

Addendum No: 02

Project:

SBCUSD Jefferson Hunt Elementary School

San Bernardino City Unified School District

Issue Date:

03/21/2024

To Drawings + **Specifications** dated

04/11/2024

Prepared By: PBK Architects, Inc.

8163 Rochester Ave

#100

Rancho Cucamonga, CA 91730

PBK Project No: 230432

NOTICE TO BIDDERS

Receipt of this Addendum shall be acknowledged on the Proposal Form. A.

- This Addendum forms part of the Contract documents for the above referenced B. project and shall beincorporated integrally therewith.
- Each bidder shall make necessary adjustments and submit his proposal with full C. knowledge of all modifications, clarifications, and supplemental data included therein. Where provisions of the following supplemental data differ from those of the original Contract Documents, this Addendum shall govern.

SPECIFICATIONS

Item No. 02.01: Not applicable.

DRAWINGS

Item No. 02.02: Sheet PD1.1: See clouded areas.

Item No. 02.03: Sheet P1.1: See clouded areas.

Item No. 02.04: Sheet P2.2: See clouded areas.

Item No. 02.05: Sheet P2.4: See clouded areas.

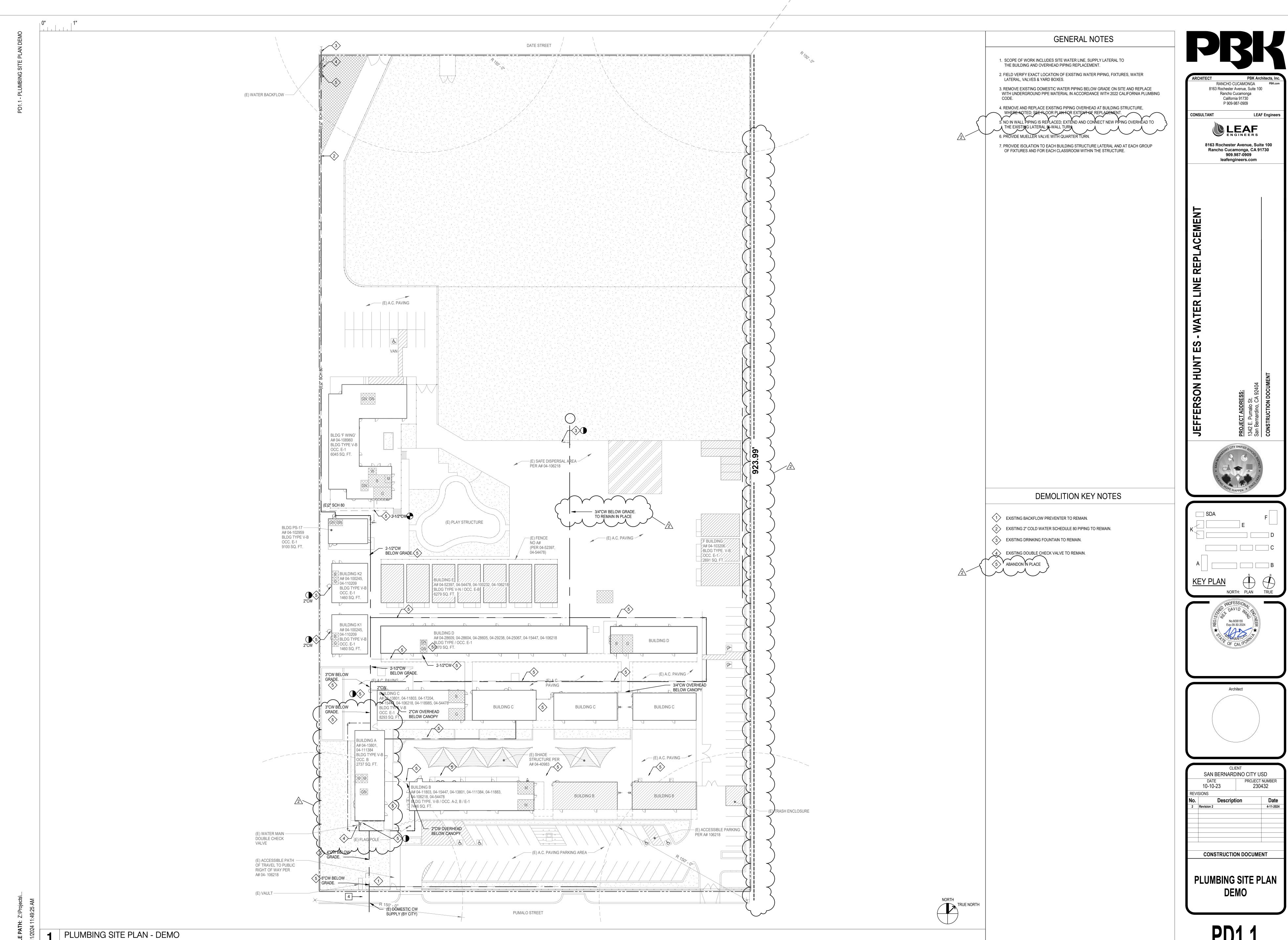
Item No. 02.06: Sheet P2.5: See clouded areas.

