



CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT

February 21, 2023

Addendum No. 1 INVITATION TO BID.: BID No. B22/23-04 LANDSCAPE RENOVATION PROJECT Las Positas College

To: All Prospective Bidders

This Addendum One (1) is issued to incorporate the following changes, additions, or deletions to the Bid No. B22/23-04. Any modifications/changes made by this addendum affect only the portions or paragraphs specifically identified herein; all remaining portions of Bid No. B22/23-04 to remain in force. It is the responsibility of all responders to conform to this addendum.

A. ADDITIONS, CHANGES AND/OR CLARIFICATIONS:

Changes: Please remove in its entirety the FAQ document and replace with the attached Revised FAQ document.

The following Changes have been Added and Changed to the bid documents:

- 1. Barricades & Chain Link Fence:** Add to Division 1 General Requirements, Specification Section 01 50 00, 1.02.A Temporary Facilities. Add Verbiage: Contractor shall install on fence green fabric to help with Dust Control and to keep Students and Faculty away from site while work is ongoing.
- 2. Attached is an updated set of the drawings (complete set) with changes clouded and delta'd with "A1" and dated 2/21/23.** Contractor is required to review all sheets for clouded and delta A1 information.
 - 1. Alternates (1) is the amphitheater, (2) is the labyrinth, and Alt. (3) is the trees along the parking lot have**

2. The following notes are added to the demolition plan, L-102 for clarity regarding soils:
 - a. Note 11. Contractor responsible for surveying and identifying all utilities prior to any demolition. Bring any conflicts to the attention of the Owner and Architect prior to digging for clarification.
 - b. Note 13. All plant debris cleared in areas marked for clearing and grubbing shall be removed off-site including, but not limited to, lawn, shrub, and tree debris.
 - c. Note 14. Strip clean topsoil for stockpiling and reuse on this project. No grass or other debris may be stored in the stockpile. Contractor will be responsible for removal of all grass, debris, etc. found by College and Facilities staff.
 - d. Note 15. All remaining clean subsoil removed for grading purposes may be stored on site at location identified by Owner. No grass or other debris may be stored in the stockpile. Contractor will be responsible for removal of all grass, debris, etc. found by College and Facilities staff.

3. The following note is added to sheet G-002.
 - a. Note 16. Contractor responsible for surveying and identifying all utilities prior to any demolition. Bring any conflicts to the attention of the Owner and Architect prior to digging for clarification.

B. RFI QUESTIONS AND RESPONSES:

Question No. 1: Not Applicable. No bid RFIs received from bidders.

RESPONSE: Not Applicable. No bid RFIs received from bidders.

All other terms and conditions remain unchanged.

Michael McClung - Buyer, Purchasing and Warehouse Services
Chabot-Las Positas Community College District



Chabot-Las Positas Community College

FREQUENTLY ASKED QUESTIONS About Bidding a Project

Q. *Where can I find information about Bid No. B22/23-04 – Landscape Renovation Project?*

A. Information will be made available on the District's website. To access the site go to <http://districtazure.clpccd.org/business/open.php> Under Bidding Opportunities, Invitation to Bid, find the applicable project – Bid No. B22/23-04.

Q. *What is the scope for this project?*

A. Approximately on the Northeast corner of the Las Positas College Campus has been allocated for the Landscape Renovation. The scope of work includes, but is not limited to, the construction of Las Positas College. Renovation of main campus entry and landscape. The work includes the following.

1. Selective demolition of paving and landscaping.
2. Trenching to accommodate re-routing of existing utilities and installation of new utilities for new lighting and storm drainage.
3. New walks and paved seating spaces
4. New landscaping and irrigation
5. Replacement of existing site work that will be disturbed by the work described above.
6. Signage and Flag Poles

Q. *What is the Engineering Estimate for this project?*

A. The estimate for the Las Positas College-Agriculture Science, Horticulture Facility Project is **\$1,600,000.00**

Q. *What does the bid document consist of?*

A. The bid document consists of District's Div. 00 and 01; and Keller Mitchell aka Cupples Keller Design technical specifications, and contract drawings for the project.

Q. *Where can I obtain a set of plans for this project?*

A. <http://districtazure.clpccd.org/business/open.php>

Q. *Where do I send my questions regarding the bid documents?*

A. Using the "Bid Question Form" which will be handed out at the Pre-Bid Site Visit or can be obtained from the District's website (see above to find site). Email Marie Hampton, Purchasing and Warehouse Manager at mhampton@clpccd.org or Michael McClung at mmcclung@clpccd.org

Q. *Will there be a MANDATORY WALK for this project?*

A. Yes. General Contractors are **REQUIRED** to attend the Pre-Conference and Job Walk on either **Wednesday, February 01, 2023 at 10:00 AM**. All participants are required to sign-in at the Pre-Bid Conference and Job Walk and provide business cards including e-mail address. Bidders are to meet at Las Positas College campus at 3000 Campus Hill Drive., Facilities Management Office Trailer adjacent to building 1300, Livermore, California 94551. Walk of the construction site will take place after the Pre-Conference meeting. Failure to attend in its entirety or tardiness will render bid ineligible.

Q. *Where can I get a copy of the Pre-Bid Conference Sign-in Sheet or the plan holders list?*



Chabot-Las Positas Community College

- A. Job Walk attendees and Plan holder's List can be found at:
<http://districtazure.clpccd.org/business/open.php>
- Q. ***Does the General Contractor have to be pre-qualified with your District in order to bid this project?***
- A. No.

MATERIALS SCHEDULE

ITEM	DESCRIPTION	FINISH	COLOR	MANUFACTURER	CATALOG NO. / DIMENSIONS	NOTES
PAVING						
	GRANITECRETE PAVING	-	NATURAL GOLD (ADMIXTURE COLOR)	AMERICAN SOIL & STONE 510.292.3000, GRANITECRETE 800.670.0849	GOLD PATH FINES (3/8" MINUS), GRANITECRETE ADMIXTURE	-
	METAL HEADER AT GRANITECRETE PAVING	ANODIZED	BLACK	PERMALOC 800.356.9660	3/16" X 4" CLEANLINE ALUMINUM EDGING	-
	MOW BAND	LIGHT BROOM	NATURAL GREY	-	12" WIDE X 6" DEPTH CONCRETE	-
	BID ALTERNATE #2: METAL PAVER EDGE RESTRAINT AT LABYRINTH	ANODIZED	BLACK	PERMALOC 800.356.9660	4" X 3" ASPHALTEDE ALUMINUM EDGING	-
	BID ALTERNATE #2: LABYRINTH	-	CHARCOAL FIELD WITH BUFF LINES	LABYRINTH COMPANY 203.832.3815	Abingdon à la Chartres 6 CIRCUIT LABYRINTH KIT, 23'-7.25" O.D., 2-3/8" THICK CONCRETE PAVERS OVER COMPACTED AGGREGATE BASE	-
FURNISHING						
	BOULDER SEATING	TOP: THERMAL SIDES: SPLIT	SIERRA WHITE GRANITE	COLDSRING GRANITE 800.328.5040	MONOLITHIC CUT GRANITE: SMALL: 24" HT. X 18" W. X 24" L. MEDIUM: 24" HT. X 18" W. X 36" L. LARGE: 24" HT. X 18" W. X 48" L.	SURFACE MOUNT
	BID ALTERNATE #1: STONE AMPHITHEATER SEATING	TOP: THERMAL SIDES: SPLIT	SIERRA WHITE GRANITE	COLDSRING GRANITE 800.328.5040	MONOLITHIC CUT GRANITE: SMALL: 24" HT. X 18" W. X 24" L. MEDIUM: 24" HT. X 18" W. X 36" L. LARGE: 24" HT. X 18" W. X 48" L.	EMBEDDED IN SLOPE
	ENTRY SIGN	PAINTED	T.B.D.	THOMAS SWAN SIGN CO., INC. CONTACT: BRUCE THOMAS 415.760.2031	SIGN: LETTER HEIGHTS VARY DEPENDING ON THE LETTER, 2'-6" MIN. TO 3'-4" MAX. TALL PAINTED ALUMINUM LETTER FORMS MOUNTED TO PRECAST WALL	-
	PRECAST WALL AT ENTRY SIGN	LIGHT SANDBLAST / CRAFTSMAN ETCH	FRENCH GRAY	QCP CORP. CONTACT: NEIL ELENZWEIG 415.971.9669	PRECAST CONCRETE STEEL-REINFORCED WALL WITH INTEGRAL COLOR. INSTALL OVER POURED-IN-PLACE CONCRETE FOOTING.	-
	30' FLAGPOLE	SATIN	ALUMINUM/WHITE	BOLANDER & SONS 800.434.5611	LTJ30', 30' HT. EXPOSED, INTERNAL HALYARD	-
	25' FLAGPOLE	SATIN	ALUMINUM/WHITE	BOLANDER & SONS 800.434.5611	LTJ25', 25' HT. EXPOSED, INTERNAL HALYARD	-
F1	KEPLERO MINI LED WALL WASH LIGHT	-	-	TARGETTI 714.513.1991	14 WATT LED LIGHT PRODUCES 957 LUMENS FIXTURES ARE EQUIPPED WITH 4/1 DRIVER (NON-DIMMABLE / 0-10V) IT COMES IN 120V - 277V COLOR TEMPERATURES - 3000K FIXTURE: LIGHTING SUPPLY #KPLM-41-WW-L1-40	MOUNTING: FLUSH AND SEMI FLUSH MOUNT WITH OPTIONAL L BRACKET VOLT: UNV LAMPS: 14W LED 3000K Rø84 CRI

F2	KEPLERO MINI LED ZOOM SPOT LIGHT	-	-	TARGETTI 714.513.1991	14 WATT LED LIGHT PRODUCES 1156 LUMENS FIXTURES ARE EQUIPPED WITH 4/1 DRIVER (NON-DIMMABLE / 0-10V) IT COMES IN 120V - 277V COLOR TEMPERATURES - 3000K FIXTURE: LIGHTING SUPPLY #KPLM-41-ZM-L2-40	MOUNTING: AND SEMI FLUSH MOUNT WITH OPTIONAL L BRACKET VOLT: UNV LAMPS: 14W LED 3000K Rø84 CRI
F3	CAMPUS STANDARD POLE LIGHT. SEE NOTE #1 KIPP POST	-	-	LOUIS POULSEN 954.349.2525	82 WATT LED LIGHT PRODUCES 7472 LUMENS FIXTURES ARE EQUIPPED WITH DRIVER IT COMES IN 120V - 277V COLOR TEMPERATURES - 3000K FIXTURE: LIGHTING SUPPLY VARIANT NUMBER: 5747920671	MOUNTING: RSA-4.5" POLES VOLT: UNV LAMPS: 82W 3000K

AUTHORITY APPROVAL



GENERAL NOTES

- PERFORM WORK IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND APPLICABLE REQUIREMENTS OF ALL OTHER REGULATORY AGENCIES.
- UNLESS OTHERWISE SPECIFIED, SPECIFIC REFERENCES TO CODES, REGULATIONS, STANDARDS, MANUFACTURERS' 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 AT THE DATE OF SUBMISSION OF BIDS, OR THE DATE OF THE CHANGE ORDER OR FIELD ORDERS, AS APPLICABLE.
- COORDINATE ALL WORK WITH EXISTING CONDITIONS, INCLUDING, BUT NOT LIMITED TO, IRRIGATION PIPES, ELECTRICAL CONDUIT, WATER LINES, DRAINAGE LINES, GAS LINES, ETC.
- PROTECT ALL SITE CONDITIONS TO REMAIN INCLUDING TREES, PLANTING, PAVING, LIGHT STANDARDS, ETC.
- DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY IN SIMILAR CONDITIONS.
- INSTALL ALL EQUIPMENT AND MATERIALS PER MANUFACTURER'S RECOMMENDATIONS.
- WHERE 'VERIFY' OR 'VERIFY IN FIELD' IS USED IN CONJUNCTION WITH A DIMENSION, THE CONTRACTOR SHALL VERIFY THE MEASUREMENT PRIOR TO COMMENCING THE WORK. IMMEDIATELY BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY WITH THE DISTRICT AND ARCHITECT ANY AND ALL ITEMS TO BE SAVED FOR REUSE, AND SHALL REMOVE AND STORE THEM IN A PROTECTED AREA ON THE JOBSITE, OR AS DIRECTED BY THE SCHOOL DISTRICT AND ARCHITECT.

KEY PLAN

LAYOUT NOTES

- ALL DIMENSIONS, UNLESS OTHERWISE INDICATED, ARE TO FACE OF WALL OR STRUCTURE, OR BACK OF CURB.
- WRITTEN DIMENSIONS ALWAYS TAKE PRECEDENCE OVER SCALED DIMENSIONS. IF THERE IS A CONFLICT, NOTIFY THE DISTRICT AND LANDSCAPE ARCHITECT FOR CLARIFICATION.
- SAW CUT EXISTING CONCRETE PAVING OR CURBS AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. ARCHITECT TO APPROVE LOCATIONS OF SAW CUTS PRIOR TO CUTTING.
- INSTALL NEW EXPANSION JOINTS WITHOUT DOWELS AT ALL LOCATIONS WHERE CONCRETE PAVING ABUTS WALLS OR OTHER VERTICAL SURFACES.
- INSTALL EXPANSION JOINTS WITH DOWELS EVERYWHERE ELSE.
- THIS PLAN DOES NOT REPRESENT A PROPERTY LINE SURVEY. PROPERTY LINES SHOWN HEREON MAY NOT REPRESENT THE TRUE POSITION OF THE LINE.
- EXISTING FEATURES AND TOPOGRAPHIC INFORMATION HAVE BEEN TAKEN FROM A SURVEY PROVIDED BY SANDIS DATED AUGUST 5TH, 2022. KELLER MITCHELL & CO. LANDSCAPE ARCHITECTURE ASSUMES NO LIABILITY REGARDING THE ACCURACY OF THE EXISTING FEATURES OR TOPOGRAPHIC INFORMATION SHOWN.

GRADING NOTES

- CALL UNDERGROUND SERVICE ALERT (USA) @ (800) 642-2444 TO LOCATE EXISTING UTILITIES PRIOR TO ANY EXCAVATIONS AND/OR REMOVALS.
- (E) GRADES ARE TAKEN FROM A TOPOGRAPHICAL SURVEY DATED 08/05/2023.
- SLOPE UNIFORMLY BETWEEN GIVEN ELEVATIONS UNLESS OTHERWISE INDICATED. MAKE TRANSITIONS BETWEEN CHANGES IN VERTICAL GRADIENT SMOOTH AND FLOWING, WITH NO ABRUPT CHANGES IN PLANE.
- ALL LANDSCAPE PAVING AND HARDSCAPE ELEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LANDSCAPE GRADING PLANS.

