AND REFUSE MUST BE SEGREGATED (IF ENCOUNTERED). OVERBURDEN SOIL WILL NEVER BE STOCKPILED WITH OR INCORPORATED WITH CLAY LAYER OR REFUSE MATERIALS (IF ENCOUNTERED). AN ENVIRONMENTAL TECHNICIAN WHO IS A CERTIFIED HAZARDOUS WASTE WORKER (PER 29 CODE OF FEDERAL REGULATIONS [CFR] 1910.120) WILL VISUALLY MONITOR CONSTRUCTION ACTIVITIES TO FACILITATE AND DOCUMENT COMPLIANCE WITH THE SPECIFIED SOIL MANAGEMENT PROCEDURES, OVERSEE OVERBURDEN SOIL SEGREGATION, AND IDENTIFY POTENTIAL UNANTICIPATED CONDITIONS. SOIL HANDLING WILL BE PERFORMED IN ACCORDANCE WITH A SITE-SPECIFIC HSP, TO BE APPROVED BY A CIH RETAINED BY THE GENERAL CONTRACTOR. CONSTRUCTION DEWATERING MANAGEMENT, AND STORM WATER MANAGEMENT REQUIREMENTS OUTLINED IN THIS SMP ALSO APPLY. EXCAVATED OVERBURDEN SOIL WILL BE VISUALLY MONITORED FOR THE PRESENCE OF HAZARDOUS OR OTHER UNACCEPTABLE MATERIALS. SHOULD THE PRESENCE OF HAZARDOUS OR OTHER UNACCEPTABLE MATERIALS BE IDENTIFIED, THE MATERIALS WILL BE HANDLED IN ACCORDANCE WITH THE CONTINGENCY PROCEDURES IDENTIFIED IN SECTION 13.0.

SOIL STOCKPILING

- 1. MATERIAL FROM THE OVERBURDEN SOIL MAY BE STOCKPILED ACCORDING TO INDUSTRY STANDARDS, INCLUDING ESTABLISHED BEST MANAGEMENT PRACTICES (BMPs) FOR EROSION CONTROL. STOCKPILES OF OVERBURDEN SOIL MAY BE PLACED ADJACENT TO THE ACTIVE EXCAVATION SHOULD IT BE REUSED AS BACKFILL WITHIN FIVE BUSINESS DAYS. IF THE STOCKPILE IS TO EXIST ON-SITE LONGER THAN FIVE BUSINESS DAYS, IT WILL BE LOCATED IN A DESIGNATED STOCKPILED AREA AT THE END OF THE WORK DAY. WHEN STOCKPILED MATERIAL IS NOT ACTIVELY BEING HANDLED, TOP SHEETING WILL BE SECURED TO COVER SURFACE AREAS OF THE STOCKPILE TO PREVENT EROSION, DUST CREATION, OR RUN-OFF. OTHER STABILIZATION METHODS, SUCH AS APPLICATION OF TACKIFIER, ARE ALSO ACCEPTABLE.

SOIL ON-SITE REUSE

- 1. OVERBURDEN SOIL MAY BE GRADED AND REUSED ONSITE, UNLESS UNANTICIPATED CONDITIONS ARE IDENTIFIED, NO RESTRICTIONS ON OVERBURDEN SOIL REUSE APPLY. IT IS ASSUMED THAT EXISTING OVERBURDEN SOIL MEETS THE GEOTECHNICAL REQUIREMENTS DESCRIBED IN SECTION 12.2.

SOIL OFF-SITE DISPOSAL

- 1. EXCAVATED OVERBURDEN SOIL THAT IS NOT REUSED AT THE SITE MUST BE FULLY PROFILED OFF-SITE REUSE OR DISPOSAL AND MANAGED ACCORDINGLY. SOIL PROPOSED FOR OFF-SITE REUSE OR DISPOSAL MUST BE SAMPLED AS REQUIRED BY THE SELECTED RECEIVING-FACILITY OR OFF-SITE LANDFILL. A LICENSED CONTRACTOR WILL BE HIRED TO HANDLE THE MATERIAL, INCLUDING CONTAINERIZATION AND TRANSPORT FOR OFF-SITE REUSE OR TO AN APPROPRIATELY PERMITTED DISPOSAL FACILITY, IF NECESSARY.

LEGEND

Table with columns: PROPOSED, EXISTING. Rows include: BOUNDARY LINE, EASEMENT, STORM DRAIN MAIN, SANITARY SEWER MAIN, WATER MAIN, STORM DRAIN, WATER LINE, JOINT TRENCH, ELECTRICAL, FENCE, CATCH BASIN/DROP INLET, MANHOLE, WATER METER, WATER VALVE, FDC, FIRE HYDRANT, STREET LIGHT.

ABBREVIATIONS

Table with columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Rows include: AB AGGREGATE BASE, AC ASPHALT CONCRETE, BCDC SAN FRANCISCO BAY CONSERVATION AND DEVELOPMENT COMMISSION BENCHMARK, BM BENCHMARK, BFP BACKFLOW PREVENTER, BOL BOLLARD, BOW BOTTOM OF WALL, BVCE BEGINNING OF VERTICAL CURVE ELEVATION, BVCS BEGINNING OF VERTICAL CURVE STATION, BW BACK OF WALK, DIA DIAMETER, DIP DUCTILE IRON PIPE, E EAST, ELEC ELECTRIC, EC END OF CURVE, ELEV ELEVATION, EP EDGE OF PAVEMENT, EVCE END OF VERTICAL CURVE ELEVATION, EVCS END OF VERTICAL CURVE STATION, EX EXISTING, EG EXISTING GRADE, ES EDGE OF SHOULDER, FDC FIRE DEPT CONNECTION, FH FLOW LINE, FL FLOW LINE, GB GRADE BREAK, HDPE HIGH DENSITY POLYETHYLENE, INV INVERT, JT JOINT TRENCH, LF LINEAR FEET, LVC LENGTH OF VERTICAL CURVE, MAX MAXIMUM, MIN MINIMUM, N NORTH.

PHASE 3 CIVIL ENGINEER: TLF 255 Shoreline Drive, Suite 200 Redwood City, CA 94065 LANDSCAPE ARCHITECT: TLS 1015 Camella St, Berkeley, CA 94710 STRUCTURAL ENGINEER: [Professional Engineer Seal]

1000 MARINA BOULEVARD NOTES, LEGEND, AND ABBREVIATIONS SAN MATEO COUNTY CITY OF BRISBANE CALIFORNIA

Table with columns: No., Date, Scale, Design, Drawn, Approved, Job No. Rows include: 4, 06/24/2022, 1"=20', AR, AR, LKY, 20170365-11. Includes a revision table with 3 entries.



DRAWING NAME: \\BKF-r-c\vo14\2017\170365\_3000\_Merino\CD\PLOTS\CO.1 NOTES AND ABBREVIATIONS.dwg PLOT DATE: 01-13-23 PLOTTED BY: memu



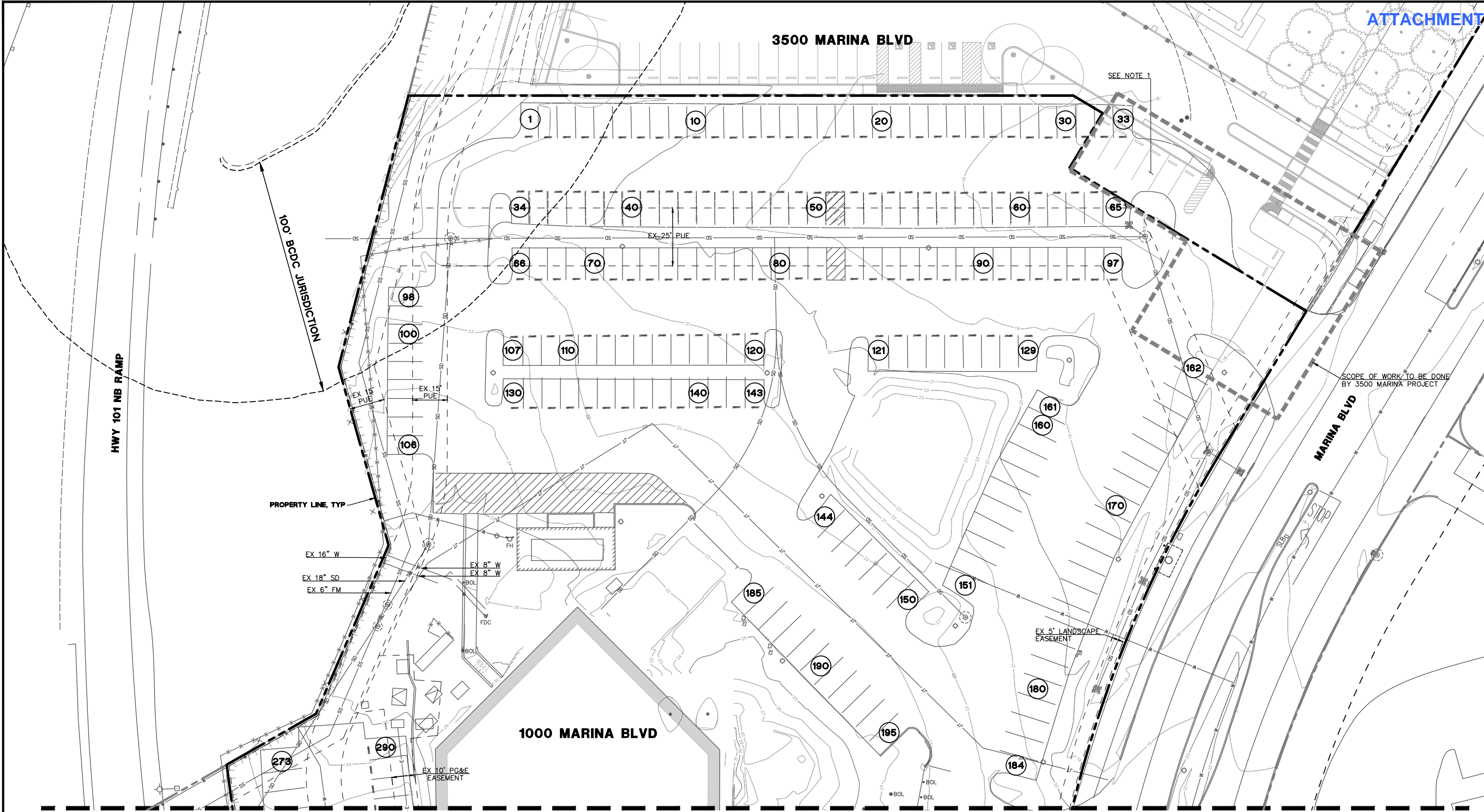
CIVIL ENGINEER:  
 255 Shoreline Drive, Suite 200  
 Redwood City, CA 94065  
 LANDSCAPE ARCHITECT:  
**TL**  
 1015 Camella St, Berkeley,  
 CA 94710  
 STRUCTURAL ENGINEER:



CALIFORNIA  
 SAN MATEO COUNTY  
 CITY OF BRISBANE  
**1000 MARINA BOULEVARD**  
 EXISTING CONDITIONS PLAN

No.	Date	Revisions
5	01/03/2023	PLAN CHECK RESPONSE 5
4	01/17/2023	PLAN CHECK RESPONSE 4
3	01/04/2023	PLAN CHECK RESPONSE 3
2	12/02/2022	PLAN CHECK RESPONSE 2
1	10/26/2022	PLAN CHECK RESPONSE

Date: 08/24/2022  
 Scale: 1"=20'  
 Design: AR  
 Drawn: AR  
 Approved: LKY  
 Job No: 20170365-11  
 Drawing Number:  
**C1.0**



SEE SHEET C1.1 FOR CONTINUATION

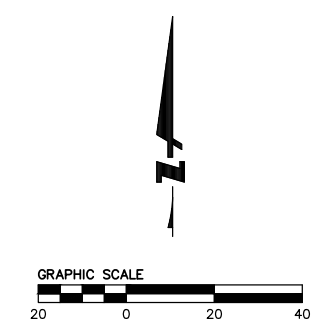
**EXISTING PARKING COUNT**

	AT-GRADE	GARAGE	
PARKING STALLS	283	19	
ADA STALLS	7	1	
TOTAL STALLS	290	20	310

	AT-GRADE
COMPACT STALLS	202
STANDARD STALLS	88
TOTAL STALLS	290

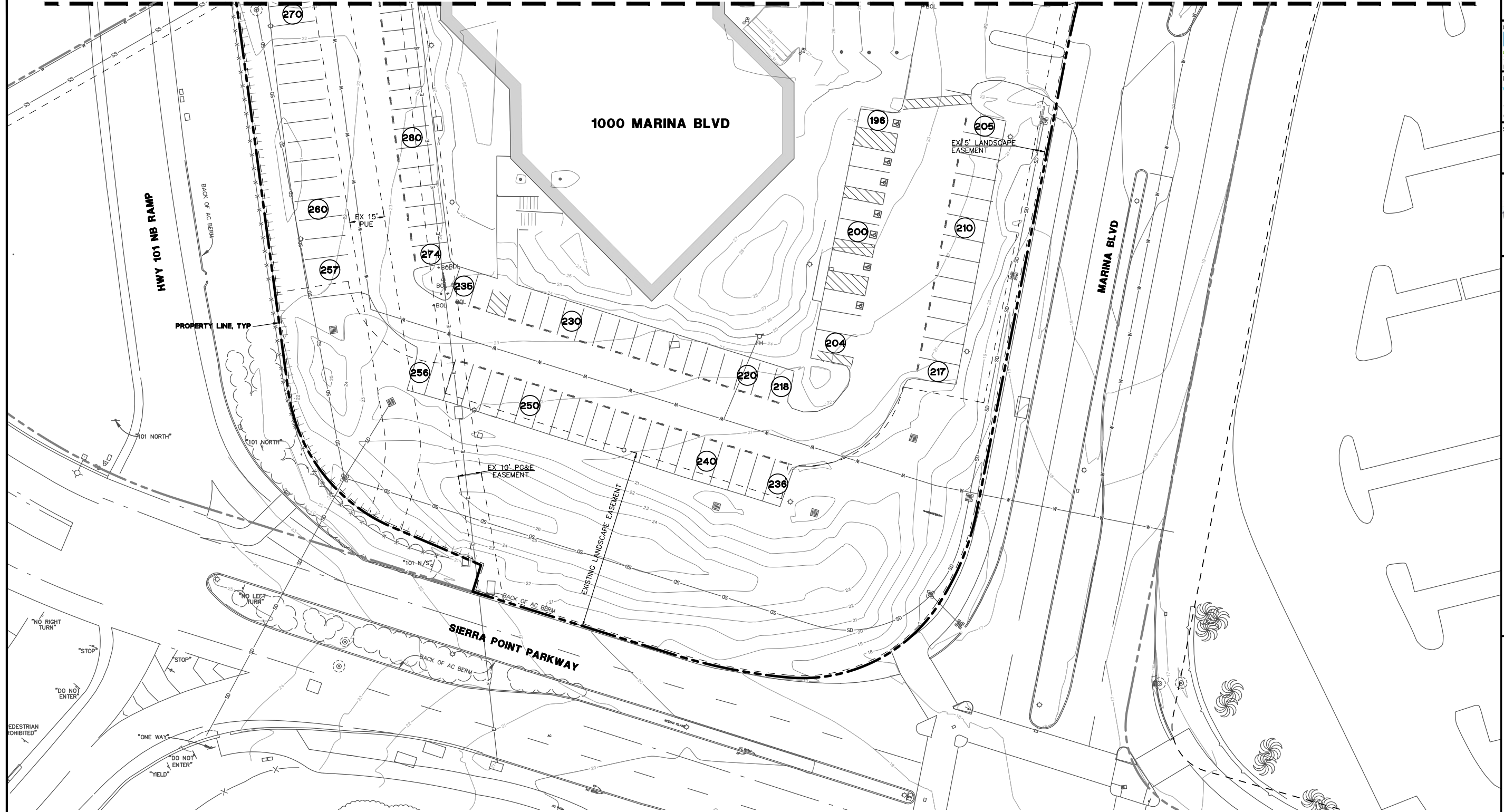
# PARKING STALL COUNT

- NOTES:**
- EXISTING CONDITIONS OF PARKING STALLS AND SITE IMPROVEMENT WILL BE DONE AS PART OF 3500 MARINA BLVD PERMIT SET.
  - EXISTING UTILITIES SHOWN IS NOT A FULL CATALOG OF UNDERGROUND UTILITIES. UTILITIES SHOWN ON THIS PLAN ARE FROM VARIOUS SOURCES. CONTRACTOR IS TO NOTIFY ENGINEER WHEN ENCOUNTERING UTILITIES AND EXPECT ALL UTILITIES TO BE ACTIVE.
  - EXISTING EASEMENT INFORMATION IS FROM VARIOUS SOURCES. BKF ENGINEERS DID NOT CONFIRM THE EXISTING EASEMENTS.
  - SEE LANDSCAPE DRAWINGS FOR LOCATION OF EXISTING TREES.
  - COMPACT STALLS SHOWN ON THIS SHEET ARE 8' IN WIDTH AND 14' IN LENGTH. EXISTING STANDARD STALLS SHOWN ON THIS SHEET ARE 8.5' IN WIDTH AND 16' IN LENGTH. EXISTING STALL DIMENSIONS ARE BASED ON THE 1000 SIERRA POINT PARKWAY RECORD DRAWINGS DATED SEPTEMBER 14, 1981.



DRAWING NAME: \\BKF-r-c\vol14\2017\170365\_3000\_Mar\inc\ENG\1000\_Mar\inc\CD\LOTS\C1.0\_EXISTING\_CONDITIONS.dwg  
 PLOT DATE: 01-30-23  
 PLOTTED BY: monu

SEE SHEET C1.0 FOR CONTINUATION



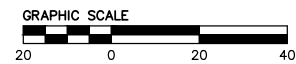
**EXISTING PARKING COUNT**

	AT-GRADE	GARAGE	
PARKING STALLS	283	19	
ADA STALLS	7	1	
TOTAL STALLS	290	20	310

	AT-GRADE
COMPACT STALLS	202
STANDARD STALLS	88
TOTAL STALLS	290

# PARKING STALL COUNT

**NOTE:**  
SEE SHEET C1.0 FOR NOTES.



**KEY MAP**  
NTS

DRAWING NAME: \\bkf-c\vol14\2017\170365\_3000\_Mar\inc\ENG\1000\_Mar\inc\CD\PLOTS\C1.0\_EXISTING\_CONDITIONS.dwg  
PLOT DATE: 01-30-23 PLOTTED BY: monu

CIVIL ENGINEER:  
255 Shoreline Drive, Suite 200  
Redwood City, CA 94065  
LANDSCAPE ARCHITECT:  
**TL**  
1015 Camella St, Berkeley,  
CA 94710  
STRUCTURAL ENGINEER:



**1000 MARINA BOULEVARD**  
**EXISTING CONDITIONS PLAN**

CALIFORNIA

SAN MATEO COUNTY

CITY OF BRISBANE

Date	Revisions	No.	By	Check
08/24/2022	PLAN CHECK RESPONSE 5	5		01/00/2023
	PLAN CHECK RESPONSE 4	4		01/17/2023
	PLAN CHECK RESPONSE 3	3		01/04/2023
	PLAN CHECK RESPONSE 2	2		12/02/2022
	PLAN CHECK RESPONSE	1		10/26/2022

Drawing Number:

**C1.1**



CIVIL ENGINEER:  
  
 255 Shoreline Drive, Suite 200  
 Redwood City, CA 94065

LANDSCAPE ARCHITECT:  
  
 1015 Camella St, Berkeley,  
 CA 94710

STRUCTURAL ENGINEER:



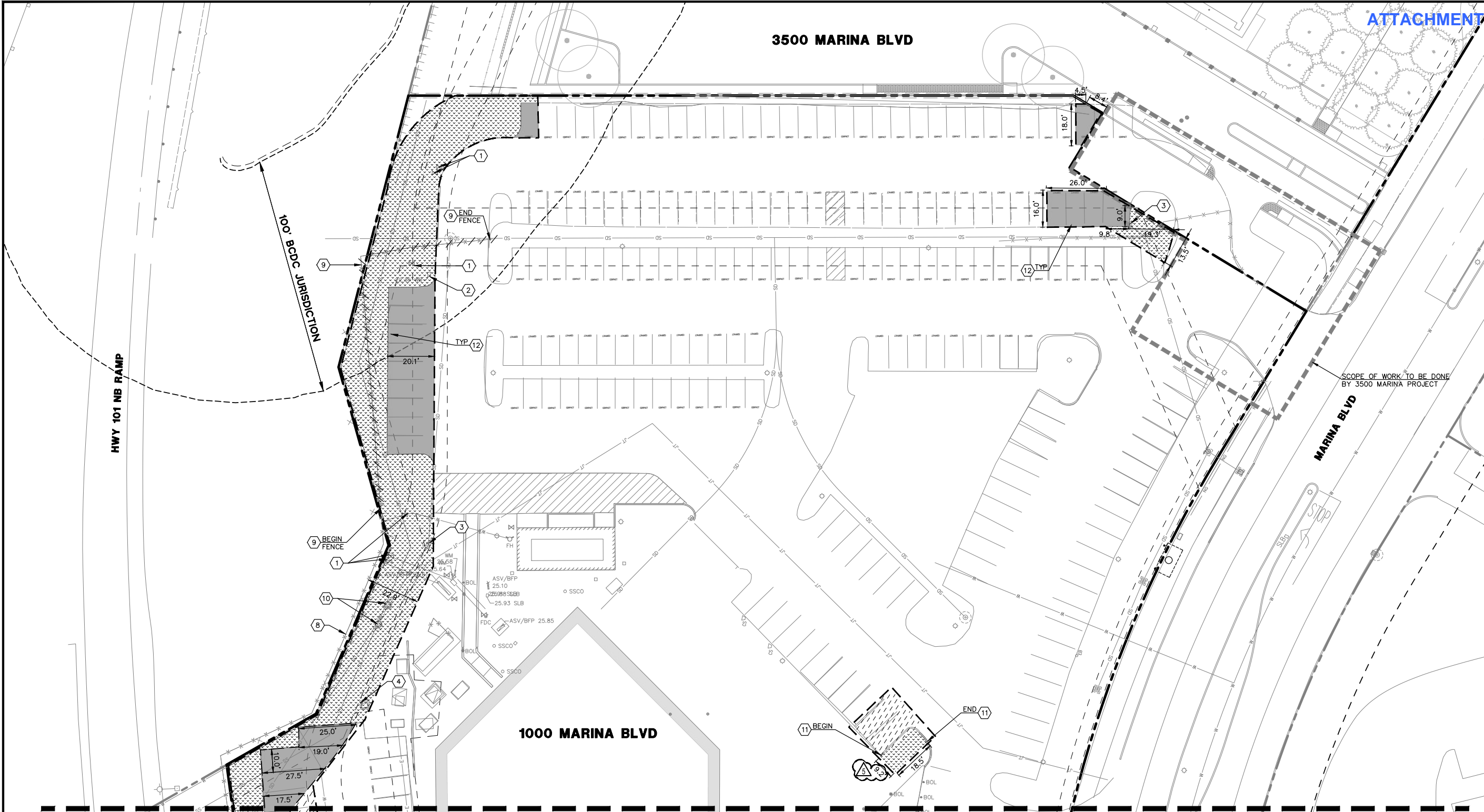
CALIFORNIA  
 SAN MATEO COUNTY  
**1000 MARINA BOULEVARD**  
 DEMOLITION PLAN  
 CITY OF BRISBANE

No.	Revisions
5	PLAN CHECK RESPONSE 5
4	PLAN CHECK RESPONSE 4
3	PLAN CHECK RESPONSE 3
2	PLAN CHECK RESPONSE 2
1	PLAN CHECK RESPONSE

Date	08/24/2022
Scale	1"=20'
Design	AR
Drawn	AR
Approved	LKY
Job No	20170365-11

Drawing Number:  
**C2.0**



SEE SHEET C2.1 FOR CONTINUATION

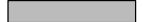
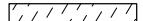
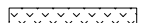



DEMOLITION TABLE	
①	PROTECT WATER VALVE
②	PROTECT WATER METER
③	PROTECT STORM DRAIN MANHOLE
④	PROTECT LIFT STATION CONTROL BOX
⑤	PROTECT LIGHT POLE/ FIXTURE
⑥	REMOVE SDCB/SDDI, SEE NOTE 2
⑦	PROTECT ELECTRICAL VAULT
⑧	PROTECT FENCE
⑨	REMOVE FENCE

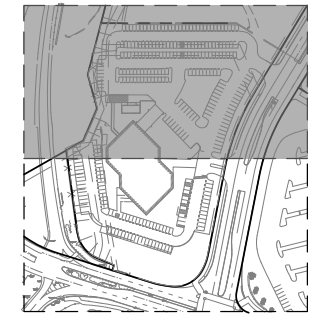
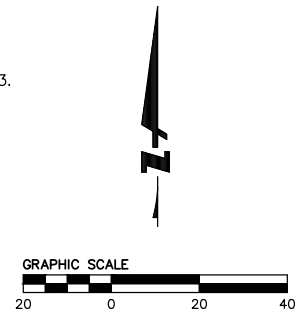
⑩	PROTECT SANITARY SEWER MANHOLE
⑪	REMOVE EXISTING CURB/AC BERM
⑫	SALVAGE/RELOCATE WHEEL STOP
⑬	RELOCATE LIGHT POLE/ FIXTURE
⑭	SALVAGE/RELOCATE EMERGENCY SIGN
⑮	PROTECT BFP
⑯	PROTECT SDCB/SDDI
⑰	PROTECT SIGN

**NOTES:**

- PROTECT ALL UNDERGROUND UTILITIES UON.
- EXISTING STORM DRAIN STRUCTURES ARE INLETS THAT ARE INTENTIONALLY COVERED AND ARE FILLED WITH DIRT. REMOVE STRUCTURES AND PIPES IF PIPES ARE AT LEAST 3.5 FEET IN DEPTH.
- REFER TO LANDSCAPE PLANS FOR REMOVAL OF TREES. REMOVE ALL ROCKS AND SCARIFY TO A DEPTH OF AT LEAST 8-INCHES, MOISTURE-CONDITIONED TO AT LEAST TWO PERCENT ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO AT LEAST 90 PERCENT RELATIVE COMPACTION.
- DEMOLITION WITHIN EXISTING UTILITIES SHOULD BE DONE WITH CARE. DEPTH OF EXISTING UTILITIES VARIES. NO HEAVY EQUIPMENT IS TO BE DRIVEN ON EXISTING UTILITIES THAT ARE TO REMAIN.
- REMOVAL OF EXISTING WHEEL STOPS AND EMERGENCY SIGNS ARE TO BE DONE WITH CARE. WHEEL STOPS AND EMERGENCY SIGNS AND POST TO BE REUSED AND RELOCATED ON SITE. CONCRETE FOUNDATION OF THE SIGN POSTS TO BE REMOVED.