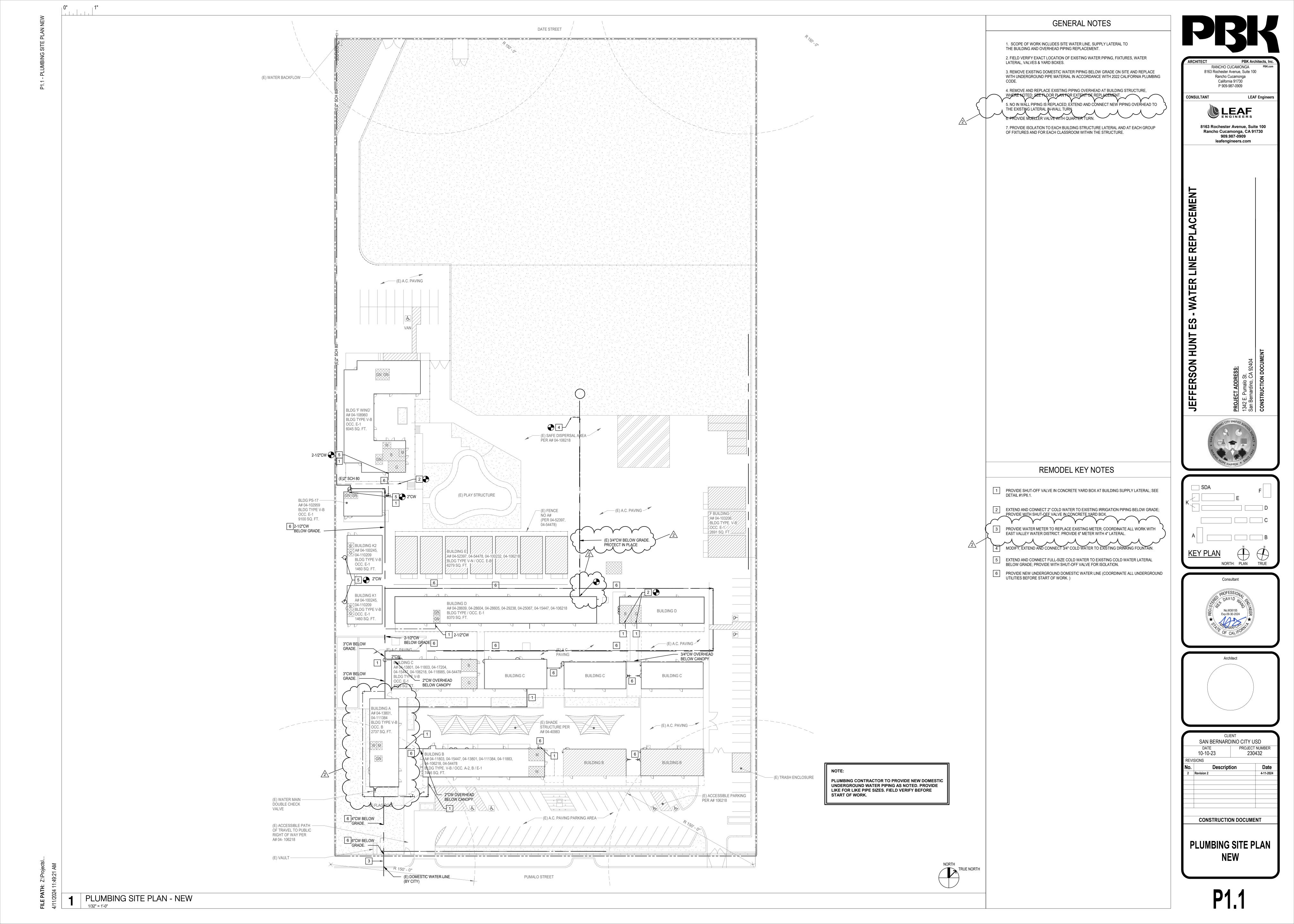
Item No. 02.07: Sheet P2.6: See clouded areas.

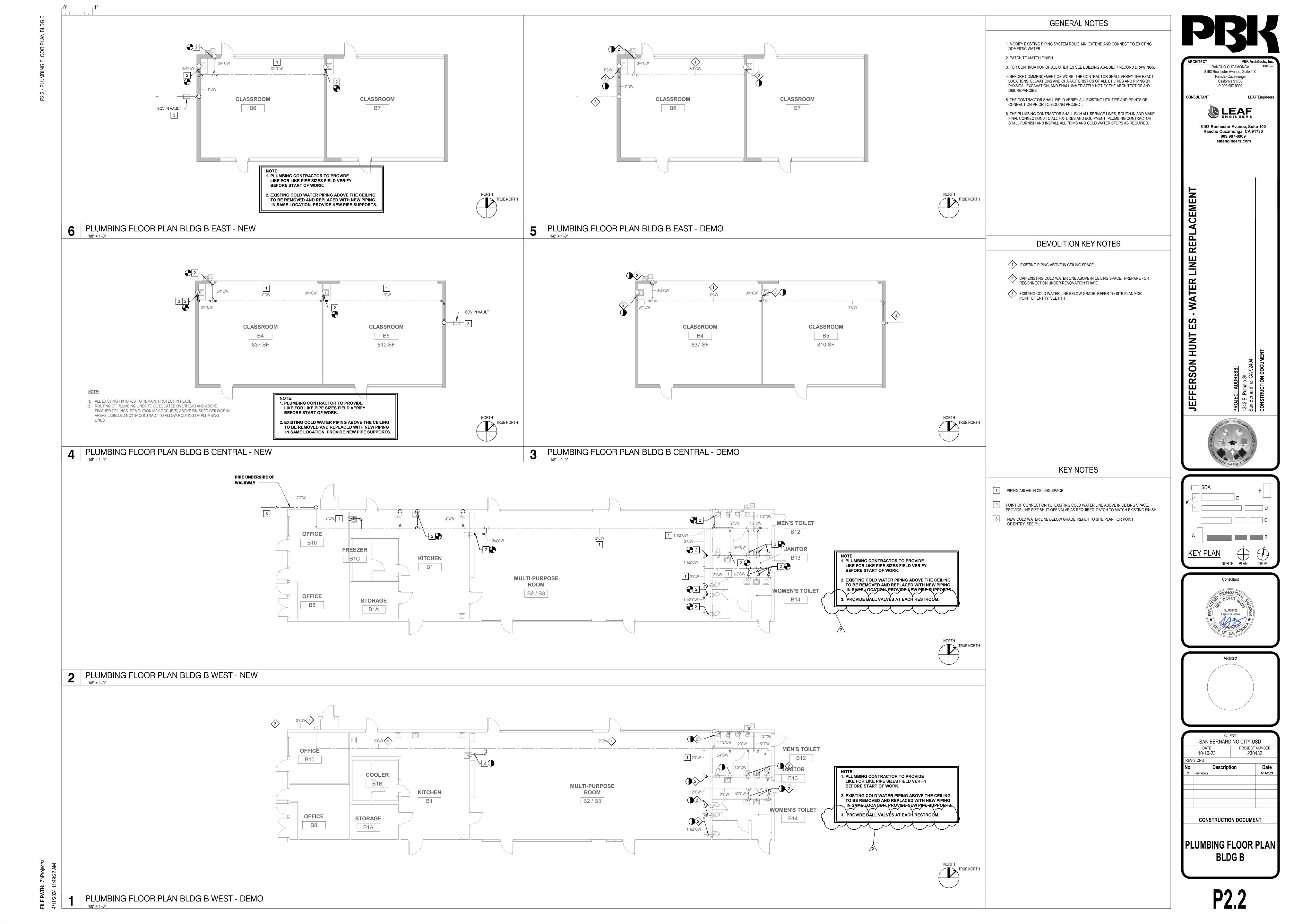
Item No. 02.08: Sheet L1.00: New Sheet – additive bid alternate. Item No. 02.09: Sheet L1.01: New Sheet – additive bid alternate.