PLANTING NOTES

- PLANTING PLAN PROVIDES A GUIDE FOR GENERAL PLANTING LAYOUT ONLY. FINAL LAYOUT SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. FIELD ADJUSTMENTS MAY BE MADE AT THIS TIME.
- CONTRACTOR SHALL COORDINATE AND VERIFY THE LOCATION OF UNDERGROUND UTILITIES WITHIN WORK AREAS PRIOR TO INSTALLING NEW UTILITIES OR EXCAVATION OF LARGER PLANTING HOLES AND SHALL BE RESPONSIBLE FOR THEIR PROTECTION.
- LOCATIONS OF ALL PLANT MATERIAL SHALL BE APPROVED BY ARCHITECT PRIOR TO EXCAVATING PLANTING HOLES.
- PLANT SPACING SHALL TAKE PRECEDENCE OVER IRRIGATION VALVE BOX, PIPE AND OTHER EQUIPMENT LOCATIONS.
- ALL VALVE BOX LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.

DRAWING TITLE

LANDSCAPE
GENERAL NOTES

SHEET NO.

L-001

PROJECT NO.

22202

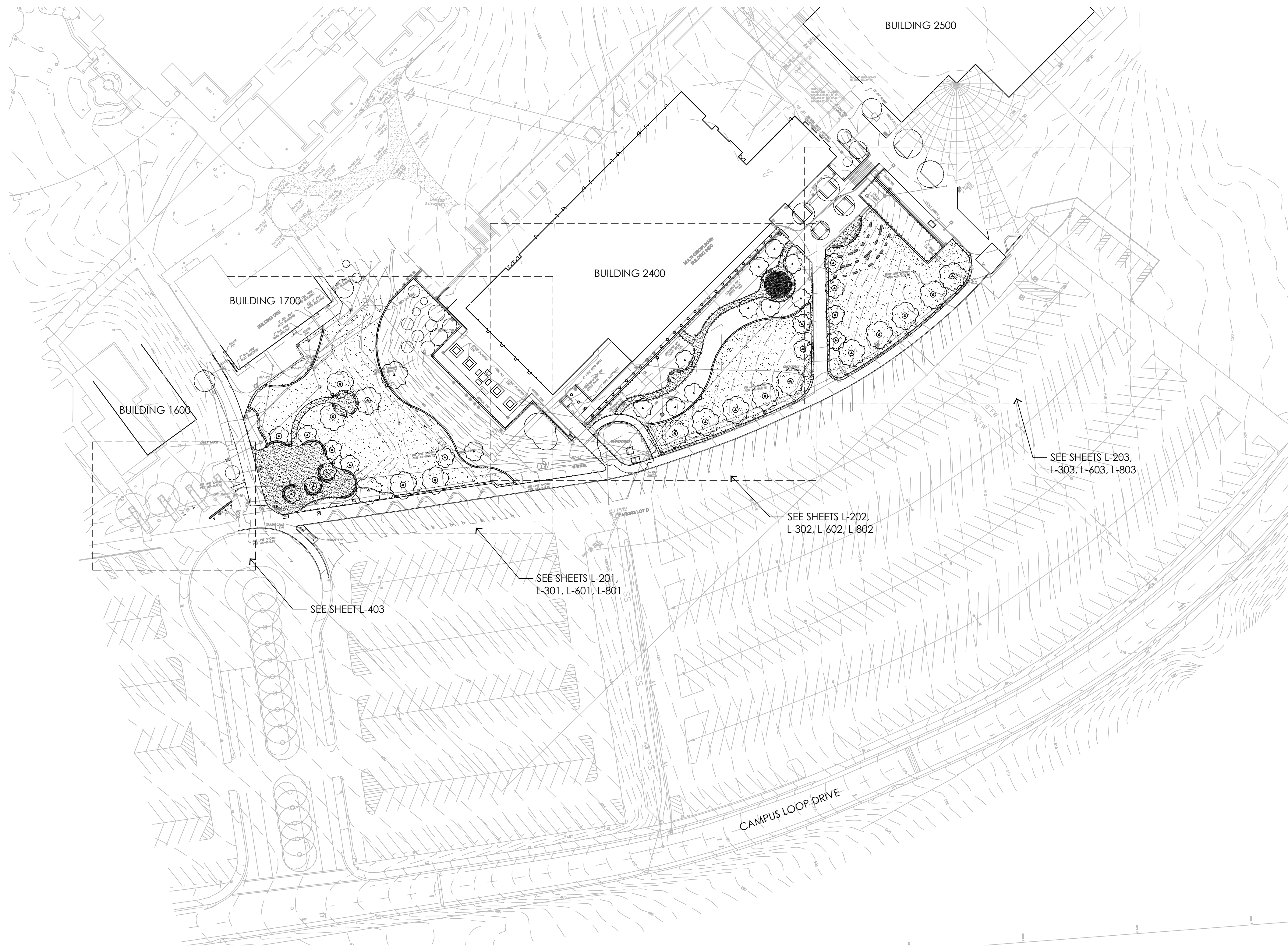
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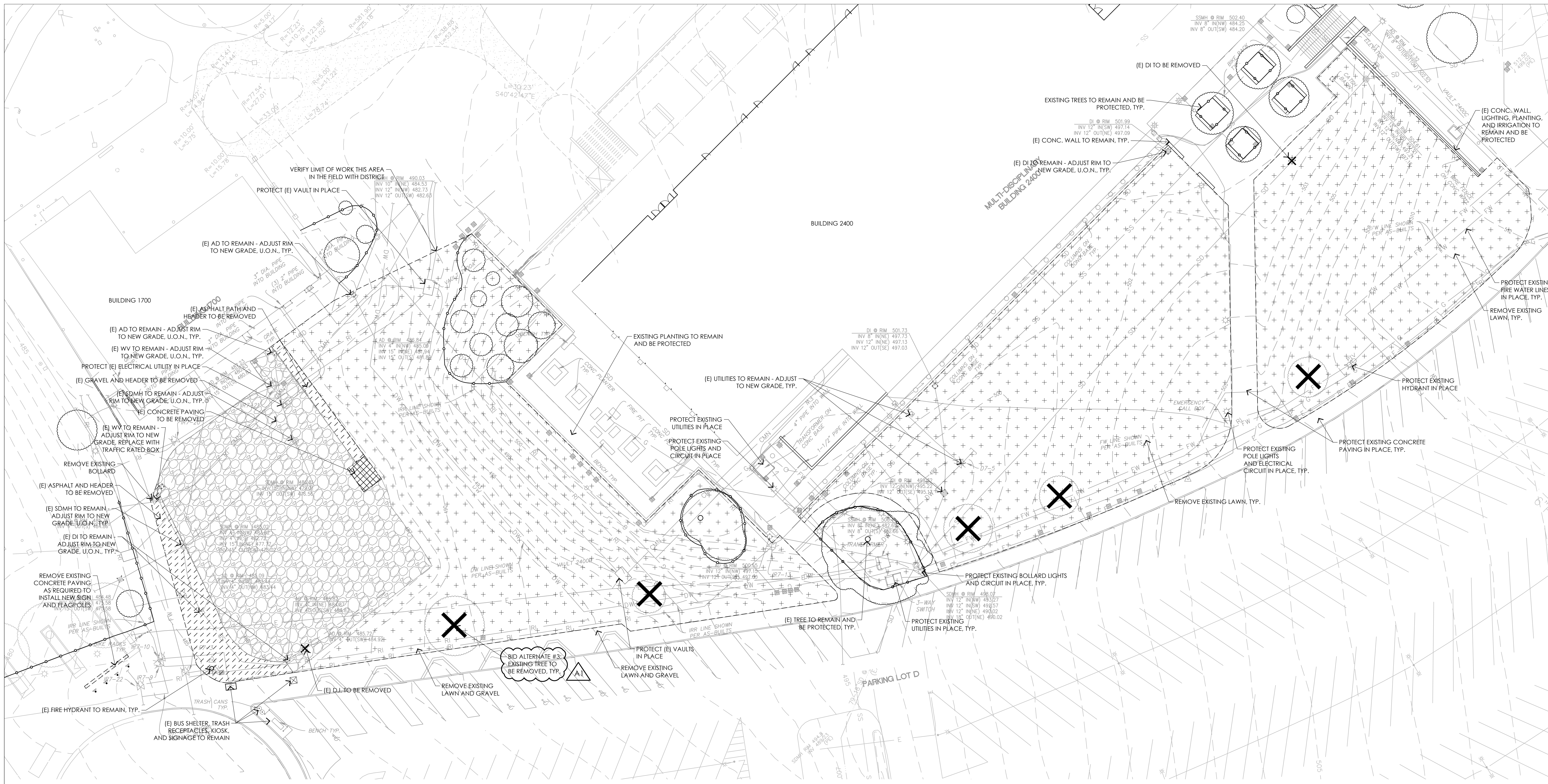
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OVERALL SITE PLAN





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KEY PLAN

CLPCCD - LAS POSITAS COLLEGE LANDSCAPE RENOVATION
3000 CAMPUS HILL DRIVE,
LIVERMORE, CA 94551

DEMOLITION NOTES:

- THIS PLAN DOES NOT REPRESENT A PROPERTY LINE SURVEY. PROPERTY LINES SHOWN HEREON MAY NOT REPRESENT THE TRUE POSITION OF THE LINE.
- EXISTING FEATURES AND TOPOGRAPHIC INFORMATION HAVE BEEN TAKEN FROM A BASE PLAN PROVIDED BY CLPCCD AND PREPARED BY SANDIS, DATED 8/5/2022. KELLER MITCHELL & CO. LANDSCAPE ARCHITECTURE ASSUMES NO LIABILITY REGARDING THE ACCURACY OF THE EXISTING FEATURES OR TOPOGRAPHIC INFORMATION SHOWN.
- TAKE PRECAUTIONARY MEASURES NECESSARY TO PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS AND UTILITIES WHICH ARE TO REMAIN IN PLACE. THE LANDSCAPE ARCHITECT AND OWNER SHALL BE NOTIFIED IMMEDIATELY IF ANY DAMAGE OCCURS OR IS DISCLOSED DURING DEMOLITION. EXPEDITIOUSLY REPAIR IN KIND IMPROVEMENTS AND UTILITIES REMOVED OR DAMAGED BY THE CONTRACTOR'S OPERATIONS.
- GENERAL CONTRACTOR AND/OR SUBCONTRACTORS SHALL REVIEW THE EXISTING FACILITY TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED TO INSTALL THE NEW WORK. A WRITTEN OUTLINE OF ALL REQUIRED DEMOLITION SHALL BE SUBMITTED TO THE OWNER DESCRIBING (BUT NOT LIMITED TO) ANY UNNOTED EXISTING CONDITION WHICH CONFLICTS WITH THE PROJECT REQUIREMENTS AND MAY REQUIRE MODIFICATION. RELOCATION OR REMOVAL TO COMPLETE THE PROJECT SUCH THAT THE NECESSARY DRAWING REVISIONS MAY BE INCORPORATED INTO THE PROJECT REQUIREMENTS.
- REMOVE ALL ITEMS AS INDICATED ON PLANS.
- CONTRACTOR TO MARK LAYOUT OF DEMOLITION FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO BEGINNING DEMOLITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING FROM THE SITE ALL RUBBLE AND DEBRIS CAUSED BY DEMOLITION AND DISPOSING OF IT IN A PROPER MANNER UNLESS NOTED.
- PROTECT ALL EXISTING DROP INLETS, MANHOLES, UTILITY VAULTS, METER AND VALVE BOXES, CATCH BASINS, AND THE LIKE, FROM DEBRIS AND DUST DURING DEMOLITION AND CONSTRUCTION.
- PROTECT ALL EXISTING PAVING / ASPHALT TO REMAIN AND REPAIR IF DAMAGED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE UTILITIES ABOVE GROUND AND BELOW GRADE IMPROVEMENTS PRIOR TO BEGINNING EXCAVATION.
- THE CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND IDENTIFYING ALL UTILITIES PRIOR TO ANY DEMOLITION. BRING ANY CONFLICTS TO THE ATTENTION OF THE OWNER AND ARCHITECT PRIOR TO DIGGING FOR CLARIFICATION.
- PROTECT ALL EXISTING TREES. IF INJURY SHOULD OCCUR TO ANY TREE DURING CONSTRUCTION, IT SHOULD BE EVALUATED AS SOON AS POSSIBLE BY THE CONSULTING ARBORIST SO THAT APPROPRIATE TREATMENTS CAN BE APPLIED. REPAIR AND REPLACEMENT OF EXISTING TREES DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. NO MATERIALS, EQUIPMENT, SPOIL, WASTE OR WASH-OUT WATER MAY BE DEPOSITED, STORED, OR PARKED WITHIN THE DRIFLINE OF THE TREES.
- ALL PLANT DEBRIS CLEARED IN AREAS MARKED FOR CLEARING AND GRUBBING SHALL BE REMOVED OFF-SITE INCLUDING, BUT NOT LIMITED TO, LAWN, SHRUB, AND TREE DEBRIS.
- STRIP CLEAN TOPSOIL FOR STOCKPILING AND REUSE ON THIS PROJECT. NO GRASS OR OTHER DEBRIS MAY BE STORED IN THE STOCKPILE. CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF ALL GRASS, DEBRIS, ETC. FOUND BY COLLEGE AND FACILITIES STAFF.
- ALL REMAINING CLEAN SUBSOIL REMOVED FOR GRADING PURPOSES MAY BE STORED ON SITE AT LOCATION IDENTIFIED BY OWNER. NO GRASS OR OTHER DEBRIS MAY BE STORED IN THE STOCKPILE. CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF ALL GRASS, DEBRIS, ETC. FOUND BY COLLEGE AND FACILITIES STAFF.

