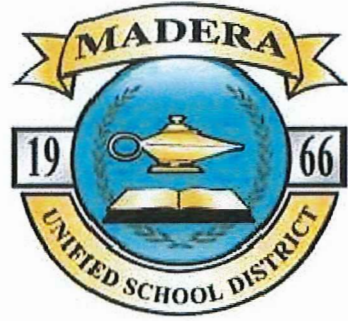


Bid No.010324



MADERA UNIFIED SCHOOL DISTRICT PARKWOOD ELEMENTARY SCHOOL KITCHEN

1150 E PECAN AVENUE,
MADERA, CA 93637

GENERAL

PROJECT ADDRESS:
1150 E PECAN AVENUE,
MADERA, CA 93637

PROJECT DESCRIPTION

PLUMBING REMODEL TO ACCOMMODATE NEW OVENS INCLUDING
THE DEMOLITION OF EXISTING CURBS AND ADDITION OF NEW
FLOOR SINK.

MECHANICAL ENGINEER OF RECORD

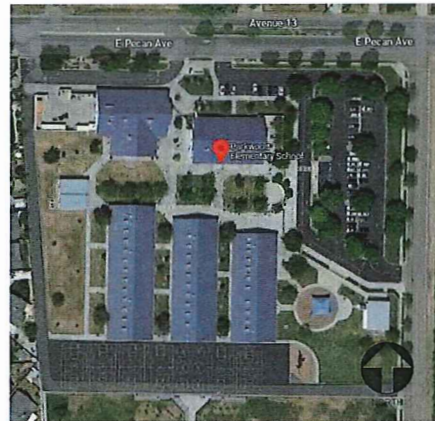
NET POSITIVE CONSULTING ENGINEERS

1446 TOLLHOUSE RD. #102
CLOVIS, CA 93611
559-940-7293

JONATHAN SCHLUNDT, PE

JSCHLNDT@NPCENG.COM

SITE MAP



SHEET INDEX

| | |
|------|-------------------------------------|
| P001 | COVER SHEET |
| P002 | PLUMBING SPECIFICATIONS AND DETAILS |
| P200 | PLUMBING DEMOLITION PLAN |
| P201 | PROPOSED PLUMBING PLAN |

GOVERNING CODES

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), C.C.R. TITLE 24, PART 1
2022 CALIFORNIA BUILDING CODE (CBC), C.C.R. TITLE 24, PART 2
2022 CALIFORNIA ELECTRICAL CODE (CEC), C.C.R. TITLE 24, PART 3
2022 CALIFORNIA MECHANICAL CODE (CMC), C.C.R. TITLE 24, PART 4
2022 CALIFORNIA PLUMBING CODE (CPC), C.C.R. TITLE 24, PART 5
2022 CALIFORNIA FIRE CODE (CFC), C.C.R. TITLE 24, PART 9
2022 CALIFORNIA REFERENCED STANDARDS CODE, C.C.R. TITLE 24, PART 12
2022 CALIFORNIA ENERGY CODE (CAC), C.C.R. TITLE 24, PART 6
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), C.C.R.
TITLE 24, PART 11
C.C.R., TITLE 19 PUBLIC SAFETY