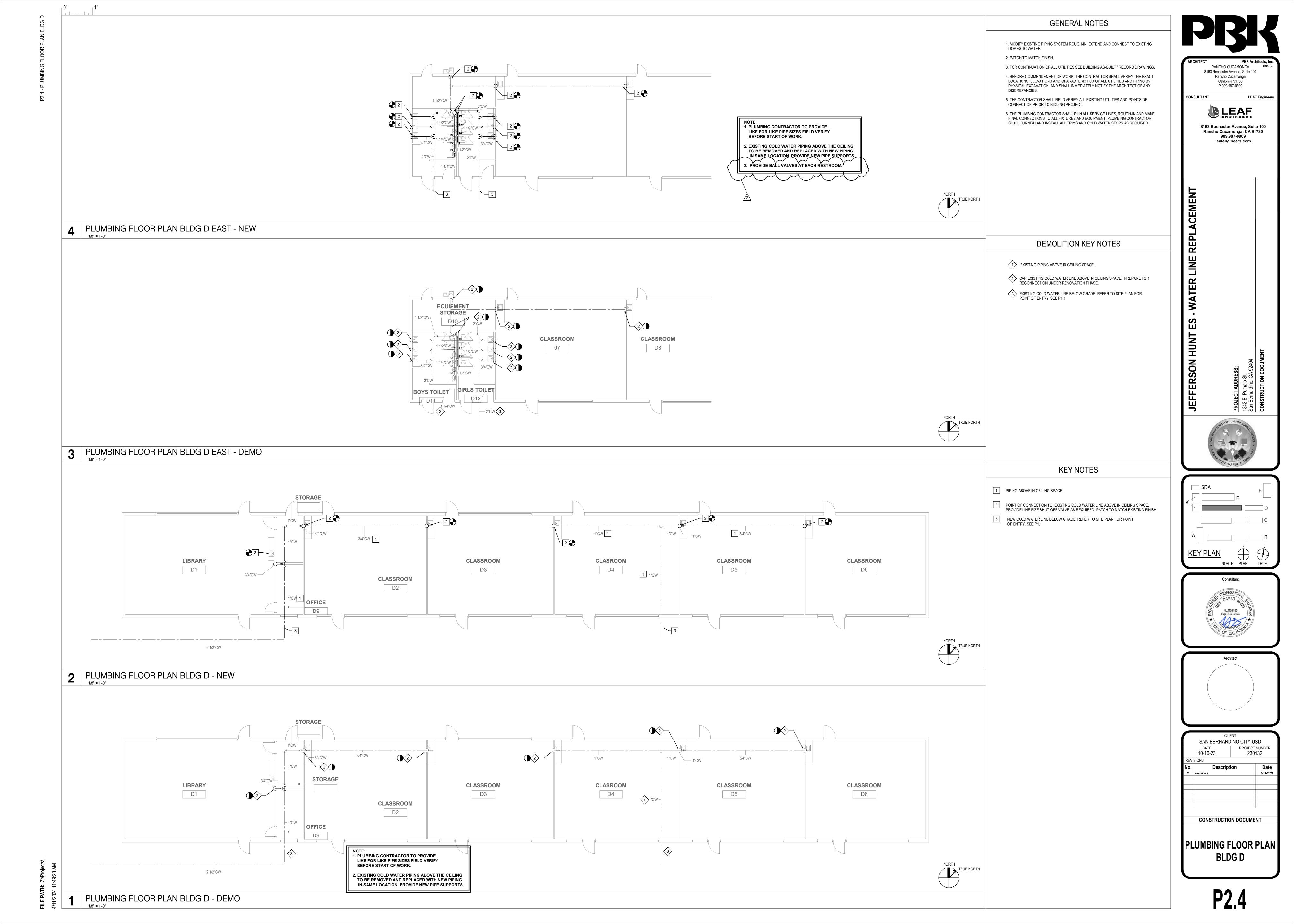
Item No. 02.10: Sheet L1.02: New Sheet – additive bid alternate.