LEGEND:

- EXISTING TREE TO REMAIN AND BE PROTECTED
- BID ALTERNATE #3: EXISTING TREE TO BE REMOVED
- TREE PROTECTION FENCE
- CLEAR AND GRUB EXISTING PLANTING
- EXISTING ASPHALT PAVING TO BE REMOVED
- EXISTING GRAVEL TO BE REMOVED
- EXISTING CONCRETE PAVING TO BE REMOVED



Date	Issue
01/19/2023	BID SET
02/21/2023	ADDENDUM 1

DRAWING TITLE

DEMOLITION PLAN

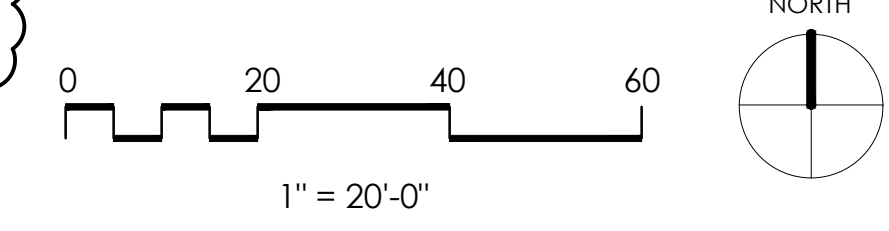
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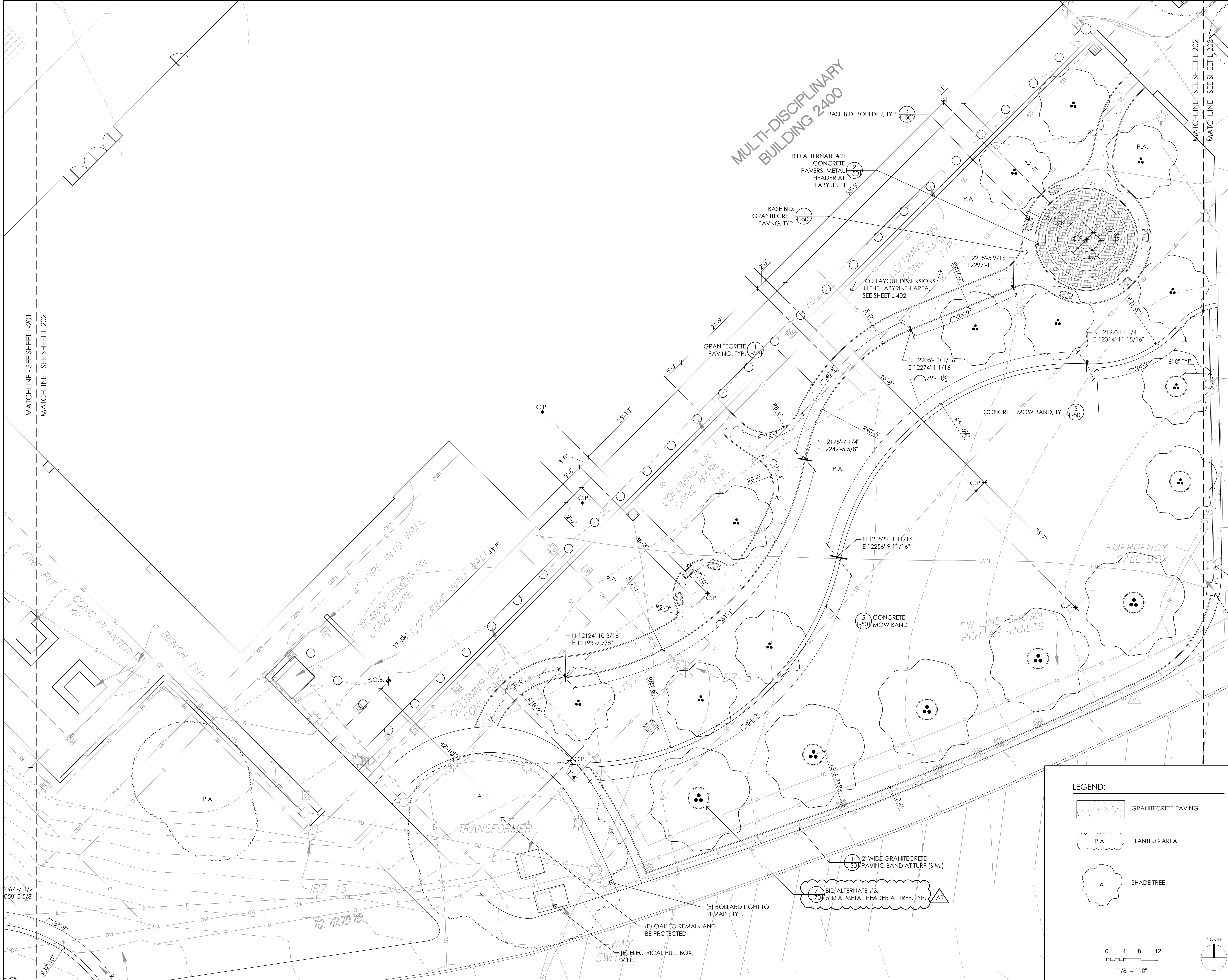
L-102

PROJECT NO.
22202

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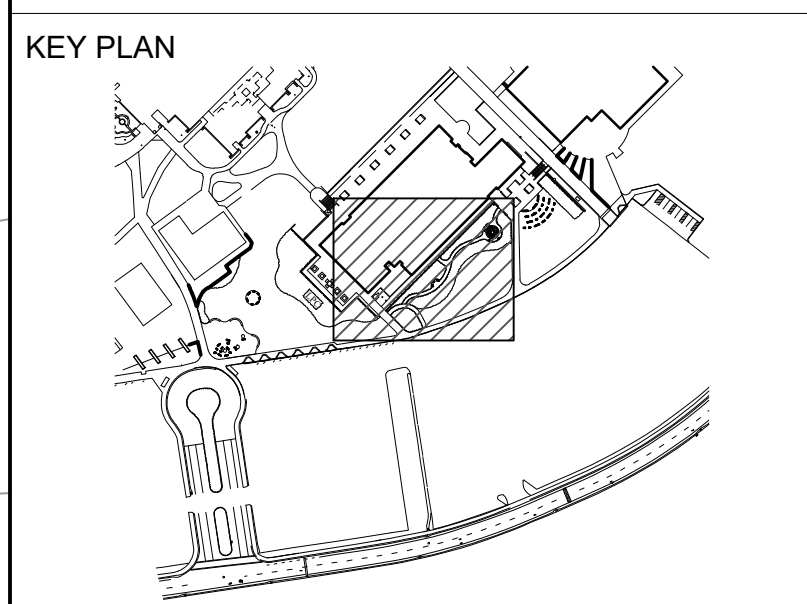
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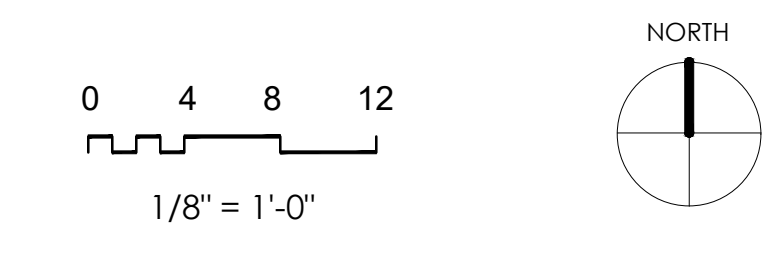
CLPCCD - LAS POSITAS COLLEGE LANDSCAPE RENOVATION
3000 CAMPUS HILL DRIVE, LIVERMORE, CA 94551



Date	Issue
01/19/2023	BID SET
02/21/2023	ADDENDUM 1

LEGEND:

- GRANITECRETE PAVING
- P.A. PLANTING AREA
- SHADE TREE



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LAYOUT PLAN

SHEET NO.

L-202

PROJECT NO.
22202

SCALE
1/8" = 1'-0"

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MATCHLINE - SEE SHEET L-201
MATCHLINE - SEE SHEET L-202

MATCHLINE - SEE SHEET L-202
MATCHLINE - SEE SHEET L-203

MULTI-DISCIPLINARY BUILDING 2400

BID ALTERNATE #2:
CONCRETE PAVERS, METAL HEADER AT LABYRINTH

BASE BID: GRANITECRETE PAVING, TYP.

GRANITECRETE PAVING, TYP.

FOR LAYOUT DIMENSIONS IN THE LABYRINTH AREA, SEE SHEET L-402

CONCRETE MOW BAND, TYP.

FW LINE SHOWN PER AS-BUILTS

EMERGENCY CALL BOX

N 12124-10 3/16"
E 12193-7 7/8"

N 12152-11 1/16"
E 12256-9 11/16"

N 12205-10 1/16"
E 12274-1 1/16"

N 12215-5 9/16"
E 12297-11"

N 12197-11 1/4"
E 12314-11 15/16"

N 12175-7 1/4"
E 12249-5 5/8"

1' WIDE GRANITECRETE PAVING BAND AT TURF (SIM.)

BID ALTERNATE #3:
5' DIA. METAL HEADER AT TREE, TYP.

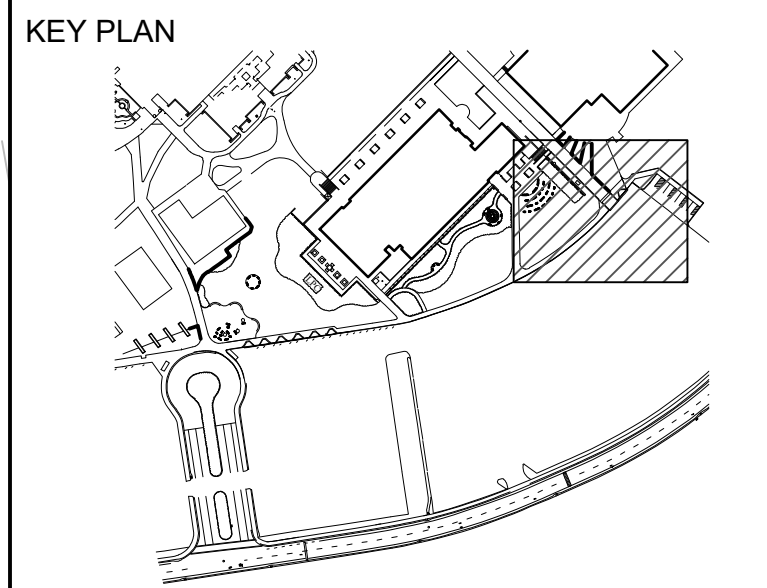
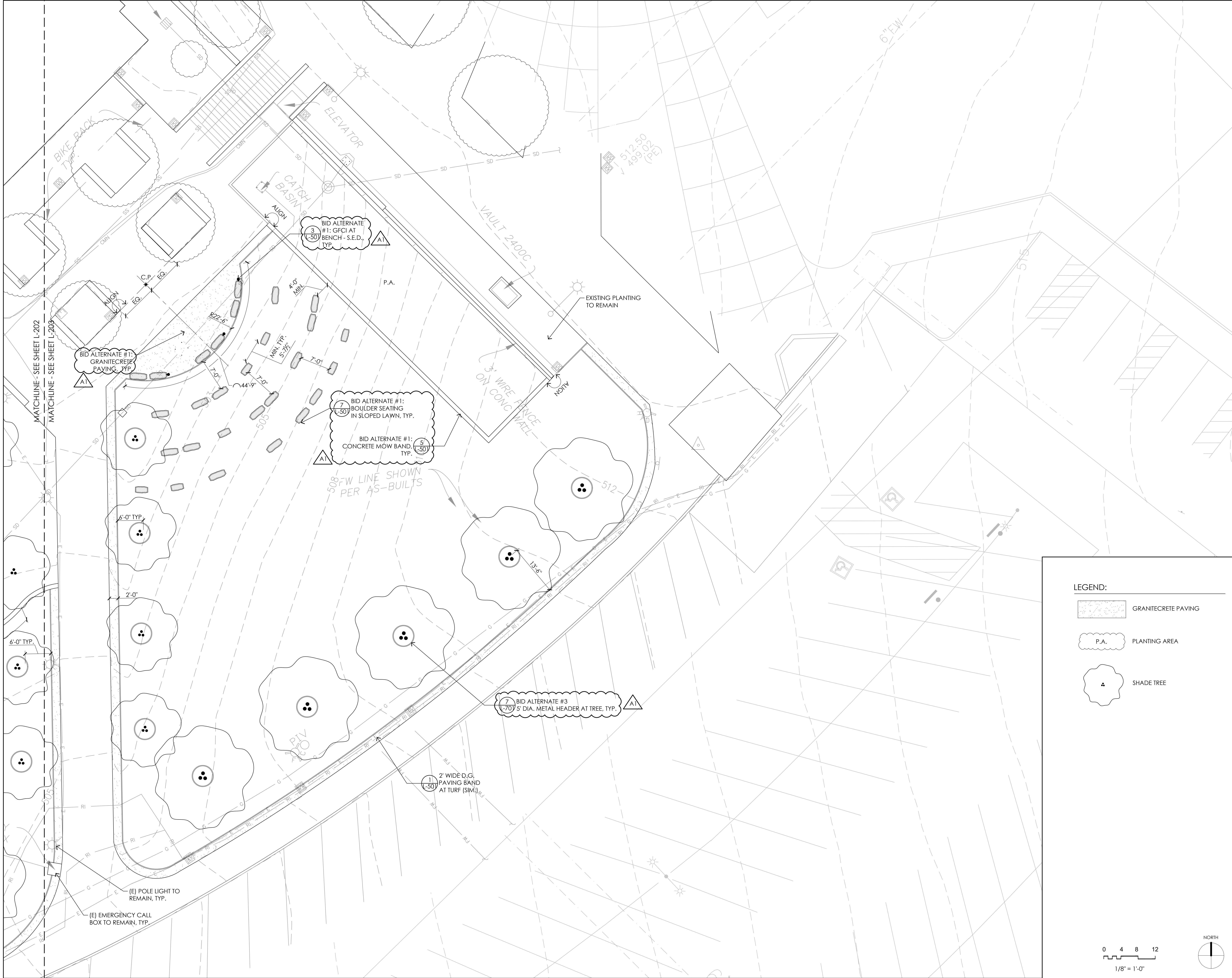
(E) BOLLARD LIGHT TO REMAIN, TYP.
(E) OAK TO REMAIN AND BE PROTECTED
(E) ELECTRICAL PULL BOX, W.I.F.

2047-7 1/2"
058-3 5/8"

IR7-13

5' WAY SWITCH

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LEGEND:

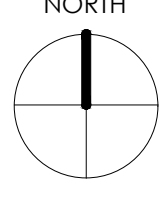
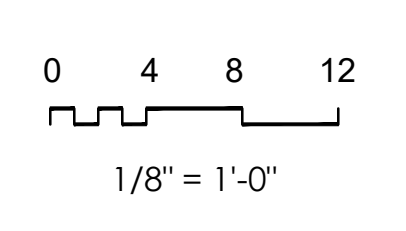
- GRANITECRETE PAVING
- P.A. PLANTING AREA
- SHADE TREE



Date	Issue
01/19/2023	BID SET
02/21/2023	ADDENDUM 1

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LAYOUT PLAN

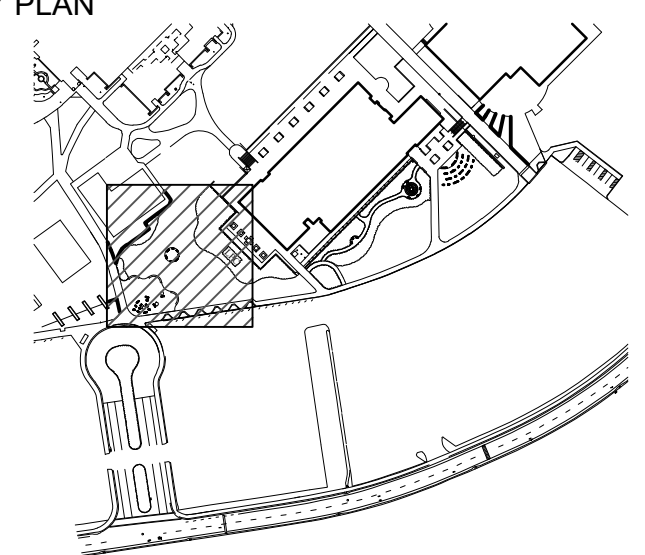
SHEET NO.
L-203



PROJECT NO.
22202
SCALE
1/8" = 1'-0"
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KEY PLAN



**CLPCCD - LAS POSITAS
COLLEGE
LANDSCAPE
RENOVATION
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Date	Issue
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GRADING PLAN