GENERAL NOTES

- COORDINATION OF WORK. LAYOUT OF MATERIALS, EQUIPMENT AND
SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY
DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
- THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK,
FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED,
PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES
WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL
OR OTHER ELEMENTS.
- VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE
ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE
ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE
INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
- ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF
THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE
FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY
CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL,
PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH
THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE
CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO
EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE.
- EXISTING PIPING IS SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY.
INFORMATION OF (G) UTILITIES IS BASED UPON EXISTING PLUMBING
DRAWINGS AND OWNER'S BEST KNOWLEDGE. EXISTING INFORMATION
SHOWN MAY NOT BE TAKEN AS COMPREHENSIVE, AND NO GUARANTEE IS
MADE AS TO THE ACCURACY OR COMPLETENESS OF THE EXISTING
INFORMATION SHOWN.
- MINIMUM SLOPE FOR SEWER IS 1/4" PER FT, UNLESS OTHERWISE NOTED.
- ALL ROOF PENETRATIONS SHALL BE COMPATIBLE WITH ROOF SYSTEM
WITH AS FEW PENETRATIONS AS POSSIBLE.
- MINIMUM DOMESTIC WATER PIPE SIZE TO BE 3/4". USE A
REDUCING ELBOW AT FIXTURE, IF NECESSARY.
- CONTRACTOR TO VERIFY EXACT LOCATION AND DEPTH OF POINTS OF
CONNECTION TO SITE UTILITIES.
- ALL PLUMBING FIXTURES, VALVES, FAUCETS, FIXTURE STOPS, ETC. WHICH
PROVIDE WATER FOR HUMAN CONSUMPTION MUST MEET THE "LEAD FREE"
REQUIREMENT FOR THE STATE OF CALIFORNIA.
- MAXIMUM ALLOWABLE DISTANCE FOR HOT WATER LATERALS TO FIXTURES
OFF OF THE CIRCULATING MAIN SHALL BE 10'-0" FOR HAND WASH SINKS
AND LAVS, AND 15'-0" FOR OTHER SINKS.
- LEAN CONCRETE SHALL BE USED AS BACKFILL WHERE UTILITY TRENCHES
EXTEND FROM THE EXTERIOR TO THE INTERIOR UNITS OF THE BUILDING.
LEAN CONCRETE SHALL EXTEND A MINIMUM DISTANCE OF TWO (2) FEET
LATERALLY ON EACH SIDE OF THE EXTERIOR BUILDING LINE AND A
MINIMUM OF SIX (6) INCHES ABOVE FOOTING PENETRATION.

PLUMBING LEGEND

| SYMBOL | ITEM | ABBR. |
|-------------------|---------------------------------|----------------|
| — | ABOVE | ABV |
| — | ABOVE CEILING | ABV CLG |
| — | ABOVE FINISHED FLOOR | AFF |
| — | ALTERNATE | ALT |
| & | AND | |
| — | ARCHITECT / ARCHITECTURAL | ARCH |
| @ | AT | |
| — | BELOW FLOOR | BEL FLR |
| — | BELOW GRADE | BEL GR |
| — | CALIFORNIA MECHANICAL CODE | CMC |
| — | CALIFORNIA PLUMBING CODE | CPC |
| — | CEILING | CLG |
| — | CENTER LINE | CL |
| — | CONTRACTION | CON |
| — | CUBIC FEET PER HOUR | CFH |
| Ø | DIAMETER | DIA |
| — | DOWN | DN |
| — | DRAWING | DWG |
| — | ELBOW | ELL |
| — | ELECTRICAL | ELEC |
| — | EXISTING | (E) |
| — | FEET | FT |
| — | FLOOR | FLR |
| — | FLOW LINE | FL |
| — | GALLON | GAL |
| — | GALLONS PER HOUR | GPH |
| — | GALLONS PER MINUTE | GPM |
| — | GAUGE | GA |
| — | INSIDE DIAMETER | ID |
| — | INVERT ELEVATION | IE |
| — | MAXIMUM | MAX |
| — | MINIMUM | MIN |
| — | NEW | (N) |
| — | NOT IN CONTRACT | NIC |
| — | NOT TO SCALE | NTS |
| # | NUMBER | NO. |
| — | OWNER FURNISHED OWNER INSTALLED | OFOI |
| — | POUNDS | LBS |
| — | POUNDS PER SQUARE INCH | PSI |
| — | POUNDS PER SQUARE INCH ABSOLUTE | PSIA |
| — | POUNDS PER SQUARE INCH GAUGE | PSIG |
| — | POLYETHYLENE GLYCOL | PVG |
| — | ROOM | RM |
| — | SPECIFICATION | SPEC |
| — | SQUARE FEET | SQ FT |
| — | STAINLESS STEEL | SS |
| — | TEMPERATURE | TEMP |
| — | THROUGH | THRU |
| — | TYPICAL | (TYP) |
| — | UNDER GROUND | UG |
| — | WATER COLUMN | WC |
| — | WITH | W |
| — | WITHOUT | W/O |
| —A— | COMPRESSED AIR | A |
| —AV— | ACID VENT | AV |
| —AV— | ACID WASTE | AV |
| —O— | ACID VENT RISER | AVR |
| —O— | ACID VENT THRU ROOF | AVTR |
| —CD— | CONDENSATE DRAIN | CD |
| —CW— | DOMESTIC COLD WATER | CW |
| —HW— | DOMESTIC HOT WATER | HW |
| —HWR— | DOMESTIC HOT WATER RETURN | HWR |
| —G— | LOW PRESSURE NATURAL GAS | G |
| —HPG— | HIGH PRESSURE GAS | HPG |
| —ICW— | INDUSTRIAL COLD WATER | ICW |
| —LPG— | LIQUEFIED PETROLEUM GAS | LPG |
| —F— | FIRE PROTECTION LINE | |
| —RWL— | RAIN WATER LEADER | RWL |
| —OD— | OVERFLOW DRAIN | OD |
| —SD— | STORM DRAIN | SD |
| —S or W | SOIL or WASTE | S or W |
| —MA— | MEDICAL AIR | MA |
| —O ₂ — | OXYGEN | O ₂ |
| —VAC— | VACUUM | VAC |
| —V— | VENT | V |
| —VR— | VENT RISER | VR |
| —VTR— | VENT THRU ROOF | VTR |
| —COTG | CLEANOUT TO GRADE | COTG |
| —DEMO | DEMOLITION | DEMO |
| —EXISTING PIPING | EXISTING PIPING | |
| —FCO | FLOOR CLEANOUT | FCO |
| —HOSE BIB | HOSE BIB | |
| —PPVZ TURN UP | PPVZ TURN UP | |
| —PPVZ TURN DOWN | PPVZ TURN DOWN | |
| —PPVZ CAP | PPVZ CAP | |
| —POC | POINT OF CONNECTION TO EXISTING | POC |
| —ANGLE VALVE | ANGLE VALVE | |
| —BALANCE VALVE | BALANCE VALVE | |
| —BALL VALVE | BALL VALVE | |
| —CHECK VALVE | CHECK VALVE | |