**LEGEND:**

-  AC TO BE REMOVED
-  PAVEMENT STRIPING TO BE REMOVED
-  LANDSCAPE TO BE REMOVED, SEE NOTE 3.
-  LIMIT OF DEMOLITION/SAWCUT
-  PROPERTY LINE
-  EXISTING EASEMENT LINE



KEY MAP  
 NTS

DRAWING NAME: \\bkf-cv\c\14\2017\170365\_3000\_Mer\inc\ENG\1000\_Mar\inc\CD\LOTS\C2.0 DEMOLITION PLAN.dwg  
 PLOT DATE: 01-30-23 PLOTTED BY: monu

SEE SHEET C2.0 FOR CONTINUATION

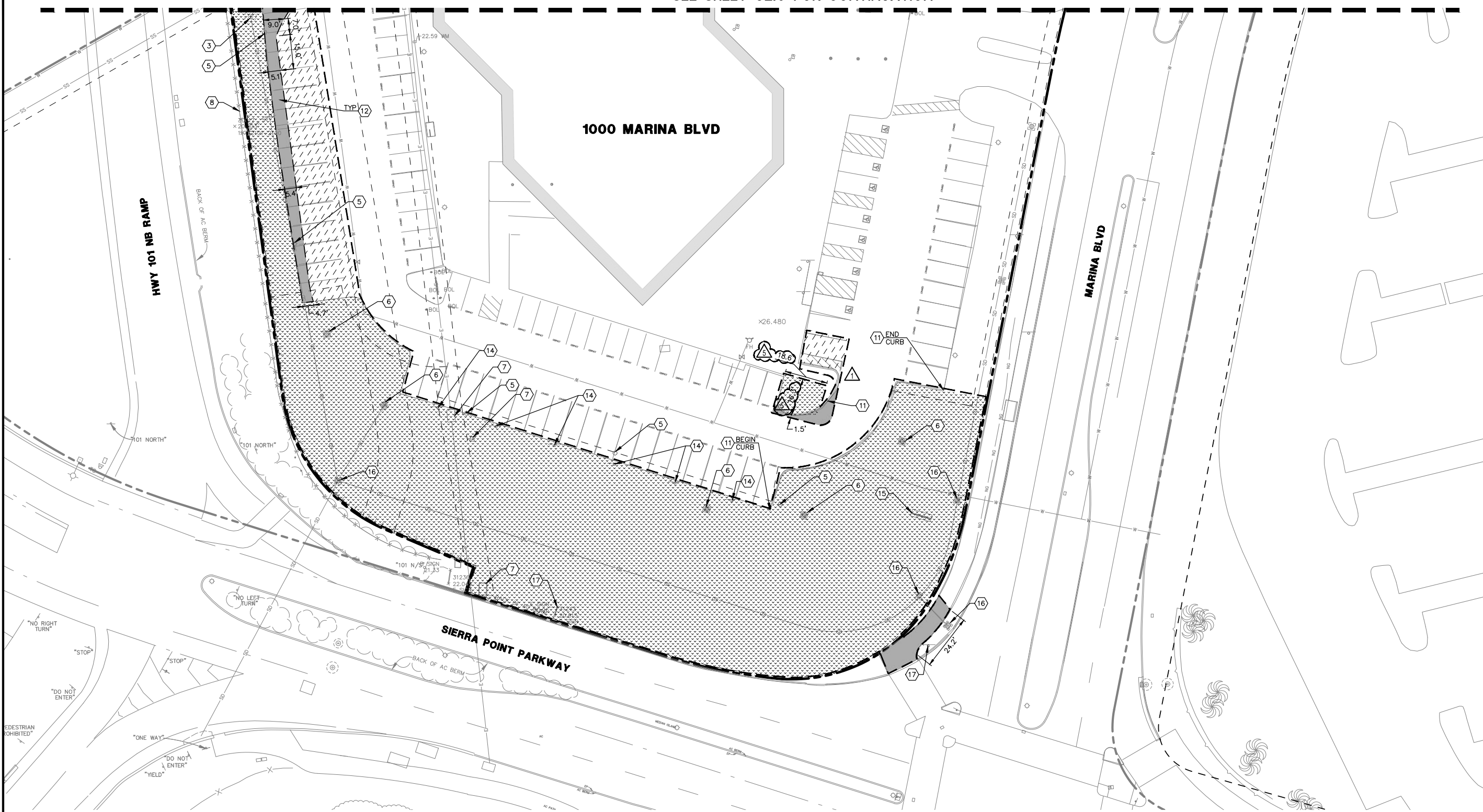
CIVIL ENGINEER:  
 255 Shoreline Drive, Suite 200  
 Redwood City, CA 94065  
 LANDSCAPE ARCHITECT:  
**TL**  
 1015 Camella St, Berkeley,  
 CA 94710  
 STRUCTURAL ENGINEER:



CALIFORNIA  
 SAN MATEO COUNTY  
 CITY OF BRISBANE  
**1000 MARINA BOULEVARD**  
 DEMOLITION PLAN

No.	Revisions
5	PLAN CHECK RESPONSE 5 01/30/2023
4	PLAN CHECK RESPONSE 4 01/17/2023
3	PLAN CHECK RESPONSE 3 01/04/2023
2	PLAN CHECK RESPONSE 2 12/02/2022
1	PLAN CHECK RESPONSE 10/26/2022

Drawing Number:  
**C2.1**

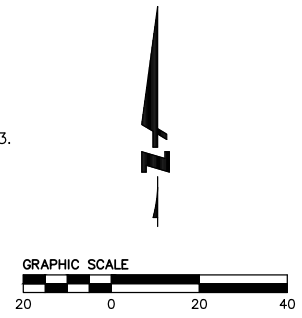


1	PROTECT WATER VALVE
2	PROTECT WATER METER
3	PROTECT STORM DRAIN MANHOLE
4	PROTECT LIFT STATION CONTROL BOX
5	PROTECT LIGHT POLE/ FIXTURE
6	REMOVE SDCB/SDDI, SEE NOTE 2
7	PROTECT ELECTRICAL VAULT
8	PROTECT FENCE
9	REMOVE FENCE

10	PROTECT SANITARY SEWER MANHOLE
11	REMOVE EXISTING CURB/AC BERM
12	SALVAGE/RELOCATE WHEEL STOP
13	RELOCATE LIGHT POLE/ FIXTURE
14	SALVAGE/RELOCATE EMERGENCY SIGN
15	PROTECT BFP
16	PROTECT SDCB/SDDI
17	PROTECT SIGN

**NOTE:**  
 SEE SHEET C2.1 FOR NOTES.

- LEGEND:**
- AC TO BE REMOVED
  - PAVEMENT STRIPPING TO BE REMOVED
  - LANDSCAPE TO BE REMOVED, SEE NOTE 3.
  - LIMIT OF DEMOLITION/SAWCUT
  - PROPERTY LINE
  - EASEMENT LINE



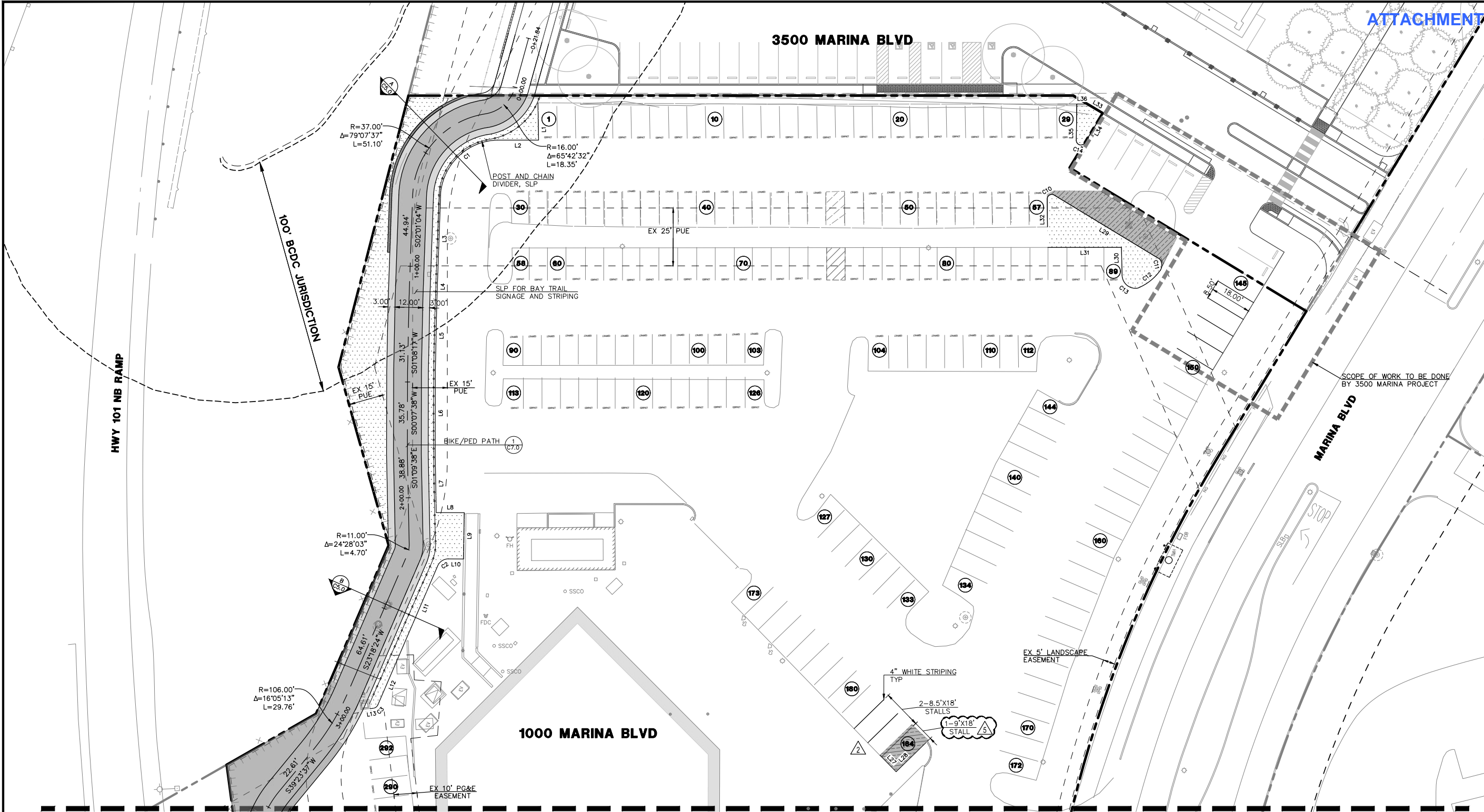
DRAWING NAME: \\BKf-c\c\vo14\2017\170365\_3000\_Mer\inc\ENG\1000\_Mer\inc\CD\LOTS\C2.0 DEMOLITION PLAN.dwg  
 PLOT DATE: 01-30-23  
 PLOTTED BY: monu



CIVIL ENGINEER:  
 255 Shoreline Drive, Suite 200  
 Redwood City, CA 94065  
 LANDSCAPE ARCHITECT:  
**TL**  
 1015 Camella St. Berkeley,  
 CA 94710  
 STRUCTURAL ENGINEER:



CALIFORNIA  
 SAN MATEO COUNTY  
 CITY OF BRISBANE  
**1000 MARINA BOULEVARD**  
 SITE PLAN



**LINE TABLE**

NO.	BEARING	LENGTH
L1	S01°01'17"E	16.10'
L2	N90°00'00"W	17.76'
L3	S02°03'31"W	40.34'
L4	S01°54'34"W	6.14'
L5	S01°15'08"W	31.12'
L6	S00°04'21"W	35.76'
L7	S01°00'06"E	25.12'
L8	S89°44'40"E	12.13'
L9	S00°50'22"W	20.00'
L10	N89°44'40"W	6.59'
L11	S23°17'52"W	44.63'
L12	S23°18'24"W	20.57'
L13	S81°59'52"W	1.34'
L14	S07°36'41"E	105.97'
L15	S72°20'49"E	166.71'
L16	S72°35'53"E	6.66'

**LINE TABLE**

NO.	BEARING	LENGTH
L17	N17°24'14"E	14.00'
L18	S17°24'26"W	14.00'
L19	S72°35'46"E	0.97'
L20	S11°04'14"W	17.72'
L21	S11°17'54"W	2.43'
L22	S72°35'37"E	13.10'
L23	S11°04'14"W	12.56'
L24	N72°35'37"W	0.42'
L25	N17°40'39"E	16.02'
L26	N72°38'53"W	18.00'
L27	S44°17'38"E	9.99'
L28	N45°42'22"E	18.00'
L29	S58°45'04"E	53.24'
L30	N01°21'59"W	12.35'
L31	S89°56'57"W	31.81'
L32	N00°40'50"W	12.06'

**LINE TABLE**

NO.	BEARING	LENGTH
L33	S58°13'14"E	7.66'
L34	S31°13'41"W	14.81'
L35	N00°44'18"E	15.70'
L36	S89°13'15"E	4.67'

**CURVE TABLE**

NO.	RADIUS	DELTA	LENGTH
C1	25.28'	82°04'11"	36.22'
C2	5.00'	68°18'28"	5.96'
C3	2.44'	61°41'19"	2.63'
C4	60.02'	65°31'02"	68.63'
C5	3.50'	144°07'11"	8.80'
C6	50.00'	96°20'00"	84.07'
C7	5.00'	89°59'01"	7.85'
C8	5.01'	96°34'42"	8.44'
C9	1.00'	90°16'15"	1.58'
C10	2.00'	120°54'38"	4.22'
C11	4.27'	68°01'46"	5.08'
C12	22.27'	32°43'05"	12.72'
C13	5.76'	95°43'09"	9.63'
C14	2.00'	149°30'48"	5.22'

**NOTES:**

- REFER TO LANDSCAPE DRAWINGS FOR DECOMPOSED GRANITE SECTION AND STEEL EDGE FOR BAY TRAIL.
- REFER TO LANDSCAPE DRAWINGS FOR SIGNAGE AND STRIPING OF BAY TRAIL.
- REFER TO LANDSCAPE DRAWINGS FOR PROPOSED TREE LOCATIONS AND PLANTING.
- REFER TO GEOTECHNICAL SUPPLEMENTAL RECOMMENDATION LETTER FOR EARTHWORK PLACEMENT. REFER TO THE SITE MANAGEMENT PLAN (SMP) PREPARED BY LANGAN AND DATED 11 NOVEMBER 2020 FOR SOIL HANDLING REQUIREMENTS.

**1000 MARINA BOULEVARD PROPOSED PARKING COUNT:**

	AT-GRADE	GARAGE	TOTAL
PARKING STALLS	285	19	
ADA STALLS	7	1	
<b>TOTAL STALLS</b>	<b>292</b>	<b>20</b>	<b>312</b>

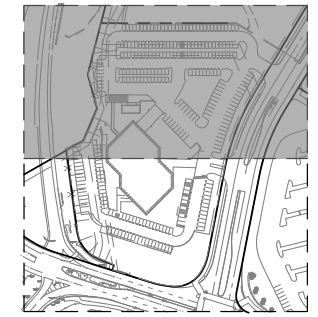
  

	AT-GRADE
NEW STALLS	16
REPLACED STALLS	20
<b>TOTAL STALLS</b>	<b>292</b>

SEE SHEET C3.1 FOR CONTINUATION

**LEGEND:**

- BAY TRAIL PAVEMENT SECTION  
SEE DETAIL 1/C7.0  
TOTAL AREA: 10,448 / AREA SHOWN ON THIS SHEET: 4,870 SF
- DECOMPOSED GRANITE SHOULDER, SLP
- VEHICULAR PAVEMENT SECTION  
SEE DETAIL 2/C7.0  
TOTAL AREA: 4,097 SF / AREA SHOWN ON THIS SHEET: 776 SF
- LANDSCAPE AREA, SLP
- PROPERTY LINE
- EXISTING EASEMENT LINE
- PARKING COUNT



Revisions

No.	Date	Description	By	Check
1	01/03/2023	PLAN CHECK RESPONSE 5		
2	01/17/2023	PLAN CHECK RESPONSE 4		
3	01/04/2023	PLAN CHECK RESPONSE 3		
4	12/02/2022	PLAN CHECK RESPONSE 2		
5	10/26/2022	PLAN CHECK RESPONSE		

Date: 08/24/2022  
 Scale: 1"=20'  
 Design: AR  
 Drawn: AR  
 Approved: LKY  
 Job No: 20170365-11  
 Drawing Number: **C3.0**

DRAWING NAME: \\bkf-c\vo\14\2017\170365\_3000\_Mar\inc\CD\PLOTS\C3.0 SITE PLAN.dwg  
 PLOT DATE: 01-30-23  
 PLOTTED BY: menu

SEE SHEET C3.0 FOR CONTINUATION

CIVIL ENGINEER:  
255 Shoreline Drive, Suite 200  
Redwood City, CA 94065  
LANDSCAPE ARCHITECT:  
**TL**  
1015 Camella St, Berkeley,  
CA 94710  
STRUCTURAL ENGINEER:



CALIFORNIA

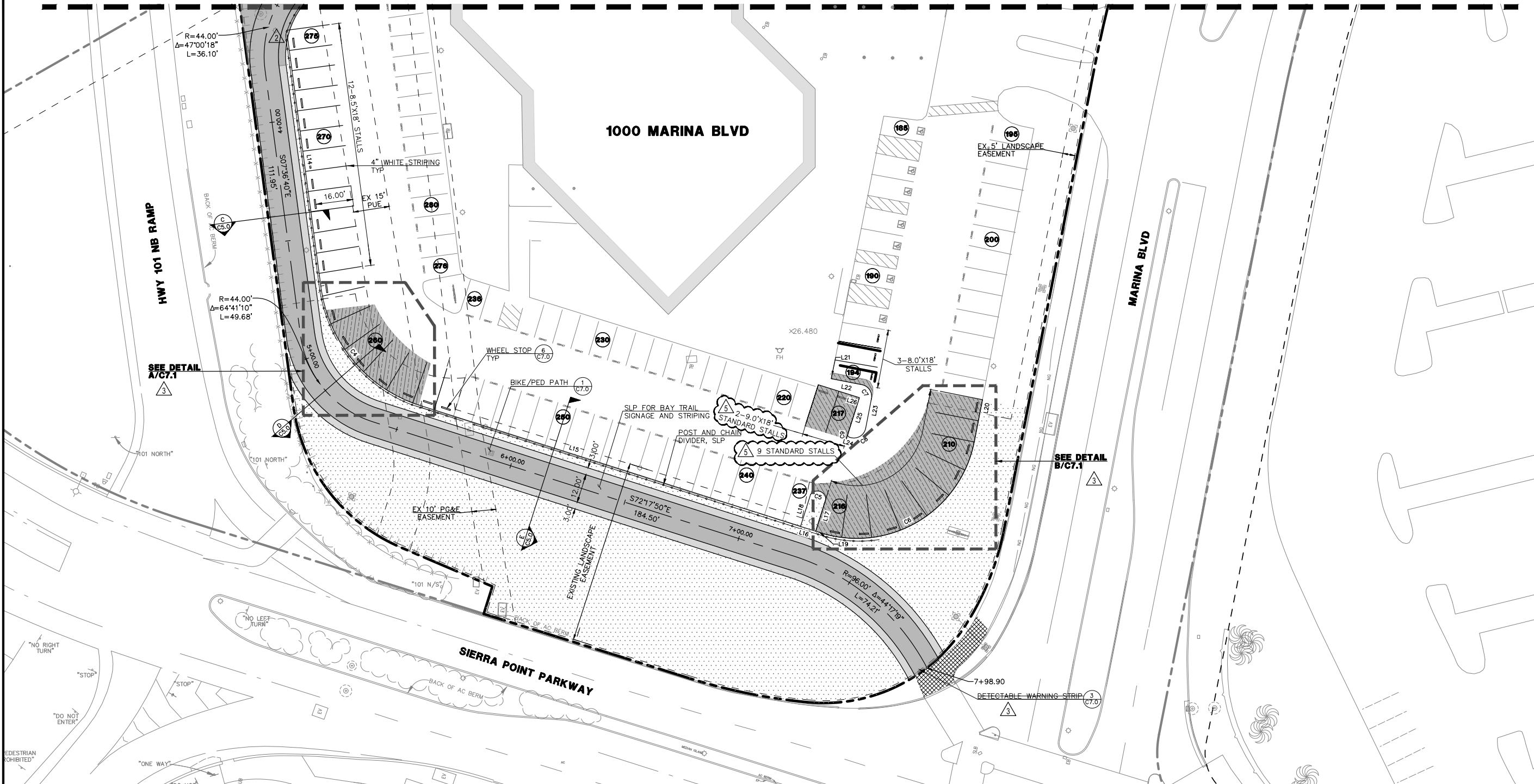
1000 MARINA BOULEVARD  
SITE PLAN

SAN MATEO COUNTY  
CITY OF BRISBANE

No.	Date	Revisions
1	01/00/2023	PLAN CHECK RESPONSE 5
2	01/17/2023	PLAN CHECK RESPONSE 4
3	01/04/2023	PLAN CHECK RESPONSE 3
4	12/02/2022	PLAN CHECK RESPONSE 2
5	10/26/2022	PLAN CHECK RESPONSE

Drawing Number:  
**C3.1**

DRAWING NAME: \\BKF-r-c\vol14\2017\170365\_3000\_Mar\inc\CD\PLTS\C3.0 SITE PLAN.dwg  
PLOT DATE: 01-30-23  
PLOTTED BY: menu



NO.	BEARING	LENGTH
L1	S01°01'17"E	16.10'
L2	N90°00'00"W	17.76'
L3	S02°03'31"W	40.34'
L4	S01°54'34"W	6.14'
L5	S01°15'08"W	31.12'
L6	S00°04'21"W	35.76'
L7	S01°00'06"E	25.12'
L8	S89°44'40"E	12.13'
L9	S00°50'22"W	20.00'
L10	N89°44'40"W	6.59'
L11	S23°17'52"W	44.63'
L12	S23°18'24"W	20.57'
L13	S81°59'52"W	1.34'
L14	S07°36'41"E	105.97'
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L20	S11°04'14"W	17.72'
L21	S11°17'54"W	2.43'
L22	S78°53'37"E	13.10'
L23	S11°04'14"W	12.56'
L24	N72°35'37"W	0.42'
L25	N17°40'39"E	16.02'
L26	N72°38'53"W	18.00'
L27	S44°17'38"E	9.99'
L28	N45°42'22"E	18.00'
L29	S58°45'04"E	53.24'
L30	N01°21'59"W	12.35'
L31	S89°56'57"W	31.81'
L32	N00°40'50"W	12.06'

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C5	3.50'	144°07'11"	8.80'
C6	50.00'	96°20'00"	84.07'
C7	5.00'	89°59'01"	7.85'
C8	5.01'	96°34'42"	8.44'
C9	1.00'	90°16'15"	1.58'
C10	2.00'	120°54'38"	4.22'
C11	4.27'	68°01'46"	5.08'
C12	22.27'	32°43'05"	12.72'
C13	5.76'	95°43'09"	9.63'
C14	2.00'	149°30'48"	5.22'

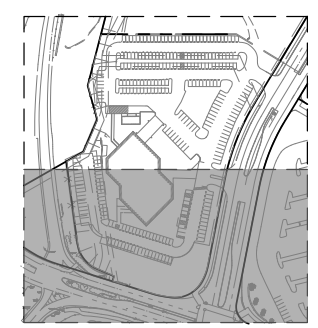
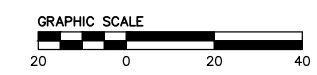
**NOTE:**  
SEE C3.0 FOR NOTES.

**1000 MARINA BOULEVARD PROPOSED PARKING COUNT:**

	AT-GRADE	GARAGE	TOTAL
PARKING STALLS	285	19	304
ADA STALLS	7	1	8
<b>TOTAL STALLS</b>	<b>292</b>	<b>20</b>	<b>312</b>

	AT-GRADE
NEW STALLS	16
REPLACED STALLS	20
<b>TOTAL STALLS</b>	<b>292</b>

- LEGEND:**
- MARINA BLVD WALKWAY  
REPLACE IN KIND
  - BAY TRAIL PAVEMENT SECTION  
SEE DETAIL 1/C7.0  
TOTAL AREA: 10,448 SF / AREA SHOWN ON THIS SHEET: 5,578 SF
  - DECOMPOSED GRANITE SHOULDER, SLP
  - VEHICULAR PAVEMENT SECTION  
SEE DETAIL 2/C7.0  
TOTAL AREA: 4,097 / AREA SHOWN ON THIS SHEET: 3,321 SF
  - LANDSCAPE AREA, SLP
  - PROPERTY LINE
  - EXISTING EASEMENT LINE
  - PARKING COUNT



KEY MAP  
NTS



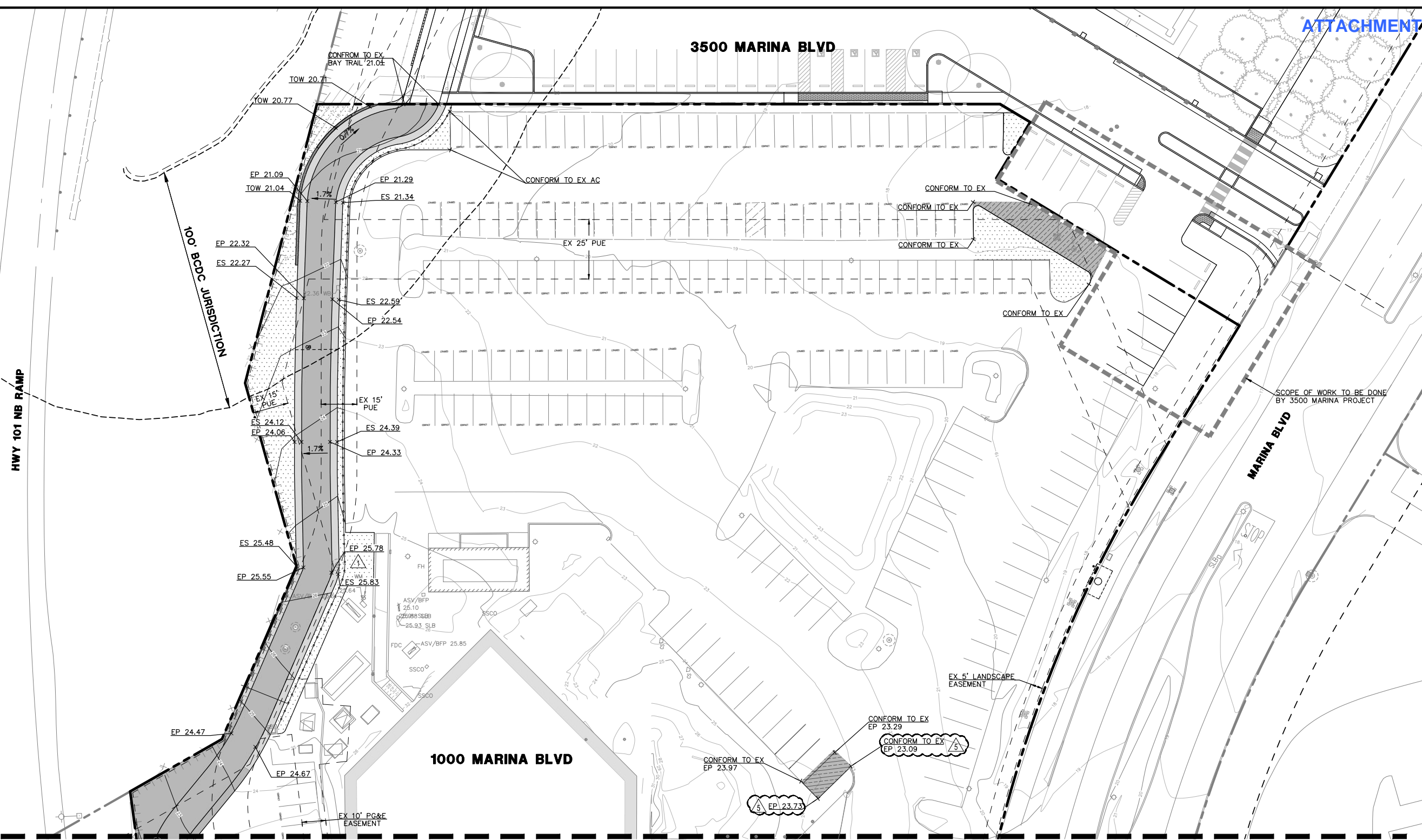
CIVIL ENGINEER:  
 T.L.F.  
 255 Shoreline Drive, Suite 200  
 Redwood City, CA 94065  
 LANDSCAPE ARCHITECT:  
 T.L.S.  
 1015 Camella St, Berkeley,  
 CA 94710  
 STRUCTURAL ENGINEER:



CALIFORNIA  
 SAN MATEO COUNTY  
 CITY OF BRISBANE  
**1000 MARINA BOULEVARD**  
**GRADING PLAN**

No.	Revisions
5	PLAN CHECK RESPONSE 5 01/03/2023
4	PLAN CHECK RESPONSE 4 01/17/2023
3	PLAN CHECK RESPONSE 3 01/04/2023
2	PLAN CHECK RESPONSE 2 12/02/2022
1	PLAN CHECK RESPONSE 10/26/2022

Date: 08/24/2022  
 Scale: 1"=20'  
 Design: AR  
 Drawn: AR  
 Approved: LKY  
 Job No: 20170365-11  
 Drawing Number:  
**C4.0**

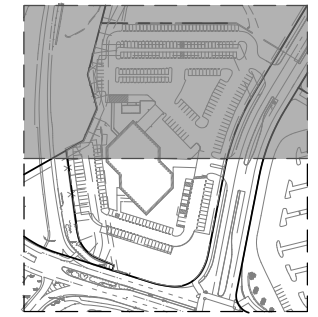
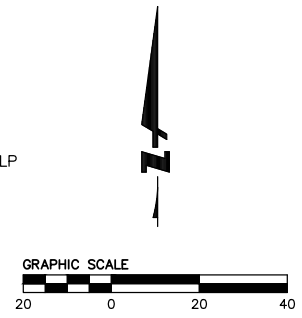


SEE SHEET C4.1 FOR CONTINUATION

**EARTHWORK QUANTITIES:**

CUT MATERIAL	1,724 CY
FILL MATERIAL	222 CY
NET EXPORT	1,502 CY

- LEGEND:**
- MARINA BLVD WALKWAY REPLACE IN KIND
  - BAY TRAIL PAVEMENT SECTION SEE DETAIL 1/C7.0
  - DECOMPOSED GRANITE SHOULDER, SLP
  - VEHICULAR PAVEMENT SECTION SEE DETAIL 2/C7.0
  - LANDSCAPE AREA, SLP
  - PROPERTY LINE
  - EXISTING EASEMENT LINE



KEY MAP  
NTS

DRAWING NAME: \\bkf-c\c\vo\14\2017\170365\_3000\_Mar\inc\eng\1000\_Mar\inc\CD\PLOTS\C4.0 GRADING PLAN.dwg  
 PLOT DATE: 01-30-23  
 PLOTTED BY: monu

SEE SHEET C4.0 FOR CONTINUATION

1000 MARINA BLVD

HWY 101 NB RAMP

MARINA BLVD

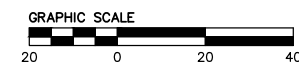
SIERRA POINT PARKWAY

**EARTHWORK QUANTITIES:**

CUT MATERIAL	1,724 CY
FILL MATERIAL	222 CY
NET EXPORT	1,502 CY

**LEGEND:**

- MARINA BLVD WALKWAY REPLACE IN KIND
- BAY TRAIL PAVEMENT SECTION SEE DETAIL 1/C7.0
- DECOMPOSED GRANITE SHOULDER, SLP
- VEHICULAR PAVEMENT SECTION SEE DETAIL 2/C7.0
- LANDSCAPE AREA, SLP
- PROPERTY LINE
- EXISTING EASEMENT LINE



KEY MAP  
NTS

CIVIL ENGINEER:  
  
 255 Shoreline Drive, Suite 200  
 Redwood City, CA 94065

LANDSCAPE ARCHITECT:  
  
 1015 Camella St, Berkeley,  
 CA 94710

STRUCTURAL ENGINEER:



CALIFORNIA

1000 MARINA BOULEVARD  
GRADING PLAN

SAN MATEO COUNTY

CITY OF BRISBANE

Revisions

No.	Description	Date
5	PLAN CHECK RESPONSE 5	01/03/2023
4	PLAN CHECK RESPONSE 4	01/17/2023
3	PLAN CHECK RESPONSE 3	01/04/2023
2	PLAN CHECK RESPONSE 2	12/02/2022
1	PLAN CHECK RESPONSE	10/26/2022