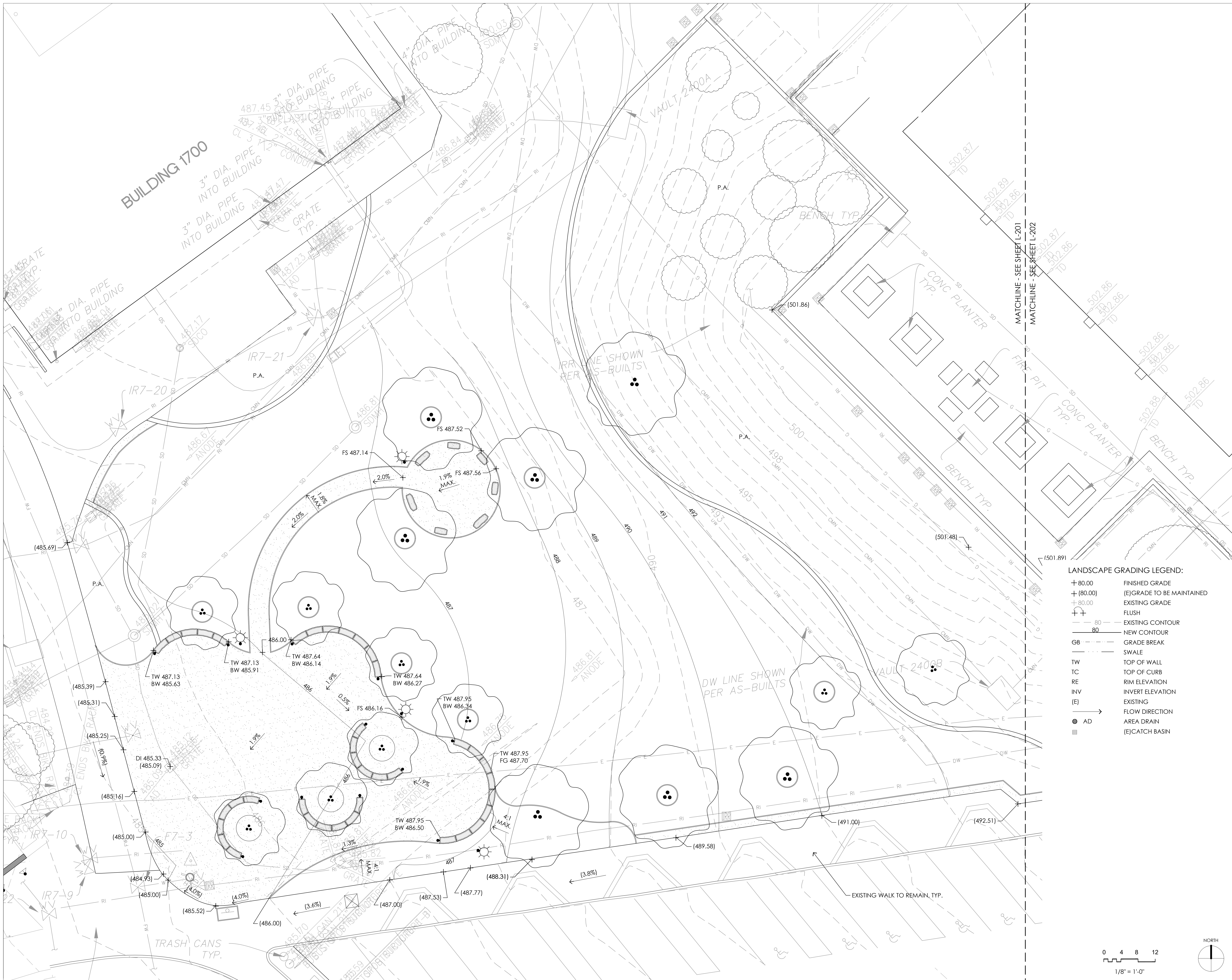
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L-301

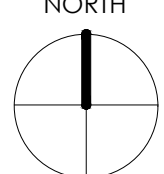
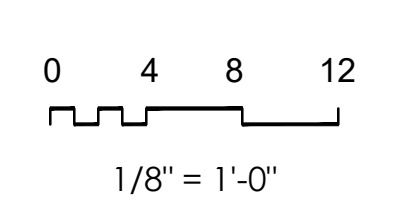
PROJECT NO.
22202

SCALE
1/8" = 1'-0"

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SH



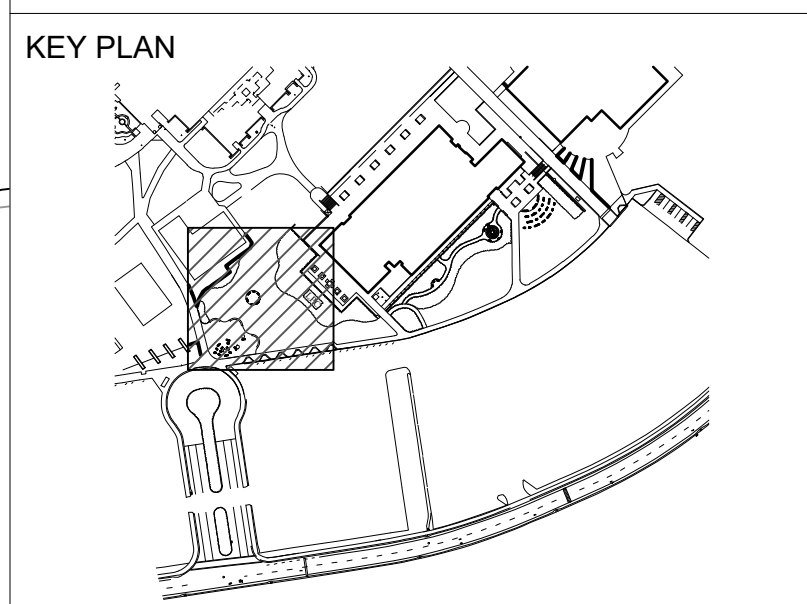
- LANDSCAPE GRADING LEGEND:**
- + 80.00 FINISHED GRADE
 - + (80.00) (E) GRADE TO BE MAINTAINED
 - + 80.00 EXISTING GRADE
 - FLUSH
 - 80 EXISTING CONTOUR
 - 80 NEW CONTOUR
 - GB GRADE BREAK
 - SWALE
 - TW TOP OF WALL
 - TC TOP OF CURB
 - RE RIM ELEVATION
 - INV INVERT ELEVATION
 - (E) EXISTING
 - FLOW DIRECTION
 - AD AREA DRAIN
 - (E) CATCH BASIN





AUTHORITY APPROVAL

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Landscape Architecture
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Oakland, California, 94612
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www.kellermitchell.com



CLPCCD - LAS POSITAS COLLEGE
LANDSCAPE RENOVATION
3000 CAMPUS HILL DRIVE,
LIVERMORE, CA 94551



Date	Issue
01/19/2023	BID SET

DRAWING TITLE

DETAIL LAYOUT PLAN

SHEET NO.

L-401

PROJECT NO.
22202

SCALE
1/4" = 1'-0"

DRAWN BY
SH

LEGEND:

- GRANITECRETE PAVING
- D.G. PAVING
- PLANTING AREA
- SHADE TREE
- GRANITE BENCH
- CURVED GRANITE BENCH

0 4 8 12
1/4" = 1'-0"

NORTH



- PLANTING NOTES:
1. REMOVE COMPACTED SOIL AROUND BUILDING IN AREAS TO BE PLANTED.
 2. SUBMIT SOIL AND SOIL AMENDMENT TEST REPORT FOR ARCHITECT'S REVIEW PRIOR TO PURCHASE OF PLANTS.
 3. REMOVE ALL LIME TREATED SOIL IN ALL PLANT AREAS TO A DEPTH OF THREE FEET AND DISPOSE OF OFF SITE.
 4. ALL PLANTING AREAS TO BE SHEET MULCHED.
 5. FURNISH ALL NEW PLANTING AREAS WITH WOOD CHIP MULCH 3" DEEP OVER WEED BARRIER FABRIC.
 6. INSTALL ROOT BARRIER AROUND PAVING EDGE OF ALL NEW TREES PLANTED WITHIN 5' OF PAVING. DO NOT WRAP ROOT BARRIER AROUND ROOTBALL.
 7. ALL NEW PLANTING AREAS SHALL RECEIVE AUTOMATIC IRRIGATION. SEE IRRIGATION SHEETS.
 8. DO NOT PLANT NEW TREES DIRECTLY ABOVE UNDERGROUND SITE UTILITY LINES AND PIPING.

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KEY PLAN

CLPCCD - LAS POSITAS COLLEGE
LANDSCAPE RENOVATION
3000 CAMPUS HILL DRIVE,
LIVERMORE, CA 94551

LICENSED LANDSCAPE ARCHITECT
AMY C. CUPPLES
4488
09/08/22
8/31/2023
STATE OF CALIFORNIA

Date	Issue
01/19/2023	BID SET

DRAWING TITLE

PLANTING PLAN

SHEET NO.

L-601

PROJECT NO.
22202

SCALE
1/8" = 1'-0"

DRAWN BY
SH

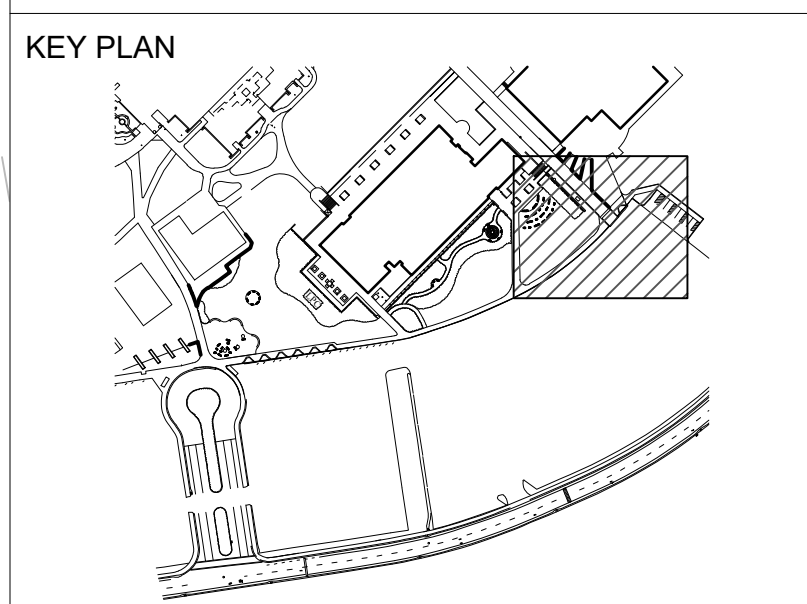
1/8" = 1'-0"



AUTHORITY APPROVAL

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**CLPCCD - LAS POSITAS
COLLEGE
LANDSCAPE
RENOVATION**
3000 CAMPUS HILL DRIVE,
LIVERMORE, CA 94551



Date	Issue
01/19/2023	BID SET

DRAWING TITLE

PLANTING PLAN

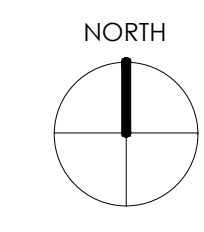
SHEET NO.

L-603

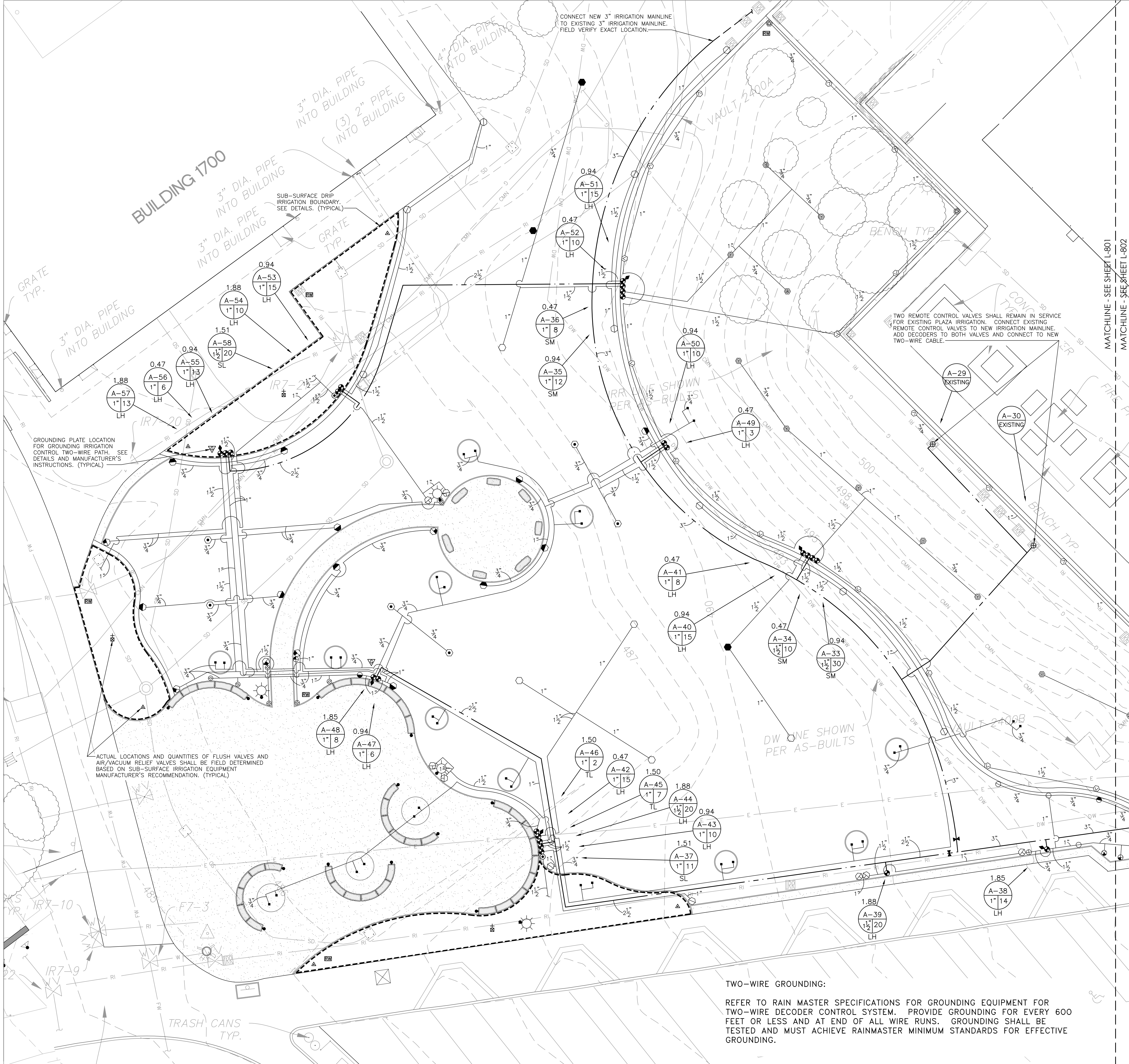
PROJECT NO.
22202

SCALE
1/8" = 1'-0"

DRAWN BY
SH



1/8" = 1'-0"



COMMISSIONING AND MANAGEMENT OF SUB-SURFACE DRIP IRRIGATION SYSTEMS

1. PRIOR TO PLANTING, CONTRACTOR SHALL PREPARE SOIL FOR PLANTING BY HAND WATERING TO BRING SOIL MOISTURE CONTENT UP TO AN IDEAL GROWING CONDITION THROUGHOUT THE INTENDED ROOT ZONE. OPERATE SUB-SURFACE DRIP SYSTEM AS NECESSARY TO MAINTAIN MOISTURE LEVEL IN SOIL. DO NOT LET SOIL DRY OUT. MOISTURE DEPLETION SHOULD NOT EXCEED 20% DEPLETION (80% OF DESIRED MOISTURE CONTENT REMAINS). CONTRACTOR SHALL MONITOR MOISTURE CONTENT TO ENSURE DESIRED MOISTURE CONTENT IS MAINTAINED WITHOUT OVER-SATURATION. USE CARE TO NOT DAMAGE SUB-SURFACE DRIP TUBING WHEN PROBING SOIL FOR MOISTURE CONTENT TESTING.
2. INSTALL TUBING ACCORDING TO SPACING SPECIFIED IN THE DRAWINGS AND DETAILS. DRIP TUBING MUST REMAIN AS CLOSE AS POSSIBLE TO THE SPACING IDENTIFIED IN THE DRAWINGS. THE GRID OF EMITTERS ARE INTENDED TO IRRIGATE THE ENTIRE PLANTED AREA (NOT INDIVIDUAL PLANTS). LIKEWISE, DO NOT MOVE PLANTS FROM THEIR DESIGNED SPACING TO BE CLOSER TO AN EMITTER. WHEN PROPERLY MANAGED, THE DRIP SYSTEM WILL PROVIDE WATER TO THE ENTIRE PLANTED AREA, CREATING AN INVITING CONDITION FOR THE ROOTS TO GROW AND THE PLANTS TO THRIVE.