| SYMBOL | ITEM | ABBR. |
|--------|----------------------------------------------------------------------------------|-------|
| — | CONCENTRIC REDUCER | |
| — | TWO-WAY CONTROL VALVE | |
| — | PLUG VALVE | |
| — | PRESSURE REDUCING VALVE | |
| — | SHUT-OFF VALVE IN BOX | SOV |
| — | SHUT-OFF VALVE | SOV |
| — | THERMOSTATIC MIXING VALVE | |
| — | TEMPERATURE / PRESSURE RELIEF VALVE | PRV |
| — | UNION | |
| — | WALL CLEANOUT | WCO |
| — | "Y" TYPE STRAINER | |
| — | PRESSURE GAUGE | |
| — | TEMPERATURE GAUGE | |
| — | KEYNOTE | |
| — | NEW FIXTURE TAG EXAMPLE WATER CLOSET - TYPE 1 (REFER TO PLUMBING SCHEDULE) | |
| — | DETAIL REFERENCE EXAMPLE DETAIL 2, SHEET P600 | |
| — | SECTION REFERENCE EXAMPLE SECTION 3, SHEET P300 | |

ANCHORAGE & BRACING NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED
AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION
DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO
MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2018 CBC
SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS
PERMANENTLY ATTACHED TO THE BUILDING
UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
PERMANENTLY ATTACHED SHALL INCLUDE ALL ELECTRICAL
CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES
HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER
THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR
MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY
SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A
MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY
ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE
WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE
CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK,
PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH
TRANSVERSE AND LONGITUDINAL DIRECTIONS.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER
OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR
ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF
DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE
SUSPENDED FROM A ROOF OR FLOOR OR HANG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS
SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL
RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND
ACCEPTANCE BY DSA. THE PROJECT INSPECTOR SHALL VERIFY THAT ALL COMPONENTS
AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE
REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO
COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION
13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC,
SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE
IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND
ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., CSBP
OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE
OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND
DURING THE HANDING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE
STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE
STRUCTURE TO SUPPORT THE HANDING AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP),
ELECTRICAL DISTRIBUTION SYSTEMS (E).

MP ☐ MD ☐ PP ☐ E ☐ - OPTION 1: DETAILED ON THE
APPROVED DRAWINGS WITH PROJECT
SPECIFICATIONS AND DETAILS.
MP ☐ MD ☐ PP ☒ E ☐ - OPTION 2: SHALL COMPLY WITH THE
APPLICABLE CSBP PRE-APPROVAL
OPTION 1 & 2.