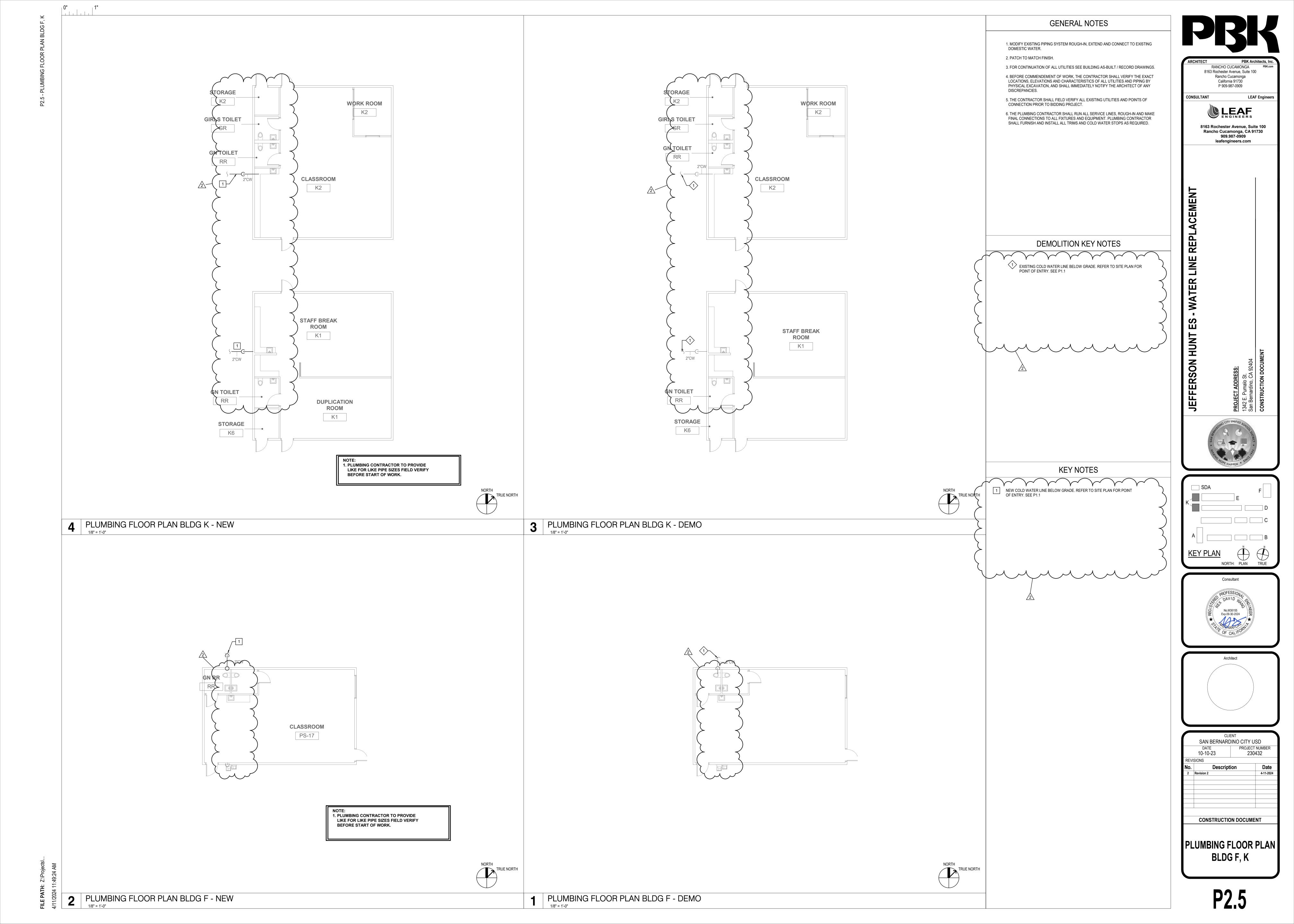
End of Addendum No. 02

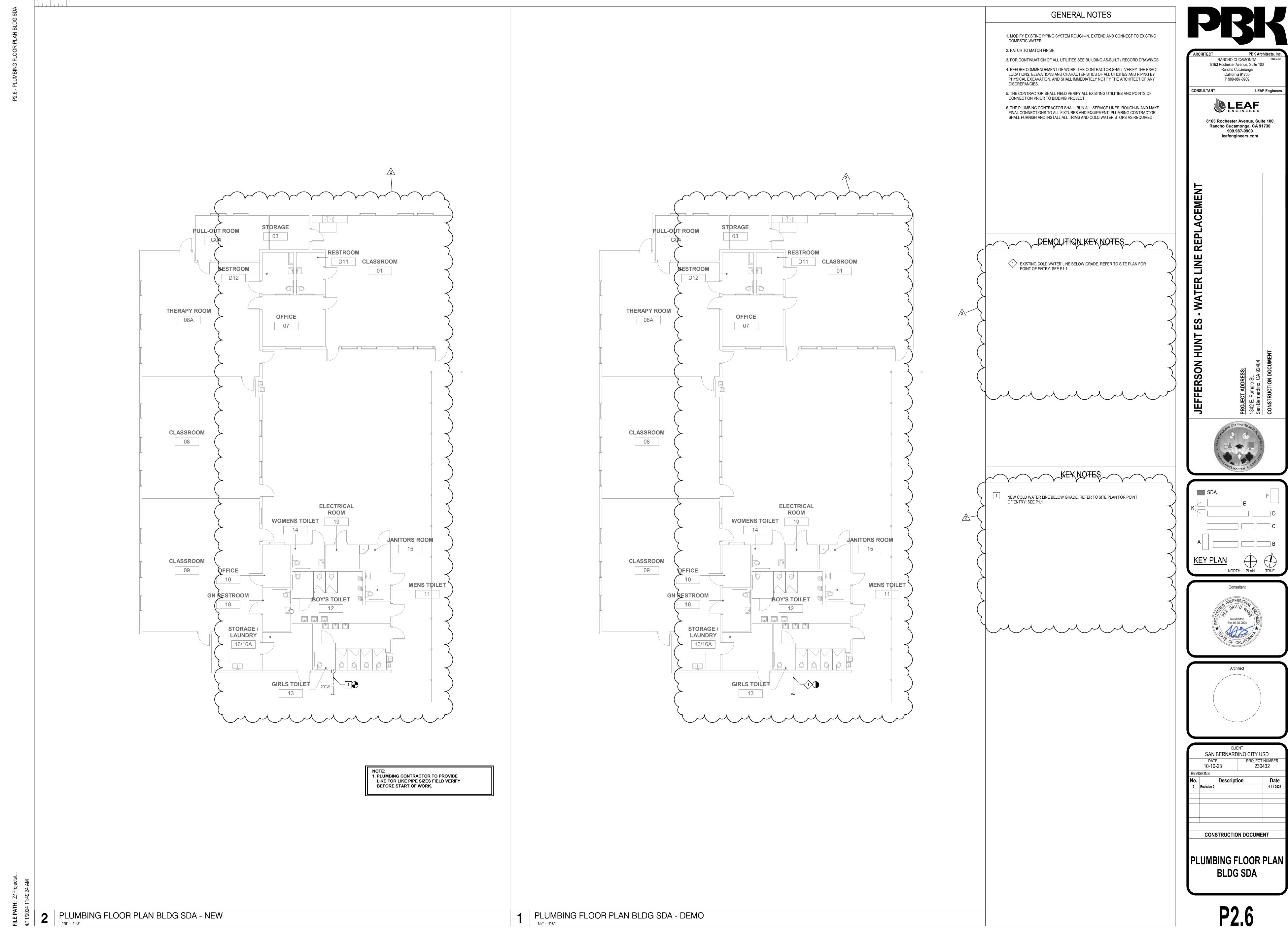












——— EXISTING IRRIGATION BACKFLOW

POINT OF CONNECTION (POC) #1 SHALL BE AN EXISTING BACKFLOW. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION, WATER TYPE, METER SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. MEASUREMENT OF THE STATIC (NO WATER MOVING) WATER PRESSURE IS ACCEPTABLE FOR POTABLE WATER SYSTEMS WHERE NO PUMP HAS BEEN INDICATED ON THESE PLANS. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION AS SHOWN HEREIN, ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

REQUIERED WATER PRESSURE AT POC: 80 PSI (STATIC) DESIGN WATER PRESSURE: 78 PSI 47 GPM

MAXIMUM SYSTEM DEMAND:

CONTROLLER "A" SHALL BE OF THE BRAND, MODEL AND STATION SIZE AS INDICATED ON THE IRRIGATION MATERIALS LEGEND. THE CONTROLLER SHALL BE INSTALLED IN THE APPROXIMATE LOCATION SHOWN. THE CONTRACTOR SHALL COORDINATE THE REQUIRED ELECTRICAL POWER SUPPLY AT THIS LOCATION WITH THE OWNER'S AUTHORIZED REPRESENTATIVE. FINAL LOCATION OF CONTROLLER AND ELECTRICAL POINT OF CONNECTION SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

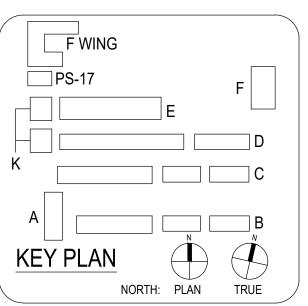
THESE PLANS ARE DIAGRAMMATIC, THE MAINLINE AND RELATED IRRIGATION EQUIPMENT IS SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATION OF MAINLINE AND RELATED IRRIGATION EQUIPMENT SHALL BE WITHIN PLANTER AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES, TYPICAL.