AUTHORITY APPROVAL

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KEY PLAN

CLPCCD - LAS POSITAS COLLEGE LANDSCAPE RENOVATION
3000 CAMPUS HILL DRIVE,
LIVERMORE, CA 94551



Date	Issue
01/19/2023	BID SET

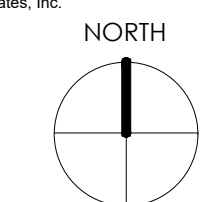
DRAWING TITLE

IRRIGATION PLAN

SHEET NO.

L-801

DICKSON & ASSOCIATES, INC.
LANDSCAPE IRRIGATION
(530) 547-5515 www.dicksoninc.net
P.O. BOX 415
PALO CEDRO, CALIFORNIA 96073
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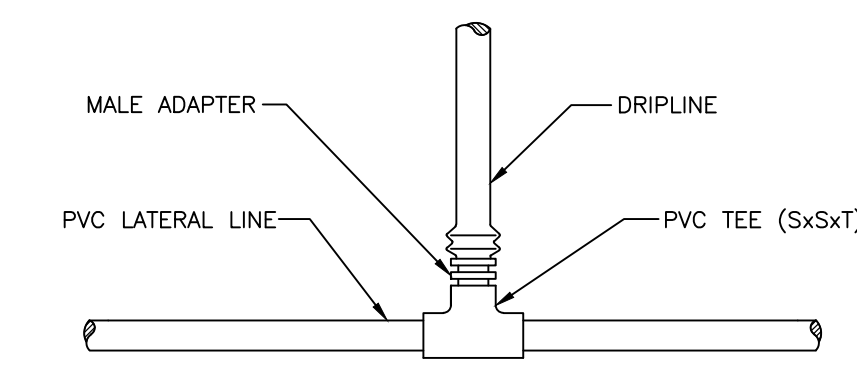


PROJECT NO.
22202

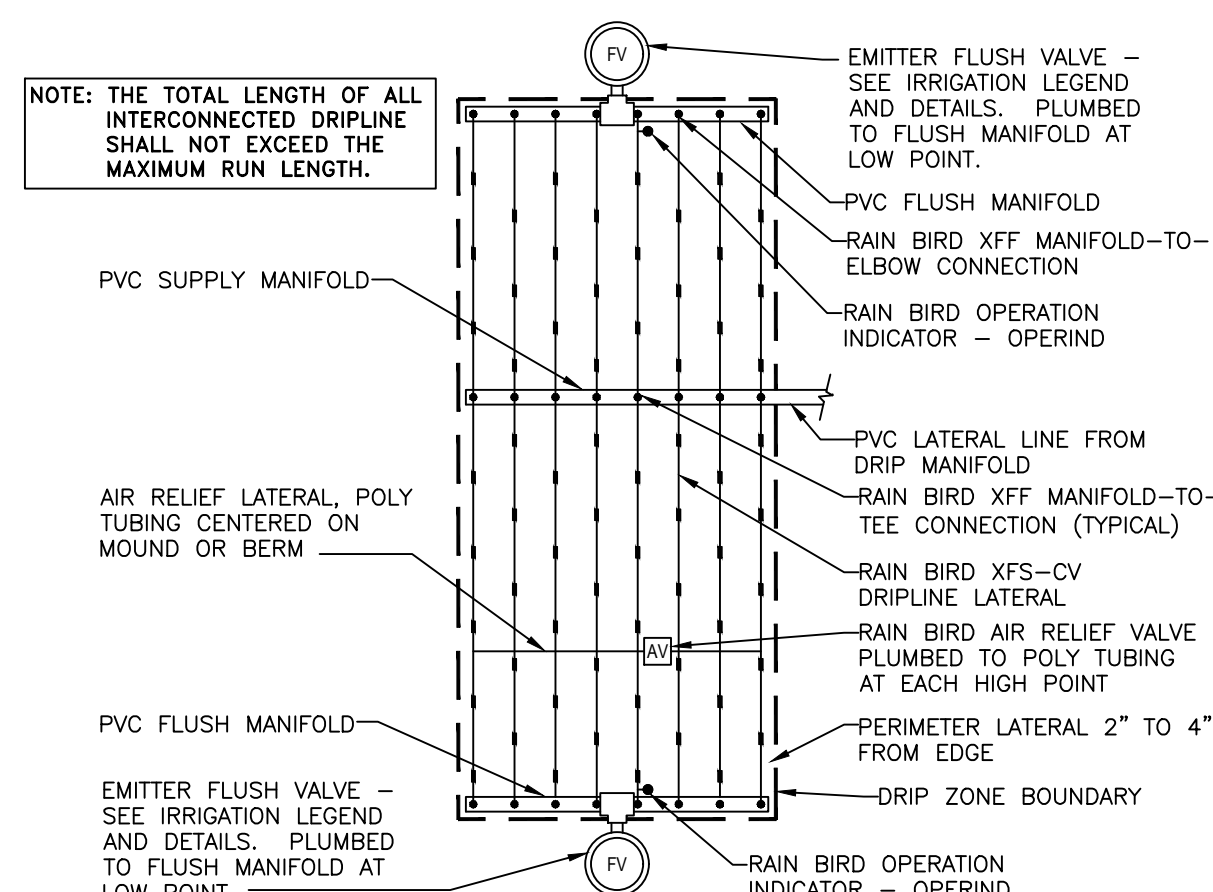
SCALE 1/8" = 1'-0" DRAWN BY SH

TWO-WIRE GROUNDING:
REFER TO RAIN MASTER SPECIFICATIONS FOR GROUNDING EQUIPMENT FOR TWO-WIRE DECODER CONTROL SYSTEM. PROVIDE GROUNDING FOR EVERY 600 FEET OR LESS AND AT END OF ALL WIRE RUNS. GROUNDING SHALL BE TESTED AND MUST ACHIEVE RAINMASTER MINIMUM STANDARDS FOR EFFECTIVE GROUNDING.

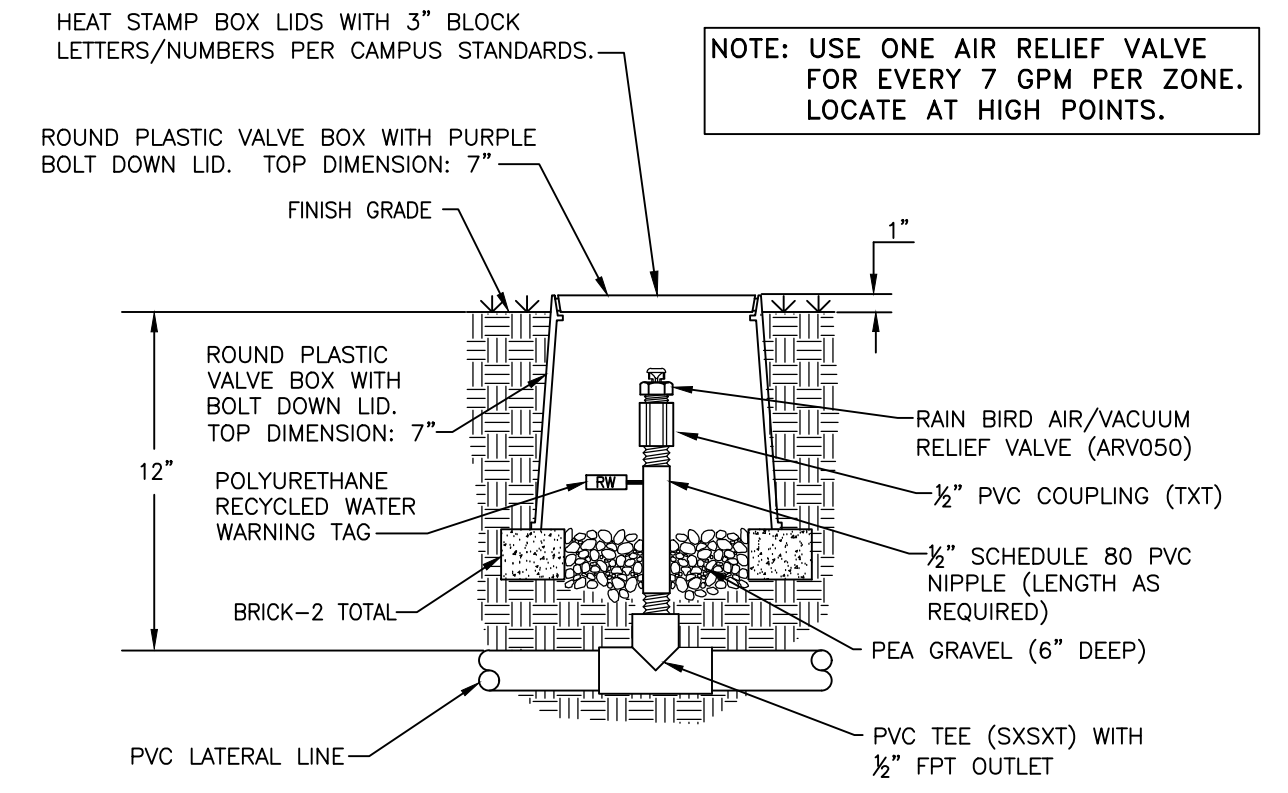
1/8" = 1'-0"



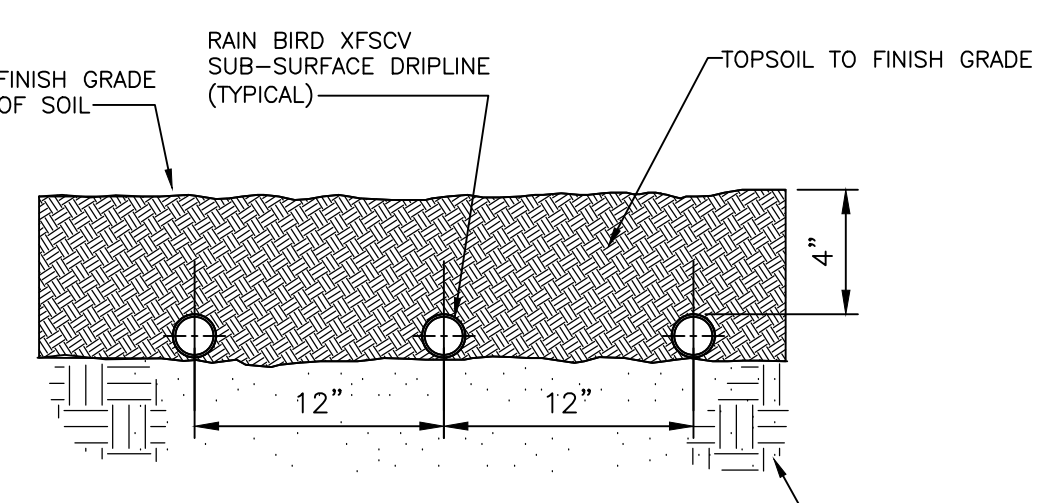
11 DRIPLINE TO PVC CONNECTION NOT TO SCALE



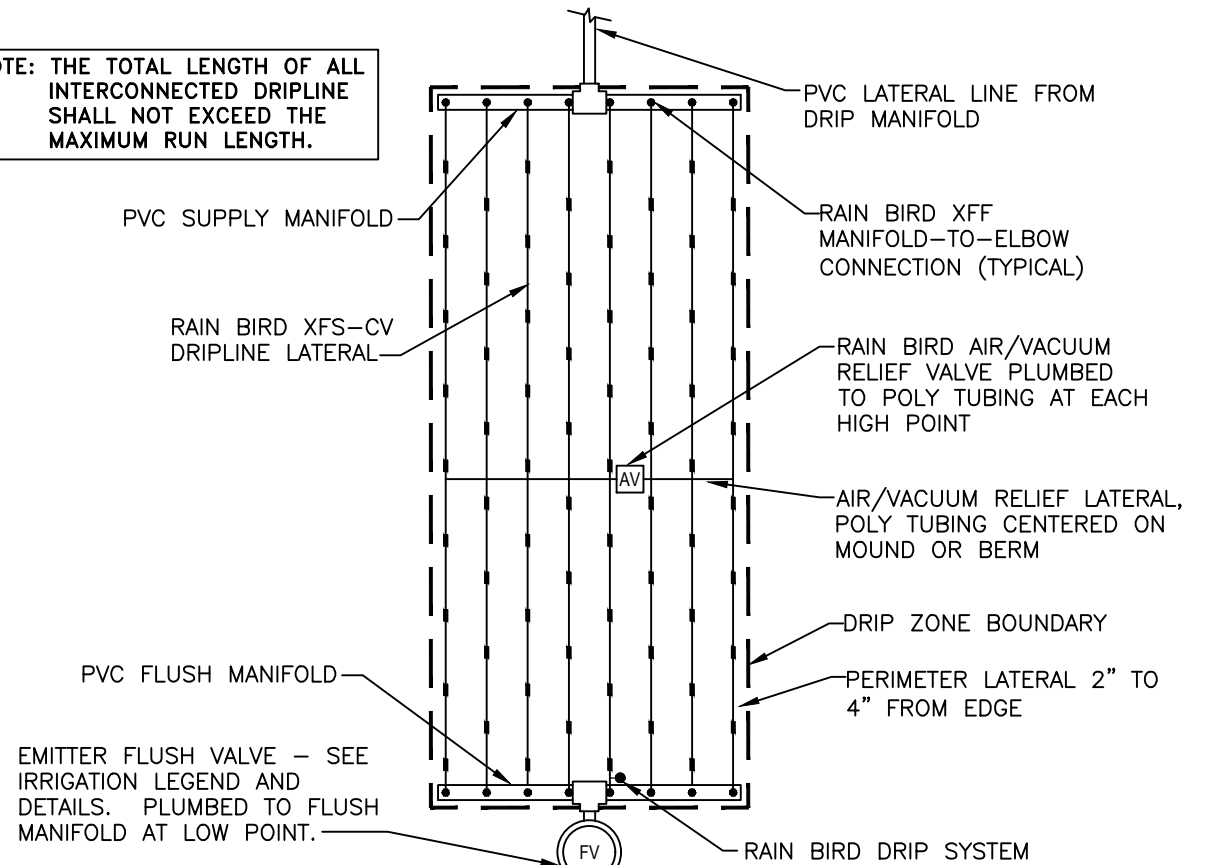
6 CENTER FEED LAYOUT FOR SUB-SURFACE DRIP NOT TO SCALE