Date: 08/24/2022  
 Scale: 1"=20'  
 Design: AR  
 Drawn: AR  
 Approved: LKY  
 Job No: 20170365-11

Drawing Number:

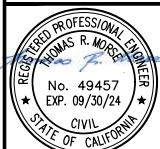
C4.1



CIVIL ENGINEER:  
 255 Shoreline Drive, Suite 200  
 Redwood City, CA 94065

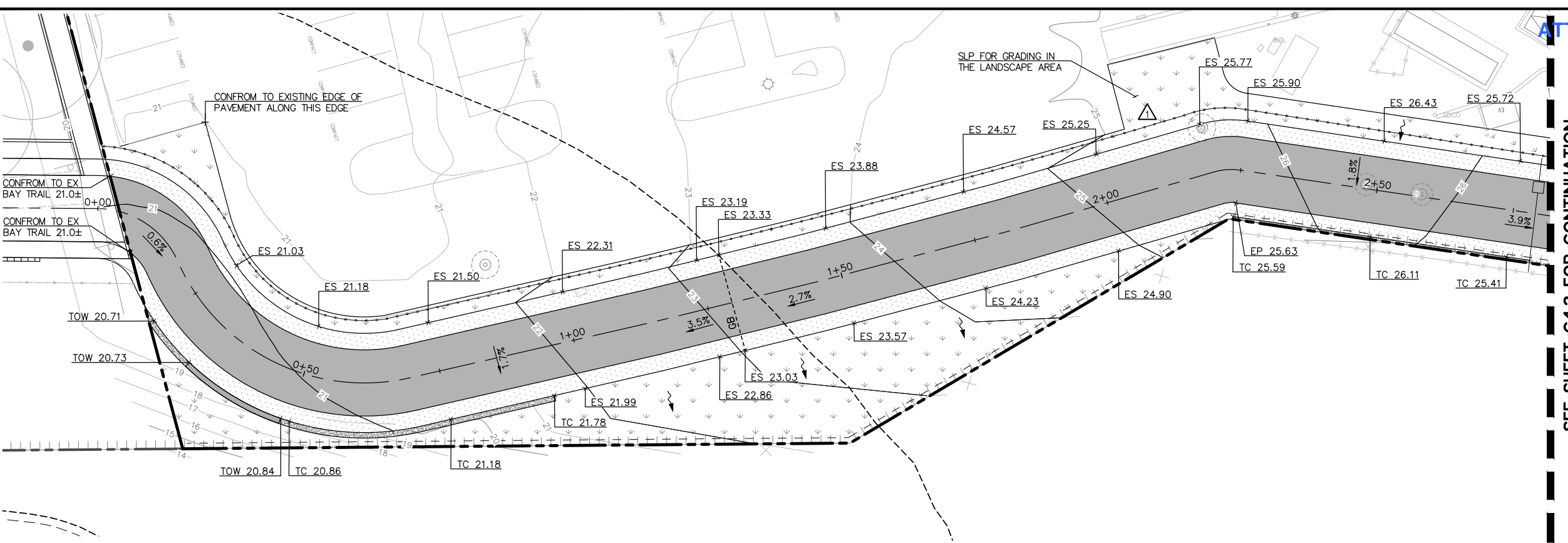
LANDSCAPE ARCHITECT:  
**TL**  
 1015 Camella St, Berkeley,  
 CA 94710

STRUCTURAL ENGINEER:

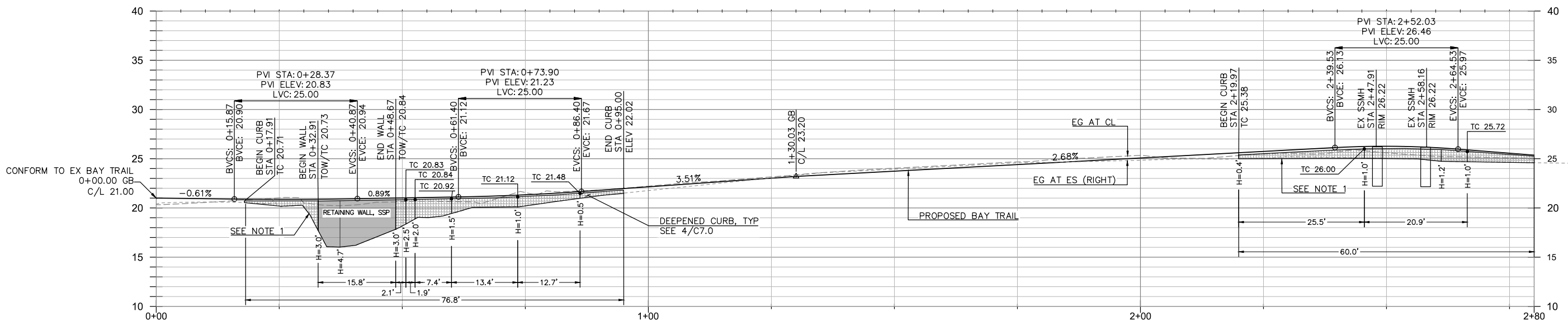


CITY OF BRISBANE  
 SAN MATEO COUNTY  
 CALIFORNIA

**1000 MARINA BOULEVARD**  
**BAY TRAIL PLAN AND PROFILE**

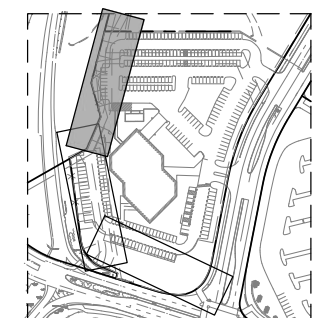
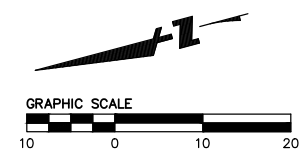


SEE SHEET C4.3 FOR CONTINUATION



**PROFILE**  
 SCALE: 1" = 20' HORIZ.  
 1" = 10' VERT.

- NOTES:**
1. EXPOSED PORTION OF RETAINING WALL AND DEEPENED CURBS IS SHOWN ON THE PROFILES. WALL AND CURB ARE DEEPER. FOR WALL DETAILS SEE STRUCTURAL PLANS. FOR DEEPENED CURB DETAILS SEE DETAIL 4/C7.0.
  2. TOP OF WALL IS FLUSHED WITH BAY TRAIL. SEE LANDSCAPE PLANS FOR LOCATION AND DETAIL OF THE GUARDRAIL.
  3. ALL UTILITY BOXES TO BE ADJUSTED TO FINISHED GRADE BY THE CONTRACTOR.



**KEY MAP**  
 NTS

DRAWING NAME: \\bkf-r-c\vol14\2017\170365\_3000\_Mar\1000\_Mar\eng\1000\_Mar\1000\_Mar\plots\C4.2\_BAY TRAIL PLAN AND PROFILE.dwg  
 PLOT DATE: 01-13-23 PLOTTED BY: monu

Revisions	
No.	Description
4	PLAN CHECK RESPONSE 4
3	PLAN CHECK RESPONSE 3
1	PLAN CHECK RESPONSE

Date	08/24/2022
Scale	1" = 20'
Design	AR
Drawn	AR
Approved	LKY
Job No	20170365-11

Drawing Number:  
**C4.2**

CIVIL ENGINEER:  
 255 Shoreline Drive, Suite 200  
 Redwood City, CA 94065  
 LANDSCAPE ARCHITECT:  
**TL**  
 1015 Camella St, Berkeley,  
 CA 94710  
 STRUCTURAL ENGINEER:



CALIFORNIA

**1000 MARINA BOULEVARD**  
**BAY TRAIL PLAN AND PROFILE**

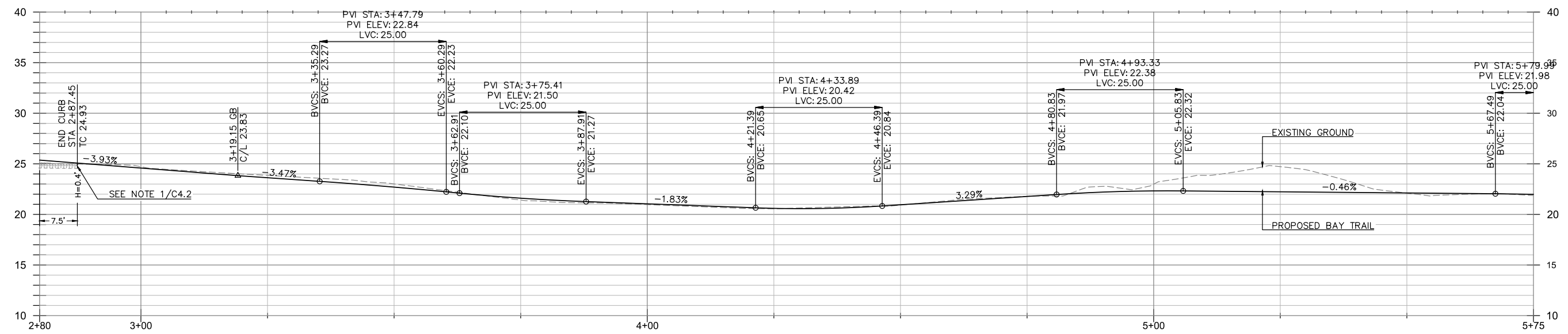
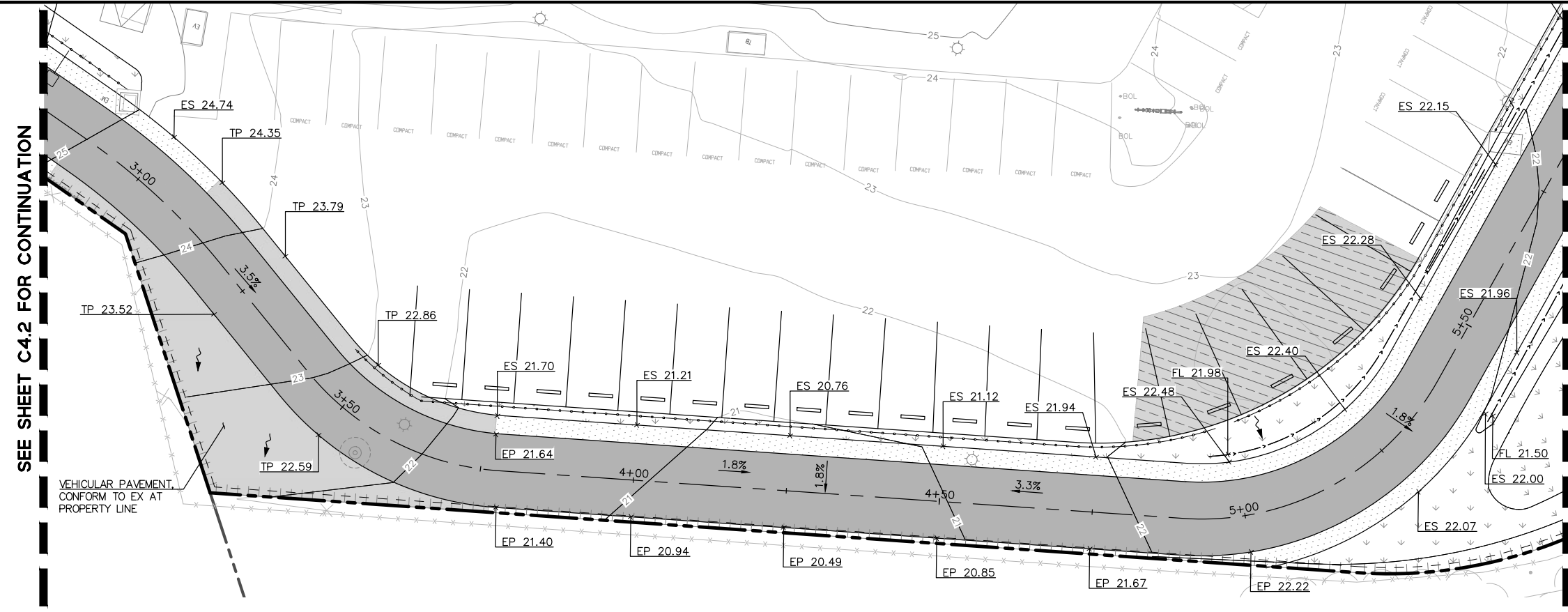
SAN MATEO COUNTY  
 CITY OF BRISBANE

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1	PLAN CHECK RESPONSE

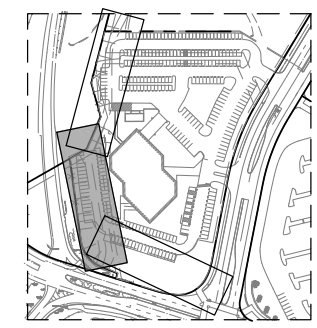
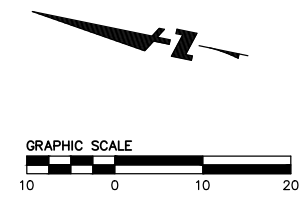
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 Drawn: AR  
 Approved: LKY  
 Job No: 20170365-11  
 Drawing Number:  
**C4.3**

SEE SHEET C4.2 FOR CONTINUATION

SEE SHEET C4.4 FOR CONTINUATION



**PROFILE**  
 SCALE: 1" = 20' HORIZ.  
 1" = 10' VERT.



**KEY MAP**  
 NTS

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 PLOT DATE: 01-13-23  
 PLOTTED BY: monu



**PHASE 3**  
REAL ESTATE PARTNERS

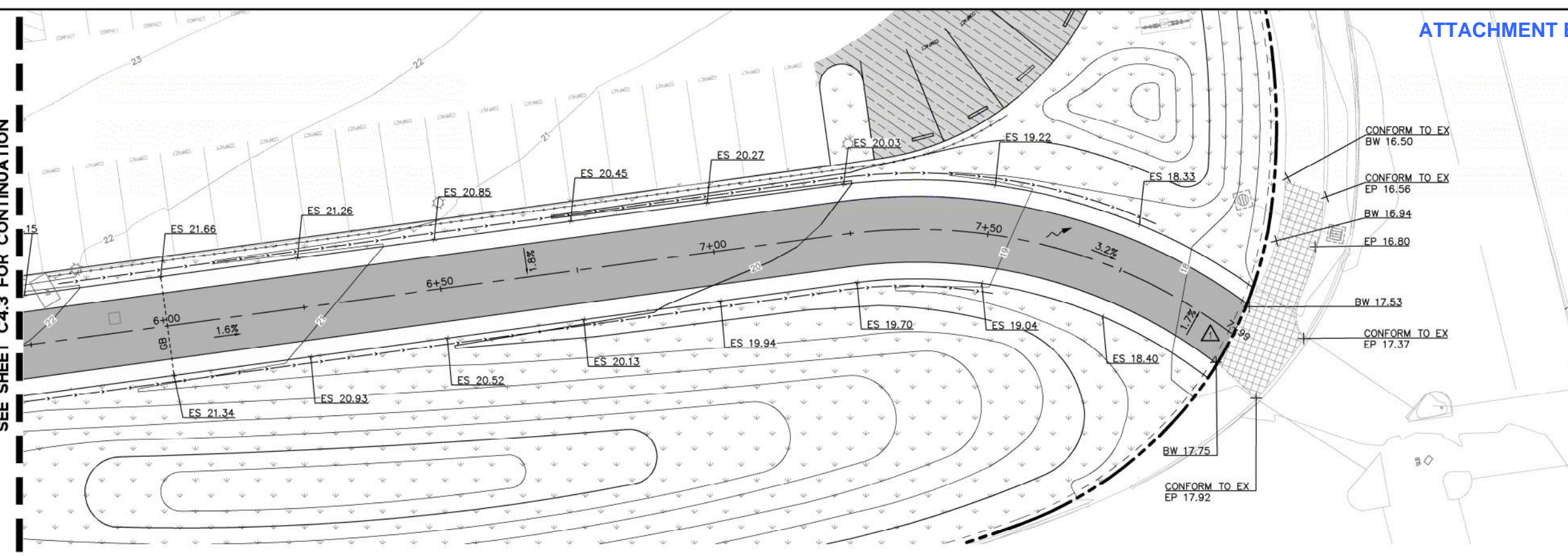
CIVIL ENGINEER:  
**BKF**  
255 Shoreline Drive, Suite 200  
Redwood City, CA 94065

LANDSCAPE ARCHITECT:  
**TLS**  
1015 Carleia St. Berkeley, CA 94710

STRUCTURAL ENGINEER:

REGISTERED PROFESSIONAL ENGINEER  
**THOMAS R. MORSE**  
No. 49457  
EXP. 09/30/24  
CIVIL  
STATE OF CALIFORNIA

SEE SHEET C4.3 FOR CONTINUATION



CONFORM TO EX  
BW 16.50

CONFORM TO EX  
EP 16.56

BW 16.94

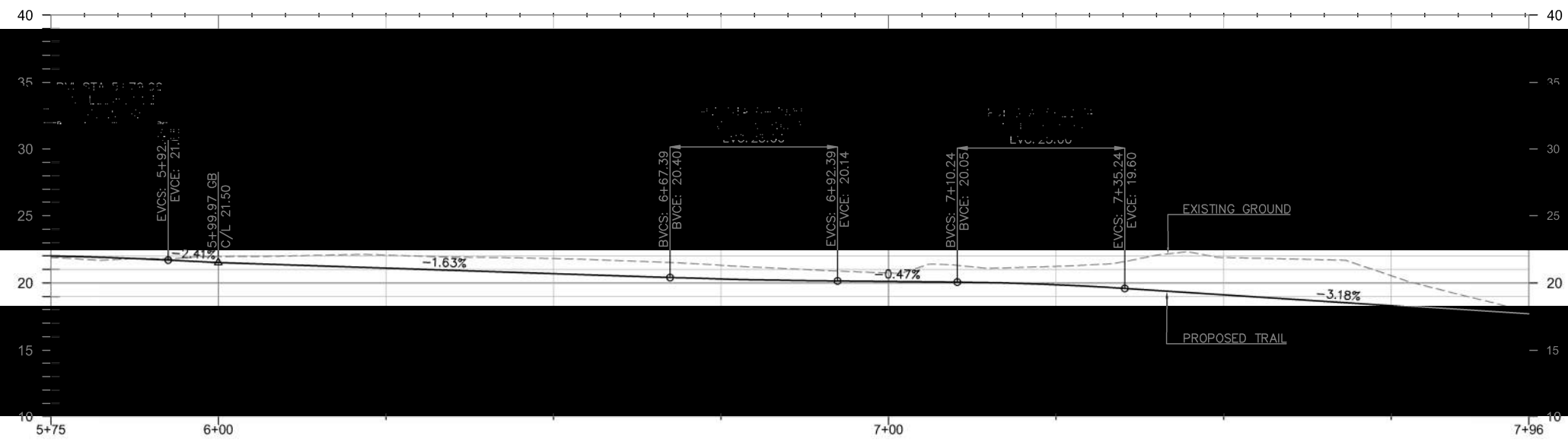
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BW 17.53

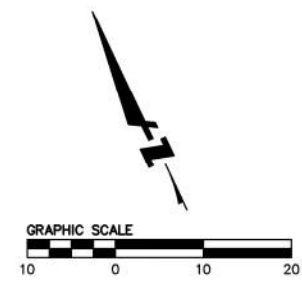
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BW 17.75

CONFORM TO EX  
EP 17.92



**PROFILE**  
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1" = 10' VERT.

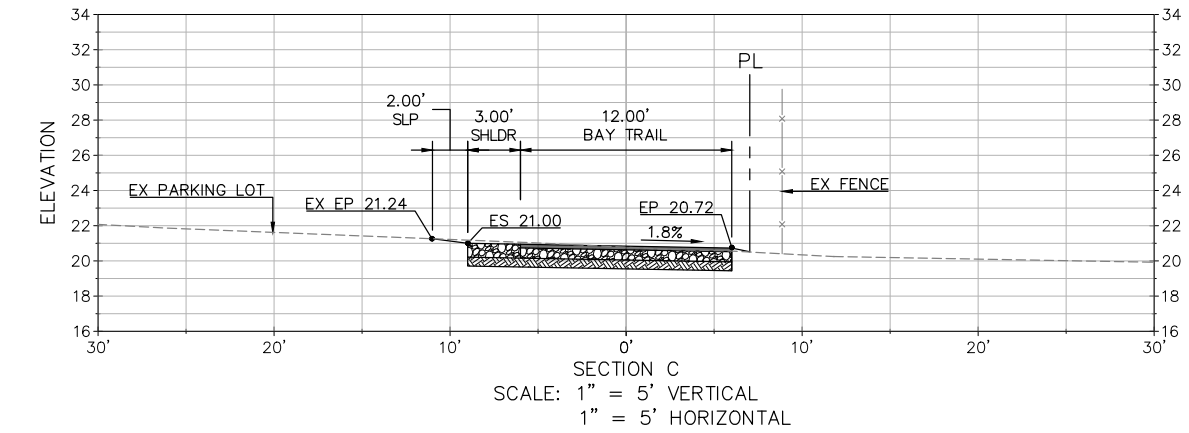
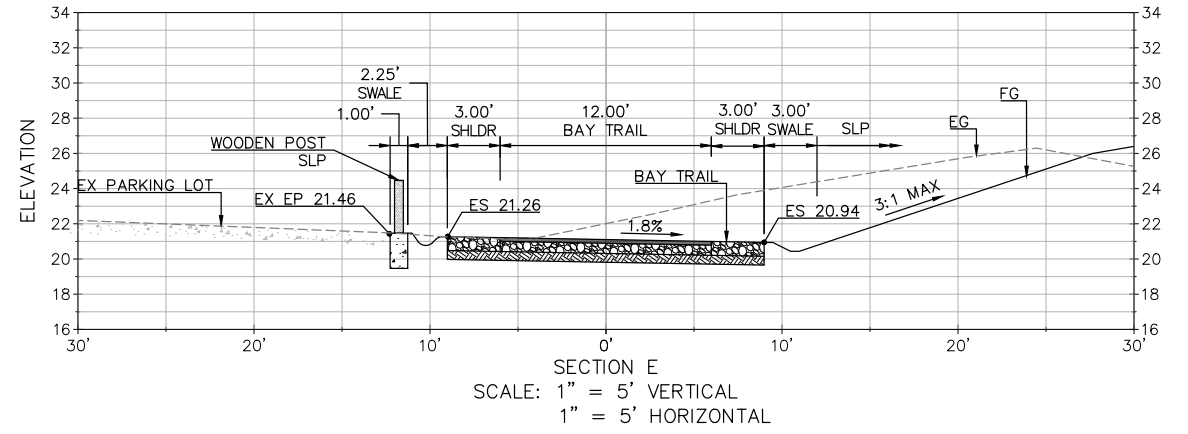
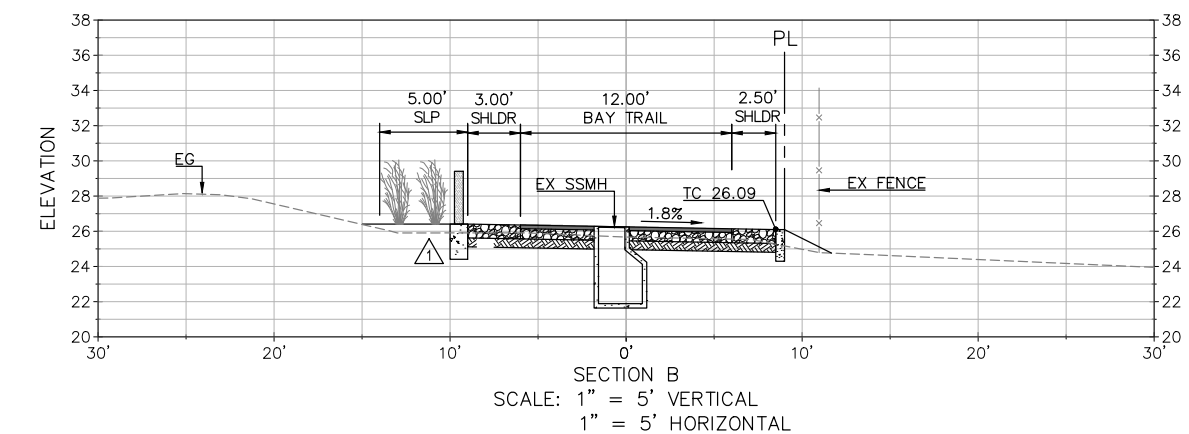
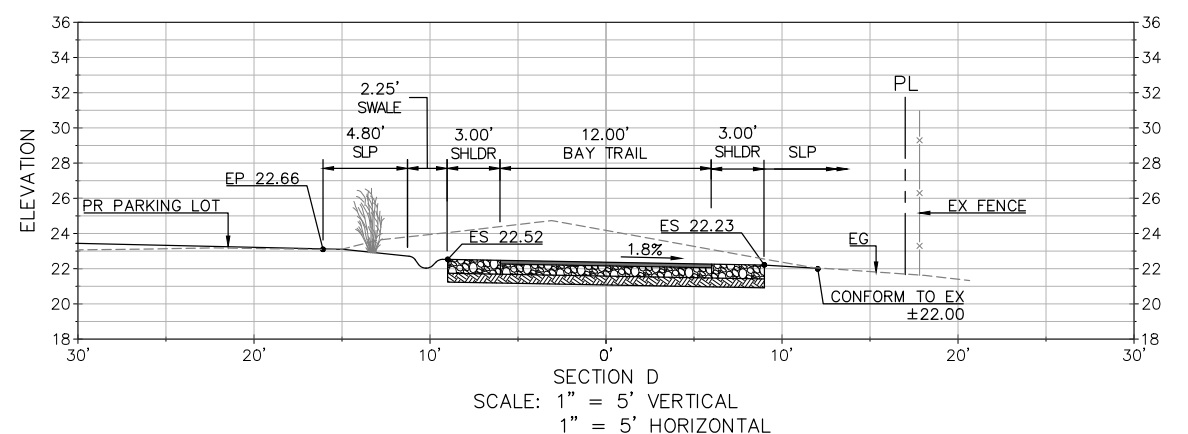
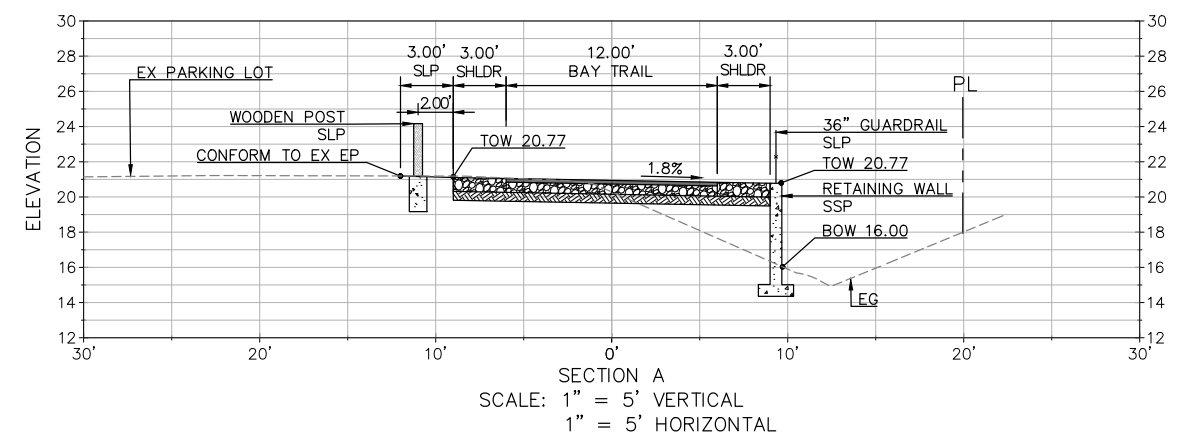


**KEY MAP**  
NTS

**1000 MARINA BOULEVARD**  
**BAY TRAIL PLAN AND PROFILE**

CITY OF SAN MATEO		SAN MATEO COUNTY		CALIFORNIA	
Revisions					
No.	Date	Design	Drawn	Approved	Job No.
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Drawing Number: <b>C4.4</b>					

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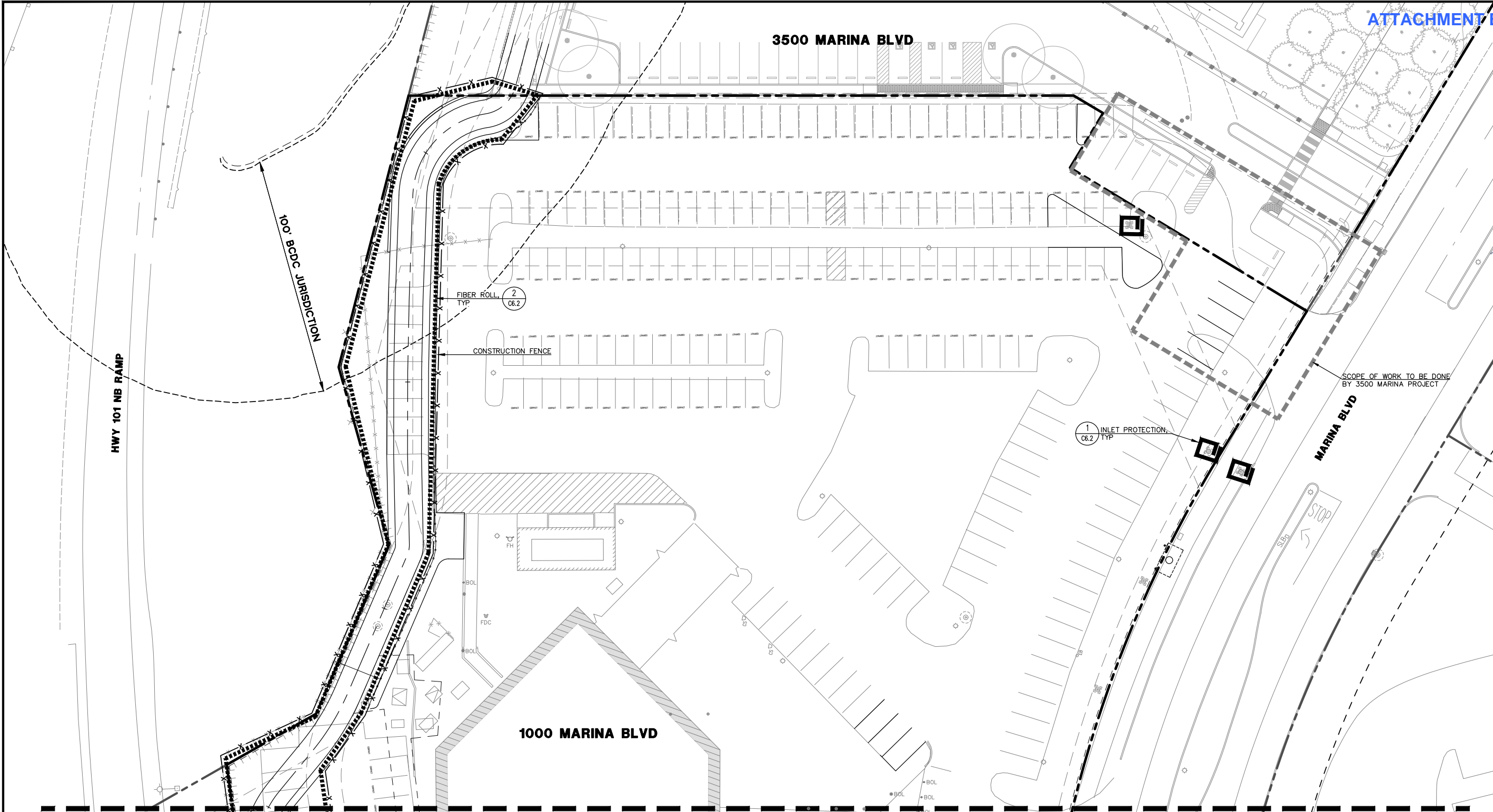
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PLOTTED BY: monu