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Madera County
Environmental Health Department
APPROVED
8/24/2023

| REVISIONS: | |
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| Symbol | Description |
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PROJECT NAME:
MADERA USD
PARKWOOD ES KITCHEN
PROJECT NO. 1343
1150 E PECAN AVE, MADERA, CA 93637

DATE: 07/18/2023
SHEET TITLE:
COVER SHEET
SHEET NO:
P001

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PLUMBING SPECIFICATIONS

- GENERAL MECHANICAL SPECIFICATIONS**
CONTRACTOR SHALL PROVIDE A COMPLETE WORKING SYSTEM AND SHALL INCLUDE ALL ACCESSORIES, PARTS, MATERIALS AND LABOR REQUIRED TO MEET PERFORMANCE, CAPACITY, AND QUALITY REQUIREMENTS OF CONTRACT DOCUMENTS.
1. **CODES AND REGULATIONS** ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION. NOTHING IN THESE DRAWINGS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
- A. CALIFORNIA BUILDING CODE
 - B. CALIFORNIA MECHANICAL CODE
 - C. CALIFORNIA PLUMBING CODE
 - D. CALIFORNIA CODE OF REGULATIONS, TITLE 8, INDUSTRIAL RELATIONS
 - E. CALIFORNIA CODE OF REGULATIONS, TITLE 24, BUILDING STANDARDS
 - F. LOCAL CODES
2. **PERMITS, INSPECTIONS AND SERVICE CONNECTION CHARGES** OBTAIN ALL PERMITS REQUIRED FOR PERFORMING WORK AND PAY ALL RELATED FEES. PAY ALL CHARGES FOR SERVICE CONNECTIONS, METERS, ETC. BY UTILITY COMPANIES OR DISTRICTS. CALL FOR ALL REQUIRED INSPECTIONS AND PAY ALL RELATED FEES.
3. **WORK BY OTHERS** UNLESS OTHERWISE NOTED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER WIRING, MOTOR STARTERS IN MOTOR CONTROL CENTERS, DISCONNECTS, CONTROL WIRING AND CONDUIT AND INSTALLATION OF CONTROL DEVICES.
4. **GUARANTEE** THE CONTRACTOR SHALL REPAIR ANY DEFECTS DUE TO FAULTY MATERIALS OR WORKMANSHIP AND PAY FOR ANY DAMAGE TO OTHER WORK RESULTING THEREFROM WHICH APPEARS WITHIN A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF WORK.
5. **OPERATING AND MAINTENANCE INSTRUCTIONS** TWO COPIES OF ALL EQUIPMENT OPERATION AND MAINTENANCE INSTRUCTIONS AND WIRING DIAGRAMS SHALL BE FURNISHED TO THE OWNER, THROUGH THE ENGINEER.
6. **MATERIALS, EQUIPMENT AND INSTALLATION** EACH ITEM REFERRED TO ON THE DRAWINGS AND IN THE SPECIFICATIONS REPRESENTS THE STANDARD OF QUALITY DESIRED FOR MATERIALS, EQUIPMENT AND INSTALLATION. CONTRACTOR SHALL PROVIDE A RESUBMITTAL IF REQUESTED BY THE ENGINEER. ENGINEER WILL REVIEW EACH SUBMITTAL FOR PRODUCTS SCHEDULED ON THE DRAWINGS. IF MORE THAN ONE RESUBMITTAL IS REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BEAR THE COST OF THE ENGINEER'S REVIEW ON A TIME AND MATERIAL BASIS. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND FREE FROM DEFECTS. ALL INSTALLATIONS SHALL BE AS RECOMMENDED BY THE MANUFACTURER AND AS SHOWN ON DRAWINGS.
7. **SUBSTITUTIONS** MANUFACTURER EQUIPMENT AND PRODUCTS OTHER THAN THE SCHEDULED BASIS OF DESIGN ARE CONSIDERED A SUBSTITUTION. ALL SUBSTITUTIONS MUST BE SUBMITTED TO AND REVIEWED IN WRITING BY THE ENGINEER. SUBMITTAL MUST INCLUDE SIDE-BY-SIDE COMPARISON OF THE PRODUCTS PERFORMANCE, ELECTRICAL DATA, ACCESSORIES, DIMENSIONS, AND WEIGHTS. CONTRACTORS SHALL BEAR THE COST OF THE ENGINEER'S REVIEW ON A TIME AND MATERIAL BASIS.
8. **PIPES PASSING THROUGH FIRE RATED SURFACES** PIPES PASSING THROUGH FIRE RATED WALLS, FLOORS, CEILINGS, PARTITIONS, ETC. SHALL HAVE THE ANNUAL SPACE SURROUNDING THE PIPE OR PIPE INSULATION SEALED WITH FIRE RATED MATERIALS IN ACCORDANCE WITH THE REQUIREMENTS OF THE FIRE AUTHORITY HAVING JURISDICTION.