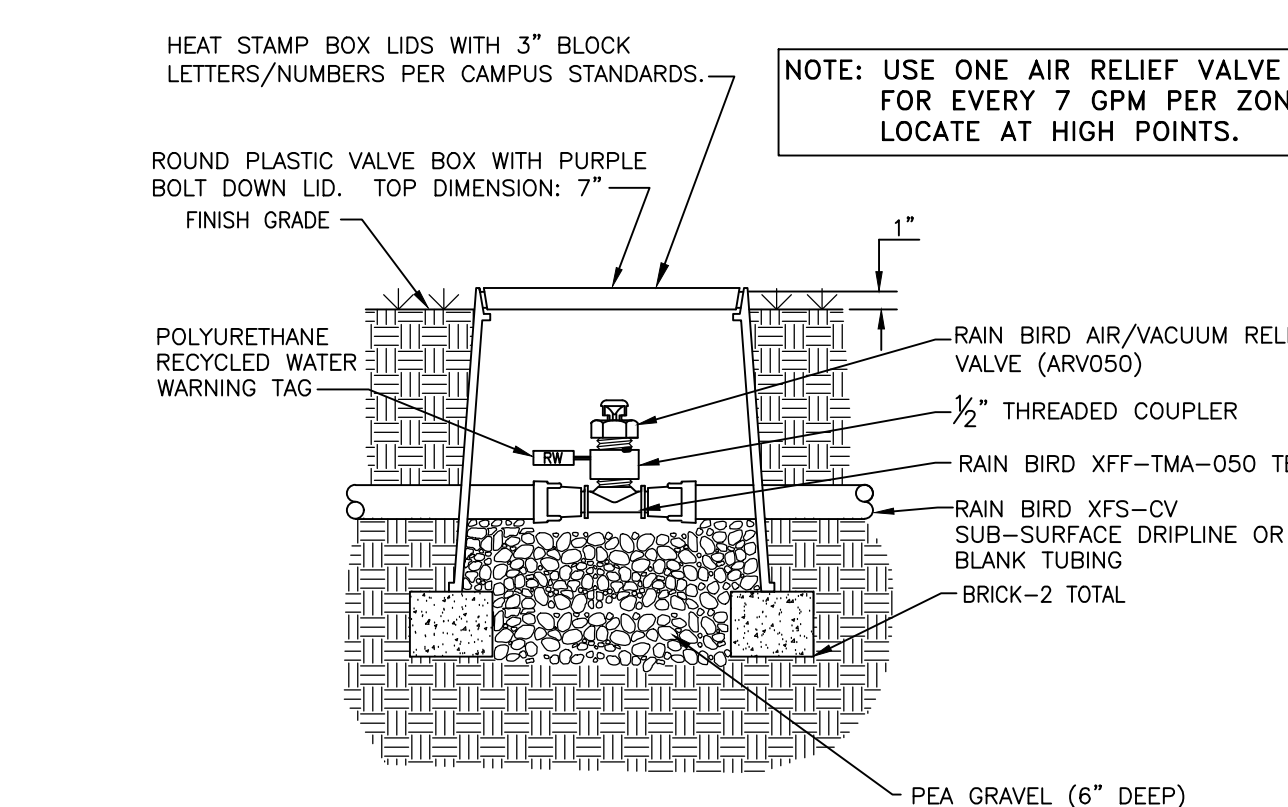
1 AIR/VACUUM RELIEF VALVE AT PVC LATERAL NOT TO SCALE



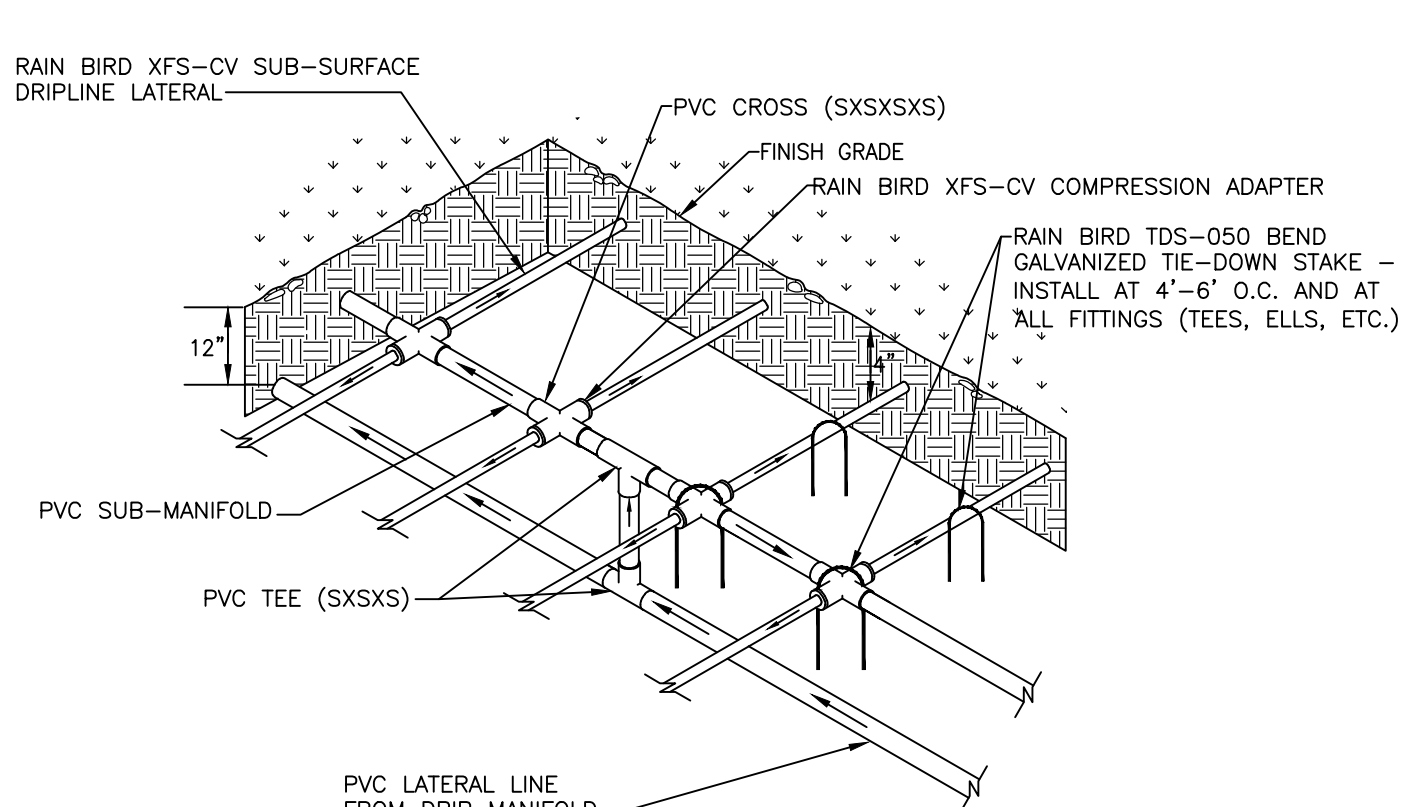
12 DRIPLINE SUB-SURFACE INSTALLATION 12\"/>



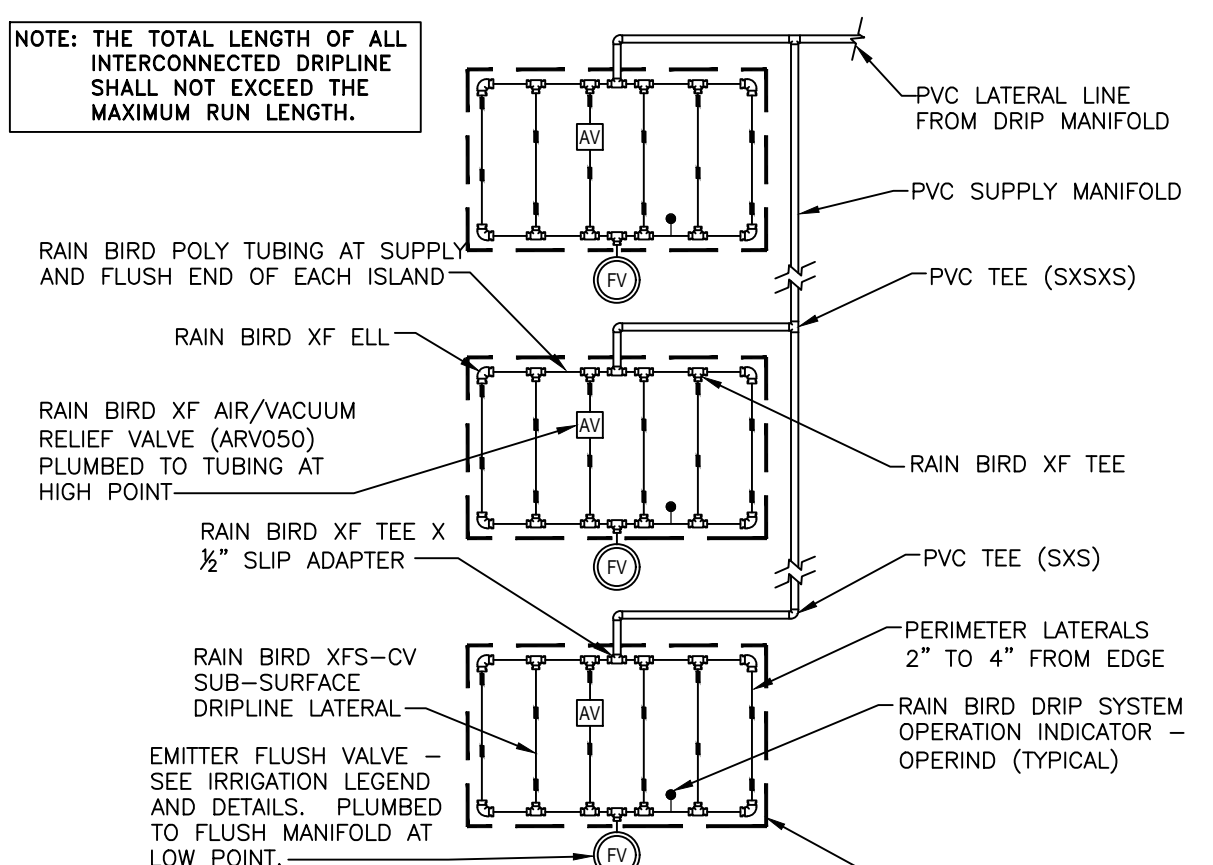
7 END FEED LAYOUT FOR SUB-SURFACE DRIP NOT TO SCALE



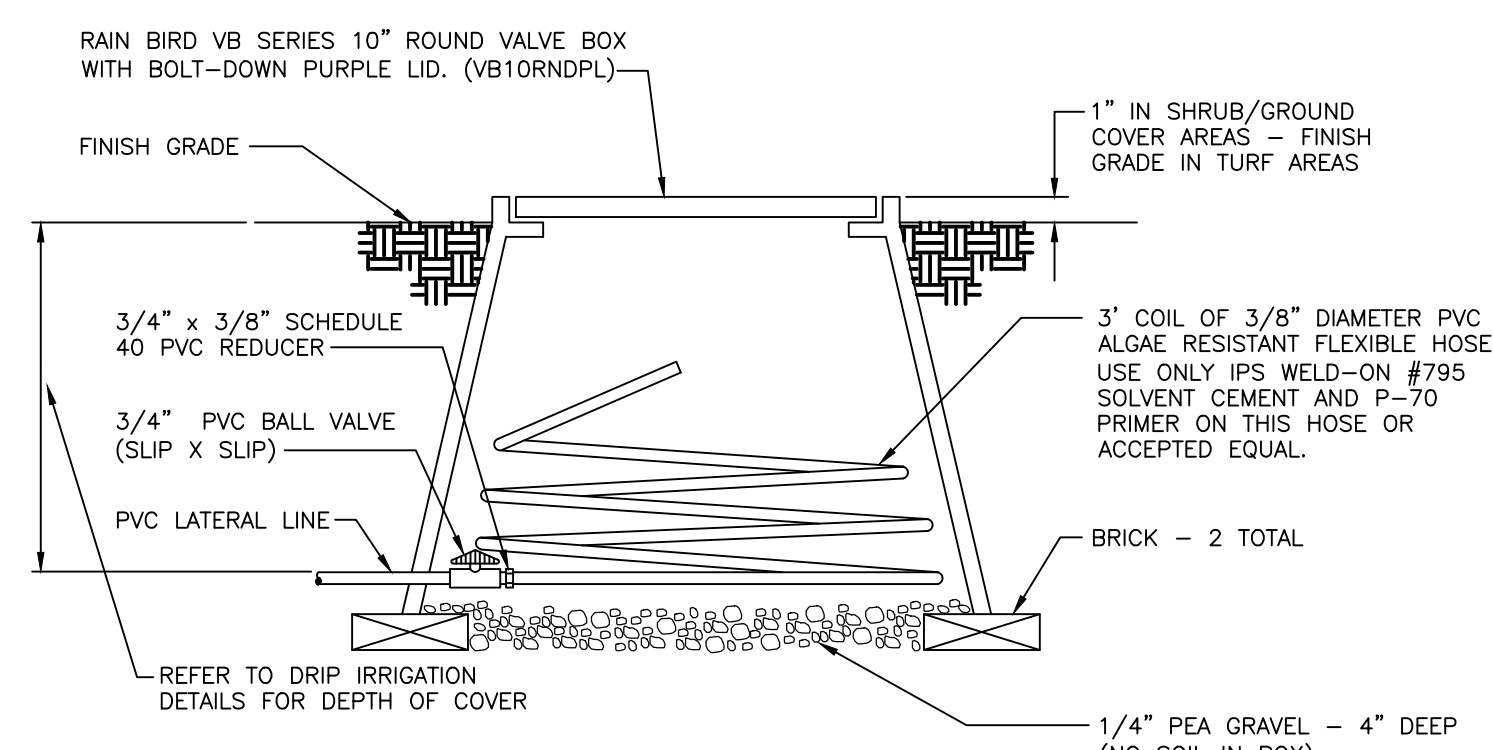
2 AIR/VACUUM RELIEF VALVE AT DRIPLINE PIPE NOT TO SCALE