Revisions	
No.	Date
4	01/17/2023
3	01/04/2023
1	10/26/2022

Date: 08/24/2022  
Scale: 1" = 20'  
Design: AR  
Drawn: AR  
Approved: LKY  
Job No: 20170365-11  
Drawing Number: **C5.0**

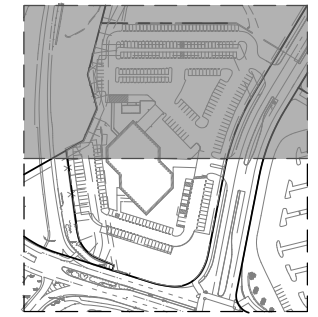
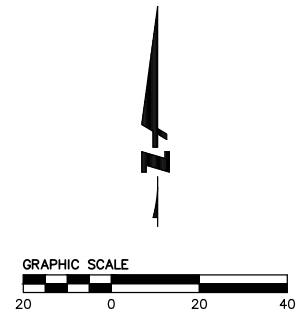


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 PLOT DATE: 01-13-23  
 PLOTTED BY: manu



SEE SHEET C6.1 FOR CONTINUATION

- LEGEND:**
- x — x — CONSTRUCTION FENCE
  - FIBER ROLL
  - INLET PROTECTION



KEY MAP  
NTS

ATTACHMENT

PHASE 3

CIVIL ENGINEER:  
 T.R.F.  
 255 Shoreline Drive, Suite 200  
 Redwood City, CA 94065  
 LANDSCAPE ARCHITECT:  
 T.L.S.  
 1015 Camella St, Berkeley,  
 CA 94710  
 STRUCTURAL ENGINEER:



1000 MARINA BOULEVARD  
 EROSION CONTROL PLAN

CITY OF BRISBANE  
 SAN MATEO COUNTY  
 CALIFORNIA

Revisions	
No.	Date
4	01/17/2023
3	01/04/2023
1	10/26/2022

Date: 08/24/2022  
 Scale: 1"=20'  
 Design: AR  
 Drawn: AR  
 Approved: LKY  
 Job No: 20170365-11  
 Drawing Number:  
**C6.0**

SEE SHEET C6.0 FOR CONTINUATION

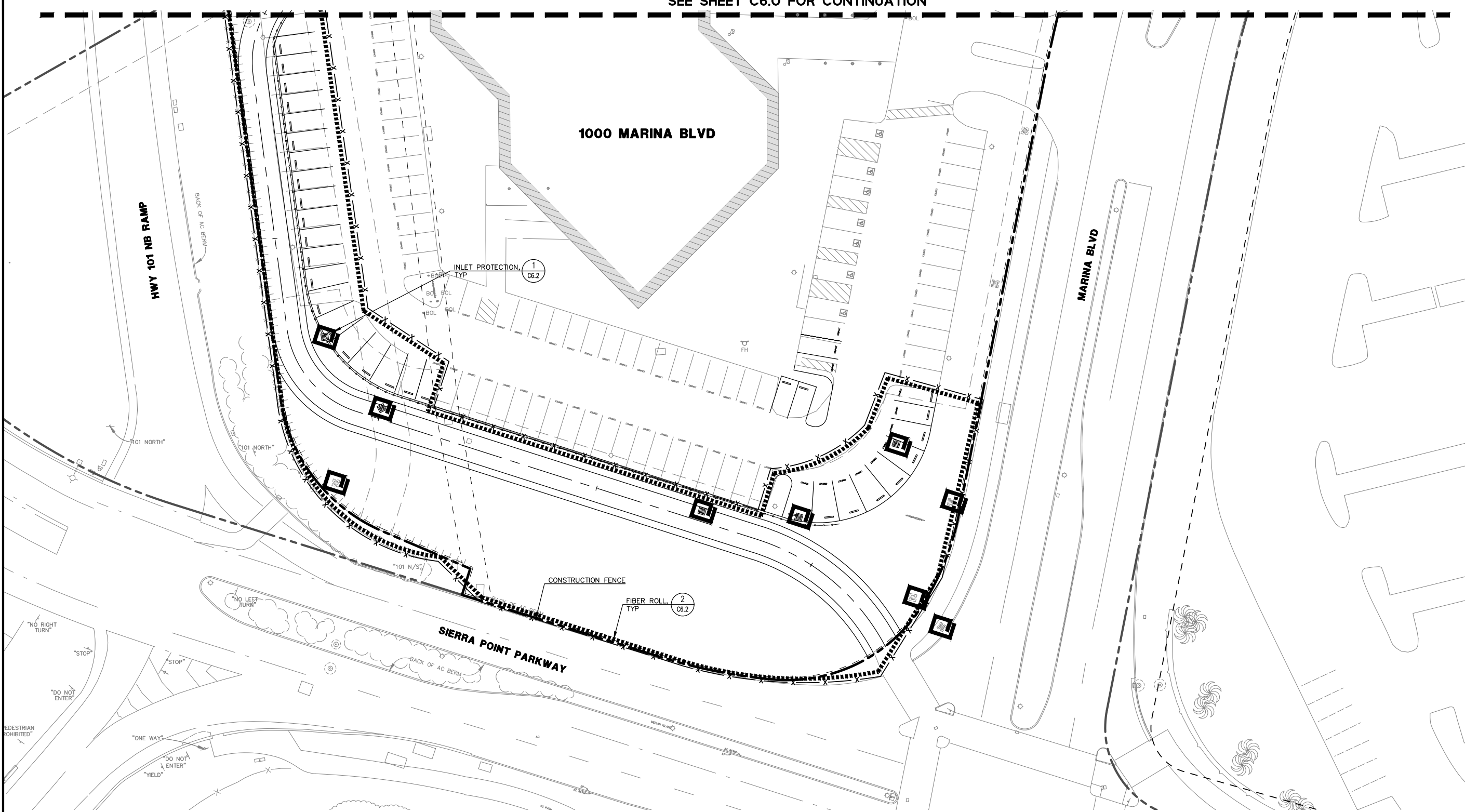
1000 MARINA BLVD

HWY 101 NB RAMP

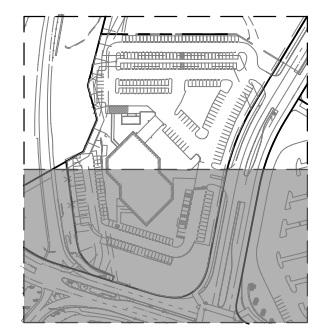
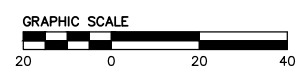
MARINA BLVD

SIERRA POINT PARKWAY


DRAWING NAME: K:\2017\170365\_3000\_Mar.ino\CD\PLOTS\C6.0 EROSION CONTROL PLAN.dwg  
PLOT DATE: 10-21-22  
PLOTTED BY: kase




- LEGEND:**
- CONSTRUCTION FENCE
  - FIBER ROLL
  - INLET PROTECTION



KEY MAP  
NTS

CIVIL ENGINEER:  
  
 255 Shoreline Drive, Suite 200  
 Redwood City, CA 94065

LANDSCAPE ARCHITECT:  
  
 1015 Camella St, Berkeley,  
 CA 94710

STRUCTURAL ENGINEER:



**1000 MARINA BOULEVARD**  
**EROSION CONTROL PLAN**

CITY OF BRISBANE  
 SAN MATEO COUNTY  
 CALIFORNIA

Revisions	
No.	Description
4	PLAN CHECK RESPONSE 4
3	PLAN CHECK RESPONSE 3
1	PLAN CHECK RESPONSE

Date: 08/24/2022  
 Scale: 1"=20'  
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 Approved: LKY  
 Job No: 20170365-11

Drawing Number:  
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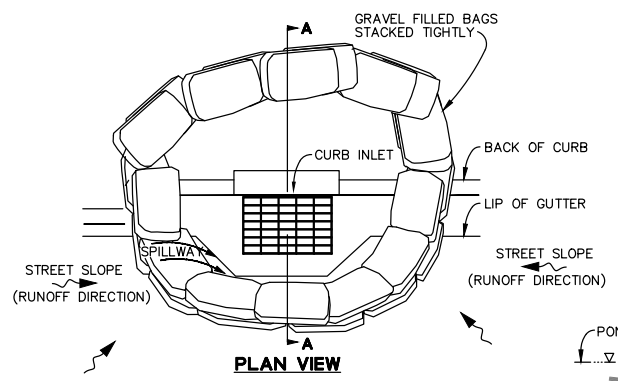


**EROSION & SEDIMENT CONTROL NOTES**

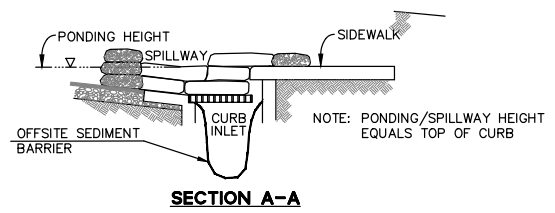
- THE CONTRACTOR WILL IMPLEMENT APPLICABLE CONSTRUCTION EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S) THROUGHOUT THE PHASES OF CONSTRUCTION OF THE PROJECT SITE. THE CONTRACTOR WILL BE AWARE THAT THE EROSION CONTROL MEASURES AND LAYOUT IDENTIFIED ON THIS PLAN SHEET ASSUMES THAT THE STREET HAS BEEN GRADED TO SUBGRADE AND PROPOSED STORM DRAINAGE STRUCTURES AND PIPE HAVE BEEN INSTALLED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE REVISIONS AND/OR UPDATES TO THE EROSION PLAN IN ACCORDANCE WITH THE DIFFERENT STAGES OF GRADING OPERATIONS DURING THE RAINY SEASON (OCTOBER 1 TO APRIL 15) AS REQUIRED BY THE CITY PUBLIC WORKS ENGINEER AND STATE REGULATORS.
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING SEDIMENT-LADEN STORM RUNOFF FROM LEAVING THE SITE. CATCH BASIN INSERTS, GRAVEL BAGS, FIBER ROLLS, EARTHEN DIKES, EROSION CONTROL MATS/FABRICS AND FILTER PUMPS WILL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM. EXISTING, TEMPORARY, OR PERMANENT CATCH BASINS WILL USE SEDIMENT BARRIERS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO PUBLIC AND/OR PRIVATELY OWNED AND MAINTAINED ROADS CAUSED BY THE CONTRACTOR'S GRADING ACTIVITIES, AND WILL BE RESPONSIBLE FOR THE CLEANUP OF MATERIAL SPILLED ON PUBLIC ROAD ON THE HAUL ROUTE. ADJACENT PUBLIC AND/OR PRIVATE ROADS WILL BE CLEANED AT THE END OF THE WORK DAY.
- DURING THE RAINY SEASON, ALL PAVED AREAS ARE TO BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE IS TO BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.
- ALL EROSION CONTROL FACILITIES MUST BE MONITORED. ALL SLOPES WILL BE REPAIRED AS SOON AS POSSIBLE WHEN DAMAGED.
- ALL TRUCK TIRES WILL BE CLEANED PRIOR TO EXITING THE PROPERTY.
- STOCKPILED MATERIAL
  - EXCAVATED SOILS SHOULD NOT BE PLACED IN STREETS OR ON PAVED AREAS.
  - ANY EXCAVATED SOILS SHOULD BE REMOVED FROM THE SITE BY THE END OF THE DAY, UNLESS STOCKPILING IS NECESSARY.
  - SURROUND ALL STOCKPILES WITH PERIMETER SILT FENCES, FIBER ROLLS, APPROPRIATELY SIZED SECONDARY CONTAINMENT, OR OTHER RUNOFF CONTROLS.
  - STABILIZE INACTIVE STOCKPILES WITH SOIL STABILIZER AND/OR MULCH, OR COVER WITH A TARPULIN.
  - COVER STOCKPILES OF CRUSHED AC OR PCC PAVEMENT WITH A TARPULIN OR PROVIDE CASE-SPECIFIC DESIGNED SECONDARY CONTAINMENT AND SURROUND WITH APPROPRIATE RUNOFF CONTROLS.
  - USE INLET PROTECTION FOR STORM DRAIN STRUCTURES ADJACENT TO THE MATERIAL.
  - THOROUGHLY SWEEP ALL PAVED AREAS EXPOSED TO SOIL EXCAVATION PLACEMENT.
- DURING CONSTRUCTION, THE MAINTENANCE OF SUMMERTIME DRAINAGE THROUGH THE SITE IS THE RESPONSIBILITY OF THE CONTRACTOR.
- AS SOON AS IS PRACTICAL AFTER THE NEW ONSITE STORM SYSTEM IS INSTALLED, THE CATCH BASINS WILL BE INSTALLED. EROSION CONTROL DEVICES WILL BE IN OR AROUND THOSE CATCH BASINS AS SHOWN ON THE APPROVED EROSION CONTROL PLAN. CONTRACTOR IS RESPONSIBLE FOR PREVENTING GRAVEL AND DIRT FROM ENTERING THE STORM DRAIN SYSTEM AND WILL REMOVE DEBRIS IN THE STORM DRAIN LINES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THIS EROSION CONTROL PLAN WILL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE CITY PUBLIC WORKS ENGINEER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT TEMPORARY BORROW AREAS AND/OR STOCKPILES WITH THE APPROPRIATE EROSION CONTROL MEASURES SATISFACTORY TO THE CITY PUBLIC WORKS ENGINEER.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DURING GRADING OPERATION, BEFORE APRIL 15 AND PRIOR TO INSTALLATION OF STORM DRAINAGE SYSTEM. SUCH ADDITIONAL MEASURES WILL BE CONTINGENT UPON THE STAGE OF GRADING OPERATION. CONTRACTOR WILL IMPLEMENT ADDITIONAL EROSION CONTROL MEASURES AS REQUIRED BY THE ENGINEER OR CITY PUBLIC WORKS ENGINEER.
- THE SURFACE OF CUT SLOPES MORE THAN 4 FEET IN HEIGHT AND FILL SLOPES MORE THAN 3 FEET IN HEIGHT WILL BE PROTECTED AGAINST EROSION BY PLANTING WITH GRASS OR GROUNDCOVER PLANTS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING LIMITS OF WORK AS SHOWN ON THE IMPROVEMENT PLANS. SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
- TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
- ERODED SEDIMENTS AND OTHER POLLUTANTS WILL BE RETAINED ON-SITE AND ARE PROHIBITED FROM BEING TRANSPORTED FROM THE SITE VIA SHEETFLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
- CONSTRUCTION PROJECTS SHALL BE CONDUCTED IN A MANNER WHICH PREVENTS THE RELEASE OF HAZARDOUS MATERIALS, HAZARDOUS WASTE, POLLUTED WATER AND SEDIMENTS TO THE STORM DRAIN SYSTEM. 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. 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.
- REMOVE SILT AND DISPOSE OF SO AS NOT TO CAUSE SILTATION PROBLEMS.
- PREVENT WATER FROM FLOWING AROUND THE ENDS OF THE EROSION CONTROL BARRIER.
- EXCEPT AS OTHERWISE DIRECTED BY THE INSPECTOR, DEVICES SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE AT THE END OF EACH WORK DAY AND EROSION CONTROL FACILITIES MUST BE INSPECTED AT THE END OF EACH WORKING DAY DURING THE RAINY SEASON.
- STANDBY CREWS WILL BE ALERTED BY THE PERMITEE OR CONTRACTOR FOR EMERGENCY WORK DURING RAIN STORMS.

**DUST CONTROL NOTES**

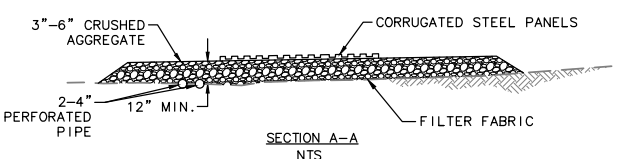
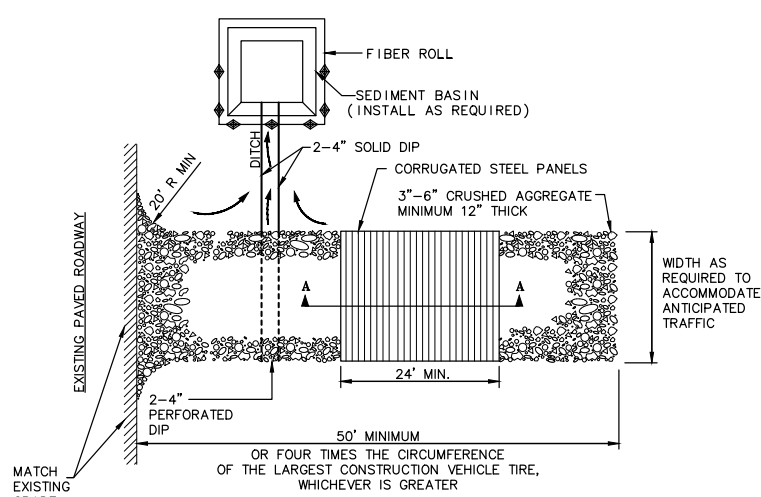
- ALL ACTIVE CONSTRUCTION AREAS WILL BE WATERED AT LEAST TWICE DAILY.
- ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS WILL BE COVERED OR WILL RETAIN AT LEAST TWO FEET OF FREEBOARD.
- ALL UNPAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITE WILL BE EITHER PAVED, WATERED THREE TIMES DAILY, OR TREATED WITH NON-TOXIC SOIL STABILIZERS.
- ALL PAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITE WILL BE SWEEPED (WITH WATER SWEEPERS) DAILY.
- IF VISIBLE SOIL MATERIAL IS CARRIED ONTO PUBLIC STREETS, THE STREET WILL BE SWEEPED (WITH WATER SWEEPERS) DAILY.



- NOTES:**
- PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREETS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
  - PERVIOUS BAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
  - LEAVE ONE BAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY OVERFLOW. TOP OF SPILLWAY WILL BE LOWER THAN TOP OF CURB.
  - INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT, AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

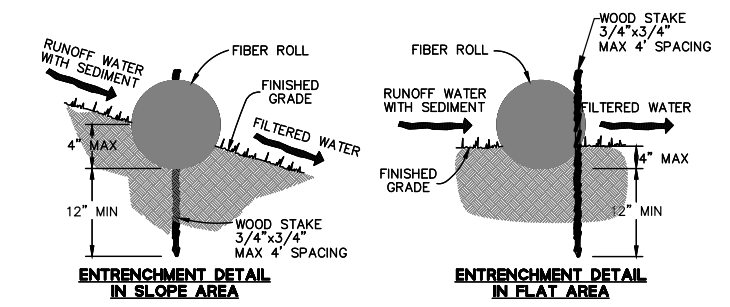


**1 CURB INLET GRAVEL BAG PROTECTION**  
NTS



- NOTES:**
- ALL CONSTRUCTION ENTRANCES WILL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USE TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS WILL BE REMOVED IMMEDIATELY.
  - WHEELS WILL BE CLEAN PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT WILL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE THROUGH USE OF INLET PROTECTION (E.G. SAND BAGS OR OTHER APPROVED METHODS).
  - THE MATERIAL FOR CONSTRUCTION OF THE PAD SHALL BE 3" TO 6" STONE.
  - THE THICKNESS OF THE PAD WILL NOT BE LESS THAN 12".
  - THE WIDTH OF THE PAD WILL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
  - THE LENGTH OF THE PAD WILL NOT BE LESS THAN 50'.

**3 STABILIZED CONSTRUCTION ENTRANCE/EXIT**  
NTS



- NOTES:**
- FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" TO 4" DEEP, DUG ON CONTOUR.
  - ADJACENT ROLLS WILL TIGHTLY ABUT.
  - RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL.

**2 FIBER ROLL**  
NTS

DRAWING NAME: \\bkf-r-c\vol14\2017\170365\_3000\_Merino\CD\PLOTS\C6.0.EROSION CONTROL PLAN.dwg PLOTTED BY: monu DATE: 01-13-23

CIVIL ENGINEER: [Signature] 255 Shoreline Drive, Suite 200 Redwood City, CA 94065  
 LANDSCAPE ARCHITECT: [Signature] 1015 Camella St. Berkeley, CA 94710  
 STRUCTURAL ENGINEER: [Signature]

REGISTERED PROFESSIONAL ENGINEER  
 THOMAS R. MORSE  
 No. 49457  
 EXP. 09/30/24  
 CIVIL  
 STATE OF CALIFORNIA

1000 MARINA BOULEVARD  
 EROSION CONTROL DETAILS  
 CITY OF BRISBANE  
 SAN MATEO COUNTY  
 CALIFORNIA

Date	Scale	Design	Drawn	Approved	Job No.
08/24/2022	1"=20'	AR	AR	LKY	20170365-11

Revisions

No.	Description	Date
4	PLAN CHECK RESPONSE 4	01/17/2023
3	PLAN CHECK RESPONSE 3	01/04/2023
1	PLAN CHECK RESPONSE	10/26/2022

Drawing Number: **C6.2**



Date	08/24/2022	No.	
Scale	1"=20'	Revisions	
Design	AR	4	PLAN CHECK RESPONSE 4
Drawn	AR	3	PLAN CHECK RESPONSE 3
Approved	LKY	1	PLAN CHECK RESPONSE
Job No.	20170365-11		

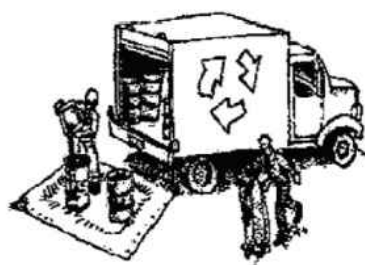


SAN MATEO COUNTYWIDE  
**Water Pollution Prevention Program**  
Clean Water. Healthy Community.

# Construction Best Management Practices (BMPs)

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

## Materials & Waste Management



- Non-Hazardous Materials**
- Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.
  - Use (but don't overuse) reclaimed water for dust control.
- Hazardous Materials**
- Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
  - Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
  - Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
  - Arrange for appropriate disposal of all hazardous wastes.

- Waste Management**
- Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
  - Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
  - Clean or replace portable toilets, and inspect them frequently for leaks and spills.
  - Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
  - Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

- Construction Entrances and Perimeter**
- Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
  - Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

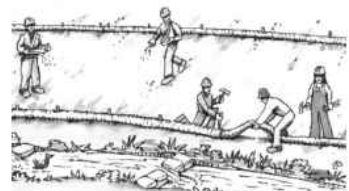
## Equipment Management & Spill Control



- Maintenance and Parking**
- Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
  - Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
  - If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan or drop cloths big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
  - If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
  - Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, or steam cleaning equipment.

- Spill Prevention and Control**
- Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
  - Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
  - Clean up spills or leaks immediately and dispose of cleanup materials properly.
  - Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
  - Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
  - Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
  - Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

## Earthmoving



- Schedule grading and excavation work during dry weather.
- Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- Remove existing vegetation only when absolutely necessary, and seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.
- Prevent sediment from migrating offsite and protect storm drain inlets, gutters, ditches, and drainage courses by installing and maintaining appropriate BMPs, such as fiber rolls, silt fences, sediment basins, gravel bags, berms, etc.
- Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

- Contaminated Soils**
- If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
    - Unusual soil conditions, discoloration, or odor.
    - Abandoned underground tanks.
    - Abandoned wells
    - Buried barrels, debris, or trash.

## Paving/Asphalt Work



- Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc.
- Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.
- Do not use water to wash down fresh asphalt concrete pavement.

### Sawcutting & Asphalt/Concrete Removal

- Protect nearby storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- Shovel, absorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- If sawcut slurry enters a catch basin, clean it up immediately.

## Concrete, Grout & Mortar Application



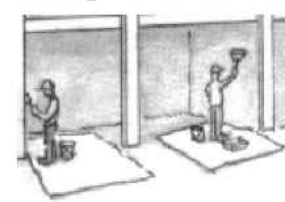
- Store concrete, grout, and mortar away from storm drains or waterways, and on pallets under cover to protect them from rain, runoff, and wind.
- Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit, and in a manner that will prevent leaching into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as garbage.
- When washing exposed aggregate, prevent washwater from entering storm drains. Block any inlets and vacuum gutters, hose washwater onto dirt areas, or drain onto a bermed surface to be pumped and disposed of properly.

## Landscaping



- Protect stockpiled landscaping materials from wind and rain by storing them under tarps all year-round.
- Stack bagged material on pallets and under cover.
- Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

## Painting & Paint Removal



- Painting Cleanup and Removal**
- Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream.
  - For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm drain.
  - For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste.
  - Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
  - Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead based paint removal requires a state-certified contractor.

## Dewatering



- Discharges of groundwater or captured runoff from dewatering operations must be properly managed and disposed. When possible send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer call your local wastewater treatment plant.
- Divert run-on water from offsite away from all disturbed areas.
- When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- In areas of known or suspected contamination, call your local agency to determine whether the ground water must be tested. Pumped groundwater may need to be collected and hauled off-site for treatment and proper disposal.

**Storm drain polluters may be liable for fines of up to \$10,000 per day!**



# LANDSCAPE DRAWINGS, NOTES, LEGENDS, SYMBOLS AND ABBREVIATIONS

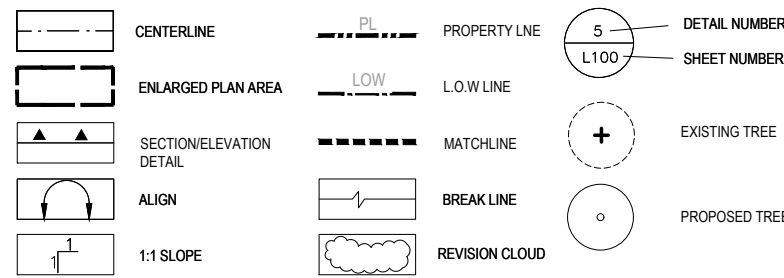
ATTACHMENT E

PHASE 3

## GENERAL NOTES

- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- PERFORM THE WORK IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS, AND APPLICABLE REQUIREMENTS OF THE CITY OF BRISBANE, COUNTY OF SAN MATEO AND OTHER REGULATORY AGENCIES.
- UNLESS OTHERWISE SPECIFIED, SPECIFIC REFERENCES TO CODES, REGULATIONS, STANDARDS, MANUFACTURER'S INSTRUCTIONS, OR REQUIREMENTS OF REGULATORY AGENCIES, WHEN USED TO SPECIFY REQUIREMENTS FOR MATERIALS OF DESIGN ELEMENTS, SHALL MEAN THE LATEST EDITION OF EACH IN EFFECT ON THE DATE OF SUBMISSION OF BIDS, OR THE DATE OF THE CHANGE ORDER OF FIELD ORDER, AS APPLICABLE.
- THE INTENT OF THE DRAWINGS AND SPECIFICATIONS ARE TO CONSTRUCT THE WORK INDICATED ON THE LANDSCAPE DRAWINGS IN ACCORDANCE WITH CALIFORNIA ACCESSIBILITY STANDARDS, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.
- REPORT DISCREPANCIES IN DRAWINGS OR SPECIFICATIONS TO THE OWNER'S REPRESENTATIVE FOR CLARIFICATIONS AND ADJUSTMENTS BEFORE COMMENCING WORK. ANY DEVIATIONS OR CHANGES IN THESE DRAWINGS WITHOUT WRITTEN ACCEPTANCE OF THE OWNER'S REPRESENTATIVE SHALL ABSOLVE THE OWNER'S REPRESENTATIVE AND THE DESIGN LANDSCAPE ARCHITECT OF ANY AND ALL RESPONSIBILITY OF SAID DEVIATION AND CHANGE.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- THE EXACT LOCATION AND ELEVATION OF UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR. IF SHOWN, EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS, BASED UPON RECORD INFORMATION AVAILABLE TO THE LANDSCAPE ARCHITECT AT THE TIME OF PREPARATION OF THESE PLANS. LOCATION MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY AND COMPLETENESS OF THE INFORMATION SHOWN.
- OBTAIN ACCEPTANCE OF HORIZONTAL ALIGNMENT OF ELEMENTS IN THE FIELD FROM OWNER'S REPRESENTATIVE PRIOR TO INSTALLMENT.
- PROTECT FROM DAMAGE EXISTING UTILITIES ON THE SITE AND ON THE ADJACENT PROPERTY, INCLUDING BUT NOT LIMITED TO, WATER, SEWER, DRAINAGE, TELEPHONE AND SERVICES THAT ARE TO REMAIN IN PLACE.
- PROTECT FROM DAMAGE EXISTING STREETS, SIDEWALKS AND ADJACENT PROPERTY THROUGHOUT THE WORK.
- IF LIVE UTILITIES ARE ENCOUNTERED, NOT INDICATED PREVIOUSLY, PROTECT THE SAME FROM DAMAGE AND IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE AND AFFECTED UTILITY PROVIDER. DO NOT PROCEED UNTIL FURTHER INSTRUCTIONS ARE RECEIVED.
- REFER TO GEOTECHNICAL AND POTHOLING FIELD REPORTS FOR PROPERTY EDGE CONDITIONS, CLAY CAP LAYER AND SOIL FILL.
- OBTAIN COPY OF AND BECOME FAMILIAR WITH POTHOLING SURVEY REPORT DATED 5/6/22 COMPLY WITH REQUIREMENTS THEREIN. REPORT THE SURFACE OF THE CLAY CAP LAYER SLOPES A MINIMUM OF 1% FOR POSITIVE DRAINAGE. DO NOT PENETRATE OR DAMAGE THE CLAY CAP. IF A DISCREPANCY OR CONFLICT IS FOUND BETWEEN PLANTING LAYOUT / PLANTING DETAILS AND CLAY CAP DETAILS NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY AND DO NOT PROCEED IN THAT AREA WITHOUT OWNER'S REPRESENTATIVE'S NOTIFICATION.
- CONFLICTS BETWEEN GEOTECHNICAL REPORT AND LANDSCAPE DOCUMENTS SHALL BE BROUGHT TO OWNER'S REPRESENTATIVE'S ATTENTION.
- VERIFY LOCATION OF SUBSURFACE UTILITIES, PIPES AND STRUCTURES. SHOULD UTILITIES OR OTHER WORK NOT SHOWN ON THE PLANS BE FOUND DURING EXCAVATIONS, PROMPTLY NOTIFY OWNER'S REPRESENTATIVE. FAILURE TO DO SO WILL MAKE CONTRACTOR LIABLE FOR DAMAGE ARISING FROM THEIR OPERATIONS SUBSEQUENT TO DISCOVERY OF UTILITIES NOT SHOWN ON PLANS.
- REFER TO CIVIL DOCUMENTS FOR ADDITIONAL INFORMATION RELATED TO AND PART OF THE WORK SHOWN IN THESE DRAWINGS.
- ALL WORK WITHIN THE CITY OF BRISBANE RIGHT OF WAY SHALL CONFORM TO CURRENT CITY AND COUNTY STANDARDS UNLESS OTHERWISE ACCEPTED IN WRITING BY THE CITY.
- REFER CIVIL DRAWINGS FOR LAYOUT AND GRADING OF BAY TRAIL.

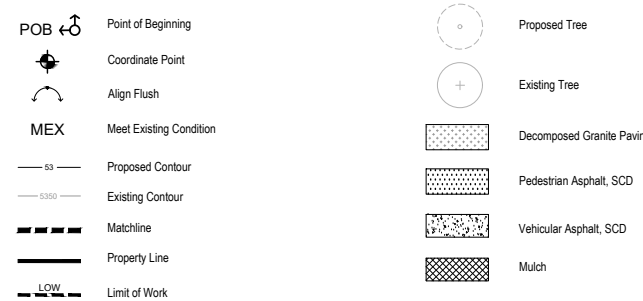
## GENERAL - ALL SHEETS



## SHEET LIST

Sheet No.	Sheet Title	Scale
L0.00	LANDSCAPE SHEET INDEX, NOTES, LEGENDS, SYMBOLS, ABBREVIATIONS	N.A.
L0.10	LANDSCAPE ILLUSTRATIVE SITE PLAN	1"=32'
L0.20	SHEET KEY PLAN	1"=32'
L0.5.00	ARBORIST ASSESSMENT REPORT	N.A.
L0.5.01	ARBORIST ASSESSMENT REPORT	N.A.
L0.5.02	ARBORIST ASSESSMENT REPORT	N.A.
L0.6.00A	TREE PROTECTION AND REMOVAL NOTES/DETAILS	N.A.
L0.6.00B	TREE PROTECTION AND REMOVAL SCHEDULE	N.A.
L0.6.01	TREE PROTECTION AND REMOVAL PLAN - AREA 1	1"=16'
L0.6.02	TREE PROTECTION AND REMOVAL PLAN - AREA 2	1"=16'
L1.1.01	LANDSCAPE LAYOUT AND MATERIAL PLAN - AREA 1	1"=16'
L1.1.02	LANDSCAPE LAYOUT AND MATERIAL PLAN - AREA 2	1"=16'
L1.4.01	LANDSCAPE SOILS PLAN - AREA 1	1"=16'
L1.4.02	LANDSCAPE SOILS PLAN - AREA 2	1"=16'
L1.5.01	LANDSCAPE IRRIGATION PLAN - AREA 1	1"=16'
L1.5.02	LANDSCAPE IRRIGATION PLAN - AREA 2	1"=16'
L1.5.03	IRRIGATION NOTES AND LEGEND	N.A.
L1.5.04	IRRIGATION DETAILS	AS SHOWN
L1.5.05	HYDROZONE PLAN - AREA 1	1"=16'
L1.5.06	HYDROZONE PLAN - AREA 2	1"=16'
L1.6.00	PLANTING LEGEND AND NOTES	N.A.
L1.6.01	PLANTING PLAN - AREA 1	1"=16'
L1.6.02	PLANTING PLAN - AREA 2	1"=16'
L2.1.1	CONCEPTUAL SECTIONS	AS SHOWN
L8.1.1	DETAILS-PAVING	AS SHOWN
L8.1.2	DETAILS-PAVING	AS SHOWN
L8.4.1	DETAILS-HEADERS	AS SHOWN
L8.4.2	DETAILS-GUARDRAIL AND FENCE	AS SHOWN
L8.7.1	DETAILS-PLANTING	AS SHOWN
L8.7.2	DETAILS-PLANTING	AS SHOWN
L8.7.3	DETAILS-PLANTING	AS SHOWN
L8.8.1	DETAILS-SITE FURNISHING AND SIGNAGE	AS SHOWN
L8.8.2	DETAILS-DESIGN-BUILD GUARDRAIL SYSTEM	AS SHOWN

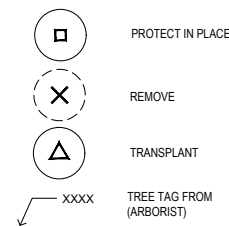
## LAYOUT AND MATERIAL LEGEND



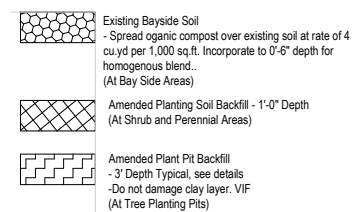
## ABBREVIATIONS

@	AT	EW	EACH WAY	PED	PEDESTRIAN	TSH	TOP OF STEEL HEADER
AC	ASPHALTIC CONCRETE	EX	EXISTING	PERF	PERFORATED	TW	TOP OF WALL
AD	AREA DRAIN	FFE	FINISH FLOOR ELEVATION	POC	POINT OF CONNECTION	TYP	TYPICAL
ADRE	AREA DRAIN RIM ELEVATION	FG	FINISHED GRADE	PT	POINT OF TANGENCY	UFC	UNIFORM FIRE CODE
ARCH	ARCHITECT	FH	FIRE HYDRANT	R	RADIUS	V	VOID STACK
B&B	BALL AND BURLAP	FL	FLOW LINE	RB	ROOT BARRIER	VEH	VEHICULAR
BC	BOTTOM OF CURB	FOC	FACE OF CURB	RGB	ROUNDED GRADE BREAK	VIF	VERIFY IN FIELD
BF	BOTTOM OF FENCE	FOW	FACE OF WALL	RIM	RIM ELEVATION	WWF	WELDED WIRE FABRIC
BLDG	BUILDING	FS	FINISH SURFACE	ROW	RIGHT OF WAY	WPM	WATER-PROOF MEMBRANE
BS	BOTTOM OF STEP	GB	GRADE BREAK	SAD	SEE ARCHITECTURAL DRAWINGS		
BSW	BACK OF SIDEWALK	GJ	GROUT JOINT	SCD	SEE CIVIL DRAWINGS		
BW	BOTTOM OF WALL	H	HANDICAP PARKING STALL	SD	STORM DRAIN		
CAL	CALIPER	HC	HANDICAP	SE	SEE ELECTRICAL DRAWINGS		
CB	CATCH BASIN	HDR	HEADER	SG	SUBGRADE		
CH	CONCRETE HEADER	HH	HANDHOLE	SH	STEEL HEADER		
CJ	CONTROL JOINT	HP	HIGH POINT	SHP	SWALE FLOWLINE HIGH POINT		
CL	CENTER LINE	HV	HANDICAP VAN PARKING STALL	SIM	SIMILAR		
CLR	CLEARANCE	ID	INSIDE DIAMETER	SJ	SCORE JOINT		
CMU	CONCRETE MASONRY UNIT	IE	INVERT ELEVATION	SPD	SEE PLUMBING DRAWING		
CO	CLEAN OUT	INV	INVERT ELEVATION	SS	STAINLESS STEEL		
COJ	CONSTRUCTION JOINT	LOW	LIMIT OF WORK	SSD	SEE STRUCTURAL DRAWINGS		
CONC	CONCRETE	LP	LOW POINT	STL	STEEL		
CONT	CONTINUOUS	MAX	MAXIMUM	TA	TOP OF RETENTION ANGLE		
CP	CENTER POINT	MFR	MANUFACTURER	TB	TOP OF BENCH		
DI	DROP INLET	MH	MANHOLE	TC	TOP OF CURB		
DIA	DIAMETER	MIN	MINIMUM	TG	TOP OF GUTTER		
DN	DOWN	MM	MILLIMETERS	TF	TOP OF FOOTING		
(E)	EXISTING	(N)	NEW	TH	TOP OF HEADER		
EA	EACH	NIC	NOT IN CONTRACT	TPTL	TREE PLANTING TRENCH LIMIT		
EF	EACH FACE	NTS	NOT TO SCALE	TOB	TOP OF BERM		
EG	EXISTING GRADE	OC	ON CENTER	TOE	TOE OF BERM		
EJ	EXPANSION JOINT	OCEW	ON CENTER EACH WAY	TOF	TOP OF FENCE		
EL	ELEVATION	OD	OUTSIDE DIAMETER	TOFG	TOP OF FOOTING		
ENGR	ENGINEER	OPP	OPPOSITE	TOP	TOP OF POST		
EP	EDGE OF PAVEMENT	PA	PLANTING AREA	TS	TOP OF STEP		
EQ	EQUAL	PD	PLANTING DRAIN				

## TREE PROTECTION AND REMOVAL LEGEND

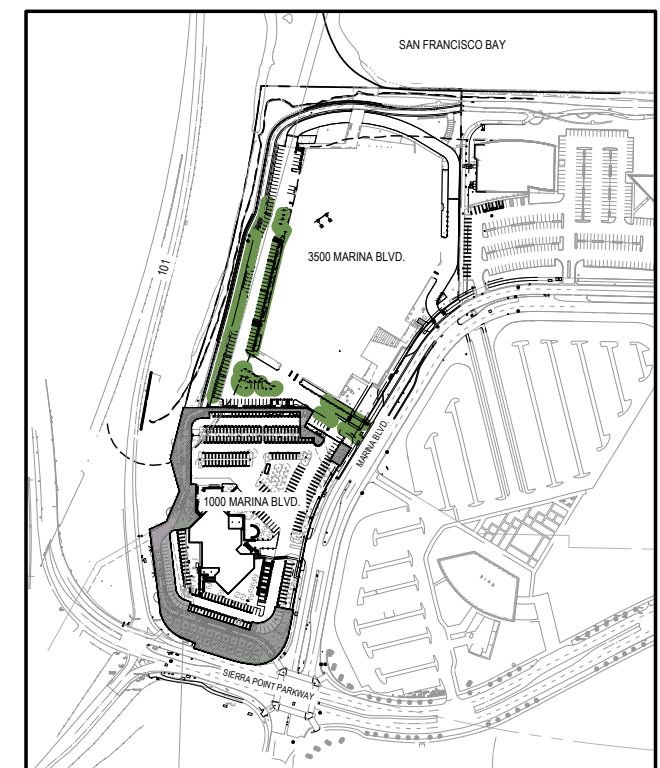


## SOILS LEGEND



NOTE:  
Install 4 cu.yd organic compost per 1,000 sq.ft. of permeable planting area and incorporate to minimum 6 inch - 12 inch depth, unless otherwise indicated, to create a homogenous mix.

## CONTEXT



## PLANTING LEGEND

REFER SHEET L1.6.00

CIVIL ENGINEER:

Bkf100

255 Shoreline Drive, Suite 200

Redwood City, CA 94065

LANDSCAPE ARCHITECT:

TLS

1015 Camella St. Berkeley,

CA 94710

STRUCTURAL ENGINEER:

Date	Scale	NTS	Design	Drawn	Approved	Job No.	20170365-11	1	PLAN CHECK RESPONSE	3



CIVIL ENGINEER:  
**Bkf100**  
 255 Shoreline Drive, Suite 200  
 Redwood City, CA 94065

LANDSCAPE ARCHITECT:  
**TLS**  
 1015 Camella St. Berkeley,  
 CA 94710

STRUCTURAL ENGINEER:



1000 MARINA BOULEVARD  
 LANDSCAPE ILLUSTRATIVE PLAN  
 CITY OF BRISBANE SAN MATEO COUNTY CALIFORNIA

Date	No.	Revisions
10/26/2022	1	100% CONSTRUCTION DRAWINGS
10/26/2022	2	PLAN CHECK RESPONSE
01/04/2023	3	PLAN CHECK RESPONSE 3
01/17/2023	4	PLAN CHECK RESPONSE 4

Drawing Number:  
**L0.10**

△ PLANTING AREA AS PERCENT OF SITE TOTAL

SITE - PRE-PROJECT DEVELOPMENT PLANTING 70,772 SF	36.8%
SITE - PROPOSED DEVELOPMENT (PLANTING AREA ONLY) PLANTING 58,624 SF	30.5%
PLANTING EXISTING OUTSIDE LOW	34,344 SF
PLANTING WITHIN LOW	22,460 SF
MULCH AREA WITHIN LOW	1,820 SF
SITE - PROPOSED DEVELOPMENT (PLANTING & BAY TRAIL AREA) PLANTING AREA + BAY TRAIL AREA 73,084 SF	38.0%
PLANTING EXISTING OUTSIDE LOW	34,344 SF
PLANTING WITHIN LOW	22,460 SF
MULCH WITHIN LOW	1,820 SF
BAY TRAIL (ASPHALT/DG)	14,460 SF







CALIFORNIA

1000 MARINA BOULEVARD

SHEET KEY PLAN

SAN MATEO COUNTY

CITY OF BRISBANE

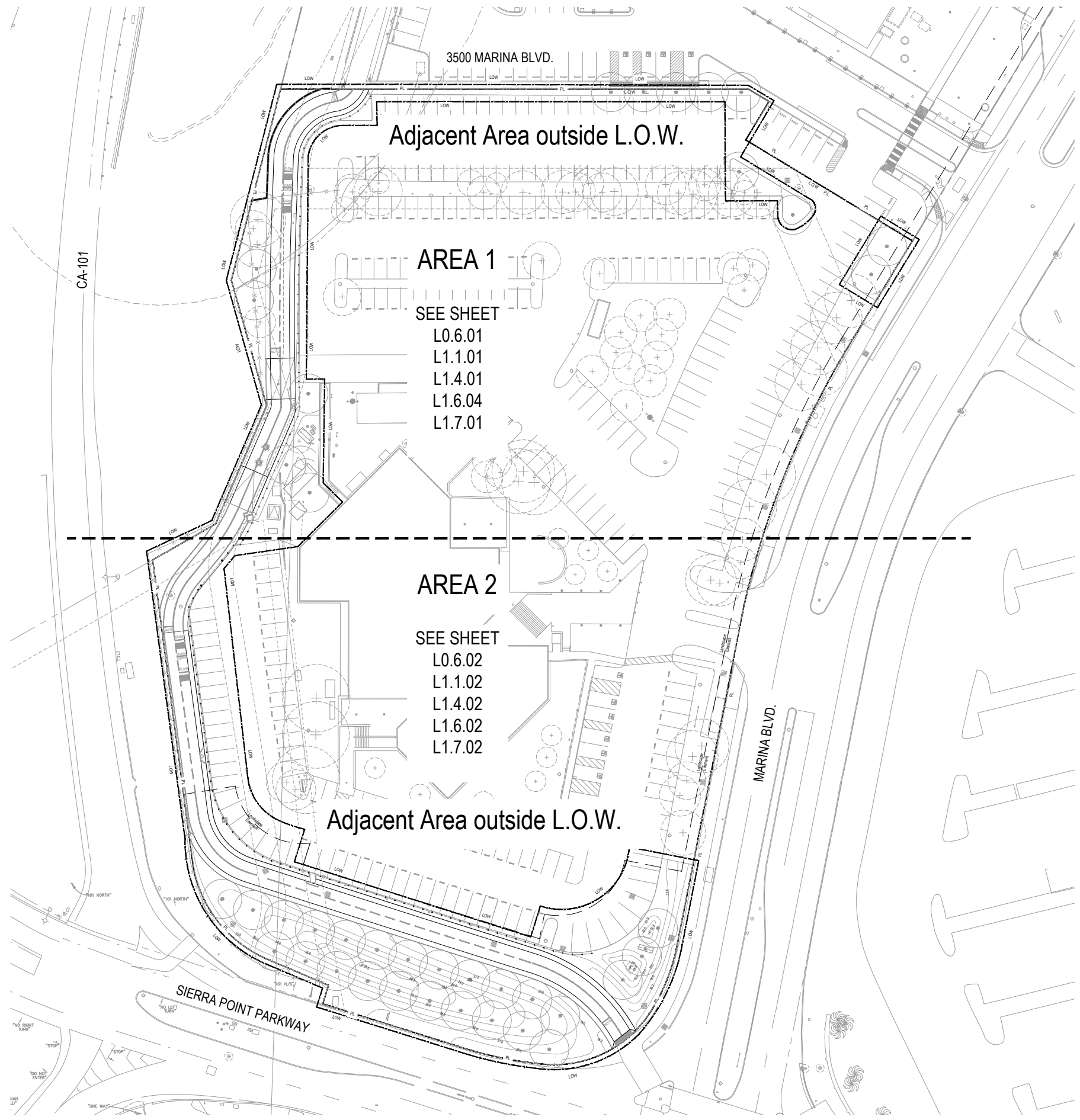
Date	No.	Revisions
01/27/2021		100% DESIGN DEVELOPMENT
05/27/2022		50% CONSTRUCTION DRAWINGS
06/28/2022		90% CONSTRUCTION DRAWINGS
10/26/2022		100% CONSTRUCTION DRAWINGS
10/26/2022		PLAN CHECK RESPONSE

Drawing Number:  
**L0.20**

PLAN CHECK RESPONSE 3

01/04/2023

DRAWING NAME: Y:\PHA\_002 Marina-Boy Trail Extension\3.0 Dwgs\3.05 Sheet Sets\L0.02\_Sheet Key Plan.dwg  
 PLOT DATE: 01-05-23 PLOTTED BY: amberk



## Tree Inventory Report

1000 Marina Boulevard  
Brisbane, CA

Prepared for:  
P3RE  
P.O. Box 927729  
San Diego, CA 92192

Prepared by:  
HortScience | Bartlett Consulting  
325 Ray Street  
Pleasanton, CA 94566

January 11, 2021  
Rev. June 13, 2022



## Tree Inventory Report

1000 Marina Blvd.  
Brisbane, CA

### Table of Contents

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Description of Trees	2
City of Brisbane Tree Regulations	5
Suitability for Preservation	5
Preliminary Tree Preservation Guidelines	7

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### Exhibits

### Tree Assessment Plan

### Tree Assessment

HortScience | Bartlett Consulting • Divisions of The F.A. Bartlett Tree Expert Company

## Tree Inventory Report

1000 Marina Blvd.  
Brisbane, CA

### Introduction and Overview

P3RE is planning landscape improvements at 1000 Marina Boulevard in Brisbane, CA. The site consists of a commercial office building with associated parking lot and landscaping. HortScience | Bartlett Consulting, Divisions of The F.A. Bartlett Tree Expert Company, was asked to prepare a **Tree Inventory Report** for the trees within the project area as part of the application to the City of Brisbane.

This report provides the following information:

1. Assessment of the health and structural condition of the trees within the proposed project area based on a visual inspection from the ground.
2. Preliminary guidelines for tree preservation during the design, construction and maintenance phases of development.

### Tree Assessment Methods

Trees were assessed on December 8, 2020 and June 6, 2022. Trees 1 inch and larger in diameter were included in the assessment. Tree tag numbers are #101 – 284; tag numbers are discontinuous. The assessment procedure consisted of the following steps:

1. Identifying the tree species;
2. Tagging each tree with a numerically coded metal tag and recording its location on a map; off-site trees were not tagged;
3. Measuring the trunk diameter at a point 54 inches above grade.
4. Evaluating the health and structural condition using a scale of 1 – 5 based on a visual inspection from the ground.
  - 5 - A healthy, vigorous tree, reasonably free of signs and symptoms of disease, with good structure and form typical of the species.
  - 4 - Tree with slight decline in vigor, small amount of twig dieback, minor structural defects that could be corrected.
  - 3 - Tree with moderate vigor, moderate twig and small branch dieback, thinning of crown, poor leaf color, moderate structural defects that might be mitigated with regular
  - 2 - Tree in decline, epicormic growth, extensive dieback of medium to large branches, significant structural defects that cannot be abated.
  - 1 - Tree in severe decline, dieback of scaffold branches and/or trunk; most of foliage from epicormics; extensive structural defects that cannot be abated.
  - 0 - Tree is dead.
5. Rating the suitability for preservation as 'high', 'moderate' or 'low'. Suitability for preservation considers the health, age and structural condition of the tree species, and its potential to remain an asset to the site.

**High:** Trees with good health and structural stability that have the potential for longevity at the site.

HortScience | Bartlett Consulting • 325 Ray St. Pleasanton, CA • 925.484.0211 • www.hortscience.com



No.	Date	Description
1	01/27/2021	100% DESIGN DEVELOPMENT
2	05/27/2022	50% CONSTRUCTION DRAWINGS
3	06/28/2022	90% CONSTRUCTION DRAWINGS
4	10/26/2022	100% CONSTRUCTION DRAWINGS
5	10/26/2022	PLAN CHECK RESPONSE

DRAWING NAME: Y:\PHA\_002 Marina-Boy Trill Extension\3.0 Dwg\3.05 Sheet Sets\0.5.00\_Arborist Assessment Report.dwg  
PLOT DATE: 02-15-23  
PLOTTER: kushal

Revised Tree Inventory Report – 1000 Marina Blvd.  
Brisbane, CA  
June 13, 2022  
Page 2

**Moderate:** Trees with somewhat declining health and/or structural defects that can be abated with treatment. The tree will require more intense management and monitoring, and may have shorter life span than those in 'good' category.

**Low:** Trees in poor health or with significant structural defects that cannot be mitigated. Tree is expected to continue to decline, regardless of treatment. The species or individual tree may have characteristics that are undesirable for landscapes, and generally are unsuited for use areas.

### Description of Trees

One hundred and twenty-four (124) trees representing eleven species were evaluated (Table 1). Overall, 26 (21%) trees were in good condition, 41 (33%) were fair, 51 (41%) were poor, and six (5%) were dead. Descriptions of each tree are provided in the Tree Assessment; locations are noted by tree tag number in the Tree Assessment Plan (see Exhibits).

Table 1. Tree condition and frequency of occurrence.  
1000 Marina Blvd – Brisbane, CA

Common Name	Scientific Name	Condition				Total
		Dead (0)	Poor (1-2)	Fair (3)	Good (4-5)	
Blackwood acacia	<i>Acacia melanoxylon</i>	-	1	-	-	1
Japanese maple	<i>Acer palmatum</i>	-	-	-	1	1
Strawberry tree	<i>Arbutus unedo</i>	-	-	2	2	4
Nichol's willowleafed peppermint	<i>Eucalyptus nicholii</i>	-	24	26	-	50
Crape myrtle	<i>Lagerstroemia indica</i>	-	-	3	2	5
Pink melaleuca	<i>Melaleuca nesophylla</i>	-	1	1	-	2
Cajeput paperbark tree	<i>Melaleuca quinquenervia</i>	-	2	2	-	4
New Zealand Christmas tree	<i>Metrosideros excelsa</i>	-	-	-	20	20
Monterey pine	<i>Pinus radiata</i>	5	3	6	1	15
Lombardy poplar	<i>Populus nigra 'Italica'</i>	1	16	1	-	18
Purpleleaf plum	<i>Prunus cerasifera</i>	-	4	-	-	4
<b>Total</b>		<b>6</b>	<b>51</b>	<b>41</b>	<b>26</b>	<b>124</b>

The property was bordered on the south and west sides by Sierra Point Parkway and Highway 101, and on the east side by Marina Boulevard. A commercial lot was under construction to the north, and other large commercial properties dominated the area. The site was relatively flat, with trees around and within the parking lot that surrounded the building.

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Revised Tree Inventory Report – 1000 Marina Blvd.  
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The most prevalent species assessed was Nichol's willowleafed peppermint, with 50 trees (about 40% of the population, Photo 1). The peppermints were growing in rows at the north end of the parking lot, and in various areas near the building. The trees ranged in maturity from very young to over-mature, with diameters from 6 inches to 33 inches. Just over half (26 trees) were in fair condition, and the rest (24 trees) were poor. None of the peppermints were in good condition. Many of the mature trees had high crowns and poor structure, particularly trees at the north end of the site.

Twenty (20) New Zealand Christmas trees were present. All were newly planted young trees in good and very good condition (Photos 1 and 2). Diameters ranged from 1 to 2 inches. Trees were staked in lawn and mulched planting beds. Most trees had vigorous crowns.

Eighteen (18) Lombardy poplars were growing in groups of two or three on the southern part of the site in a lawn area, as well as along a fence on the western edge of the property (Photo 2). The poplars ranged in size from 9 to 31 inches in diameter. Trees had codominant or multiple branch attachments and upright form typical of the species. Many had scarred surface rooting and suckers at the base. Most poplars were in poor condition (16 trees) with significant dieback and stem decay. Poplar #130 was in fair condition, #136 was dead. None of the poplars were in good condition.

Fifteen Monterey pines were assessed. The pines were almost all mature trees, averaging about 20 inches in diameter. The largest tree was 32 inches and the smallest was 9 inches. The pines ranged from fair condition (6 trees) to poor (3 trees). Five of 15 trees were dead. The only pine in good condition was #189 in the north parking lot.



**Photo 1.** Mature peppermint trees #208 - 210 were growing on the north side of the building (red arrows). Young New Zealand Christmas trees #269 and 268 (L to R, yellow arrows) are visible in the foreground.

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**Photo 2**  
Japanese maple #276 is at right. Lombardy poplar #123 is visible at far left (red arrow). New Zealand Christmas trees #277 - 282 (red ovals) are growing in the lawn area in center.



No other species were represented by more than five trees; two species were represented by a single tree. Included in this group were:

- Five crape myrtles were planted in a row on the east side of the building. Young trees #271 - 275 had diameters from 1 to 3 inches. Trees #271, 272 and 273 were in fair condition and #274 and 275 were good with more vigorous crowns.
- Strawberry trees #263 - 266 were young trees with 2 - 3 inch diameter trunks. Trees #263 and 266 were in good condition with vigorous foliage; #264 and 265 were fair.
- Four purpleleaf plums were in poor condition and growing in planting areas near the building. Plums #148 and 205 - 207 had multiple attachments at around 3 feet and poor form, most were leaning and showed signs of twig dieback.
- Cajeput paperbark trees #177 and #190 - 192 were growing in the north parking lot. Three trees were codominant at the base with stems ranging from 7 to 26 inches in diameter. Tree #192 was single stemmed. Cajeputs #177 and 190 were in fair condition, while #191 and 192 were poor, with twig dieback and low vigor.
- Pink melaleucas #150 (in fair condition) and #153 (poor); both had shrub form with multiple attachments, growing in crowded beds along the northwest edge of the parking lot.
- Japanese maple #276 was growing at the southeast corner of the building (Photo 2). It had multiple stems arising from the base and was vigorous, in good condition.
- Blackwood acacia #145 had a 24-inch diameter and was growing near the western property line fence. The acacia was in poor condition and leaned west. It had a history of previous branch failure.

### NOTES:

1. ARBORIST ASSESSMENT REPORT INCLUDES TREES WITHIN PROJECT LIMIT OF WORK AND TREES OUTSIDE LIMIT OF WORK ON ADJACENT 1000 MARINA AREA PROPERTY.

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DRAWING NAME: Y:\PHA\_002 Marina-Boy Trill Extension\3.0 Dwgs\3.05 Sheet Sets\U.O.5.00\_Arborist Assessment Report.dwg  
PLOT DATE: 10-24-22  
PLOTTED BY: amberk

**City of Brisbane Tree Regulations**

- The City of Brisbane defines a *Protected Tree* by any of the following (8) categories:
- California bay, coast live oak or California buckeye. These are the primary native tree species on San Bruno Mountain.
  - Any additional species of tree other than the three above that is determined by the City Council to uniquely contribute to the scenic beauty of the City or provide special benefits to the natural environment or wildlife.
  - Any tree designated as a protected tree by the City Council.
  - Any tree, regardless of size, originally required by the City to be planted or preserved as part of a development or other permit approval. This would include tree removal permits as well as landscape plans approved as part of site plan, design review or other development approval.
  - Any tree, regardless of size, required by the City to be planted as a replacement for an unlawfully removed tree.
  - Any tree, regardless of size, planted or maintained by the City.
  - Any tree growing in the street right of way that is greater than 30' in circumference (9.5' in diameter) at 24' above grade level. These are considered Street Trees whether or not they were planted by the City.
  - Three or more trees of any species that are greater than 30" in circumference (9.5' in diameter) at 24' above grade that are proposed for removal from the same property are considered collectively to be a Protected Tree.

Based on #4 and 8 above, 113 of the 124 trees assessed are *Protected*. *Protected* trees cannot be removed or have construction planned within the dipline without a permit. Protected status of individual trees is identified in the **Tree Assessment** (see Exhibits).

**Suitability for Preservation**

Trees that are preserved on development sites must be carefully selected to make sure that they may survive development impacts, adapt to a new environment and perform well in the landscape. Our goal is to identify trees that have the potential for long-term health, structural stability and longevity. Evaluation of suitability for preservation considers several factors:

- Tree health**  
Healthy, vigorous trees are better able to tolerate impacts such as root injury, demolition of existing structures, changes in soil grade and moisture, and soil compaction than are non-vigorous trees. For example, Monterey pines #102 and 105 are crowded by other trees and showing signs of pine pitch canker; both trees should be considered for removal.
- Structural integrity**  
Trees with significant amounts of wood decay and other structural defects that cannot be corrected are likely to fail. Such trees should not be preserved in areas where damage to people or property is likely. Lombardy poplars #123, 125, 128 and 129 were in poor condition with decayed, scarred surface roots and branch dieback. These trees are not recommended for preservation.
- Species response**  
There is a wide variation in the response of individual species to construction impacts and changes in the environment. New Zealand Christmas trees are relatively tolerant of construction impacts. Lombardy poplar is only moderately tolerant of impacts, and needs irrigation post-construction. Monterey pine is intolerant of impacts.

- Tree age and longevity**  
Old trees, while having significant emotional and aesthetic appeal, have limited physiological capacity to adjust to an altered environment. Young trees are better able to generate new tissue and respond to change.
- Species invasiveness**  
Species that spread across a site and displace desired vegetation are not always appropriate for retention. This is particularly true when indigenous species are displaced. The California Invasive Plant Inventory Database (<http://www.cal-ipc.org/>) maintains a list and invasive ratings of plant species in California. Brisbane is part of the Central West Floristic Province. Of the species at the site, blackwood acacia and purpleleaf plum have been rated as invasive on a limited basis.

Each tree was rated for suitability for preservation based upon its age, health, structural condition and ability to safely coexist within a development environment (See **Table 2** and **Tree Assessment** in Exhibits).

**Table 2. Suitability for preservation for on-site trees.  
1000 Marina Blvd – Brisbane, CA**

Suitability	Description
<b>High</b>	Trees with good health and structural stability that have the potential for longevity at the site. Twenty-five (25) trees on the property had high suitability for preservation, including all 20 New Zealand Christmas trees, crape myrtles #274 and 275, strawberry trees #263 and 266, and Japanese maple #276.
<b>Moderate</b>	Trees in fair health and/or possessing structural defects that may be abated with treatment. Trees in this category require more intense management and monitoring, and may have shorter life-spans than those in the "good" category. Thirty-eight (38) trees had moderate suitability for preservation, including 24 Nichol's willowleafed peppermints.
<b>Low</b>	Trees in poor health or possessing significant defects in structure that cannot be abated with treatment. These trees can be expected to decline regardless of management. The species or individual tree may possess either characteristics that are undesirable in landscape settings or be unsuited for use areas. Fifty-five (55) trees had low suitability for preservation, including 26 Nichol's willowleafed peppermints and 16 Lombardy poplars.

**Note:** Table does not include Lombardy poplar #136 and Monterey pines #103, 107, 138, 139 and 158. These trees were dead.

We consider trees with high suitability for preservation to be the best candidates for preservation. We do not recommend retention of trees with low suitability for preservation in areas where people or property will be present. Retention of trees with moderate suitability for preservation depends upon the intensity of proposed site changes.

**Preliminary Tree Preservation Guidelines**

The goal of tree preservation is not merely tree survival during development but maintenance of tree health and beauty for many years. Trees retained on sites that are either subject to extensive injury during construction or are inadequately maintained become a liability rather than an asset. The response of individual trees will depend on the amount of excavation and grading, the care with which demolition is undertaken, and the construction methods. Coordinating any construction activity inside the **TREE PROTECTION ZONE** can minimize these impacts.

Focus tree preservation on trees with high and moderate suitability for preservation. Trees with low suitability will never become assets to the new project. Dead trees should be removed.

The following recommendations will help reduce impacts to trees from development as well as maintain and improve their health and vitality through the clearing, grading and construction phases. The key elements of a tree preservation plan for the 1000 Marina Boulevard property would include:

- Establishing **TREE PROTECTION ZONES** for each tree to be preserved. **TREE PROTECTION ZONES** are identified by the Consulting Arborist based on species tolerances, tree condition, trunk diameters and the nature and proximity of the proposed disturbance.
- Providing supplemental irrigation prior to and during the demolition and construction phases of any planned construction.

Survival of the trees to be preserved or potentially preserved will depend on the care with which construction is performed around the trees and the nature of the impacts near these trees. Trees should be preserved in groups with minimal grading within the critical root zone, where possible. The following are recommendations for design and construction phases that will assist in successful tree preservation.

**Design recommendations**

- Any changes to the plans affecting the trees should be reviewed by the Project Arborist with regard to tree impacts. These include, but are not limited to, site plans, improvement plans, utility and drainage plans, grading plans, landscape and irrigation plans, and demolition plans.
- Plan for tree preservation by designing adequate space around trees to be preserved. This area is called the **TREE PROTECTION ZONE**: No grading, excavation, construction or storage of materials should occur within that zone. Route underground services including utilities, sub-drains, water or sewer around the **TREE PROTECTION ZONE**. The tree protection zone is ten times the diameter or the entire dipline whichever is larger. Areas of the **TREE PROTECTION ZONE** should be fenced to minimize impacts and staging in the **TREE PROTECTION ZONE**.
- Irrigation systems must be designed so that no trenching severs roots larger than 1 inch in diameter within the **TREE PROTECTION ZONE**.
- Tree Preservation Guidelines prepared by the Project Arborist, which include specifications for tree protection during demolition and construction, should be included on all plans.

- Any herbicides placed under paving materials must be safe for use around trees and labeled for that use.
- Do not lime the subsoil within 50 feet of any tree. Lime is toxic to tree roots.
- Ensure adequate but not excessive water is supplied to trees; in most cases, occasional irrigation will be required. Avoid directing runoff toward trees.

**Pre-demolition and pre-construction treatments and recommendations**

- The demolition and construction superintendents shall meet with the Project Arborist before beginning work to review all work procedures, access routes, storage areas, and tree protection measures.
- Portions of the **TREE PROTECTION ZONE** should be fenced. Trees adjacent to demolition may require limb and trunk protections. This may be accomplished using foam wrapped with wattle and orange snow fencing to protect the areas where the limb (or trunk) is exposed to incidental contact.
- Prune trees to be preserved to clean the crown of dead branches 1 inch and larger in diameter, raise canopies as needed for construction activities. All pruning shall be done by a State of California Licensed Tree Contractor (C61/D49). All pruning shall be done by Certified Arborist or Certified Tree Worker in accordance with the Best Management Practices for Pruning (International Society of Arboriculture, 2002) and adhere to the most recent editions of the American National Standard for Tree Care Operations (Z133.1) and Pruning (A300). The Project Arborist will provide pruning specifications prior to site demolition.
- Structures and underground features to be removed within the **TREE PROTECTION ZONE** shall use equipment that will minimize damage to trees above and below ground, and operate from outside the **TREE PROTECTION ZONE**. The Project Arborist shall be on site during all operations within the **TREE PROTECTION ZONE** to monitor demolition activity.
- All tree work shall comply with the Migratory Bird Treaty Act as well as California Fish and Wildlife code 3503-3513 to not disturb nesting birds. To the extent feasible, tree pruning and removal should be scheduled outside of the breeding season. Breeding bird surveys should be conducted prior to tree work. Qualified biologists should be involved in establishing work buffers for active nests.
- Apply and maintain 4 – 6 inches of wood chip mulch within the **TREE PROTECTION ZONE**.

**Recommendations for tree protection during construction**

- Any approved grading, construction, demolition or other work within the **TREE PROTECTION ZONE** should be monitored by the Project Arborist.
- All contractors shall conduct operations in a manner that will prevent damage to trees to be preserved.
- Tree protection devices are to remain until all site work has been completed within the work area. Fences or other protection devices may not be relocated or removed without permission of the Project Arborist.
- Construction trailers, traffic and storage areas must remain outside **TREE PROTECTION ZONE** at all times.
- Any root pruning required for construction purposes shall receive the prior approval of and be supervised by the Project Arborist. Roots should be cut with a saw to provide a flat and smooth cut. Removal of roots larger than 2 inches in diameter should be avoided.

- If roots 1 inches and greater in diameter are encountered during site work and must be cut to complete the construction, the Project Arborist must be consulted to evaluate effects on the health and stability of the tree and recommend treatment.
- Spoils from trench, footing, utility or other excavation shall not be placed within the **TREE PROTECTION ZONE**, neither temporarily nor permanently.
- All grading within the dipline of trees shall be done using the smallest equipment possible. The equipment shall operate perpendicular to the tree and operate from outside the **TREE PROTECTION ZONE**. Any modifications must be approved and monitored by the Project Arborist.
- All trees shall be irrigated on a schedule to be determined by the Project Arborist (every 3 to 6 weeks is typical). Each irrigation shall wet the soil within the **TREE PROTECTION ZONE** to a depth of 18 - 24 inches.
- If injury should occur to any tree during construction, it should be evaluated as soon as possible by the Project Arborist so that appropriate treatments can be applied.
- No excess soil, chemicals, debris, equipment or other materials shall be dumped or stored within the **TREE PROTECTION ZONE**.
- Any additional tree pruning needed for clearance during construction must be performed by a Certified Arborist and not by construction personnel or certified tree climber.
- Trees that accumulate a sufficient quantity of dust on their leaves, limbs and trunk as judged by the Project Arborist shall be spray-washed at the direction of the Project Arborist.

**Maintenance of impacted trees**

Trees should be monitored and inspected annually and after major storms to identify conditions requiring treatment to manage risk associated with tree failure.

Preserved trees will experience a physical environment different from that pre-development. As a result, tree health and structural stability should be monitored. Occasional pruning, fertilization, mulch, pest management, replanting and irrigation may be required. In addition, provisions for monitoring both tree health and structural stability following construction must be made a priority. Inspect trees annually and following major storms to identify conditions requiring treatment to manage risk associated with tree failure.

Our procedures included assessing trees for observable defects in structure. This is not to say that trees without significant defects will not fail. Failure of apparently defect-free trees does occur, especially during storm events. Wind forces, for example, can exceed the strength of defect-free wood causing branches and trunks to break. Wind forces coupled with rain can saturate soils, reducing their ability to hold roots, and blow over defect-free trees. Although we cannot predict all failures, identifying those trees with observable defects is a critical component of enhancing public safety.

Furthermore, trees change over time. Our inspections represent the condition of the tree at the time of inspection. As trees age, the likelihood of failure of branches or entire trees increases. Annual tree inspections are recommended to identify changes to tree health and structure. In addition, trees should be inspected after storms of unusual severity to evaluate damage and structural changes. Initiating these inspections is the responsibility of the client and/or tree owner.

If you have any questions about my observations or recommendations, please contact me.

**HortScience | Bartlett Consulting**

*Pam Nagle*

Pam Nagle  
Consulting Arborist and Urban Forester  
Certified Arborist #WE-9517A



CIVIL ENGINEER:  
**Bkf100**  
255 Shoreline Drive, Suite 200  
Redwood City, CA 94065

LANDSCAPE ARCHITECT:  
**TLs**  
1015 Camella St. Berkeley,  
CA 94710

STRUCTURAL ENGINEER:



1000 MARINA BOULEVARD  
ARBORIST ASSESSMENT REPORT  
SAN MATEO COUNTY  
CITY OF BRISBANE  
CALIFORNIA

Date	Scale	No.	Revisions
AS SHOWN	100% DESIGN DEVELOPMENT		01/27/2021
Design	50% CONSTRUCTION DRAWINGS		05/27/2022
Drawn	90% CONSTRUCTION DRAWINGS		06/28/2022
Approved	100% CONSTRUCTION DRAWINGS		10/26/2022
Job No.	20170365-11		10/26/2022

Drawing Number:  
**L0.5.01**

NOTES:  
1. ARBORIST ASSESSMENT REPORT INCLUDES TREES WITHIN PROJECT LIMIT OF WORK AND TREES OUTSIDE LIMIT OF WORK ON ADJACENT 1000 MARINA AREA PROPERTY.

Table with 7 columns: Tree No., Species, Trunk Diameter (in.), Protected Tree?, Condition 1-poor 5-excellent, Suitability for Preservation, Comments. Rows 101-175.

Table with 7 columns: Tree No., Species, Trunk Diameter (in.), Protected Tree?, Condition 1-poor 5-excellent, Suitability for Preservation, Comments. Rows 176-284.

NOTES:  
1. ARBORIST ASSESSMENT REPORT INCLUDES TREES WITHIN PROJECT LIMIT OF WORK AND TREES OUTSIDE LIMIT OF WORK ON ADJACENT 1000 MARINA AREA PROPERTY.

PHASE3  
CIVIL ENGINEER:  
Bkf100  
255 Shoreline Drive, Suite 200  
Redwood City, CA 94065  
LANDSCAPE ARCHITECT:  
TLS  
1015 Camella St. Berkeley,  
CA 94710  
STRUCTURAL ENGINEER:



1000 MARINA BOULEVARD  
ARBORIST ASSESSMENT REPORT  
SAN MATEO COUNTY  
CITY OF BRISBANE  
CALIFORNIA

Table with 2 columns: Date, Revisions. Rows for AS SHOWN, Design, Draw, Approved, and Job No. 20170365-11.

TREE ASSESSMENT-ARBORIST REPORT 01  
N.T.S.



DRAWING NAME: Y:\PHA\_002 Marina-Boat Trail Extension\3.0 Dwg\3.05 Sheet Sets\0.6.00\_Tree Protection and Removal Notes.dwg  
PLOT DATE: 02-15-23  
PLOTTER: kushal

**TREE PROTECTION NOTES (ALSO REFER TO SPECIFICATIONS):**

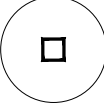

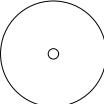
1. THE TREE PROTECTION FENCE ZONE SHALL BE DEFINED AS THE AREA FROM THE TRUNK OUT TO DRIPLINE OR A MINIMUM 15' BEYOND THE TRUNK. A TREE'S CRITICAL ROOT ZONE IS DEFINED AS THE AREA 10' BEYOND THE DRIPLINE. A CERTIFIED ARBORIST SHALL BE PRESENT FOR WORK WITHIN THE CRITICAL ROOT ZONE.
2. A CERTIFIED ARBORIST SHALL BE PRESENT TO EVALUATE ALL WORK PERFORMED WITHIN ANY TREE PROTECTION ZONE.
3. PROTECTIVE FENCING SHALL BE CHAIN LINK ON SECURE FOOTINGS, OR IMBEDDED AS REQUIRED BY CERTIFIED ARBORIST, THAT WILL NOT FALL OVER ONTO TREES.
4. PROTECTIVE FENCING SHALL BE PLACED AT THE OUTER EDGE OF THE TREE PROTECTION ZONE, MINIMUM 15' BEYOND THE TREE TRUNK OR AS SHOWN ON TREE PROTECTION DRAWING, WHICHEVER IS GREATER.
5. PROTECTIVE FENCING: FENCING MATERIAL SHALL ENCIRCLE ANY TREE WHOSE OUTER DRIPLINE IS WITHIN THE PROJECT SITE AND ANY CONSTRUCTION ACTIVITIES. LIMITS OF THE FENCING ON THE PLANS ARE DIAGRAMMATIC, AND THE ACTUAL LIMITS WILL BE DEFINED IN THE FIELD.
6. TREE PROTECTION FENCING MUST BE INSTALLED AND REMAIN IN AN UPRIGHT POSITION THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES AND UNTIL THE FINAL COMPLETION WALK.
7. WHERE WORK FALLS WITHIN TREE PROTECTION ZONES, TREES MUST BE WRAPPED WITH 2"x4"s SET VERTICALLY AROUND THE TRUNK AND ORANGE CONSTRUCTION FENCE FOR THE DURATION OF THE PROJECT. USE THE NUMBER 2"x4"s NECESSARY TO KEEP FENCE OFF BARK OF TREE. THIS TECHNIQUE MUST BE USED WHERE STANDARD TREE PROTECTION MEASURES ARE NOT APPROPRIATE.
8. TURF, LANDSCAPE, AND HARDSCAPE REMOVALS WITHIN TREE PROTECTION FENCE SHALL BE BY HAND.
9. THE OWNER'S REPRESENTATIVE AND PROJECT ARBORIST SHALL BE CONSULTED IF SIGNIFICANT ROOTS GREATER THAN 4" DIAMETER ARE FOUND TO IMPEDE CONSTRUCTION.
10. CARE MUST BE TAKEN TO LIMIT COMPACTION OF SOIL OVER EXISTING TREE ROOTS.
11. LAYDOWN, STAGING AND PARKING AREAS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE AND SHALL BE SHOWN ON THE STAGING PLANS IF WITHIN THE PROJECT LIMIT AREA, OR ON THE CONSTRUCTION LOGISTICS PLAN IF OUTSIDE THE PROJECT LIMIT AREA.
12. CONSTRUCTION MATERIALS/EQUIPMENT/PERSONAL VEHICLES SHALL NOT BE STORED, PARKED OR TEMPORARILY PLACED IN THE TREE PROTECTION ZONE OF ANY TREES. NO MATERIALS SHALL BE STORED OR PLACED TEMPORARILY WITHIN PROTECTIVE FENCING, TO AVOID SOIL COMPACTION AND SOIL CONTAMINATION UNDER TREES. TREE PROTECTION ZONES OF TREES SHALL NOT BE DRIVEN OVER. PROVIDE ALTERNATIVE ROUTES FOR CONSTRUCTION TRAFFIC OF ANY KIND INCLUDING CARS, PEOPLE, TRACTORS, EQUIPMENT, CRANES, OR ANY OTHER TRAFFIC AND ALL STAGING OR STORAGE AREAS.
13. NO RINSING, CLEANING EQUIPMENT OR DUMPING CONSTRUCTION LIQUID MATERIALS SHALL BE ALLOWED IN THE TREE PROTECTION ZONES. CARE SHALL BE TAKEN IN CLEANING UP EQUIPMENT. THERE SHALL BE NO STORAGE OF DUMPSTERS OR ACCUMULATED DEBRIS FROM DEMOLITION ON OR AROUND THE TREE PROTECTION ZONES OF EXISTING TREES AND SHRUBS.

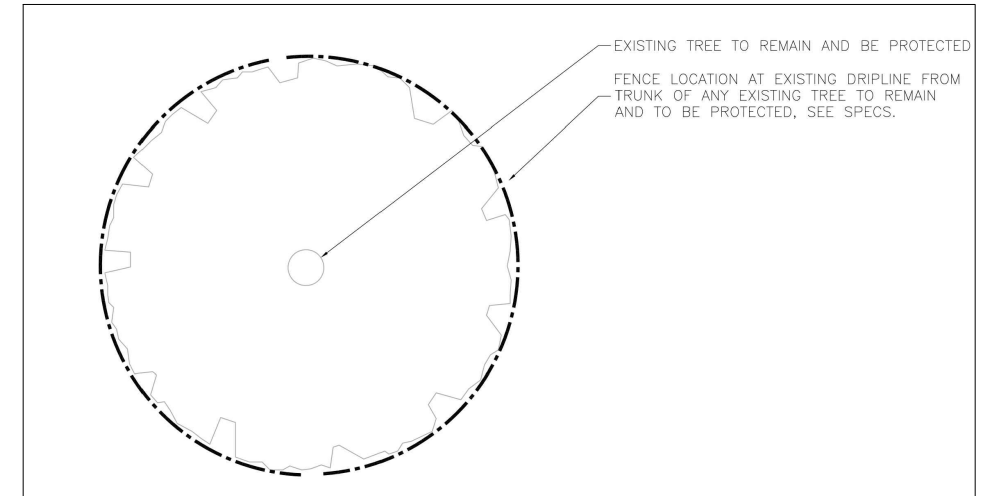
14. PROTECT OVERHANGING TREE CANOPIES FROM CONSTRUCTION DAMAGE. IF DRIVE AISLES ARE ANTICIPATED UNDER LOW CANOPIES CALL FOR AN EVALUATION BY A CERTIFIED ARBORIST TO DETERMINE APPROPRIATE MEASURES. ALL PRUNING SHALL BE DONE BY A CERTIFIED ARBORIST FOLLOWING NATIONAL ARBORIST ASSOCIATION SPECIFICATIONS.
15. THERE SHALL BE NO GRADE CHANGE WITHIN A MINIMUM OF FIFTEEN FEET OF THE TRUNK OF EXISTING TREES TO BE PROTECTED, AND PREFERABLY NONE WITHIN THE ENTIRE TREE PROTECTION ZONE.
16. HEAVY EQUIPMENT WILL NOT BE ALLOWED FOR EXCAVATION WITHIN TREE PROTECTION ZONES.
17. TREES TO BE PROTECTED SHALL BE MONITORED WEEKLY AND IRRIGATED AS NEEDED OR DIRECTED BY ARBORIST DURING THE COURSE OF CONSTRUCTION.
18. NO LIME OR OTHER SOIL TREATMENT SHALL BE APPLIED WITHOUT THE CONSENT OF A CERTIFIED ARBORIST.
19. ALL TRENCHING SHALL CONFORM TO THE FOLLOWING GUIDELINES.
  - A. A CERTIFIED ARBORIST IS REQUIRED TO BE PRESENT TO SUPERVISE ANY TRENCHING, DIGGING OR EXCAVATION OF ANY KIND WITHIN A TREE PROTECTION ZONE.
  - B. ROOTS LARGER THAN 2 INCHES IN DIAMETER SHALL NOT BE SEVERED WITHOUT CALLING THE CERTIFIED ARBORIST FOR CUTTING OR REVIEW.
  - C. TUNNELING OR BORING UNDER ROOTS RATHER THAN PRUNING IS PREFERRED.
  - D. DIGGING WITHIN A TREE PROTECTION ZONE SHALL BE AVOIDED. IF IT IS NECESSARY, HAND DIGGING SHALL BE USED FOR ANY TRENCHING WITHIN THE TREE PROTECTION ZONE UNLESS OTHERWISE APPROVED BY THE ARBORIST.
  - E. ALL ROOTS THAT NEED TO BE CUT SHALL BE PRUNED CLEANLY, NOT TORN.

**TREE REMOVAL NOTES:**

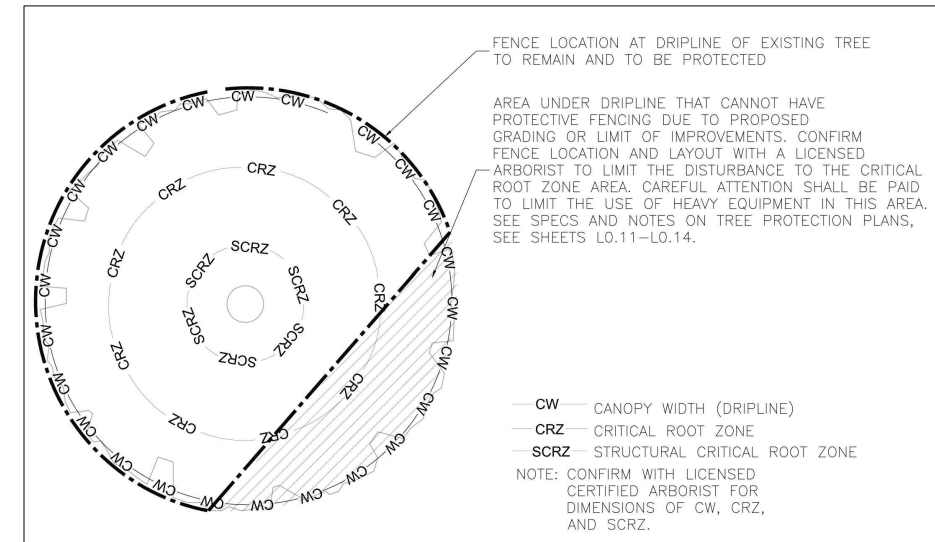
1. PERFORM TREE REMOVAL WORK IN CONFORMANCE WITH APPLICABLE LOCAL CODES AND ORDINANCES.
2. TREE REMOVAL INCLUDES REMOVAL OF THE TREE TRUNK AND BRANCHES ABOVE GRADE, STUMP GRINDING THE REMAINING TRUNK AND REMOVING ROOTS TO A DEPTH OF 12" BELOW GRADE.
3. PROTECT EXISTING TREES TO REMAIN. DO NOT DAMAGE TRUNK, BRANCHES OR ROOTS OF TREES TO BE PROTECTED.
4. PROTECT EXISTING WORK TO REMAIN AND DO NOT CAUSE DAMAGE.
5. GRIND REMOVED TRUNKS, BRANCHES AND LEAF LITTER IN WOODCHIPPER TO CREATE FINE WOOD CHIPS. STORE WOOD CHIPS/ARBOR MULCH IN LOCATION ACCEPTABLE TO OWNER AND MINIMUM 25' FEET AWAY FROM BUILDINGS. WOOD CHIPS/ARBOR MULCH TO BE USED AS MULCH ON PLANTING AREAS AND TO BE STORED FOR INCORPORATION INTO COMPOST PRODUCED ON-SITE. USE CHIPS FOR STABILIZATION OF SOIL DISTURBANCES ASSOCIATED WITH REMOVAL..
6. LEGALLY DISPOSE OF TREE REMOVAL DEBRIS (NOT CHIPPED PER #5 ABOVE) OFF-SITE FOLLOWING CITY OF BRISBANE REQUIREMENTS.

**TREE INVENTORY WITHIN L.O.W. AND ADJACENT AREA OUTSIDE L.O.W.**

	<b>TOTAL TREES EXISTING :</b>	<b>124</b>
	<b>TREES PROTECTED IN PLACE :</b>	<b>93</b>
	<b>TREES TO BE REMOVED :</b>	<del>31</del> <b>32</b>
	<b>NEW TREES :</b>	<b>39</b>



PROTECTIVE FENCING FOR TREE PROTECTION AT DRIPLINE-PLAN



PROTECTIVE FENCING FOR TREE PROTECTION AT PARTIAL DRIPLINE-PLAN

TREE PROTECTION FENCING-SECTION

**TREE PROTECTION DETAIL 01**  
SCALE : NTS

**PHASE3**  
CIVIL ENGINEER:  
**Bkf100**  
255 Shoreline Drive, Suite 200  
Redwood City, CA 94065  
LANDSCAPE ARCHITECT:  
**TL**  
1015 Camelia St. Berkeley,  
CA 94710  
STRUCTURAL ENGINEER:

1000 MARINA BOULEVARD  
TREE PROTECTION / REMOVAL NOTES AND DETAILS  
SAN MATEO COUNTY  
CITY OF BRISBANE  
CALIFORNIA

Date	Scale	NTS	Revisions	No.
			100% DESIGN DEVELOPMENT	01/27/2021
			50% CONSTRUCTION DRAWINGS	05/27/2022
			90% CONSTRUCTION DRAWINGS	06/28/2022
			100% CONSTRUCTION DRAWINGS	10/26/2022
			PLAN CHECK RESPONSE	10/26/2022
				3

Job No. 20170365-11  
Drawing Number: L0.6.00A  
PLAN CHECK RESPONSE 3  
01/04/2023

DRAWING NAME: Y:\PHA\_002 Marine-Boat Trill Extension\3.0 Dwgs\3.05 Sheet Sets\LO.6.00\_Tree Protection and Removal Notes.dwg  
PLOT DATE: 02-15-23  
PLOTTER BY: kushal

Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Status
101	Monterey pine	15	Yes	Remove
102	Monterey pine	9	No	Remove
103	Monterey pine	32	Yes	Protect
104	Monterey pine	28	Yes	Protect
105	Monterey pine	22	Yes	Protect
106	Monterey pine	24	Yes	Protect
107	Monterey pine	25	Yes	Protect
108	Nichol's willowleafed peppermint	25	Yes	Protect
109	Nichol's willowleafed peppermint	31	Yes	Protect
110	Nichol's willowleafed peppermint	21	Yes	Protect
111	Nichol's willowleafed peppermint	12	Yes	Protect
112	Nichol's willowleafed peppermint	20	Yes	Protect
113	Nichol's willowleafed peppermint	24	Yes	Protect
114	Nichol's willowleafed peppermint	23	Yes	Protect
115	Nichol's willowleafed peppermint	27	Yes	Protect
116	Nichol's willowleafed peppermint	23	Yes	Protect
117	Nichol's willowleafed peppermint	25	Yes	Protect
118	Nichol's willowleafed peppermint	33	Yes	Protect
123	Lombardy poplar	28	Yes	Remove
125	Lombardy poplar	31	Yes	Remove
128	Lombardy poplar	25	Yes	Remove
129	Lombardy poplar	27	Yes	Remove
130	Lombardy poplar	12,5,3,2,2,2	Yes	Remove
131	Lombardy poplar	18,16,15	Yes	Remove
132	Lombardy poplar	17,15,12	Yes	Remove
133	Lombardy poplar	26	Yes	Remove
135	Lombardy poplar	24	Yes	Remove
136	Lombardy poplar	9	No	Remove
137	Monterey pine	18	Yes	Remove
138	Monterey pine	17	Yes	Remove
139	Monterey pine	13	Yes	Remove
140	Monterey pine	26	Yes	Remove
141	Monterey pine	28	Yes	Remove
142	Lombardy poplar	17	Yes	Remove
143	Lombardy poplar	24	Yes	Remove
144	Lombardy poplar	21	Yes	Remove
145	Blackwood acacia	24	No	Remove
146	Lombardy poplar	21	Yes	Remove
147	Lombardy poplar	21	Yes	Remove
148	Purpleleaf plum	5,5,3	No	Protect
149	Lombardy poplar	20	Yes	Remove
150	Pink melaleuca	8,8,4,3,3,2,2	No	Remove
151	Lombardy poplar	21	Yes	Remove
152	Lombardy poplar	21	Yes	Remove
153	Pink melaleuca	9,5,4,3	No	Protect
154	Nichol's willowleafed peppermint	26	Yes	Protect
155	Nichol's willowleafed peppermint	17	Yes	Protect

Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Status
155	Nichol's willowleafed peppermint	17	Yes	Protect
156	Nichol's willowleafed peppermint	22	Yes	Remove
157	Nichol's willowleafed peppermint	24	Yes	Remove
158	Monterey pine	12	Yes	Protect
159	Nichol's willowleafed peppermint	18	Yes	Protect
160	Nichol's willowleafed peppermint	6	No	Protect
161	Nichol's willowleafed peppermint	17	Yes	Protect
162	Nichol's willowleafed peppermint	10	Yes	Protect
163	Nichol's willowleafed peppermint	18	Yes	Protect
164	Nichol's willowleafed peppermint	14	Yes	Protect
165	Nichol's willowleafed peppermint	18	Yes	Protect
166	Nichol's willowleafed peppermint	12	Yes	Protect
167	Nichol's willowleafed peppermint	18	Yes	Protect
168	Nichol's willowleafed peppermint	14	Yes	Protect
172	Nichol's willowleafed peppermint	16	Yes	Protect
173	Nichol's willowleafed peppermint	16	Yes	Protect
174	Nichol's willowleafed peppermint	14	Yes	Protect
175	Nichol's willowleafed peppermint	16	Yes	Protect
176	Nichol's willowleafed peppermint	17	Yes	Protect
177	Cajeput paperbark tree	26,12	Yes	Protect
178	Nichol's willowleafed peppermint	18	Yes	Protect
179	Nichol's willowleafed peppermint	17	Yes	Protect
180	Nichol's willowleafed peppermint	20	Yes	Protect
181	Nichol's willowleafed peppermint	12	Yes	Protect
182	Nichol's willowleafed peppermint	16	Yes	Protect
183	Nichol's willowleafed peppermint	17	Yes	Protect
184	Nichol's willowleafed peppermint	15	Yes	Protect
185	Nichol's willowleafed peppermint	20	Yes	Protect
186	Nichol's willowleafed peppermint	14	Yes	Protect
187	Nichol's willowleafed peppermint	23	Yes	Remove
188	Monterey pine	20	Yes	Remove
189	Monterey pine	13	Yes	Protect
190	Cajeput paperbark tree	20,15	Yes	Protect
191	Cajeput paperbark tree	13,10,7	Yes	Protect
192	Cajeput paperbark tree	16	Yes	Protect
198	Nichol's willowleafed peppermint	16	Yes	Protect

Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Status
199	Nichol's willowleafed peppermint	22	Yes	Protect
200	Nichol's willowleafed peppermint	16	Yes	Protect
201	Nichol's willowleafed peppermint	14	Yes	Protect
202	Nichol's willowleafed peppermint	28	Yes	Protect
203	Nichol's willowleafed peppermint	25	Yes	Protect
204	Nichol's willowleafed peppermint	30	Yes	Protect
205	Purpleleaf plum	7,6	No	Protect
206	Purpleleaf plum	6,5,4	No	Protect
207	Purpleleaf plum	5,5,4,3	No	Protect
208	Nichol's willowleafed peppermint	26	Yes	Protect
209	Nichol's willowleafed peppermint	21	Yes	Protect
210	Nichol's willowleafed peppermint	29	Yes	Protect
255	New Zealand Christmas tree	1	Yes	Protect
256	New Zealand Christmas tree	1	Yes	Protect
257	New Zealand Christmas tree	1	Yes	Protect
258	New Zealand Christmas tree	1	Yes	Protect
259	New Zealand Christmas tree	1	Yes	Protect
260	New Zealand Christmas tree	1	Yes	Protect
261	New Zealand Christmas tree	1	Yes	Protect
262	New Zealand Christmas tree	1	Yes	Protect
263	Strawberry tree	2	Yes	Protect
264	Strawberry tree	2	Yes	Protect
265	Strawberry tree	2	Yes	Protect
266	Strawberry tree	3	Yes	Protect
267	New Zealand Christmas tree	1	Yes	Protect
268	New Zealand Christmas tree	2	Yes	Protect
269	New Zealand Christmas tree	1	Yes	Protect
270	New Zealand Christmas tree	1	Yes	Protect
271	Crape myrtle	1	Yes	Protect
272	Crape myrtle	1	Yes	Protect
273	Crape myrtle	2	Yes	Protect
274	Crape myrtle	2	Yes	Protect
275	Crape myrtle	3	Yes	Protect
276	Japanese maple	3,3,2,2,2,2,2,2,1	No	Protect
277	New Zealand Christmas tree	1	Yes	Protect
278	New Zealand Christmas tree	1	Yes	Protect
279	New Zealand Christmas tree	1	Yes	Protect
280	New Zealand Christmas tree	1	Yes	Protect
281	New Zealand Christmas tree	1	Yes	Protect
282	New Zealand Christmas tree	1	Yes	Protect
283	New Zealand Christmas tree	2	Yes	Protect
284	New Zealand Christmas tree	1	Yes	Protect

NOTES:

- ARBORIST TREE ASSESSMENT REPORT INCLUDES TREES WITHIN PROJECT LIMIT OF WORK AND TREES OUTSIDE LIMIT OF WORK ON ADJACENT 1000 MARINA AREA PROPERTY.



1000 MARINA BOULEVARD  
TREE PROTECTION AND REMOVAL STATUS

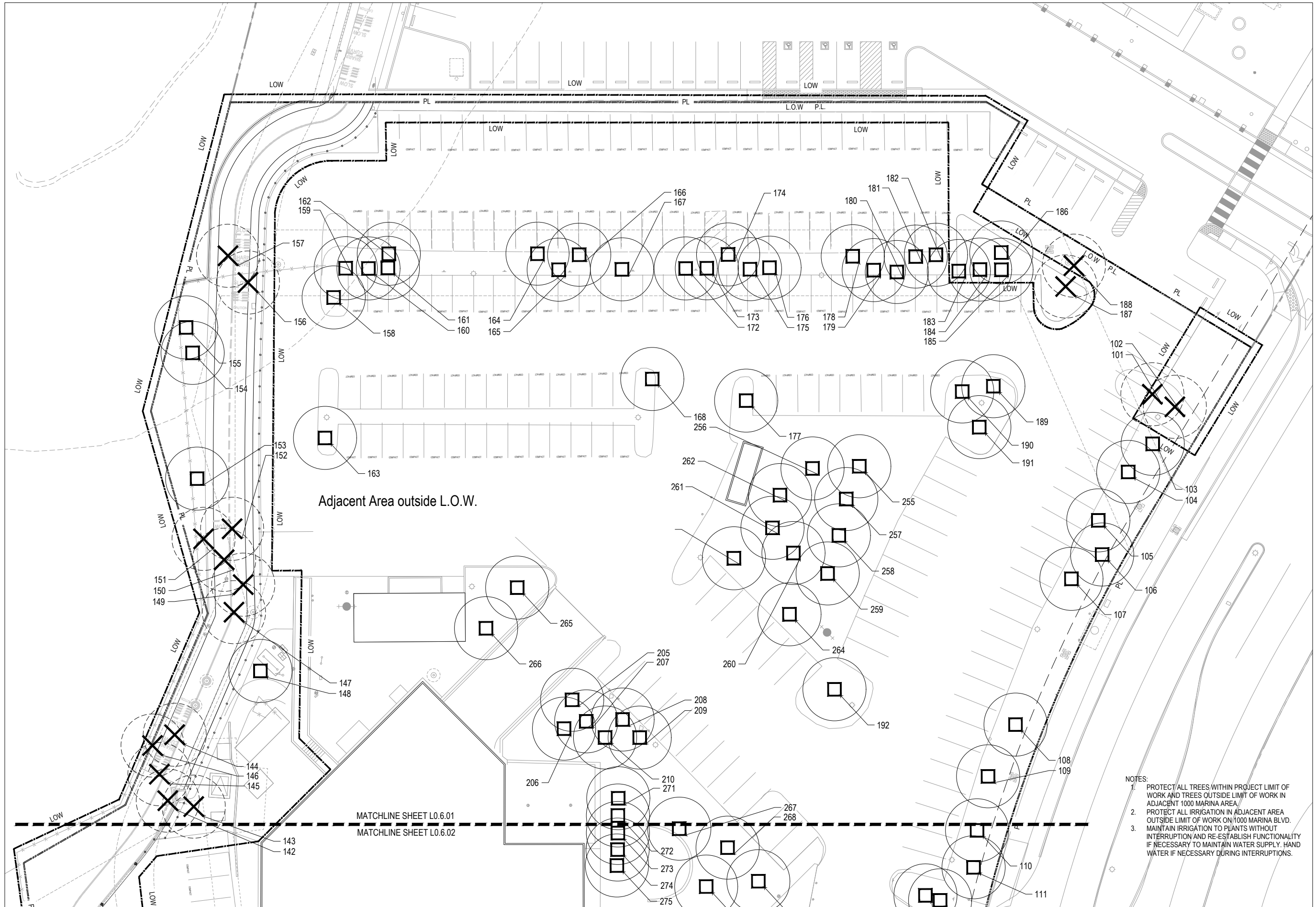
No.	Date	Scale	NTS	Revisions
				100% DESIGN DEVELOPMENT 01/27/2021
				50% CONSTRUCTION DRAWINGS 05/27/2022
				90% CONSTRUCTION DRAWINGS 06/28/2022
				100% CONSTRUCTION DRAWINGS 10/26/2022
				PLAN CHECK RESPONSE 10/26/2022
				Job No. 20170365-11

Drawing Number:

**L0.6.00B**



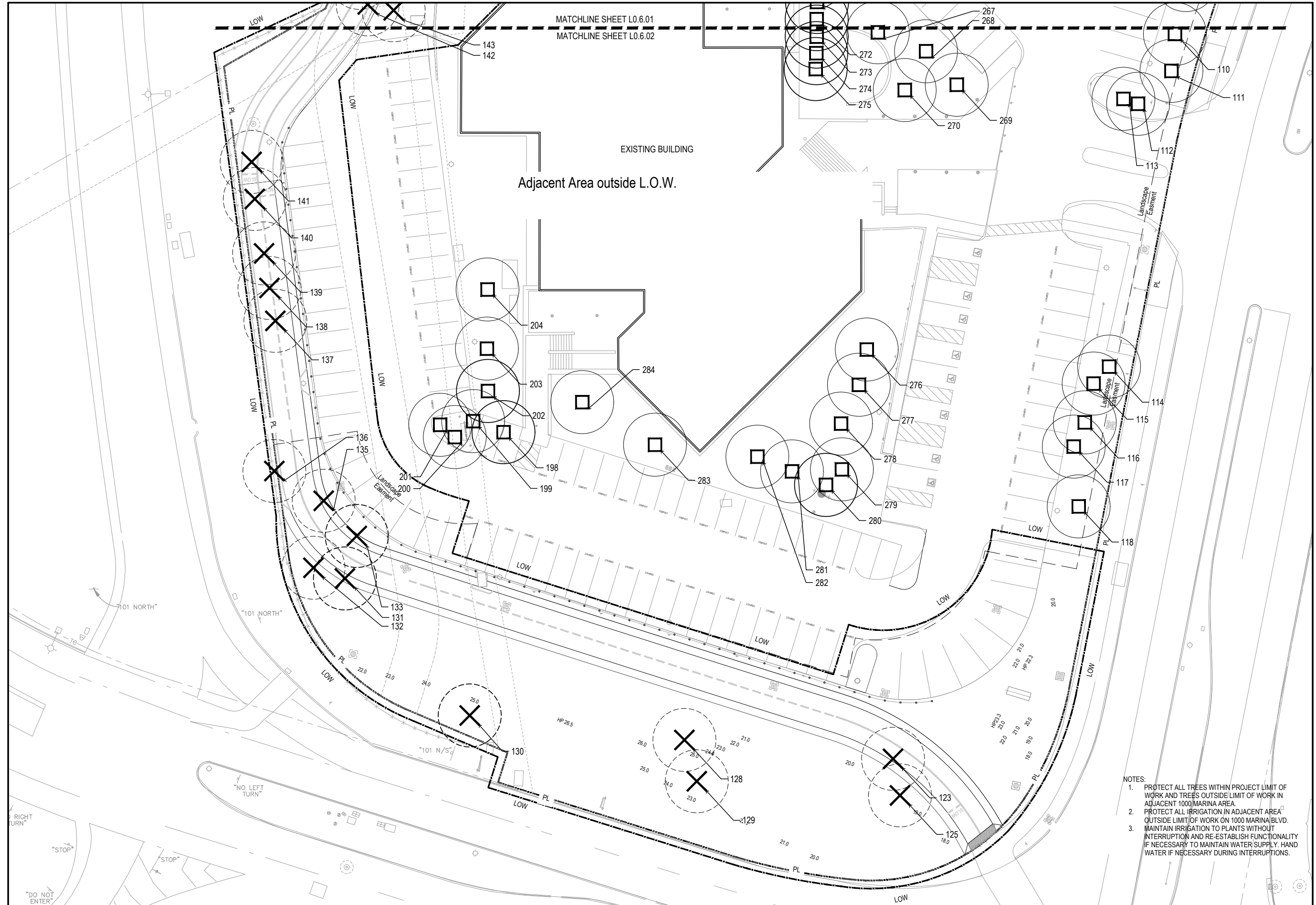
DRAWING NAME: Y:\PHA\_002 Marina-Boat Trail Extension\3.0 Dwg\3.05 Sheet Sets\L0.6.01\_Tree Protection Plan.dwg  
 PLOT DATE: 02-15-23  
 PLOTTED BY: kushal



- NOTES:
1. PROTECT ALL TREES WITHIN PROJECT LIMIT OF WORK AND TREES OUTSIDE LIMIT OF WORK IN ADJACENT 1000 MARINA AREA.
  2. PROTECT ALL IRRIGATION IN ADJACENT AREA OUTSIDE LIMIT OF WORK ON 1000 MARINA BLVD.
  3. MAINTAIN IRRIGATION TO PLANTS WITHOUT INTERRUPTION AND RE-ESTABLISH FUNCTIONALITY IF NECESSARY TO MAINTAIN WATER SUPPLY. HAND WATER IF NECESSARY DURING INTERRUPTIONS.

CIVIL ENGINEER: 													
255 Shoreline Drive, Suite 200 Redwood City, CA 94065													
LANDSCAPE ARCHITECT: 													
1015 Camella St. Berkeley, CA 94710													
STRUCTURAL ENGINEER:													
CALIFORNIA													
SAN MATEO COUNTY													
CITY OF BRISBANE													
1000 MARINA BOULEVARD TREE PROTECTION AND REMOVAL PLAN AREA 1													
<table border="1"> <thead> <tr> <th>No.</th> <th>Revisions</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>100% DESIGN DEVELOPMENT 01/27/2021</td> </tr> <tr> <td>2</td> <td>50% CONSTRUCTION DRAWINGS 05/27/2022</td> </tr> <tr> <td>3</td> <td>90% CONSTRUCTION DRAWINGS 06/28/2022</td> </tr> <tr> <td>4</td> <td>100% CONSTRUCTION DRAWINGS 10/26/2022</td> </tr> <tr> <td>5</td> <td>PLAN CHECK RESPONSE 10/26/2022</td> </tr> </tbody> </table>		No.	Revisions	1	100% DESIGN DEVELOPMENT 01/27/2021	2	50% CONSTRUCTION DRAWINGS 05/27/2022	3	90% CONSTRUCTION DRAWINGS 06/28/2022	4	100% CONSTRUCTION DRAWINGS 10/26/2022	5	PLAN CHECK RESPONSE 10/26/2022
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1	100% DESIGN DEVELOPMENT 01/27/2021												
2	50% CONSTRUCTION DRAWINGS 05/27/2022												
3	90% CONSTRUCTION DRAWINGS 06/28/2022												
4	100% CONSTRUCTION DRAWINGS 10/26/2022												
5	PLAN CHECK RESPONSE 10/26/2022												
Date: 11/16" = 1'-0" Scale: 11/16" = 1'-0" Design: Drawn: Approved: Job No. 20170365-11													
Drawing Number: L0.6.01													

DRAWING NAME: Y:\PHA\_002\_Marina-Boy Trill Extension\3.0 Dwg\3.05 Sheet Sets\LO.6.01\_Tree Protection Plan.dwg  
 PLOT DATE: 10-24-22  
 PLOTTED BY: amberk



- NOTES:
1. PROTECT ALL TREES WITHIN PROJECT LIMIT OF WORK AND TREES OUTSIDE LIMIT OF WORK IN ADJACENT 1000 MARINA AREA.
  2. PROTECT ALL IRRIGATION IN ADJACENT AREA OUTSIDE LIMIT OF WORK ON 1000 MARINA BLVD.
  3. MAINTAIN IRRIGATION TO PLANTS WITHOUT INTERRUPTION AND RE-ESTABLISH FUNCTIONALITY IF NECESSARY TO MAINTAIN WATER SUPPLY. HAND WATER IF NECESSARY DURING INTERRUPTIONS.

**PHASE 3**  
 CIVIL ENGINEER:  
**Bkf100**  
 255 Shoreline Drive, Suite 200  
 Redwood City, CA 94065  
 LANDSCAPE ARCHITECT:  
**TLS**  
 1015 Camella St. Berkeley,  
 CA 94710  
 STRUCTURAL ENGINEER:

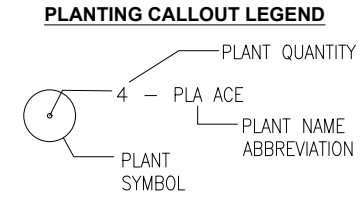
1000 MARINA BOULEVARD  
 TREE PROTECTION AND REMOVAL PLAN  
 AREA 2  
 SAN MATEO COUNTY  
 CALIFORNIA  
 CITY OF BRISBANE

Date	Scale	1/16" = 1'-0"	No.	Revisions
Design				01/27/2021
Drawn				05/27/2022
Approved				06/28/2022
				10/26/2022
				10/26/2022

Drawing Number: 10270365-11  
 Job No. 20170365-11  
 PLAN CHECK RESPONSE



TREES									
ABBR.	SYM.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	WUCOL	MAX. ROOTING DEPTH	Required Distance Between Bottom of Root ball and Clay Cap at Planting Root Ball at planting + Max Rooting Depth + 1 foot = maintain 1 foot between max rooting depth and top of clay cap (If clay Cap is present)	
MET EXC		<i>Metrosideros excelsa</i>	Newzealand Christmas Tree	39	36" BOX,16'HT,10' SPREAD	L	3'	78 inches (6.5 feet)	



CA NATIVE PLANTS - 24,481 SQ.FT.										
TYPE	SYM.	AREA (sqft)	ABBR.	BOTANICAL NAME	COMMON NAME	WUCOL	SIZE	REMARKS	MAX. ROOTING DEPTH	Required Distance Between Bottom of Root Ball and Clay Cap at Planting Root Ball at planting + Max Rooting Depth + 1 foot = maintain 1 foot between max rooting depth and top of clay cap (If clay Cap is present)
NA1		10,330	CAR DIV	<i>Carex divisa (C. tumulicola)</i>	Berkeley Sedge	L	1 GAL	18" D.C.	2'	43 inches (3.6 feet)
		630	CIS SKA	<i>Cistus skanbergii</i>	Rock Rose	L	5 GAL	24" D.C. DBL ROW	2'	47.75 inches (4 feet)
NA2		2,820	JUN PAT	<i>Juncus patens</i>	California Gray Rush	L	1 GAL	24" D.C.	2'	43 inches (3.6 feet)
NA3		6,668	LES FLA	<i>Lessingia flaginifolia 'Silver Carpet'</i>	Silver Carpet California Beach Aster	L	1 GAL	30" D.C.	2'	43 inches (3.6 feet)
NA4		1,510	MUH RIG	<i>Muhlenbergia rigens</i>	Deergrass	L	1 GAL	30" D.C.	2'	43 inches (3.6 feet)
NA5		1,000	ECH CAL	<i>Eschscholzia californica</i>	California Poppy	VL	1 GAL	24" D.C.	2'	43 inches (3.6 feet)
NA5		1,000	SIS BEL	<i>Sisyrinchium bellum</i>	Blue-eyed Grass	VL	1 GAL	18" D.C.	2'	43 inches (3.6 feet)

**PLANTING NOTES**

- OBTAIN COPY OF AND BECOME FAMILIAR WITH GEOTECHNICAL INVESTIGATION 1000 MARINA BOULEVARD WHEN AVAILABLE. REVIEW CIVIL DRAWINGS TO BECOME FAMILIAR WITH SUBSURFACE CONDITIONS INCLUDING SITE FILL SOIL OVER A CLAY CAP MATERIAL OF LOW PERMEABILITY SOIL CONFORMING TO THE GEOTECHNICAL REPORT. THE SURFACE OF THE CLAY CAP LAYER SLOPES A MINIMUM OF 1% FOR POSITIVE DRAINAGE. DO NOT PENETRATE OR DAMAGE THE CLAY CAP. IF A DISCREPANCY OR CONFLICT IS FOUND BETWEEN PLANTING LAYOUT / PLANTING DETAILS AND CLAY CAP NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY AND DO NOT PROCEED IN THAT AREA WITHOUT OWNER'S REPRESENTATIVE'S NOTIFICATION.
- VERIFY LOCATION OF SUBSURFACE UTILITIES, PIPES AND STRUCTURES. SHOULD UTILITIES OR OTHER WORK NOT SHOWN ON THE PLANS BE FOUND DURING EXCAVATIONS, PROMPTLY NOTIFY OWNER'S REPRESENTATIVE. FAILURE TO DO SO WILL MAKE CONTRACTOR LIABLE FOR DAMAGE ARISING FROM THEIR OPERATIONS SUBSEQUENT TO DISCOVERY OF UTILITIES NOT SHOWN ON PLANS.
- NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY AND PRIOR TO INSTALLATION OF PLANT MATERIAL IF IT IS DETERMINED THAT SUBGRADE SOIL CONDITIONS ARE DELETERIOUS TO PLANT GROWTH OR WILL INHIBIT DRAINAGE.
- GRADE THE SURFACE OF ALL PLANTING AREAS TO 1", REMOVE ALL ROCKS OVER 1-1/2", ALL EARTH CLODS AND THOROUGHLY INCORPORATE AMENDMENTS AND PLANTING SOIL FOR A HOMOGENOUS MIX PRIOR TO EXCAVATING PLANT PITS AND INSTALLING PLANTS.
- PREPARE FINISH GRADES TO MEET SPOT ELEVATIONS AND CONTOURS SHOWN ON GRADING PLANS IN PLANTING AREAS TO INCLUDE THE APPLICATION OF TOPSOIL. MAKE SLOPES SMOOTH AND EVENLY WORKED. DO NOT LEAVE SOIL IN CLUMP FORM. HOLD FINISH GRADE BELOW EDGE OF WALK, EDGING OR CURB AS INDICATED ON PLANTING DETAILS.
- IF CLAY CAP IS KNOWN TO BE PRESENT IN THE LOCATION OF THE PLANTING, INSTALL AND MAINTAIN MINIMUM SOIL DEPTH OF 12" UNDERNEATH BOTTOM OF MAXIMUM ROOTING DEPTH (VARIES BASED ON SPECIES) AND TOP OF CLAY CAP (IF KNOWN TO BE PRESENT), AT ALL LANDSCAPE PLANTING AREAS. NOTIFY LANDSCAPE ARCHITECT AND LANGAN PRIOR TO PROCEEDING IF ANY DISCREPANCIES ARE FOUND.
- INSTALL STEEL HEADER TO CONTAIN ALL PLANTING BEDS NOT CONTAINED BY A HARDSCAPE EDGE OF PAVING OR STRUCTURE.
- SUPPLY PLANTS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE PLANTING PLAN. PLANT QUANTITIES AND AREA TAKE OFF'S WHERE SHOWN ON THE PLANT SCHEDULE AND ON THE PLANTING PLAN ARE FOR CONVENIENCE AND GENERAL BID REFERENCE ONLY. VERIFY PLANT QUANTITIES. IF DISCREPANCIES EXIST BETWEEN THE QUANTITIES OR SQUARE FOOT AREAS SHOWN ON THE PLANT SCHEDULE AND THOSE SHOWN ON THE PLANS, THE PLANS TAKE PRECEDENCE TO IMPLEMENT DESIGN INTENT UNLESS OTHERWISE NOTED.
- NO SUBSTITUTION OF SPECIES WITHOUT APPROVAL FROM THE LANDSCAPE ARCHITECT. CONTRACT GROWN PLANTS AS REQUIRED. CONTRACT GROWN PLANTS MUST MEET INDUSTRY STANDARDS FOR SIZE UNLESS OTHERWISE NOTED.
- FURNISH PLANT MATERIAL FREE OF PESTS AND PLANT DISEASES.
- INSTALL PLANTS SO THEY BEAR SAME RELATIONSHIP OR SLIGHTLY HIGHER TO THE FINISHED GRADE THEY BORE IN THE NURSERY CONTAINER'S EXISTING GRADE UNLESS OTHERWISE INDICATED.
- STAKE TREE LAYOUT AND PLACE UNDERSTORY PLANTS, STILL IN THEIR CONTAINERS, PER PLAN LAYOUT FOR LANDSCAPE ARCHITECT'S REVIEW AND ACCEPTANCE PRIOR TO INSTALLATION. STAKE OR PAINT ON THE GROUND THE LOCATIONS OF NEW AND EXISTING UTILITIES FOR REFERENCE DURING LANDSCAPE ARCHITECT'S FIELD REVIEW OF PLANTING LAYOUT. PLANT LAYOUT SHOWN ON THE PLANTING PLAN IS DIAGRAMMATIC.
- DO NOT INSTALL PLANTS UNTIL ACCEPTANCE OF HORIZONTAL ALIGNMENT IN THE FIELD BY LANDSCAPE ARCHITECT.
- SPACE GROUND COVER, ORNAMENTAL GRASS AND PERENNIAL PLANTS TRIANGULARLY IN PLANTING AREAS UNLESS OTHERWISE NOTED.
- WHERE MULTIPLE SPECIES ARE CALLED OUT FOR AN AREA, MIX GROUND COVER PLANTS IN PLANTING BEDS TO AVOID GEOMETRICAL DISTRIBUTION UNLESS OTHERWISE SPECIFIED BY LANDSCAPE ARCHITECT.
- DO NOT PLANT TREES WITHIN 10'-0" OF CENTERLINE OF UTILITY OR WITHIN WATER EASEMENTS. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING.
- COORDINATE ON-SITE REVIEW MEETINGS FOR MOST EFFICIENT USE OF LANDSCAPE ARCHITECT'S TIME WHILE ON-SITE. NOTIFY LANDSCAPE ARCHITECT MINIMUM 72 HOURS PRIOR TO REQUESTED FIELD REVIEW MEETING AND PROVIDE AGENDA OF ITEMS THAT WILL BE READY FOR REVIEW DURING MEETING. IF AGENDA ITEMS ARE NOT COMPLETE AND READY FOR REVIEW (FOR EXAMPLE TREE LOCATIONS STAKED, SHRUB PLANTS SET OUT IN CONTAINERS AND UTILITIES STAKED/PAINTED) THE MEETING WILL BE CANCELLED. PARTIAL REVIEWS WILL NOT BE MADE.
- INSTALL 3" LAYER OF BARK MULCH AT ALL TREES, PLANTS AND PLANT BEDS, WITH THE EXCEPTION OF TURF, SEEDED AREAS AND SLOPES GREATER THAN 2:1. KEEP MULCH AWAY FROM DIRECT CONTACT WITH PLANT TRUNK OR STEM.
- ADJUST OR REMOVE ALL STAKES IN CONSULTATION WITH THE LANDSCAPE ARCHITECT UPON COMPLETION OF THE ONE (1) YEAR PLANT GUARANTEE PERIOD. ALL STAKES REMAINING SHALL THEN BECOME THE RESPONSIBILITY OF THE OWNER.
- RIP EXISTING SOIL, INSTALL TOPSOIL AND SEED ALL AREAS IMPACTED AS A RESULT OF ANY AND ALL DISTURBANCES, CONSTRUCTION, OR STORAGE OF EQUIPMENT WHETHER SUCH AREAS ARE SHOWN ON THE PLANS OR NOT. CONTRACTOR TO FIELD VERIFY AREAS OF SEED PRIOR TO SUBMITTING A BID.
- PROVIDE IRRIGATION TO ALL PLANTED AREAS THROUGH AUTOMATED WEATHER-BASED IRRIGATION SYSTEM WITH WATERSENSE IRRIGATION CONTROLLERS USING LOCAL WEATHER DATA TO DETERMINE WHEN AND HOW MUCH TO WATER, RAINFALL SHUTOFF DEVICES TO TURN OFF SYSTEM DURING RAINY WEATHER AND IN-GROUND DRIP EMITTERS AS SHOWN.
- PERFORM WORK IN ACCORDANCE WITH PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP). REFER TO CIVIL DRAWINGS.
- 'WUCOL', SHOWN ON PLANT SCHEDULE, REFERS TO 'WATER USE CLASSIFICATION OF LANDSCAPE SPECIES', A PROJECT INITIATED AND FUNDED BY THE CALIFORNIA DEPARTMENT OF WATER RESOURCES TO PROVIDE AN ASSESSMENT OF IRRIGATION WATER NEEDS OF PLANT SPECIES LISTED IN THE DATABASE. EVALUATIONS ARE INDICATED BY VL (VERY LOW), L (LOW), M (MODERATE) AND H (HIGH) WATER NEEDS.

I have complied with the criteria of the ordinance and applied them for the efficient use of water in the landscape design plan.  
 TLS Landscape Architecture

CIVIL ENGINEER:  
  
 255 Shoreline Drive, Suite 200  
 Redwood City, CA 94065

LANDSCAPE ARCHITECT:  
  
 1015 Camella St. Berkeley, CA 94710

STRUCTURAL ENGINEER:

1000 MARINA BOULEVARD  
 PLANTING LEGEND AND NOTES  
 SAN MATEO COUNTY  
 CITY OF BRISBANE  
 CALIFORNIA

Date	Scale	Design	Drawn	Approved	Job No.	Revisions
					20170365-11	
						100% DESIGN DEVELOPMENT 01/27/2021
						50% CONSTRUCTION DRAWINGS 05/27/2022
						90% CONSTRUCTION DRAWINGS 06/28/2022
						100% CONSTRUCTION DRAWINGS 10/26/2022
						PLAN CHECK RESPONSE 10/26/2022

Drawing Number: **L1.6.00**



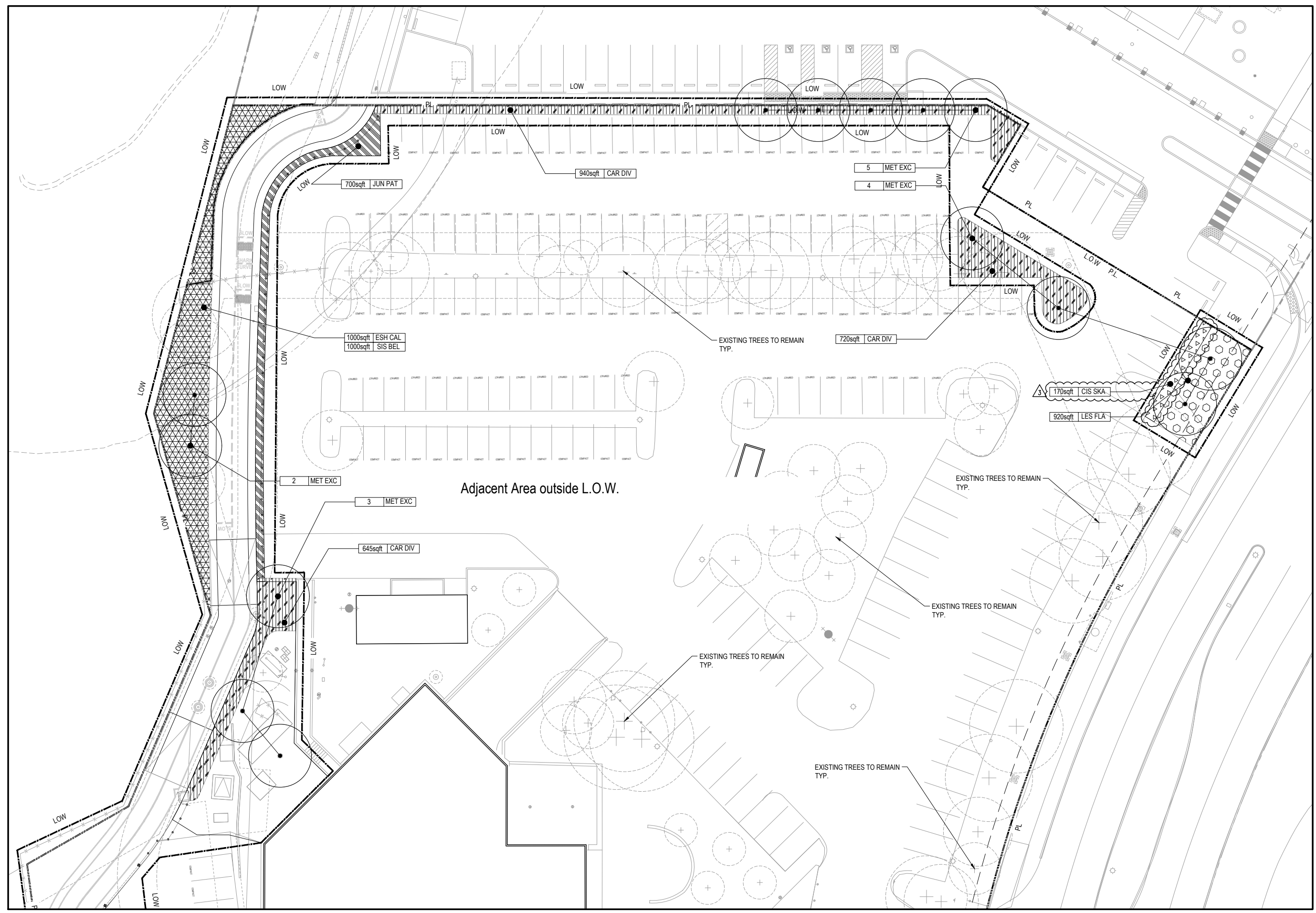
CALIFORNIA

1000 MARINA BOULEVARD  
LANDSCAPE PLANTING PLAN  
AREA 1  
SAN MATEO COUNTY  
CITY OF BRISBANE

Date	No.	Revisions
01/27/2021		100% DESIGN DEVELOPMENT
05/27/2022		50% CONSTRUCTION DRAWINGS
06/28/2022		90% CONSTRUCTION DRAWINGS
10/26/2022		100% CONSTRUCTION DRAWINGS
10/26/2022		PLAN CHECK RESPONSE

Drawing Number:  
**L1.6.01**

DRAWING NAME: Y:\PHA\_002\_Marina-Boy\_Trail\_Extension\3.0\_Dwgs\3.05\_Sheet Sets\L1.6.01-02\_Planting Plan.dwg  
PLOT DATE: 01-05-23  
PLOTTED BY: amberk

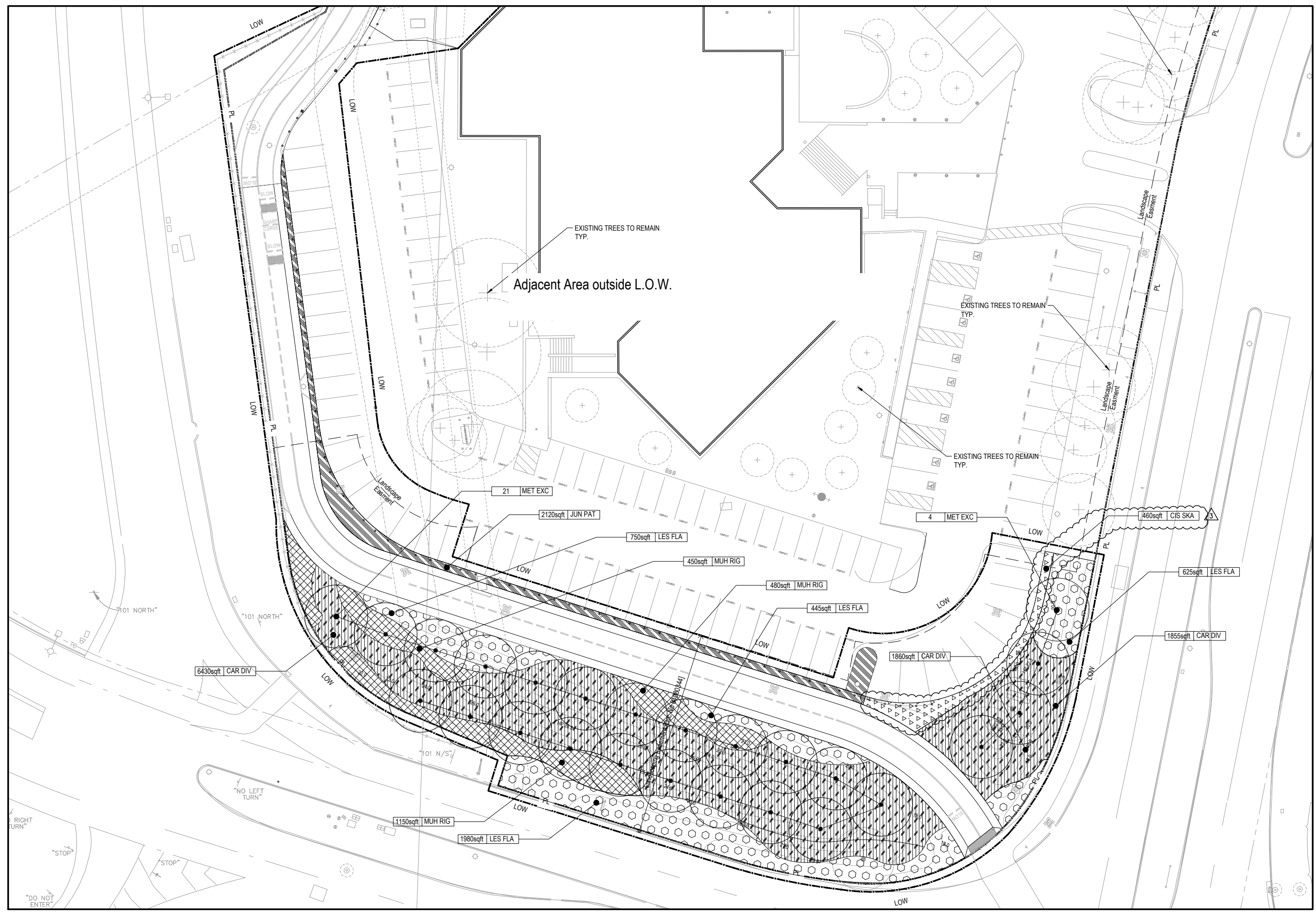






Date	Scale	No.	Revisions
	1/16" = 1'-0"		100% DESIGN DEVELOPMENT 01/27/2021
			50% CONSTRUCTION DRAWINGS 05/27/2022
			90% CONSTRUCTION DRAWINGS 06/28/2022
			100% CONSTRUCTION DRAWINGS 10/26/2022
			PLAN CHECK RESPONSE 10/26/2022

DRAWING NAME: Y:\PHA\_002 Marina-Boy Trail Extension\3.0 Dwg\3.05 Sheet Sets\L1.6.01-02\_Planting Plan.dwg  
PLOT DATE: 01-05-23 PLOTTED BY: amberk

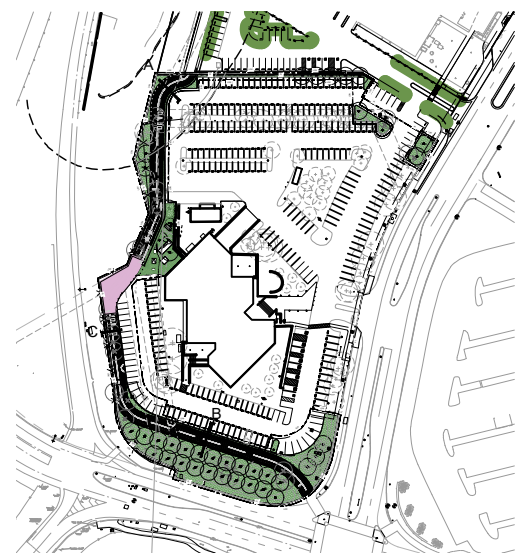




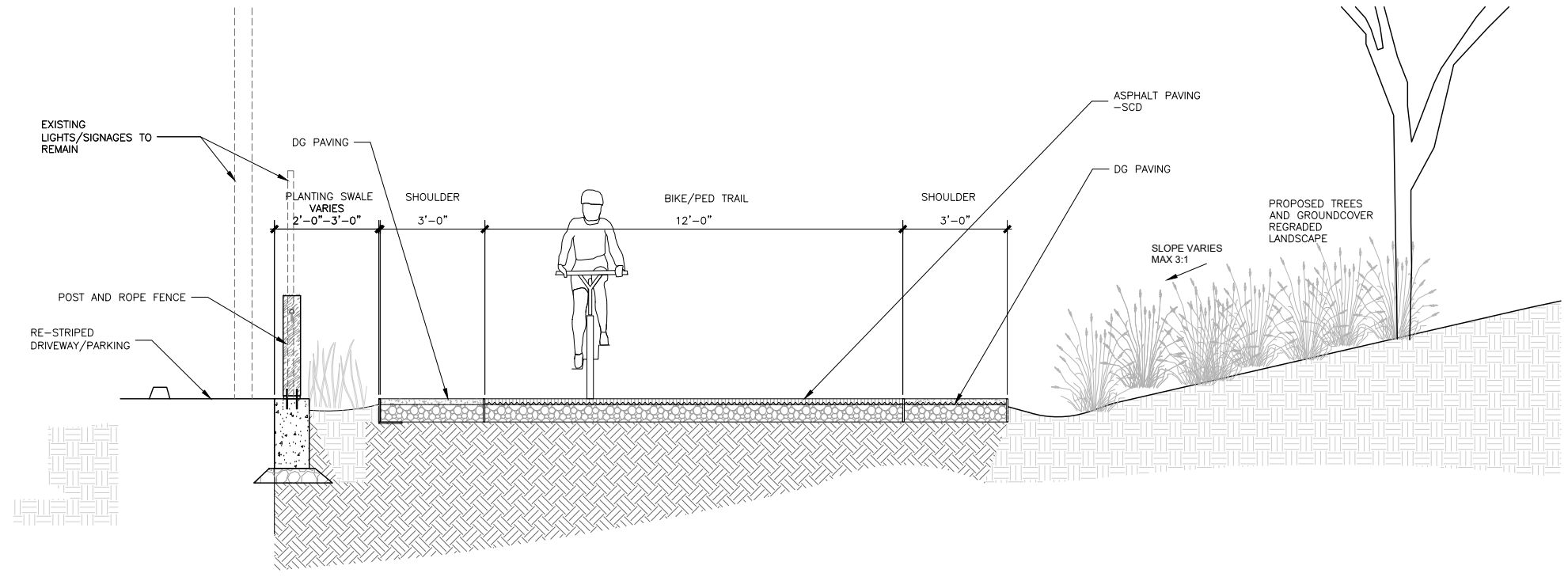
No.	Revisions
1	100% DESIGN DEVELOPMENT 01/27/2021
2	50% CONSTRUCTION DRAWINGS 05/27/2022
3	90% CONSTRUCTION DRAWINGS 06/28/2022
4	100% CONSTRUCTION DRAWINGS 10/26/2022
5	PLAN CHECK RESPONSE 10/26/2022

Date	Scale	Design	Drawn	Approved	Job No.
					20170365-11

Drawing Number:  
**L2.1.1**



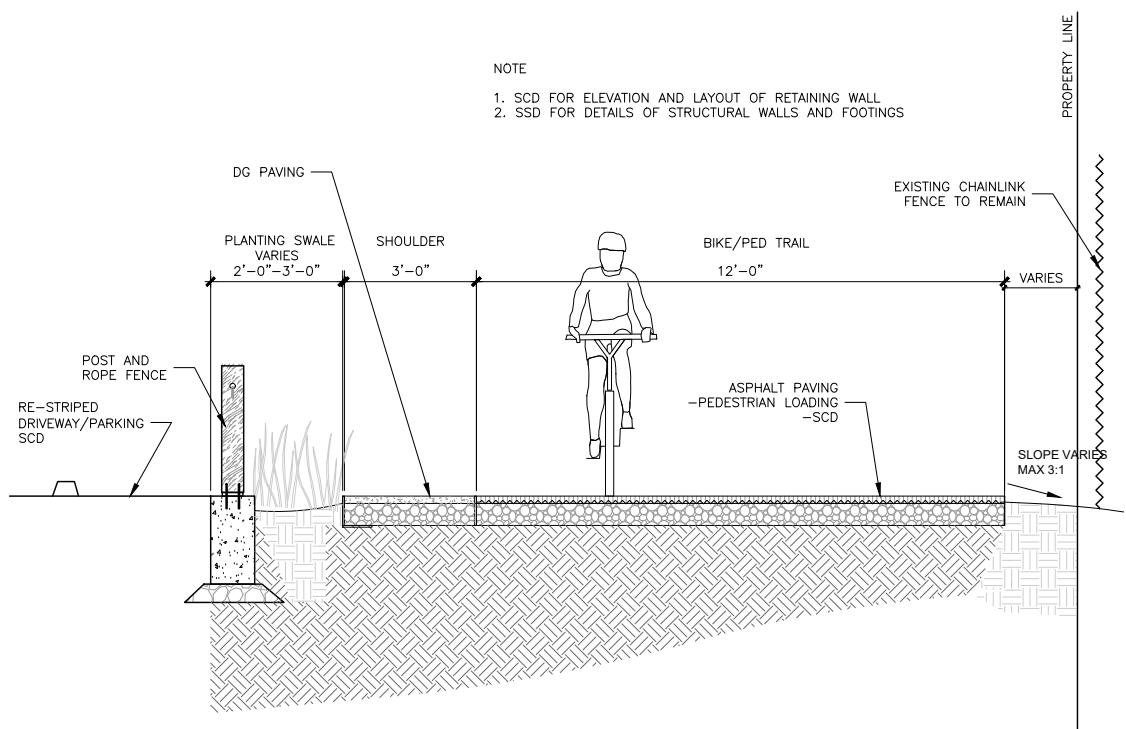
KEY PLAN



TYPICAL BAY TRAIL SECTION-B 02  
 SCALE : 1/2"=1'-0"

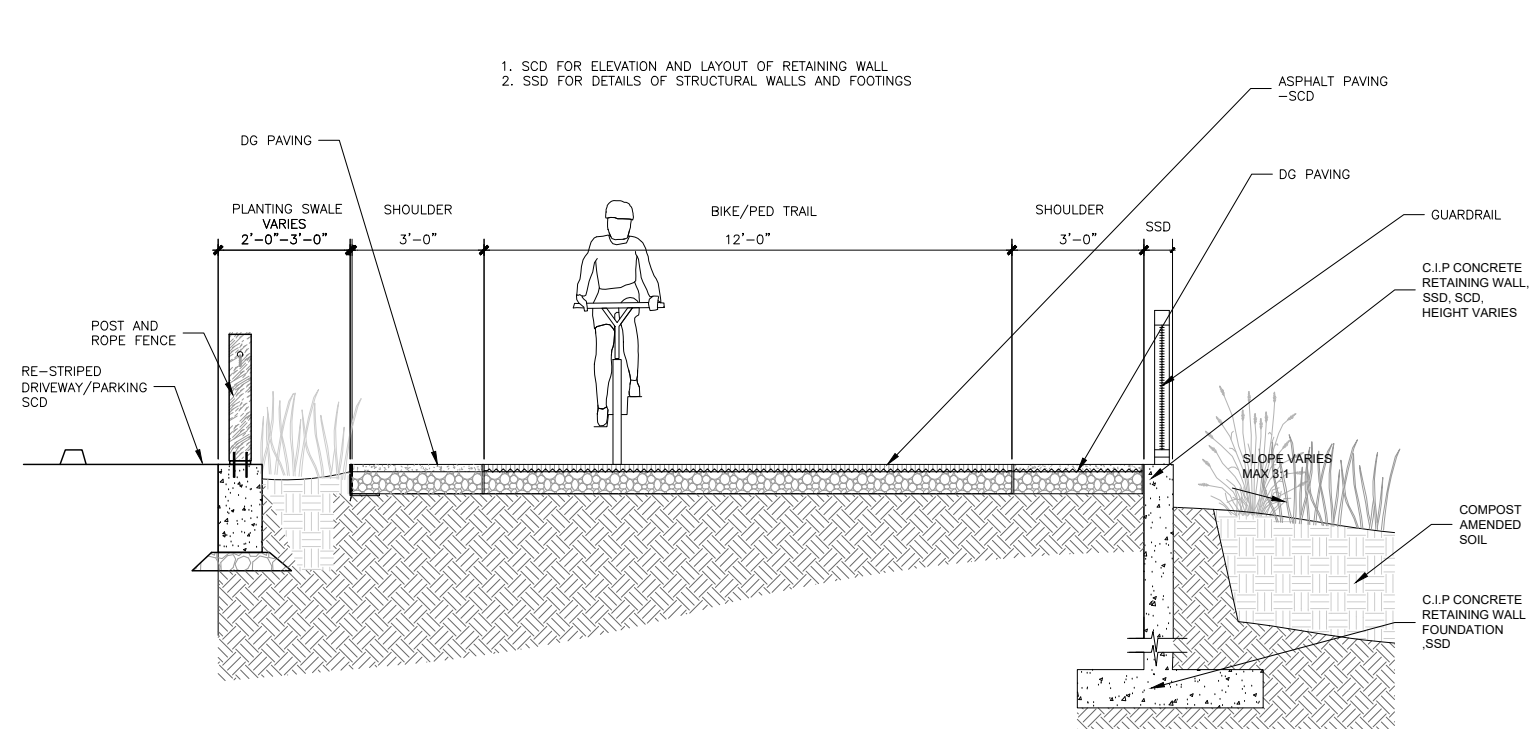
NOTE

1. SCD FOR ELEVATION AND LAYOUT OF RETAINING WALL
2. SSD FOR DETAILS OF STRUCTURAL WALLS AND FOOTINGS



TYPICAL BAY TRAIL SECTION-C 03  
 SCALE : 1/2"=1'-0"

1. SCD FOR ELEVATION AND LAYOUT OF RETAINING WALL
2. SSD FOR DETAILS OF STRUCTURAL WALLS AND FOOTINGS



TYPICAL BAY TRAIL SECTION-A 01  
 SCALE : 1/2"=1'-0"

- NOTES:
1. SCD FOR ELEVATION AND LAYOUT OF RETAINING WALL
  2. SSD FOR DETAILS OF STRUCTURAL WALLS AND FOOTINGS.

DRAWING NAME: Y:\PHA\_002\_Marina-Bay\_Trail\_Extension\3.0\_Dwgs\3.05\_Sheet Sets\2.1.1\_Enlarged Sections.dwg  
 PLOT DATE: 01-05-23  
 PLOTTED BY: amberk

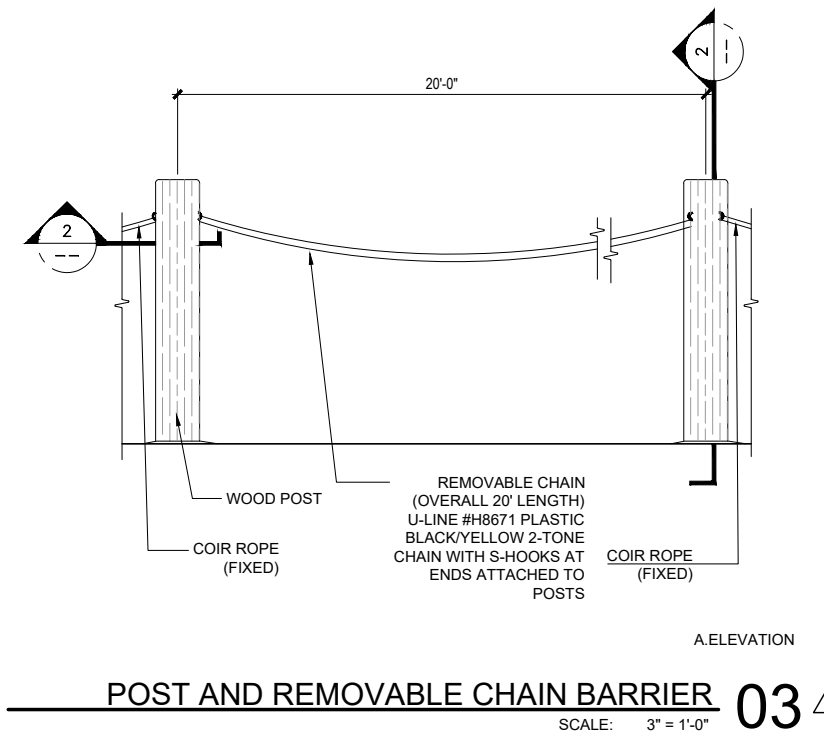


**GUARDRAIL NOTES:**

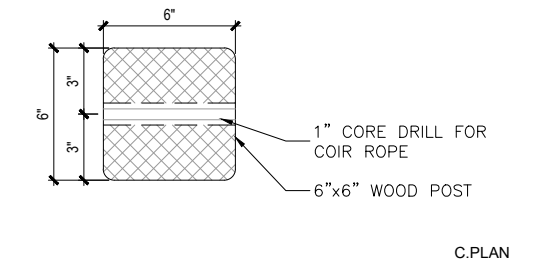
- DESIGN-BUILD TO MEET CODES.
- GUARDRAIL TO BE CAPABLE OF WITHSTANDING STRUCTURAL LOADS WITHOUT EXCEEDING ALLOWABLE DESIGN WORKING STRESS OF MATERIALS FOR GUARDRAILS, ANCHORS AND CONNECTIONS. THE GUARDRAIL SYSTEM IS TO BE DESIGNED AND CONSTRUCTED FOR A CONCENTRATED LOAD OF 200 LBS. APPLIED AT ANY SINGLE POINT AND IN ANY DIRECTION FOR A UNIFORM LATERAL FORCE OF 50 LBS./LIN. FT. IN ANY DIRECTION. THE CONCENTRATED AND UNIFORM LOADING CONDITIONS SHALL NOT BE APPLIED SIMULTANEOUSLY. THE TOP RAIL SHALL BE DESIGNED TO SUPPORT MINIMUM 300 LB. CONCENTRATED SINGLE POINT LOAD APPLIED AT ANY POINT VERTICALLY OR HORIZONTALLY.
- DRAWINGS TO BE SIGNED BY CALIFORNIA LICENSED STRUCTURAL ENGINEER.
- FINISHED HEIGHT 42".



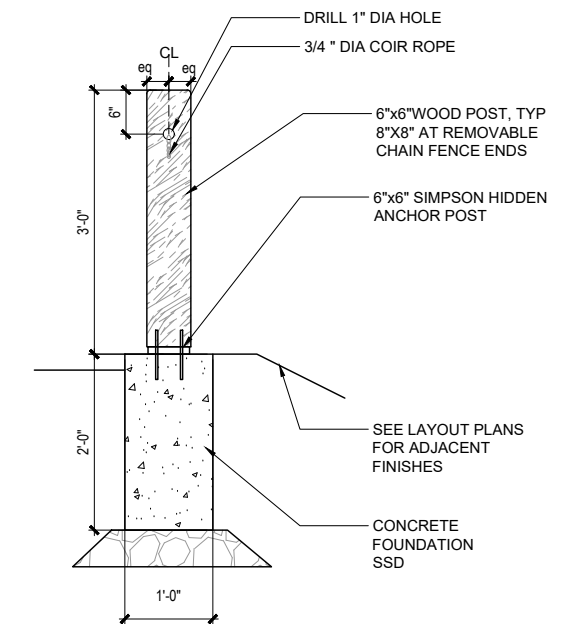
REFERENCE IMAGE :  
 SUPPLIED BY ERGEON  
 FENCES, CALIFORNIA



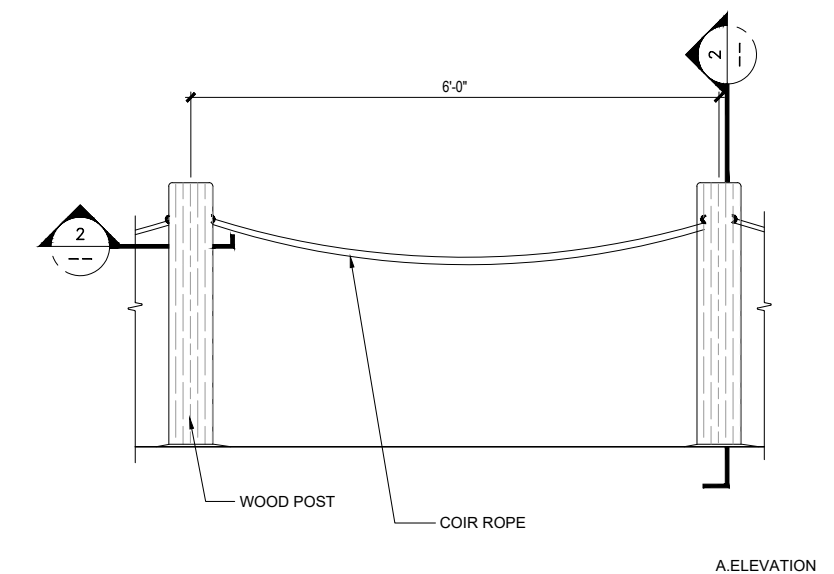
**POST AND REMOVABLE CHAIN BARRIER 03**  
 SCALE: 3" = 1'-0"



C.PLAN



B.SECTION



A.ELEVATION

**POST AND ROPE FENCE 01**  
 SCALE: 3" = 1'-0"



**RENDERING SHOWING PROPOSED GUARDRAIL AND FENCE ALONG BAY TRAIL 02**  
 SCALE: 1 1/2" = 1'-0"

Date	Scale	Design	Drawn	Approved	Job No	Revisions
AS SHOWN	AS SHOWN	AS SHOWN	AS SHOWN	AS SHOWN	AS SHOWN	100% DESIGN DEVELOPMENT 01/27/2021
						50% CONSTRUCTION DRAWINGS 05/27/2022
						90% CONSTRUCTION DRAWINGS 06/28/2022
						100% CONSTRUCTION DRAWINGS 10/26/2022
						PLAN CHECK RESPONSE 10/26/2022