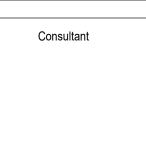
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR IN THE LANDSCAPE, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, TREES, ETC. WHEN A SLIGHT RELOCATION OF THE HEAD IS NOT SUFFICIENT TO CLEAR THE OBSTACLE, OR IF IT NEGATIVELY AFFECTS THE COVERAGE, AN ADDITIONAL HEAD SHALL BE INSTALLED TO PLACE ONE HEAD ON EITHER SIDE OF THE OBSTACLE. THE NOZZLES OF THESE TWO HEADS SHALL HAVE ARC PATTERNS THAT ADD UP TO THE ORIGINAL ARC PATTERN OF THE HEAD INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL HEAD LAYOUT WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

THESE PLANS ARE DIAGRAMMATIC, TREE BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN THE PAVING FOR CLARITY ONLY, THE ACTUAL LOCATIONS SHALL BE WITHIN THE PLANTER. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES AS SHOWN ON THE PLANTING PLANS, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

RANCHO CUCAMONGA 8163 Rochester Avenue, Suite 100 Rancho Cucamonga California 91730

P 909-987-0909







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IRRIGATION **PLAN**

sweeney + associates IRRIGATION DESIGN AND CONSULTING

3000 Joe DiMaggio Blvd., Bldg. 1700, Suite 61

e: info@sweeneyassoc.com | t: (512) 306-9350 w: www.sweeneyassoc.com | f: (512) 306-9035

Round Rock, Tx 78665

IRRIGATION NOTES

- 1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- 2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
- 3. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE
- 4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
- 5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
- 6. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
- 7. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
- 8. CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
- 9. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
- 10. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
- 11. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
- 12. CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.
- 13. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. SWEENEY AND ASSOCIATES RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.
- 14. THE CONTRACTOR IS REQUIRED TO CONTACT DIGALERT OR 811 A MINIMUM OF TWO (2) DAYS PRIOR TO THE START OF ANY EXCAVATIONS ON THE PROJECT AND SPECIFICALLY PRIOR TO THE INSTALLATION OF ANY GROUNDING RODS. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG TO START A PROJECT TICKET. DIGALERT AND 811 IS A FREE SERVICE PROVIDED TO THE PROJECT. FAILURE TO CONTACT AND HAVE THE EXISTING UTILITIES IDENTIFIED, LOCATED AND MARKED SHALL MAKE THE CONTRACTOR SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES.

EXISTING IRRIGATION NOTES

- A. CONTRACTOR SHALL MAINTAIN EXISTING MAINLINES IN WORKING ORDER. COORDINATE ALL INTERRUPTIONS OF OPERATION OF THE EXISTING IRRIGATION TO A MINIMUM. COORDINATE ALL INTERRUPTIONS WITH THE OWNER'S REPRESENTATIVE.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION AND IF DAMAGED, SHALL REPLACE WITH SAME MANUFACTURER AND MODEL.
- C. ANY EXISTING IRRIGATION CONTROL VALVES CONNECTED TO EXISTING CONTROLLER SHALL BE RECONNECTED TO EXISTING CONTROLLER. CONFIRM PROPER CONTROLLER OPERATION AND INSTALLATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK AND UPON COMPLETION OF WORK.
- D. CONTRACTOR SHALL CONFIRM THE EXISTING CONTROLLER MAKE AND MODEL AND SHALL CONFIRM THAT SAID CONTROLLER HAS ADEQUATE OPEN STATIONS TO OPERATE ANY ADJUSTED AND ALL PROPOSED IRRIGATION SYSTEM MODIFICATIONS. NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE SHOULD ANY DISCREPANCIES BE NOTED.
- E. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/MODIFICATION/REROUTING OF ALL ADJACENT IRRIGATION SYSTEM EQUIPMENT THAT IS AFFECTED BY NEW CONSTRUCTION IMPROVEMENTS. CONTRACTOR SHALL REPAIR SAID SYSTEMS TO A LIKE NEW MANNER, PROVIDING NO LESS THAN 100% OF HEAD RADIUS COVERAGE IN ALL AREAS WITH SYSTEM LAYOUT AS APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL AREAS REQUIRING MODIFICATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK
- BY OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL AREAS REQUIRING MODIFICATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK.

 F. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL EXISTING IRRIGATION EQUIPMENT

REMOVED AND DISPOSED OF IN FIELD PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK.

G. CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BIDDING WORK AND AGAIN PRIOR TO COMMENCING WORK. VERIFICATION SHALL BE DOCUMENTED AND DELIVERED TO OWNER'S REPRESENTATIVE.

AFFECTED BY THE NEW CONSTRUCTION IMPROVEMENTS, IF NECESSARY. CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE

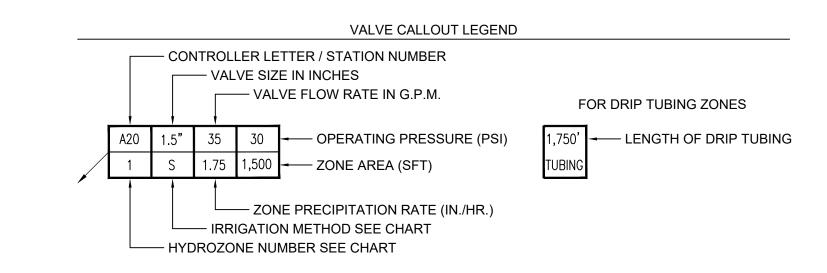
- H. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ALL SCH. 40 PVC SLEEVING UNDER PAVING, WALLS AND CURBS AT NO LESS THAN 24" BELOW GRADE AND NO LESS THAN 2X DIAMETER OF IRRIGATION PIPE IN AREAS WHERE PIPE CROSSING WILL OCCUR. WHEN PIPE SIZE IS NOT AVAILABLE USE 6" SLEEVING MATERIAL. CONFIRM CROSSINGS WITH OWNER'S REPRESENTATIVE PRIOR TO PAVING AND HARDSCAPE CONSTRUCTION.
- EXISTING IRRIGATION IN THIS AREA SHALL BE PROTECTED IN PLACE FOR CONTINUED USE. CONTRACTOR SHALL VERIFY THE EXTENT OF THE EXISTING SYSTEM AND MAKE ADJUSTMENTS TO CAP OFF OR MODIFY THE EXITING SYSTEM TO MEET THE NEW LANDSCAPE CONDITION IF NECESSARY.
- J. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING WITHIN THE DRIPLINE OF EXISTING TREES. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING TREE WILL BE ALLOWED. CONTRACTOR SHALL REFER TO ARBORIST REPORT FOR ADDITIONAL PRECAUTIONS REQUIRED FOR THE EXISTING TREES. VERIFY ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE.
- K. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING BACKFLOW DEVICE AND TESTING FOR PROPER OPERATION. SHOULD BACKFLOW DEVICE BE INOPERABLE OR NOT IN PLACE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF SAID BACKFLOW DEVICE. CONFIRM ANY DISCREPANCIES WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK.

Note: These schedules are intended only for compliance with local municipal codes and the water efficient landscape ordinance. These calculations represent the maximum reasonable run times and are used to ensure that all irrigation may be completed during the specific watering window allowed. These schedules do not include rainfall, site soil types, specific exposures (shade versus sun), actual irrigation days, or specific slope position. It is solely the responsibility of the irrigation contractor to program the controller as required to apply the correct amount of irrigation water for the landscape. All smart controllers shall be programmed using the specified ET or weather sensing equipment, satellite provided ET data, soil moisture sensors, and rain shut off devices as required. Contractor shall provide a controller schedule inside the controller cabinet prior to final turnover of the project to the

| | WATER PRESSU | RE LOS | SC | CALCUL | A٦ | TIONS | |
|---------------------|---|--------------|----------------------|---------------------|---------|--------------|-------|
| POINT OF C | 1 | WA | TER METER | SIZ | E (ln.) | N/A | |
| POINT OF C | CONNECTION ELEV. (Ft.) | 0 | HYI | DRAULIC GR | ADE | E LINE (Ft.) | 0 |
| REMOTE C | ONTROL VALVE NUMBER | A4 | STA | ATIC PRESSURE (PSI) | | | 0.0 |
| R.C.V. DEMAND (GPM) | | 47.0 | 0 TOTAL DEMAND (GPM) | | | 47.0 | |
| S+a SU | PRESSURE LOSS CALCULATION IS PROVIDED FOR THIS PROJECT BY SWEENEY & ASSOCIATES, INC. UNAUTHORIZED USE BY ANY OTHER PERSON, COMPANY OR PROJECT IS FORBIDDEN WITHOUT WRITTEN PERMISSION. | | | | | | |
| SIZE (In.) | DESCRIPTION | | | FLOW | # | LOSS | UNITS |
| 2.00 | BACKFLOW PREVENTER EXIS | TING | | 47 | 1 | 13.00 | PSI |
| 2.00 | BACKFLOW FILTRATION EXIST | ING | | 47 | 2 | 0.50 | PSI |
| 2.00 | BFD ASSEMBLY PIPING (BRAS | SS W/ 4 ELLS |) | 47 | 3 | 1.43 | PSI |
| 2.00 | MASTER CONTROL VALVE | | | 47 | 4 | 2.90 | PSI |
| 2.00 | FLOW SENSOR | | | 47 | 5 | 1.00 | PSI |
| 3.00 | MAINLINE ISOLATION VALVES | (BALL TYPE) | | 47 | 6 | 0.50 | PSI |
| 3.00 | 265 FEET OF MAINLINE: SCH | 1 40 PVC | | 47 | 7 | 0.66 | PSI |
| 1.50 | REMOTE CONTROL VALVE AS | SEMBLY | | 47 | 8 | 2.40 | PSI |
| 10% | LATERAL LINE LOSSES | | | 47 | 9 | 5.00 | PSI |
| 20% | ADDITIONAL FITTING LOSS IN N | MAINLINE | | N/A | 10 | 0.13 | PSI |
| 0.00 | ELEVATION CHANGE (TO HIGH | IEST AREA) | | N/A | 11 | 0.00 | PSI |
| TOTAL SYS | TEM PRESSURE LOSS | SUM OF | 1 | THRU 11 | 12 | 27.5 | PSI |
| OPERATING | PRESSURE REQUIRED | INFORMA | TIO | N FOR RCV | 13 | 50.0 | PSI |
| TOTAL DES | IGN PRESSURE REQUIRED | SUM OF | 12 | THRU 13 | 14 | 77.5 | PSI |
| STATIC WA | TER PRESSURE | | FR | OM ABOVE | 15 | 0.0 | PSI |
| RESIDUAL ' | WATER PRESSURE | SUBTRACT | 14 | FROM 15 | 16 | -77.5 | PSI |

IRRIGATION MATERIAL LEGEND

| SYMBOL | MANUFACTURER | MODEL NO. / DESCRIPTION | FLOW RATE (GPM) | PSI | RADIUS | P.R. (TRI.) | DETAIL |
|--------------------------|---------------------|---|---|-----------------------|----------------------------|--|----------|
| (18) 90° 180° 360° | RAIN BIRD | 8005-SS 5" POP-UP LARGE RADIUS TURF ROTOR WITH A S.S. STEM A #10 NOZZLE | 9.3 | 50 | 61 FT | 1.28 IN./HR. (Q) 0.64 IN./HR. (H) 0.32 IN./HR. (F) | |
| \square | RAIN BIRD | 200-PESB-PRS-D 2" NORMALLY CLOSED, PRESSURE REGULATING, PLASTIC MASTER CONTROPILOT AND GROUND WIRE, ROUTE INSIDE CONDUIT WITH FLOW SENSOR WIRE. INSTALL INS | | | | NG A SEPARATE | В |
| F | RAIN BIRD | FS200P SERIES FLOW SENSOR WITH 2" PVC TEE. WIRE TO A SENSOR DECODER AND CONNE DEDICATED TO MASTER VALVE AND FLOW SENSOR. INSTALL INSIDE A STANDARD RECTANG | | G A SEPA | ARATE TWO-V | WIRE CABLE | С |
| >> | NIBCO | T-113 CLASS 125, BRONZE GATE VALVE WITH BRONZE CROSS HANDLE, FOR MAINLINE ISOLA RECTANGULAR VALVE BOX. | TION, LINE SIZE PER MAIN | LINE. INS | STALL INSIDE | A STANDARD | D |
| lacktriangle | RAIN BIRD | 44LRC 1" QUICK COUPLER VALVE WITH LOCKING VINYL COVER AND A LASCO G13S-218 SWIN | G JOINT. INSTALL INSIDE | 4 10" ROI | JND VALVE B | BOX. | E |
| • | BUCKNER SUPERIOR | 950 DW BRASS REMOTE CONTROL VALVE, SIZE AS SHOWN (1" AND 1 1/2" SIZES). INSTALL THE WITH BRASS FULL PORT ISOLATION BALL VALVE. | E RCV INSIDE A JUMBO RE | CTANGU | LAR VALVE B | BOX | F N/A |
| | RAIN BIRD | ESPLXME2P PRO SERIES 12-STATION CONTROLLER. CONTROLLER SHALL BE INSTALL WITHIN LXMMSSPED PEDESTAL. INSTALL WITH IQ NCC 4G CELLULAR CARTRIDGE TO ALLOW FOR COCENTRAL CONTROL SOFTWARE AND "GLOBAL WEATHER" EVAPOTRANSPIRATION RATE DAIL GROUNDED PER MANUFACTURER'S RECOMMENDATION. | MMUNICATION WITH RAIN | BIRD'S V | VEB BASED I | | G |
| R | RAIN BIRD | WR2 WIRELESS RAIN SENSOR, MOUNT TO BUILDING WITH FULL SUN EXPOSURE (WITHIN 200 | OF CONTROLLER LOCATION | ON) | | | N/A |
| E | N/A | 120 VOLT ELECTRICAL POWER, PROVIDED BY ELECTRICIAN, VERIFY ACTUAL LOCATION IN FI | ≣LD | | | | N/A |
| NO SYMBOL | PAIGE ELECTRIC | THE CONTROLLER SHALL BE GROUNDED USING A #182000 5/8" X 8 FOOT COPPER CLAD GROTHE REQUIRED LENGTH OF #6AWG BARE, SINGLE STRAND COPPER GROUND WIRE. INSTALL | • | | E ROD CLAMF | PAND | Н |
| | AS APPROVED | PVC PIPE 3/4" - 2" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES IN | ISTALLED 12" BELOW FINIS | SHED GR | ADE | | 1 |
| | AS APPROVED | PVC PIPE 3" CL. 315, SOLVENT WELD WITH SCH. 80 PVC FITTINGS, AS MAINLINES INSTALLED | 18" BELOW FINISHED GRAI | DE | | | 1 |
| | AS APPROVED | 2" AND SMALLER SHALL BE PVC PIPE SCH. 40, 3" AND LARGER SHALL BE PVC PIPE CL 315 AS BUNDLE CARRIED PLACE BELOW ALL PAVING, HARDSCAPE ETC. AND AS DIRECTED BY OWN | • | | | WIRE | J |
| NO SYMBOL | LASCO | ALL FITTINGS USED WITH SOLVENT WELD MAINLINE PIPE SHALL BE SCH. 80 PVC FITTINGS, GO PIPE. ALL FITTINGS USED WITH SOLVENT WELD LATERAL LINE PIPE SHALL BE SCH. 40 PVC, LINE PIPE. ALL THREADED PVC NIPPLES SHALL BE SCH. 80 PVC PIPE, DARK GRAY IN COLOR | WHITE IN COLOR, AND SIZE | ED TO MA | | | N/A |
| NO SYMBOL | AS APPROVED | ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE SOLVENT CEMENT. PRIMER SHALL BE LOW VOC "PURPLE PRIMER". MAINLINE SOLVENT CEMENT CEMENT SHALL BE LOW VOC, GRAY OR BLUE COLORED MEDIUM BO ONE-HALF THE SIZE OF THE LARGEST PIPE BEING JOINED. ALL SOLVENT CEMENTED JOINTS MANUFACTURER'S RECOMMENDATIONS. | MENT SHALL BE LOW VOC, DIED CEMENT. USE DAUB | "GRAY-H ERS SIZE | IEAVY BODY" ED AT LEAST | CEMENT. | N/A |
| NO SYMBOL | AS APPROVED | ALL SOLVENT WELD MAINLINES ABOVE 2" IN SIZE SHALL HAVE CONCRETE THRUST BLOCKIN ELBOWS (45° AND 90°) AND TEES. MAINLINE PIPES UNDER 2" SIZE AND ALL LATERAL LINES D | | | | ICLUDING | K |
| NO SYMBOL | PAIGE ELECTRIC | P7079D POLYETHYLENE INSULATED, SOLID COPPER CONDUCTOR IRRIGATION CONTROL WIFE SHALL BE RED IN COLOR, COMMON GROUND WIRE SHALL BE WHITE IN COLOR, SPAR CONTRACTOR SHALL ROUTE TWO (2) SPARE CONTROL WIRES (YELLOW) FROM THE CONTREFROM THE CONTROLLER. LOOP SPARE WIRES UP AND INTO EACH VALVE BOX ALONG THE MAND THE | E WIRES SHALL BE YELLO' OLLER ALONG THE MAINLII | W IN COL NE IN ALI | OR. THE LORE | S AWAY | N/A |
| NO SYMBOL | AS APPROVED | 11/4" SCH. 40 PVC, GRAY ELECTRICAL CONDUIT FOR FLOW SENSOR / MASTER VALVE WIRES, FOR A 3 FOOT WIRE LOOP OR ANY SPLICES. INSTALL INSIDE A STANDARD RECTANGULAR VA | | MAXIMUN | и OF 200 FEE | T ON CENTER | N/A |
| NO SYMBOL | 3M | DBR/Y-6 DIRECT BURIAL WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE CONNEC | CTIONS (U.L. APPROVED) | | | | L |
| NO SYMBOL | NDS (K.B.I.) | KSC-XXX-S SWING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREA SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP | | | | | N/A |
| NO SYMBOL | NDS (K.B.I.) | KC-XXX-S SPRING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREAD SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP | | | | | N/A |
| NO SYMBOL | CARSON | VALVE BOXES, SIZE PER EQUIPMENT LEGEND, WITH T-COVER LIDS AND CAPTIVE BOLT AND VALVES USE 6" ROUND MODEL 708, 10" ROUND SHALL BE MODEL 910, 12" STANDARD RECT. SI MODEL 1220, SUPER JUMBO SHALL BE MODEL 1324, AND SUPER JUMBO XL SHALL BE MODEL FOR USE IN NON-VEHICULAR TRAFFIC SITUATIONS ONLY. DO NOT INSTALL IN CONCRETE OF VALVE BOXES LOCATED IN TURF SHALL BE SET AT GRADE, NOT LESS THAN 12" OR MORE THE SHALL BE SET 3" AROVE CRADE NEAR EDGE OF BLANTER. | SHALL BE MODEL 1419, 12" . 1730. COVERS AND BOXE R ASPHALT. | JUMBO F S SHALL | RECT. SHALL BE GREEN IN | BE I COLOR. | N/A |



| HYDROZONE DESCRIPTION CHART | | | | | |
|-----------------------------|------------------------------|--------|--------------|--|--|
| NUMBER | DESCRIPTION OF THE HYDROZONE | WUCOLS | PLANT FACTOR | | |
| HZ 1 | MODERATE WATER USE TURF | М | 0.50 | | |

IN SHRUB AREAS SHALL BE SET 2" ABOVE GRADE NEAR EDGE OF PLANTER.

| IRRIGATION METHOD DESCRIPTION CHART | | | | | | |
|-------------------------------------|-------------------------------|-------|----------------|--|--|--|
| LETTERS | DESCRIPTION OF THE IRRIGATION | TYPE | IR. EFFICIENCY | | | |
| R | ROTOR HEADS | SPRAY | 0.75 | | | |

PRK

RANCHO CUCAMONGA

8163 Rochester Avenue, Suite 100

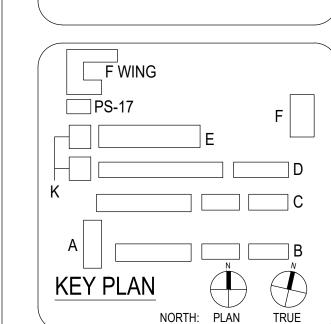
Rancho Cucamonga

California 91730

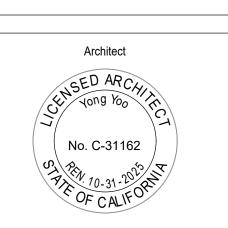
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FERSON HUNT ES - WATER LINE REPLACEMENT

TADDRESS:
Pumalo St.
nardino, CA 92404



Consultant



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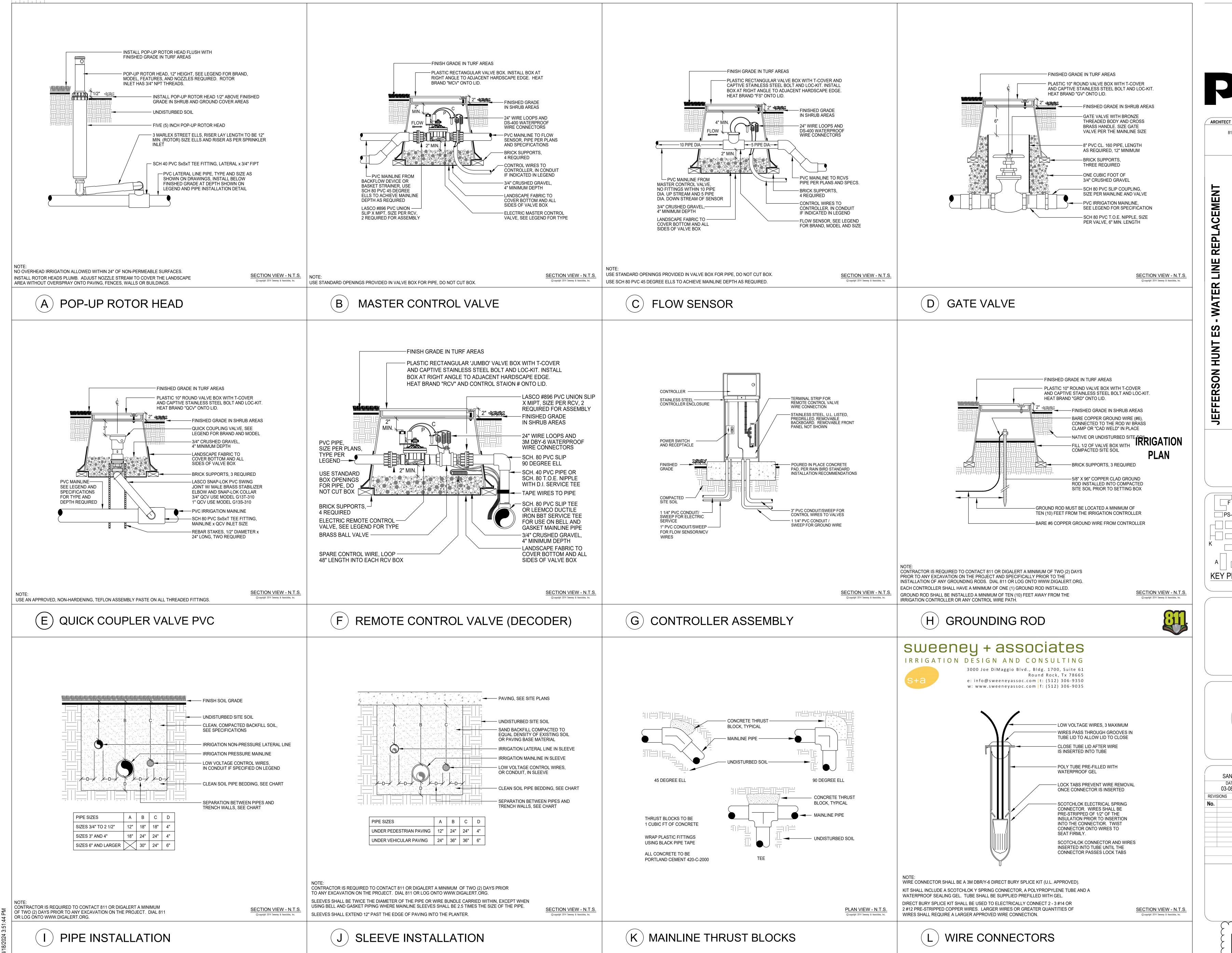
IRRIGATION

SWeeney + associates

IRRIGATION DESIGN AND CONSULTING

3000 Joe DiMaggio Blvd., Bldg. 1700, Suite 61
Round Rock, Tx 78665

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FFERSON HUNT ES - WATER LINE REPLACE

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Consultant

Architect

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Architect

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IRRIGATION DETAILS

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