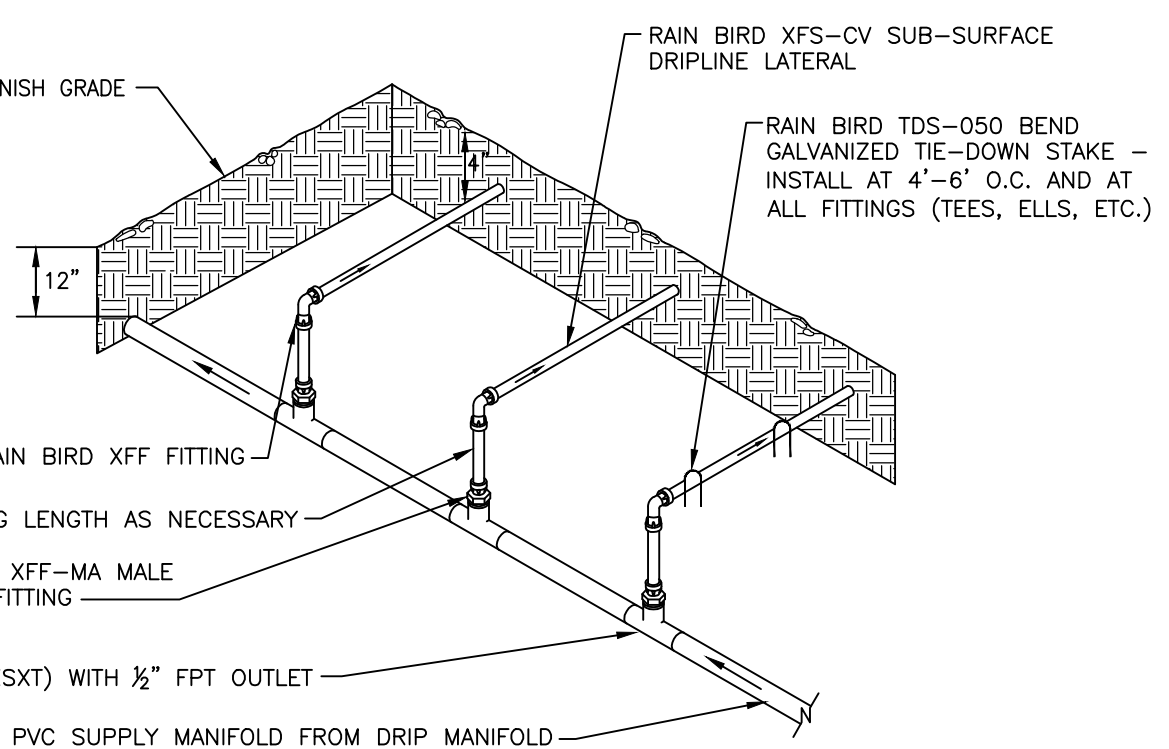
13 SUB-MANIFOLD CENTER FEED NOT TO SCALE



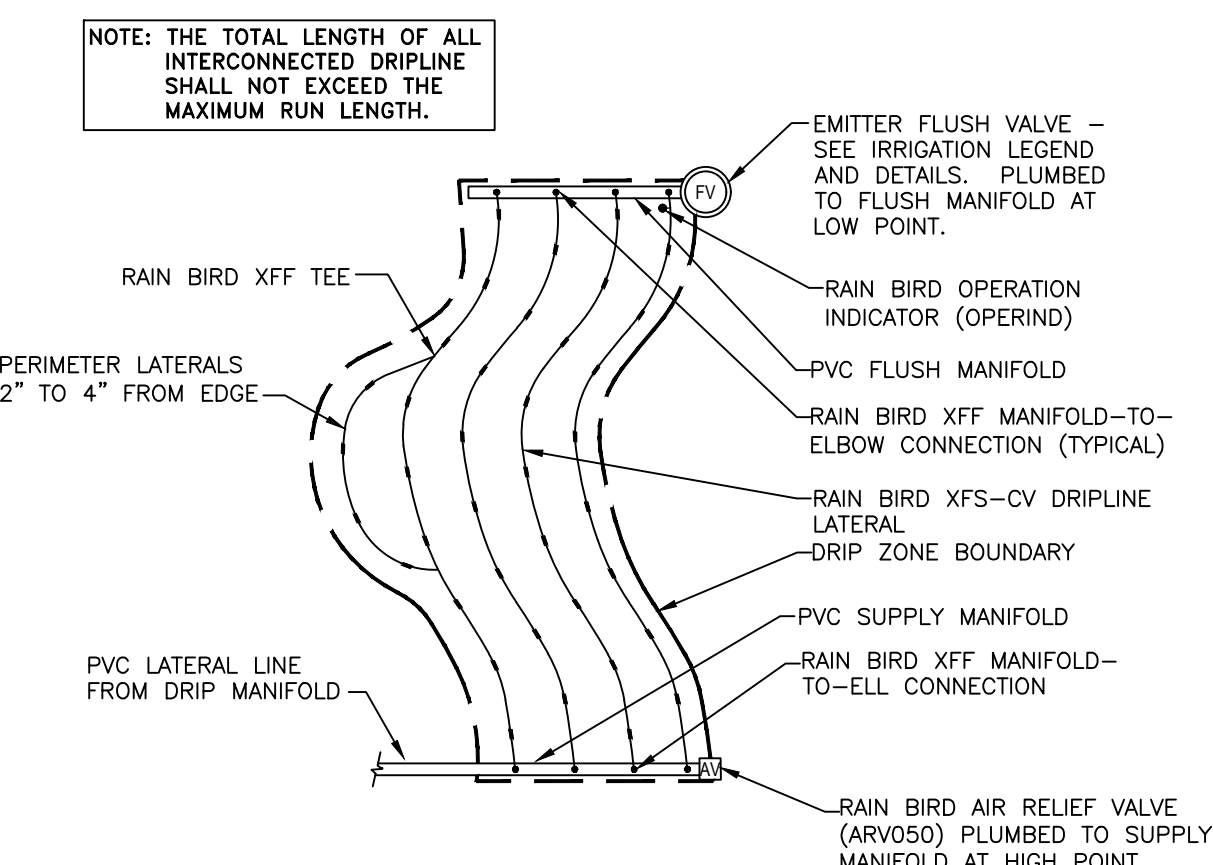
8 ISLAND LAYOUT FOR SUB-SURFACE DRIP NOT TO SCALE



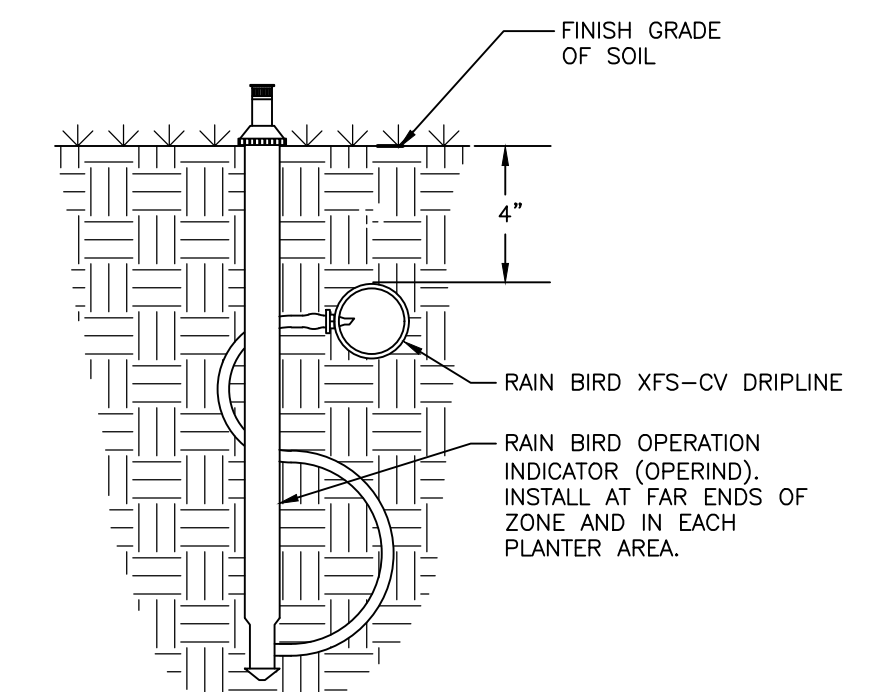
3 DRIPLINE FLUSH VALVE NOT TO SCALE



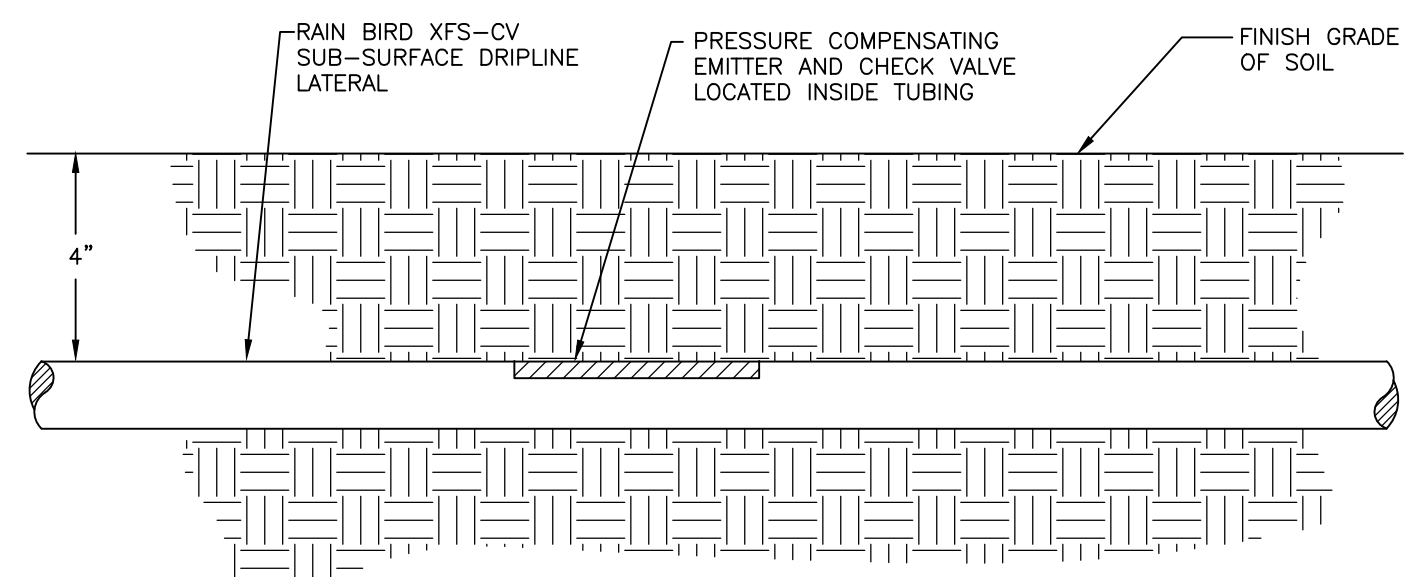
14 MANIFOLD END FEED NOT TO SCALE



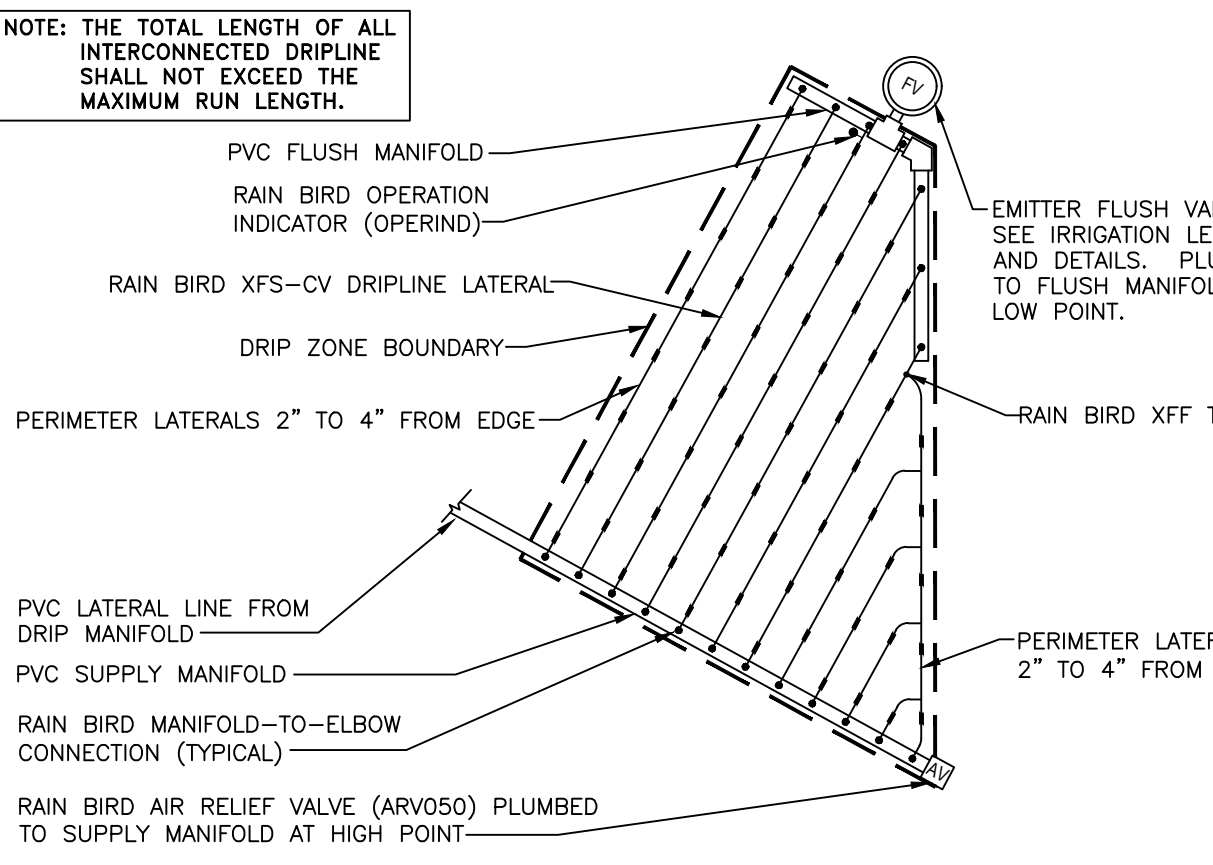
9 ODD CURVES LAYOUT FOR SUB-SURFACE DRIP NOT TO SCALE