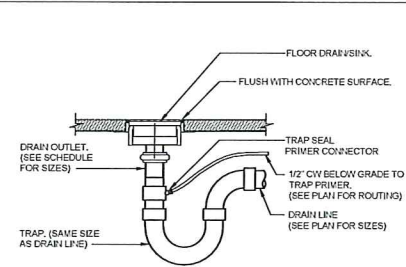
PLUMBING SPECIFICATIONS

1. **GENERAL** ALL GENERAL MECHANICAL SPECIFICATIONS APPLY TO THIS SECTION.
2. **LAYOUT** ROUTE PIPING TO AVOID CUTTING STRUCTURAL MEMBERS. WHERE CUTTING OR NOTCHING IS REQUIRED, THE STRUCTURAL MEMBER SHALL BE REINFORCED IN ACCORDANCE WITH THE UNIFORM BUILDING CODE. PIPING SHALL BE INSTALLED TO ENSURE UNRESTRICTED FLOW, ELIMINATE AIR POCKETS, PREVENT UNUSUAL NOISE AND PERMIT COMPLETE DRAINAGE OF THE SYSTEM. PROVIDE INDIVIDUAL SHUT OFF VALVES AT EACH FIXTURE AND EQUIPMENT ITEM.
3. **UNDERGROUND PIPING** ALL FERROUS PIPING BELOW GRADE (EXCEPT CAST IRON) SHALL HAVE PROTECTIVE COATING OF "ATHU-COAT". MINIMUM COVER FOR ALL BELOW GRADE PIPING SHALL BE 24".
4. **PIPING MATERIALS** PROVIDE NEW MATERIALS AS SPECIFIED. ALL PIPING MATERIALS SHALL BE COMPATIBLE WITH EXISTING PIPING MATERIAL. PROVIDE CONNECTIONS UTILIZING DIELECTRIC UNIONS BY EPDM OR BRASS NIPPLES WITH MINIMUM LENGTH OF 4 INCHES WHEN CONNECTING FERROUS TO NON-FERROUS PIPING.
- A. DOMESTIC WATER - HARD TEMPER SEAMLESS COPPER, ASTM B68, BRAZED JOINTS
 - B. GAS - BLACK STEEL, ASTM A120
 - C. SOIL, WASTE & VENT - CAST IRON, CISPI 301
 - D. CONDENSATE DRAIN - HARD TEMPER SEAMLESS COPPER, ASTM B68, BRAZED JOINTS
5. **PIPE SUPPORTS**
- A. PIPE HANGER, STEEL "J" HANGER WITH SIDE BOLT, PROVIDE ISOLATING SHIELD ON INSULATED PIPE, GALVANIZED STEEL AND REINFORCING RISER WITH 1/4" NON-CONDUCTING HAIR FELT PAD.
 - B. SPACING:

| PIPE SIZE | MAX SPACING |
|---------------|-------------|
| 1/2" - 1-1/2" | 8'-0" |
| 2" - 6" | 10'-0" |
6. **INSULATION** ALL HOT WATER PIPING TO BE INSULATED. WRAP ALL FITTINGS AND VALVES WITH PRE-CUT FIBERGLASS BLANKET TO THICKNESS MATCHING ADJOINING INSULATION. ALL INSULATION AND BLANKETS TO BE COVERED WITH PVC JACKET, SOLVENT WELD.
7. **VALVES** SIZE 2" AND SMALLER: RISING STEM, UNION BONNET. ALL BRONZE, WEDGE DISC, 125 WSP, STOCKHAM B-105, SIZE 2-1/2" AND LARGER: IRON BODY, BRONZE MOUNTED NON-RISING STEM, FLANGED 125 WSP, STOCKHAM G-812.
8. **PIPE INSULATION (MAXIMUM THERMAL CONDUCTIVITY - 0.23 BTU-IN/HR-FT²-F)** INSULATE HOT WATER PIPING WITH 1" THICK FIBERGLASS WITH ALL SERVICE JACKET.
9. **FIXTURES** ALL FIXTURES SHALL BE WHITE UNLESS OTHERWISE NOTED. ALL FIXTURES SHALL BE FURNISHED AND INSTALLED COMPLETE WITH TRIM, SEALS, CARRIERS, STOPS, ADA PROTECTIVE INSULATION, ETC. FIXTURE HEIGHT AND LOCATION AS INDICATED ON THE ARCHITECTURAL DRAWINGS. PROVIDE PROPER BACKING AND HANGER PLATES FOR WALL-HUNG FIXTURES.
10. **TESTS AND DISINFECTION** PERFORM ALL TESTS AND DISINFECTION AS REQUIRED BY APPLICABLE CODES IN PRESENCE OF PLUMBING INSPECTOR.



PLUMBING DETAILS



FLOOR DRAIN / SINK CONN. NTS 1



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MADERA USD
PARKWOOD ES KITCHEN

1155 E PECAN AVE, MADERA, CA 93607

PROJECT NO: 1343

PROJECT NAME:

DATE: 07/18/2023

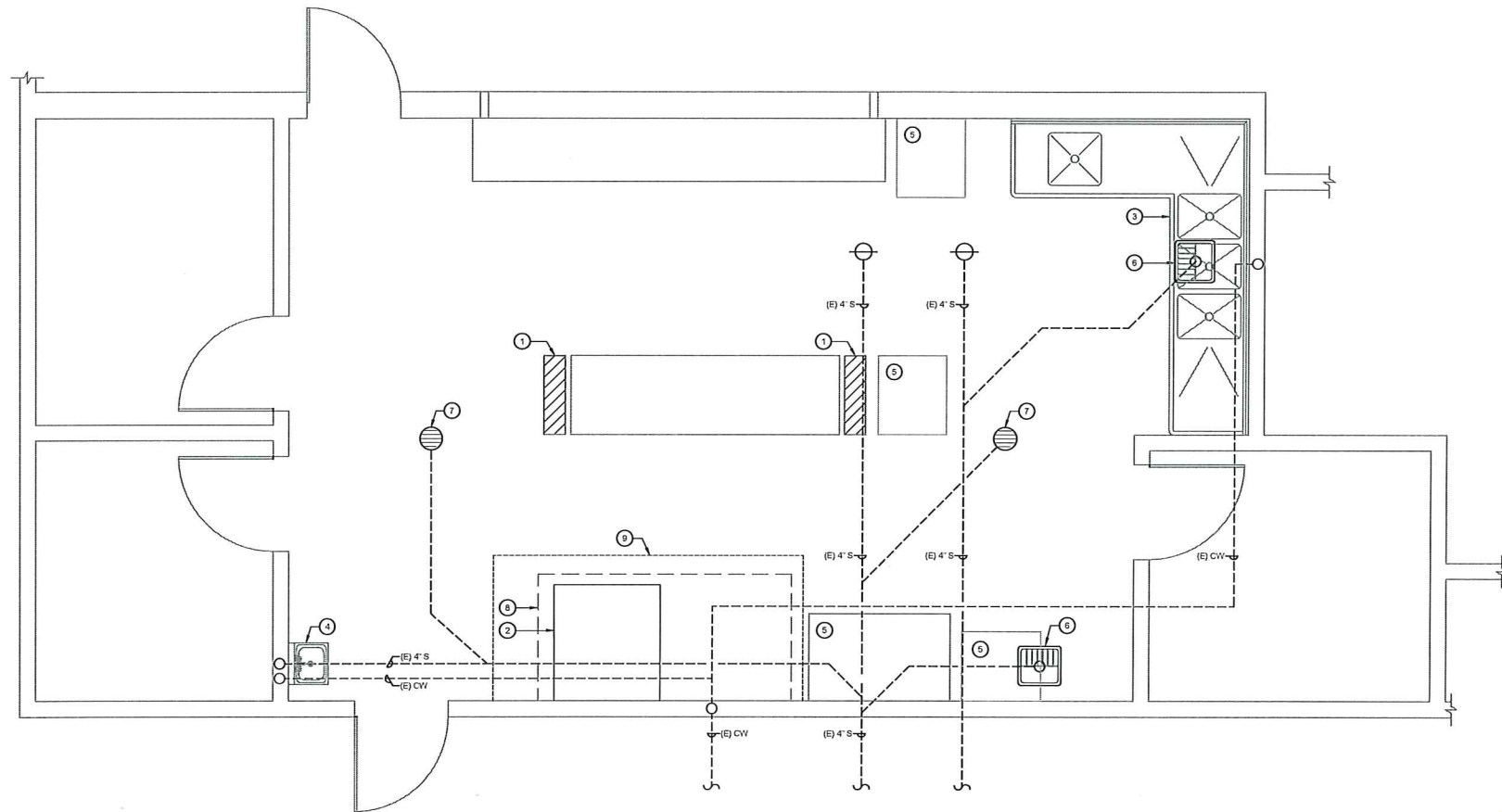
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PLUMBING
SPECIFICATIONS
AND
DETAILS

SHEET NO:

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PLUMBING DEMOLITION PLAN

1/2" = 1'-0"

1

KEYNOTES

1. CUT (E) CONCRETE SLAB ON GRADE TO REMOVE (E) CURB AND ELECTRICAL OUTLET. REMOVE ELECTRICAL WIRE BACK TO PANEL. REMOVE BREAKER, AND SHUT-OFF. PREPARE SOIL FOR NEW CONCRETE.
2. (E) CONVECTION OVEN TO BE REMOVED BY OWNER
3. (E) KITCHEN SINK TO REMAIN
4. (E) HAND WASH SINK TO REMAIN
5. (E) KITCHEN EQUIPMENT TO REMAIN
6. (E) FLOOR SINK TO REMAIN
7. (E) FLOOR DRAIN TO REMAIN
8. (E) KITCHEN HOOD TO REMAIN
9. CUT (E) CONCRETE FOR (N) FLOOR SINK, (N) TRENCH DRAIN, AND (N) PIPING. PREPARE SOIL FOR NEW CONCRETE.

GENERAL NOTES

- A. FIELD VERIFY SIZE AND LOCATION OF EXISTING LINES PRIOR TO COMMENCEMENT OF WORK



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PROJECT NAME:

MADERA USD
PARKWOOD ES KITCHEN

1190 E PECAN AVE, MADERA, CA 95337

PROJECT NO: 13493

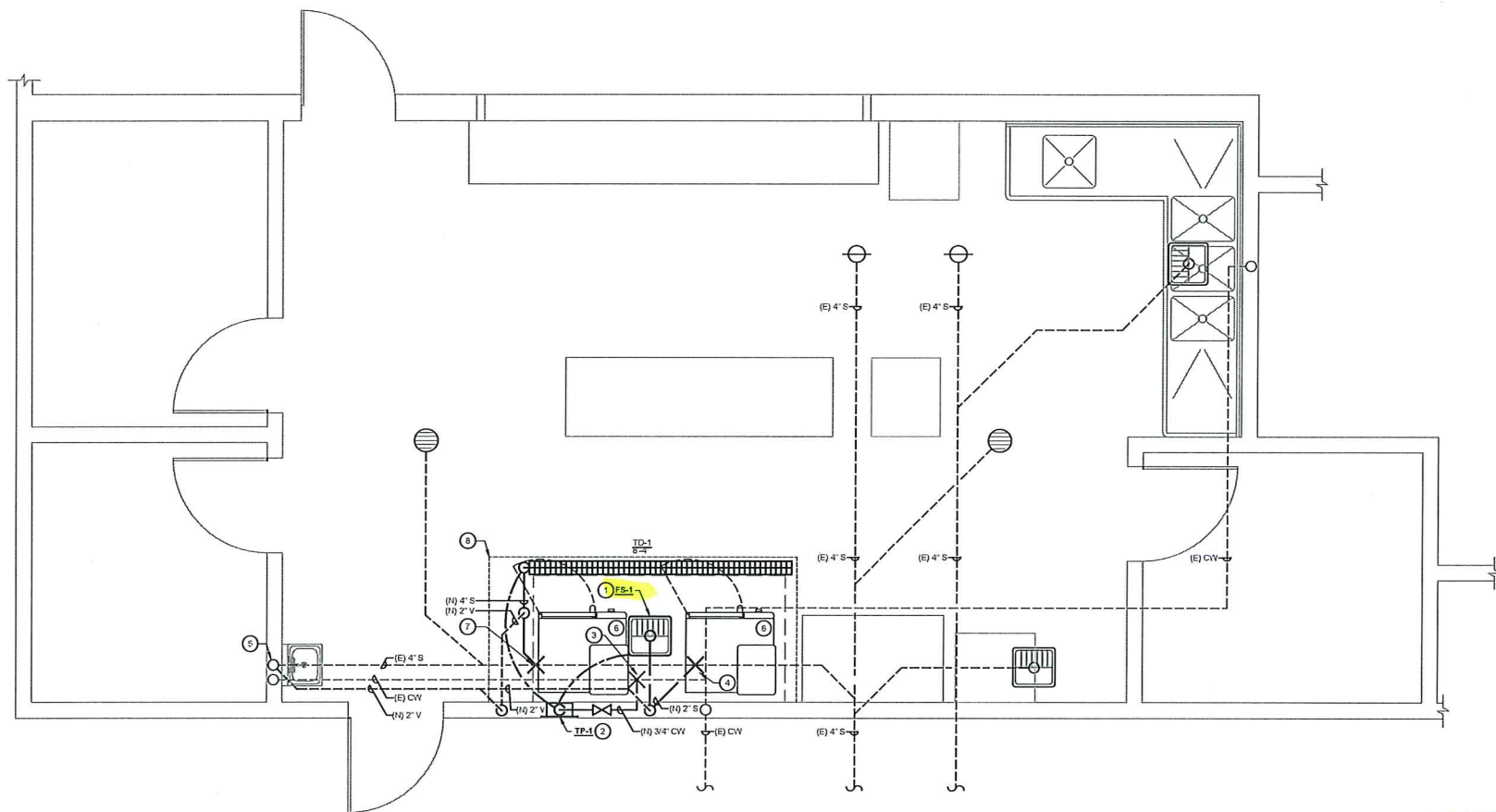
DATE: 07/18/2023

SHEET TITLE:

PLUMBING
DEMOLITION
PLAN

SHEET NO:

P200



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KEYNOTES

1. INSTALL (E) FLOOR SINK PER DETAIL 1/P002. FLOOR SINK LAYOUT TO BE FIELD VERIFIED BASED ON ACTUAL UNIT DIMENSIONS AND FINAL LAYOUT AS DETERMINED BY THE DISTRICT. FLOOR SINKS SHALL BE ACCESSIBLE AND VISIBLE FOR HEALTH DEPARTMENT INSPECTION.
2. PROVIDE (E) TRAP PRIMER. PROVIDE 12"x12" SS ACCESS PANEL.
3. POC OF (E) 3/4" CW TO (E) CW LINE.
4. POC OF (E) 2" S TO (E) 4" S.
5. CONNECT (E) 2" V TO (E) VENT ABOVE CEILING.
6. (E) OWNER FURNISHED ELECTRIC POWERED STEAM OVEN WITH POWER PROVIDED BY OWNER (POF). PROVIDE 1" MIN. AIR GAP FROM WATER DRAIN TO FLOOR SINK.
7. POC OF (E) 4" S TO (E) 4" S.
8. MATCH (E) SLOPE TO (E) SURFACES. PROVIDE DOWELS @ (E) JOINT.

GENERAL NOTES

- A. FIELD VERIFY SIZE AND LOCATION OF EXISTING LINES PRIOR TO COMMENCEMENT OF WORK



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REVISIONS:

| Symbol | Description |
|--------|-------------|
| --- | --- |
| Symbol | Description |
| --- | --- |
| Symbol | Description |
| --- | --- |

PROJECT NAME:

MADERA USD
PARKWOOD ES KITCHEN

1180 E PECAN AVE, MADERA, CA 93637

PROJECT NO: 1343

DATE: 07/18/2023

SHEET TITLE:

PROPOSED
PLUMBING
PLAN

SHEET NO:

P201

