Bid No. 24-214B

ADDENDUM NO. 1

San Mateo-Foster City School District
Bowditch Middle School
Academic Quad and Gymnasium Building
(Also Known As: Academic Core and Gym)
D.S.A. File # 41-26
D.S.A. Application # 01-120472 & # 01-120473

Date:	16 November 2023
Owner:	San Mateo-Foster City School District 1170 Chess Drive Foster City, CA 94404
Project:	Bowditch Middle School Academic Quad and Gymnasium Building 1450 Tarpon Street Foster City, CA 94404
Architect:	Harley Ellis Devereaux (HED) 417 Montgomery Street, Suite 400 San Francisco, CA 94104

By: Michael J. Myers, AIA

This Addendum has been prepared to clarify, modify, delete, or add to the drawings and/or specifications for the above referenced project, and revisions to items listed here shall supersede description thereof prior to the above stated date. All conditions not specifically referenced here shall remain the same. It is the obligation of the Prime Contractor to make subcontractors aware of any items herein that may affect submitted bids.

Acknowledge receipt of this addendum by inserting its number and date in the Bid Form. Failure to do so may subject bidder to disqualification.

All addenda items refer to the drawings and specifications unless specifically noted otherwise.

TOTAL PAGES IN THIS ADDENDUM (excluding attachments): 3

PART A – CHANGES TO PROCUREMENT AND CONTRACTING REQUIREMENTS

AD-1.A01 **Sign in Sheet-Bid Walk-Academic Core and Gym 11.13.23** – Sign-in sheet from bid walk on 11.13.23 attached.

AD-1.A02 **Clarify Project Manual Divisions 00 and 01**– Except for the Table of Contents, which vary slightly between the Academic Quad and the Gymnasium, divisions 00 and 01 in the project manual are identical. Only one set of documents, 00 41 13 through 00 45 85, shall be submitted as part of the bid.

AD-1.A02 **00 11 16 - Notice to Bidders - Invitation to Bid** – Replace document in its entirety with document attached.

AD-1.A03 **Clarify Existing Information Section 00 31 19 -** See document 00 31 19 - Existing Information Regarding Project Site page one. Clarifications to this information:

(1) Geotechnical Reports – issued as bid supplement with construction documents – for reference only.

LIST ALL GEOTECHNIC

(2) Soils Investigation Report – issued as bid supplement with construction documents – for reference only.

~~*(3) Mitigation Monitoring Plan from CEQA document -*~~ *Omit this reference.*

~~*(4) Original Construction Drawings – (e) campus*~~ *– Omit this reference.*

(5) Survey of Site – Record Topographic survey issued as part of this addendum #1.

AD-1.A05 **Revise Milestone & Constraints Site Plan** – **Revise Construction Duration** – See attached file *'Bowditch MS New Academic Core & Gym - Milestone & Constraints Site Plan r1.pdf'*: construction duration revised to Jan. 1, 2024 - Dec. 31, 2025

PART B – CHANGES TO SPECIFICATIONS

N/A

PART C – CHANGES TO DRAWINGS

AD-1.C01 **Revision to Landscape Drawings - Approved by DSA** – Revision A added scope to the landscape and irrigation to the Academic Quad construction drawings. This revision was submitted to DSA when documents were published and (6) sheets affected by this change were inserted to the bid set without a DSA stamp. Attached find the stamped sheets. ***Note that the stamped sheets are exactly the same as in the bid set with the exception of the DSA approval stamp.***

PART D– BIDDER QUESTIONS

AD-1.D01 **Project Duration:** Can you please tell me the anticipated start/end dates for construction of this project?
Answer: Please see addendum item AD-1.A05. Milestone site plan revised.

AD-1.D02 **Bidding Structure:** Are these two projects bidding separately?
Answer: Projects bid together. Per the bid form 00 41 13 provide a separate number for Bldg. W. This is to track value for the separate DSA application. Total base bid is summation of value for both sets of construction documents.

AD-1.D03 **Sign-In Sheet for Bid Walk of 11.13.23:** May we have the Sign -In sheet for the bid walk occurring on 11.13.2023?
Answer: See item AD-1.A01 above. Sign in sheet attached to this addendum.

AD-1.D04 **Non-Union Contractors:** We are a non-union fire protection company that is prequalified with the district. Will the project require us to be union? Or sign into the local union hall for this work?

Answer: The District does not have a Project Labor Agreement for this - site, pre-qualified non-union contractors are acceptable. California Department of Industrial Relations wage rates shall be followed.

ATTACHMENTS

1. Document 00 11 16 - Notice to Bidders - Invitation to Bid
2. Sign in Sheet-Bid Walk-Academic Core and Gym 11.13.23
3. Bowditch MS New Academic Core & Gym - Milestone & Constraints Site Plan r1
4. Record Topographic Survey of Bowditch Middle School dated 07.02.2021.
5. Academic Quad Landscape Drawings - DSA approved Revision A.

END OF ADDENDUM

DOCUMENT 00 11 16

INVITATION TO BID

1. Notice is hereby given that the governing board ("Board") of the San Mateo-Foster City School District ("District" or "Owner") will receive sealed bids for the following project, **Bid No. 24-214**

BOWDITCH MIDDLE SCHOOL

NEW GYM BUILDING – PROJECT #24-214A

NEW ACADEMIC CORE (4 CLASSROOM BUILDINGS, NEW LIBRARY, & NEW COUNSELING BUILDING – PROJECT #24-214B

2. To bid on this Project, the Bidder is required to have been prequalified by the District. To bid on this Project, the Bidder is required to have been prequalified by the District. Pre-qualification for all bidding General Contractors is to be through Quality Bidders at **www.qualitybidders.com** In addition, if the Project has electrical, mechanical, or plumbing components that will be performed by subcontractors performing under the following license classification (s), C-4, C-7, C-10, C-16, C-20, C-34, C-36, C-38, C-42, C-43, and/or C-46. then each of those subcontractors that intend to bid as a first-tier subcontractor to a general contractor (prime contractor) are required to have been prequalified by the District, through Quality Bidders at **www.qualiltybidders.com** Prior to the bid**,** a minimum of five days before bids are received the District will issue by Bid Addendum all MEP Contractors pre-qualified through Quality Bidders.

3. Sealed Bids will be received until **December 20, 2023 at 2:00 p.m.** at the **San Mateo-Foster City School District Office**, located at **1170 Chess Dr., Foster City, CA, 94404** at or after which time the bids will be opened and publicly read aloud. Any claim by a bidder of error in its bid must be made in compliance with section 5100 et seq. of the Public Contract Code. Any bid that is submitted after this time shall be non-responsive and returned to the bidder.

4. The Project generally consists of: **Construction of a New Gym Building, New Academic Core (3 classroom buildings), New Library Building, and New Counseling Building**

5. All bids shall be on the form provided by the District. Each bid must conform and be responsive to all pertinent Contract Documents, including, but not limited to, the Instructions to Bidders.

6. To bid on this Project, the Bidder is required to possess one or more of the following State of California Contractor Licenses:

   A – General Engineering Contractor
   B – General Building Contractor

   The Bidder's license(s) must be active and in good standing at the time of the bid opening and must remain so throughout the term of the Contract.

7. As security for its Bid, each bidder shall provide with its Bid form
   - a bid bond issued by an admitted surety insurer on the form provided by the District,
   - cash, or
   - a cashier's check or a certified check, drawn to the order of the San Mateo-Foster City School District,

   in the amount of ten percent (10%) of the total bid price. This bid security shall be a guarantee that the Bidder shall, within seven (7) calendar days after the date of the Notice of Award, enter into a contract with the District for the performance of the services as stipulated in the bid.

8. The successful Bidder shall be required to furnish a 100% Performance Bond and a 100% Payment Bond if it is awarded the contract for the Project.

9. The successful Bidder may substitute securities for any monies withheld by the District to ensure performance under the Contract, in accordance with the provisions of section 22300 of the Public Contract Code.

10. The successful Bidder and its subcontractors shall pay all workers on the Project not less than the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work as determined by the Director of the Department of Industrial Relations, State of California, for the type of work performed and the locality in which the work is to be performed within the boundaries of the District, pursuant to sections 1770 et seq. of the California Labor Code. Prevailing wage rates are available on the Internet at: <http://www.dir.ca.gov>. Bidders and Bidders' subcontractors shall comply with the registration and qualification requirements pursuant to sections 1725.5 and 1771.1 of the California Labor Code.

11. Two Pre-Bid Conferences and Site Walks will be held at the site. One on **November 13, 2023 at 10:30 a.m.** and the second one on **November 30, 2023 at 9:00 a.m.**, both Pre-Bid Conferences & Site Walks will be at **Bowditch Middle School** located at **1450 Tarpon St., Foster City, CA**. **Potential bidders are asked to meet in the school's parking lot.** It is mandatory that the Contractor attend one or the other Pre-Bid Conference and Site Walk. All participants are required to sign in. The Pre-Bid and Site Walk is expected to take approximately 1-1.5 hour(s). Failure to sign in and attend or tardiness will render bid ineligible.

12. Contract Documents will be available for review at the following Builders' Exchanges:

Bay Area Builders Exchange	(510) 483-8880
Construction Bid board	(800) 479-5314
Dodge Data & Analytics	(877) 784-9556

Contract Documents will be available for a **non-refundable fee on November 9, 2023** at ARC Northern California:

ARC – San Carlos
829 Cherry Lane
San Carlos, CA 94070
Contact: Scott Barley
Tel: 650.631.2310
Email: sancarlos@e-arc.com

The bidder is responsible for all printing, shipping and handling fees for hard copies of the drawings. The District will pay for viewing and/or downloading the electronic/soft copy version of the drawings.

13. The District's Board has found and determined that the following item(s) shall be used on this Project based on the purpose(s) indicated. (Public Contract Code section 3400(c).) A particular material, product, thing, or service is designated by specific brand or trade name for the following purpose(s):

Add Single Source Items:

- Door Hardware (Schlage)
- Plumbing (American Standard)
- Energy Management System (Delta)
- Fire Alarm (Notifier)

- Camera System (Verkada)
- Intrusion Alarm (Verkada)
- Toilet partitions (Bobrick)
- Clock-Bell-Announcement System (Advanced Network Devices)
- Thermostats (Delta)
- Water bottle fillers/water fountains (Haws)
- HVAC (Rooftop – Carrier / Trane and York) (Heat pump System- Samsung)

14. The District's Board reserves the right to reject any and all bids and/or waive any irregularity in any bid received. If the District awards the Contract, the security of unsuccessful bidder(s) shall be returned within sixty (60) days from the time the award is made. Unless otherwise required by law, no bidder may withdraw its bid for ninety (90) days after the date of the bid opening.

15. The District shall award the Contract, if it awards it at all, to the lowest responsive responsible bidder based on: **TOTAL Base Bid amount only**

16. Bid Period questions about this project are to be submitted in writing to the architect: **rfilary@hed.design** and cramm@hed.design and **cc: rprice@smfcsd.net & mronzani@smfcsd.net**

END OF DOCUMENT

BID-OPENING
SIGN-IN SHEET

Bid No. 24-214

BOWDITCH MIDDLE SCHOOL NEW GYM AND ACADEMIC CORE

PROJECT NO. 24-214A & 24-214B

11/13/2023

MANDATORY BID WALK TIME: 10:30 AM

SAN MATEO-FOSTER CITY SCHOOL DISTRICT
LIVE·LEAD·LEARN

	COMPANY NAME	CONTACT INFORMATION	ADDRESS
1	HEB	CONTACT: ROB FILARY PHONE: (707) 380-5253 E-MAIL: rfilary@heb.design	ADDRESS: 417 Montgomery St San Francisco, CA 94104
2		CONTACT: PHONE: E-MAIL:	ADDRESS:
3		CONTACT: PHONE: E-MAIL:	ADDRESS:
4		CONTACT: PHONE: E-MAIL:	ADDRESS:
5		CONTACT: PHONE: E-MAIL:	ADDRESS:
6		CONTACT: PHONE: E-MAIL:	ADDRESS:
7		CONTACT: PHONE: E-MAIL:	ADDRESS:
8		CONTACT: PHONE: E-MAIL:	ADDRESS:

BID-OPENING
SIGN-IN SHEET

SAN MATEO-FOSTER CITY SCHOOL DISTRICT
LIVE·LEAD·LEARN

BOWDITCH MIDDLE SCHOOL NEW GYM AND ACADEMIC CORE

PROJECT NO. 24-214A & 24-214B

11/13/2023

MANDATORY BID WALK TIME: 10:30 AM

	COMPANY NAME	CONTACT INFORMATION	ADDRESS
9		CONTACT: _____ PHONE: _____ E-MAIL:	
10		CONTACT: _____ PHONE: _____ E-MAIL:	
11		CONTACT: _____ PHONE: _____ E-MAIL:	
12		CONTACT: _____ PHONE: _____ E-MAIL:	
13		CONTACT: _____ PHONE: _____ E-MAIL:	
14		CONTACT: _____ PHONE: _____ E-MAIL:	
15		CONTACT: _____ PHONE: _____ E-MAIL:	
16		CONTACT: _____ PHONE: _____ E-MAIL:	
17		CONTACT: _____ PHONE: _____ E-MAIL:	

Bowditch Middle School
Site Plan Legend

(E) Buildings/Site Improvements before Modernization

Buildings/Site Improvements in contract scope

Buildings/Site Improvements currently under construction through April 2024

Proposed Construction duration:
Jan. 1, 2024 - Dec. 31, 2025

Switchgear enclosure and intercepting pull boxes to (e) switchgear complete on or before March 20, 2024. Switchover to the new switchgear: April 1-5, 2024. Demo of the old switch would follow immediately after.

allow and maintain food service truck access to (e) warming kitchen throughout course of construction

Possible construction trailer site

location of current fence for phase under construction through April 2024 - portions of Quad package scope within this fence line may not occur until this construction complete

(e) bike rack enclosure

Landscaping around Bldg. P - Complete on or before July 20, 2024

(e) gravel path to remain for access to (e) bike racks

approximate location of current construction phase trailers and storage containers on site through April 2024

current storage location of owner furnished contractor installed main electrical switchgear

BEACH PARK BO

LIMIT OF WORK

SERVICE YARD

SOCIAL CORE / QUAD

ACADEMIC QUAD

8-PLEX CLASSROOM BUILDING

FIRE ACCESS LANE

A B C D E F G H I J K L M N O P Q R S T U V W

HED

CONSTRUCTION MILESTONE & (E) CONSTRAINTS SITE PLAN

rev. 11.15.2023

SAN MATEO-FOSTER CITY SCHOOL DISTRICT
LIVE · LEAD · LEARN

BY	REVISIONS

LEXANDER & SSOCIATES INC.
SURVEYORS
ENGINEERS
PLANNERS
147 OLD BERNAL AVE. SUITE 10, PLEASANTON, CALIFORNIA (925) 462-2255

SHEET TITLE
1450 TARPON STREET
FOSTER CITY, CALIFORNIA

PROJECT NAME
TOPOGRAPHIC SURVEY
BOWDITCH MIDDLE SCHOOL

DATE	7-1-2021
SCALE	1"=50'
DRAWN	DRAFTER
JOB	21169
DRAWING	21169-C3D
SHEET	1
OF	5 SHEETS

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.
50 0 25 50 100 200

PROFESSIONAL LAND SURVEYOR
DARRYL A. ALEXANDER
No. L 5071
STATE OF CALIFORNIA

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE CALIFORNIA LAND SURVEYOR'S ACT AT THE REQUEST OF ROBERT PRICE IN JUNE OF 2021.

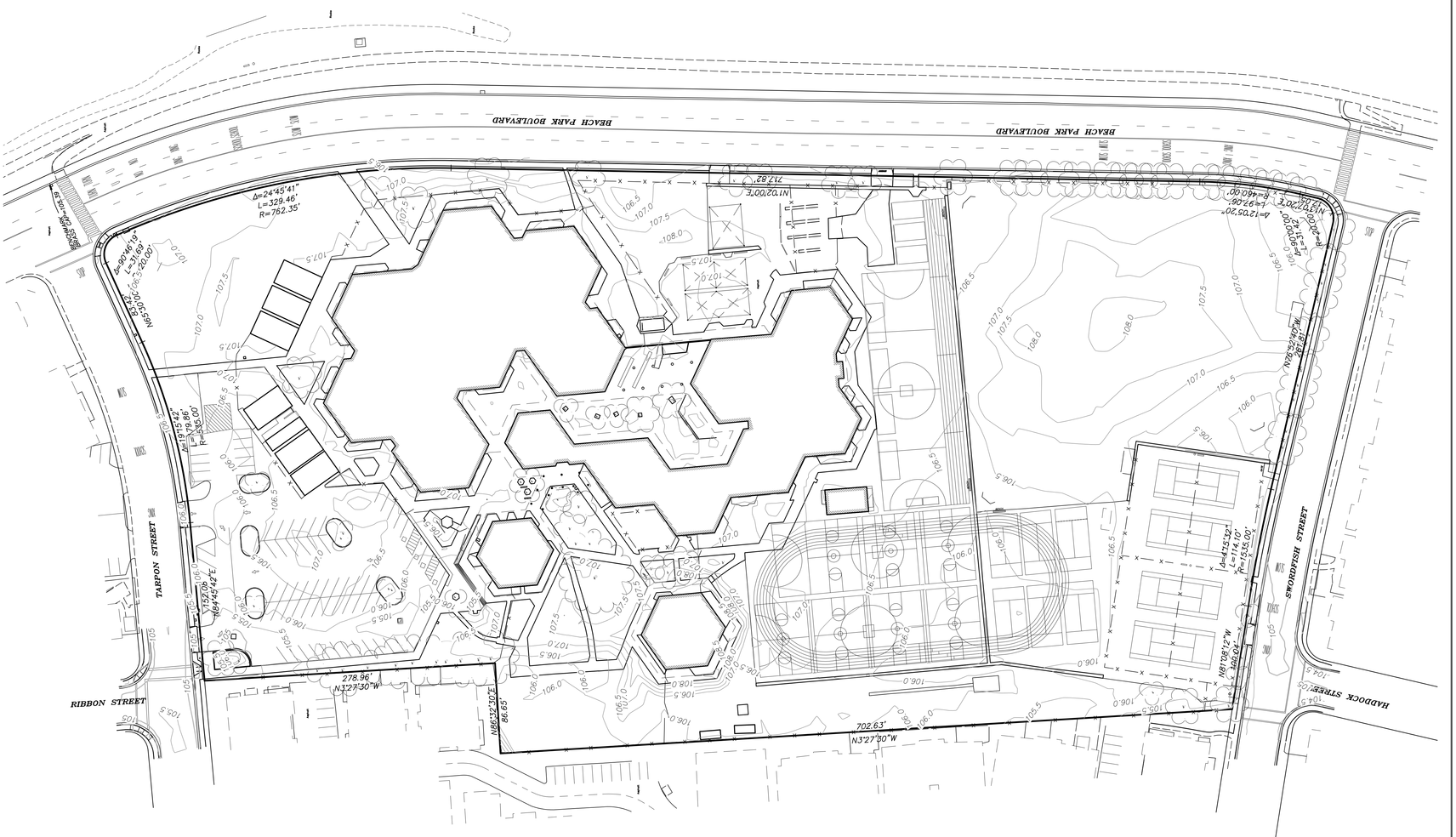
DARRYL ALEXANDER — DATE
L.S. NO. 5071

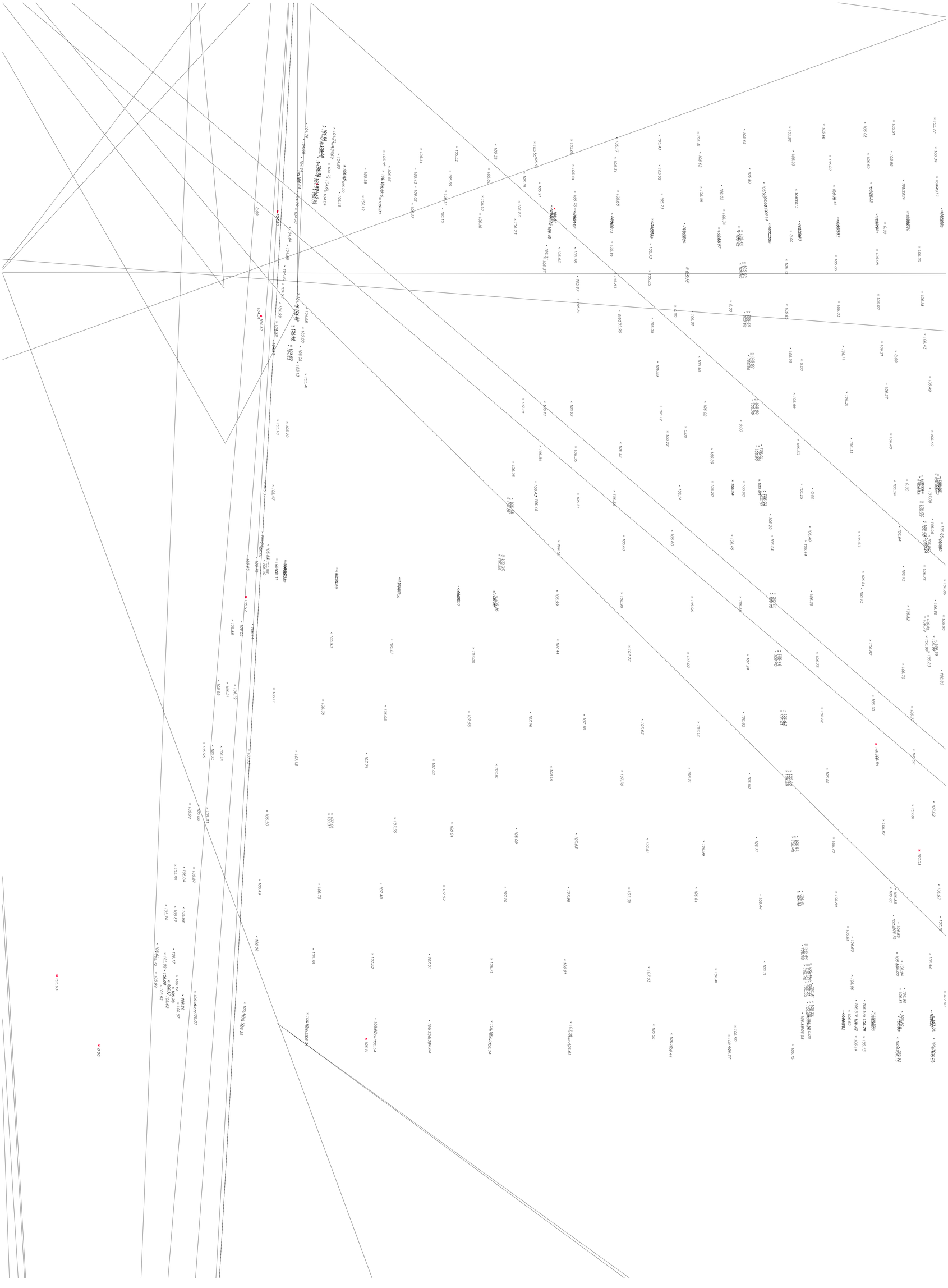
NOTE: THE BUILDING LINES SHOWN HEREON WERE ESTABLISHED FROM THE OUTSIDE FINISHED SURFACE OR RIMM. THE LOCATION OF THE FOUNDATION MAY DIFFER.

BASIS OF BEARINGS
THE BEARINGS SHOWN HEREON WERE TAKEN FROM PARCEL MAP 42-80 (53 VOL 45) SAN MATEO COUNTY RECORDS

BASIS OF ELEVATIONS
ELEVATIONS SHOWN HEREON WERE BASED ON FOSTER CITY BENCHMARK #124, BRASS CAP ON CATCH BASIN LOCATED AT THE BAY SIDE OF BEACH PARK BOULEVARD @ TARPON STREET
ELEVATION= 105.39 (NGVD 88 + 100')

PIV	POST INDICATOR VALVE
FDC	FIRE DEPT. CONNECTION
TC	TOP CURB
GR	GRATE
INV	INVERT
SWI	STORM WATER INLET
CO	CLEANOUT
W	WATER
SS	SANITARY SEWER
SD	STORM DRAIN
E	ELECTRIC
G	GAS
— x —	FENCE
⋈	WATER VALVE
⋈	FIRE HYDRANT
MH	MANHOLE





BY	REVISIONS

LEXANDER & ASSOCIATES INC.
SURVEYORS
ENGINEERS
PLANNERS
147 OLD BERNAL AVE. SUITE 10, PLEASANTON, CALIFORNIA (925) 462-2255

SHEET TITLE
1450 TARPON STREET
FOSTER CITY, CALIFORNIA

PROJECT NAME
UTILITY PLAN
BOWDITCH MIDDLE SCHOOL

DATE	7-1-2021
SCALE	1"=50'
DRAWN	DRAFTER
JOB	21169
DRAWING	21169-C3D
SHEET	5
OF	5 SHEETS

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.
0 25 50 100 200

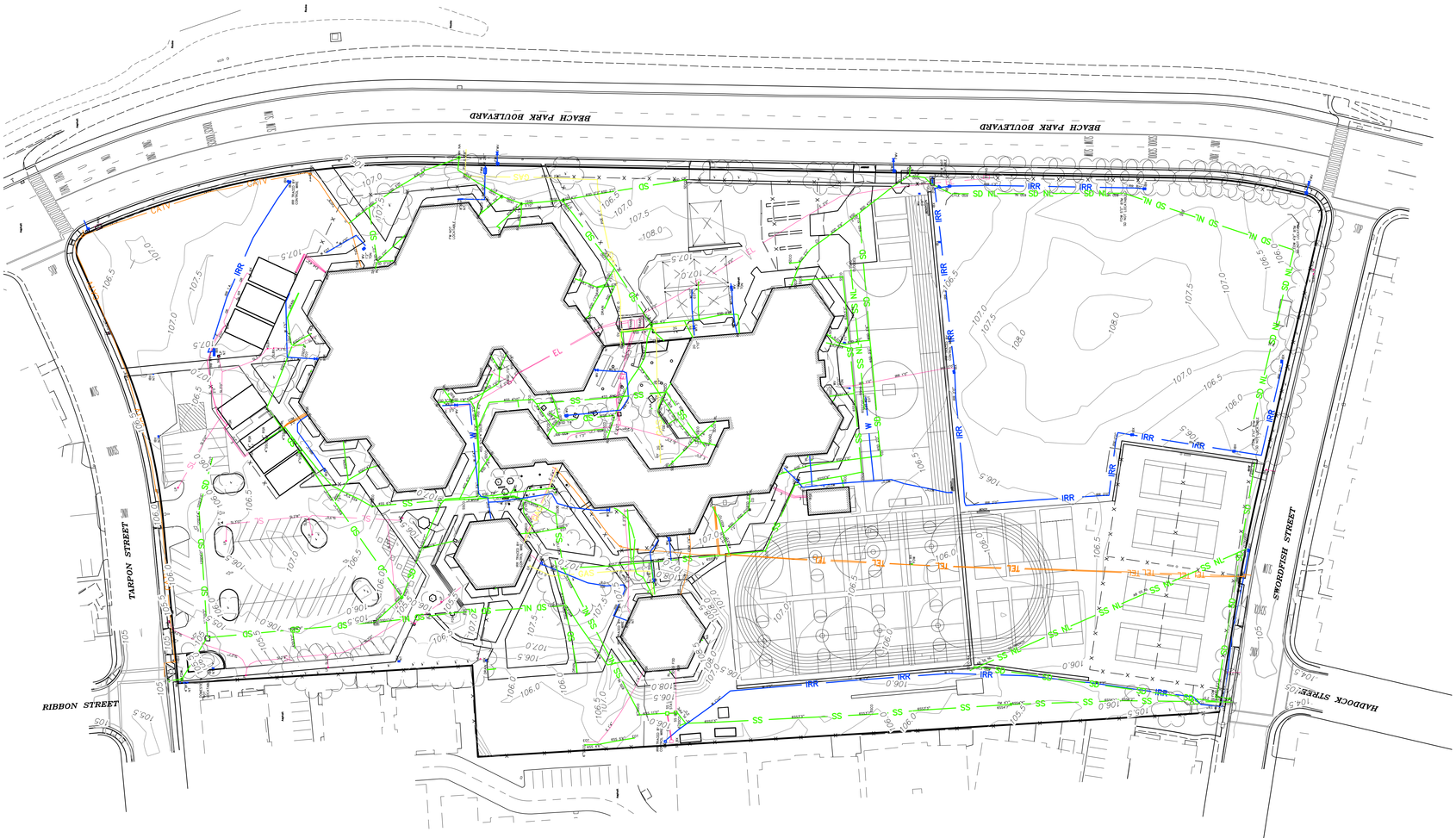
LEGEND:
Sanitary Sewer
Storm Drain
Gas
Underdrown
Electric
Telephone
DIAMETER (INCHES)
UTILITY NAME
DEPTH
6SS410"

ABBREVIATIONS

AB	ABANDONED
BW	BACK WALL
CB	CATCH BASIN
COM	COMMUNICATION
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CP	TEST CORROSION PROTECTION
BOX	
E	ELECTRIC
EOP	END OF PIPE
EOT	END OF TRACE
FDC	FIRE DEPARTMENT CONNECTION
FO	FIBER OPTIC
FOD	FULL OF DIRT/DEBRIS
FOW	FULL OF WATER
FW	FIRE WATER
G	GAS
GA	GAS ANODE
GBX	GAS BOX
GM	GAS METER
GND	GROUNDWIRE
GPR	GROUND PENETRATING RADAR
GV	GAS VALVE
HV	HIGH VOLTAGE
HYD	FIRE HYDRANT
IBX	IRRIGATION BOX
IRC	IRRIGATION CONTROL
ICV	IRRIGATION CONTROL VALVE
IRR	IRRIGATION
JP	JOINT POLE
LV	LOW VOLTAGE
MH	MANHOLE
NL	NOT LOCATED
N/T	NO TRACE
OHW	OVERHEAD
OBST	OBSTRUCTED
PED	PEDESTAL
PIV	POST INDICATOR VALVE
PS	POWER SIGNAL
RF	RADIO FREQUENCY
RCP	REINFORCED CONCRETE PIPE
RSR	" RISER
SD	STORM DRAIN
SIG	SIGNAL
SL	STREET LIGHT
SS	SANITARY SEWER
T	TELEPHONE
TOP	TOP OF PIPE
TON	TOP OF VALVE NUT
TS	TRAFFIC SIGNAL
TRP	TRAFFIC SIGNAL POLE
TRBX	TRAFFIC SIGNAL BOX
TW	TRACER WIRE
UN	UNKNOWN UTILITY
WBX	WATER BOX
WM	WATER METER
WV	WATER VALVE

NOTES:
UNDERGROUND UTILITY DATA SHOWN HEREON WAS PROVIDED BY SUBTRONIC CORPORATION OF MARTINEZ, CALIFORNIA.

Not all utilities may be shown, particularly PVC water with no tracer wire.
Some laterals were not accessible & were therefore not located.
Depths shown are to center of conductive utility & are generally +/-10% of actual depth, when not distorted by adjacent conductors. Accuracy of electronic depth determination when adjacent utilities are located within 5 ft.
Critical depths require verification by excavation.
Sanitary & storm depths are measured from rim to invert level.



DSA **140**

APPLICATION FOR SUBMITTAL OF POST-APPROVAL DOCUMENT

This application is for submittal of documents, after the initial approval of the project (post-approval documents), that require Division of the State Architect (DSA) review and approval.This form shall be completed by the Design Professional in General Responsible Charge of the project, in accordance with California Code of Regulations, Title 24, Part 1, Sections 4-317, 4-323 and 4-338 and in compliance with DSA IR A-6: Construction Change Document Submittal and Approval Process.

DSA documents referenced within this form are available on the DSA Forms or DSA Publications webpages.

1. SUBMITTAL TYPE: (Is this a resubmittal? Yes ☑ No ☐)

Deferred Submittal ☐	Addendum Number:	Revision Number: 1	CCD Number:	Category A ☐ or B ☐

2. PROJECT INFORMATION:

School District/Owner: San Mateo - Foster City School District	DSA File Number: 41 26
Project Name/School: Bowditch Middle School - Academic Quad	DSA Application Number 01 120473

3. APPLICANT INFORMATION:

Date Submitted: 11/10/23	Attached Pages? No ☐ Yes ☑ Number of pages? 06		
Firm Name: HED	Contact Name: Chris Ramm		
Work Email: cramm@hed.design	Work Phone: (916) 287-2126		
Firm Address: 417 Montgomery Street, Suite 400	City: San Francisco	State: CA	Zip Code: 94104

4. REASON FOR SUBMITTAL: (Check applicable boxes)

☑ For revision or addendum prior to construction.

☐ For a project currently under construction.

☐ For a project that has a form *DSA 301-N: Notification of Requirement for Certification*, *DSA 301-P: Posted Notification of Requirement for Certification* or a 90-Day Letter issued.

☐ To obtain DSA approval of an existing uncertified building or buildings.

☐ For Category B CCD this is: ☐ a voluntary submittal, ☐ a DSA required submittal (attach DSA notice requiring submission).

5. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE:

Name of the Design Professional In General Responsible Charge: Michael J. Myers

Professional License Number: C-36095 Discipline: Architect

Design Professional in General Responsible Charge Statement: The attached post-approval documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications. They are acceptable for incorporation into the construction of the project.

Signature: _____

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE

6. CONFIRMATION, DESCRIPTION AND LISTING OF DOCUMENTS:

For addenda, revisions, or CCDs: CHECK THIS BOX ☑ to confirm that *all* post-approval documents have been stamped and signed by the Responsible Design Professional listed on form *DSA 1: Application for Approval of Plans and Specifications* for this project. (For *Deferred Submittals*, refer to *IR A-18: Use of Construction Documents Prepared by Other Professionals,* and *IR A-19: Design Professional's Signature and Seal (Stamp) on Construction Documents*, when applicable, for signature and seal requirements.)

Provide a brief description of construction scope for this post-approval document (attach additional sheets if needed):

Bldg. P Drama and Bldg. Q Science are currently wrapping up construction - DSA #01-119667. Landscaping was not included in that set because of budget constraints. This revision adds area around bldg. P & Q to the landscaping and irrigation into this set; the Academic Quad.
Please note: Revision was revised in V2 such that sheet numbers and names match DSA approved set - no changes needed to sheet index on G-001

List of DSA-approved drawings affected by this post-approval document:

L0.2, L2.1, L2.2, L2.6, L3.1, L3.2.

DSA USE ONLY

SSS LL Date 11-14-2023 ☒ Approved ☐ Disapproved ☐ Not Required

Comments: _____

FLS _____ Date _____ ☐ Approved ☐ Disapproved ☐ Not Required

Comments: _____

ACS _____ Date _____ ☐ Approved ☐ Disapproved ☐ Not Required

Comments: _____

Returned	DSA STAMP
Date:	APPROVED DIV. OF THE STATE ARCHITECT APP: 01-120473 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 11/14/2023
By:	

PLANTING NOTES

GENERAL

1. ALL WORK SHALL BE PERFORMED BY PERSONS FAMILIAR WITH PLANTING WORK AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN.

2. ALL QUANTITIES AND PLANT COUNTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. IN CASE OF DISCREPANCIES, THE PLAN SHALL GOVERN.

3. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS, AND DELETIONS IN THE PLANTING SCHEME AS THEY FEEL NECESSARY WHILE WORK IS IN PROGRESS, UPON APPROVAL BY THE OWNER. SUCH CHANGES ARE TO BE ACCOMPANIED BY EQUITABLE ADJUSTMENTS IN THE CONTRACT PRICE, WHEN NECESSARY.

4. PLANT MATERIAL LOCATIONS SHOWN ARE DIAGRAMMATIC AND MAY BE SUBJECT TO CHANGE IN THE FIELD BY THE LANDSCAPE ARCHITECT. PLANT LOCATIONS ARE TO BE ADJUSTED IN THE FIELD AS NECESSARY TO SCREEN UTILITIES, BUT SHALL NOT BLOCK WINDOWS, BLOCK SIGNS NOR IMPEDE ACCESS.

5. THE DESIGN INTENT OF THE PLANTING PLAN IS TO ESTABLISH AN ATTRACTIVE MATURE LANDSCAPE APPEARANCE. FUTURE PLANT GROWTH WILL NECESSITATE TRIMMING, SHAPING, AND IN SOME CASE REMOVAL OF TREES AND SHRUBS AS AN ON-GOING MAINTENANCE PROCEDURE.

6. ALL PLANTING AREA MUST BE IRRIGATED WITH AUTOMATIC IRRIGATION SYSTEM. IRRIGATION SYSTEM SHALL BE FULLY AUTOMATED AND OPERATIONAL WITH FULL COVERAGE PRIOR TO PLANTING.

7. CONTRACTOR TO REVIEW ALL EXISTING, PROPOSED, & AS BUILT UTILITY PLANS PRIOR TO CONSTRUCTION. CONTRACTOR TO TAKE PRECAUTIONS IN EXCAVATION OF ALL TREE PLANTING PITS. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS FOUND DURING CONSTRUCTION.

8. CONTRACTOR MUST REVIEW ALL PLANS PRIOR TO THE BEGINNING OF CONSTRUCTION AND MAINTAIN THE FOLLOWING CLEARANCES FOR ALL TREE PLANTINGS. CONTRACTOR TO TAKE PRECAUTION IN ALL EXCAVATION ACTIVITY. NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION.
   FIRE HYDRANTS AND PIVS: 3' MINIMUM
   LIGHT POLES: 10' MINIMUM
   UTILITIES: 3' MINIMUM
   BUILDING ROOF EDGE: 5' MINIMUM

9. CONTRACTOR TO PROVIDE AND ARRANGE FOR PLANT MATERIAL THRU CONTRACT GROW, PLANT BROKERS, OR DIRECT PURCHASE AS REQUIRED FOR THE FULL IMPLEMENTATION OF THE PROJECTS PLANTING PLAN. CONTRACTOR MUST SUBMIT WITHIN 30 DAYS AFTER AWARD OF A BID A DETAILED NURSERY LIST OF SECURED PLANT MATERIAL, CONTRACT GROW PLANT MATERIAL, AND ANY SUBSTITUTION REQUESTS. CONTRACTOR SHALL ARRANGE AND SECURE ALL PLANT MATERIAL WITHIN 30 DAYS OF BID. UPON DELIVERY, PLANT MATERIAL THAT DOES NOT MEET NURSERY STANDARDS, IS ROOTBOUND, OF POOR QUALITY & HEALTH, SUBSTANDARD SIZE, AND / OR IS NOT APPROVED BY THE LANDSCAPE ARCHITECT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. MATERIAL WHICH IS NOT SECURED AND IS UNAVAILABLE IN THE SIZE SPECIFIED SHALL BE UP-SIZED, IF AVAILABLE. ALL REPLACEMENT MATERIAL, SUBSTITUTIONS OR UP-SIZED PLANT MATERIAL MUST BE PROVIDED AS REQUIRED FOR THE FULL IMPLEMENTATION OF THE PLANTING PLAN AT NO ADDITIONAL COST TO THE CONTRACT AND OWNER.

10. PROCUREMENT OF PLANT MATERIAL SHALL NOT BE LIMITED TO NORTHERN CALIFORNIA. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRUCKING, INSPECTIONS, AND INCIDENTALS FOR PROVIDING PLANT MATERIAL FROM SOURCES OUT OF STATE AS REQUIRED BY THE PROJECT PLANTING PLAN.

EXISTING PLANT MATERIAL

1. ALL EXISTING PLANT MATERIAL, TREES, OR LAWN TO REMAIN MUST BE PROTECTED AND MAINTAINED IN PLACE BY THE CONTRACTOR.

2. ANY DAMAGED MATERIAL MUST BE FULLY REPLACED TO MATCH EXISTING BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT AND OWNER.

3. CONTRACTOR MUST MAINTAIN ANY EXISTING IRRIGATION SYSTEMS OR PROVIDE TEMPORARY IRRIGATION SYSTEMS AS REQUIRED TO ALL EXISTING PLANTING AREAS TO REMAIN.

SOILS

1. THE CONTRACTOR MAY PROTECT AND STOCKPILE EXISTING SITE SOILS WHICH MAY BE REUSED FOR PLANTING PURPOSES. EXISTING SOILS SHALL BE TESTED PRIOR TO STOCKPILE FOR SOILS SUITABILITY PER THE REQUIREMENTS BELOW.

3. ALL ORGANIC COMPOST SHALL HAVE AN AGRICULTURAL SUITABILITIES TEST FOR COMPATIBILITY TO EXISTING SITE SOILS. TEST RESULTS SHALL BE DATED WITHIN THE LAST 3 MONTHS OF THE SUBMITTAL.

4. ALL EXISTING SITE SOILS SHALL HAVE AN AGRICULTURAL SUITABILITIES TEST BY AN APPROVED SOILS TESTING LAB (WAYPOINT ANALYTICAL OR APPROVED EQUAL) AND ANALYSIS FOR RECOMMENDATIONS ON ORGANIC COMPOST, AMENDMENTS, GRO POWER FERTILIZER AND ANY INCIDENTALS. RECOMMENDATIONS CONTAINED IN THE SOILS ANALYSIS RESULTS ARE TO BE IMPLEMENTED BEFORE PLANTING OCCURS. CONTRACTOR SHALL PROVIDE UP TO 4 COMBINED TESTS AT LOCATIONS SELECTED BY THE LANDSCAPE ARCHITECT. SOIL SAMPLES TO BE TAKEN AND COMBINED FROM A DEPTH OF 6" AND 24". PROVIDE ADDITIONAL TESTING (ONE 6" AND ONE 24" DEPTH TEST PER 25,000 SF FOR AREAS WHICH WERE LIME TREATED). THE ORGANIC COMPOST TEST RESULTS LISTED ABOVE SHALL BE SUBMITTED TO THE SOILS LAB FOR ACCURATE RECOMMENDATIONS OF THE SOIL AMENDMENT REQUIREMENTS. TEST RESULTS SHALL BE TAKEN AFTER ALL GRADING OPERATIONS ARE COMPLETE.

5. ALL LIME TREATED SOILS IN AREAS TO RECEIVE PLANTING SHALL BE FULLY REMOVED AND REPLACED WITH CLEAN APPROVED IMPORT TOP SOIL AT NO COST TO THE OWNER. AN ADDITIONAL 8 SOILS TESTS MAY BE REQUESTED BY THE LANDSCAPE ARCHITECT. ALL TESTING SHALL BE PAID FOR BY THE CONTRACTOR.

6. ALL SOILS IMPORTED ONTO THE SITE FOR ANY PURPOSE SUCH AS GRADING, NON EXPANSIVE FILL, FILL, OR FOR ANY GENERAL PURPOSE MUST BE TESTED FOR PLANT SUITABILITY PRIOR TO PLACEMENT. ALL IMPORT SOILS SHALL BE NON-DETRIMENTAL TO PLANT MATERIAL AND SOILS ANALYSIS SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. PROVIDE 1 TEST PER 500 CY OF MATERIAL.

7. ALL IMPORT SOILS SHALL BE FREE OF DELETERIOUS MATERIALS, AGGREGATES, AND ROCK. IMPORT SOIL SHALL BE LOAM/ CLAY LOAM WITH A PH BETWEEN 6 AND 7.5. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

8. FOR BID PURPOSES AMEND ALL SOIL WITH 6 YARDS OMRI COMPOST, 50LBS GYPSUM, 20LBS SOIL SULFUR AND 160LBS OF GRO-POWER PLUS 5-3-1 W/ M PER 1000SF. CONTRACTOR TO SUBMIT ALL DELIVERY TICKETS FOR COMPOST AND FERTILIZERS FOR VERIFICATION.

9. SOIL IS TO BE AMENDED, AT THE RATE INDICATED BY THE SOIL ANALYSIS, TO BRING THE SOIL ORGANIC MATTER CONTENT TO A MINIMUM OF 3.5% BY DRY WEIGHT, AND A MINIMUM OF 2" OF QUALITY RECYCLED COMPOST, ON ALL PLANTING AREAS.

10. ALL PLANTERS IN AREAS WHICH HAVE BEEN COMPACTED, SUCH AS CONSTRUCTION STAGING AREAS AND IN PARKING LOTS, SHALL BE CROSS RIPPED TO THE FOLLOWING DEPTHS: PLANTERS LESS THAN THREE (3) FEET WIDE SHALL HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF TWENTY-FOUR (24) INCHES BELOW SUBGRADE. PLANTERS THREE TO TEN (3-10) FEET WIDE MUST HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF 18" BELOW SUBGRADE, PLANTERS MORE THAN 10' WIDE SHALL HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF 12" BELOW SUBGRADE. AREAS SHALL BE PROTECTED AFTER DECOMPACTION.

11. CONTRACTOR SHALL PERFORM A PERCOLATION TEST AT THE BEGINNING OF CONSTRUCTION AT 1 LOCATION PER ACRE (MAX OF 4) TO DETERMINE THE DRAINAGE CAPACITY OF THE EXISTING SITE SOIL FOR TREE HEALTH. NOTIFY THE LANDSCAPE ARCHITECT IF DRAINAGE IS LESS THAN 2" PER HOUR.

PLANTING NOTES (CONT)

TREES

1. ALL TREES SHALL BE STANDARDS UNLESS SPECIFICALLY NOTED.

2. ALL TREES ARE TO BE STAKED AS SHOWN ON THE TREE STAKING/GUYING DIAGRAMS. BRANCHING HEIGHT OF TREES SHALL BE A 6'-0" MINIMUM ABOVE FINISH GRADE. ALL TREES IN A FORMAL GROUP PLANTING MUST BE MATCHING IN SIZE AND SHAPE. ALL STREET TREES TO BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE OWNER. LANDSCAPE ARCHITECT SHALL BE CONSULTED REGARDING ORIENTATION OF TREES PRIOR TO PLANTING AND/OR BACKFILLING.

3. PLANT TREES 3'-0" MINIMUM FROM FACE OF CURB AT PARKING, AND FROM EDGES OF PAVING. ALL TREES WITHIN 6' OF PAVING AREAS AND BUILDINGS MUST HAVE ROOT BARRIERS INSTALLED. SEE ROOT BARRIER DETAIL. DEEP ROOT BARRIER MODEL NO. UB.24.2. (415) 344-1464. INSTALL PERMANUFACTURER'S SPECIFICATIONS. WHERE WATER BARRIERS AND ROOT BARRIERS ARE REQUIRED, USE CENTURY PRODUCTS DUAL PURPOSE WATER/ ROOT BARRIER CR-PE24-20, (714)632-7083, S.C.D. FOR LOCATIONS OF WATER BARRIER.

4. PROVIDE 4" BERM AROUND TREE FOR WATER BASIN. SEE TREE STAKING DETAIL. BERM TO BE REMOVED IN LAWN AREA AFTER INITIAL MAINTENANCE PERIOD. MULCH TREE WELL WITH 3" LAYER OF RECYCLED CHIPPED MULCH. KEEP MULCH AWAY FROM TREE TRUNK. HOLD LAWN AND HYDROSEED 2' CLEAR FROM TRUNKS, TYP.

5. TREES MUST HAVE AN UNCUT LEADER THAT HAS A UNIFORM TAPER FROM BASE TO TIP. TREES MUST MEET AT LEAST NORMAL CALIPER AND HEIGHT FOR CONTAINER SIZE. OVERGROWN OR ROOT BOUND TREES ARE NOT ACCEPTABLE.

6. FOR ALL TREES IN STORMWATER INFILTRATION ZONES HOLD FG OF ROOTBALL 4" ABOVE FG OF FLOWLINE. ADJUST ADJACENT GRADE OF SOIL TO BLEND UNIFORMLY AROUND ROOTBALL AND ALLOW UNIMPEDED FLOW OF WATER.

SHRUBS AND GROUNDCOVERS

1. GROUNDCOVER MUST BE PLANTED AS SHOWN ON THE PLAN, INCLUDING UNDER SHRUBS AND IN TREE WATERING BASINS.

2. SHRUBS AND PERENNIALS MUST HAVE A MINIMUM SETBACK OF 12 INCHES FROM THE ADJACENT SIDEWALK AND EDGES OF PARKING LOT CURBS. NOTIFY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION IF PLANT MATERIAL MAY PROTRUDE INTO THE PATH OF TRAVEL.

ACCESSORIES

1. ALL PLANTING NOT BOUNDED BY CONCRETE OR A HARDSCAPE EDGE SHALL BE COMPLETELY SURROUNDED BY HEADERS. ALL ASPHALT AND DECOMPOSED GRANITE AREAS TO BE COMPLETELY SURROUNDED BY HEADERS OR ADJACENT CONCRETE WORK.

2. ALL PLANTING AREAS MUST BE TOP-DRESSED WITH 3" LAYER OF RECYCLED CHIPPED MULCH. COLOR: DARK BROWN. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ORDERING.

3. ALL MULCH WITHIN STORMWATER PLANTING AREAS MUST BE 3" OF WASHED PEA GRAVEL. SUBMIT SAMPLE FOR REVIEW AND APPROVAL.

4. ALL RAINWATER LEADERS DISCHARGING INTO LANDSCAPE AREAS MUST HAVE SPLASH BLOCKS. MODEL: CDI 16X24". COLOR: TO MATCH PAVING. (800) 279-2278. UNLESS OTHERWISE NOTED ON PLAN.

5. ALL SLOPES GREATER THAN 2.5:1 MUST BE COVERED WITH EROSION CONTROL NETTING PER THE MANUFACTURER'S SPECIFICATIONS. OVERLAP ALL EDGES A MINIMUM OF 12" AND SECURE AS REQUIRED WITH METAL STAPLES. EROSION CONTROL NETTING TO BE WESTERN EXCELSIOR, EXCEL CS-3 OR APPROVED EQUAL. AVAILABLE FROM REED & GRAHAM 888-381-0800.

6. THE LANDSCAPE CONTRACTOR SHALL AS A PART OF THIS BID PROVIDE FOR A PLANTING ALLOWANCE FOR THE AMOUNT OF $3,000.00 (THREE THOUSAND DOLLARS), TO BE USED FOR SUPPLYING AND INSTALLING ADDITIONAL PLANT MATERIAL AS DIRECTED BY THE LANDSCAPE ARCHITECT AND APPROVED BY THE OWNER IN WRITING. THE UNUSED PORTION OF THE ALLOWANCE SHALL BE RETURNED TO THE OWNER AT THE BEGINNING OF THE MAINTENANCE PERIOD.

7. SEE SPECIFICATIONS FOR ALL FERTILIZER REQUIREMENTS

SUBMITTALS

1. CONTRACTOR MUST SUBMIT ALL TESTS, PRODUCTS, ACCESSORIES, INCIDENTALS, CUT SHEETS OF ALL ITEMS SPECIFIED FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

2. ALL PLANT MATERIAL MUST BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY. CONTRACTOR SHALL SUBMIT PHOTOS OF ALL SHRUBS, GROUND COVERS, VINES, AND TREES FOR PRELIMINARY REVIEW AND APPROVAL.

3. ALL SUBMITTALS AND PLANT MATERIAL NOT REVIEWED AND APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT MAY BE SUBJECT TO FULL REMOVAL AND REPLACEMENT WITH APPROVED SOILS, FERTILIZERS, AND PLANT MATERIAL AT NO ADDITIONAL COST TO THE CONTRACT OR OWNER.

4. SUBMITTALS AND SITE MOCKUPS OF ALL WORK SHALL BE REQUIRED PRIOR TO FINAL PLACEMENT INCLUDING BUT NOT LIMITED TO ALL WALLS, PAVEMENTS, COLORS, FINISHES, METAL WORK, FENCING, AND PAINTING FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT. SEE SPECIFICATIONS.

PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE		QTY
APE	ACER PALMATUM DISSECTUM 'EMERALD LACE'	EMERALD LACE JAPANESE MAPLE	24"BOX	M		11
APV	ACER PALMATUM DISSECTUM 'VIRIDIS'	VIRIDIS JAPANESE MAPLE	24"BOX	M		6
ARA	ACER RUBRUM 'ARMSTRONG'	ARMSTRONG RED MAPLE	24"BOX	M		15
CEO	CERCIS OCCIDENTALIS MULTI-TRUNK	WESTERN REDBUD	15 GAL	VL		22
LAM	LAGERSTROEMIA INDICA 'MUSKOGEE'	MUSKOGEE CREPE MYRTLE	24"BOX	L		16
LIP	LAGERSTROEMIA INDICA 'PURPLE MAGIC'	PURPLE TOWER CRAPE MYRTLE	15 GAL	L		4
LNS	LAURUS 'SARATOGA'	SARATOGA BAY	15 GAL	L		6
POM	PODOCARPUS MACROPHYLLUS	YEW PINE	24"BOX	L		30
QUL	QUERCUS LOBATA	VALLEY OAK	15 GAL	L		7
QUS	QUERCUS SUBER	CORK OAK	24"BOX	L		8
QUV	QUERCUS VIRGINIANA 'SDLN'	CATHEDRAL™ LIVE OAK	24"BOX	M		15
UPD	ULMUS PARVIFOLIA 'DRAKE'	DRAKE ELM	24"BOX	L		7
UFR	ULMUS X 'FRONTIER'	FRONTIER ELM	24"BOX	L		27
SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	SPACING	QTY
BP	BACCHARIS PILULARIS 'PIGEON POINT'	PIGEON POINT COYOTE BRUSH	1 GAL	L	72" o.c.	208
CL	CALLISTEMON VIMINALIS 'LITTLE JOHN'	LITTLE JOHN WEEPING BOTTLEBRUSH	5 GAL	L	36" o.c.	102
CE	CHONDROPETALUM ELEPHANTINUM	LARGE CAPE RUSH	5 GAL	L	48" o.c.	112
CH	CHONDROPETALUM TECTORUM 'EL CAMPO'	CAPE RUSH	5 GAL	L	48" o.c.	169
DB	DIETES BICOLOR	FORTNIGHT LILY	1 GAL	L	36" o.c.	346
DV	DIETES GRANDIFLORA 'VARIEGATA'	VARIEGATED AFRICAN IRIS	5 GAL	L	36" o.c.	156
FM	FESTUCA MAIREI	ATLAS FESCUE	1 GAL	L	36" o.c.	560
HS	HESPERALOE PARVIFLORA 'SURPRISE BOUQUET'	SURPRISE BOUQUET RED YUCCA	5 GAL	L	48" o.c.	222
HY	HESPERALOE PARVIFLORA 'YELLOW'	YELLOW YUCCA	5 GAL	L	36" o.c.	256
HB	HESPERALOE PARVIFLORA 'PERPA'	BRAKELIGHTS® RED YUCCA	5 GAL	L	30" o.c.	209
KG	KNIPHOFIA X 'POCO ORANGE'	POCO ORANGE HOT POKER	1 GAL	L	30" o.c.	234
LC	LEYMUS CONDENSATUS 'CANYON PRINCE'	CANYON PRINCE GIANT WILD RYE	1 GAL	L	42" o.c.	332
PV	PITTOSPORUM TOBIRA 'VARIEGATA'	VARIEGATED MOCK ORANGE	5 GAL	L	60" o.c.	185
RE	RUSSELIA EQUISETIFORMIS	FIRECRACKER PLANT	5 GAL	M	48" o.c.	43
SB	SALVIA LEUCANTHA 'SANTA BARBARA'	SANTA BARBARA MEXICAN BUSH SAGE	1 GAL	L	48" o.c.	66
SH	SALVIA MICROPHYLLA 'HOT LIPS'	BABY SAGE	5 GAL	L	48" o.c.	34
SA	SALVIA X 'BEE'S BLISS'	BEE'S BLISS SAGE	1 GAL	L	72" o.c.	11

1

WATER USE RATING LEGEND:
WUCOLS IV CATEGORIES OF WATER NEEDS FROM: UNIVERSITY OF CALIF COOPERATIVE EXTENSION, CALIF DEPARTMENT OF WATER RESOURCES, U.S. BUREAU OF RECLAMATION
H = HIGH
M = MODERATE
L = LOW
VL = VERY LOW

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

SIGNATURE   DATE 09.29.2022

PLANTING LEGEND

XXX / ## — TREE NAME / QUANTITY — SEE PLANT LIST FOR ADDT'L. INFO. — 1-5 / L4.1

XX / ## — SHRUB NAME / QUANTITY — SEE PLANT LIST FOR ADDT'L INFO. — 6,7 / L4.1

1

SHADE CALCULATIONS

	TOTAL AREA (SF)	SHADE COVERAGE REQUIRED (SF)	SHADE COVERAGE PROVIDED (SF)
HARDSCAPE	49,740	9,948 (20% TOTAL AREA)	9,762 (20.3% TOTAL AREA)
LANDSCAPE	59,780	11,956 (20% TOTAL AREA)	24,910 (42% TOTAL AREA)

SHADE COVERAGE CALCULATIONS PER DSA GL-4, CALGREEN §5.106.12.1

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 01-120473 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 11/14/2023

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San Mateo-Foster City School District

District Office
1170 Chess Drive
Foster City, CA 94404

SMFCSD Bowditch Middle School - Academic Quad Buildings

1450 Tarpon St
Foster City, CA 94404

Date	Issued For
07/28/2022	Design Development
09/30/2022	DSA Submittal
06/05/2023	DSA Backcheck
08/31/2023	DSA Backcheck
11/01/2023	REVISION A

REGISTERED LANDSCAPE ARCHITECT — CASEY CASE · No. 6032 — Signature — 6/30/2024 Renewal Date — 11/1/2023 Date — L.A. — STATE OF CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING · URBAN DESIGN
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San Francisco, California
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(415) 981-2345

WWW.HED.DESIGN

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2020-06953-000

PLANTING NOTES AND LEGEND

L0.2

IRRIGATION DEMAND: 50 GPM AT 60 PSI STATIC PRESSURE AT BACKFLOW. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO STARTING WORK. IF DIFFERENT THAN STATED CONTACT SCHOOL DISTRICT PROJECT ENGINEER FOR DIRECTION. PROGRAM CONTROLLER TO OPERATE MULTIPLE ZONES SIMULTANEOUSLY UP TO 50 GPM TO OPERATE WITHIN REQUIRED WATERING WINDOW. (1)

FLOW SENSOR & MASTER VALVE

INSTALL NEW SUB-METER FOR IRRIGATION

IRRIGATION POINT OF CONNECTION TO EXISTING 3" BACKFLOW PREVENTOR

EXISTING PVC MAINLINE AND LOW VOLTAGE WIRES IN CONFLICT WITH NEW CONSTRUCTION TO BE REMOVED DURING DEMO PHASE.

IRRIGATION CONTROLLER "C". WALL MOUNT INSIDE IDF ROOM ACCORDING TO DETAIL AND AS DIRECTED BY ARCHITECT. CONNECT TO 120 VOLT A.C. ELECTRICAL SERVICE INSTALLED AT THIS LOCATION IN ACCORDANCE WITH LOCAL CODES. COORDINATE LOCATION AND INSTALLATION OF ELECTRICAL SERVICE PRIOR TO CONSTRUCTION.

NOTE: FIELD ADJUST EXISTING IRRIGATION IMPACTED BY NEW CONSTRUCTION AND LIMIT OR WORK BOUNDARY AS REQUIRED AS PART OF THIS CONTRACT. CONTRACTOR SHALL FIELD VERIFY EXTEND OF EXISTING IRRIGATION MODIFICATIONS OR ADJUSTMENTS REQUIRED AND ENSURE COMPLETE COVERAGE OF EXISTING LANDSCAPE.

NOTES:

1. EXISTING IRRIGATION SHOWN IS FOR REFERENCE ONLY TAKEN FROM FIELD OBSERVATIONS, NO IRRIGATION AS-BUILD PLANS ARE AVAILABLE FOR THE SITE. THE EXACT ROUTING OF MAIN LINE, WIRES. REMOTE CONTROL VALVES AND AREAS VALVES SHOULD BE INVESTIGATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NEED TO FIELD VERIFY THE LOCATION OF ALL EXISTING IRRIGATION EQUIPMENT AND IN WORKING CONDITION BEFORE ANY WORK IS STARTED AND NOTIFY THE LANDSCAPE ARCHITECT IF THERE IS ANY PROBLEMS.
2. CONTRACTOR IS RESPONSIBLE TO KEEP ALL EXISTING PLANTING AREAS (TO REMAIN) WITH WATER AT ALL TIMES DURING CONSTRUCTION. THIS SHALL INCLUDE PROVIDING TEMPORARY WATER SOURCE AND TEMPORARY IRRIGATION CONTROLLER WITH POWER IF NEEDED TO OPERATE THE SYSTEM DURING CONSTRUCTION.

REPLACE EXISTING MAINLINE AND WIRE DAMAGED BY CONSTRUCTION. INSTALL NEW 2" PVC MAINLINE AND NEW 2-WIRE CABLE TO EXISTING CONTROL VALVES. REPAIR OR REPLACE PLANTING AND IRRIGATION DAMAGED BY NEW TRENCHING, TYPICAL. (1)

APPROXIMATE LOCATION OF EXISTING IRRIGATION CONTROL VALVES TO REMAIN. ADD DECODER AND GROUNDING AS REQUIRED FOR OPERATION WITH 2-WIRE CONTROLLER (1)

APPROXIMATE LOCATION OF EXISTING IRRIGATION CONTROL VALVES TO REMAIN. ADD DECODER AND GROUNDING AS REQUIRED FOR OPERATION WITH 2-WIRE CONTROLLER. FIELD VERIFY. (1)

IRRIGATION CONTROLLER "B". WALL MOUNT INSIDE UTILITY ROOM ACCORDING TO DETAIL AND AS DIRECTED BY ARCHITECT. CONNECT TO 120 VOLT A.C. ELECTRICAL SERVICE INSTALLED AT THIS LOCATION IN ACCORDANCE WITH LOCAL CODES. COORDINATE LOCATION AND INSTALLATION OF ELECTRICAL SERVICE PRIOR TO CONSTRUCTION.

EXISTING SLEEVES WITH ENDS TAPED AND TRACER WIRE FOR LOCATING

EXISTING SITE PULL BOX WITH PATHWAY TO ELECTRICAL ROOM

IRRIGATION POINT OF CONNECTION TO EXISTING PVC MAINLINE LOCATED AT EXISTING IRRIGATION CONTROL VALVES TO REMAIN IN SERVICE. IRRIGATION DEMAND: 15 GPM AT 60 PSI STATIC PRESSURE AT POINT OF CONNECTION

EXISTING PVC MAINLINE AND LOW VOLTAGE WIRES IN CONFLICT WITH NEW CONSTRUCTION TO BE ABANDONED

BARK MULCH, SEE SPECS.

SCALE 0 10' 20' 40'

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 01-120473 INC:
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REGISTERED LANDSCAPE ARCHITECT · STATE OF CALIFORNIA · 6/30/2024 Renewal Date 11/1/2023

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2020-06953-000

IRRIGATION PLAN

L2.1

FILENAME: \\RMASRV\COMPANYDATA\2022\22-243 BOWDITCH MS - FOSTER CITY\DWG\100% CD 11-9-23_DG-IRR-BOWDITCH.DWG

IRRIGATION NOTES

1. THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS MAY BE SHOWN WITHIN PAVED AREAS FOR GRAPHIC CLARITY ONLY AND ARE TO BE INSTALLED WITHIN PLANTING AREAS. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, CONDUIT, AND OTHER ITEMS WHICH MAY BE REQUIRED. INVESTIGATE THE STRUCTURAL AND FINISHED CONDITION AFFECTING THE CONTRACT WORK INCLUDING OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES. IN THE EVENT OF FIELD DISCREPANCY WITH CONTRACT DOCUMENTS, PLAN THE INSTALLATION WORK ACCORDINGLY BY NOTIFICATION AND APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND ACCORDING TO THE CONTRACT SPECIFICATIONS. NOTIFY AND COORDINATE IRRIGATION CONTRACT WORK WITH APPLICABLE CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT OR SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING AND STRUCTURES BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR REQUIRED REVISIONS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRIC CODE; THE UNIFORM PLUMBING CODE, PUBLISHED BY THE WESTERN PLUMBING OFFICIALS ASSOCIATION; AND OTHER STATE OR LOCAL LAWS OR REGULATIONS. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR REGULATIONS. THE CONTRACTOR SHALL FURNISH WITHOUT ANY EXTRA CHARGE, ANY ADDITIONAL MATERIAL AND LABOR WHEN REQUIRED BY THE COMPLIANCE WITH THESE CODES AND REGULATIONS.
3. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LAYOUT AND INSTALLATION OF THE PLANT MATERIALS TO INSURE THAT THERE WILL BE COMPLETE AND UNIFORM IRRIGATION COVERAGE OF PLANTING IN ACCORDANCE WITH THESE DRAWINGS, AND CONTRACT DOCUMENTS. THE IRRIGATION LAYOUT SHALL BE CHECKED BY THE CONTRACTOR AND OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO CONSTRUCTION TO DETERMINE IF ANY CHANGES, DELETIONS, OR ADDITIONS ARE REQUIRED. IRRIGATION SYSTEM SHALL BE INSTALLED AND TESTED PRIOR TO INSTALLATION OF PLANT MATERIAL.
4. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH.
5. IT IS THE RESPONSIBILITY OF THE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLER(S) TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL WEATHER CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS, SLOPES, SUN, SHADE AND WIND EXPOSURE.
6. IT IS THE RESPONSIBILITY OF A LICENSED ELECTRICAL CONTRACTOR TO PROVIDE 120 VOLT A.C. (2.5 AMP DEMAND PER CONTROLLER) ELECTRICAL SERVICE TO THE CONTROLLER LOCATION(S). IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO COORDINATE THE ELECTRICAL SERVICE STUB-OUT TO THE CONTROLLER(S). PROVIDE PROPER GROUNDING PER CONTROLLER MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH LOCAL CODES.
7. INSTALL NEW BATTERIES IN THE IRRIGATION CONTROLLER(S) TO RETAIN PROGRAM IN MEMORY DURING TEMPORARY POWER FAILURES. USE QUANTITY, TYPE AND SIZE REQUIRED AS PER CONTROLLER MANUFACTURER'S INSTRUCTIONS.
8. SCHEDULE A MEETING WHICH INCLUDES REPRESENTATIVES OF THE IRRIGATION CONTROLLER MANUFACTURER, THE MAINTENANCE CONTRACTOR, THE OWNER AND THE IRRIGATION CONTRACTOR AT THE SITE FOR INSTRUCTION ON THE PROPER PROGRAMMING AND OPERATION OF THE IRRIGATION CONTROLLER.
9. INSTALL 3" DETECTABLE TAPE ABOVE ALL PRESSURIZED MAIN LINES AS DETAILED. USE CHRISTY MODEL #TA-DT-3-BIRR FOR POTABLE IRRIGATION SYSTEMS.
10. PROVIDE EACH IRRIGATION CONTROLLER WITH ITS OWN INDEPENDENT LOW VOLTAGE COMMON GROUND WIRE.
11. IRRIGATION CONTROL WIRES: SOLID COPPER WITH U.L. APPROVAL FOR DIRECT BURIAL IN GROUND. COMMON GROUND WIRE: SIZE #12-1 WIRE WITH A WHITE INSULATING JACKET. CONTROL WIRE SERVICING REMOTE CONTROL VALVES: SIZE #14-1 WIRE WITH INSULATING JACKET OF COLOR OTHER THAN WHITE. SPLICES SHALL BE MADE WITH 3M-DBY SEAL PACKS OR APPROVED EQUAL.
12. IRRIGATION CONTROL WIRES: SOLID COPPER WITH U.L. APPROVAL FOR DIRECT BURIAL IN GROUND. CONTROL WIRE SERVICING REMOTE CONTROL VALVES: SIZE #14-1 WIRE WITH A UNIQUE COLOR INSULATING JACKET FOR EACH CONTROLLER. COMMON GROUND WIRE: SIZE #12-1 WIRE WITH A WHITE I INSULATING JACKET AND A STRIPE OF COLOR WHICH MATCH'S THE CONTROL WIRE COLOR CHOICE FOR SPECIFIC CONTROLLER. SPARE WIRE: #14-1 WIRE WITH BLACK INSULATION JACKET. SPLICES SHALL BE MADE WITH 3M-DBR/Y-6 SEAL PACKS OR APPROVED EQUAL.
13. INSTALL TWO SPARE CONTROL WIRES OF A DIFFERENT COLOR ALONG THE ENTIRE MAIN LINE. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.
14. INSTALL TWO CONTROL WIRES ALONG THE ENTIRE WIRE ROUTING FOR EACH CONTROLLER. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.
15. SPLICING OF LOW VOLTAGE WIRES IS PERMITTED IN VALVE BOXES ONLY. LEAVE A 36" LONG, 1" DIAMETER COIL OF EXCESS WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN. TAPE WIRES TOGETHER EVERY TEN FEET. DO NOT TAPE WIRES TOGETHER WHERE CONTAINED WITHIN SLEEVING OR CONDUIT.
16. INSTALL BLACK PLASTIC VALVE BOXES WITH BOLT DOWN, NON HINGED COVER MARKED "IRRIGATION CONTROL VALVE". BOX BODY SHALL HAVE KNOCK OUTS. ACCEPTABLE VALVE BOX MANUFACTURER'S INCLUDE NDS, CARSON OR APPROVED EQUAL.
17. INSTALL REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, INSTALL EACH BOX AN EQUAL DISTANCE FROM THE WALK, CURB, BUILDING OR LANDSCAPE FEATURE AND PROVIDE 12" BETWEEN BOX TOPS. ALIGN THE SHORT SIDE OF RECTANGULAR VALVE BOXES PARALLEL TO WALK, CURB, BUILDING OR LANDSCAPE FEATURE.
18. INSTALL REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, HEADER BOARD, BUILDING, OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, INSTALL EACH BOX 12" FROM THE WALK, CURB, HEADER BOARD, BUILDING, OR LANDSCAPE FEATURE AND INSTALL EACH BOX 12" APART.
19. VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS (AVOID LAWN AREAS WHERE POSSIBLE).
20. THE CONTRACTOR SHALL LABEL CONTROL LINE WIRE AT EACH REMOTE CONTROL VALVE WITH A 2 1/4" X 2 3/4" POLYURETHANE I.D. TAG, INDICATING IDENTIFICATION NUMBER OF VALVE (CONTROLLER AND STATION NUMBER). ATTACH LABEL TO CONTROL WIRE. THE CONTRACTOR SHALL PERMANENTLY STAMP ALL VALVE BOX LIDS WITH APPROPRIATE IDENTIFICATION AS NOTED IN CONSTRUCTION DETAILS.
21. INSTALL A GATE VALVE TO ISOLATE EACH REMOTE CONTROL VALVE OR GROUP OF RCV'S LOCATED TOGETHER. GATE VALVE SIZE SHALL BE SAME AS THE LARGEST REMOTE CONTROL VALVE IN MANIFOLD.
22. FLUSH AND ADJUST IRRIGATION OUTLETS AND NOZZLES FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, ROADWAYS, AND/OR BUILDINGS. SELECT THE BEST DEGREE OF THE ARC AND RADIUS TO FIT THE EXISTING SITE CONDITIONS AND THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH CONTROL ZONE.
23. SET SPRINKLER HEADS PERPENDICULAR TO FINISH GRADE.
24. LOCATE BUBBLERS ON UPHILL SIDE OF PLANT OR TREE.
25. INSTALL A HUNTER HCV SERIES, KBI CV SERIES, OR APPROVED EQUAL SPRING LOADED CHECK VALVE IN SPRINKLER RISER ASSEMBLIES WHERE LOW OUTLET DRAINAGE WILL CAUSE EROSION AND/OR EXCESS WATER.
26. WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, USE CAUTION TO AVOID INJURY TO TREES AND TREE ROOTS. EXCAVATE BY HAND IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR. BACK FILL TRENCHES ADJACENT TO TREE WITHIN TWENTY-FOUR (24) HOURS. WHERE THIS IS NOT POSSIBLE, SHADE THE SIDE OF THE TRENCH ADJACENT TO THE TREE WITH WET BURLAP OR CANVAS.
27. NOTIFY LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.
28. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
29. IRRIGATION DEMAND: REFER TO PLANS.
30. THE EXISTING MAIN LINE SHOWN ON THE DRAWINGS IS DIAGRAMMATIC. VERIFY AND LOCATE EXISTING MAIN LINE IN FIELD. REPORT TO ARCHITECT IN WRITING ANY DEVIATION OF EXISTING MAIN LINE LOCATION FROM THAT SHOWN ON THE DRAWINGS.
31. PIPE SIZING SHOWN ON THE DRAWINGS IS TYPICAL. AS CHANGES IN LAYOUT OCCUR DURING STAKING AND CONSTRUCTION THE SIZE MAY NEED TO BE ADJUSTED ACCORDINGLY.
32. PIPE THREAD SEALANT COMPOUND SHALL BE RECTOR SEAL #5.
33. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR CHANGES IN THE IRRIGATION LAYOUT DUE TO OBSTRUCTIONS NOT SHOWN ON THE IRRIGATION DRAWINGS SUCH AS LIGHTS, FIRE HYDRANTS, SIGNS, ELECTRICAL ENCLOSURES, ETC.
34. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CHANGES IN THE IRRIGATION LAYOUT AND VALVE ZONING DUE TO VARIATIONS IN THE EXISTING SITE CONDITIONS SUCH AS EXPOSURE FROM BUILDINGS, TRELLISES, TREES, ETC., AS WELL AS SLOPE AND SOIL CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT OF THE PROPOSED CHANGES PRIOR TO INSTALLATION FOR APPROVAL.
35. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE IRRIGATION SYSTEM DESIGN IF THE PLANTING DESIGN CHANGES FROM THE ORIGINAL PLAN AND NEEDS TO ADAPT TO THE NEW PLANTING DESIGN. THE LANDSCAPE CONTRACTOR NEEDS TO NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT OF PROPOSED CHANGES PRIOR TO INSTALLATION FOR APPROVAL.
36. WHEN WORK OF THIS SECTION HAS BEEN COMPLETED AND SUCH OTHER TIMES AS MAY BE DIRECTED, REMOVE ALL TRASH, DEBRIS, SURPLUS MATERIALS AND EQUIPMENT FROM SITE.
37. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLEMENTAL HAND WATERING OF ALL PLANT MATERIAL WITHIN DRIPLINE AREAS UNTIL THE PLANTS ARE SUFFICIENTLY ESTABLISHED.
38. VERIFY LOCATIONS OF ALL IRRIGATION COMPONENTS INSTALLED WITHIN A VALVE BOX WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. DO NOT INSTALL UNTIL LANDSCAPE ARCHITECT PROVIDES ACCEPTABLE LOCATIONS.

NOTES:

1. ONE BUBBLER SYMBOL IS SHOWN AT TREES FOR GRAPHIC CLARITY ONLY. INSTALL MINIMUM TWO BUBBLERS AT EACH TREE. INSTALL REQUIRED NUMBER OF BUBBLERS AS DETAILED.
2. IRRIGATION EQUIPMENT MAY BE SHOWN WITHIN HARDSCAPE FOR GRAPHIC CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN PLANTED AREAS. IRRIGATION PIPE AND WIRE CROSSING BENEATH HARDSCAPE SURFACES SHALL BE CONTAINED WITHIN SLEEVING OR SCHEDULE 40 PVC CONDUIT. SLEEVING SIZE SHALL BE A MINIMUM OF TWO TIMES THE AGGREGATE DIAMETER OF ALL PIPES CONTAINED WITH SLEEVE. PROVIDE VERTICAL SWEEP FOR ALL ELECTRICAL CONDUIT ON EACH SIDE OF HARDSCAPE AND TERMINATE ENDS AT 12" MINIMUM DEPTH AND 12" FROM HARDSCAPE SURFACE.
3. UNSIZED LATERAL LINE PIPING LOCATED DOWN STREAM OF 1" PIPING SHALL BE 3/4" IN SIZE (TYPICAL).
4. SIZING OF LATERAL PIPE SHALL BE AS FOLLOWS:

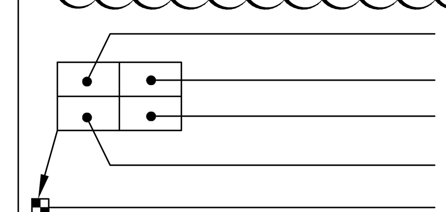
0.75"	0-6 GPM
1"	7-12 GPM
1.25"	13-20 GPM
1.5"	21-32 GPM
2"	33-50 GPM
2.5"	51-70 GPM
3"	71-110 GPM

5. SIZING OF LATERAL PIPE FOR DRIPLINE (18" O.C. GRID WITH 0.6 GPH OR LESS EMITTERS) SHALL BE AS FOLLOW:

0.75"	0-1100 FT
1"	1101-2200 FT
1.25"	2201-3600 FT
1.5"	3601-4800 FT

IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	DESCRIPTION	NOZZLE GPM	OPERATING PSI	OPERATING RADIUS (FEET)
	570Z-12P-XF-COM/ MP2000-90-HT	TORO POP-UP SPRAY SPRINKLER WITH HUNTER MP ROTATOR NOZZLE (BIOSWALE PLANTER)	0.74,0.40	40	16-18
	570Z-12P-PRX-COM/ O-T-15FP,15HP,15QP	TORO POP-UP SPRAY SPRINKLER (SHRUB/GC)	2.3,1.2,0.6	30	12-15
	570Z-12P-PRX-COM/ O-T-12FP,12HP,12QP	TORO POP-UP SPRAY SPRINKLER (SHRUB/GC)	1.5,0.75,.37	30	10-12
	1401	TORO BUBBLER, 1 PER SHRUB	0.25	30	TRICKLE
	1401	TORO BUBBLER, MIN. 2 PER TREE. REFER TO BUBBLER DETAIL FOR QUANTITY OF BUBBLERS PER TREE SIZE.	0.25	30	TRICKLE
	RWS-M-C-1401	RAINBIRD DEEP WATERING SYSTEM FOR TREES IN DG AREAS MIN. 2 PER TREE. REFER TO TREE PLANTING IN DG AND BUBBLER IN DG DETAILS.	0.25	30	TRICKLE
	T-YD-500-34	TORO DRIPLINE AIR RELIEF VALVE			
	WLT-0500-T	NDS SCH 40 BALL VALVE OR APPROVED EQUAL			
	570-DRIP-IND	TORO POP-UP DRIPLINE INDICATOR WITH SIDE INLET.			
	ICV SERIES	HUNTER REMOTE CONTROL VALVE			
	ICZ-101-40	HUNTER REMOTE CONTROL VALVE WITH A 40 PSI PRESSURE REGULATOR AND A 1" FILTER FOR DRIPLINE.			
	ICZ-101-40	HUNTER REMOTE CONTROL VALVE WITH A 40 PSI PRESSURE REGULATOR AND A 1" FILTER FOR LOW FLOW BUBBLERS.			
	44-LRC	RAIN BIRD 1" TWO-PIECE QUICK COUPLING VALVE (YELLOW LOCKING RUBBER COVER)			
	T113-K SERIES	NIBCO BRASS GATE VALVE (LINE SIZE)-2.5" AND SMALLER			
SM	M70-150LNSX-HL	BADGER RECORDALL 1.5" WATER METER			
	975XL2SEU-3/4"-PBB-20	WILKINS REDUCED PRESSURE BACKFLOW ASSEMBLY WITH FREEZE BLANKET FOR TEMPORARY IRRIGATION CONNECTION AT SCIENCE & DRAMA CENTER.			
MV	3200-2"	SUPERIOR MASTER VALVE-2" (NORMALLY CLOSED)			
B	12C-800-M ICM-800 (1)	HUNTER ICC-2 SERIES 8 STATION CONTROLLER INSIDE HUNTER POWDER COATED WALL MOUNT ENCLOSURE. INCLUDE 1-8 STATION EXPANSION MODULES FOR TOTAL OF 16 STATION CAPACITY.			
C	12C-800-M ICM-2200 ICM-800 (2)	HUNTER ICC-2 SERIES 8 STATION CONTROLLER INSIDE HUNTER POWDER COATED WALL MOUNT ENCLOSURE. INCLUDE 1 -22 STATION AND 3-8 STATION EXPANSION MODULES FOR TOTAL OF 46 STATION CAPACITY.			
R	MINI-CLICK SG-MC	HUNTER WIRED RAIN SENSOR INSIDE SS SENSOR ENCLOSURE MOUNTED AT SIDE OF CONTROLLER PEDESTAL.			



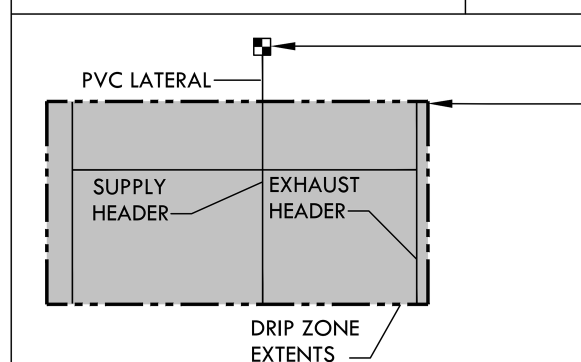
CONTROLLER AND STATION NUMBER
AREA (SQ. FT.)
FLOW (GPM)
REMOTE CONTROL VALVE SIZE (IN INCHES)
ASSOCIATED REMOTE CONTROL VALVE

MAIN LINE: 2 1/2" AND SMALLER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 18" COVER.

LATERAL LINE: 3/4" AND LARGER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 12" COVER.

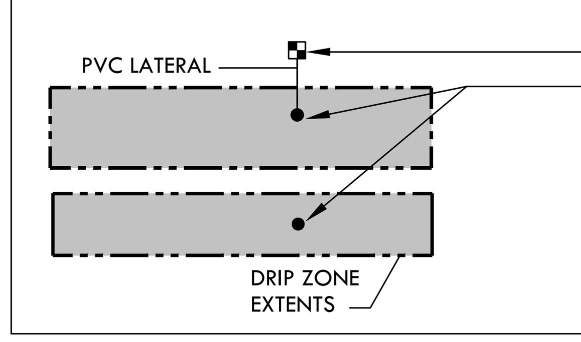
DRIPLINE LATERAL LINE: 3/4" AND LARGER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 12" COVER.

SLEEVING: SCHEDULE 40 PVC PLASTIC PIPE. COVER TO BE AS INDICATED IN SPECIFICATIONS OR AS INDICATED ABOVE FOR PIPE DEPTH OF COVER.



DRIPLINE REMOTE CONTROL VALVE

DRIP ZONE:
TORO DL2000 SERIES DRIPLINE WITH DL2000 INSERT FITTINGS, PART #RGP-218. TUBING TO BE INSTALLED 4" BELOW GRADE IN A 18" O.C. GRID ACCORDING TO DETAILS. SIZE EXHAUST HEADERS AS FOLLOWS: 1": 0-10 GPM, 1.25": 11-20 GPM. ALL EXHAUST HEADERS SHALL BE 1" SCH 40 PVC OR 1" SCH 40 FLEXIBLE PVC. USE SCH. 40 PVC SOLVENT WELD FITTINGS. EXTEND PVC HEADERS TO THE ENDS OF ALL DRIP ZONES TO BALANCE FLOW IF REQUIRED. SEE DETAILS FOR FURTHER INFORMATION.



DRIPLINE REMOTE CONTROL VALVE
APPROXIMATE CONNECTION POINT BETWEEN DRIPLINE TUBING AND PVC SUPPLY WHEN DRIP ZONE IS LESS THAN 3 GPM AND NO PVC SUPPLY/EXHUST HEADERS ARE NEEDED. REFER TO DRIPLINE TUBING CONNECTION DETAIL FOR MORE INFORMATION.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 01-120473 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 11/14/2023

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San Mateo-Foster City School District

District Office
1170 Chess Drive
Foster City, CA 94404

SMFCSD Bowditch Middle School - Academic Quad Buildings

1450 Tarpon St
Foster City, CA 94404

Date	Issued For
07/28/2022	Design Development
09/30/2022	DSA Submittal
06/05/2023	DSA Backcheck
08/31/2023	DSA Backcheck
11/01/2023	REVISION A

REVISION A

GATES +ASSOCIATES
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2020-06953-000

IRRIGATION NOTES AND LEGEND

L2.2

FILENAME: \\RMASRV\COMPANYDATA\2022\22-243 BOWDITCH MS - FOSTER CITY\DWG\CODE CD 11-9-23_DC-IRR-BOWDITCH.DWG

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 01-120473 INC:
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DATE: 11/14/2023

WATER USE ESTIMATION & IRRIGATION SCHEDULE - CONTROLLER C

WATER TYPE	POTABLE	
CITY	Redwood City	*Nearest City to project with published ET data*
ETO	42.9	
DATE	11/9/2023	

REGULAR LANDSCAPE AREAS

STATION/HYDROZONE	GPM	AREA (sq.ft) (HA)	WATER USE TYPE (LW=LOW, MW=MOD, HW=HIGH)	PLANT TYPE	IRRIGATION TYPE	PLANT FACTOR (PF)	IRRIGATION EFFICIENCY (IE)	PRECIP. RATE/ APPLICATION RATE (IN/HR)	ETAF (PF/IE)	CYCLES PER DAY	DAYS PER WEEK	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ETWU (GALLONS PER YEAR)	PERCENTAGE OF LANDSCAPE
												MONTHLY ETO													
												1.5	1.8	2.9	3.8	5.2	5.3	6.2	5.6	4.8	3.1	1.7	1.0		
												TOTAL RUN TIME IN MINUTES PER DAY													
C-1	7	1545	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	15,220	3%
C-2	18	728	LW	BIOSWALE LW	BUBBLER (SHRUB)	0.3	0.81	0.5	0.4	2	3	0.0	0.0	10.0	13.0	18.0	18.0	21.0	19.0	17.0	11.0	6.0	0.0	7,172	2%
C-3	5	292	LW	BIOSWALE LW	BUBBLER (SHRUB)	0.3	0.81	0.5	0.4	2	3	0.0	0.0	10.0	13.0	18.0	18.0	21.0	19.0	17.0	11.0	6.0	0.0	2,877	1%
C-4	5	800	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	3	0.0	0.0	12.0	15.0	21.0	21.0	25.0	22.0	19.0	13.0	7.0	0.0	7,881	2%
C-5	7	1526	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	15,033	3%
C-6	6	1406	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	13,851	3%
C-7	8	640	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	3	0.0	0.0	12.0	15.0	21.0	21.0	25.0	22.0	19.0	13.0	7.0	0.0	6,305	1%
C-8	3	660	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	6,502	1%
C-9	13	400	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	3	0.0	0.0	12.0	15.0	21.0	21.0	25.0	22.0	19.0	13.0	7.0	0.0	3,940	1%
C-10	4	720	MW	TREE MW	BUBBLER (TREE) 0.25 GPM	0.5	0.81	0.43	0.6	2	3	0.0	0.0	19.0	25.0	34.0	35.0	41.0	37.0	32.0	21.0	12.0	0.0	11,821	2%
C-11	11	1313	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	12,935	3%
C-12	20	26	LW	BIOSWALE LW	SPRAY	0.3	0.75	1.6	0.4	2	3	0.0	0.0	4.0	5.0	6.0	6.0	7.0	7.0	6.0	4.0	2.0	0.0	277	0%
C-13	11	2804	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	27,623	6%
C-14	4	767	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	7,556	2%
C-15	3	658	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	6,482	1%
C-16	6	880	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	3	0.0	0.0	12.0	15.0	21.0	21.0	25.0	22.0	19.0	13.0	7.0	0.0	8,669	2%
C-17	7	480	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	3	0.0	0.0	12.0	15.0	21.0	21.0	25.0	22.0	19.0	13.0	7.0	0.0	4,729	1%
C-18	8	1809	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	17,821	4%
C-19	4	320	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	3	0.0	0.0	12.0	15.0	21.0	21.0	25.0	22.0	19.0	13.0	7.0	0.0	3,152	1%
C-20	42	1960	LW	BIOSWALE LW	SPRAY	0.3	0.75	1.6	0.4	2	3	0.0	0.0	4.0	5.0	6.0	6.0	7.0	7.0	6.0	4.0	2.0	0.0	20,853	4%
C-21	3	480	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	3	0.0	0.0	12.0	15.0	21.0	21.0	25.0	22.0	19.0	13.0	7.0	0.0	4,729	1%
C-22	1	1566	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	15,427	3%
C-23	1	1835	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	18,077	4%
C-24	15	1200	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	3	0.0	0.0	12.0	15.0	21.0	21.0	25.0	22.0	19.0	13.0	7.0	0.0	11,821	3%
C-25	9	780	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	3	0.0	0.0	12.0	15.0	21.0	21.0	25.0	22.0	19.0	13.0	7.0	0.0	7,684	2%
C-26	7	1624	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	15,998	4%
C-27	7	1647	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	16,225	4%
C-28	4	827	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	8,147	2%
C-29	6	1190	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	11,723	3%
C-30	3	272	LW	SHRUB GC LW	BUBBLER (SHRUB)	0.3	0.81	0.5	0.4	2	3	0.0	0.0	10.0	13.0	18.0	18.0	21.0	19.0	17.0	11.0	6.0	0.0	2,680	1%
C-31	5	480	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	3	0.0	0.0	12.0	15.0	21.0	21.0	25.0	22.0	19.0	13.0	7.0	0.0	4,729	1%
C-32	6	960	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	3	0.0	0.0	12.0	15.0	21.0	21.0	25.0	22.0	19.0	13.0	7.0	0.0	9,457	2%
C-33	6	1264	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	12,452	3%
C-34	7	1732	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	17,062	4%
C-35	16	1360	LW	BIOSWALE LW	BUBBLER (SHRUB)	0.3	0.81	0.5	0.4	2	3	0.0	0.0	10.0	13.0	18.0	18.0	21.0	19.0	17.0	11.0	6.0	0.0	13,398	3%
C-36	12	960	MW	TREE MW	BUBBLER (TREE) 0.25 GPM	0.5	0.81	0.43	0.6	2	3	0.0	0.0	19.0	25.0	34.0	35.0	41.0	37.0	32.0	21.0	12.0	0.0	15,762	2%
C-37	8	1463	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	14,412	3%
C-38	4	1375	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	13,545	3%
C-39	5	1142	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	11,250	3%
C-40	9	800	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	3	0.0	0.0	12.0	15.0	21.0	21.0	25.0	22.0	19.0	13.0	7.0	0.0	7,881	2%
C-41	12	800	LW	BIOSWALE LW	BUBBLER (SHRUB)	0.3	0.81	0.5	0.4	2	3	0.0	0.0	10.0	13.0	18.0	18.0	21.0	19.0	17.0	11.0	6.0	0.0	7,881	2%
C-42	8	1927	LW	SHRUB GC LW	DRIP LINE 18"	0.3	0.81	0.4	0.4	2	3	0.0	0.0	13.0	16.0	22.0	23.0	26.0	24.0	21.0	13.0	8.0	0.0	18,983	4%
																								0	0%
	TOTAL	45,418																					TOTAL	460,016	100%

SPECIAL LANDSCAPE AREAS

HYDROZONE #	HYDROZONE NAME	AREA (sq.ft) (HA)	Percentage of Landscape
			0%

THE IRRIGATION VALVE SCHEDULE SHOWN ABOVE IS INTENDED TO BE USED AS A GUIDELINE ONLY AND INDICATES THE APPROXIMATE RUN TIMES IN MINUTES FOR EACH VALVE BASED ON ESTIMATED WEEKLY WATER REQUIREMENTS FOR ESTABLISHED PLANT MATERIAL. THE TIMES SHOWN ARE APPROXIMATE AND HAVE BEEN DEVELOPED FROM LOCAL AND CURRENT AVERAGES FOR EVAPOTRANSPIRATION, AND REFLECTTHE WATER REQUIREMENTS OF THE PLANT MATERIAL BASED ON PLANT TYPE AND THE APPROXIMATE PRECIPITATION OR APPLICATION RATES OF THE IRRIGATION SYSTEM TYPE. ACTUAL RUN TIMES MAY BE DIFFERENT DEPENDING ON A VARIETY OF FACTORS INCLUDING TOPOGRAPHY, SOIL STRUCTURE, SUN AND WIND EXPOSURE, WEATHER, ACTUAL PLANT WATER REQUIREMENTS, OVERALL PRECIPITATION RATE OF ZONE, ETC.

MAWA	GALLONS/YR	543,613
	ACRE FEET/YR	1.67
	HCF/YR	726.75
ETWU	GALLONS/YR	460,016
	ACRE FEET/YR	1.41
	HCF/YR	614.99

SITE IRRIGATION EFFICIENCY	SITE PLANT FACT0R	MAWA COMPLIANT
75.0%	0.280	YES

ETAF Calculations	
REGULAR LANDSCAPE AREAS	
TOTAL ETAF x AREA	842
TOTAL AREA	45,418
AVG. ETAF	1.85%

MAWA FORMULA

MAXIMUM APPLIED WATER ALLOWANCE (MAWA) GALLONS PER YEAR

MAWA = (ETo)(0.62)[(LA x 0.45) + (0.55 x SLA)]

ETo = REFERENCE EVAPOTRANSPIRATION

0.45= ET ADJUSTMENT FACTOR

LA=LANDSCAPED AREA (SQUARE FEET)
0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

ETWU FORMULA

ESTIMATED TOTAL WATER USE (ETWU) GALLONS PER YEAR

ETWU= ((ETO)(.62)(ETAF x LA))

ETo = REFERENCE EVAPOTRANSPIRATION

PF = PLANT FACTOR FOR HYDROZONES

HA = HYDROZONE AREA (SQ.FT)
0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

IE = IRRIGATION EFFICIENCY (0.81)-BUBBLER/DRIP

IE = IRRIGATION EFFICIENCY (0.75)-ROTORS/SPRAY

FILENAME: \\RMASRV\COMPANYDATA\2022\22-243 BOWDITCH MS - FOSTER CITY\DWG\100% CD 11-9-23_DG-IRR-BOWDITCH.DWG

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San Mateo-Foster City School District

District Office
1170 Chess Drive
Foster City, CA 94404

SMFCSD Bowditch Middle School - Academic Quad Buildings

1450 Tarpon St
Foster City, CA 94404

Date	Issued For
07/28/2022	Design Development
09/30/2022	DSA Submittal
06/05/2023	DSA Backcheck
08/31/2023	DSA Backcheck
11/01/2023	REVISION A ⚠1

LANDSCAPE ARCHITECT — REGISTERED — CASEY CASE No. 6032 — 6/30/2024 Renewal Date — 11/1/2023 Date — L.A. — STATE OF CALIFORNIA

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www.rmairrigation.com

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2020-06953-000

IRRIGATION WATER USE CALCULATIONS

L2.6

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 01-120473 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 11/14/2023

BEACH PARK BOULEVARD

GYMNASIUM BUILDING

BUILDING T

BUILDING U

BUILDING V

BUILDING S

BUILDING R

SCIENCE BUILDING

DRAMA BUILDING

BARK MULCH, SEE SPECS.

L.O.W.

PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE		QTY
APE	ACER PALMATUM DISSECTUM 'EMERALD LACE'	EMERALD LACE JAPANESE MAPLE	24"BOX	M		11
APV	ACER PALMATUM DISSECTUM 'VIRIDIS'	VIRIDIS JAPANESE MAPLE	24"BOX	M		6
ARA	ACER RUBRUM 'ARMSTRONG'	ARMSTRONG RED MAPLE	24"BOX	M		15
CEO	CERCIS OCCIDENTALIS MULTI-TRUNK	WESTERN REDBUD	15 GAL	VL		22
LAM	LAGERSTROEMIA INDICA 'MUSKOGEE'	MUSKOGEE CREPE MYRTLE	24"BOX	L		16
LIP	LAGERSTROEMIA INDICA 'PURPLE MAGIC'	PURPLE TOWER CRAPE MYRTLE	15 GAL	L		4
LNS	LAURUS 'SARATOGA'	SARATOGA BAY	15 GAL	L		6
POM	PODOCARPUS MACROPHYLLUS	YEW PINE	24"BOX	L		30
QUL	QUERCUS LOBATA	VALLEY OAK	15 GAL	L		7
QUS	QUERCUS SUBER	CORK OAK	24"BOX	L		8
QUV	QUERCUS VIRGINIANA 'SDLN'	CATHEDRAL™LIVE OAK	24"BOX	M		15
UPD	ULMUS PARVIFOLIA 'DRAKE'	DRAKE ELM	24"BOX	L		7
UFR	ULMUS X 'FRONTIER'	FRONTIER ELM	24"BOX	L		27

SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	SPACING	QTY
BP	BACCHARIS PILULARIS 'PIGEON POINT'	PIGEON POINT COYOTE BRUSH	1 GAL	L	72" o.c.	208
CL	CALLISTEMON VIMINALIS 'LITTLE JOHN'	LITTLE JOHN WEEPING BOTTLEBRUSH	5 GAL	L	36" o.c.	102
CE	CHONDROPETALUM ELEPHANTINUM	LARGE CAPE RUSH	5 GAL	L	48" o.c.	112
CH	CHONDROPETALUM TECTORUM 'EL CAMPO'	CAPE RUSH	5 GAL	L	48" o.c.	169
DB	DIETES BICOLOR	FORTNIGHT LILY	1 GAL	L	36" o.c.	346
DV	DIETES GRANDIFLORA 'VARIEGATA'	VARIEGATED AFRICAN IRIS	5 GAL	L	36" o.c.	156
FM	FESTUCA MAIREI	ATLAS FESCUE	1 GAL	L	36" o.c.	560
HS	HESPERALOE PARVIFLORA 'SURPRISE BOUQUET'	SURPRISE BOUQUET RED YUCCA	5 GAL	L	48" o.c.	222
HY	HESPERALOE PARVIFLORA 'YELLOW'	YELLOW YUCCA	5 GAL	L	36" o.c.	256
HB	HESPERALOE PARVIFLORA 'PERPA'	BRAKELIGHTS®RED YUCCA	5 GAL	L	30" o.c.	209
KG	KNIPHOFIA X 'POCO ORANGE'	POCO ORANGE HOT POKER	1 GAL	L	30" o.c.	234
LC	LEYMUS CONDENSATUS 'CANYON PRINCE'	CANYON PRINCE GIANT WILD RYE	1 GAL	L	42" o.c.	332
PV	PITTOSPORUM TOBIRA 'VARIEGATA'	VARIEGATED MOCK ORANGE	5 GAL	L	60" o.c.	185
RE	RUSSELIA EQUISETIFORMIS	FIRECRACKER PLANT	5 GAL	M	48" o.c.	43
SB	SALVIA LEUCANTHA 'SANTA BARBARA'	SANTA BARBARA MEXICAN BUSH SAGE	1 GAL	L	48" o.c.	66
SH	SALVIA MICROPHYLLA 'HOT LIPS'	BABY SAGE	5 GAL	L	48" o.c.	34
SA	SALVIA X 'BEE'S BLISS'	BEE'S BLISS SAGE	1 GAL	L	72" o.c.	11

SCALE
0 10' 20' 40'

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San Mateo-Foster City School District

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SMFCSD Bowditch Middle School - Academic Quad Buildings

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REGISTERED LANDSCAPE ARCHITECT
CHRISTOPHER J. GATES
6/30/2024
11/1/2023
L.A.
STATE OF CALIFORNIA

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2020-06953-000

TREE PLANTING PLAN

L3.1

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