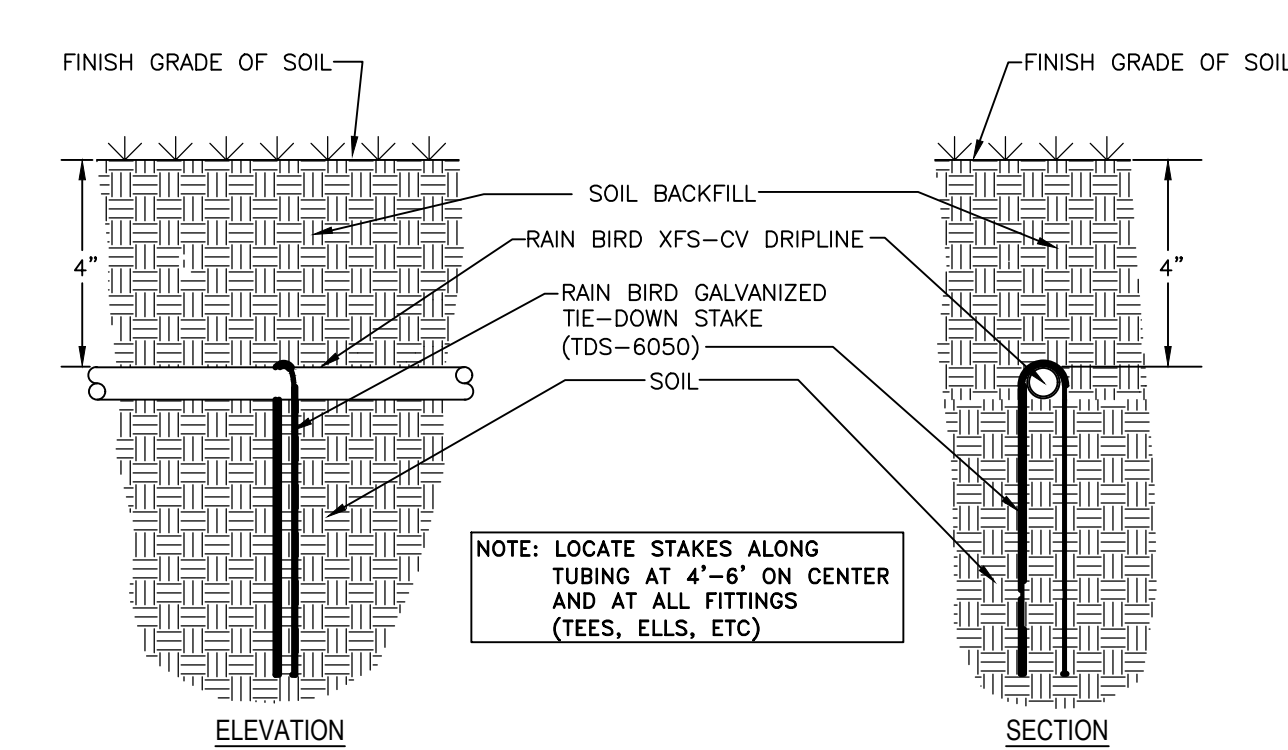
4 POP-UP OPERATION INDICATOR NOT TO SCALE



15 DRIPLINE DEPTH NOT TO SCALE



10 TRIANGULAR LAYOUT FOR SUB-SURFACE DRIP NOT TO SCALE



5 GALVANIZED TIE-DOWN STAKE NOT TO SCALE

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KEY PLAN

CLPCCD - LAS POSITAS COLLEGE LANDSCAPE RENOVATION
3000 CAMPUS HILL DRIVE, LIVERMORE, CA 94551



Date	Issue
01/19/2023	BID SET

DRAWING TITLE
IRRIGATION DETAILS

SHEET NO.
L-902

PROJECT NO. 22202
SCALE NTS
DRAWN BY SH

DICKSON & ASSOCIATES, INC. LANDSCAPE IRRIGATION
(830) 547-8518 www.dicksoninc.net
P.O. BOX 419
PALO CEDRO, CALIFORNIA 96073
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IRRIGATION WATERING SCHEDULES

POP-UP FULL CIRCLE (360°) ROTARY SPRINKLER IRRIGATION FOR HIGH WATER-USE TURF														
SPRINKLER MANUFACTURER		HUNTER		LOCATION:		LIVERMORE, CALIFORNIA								
PRECIPITATION RATE (INCHES/HOUR):		0.47		HEAD SPACING:		VARIES								
IRRIGATION SYSTEM EFFICIENCY		0.75		HEAD FLOW:		5 GPM								
PLANT FACTOR:		0.80												
YEAR 2 REDUCTION AMOUNT:		-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES												
MONTH:		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):		1.20	1.50	2.90	4.40	5.90	6.60	7.40	6.40	5.30	3.20	1.50	0.90	47.20
ETO PER WEEK (INCHES):		0.277	0.346	0.670	1.016	1.363	1.524	1.709	1.478	1.224	0.739	0.346	0.208	
APPLIED ETO PER WEEK (INCHES):		0.296	0.370	0.714	1.084	1.453	1.626	1.823	1.577	1.306	0.788	0.370	0.222	
MINUTES OF WATER PER WEEK:		YEAR 1	38	47	91	138	186	208	233	201	167	101	47	28
PER WEEK:		YEAR 2	34	42	82	125	167	187	209	181	150	91	42	25
DAYS PER WEEK:		YEAR 1	1	1	2	2	2	2	2	2	1	1	1	1
PER WEEK:		YEAR 2	1	1	2	2	2	2	2	2	1	1	1	1
MINUTES OF WATER PER DAY:		YEAR 1	38	47	46	69	93	104	116	101	83	101	47	28
PER DAY:		YEAR 2	34	42	41	62	83	93	105	91	75	91	42	25
CYCLES PER DAY:		YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1
PER DAY:		YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1
MINUTES PER CYCLE:		YEAR 1	38	47	46	69	93	104	116	101	83	101	47	28
PER CYCLE:		YEAR 2	34	42	41	62	83	93	105	91	75	91	42	25

POP-UP PART CIRCLE (180°) ROTARY SPRINKLER IRRIGATION FOR HIGH WATER-USE TURF														
SPRINKLER MANUFACTURER		HUNTER		LOCATION:		LIVERMORE, CALIFORNIA								
PRECIPITATION RATE (INCHES/HOUR):		0.94		HEAD SPACING:		VARIES								
IRRIGATION SYSTEM EFFICIENCY		0.75		HEAD FLOW:		5 GPM								
PLANT FACTOR:		0.80												
YEAR 2 REDUCTION AMOUNT:		-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES												
MONTH:		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):		1.20	1.50	2.90	4.40	5.90	6.60	7.40	6.40	5.30	3.20	1.50	0.90	47.20
ETO PER WEEK (INCHES):		0.277	0.346	0.670	1.016	1.363	1.524	1.709	1.478	1.224	0.739	0.346	0.208	
APPLIED ETO PER WEEK (INCHES):		0.296	0.370	0.714	1.084	1.453	1.626	1.823	1.577	1.306	0.788	0.370	0.222	
MINUTES OF WATER PER WEEK:		YEAR 1	19	24	46	69	93	104	116	101	83	50	24	14
PER WEEK:		YEAR 2	17	21	41	62	83	93	105	91	75	45	21	13
DAYS PER WEEK:		YEAR 1	1	1	2	2	2	2	2	2	1	1	1	1
PER WEEK:		YEAR 2	1	1	2	2	2	2	2	2	1	1	1	1
MINUTES OF WATER PER DAY:		YEAR 1	19	24	23	35	46	52	58	50	42	50	24	14
PER DAY:		YEAR 2	17	21	21	31	42	47	52	45	38	45	21	13
CYCLES PER DAY:		YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1
PER DAY:		YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1
MINUTES PER CYCLE:		YEAR 1	19	24	23	35	46	52	58	50	42	50	24	14
PER CYCLE:		YEAR 2	17	21	21	31	42	47	52	45	38	45	21	13

POP-UP PART CIRCLE (90°) ROTARY SPRINKLER IRRIGATION FOR HIGH WATER-USE TURF														
SPRINKLER MANUFACTURER		HUNTER		LOCATION:		LIVERMORE, CALIFORNIA								
PRECIPITATION RATE (INCHES/HOUR):		1.88		HEAD SPACING:		VARIES								
IRRIGATION SYSTEM EFFICIENCY		0.75		HEAD FLOW:		5 GPM								
PLANT FACTOR:		0.80												
YEAR 2 REDUCTION AMOUNT:		-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES												
MONTH:		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):		1.20	1.50	2.90	4.40	5.90	6.60	7.40	6.40	5.30	3.20	1.50	0.90	47.20
ETO PER WEEK (INCHES):		0.277	0.346	0.670	1.016	1.363	1.524	1.709	1.478	1.224	0.739	0.346	0.208	
APPLIED ETO PER WEEK (INCHES):		0.296	0.370	0.714	1.084	1.453	1.626	1.823	1.577	1.306	0.788	0.370	0.222	
MINUTES OF WATER PER WEEK:		YEAR 1	9	12	23	35	46	52	58	50	42	25	12	7
PER WEEK:		YEAR 2	8	11	21	31	42	47	52	45	38	23	11	6
DAYS PER WEEK:		YEAR 1	1	1	2	2	2	2	2	2	1	1	1	1
PER WEEK:		YEAR 2	1	1	2	2	2	2	2	2	1	1	1	1
MINUTES OF WATER PER DAY:		YEAR 1	9	12	11	17	23	26	29	25	21	25	12	7
PER DAY:		YEAR 2	8	11	10	16	21	23	26	23	19	23	11	6
CYCLES PER DAY:		YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1
PER DAY:		YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1
MINUTES PER CYCLE:		YEAR 1	9	12	11	17	23	26	29	25	21	25	12	7
PER CYCLE:		YEAR 2	8	11	10	16	21	23	26	23	19	23	11	6

SUB-SURFACE DRIP IRRIGATION FOR LOW WATER-USE SHRUBS/GROUND COVER														
SPRINKLER MANUFACTURER		RAIN BIRD		LOCATION:		LIVERMORE, CALIFORNIA								
PRECIPITATION RATE (INCHES/HOUR):		1.51		EMITTER SPACING:		VARIES								
IRRIGATION SYSTEM EFFICIENCY		0.81		EMITTER FLOW:		0.92 GPH								
PLANT FACTOR:		0.30												
YEAR 2 REDUCTION AMOUNT:		-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES												
MONTH:		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):		1.20	1.50	2.90	4.40	5.90	6.60	7.40	6.40	5.30	3.20	1.50	0.90	47.20
ETO PER WEEK (INCHES):		0.277	0.346	0.670	1.016	1.363	1.524	1.709	1.478	1.224	0.739	0.346	0.208	
APPLIED ETO PER WEEK (INCHES):		0.103	0.128	0.248	0.376	0.505	0.565	0.633	0.547	0.453	0.274	0.128	0.077	
MINUTES OF WATER PER WEEK:		YEAR 1	4	5	10	15	20	22	25	22	18	11	5	3
PER WEEK:		YEAR 2	4	5	9	13	18	20	23	20	16	10	5	3
DAYS PER WEEK:		YEAR 1	1	1	2	2	3	3	3	3	2	1	1	1
PER WEEK:		YEAR 2	1	1	2	2	3	3	3	3	2	1	1	1
MINUTES OF WATER PER DAY:		YEAR 1	4	5	5	7	7	8	7	6	5	5	3	3
PER DAY:		YEAR 2	4	5	4	7	6	7	8	7	5	5	3	3
CYCLES PER DAY:		YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1
PER DAY:		YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1
MINUTES PER CYCLE:		YEAR 1	4	5	5	7	7	8	7	6	5	5	3	3
PER CYCLE:		YEAR 2	4	5	4	7	6	7	8	7	5	5	3	3

SUB-SURFACE DRIP IRRIGATION FOR MODERATE WATER-USE SHRUBS/GROUND COVER														
SPRINKLER MANUFACTURER		RAIN BIRD		LOCATION:		LIVERMORE, CALIFORNIA								
PRECIPITATION RATE (INCHES/HOUR):		1.51		EMITTER SPACING:		VARIES								
IRRIGATION SYSTEM EFFICIENCY		0.81		EMITTER FLOW:		0.92 GPH								
PLANT FACTOR:		0.30												
YEAR 2 REDUCTION AMOUNT:		-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES												
MONTH:		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):		1.20	1.50	2.90	4.40	5.90	6.60	7.40	6.40	5.30	3.20	1.50	0.90	47.20
ETO PER WEEK (INCHES):		0.277	0.346	0.670	1.016	1.363	1.524	1.709	1.478	1.224	0.739	0.346	0.208	
APPLIED ETO PER WEEK (INCHES):		0.103	0.128	0.248	0.376	0.505	0.565	0.633	0.547	0.453	0.274	0.128	0.077	
MINUTES OF WATER PER WEEK:		YEAR 1	4	5	10	15	20	22	25	22	18	11	5	3
PER WEEK:		YEAR 2	4	5	9	13	18	20	23	20	16	10	5	3
DAYS PER WEEK:		YEAR 1	1	1	2	2	3	3	3	3	2	1	1	1
PER WEEK:		YEAR 2	1	1	2	2	3	3	3	3	2	1	1	1
MINUTES OF WATER PER DAY:		YEAR 1	4	5	5	7	7	8	7	6	5	5	3	3
PER DAY:		YEAR 2	4	5	4	7	6	7	8	7	5	5	3	3
CYCLES PER DAY:		YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1
PER DAY:		YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1
MINUTES PER CYCLE:		YEAR 1	4	5	5	7	7	8	7	6	5	5	3	3
PER CYCLE:		YEAR 2	4	5	4	7	6	7	8	7	5	5	3	3

POP-UP SPRAY IRRIGATION FOR HIGH WATER-USE LAWN														
SPRINKLER MANUFACTURER		RAIN BIRD		LOCATION:		LIVERMORE, CALIFORNIA								
PRECIPITATION RATE (INCHES/HOUR):		1.85		HEAD SPACING:		VARIES								
IRRIGATION SYSTEM EFFICIENCY		0.75		HEAD FLOW:		2 GPM								
PLANT FACTOR:		0.80												
YEAR 2 REDUCTION AMOUNT:		-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES												
MONTH:		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):		1.20	1.50	2.90	4.40	5.90	6.60	7.40	6.40	5.30	3.20	1.50	0.90	47.20
ETO PER WEEK (INCHES):		0.277	0.346	0.670	1.016	1.363	1.524	1.709	1.478	1.224	0.739	0.346	0.208	
APPLIED ETO PER WEEK (INCHES):		0.296	0.370	0.714	1.084	1.453	1.626	1.823	1.577	1.306	0.788	0.370	0.222	
MINUTES OF WATER PER WEEK:		YEAR 1	10	12	23	35	47	53	59	51	42	26	12	7
PER WEEK:		YEAR 2	9	11	21	32	42	47	53	46	38	23	11	6
DAYS PER WEEK:		YEAR 1	1	1	2	2	2	2	2	2	1	1	1	1
PER WEEK:		YEAR 2	1	1	2	2	2	2	2	2	1	1	1	1
MINUTES OF WATER PER DAY:		YEAR 1	10	12	12	18	24	26	30	26	21	26	12	7
PER DAY:		YEAR 2	9	11	10	16	21	24	27	23	19	23	11	6
CYCLES PER DAY:		YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1
PER DAY:		YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1
MINUTES PER CYCLE:		YEAR 1	10	12	12	18	24	26	30	26	21	26	12	7
PER CYCLE:		YEAR 2	9	11	10	16	21	24	27	23	19	23	11	6

POP-UP FULL CIRCLE (360°) ROTARY SPRINKLER IRRIGATION FOR LOW WATER-USE PLANTS														
SPRINKLER MANUFACTURER		HUNTER		LOCATION:		LIVERMORE, CALIFORNIA								
PRECIPITATION RATE (INCHES/HOUR):		0.47		HEAD SPACING:		VARIES								
IRRIGATION SYSTEM EFFICIENCY		0.75		HEAD FLOW:		2 GPM								
PLANT FACTOR:		0.30												
YEAR 2 REDUCTION AMOUNT:		-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES												
MONTH:		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL