

Addendum #1

Bid Number 23/24-29
Ward Elementary School Food Service Line

The changes made under this Addendum of the Contract Documents, Specifications, Special Provisions, and Plans for the above project Bid Packet are as follows:

Item 1. Contract Documents

1. Please include the attached Ward Food Service Line plans to project manual.
2. Update the Project Manual, Agreement (DOCUMENT 00 45 10-2), item "4. Classification of Contractor's License" to reflect a Type B California contractor's license. Remove Type C-39 and reference to Audio Enhancement and Extron certified and authorized dealer.

END OF DOCUMENT

Ward Elementary School Kitchen Upgrades For Downey Unified School District DOWNEY, CA

HEALTH DEPARTMENT SUBMISSION

Revision /
1

Date
5/18/23

Project:

WARD ELEMENTARY SCHOOL
KITCHEN UPGRADES
DOWNEY USD
8851 ADOREE STREET, DOWNEY, CA 90242



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COVER SHEET

| | |
|------------------------|-----------|
| VOLUME | |
| Job No. 01145-48-01 | Sheet No. |
| Drawn By: NZ | G1.01 |
| Date: 05-09-2023 | |

ABBREVIATIONS



INDEX OF SHEETS



LOS ANGELES COUNTY, CALIFORNIA TRUE

HEALTH DEPARTMENT SUBMISSION

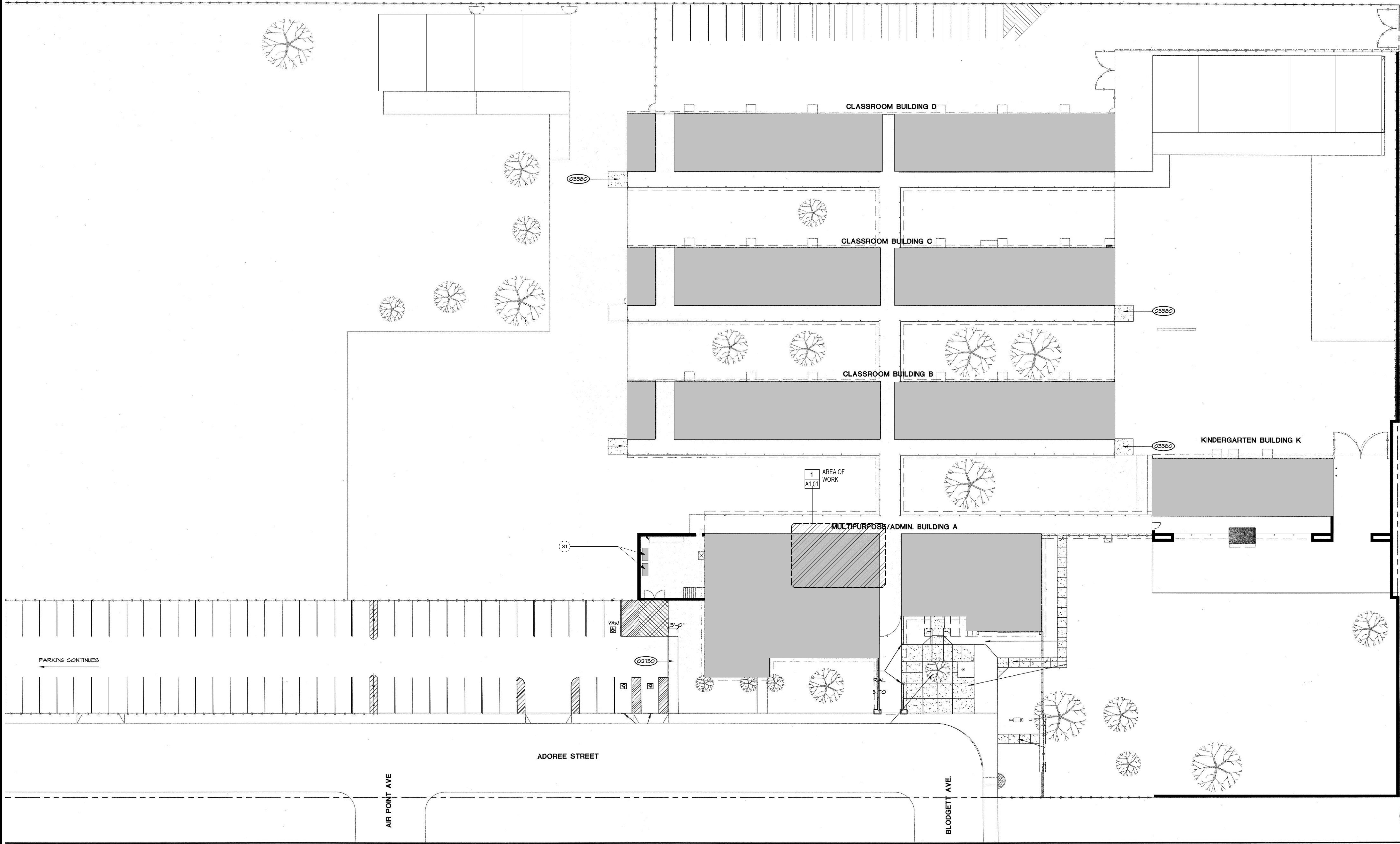
| Revision / | Date |
|------------|---------|
| 1 | 5/18/23 |

WARD ELEMENTARY SCHOOL
KITCHEN UPGRADES
DOWNEY USD
8851 ADOREE STREET, DOWNEY, CA 90242

Project:



| GENERAL DATA | |
|------------------------|-------------------------------|
| PACKAGE | VOLUME |
| Job No. 01145-48-01 | Sheet No. G1.02 |
| Drawn By: Author | |
| Date: 05-09-2023 | |



1 SITE PLAN
N.T.S.

SITE PLAN 1" = 20'-0" 1

SITE PLAN NOTES

SITE PLAN

S1 EXISTING WASTE STORAGE RECEPTACLE LOCATION

NOTES BY SYMBOL

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HEALTH DEPARTMENT SUBMISSION

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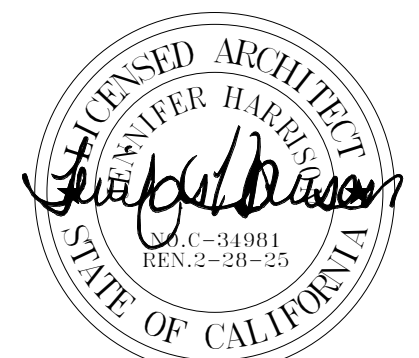
Project:

REGISTERED ARCHITECT
JAMES HUCKABEE
STATE OF CALIFORNIA
No. 10011
EXPIRATION DATE 12/31/2025

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ARCHITECTURAL SITE PLAN

| | |
|------------------------|----------------------------|
| Job No. 01145-48-01 | Sheet No. AS1.01 |
| Drawn By: Author | |
| Date: 05-09-2023 | |



DEMOLITION NOTES

DEMOLITION

D1. EXISTING 6" QUARRY TILE WITH 4" TALL, 3/8" RADIUS COVE BASE TO REMAIN. PROTECT IN PLACE. PATCH AND REPAIR IN KIND. AS REQUIRED.

D2. EXISTING VCT FLOORING TO REMAIN. PROTECT IN PLACE.

D3. EXISTING KITCHEN EQUIPMENT TO BE REMOVED AND REPLACED. RELINQUISH FURNITURE TO DISTRICT. PATCH AND REPAIR FLOORING IN KIND, AS REQUIRED.

D4. EXISTING FIRE EXTINGUISHER TO REMAIN IN PLACE.

D5. EXISTING ELECTRICAL PANEL TO REMAIN. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.

D6. EXISTING DRY STORAGE SHELVES TO REMAIN. PROTECT AND REINSTALL AS REQUIRED FOR NEW PAINTING.

D7. EXISTING FRP TO BE REMOVED REPLACED AT SAME LOCATION/HEIGHT WITH NEW. REMOUNT EQUIPMENT AS REQUIRED.

D8. KITCHENOVEN TO BE REMOVED AND SALVAGED FOR RE-INSTALLATION.

D9. REMOVE WALL-MOUNTED TACK BOARDS AND RELINQUISH TO DISTRICT. PATCH AND REPAIR WALL SURFACE AS REQUIRED.

D10. EXISTING 3-COMPARTMENT WAREWASHING SINK WITH DRY STORAGE RACKS UNDERNEATH TO REMAIN. PROTECT IN PLACE.

D11. REMOVE EXISTING TILE AND DEMO CONCRETE SLAB FOR INSTALLATION OF UNDERFLOOR DUCT. SEE E1.01 FOR MORE INFORMATION.

D12. EXISTING HANDWASHING SINK TO REMAIN. PROTECT IN PLACE.

D13. EXISTING FOOD PREPARATION SINK TO REMAIN. PROTECT IN PLACE.

D14. EXISTING DESK TO REMAIN. PROTECT AND REINSTALL AS REQUIRED FOR NEW PAINTING.

D15. EXISTING KETTLE STEAMER TO REMAIN. PROTECT AND REINSTALL AS REQUIRED FOR NEW PAINTING.

D16. EXISTING STOVE TO REMAIN. PROTECT IN PLACE.

D17. EXISTING HYDROVENT OVEN EQUIPMENT TO REMAIN. PROTECT IN PLACE.

D18. EXISTING WARMING CABINET TO REMAIN. PROTECT IN PLACE.

D19. EXISTING CABINETS TO REMAIN. PROTECT IN PLACE.

D20. EXISTING TABLE TOP/HANGING RACK TO REMAIN. PROTECT AND REINSTALL AS REQUIRED FOR NEW PAINTING.

D22. EXISTING MOP SINK TO REMAIN. PROTECT IN PLACE.

D23. CONTRACTOR TO VERIFY BACK FLOW PREVENTION DEVICE IS ON FAUCET, AND SHALL CARRY SUFFICIENT CONTINGENCY TO PROVIDE ONE IF NOT PRESENT.

D24. EXISTING WALL-IN REFRIGERATOR TO REMAIN.

D25. EXISTING WATER HEATER TO REMAIN.

D26. EXISTING LIGHT SWITCH ACTIVATED EXHAUST FAN TO REMAIN.

NOTES BY SYMBOL

FLOOR PLAN NOTES

WALLS

W1. FRP FROM TOP OF COVE BASE TO 48" AFF. REMOUNT/REINSTALL ALL FIXTURES, EQUIPMENT, ACCESSORIES, SURFACE MOUNTED CONDUIT, ETC. AS REQUIRED. REPAINT REMAINDER OF WALLS.

MISCELLANEOUS

M1. MILK COOLER, BEVERAGE AIR, MODEL ST49HC-1-S

M2. STEAM TABLE (SELF-CONTAINED) G.A. SYSTEMS, MODEL EST2

M3. SALAD BAR, G.A. SYSTEMS, EST84

M4. MERCHANDISING CABINET G.A. SYSTEMS INC, MODEL D2430

M5. HOLDING CABINET, HATCO, MODEL FSR30-W

M6. STRIP HEATER, HATCO, MODEL, GRA-42

M7. 12" TRAY SLIDE AND SNEEZE GUARD CENTERED AT 60" AFF

M8. RE-INSTALLED TACK BOARD ABOVE FRP PANELS

M9. EXISTING SELF-CLOSING DOOR TO REMAIN. PROTECT IN PLACE

M10. EXISTING FIXED WINDOWS TO REMAIN. PROTECT IN PLACE

M11. LOCKERS, 18X24X72, PROVIDE 3 LOCKER COMPARTMENTS VERTICALLY STACKED

M12. CHEMICAL SHELF AND MOP RACK, BOBROCK, MODEL B-239, MOUNT 60" AFF

FLOORS

F1. REPAIR CONCRETE SLAB AND EXISTING QUARRY TILE AS REQUIRED FOR FLUSH INSTALLATION OF DUCT (BELOW)

NOTES BY SYMBOL

PLUMBING LINE LEGEND

—C— COLD WATER LINE

—H— HOT WATER LINE

—S— SEWER LINE

F/S FLOOR SINK

FD FLOOR DRAIN

DEMOLITION GENERAL NOTES

A. BIDDERS SHALL VISIT SITE AND BE FAMILIAR WITH EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO EXISTING DIMENSIONS, EQUIPMENT, LOCATIONS, SIZES, QUANTITIES, AND MATERIALS.

B. EXISTING ELECTRICAL POWER SERVING THE EXISTING FACILITY SHALL REMAIN ON LINE. DISRUPTIONS REQUIRED FOR CONSTRUCTION TO BE COORDINATED WITH THE OWNER REPRESENTATIVE ASSIGNED TO THIS SPECIFIC PROJECT.

C. EXISTING DRAIN LINES SERVING THE EXISTING FACILITY SHALL REMAIN FUNCTIONAL. ANY DISRUPTIONS REQUIRED FOR NEW TIES DURING CONSTRUCTION MUST BE COORDINATED WITH THE OWNER REPRESENTATIVE ASSIGNED TO THIS SPECIFIC PROJECT.

D. CONTRACTOR SHALL COORDINATE EXACT SIZES AND LOCATIONS FOR MECHANICAL, PLUMBING, ELECTRICAL, AND TECHNOLOGY PENETRATIONS REQUIRED FOR NEW WORK WITH EACH RESPECTIVE TRADE.

E. CONTRACTOR SHALL KEEP OPENINGS TO THE EXTERIOR TEMPORARILY COVERED FOR PROTECTION FROM WATER.

F. CONTRACTOR SHALL KEEP OPENINGS TEMPORARILY COVERED FOR PEDESTRIAN SAFETY.

G. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF TEMPORARY SHORING AND BRACING REQUIRED FOR DEMOLITION.

H. REFER TO MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING SHEETS FOR ADDITIONAL PENETRATIONS AND OTHER RELATED DEMOLITION OR EQUIPMENT REMOVAL.

I. EXISTING CONSTRUCTION IS SHOWN BASED UPON OWNER FURNISHED PLANS. OWNERS FURNISHED SURVEYS, AND ON-SITE OBSERVATIONS. DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS WILL BE REPORTED TO THE ARCHITECT/ENGINEER/PROJECT MANAGER PRIOR TO PROCEEDING WITH WORK.

J. EXISTING CONSTRUCTION ADJACENT TO DEMOLITION WORK WILL BE PATCHED AND REPAIRED TO MATCH ORIGINAL CONDITION.

K. DEMOLITION WORK TIMES SHALL BE COORDINATED WITH THE OWNER REPRESENTATIVE ASSIGNED TO THIS SPECIFIC PROJECT.

L. THIS EXISTING FACILITY SHALL REMAIN FUNCTIONAL DURING THE COURSE OF THE DEMOLITION WORK. CONTRACTOR WILL MAINTAIN DUST BARRIERS, BARRICADES, PEDESTRIAN PROTECTION, WATER PROTECTION, AND SAFETY DEVICES IN PLACE AT ALL TIMES DURING AND AFTER DEMOLITION UNTIL NEW WORK IS INSTALLED.

M. CONTRACTOR SHALL MAINTAIN SITE DRAINAGE DEVICES AND COMPONENTS DURING THE COURSE OF DEMOLITION AND UP UNTIL NEW WORK IS IN PLACE. THIS INCLUDES, BUT IS NOT LIMITED TO, EXISTING SUB-SOIL DRAINAGE.

N. REFER TO MECHANICAL, ELECTRICAL, ROOF PLAN, AND OTHER DISCIPLINE DRAWINGS FOR ADDITIONAL DEMOLITION NOT SPECIFICALLY COVERED BY ARCHITECTURAL DEMOLITION PLANS, ESPECIALLY RELATIVE TO MODIFICATIONS TO EXISTING H.V.A.C. SYSTEMS.

O. DEMOLITION, AS NOTED, CONSISTS OF COMPLETE REMOVAL OF THE LISTED ITEMS, RELATED FASTENERS, AND ATTACHMENT MATERIALS LEAVING A CLEAN SURFACE READY TO RECEIVE NOTED MATERIALS OR SCHEDULED FINISHES.

P. UNLESS NOTED OTHERWISE, MATERIALS SHALL BE REMOVED FROM SITE AND DISPOSED OF AT CONTRACTORS EXPENSE. DISPOSAL WILL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL LAWS AND GUIDELINES.

Q. DEMOLITION SHALL FOLLOW THE CONSTRUCTION SCHEDULE PROVIDED IN THE SPECIFICATIONS.

R. PRECAUTIONS SHALL BE TAKEN TO SEPARATE STUDENTS, SCHOOL STAFF, AND VISITORS FROM DEMOLITION AND CONSTRUCTION EFFORTS, ACTIVITIES, AND WORK, TO PROTECT THEIR HEALTH AND SAFETY.

S. ADDITIONAL MATERIALS, WHERE CONSTRUCTION ADJOINS EXISTING, NOT SPECIFICALLY IDENTIFIED IN THE DEMOLITION PLANS, WILL BE REMOVED AS REQUIRED TO COMPLETE THE CONSTRUCTION. THESE MATERIALS TYPICALLY INCLUDE MATERIAL PROTECTION BEYOND THE FACE OF THE WALL, INCLUDING BRICK SILLS, OTHER PROJECTIONS, AND ROOF FLASHINGS, GUTTERS, AND TRIMS. REFER TO WALL SECTIONS FOR SPECIFIC CONDITIONS.

T. INVESTIGATE EACH WALL SUBJECT TO DEMOLITION TO DETERMINE IF IT IS USED FOR BEARING. COORDINATE WITH CONSTRUCTION SEQUENCE AND PROVIDE SHORING AT ANY WALL CARRYING STRUCTURAL LOAD TO PREVENT COLLAPSE UNTIL NEW STRUCTURE IS IN PLACE.

U. OWNER RESERVES FIRST RIGHT TO RETAIN AND KEEP ANY EXISTING ITEMS REMOVED AS A PART OF THE DEMOLITION WORK.

V. GENERAL CONTRACTOR SHALL COORDINATE THE REMOVAL OF ALL TECHNOLOGY AND COMMUNICATION DEVICES INCLUDING INTERCOM SPEAKERS, CLOCKS, WIRELESS ACCESS POINTS, DEVICES, CAFETERIA SPEAKERS, PROJECTORS, PROJECTOR PLATES, AUDIO-VIDEO CABLING, INTELLIGENT BOARDS, SCREENS, ETC WITH THE SOUND, INTERCOM AND TECHNOLOGY CONTRACTORS. THIS WORK MUST BE DONE PRIOR TO REMOVAL OF CEILING TILE OR OTHER CEILING AND PLENUM WORK.

W. GATHER AND TEMPORARILY NEATLY AND LOOSELY COIL AND SUSPEND ALL EXISTING TO-REMAIN PLENUM-RELATED CABLING FROM EXISTING STRUCTURE.

X. ALL TECHNOLOGY AND LOW-VOLTAGE CABLING IN THE PLENUM SHALL REMAIN IN PLACE. ANY DAMAGE TO THIS CABLING SHALL HAVE NEW CABLING PLACED BY THE PROPER TRADE CONTRACTOR AT THE SOLE EXPENSE OF THE CONTRACTOR THAT DAMAGED THE CABLING. ALL CABLES HAVE BEEN TESTED PRIOR TO RENOVATION WORK AND ALL WILL BE TESTED AFTER THE WORK IS COMPLETED.

DEMOLITION LEGEND

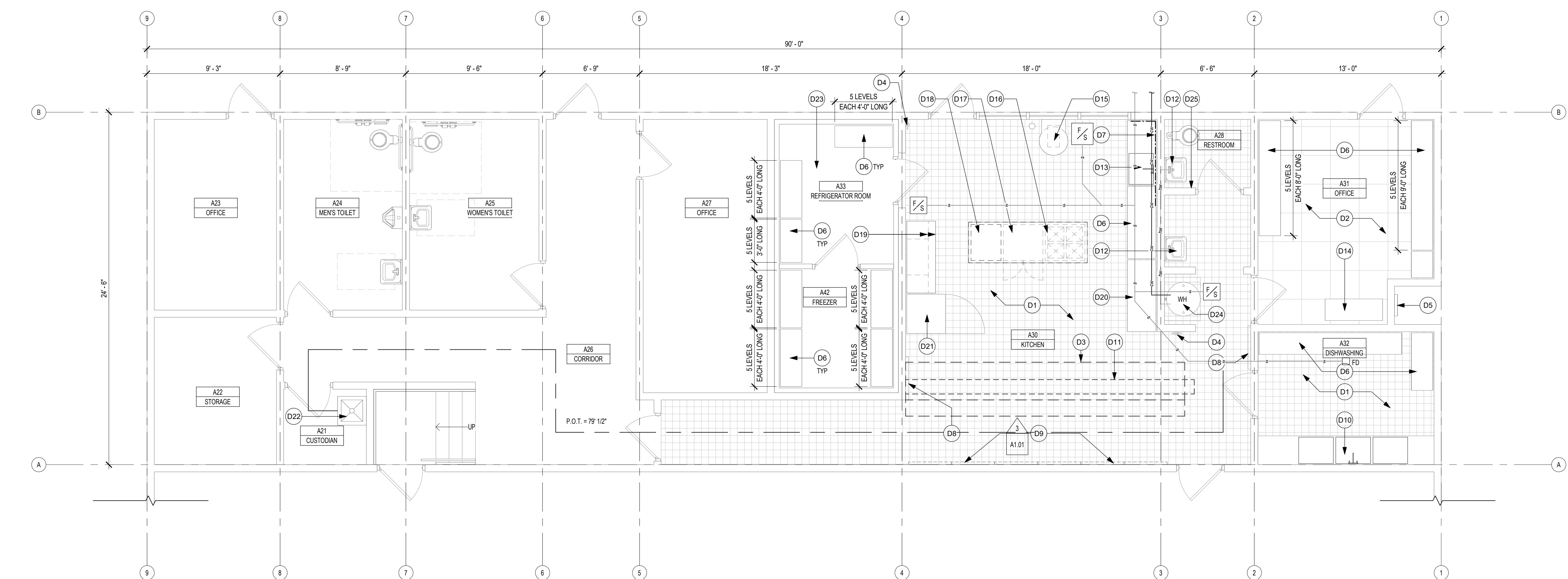
— — — EXISTING PARTITION TO BE REMOVED, INCLUDING BASE, DOORS, WINDOWS, OUTLETS, DEVICES, SWITCHES, CHALK/TACK BOARDS, POWER POLES, WALL CAPS AND ANY ITEM ATTACHED TO OR ASSOCIATED WITH THE PARTITION. CONTRACTOR WILL VERIFY ELECTRICAL, MECHANICAL, & PLUMBING IN EXISTING WALLS & TERMINATE OR RELOCATE AS REQUIRED FOR CONTRACT WORK. PATCH, REPAIR & CLEAN ALL ADJACENT WALLS AND PREPARE TO RECEIVE NEW PARTITION WALLS AS SHOWN ON FLOOR PLANS.

— — — EXISTING DOOR, FRAME, AND HARDWARE TO BE REMOVED UNLESS OTHERWISE NOTED.

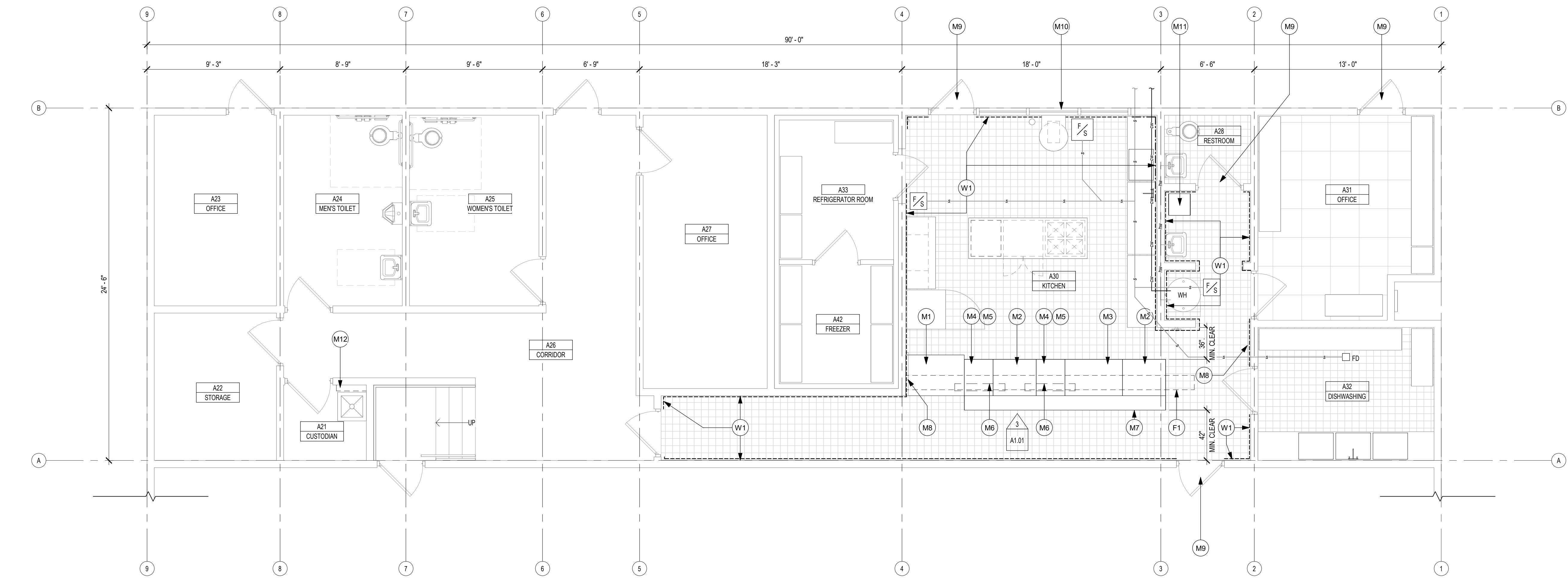
— — — EXISTING ITEM TO BE REMOVED AS NOTED.

— — — EXISTING WALL / PARTITION TO REMAIN.

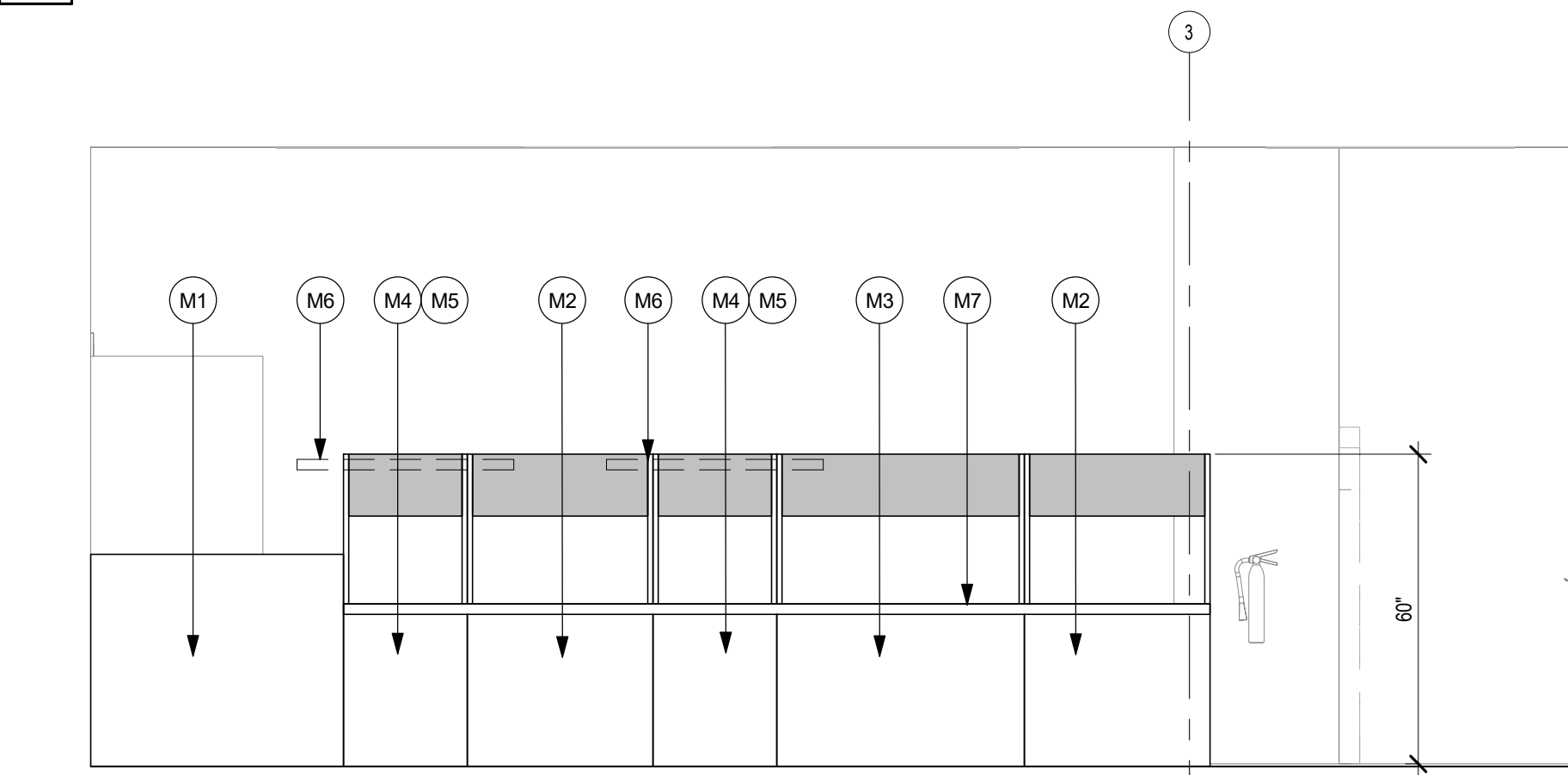
— — — EXISTING DOOR, FRAME, AND HARDWARE TO REMAIN.



1 DEMO PLAN - KITCHEN
1/4" = 1'-0"



2 FLOOR PLAN - KITCHEN
1/4" = 1'-0"



3 KITCHEN ELEVATION
3/8" = 1'-0"

FINAL INSPECTION AND APPROVAL ARE REQUIRED PRIOR TO THE START OF OPERATION. THE DEPARTMENT REQUIRES AT LEAST THREE WORKING DAYS NOTICE PRIOR TO THE DATE OF THE FINAL INSPECTION.

BEFORE STARTING CONSTRUCTION, A BUILDING PERMIT MUST BE OBTAINED FROM YOUR BUILDING AND SAFETY DEPARTMENT

ANY CHANGES TO APPROVED PLAN MUST BE BROUGHT TO YOUR PLAN CHECKERS ATTENTION

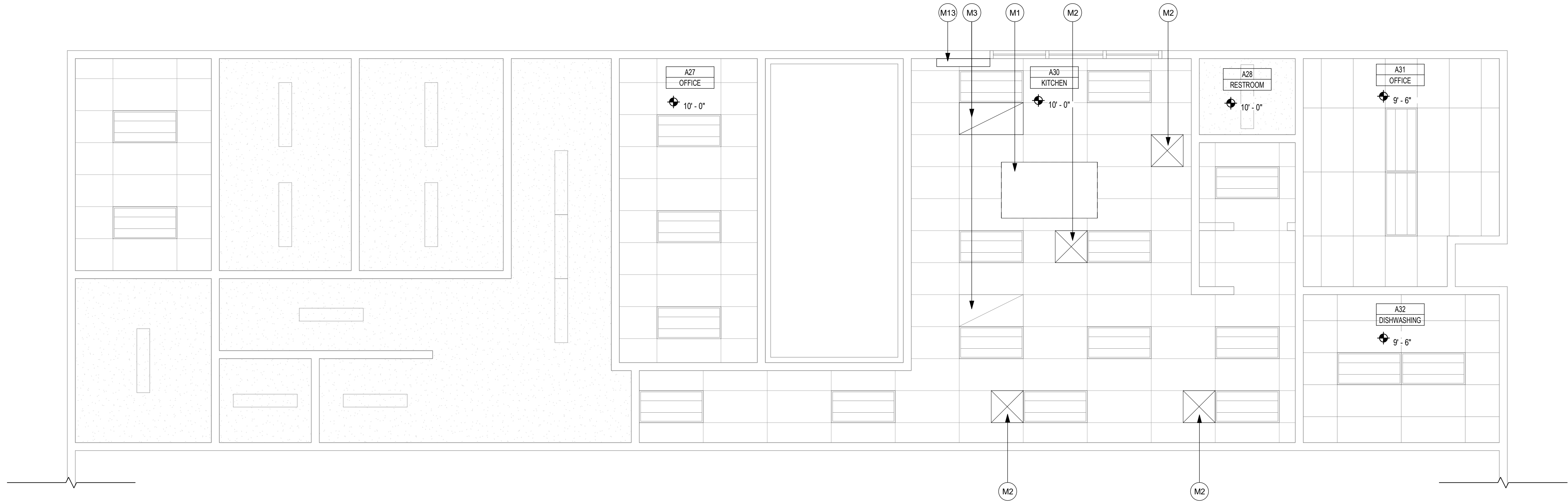
WARNING!!
IT IS MISDEMEANOR VIOLATION TO BEGIN OPERATION WITHOUT A FINAL INSPECTION AND A VALID HEALTH PERMIT/LICENSE. YOUR HEALTH PERMIT/LICENSE WILL BE ISSUED BY LA COUNTY HEALTH OFFICER AT THE JOB SITE. REMODELED AREAS OF EXISTING FOOD ESTABLISHMENT/FACILITY MUST ALSO HAVE A FINAL INSPECTION.

COUNTY OF LOS ANGELES - DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH - PLAN CHECK PROGRAM
THE PROPOSED CONSTRUCTION/EQUIPMENT INSTALLATION IS
APPROVED: RESTAURANT/ SR0339736

TYPE OF ESTABLISHMENT/SERVICE REQUEST#
THE APPROVAL DOES NOT AUTHORIZE THE VIOLATION OF ANY
LAW, ORDINANCE OR REGULATION.
APPROVED 12/12/2023 BY: Yeran Aymazian
DATE: PLAN CHECK INSPECTOR
(SEE PLAN APPROVAL SHEET, ATTACHED)

LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC HEALTH
PLAN CHECK PROGRAM
5650 COMMERCE DR
SALADIN PARK, CA 91706
(626) 430-5560

| A4 - ROOM FINISH SCHEDULE - SECTION 1 | | | | | |
|---------------------------------------|-------------------|------------------------------|-----------------------|--|--|
| NUMBER | ROOM | Floor Finish | Cove Base 3/8" Radius | Wall Finish | Ceiling Finish |
| A28 | RESTROOM | (E) SMOOTH QUARRY TILE | (E) 4" QUARRY TILE | SEMI GLOSS PAINT (COLOR TBD) | SMOOTH GYPSUM BOARD SEMI GLOSS PAINT (COLOR TBD) |
| A30 | KITCHEN | (E) SMOOTH QUARRY TILE | (E) 4" QUARRY TILE | FIBERGLASS REINFORCED PANELS (FRP); WHITE TO 48" AFF; SEMI GLOSS PAINT (COLOR) TBD | (E) CEILING TILES, NONFISSURED, SMOOTH, WHITE |
| A31 | OFFICE | (E) SMOOTH VCT | (E) 4" RUBBER | SEMI GLOSS PAINT (COLOR TBD) | (E) CEILING TILES, NONFISSURED, SMOOTH, WHITE |
| A32 | DISHWASHING | (E) SMOOTH QUARRY TILE | (E) 4" QUARRY TILE | (E) FIBERGLASS REINFORCED PANELS (FRP); WHITE TO 72" AFF; NEW SEMI GLOSS PAINT (COLOR) TBD | (E) CEILING TILES, NONFISSURED, SMOOTH, WHITE |
| A33 | REFRIGERATOR ROOM | (E) PREFABRICATED SMOOTH S/S | (E) 6" S/S | (E) SMOOTH S/S | (E) SMOOTH S/S |
| A42 | FREEZER | | | | |



1 EXISTING CEILING PLN
1/4" = 1'-0"

CEILING PLAN NOTES

MECHANICAL

- M1. EXISTING EXHAUST HOOD SYSTEM TO REMAIN. REFER TO SHEET M1.02 FOR ADDITIONAL INFORMATION
- M2. EXISTING EXHAUST TO REMAIN
- M3. EXISTING SUPPLY TO REMAIN
- M13. AIR CURTAIN BY MASS AIR, PHANTOM 12 SERIES. SEE ELECTRICAL DRAWINGS FOR ADDITION INFORMATION

NOTES BY SYMBOL

- 1. COORDINATE REFLECTED CEILING PLANS WITH MECHANICAL AND ELECTRICAL DRAWINGS TO AVOID CONFLICTS. VERIFY EXACT MOUNTING LOCATIONS OF ALL CEILING MOUNTED EQUIPMENT PRIOR TO INSTALLATION. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR VERIFYING ALL ITEMS, EQUIPMENT, AND/OR DEVICES AT CEILING.
- 2. PERIMETER WALLS AND/OR PERIMETER PARTITIONS OF ALL SPACES WITH EXPOSED STRUCTURE SHALL EXTEND TO BOTTOM OF DECK ABOVE. FINISH EXPOSED STRUCTURE AS SCHED.
- 3. CEILINGS AND GRIDS AT ALL MDPS AND IDF'S SHALL BE HELD OFF OF DISTRIBUTION WALL 6" TO ACCOMMODATE CABLING.
- 4. PROVIDE 24"x24" ACCESS PANEL(S) IN ALL HARD CEILINGS FOR MAINTENANCE OF EQUIPMENT
- 5. ALL DIMENSIONS SHOWN ON REFLECTED CEILING PLAN DRAWINGS ARE FROM FACE OF FINISH U.N.O.

REFLECTED CEILING PLAN GENERAL NOTES

- EXISTING 2' X 4' ACT SYSTEM
- EXISTING GYPSOBOARD CEILING
- EXISTING 2' X 4' CEILINGLIGHT
- EXISTING 4' X 10' CEILING LIGHT

WHERE THIS HATCH IS SHOWN, PROVIDE A FIRE-RATED CEILING ASSEMBLY AS DETAILED AND NOTED. REFER TO PLAN NOTES AND CONSTRUCTION DETAILING FOR TERMINATION POINT OF ADJACENT FIRE-RATED WALL ASSEMBLIES. RATING SHALL EQUAL THAT OF SURROUNDING WALLS.

REFLECTED CEILING LEGEND

HEALTH DEPARTMENT SUBMISSION

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EXISTING CEILING PLAN

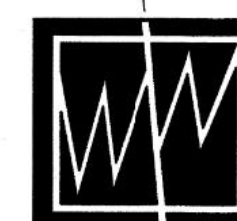
| PACKAGE | | VOLUME | |
|-----------|-------------|-----------|-------|
| Job No. | 01145-48-01 | Sheet No. | A1.02 |
| Drawn By: | | | |
| Author | | | |
| Date: | 05-09-2023 | | |

AIR DISTRIBUTION SCHEDULE

| SYM. | MFR. & MODEL # | NECK SIZE | CFM RANGE | MAX. NECK VELOCITY | MAX. N.C. | S.P. DROP | TYPE | DAMPER | REMARKS |
|-------|-----------------------------------|--|--|--------------------|-----------|-----------|------------------|--------|----------------------------------|
| RE-2 | KRUEGER 1240P | 8"x8" 10"x10" 12"x12" 14"x14" 16"x16" 18"x18" | 0-170 171-270 271-390 391-540 541-700 701-920 | 400 | 30 | .06 | MODULAR PERFOR. | NONE | FRAME 23 FOR T-BAR |
| RE-3 | KRUEGER 1240P | 8"x8" 10"x10" 12"x12" 14"x14" 16"x16" | 0-170 171-270 271-390 391-540 541-700 | 400 | 30 | .06 | MODULAR PERFOR. | NONE | FRAME 22 FOR GYP. BOARD CEILING |
| RE-4 | AR. DISTRIBUTION PRODUCTS (DMS-M) | 20"x20" | 0-3600 | 500 | 30 | .05 | DROP BOX | NONE | - |
| RE-5 | KRUEGER 180-4 | 8"x8" 10"x10" 12"x12" 14"x14" 16"x16" | 0-170 171-270 271-390 391-540 541-700 | 400 | 30 | .06 | ADJ. CRVD. BLADE | NONE | FRAME 22 FOR GYP. BOARD CEILING |
| RE-6 | KRUEGER 1190 | 22"x22" | 0-1400 | 400 | 30 | .03 | PERFOR. | NONE | FRAME 23 FOR T-BAR |
| RE-7 | KRUEGER 1190 | 22"x22" | 0-2200 | 600 | 35 | .10 | PERFOR. | NONE | 24"x48" PANEL/FRAME 23 FOR T-BAR |
| RE-8 | KRUEGER 1190 | 22"x22" | 0-1400 | 400 | 30 | .03 | PERFOR. | NONE | FRAME 23 FOR T-BAR |
| RE-9 | KRUEGER F-1190 | 8"x8" 10"x10" 12"x12" 14"x14" | 0-170 171-270 271-390 391-540 | 400 | 30 | .06 | PERFOR. | NONE | FRAME 22 FOR GYP. BOARD CEILING |
| RE-10 | KRUEGER 580H | 12"x12" 14"x14" | 0-500 600 | 400 | 30 | .03 | 45 DEG. | O.B.D. | FRAME 22 FOR GYP. BOARD CEILING |

WALL MOUNTED A/C UNIT SCHEDULE

| SYM. | MODEL # | COOLING CAPACITY | SEER | HEATING CAPACITY | | TOTAL CFM | O.S.A. CFM | ESP | BLOWER HP. | V | PH | FLA | CKT. BRKR. | WT. | REMARKS |
|-----------|--------------|------------------|------|------------------|--------|-----------|------------|-----|------------|-----|----|------|------------|-----|---|
| AC1 | BARO W6501-B | 60,000 | 10.5 | 75,000 | 60,750 | 1,650 | 450 | 0.3 | 1/2 | 208 | 3 | 24.9 | 45 | 640 | FACTORY WALL SLEEVE, BUILT-IN CIRCUIT BRKR., 2" FILTERS, SPRING RETURN (NOVOS). |
| AC2 | BARO W6501-B | 60,000 | 10.5 | 75,000 | 60,750 | 1,650 | 450 | 0.3 | 1/2 | 208 | 3 | 24.9 | 45 | 640 | |
| AC3AC4 | BARO W6501-B | 60,000 | 10.5 | 75,000 | 60,750 | 1,850 | 450 | 0.2 | 1/2 | 208 | 3 | 24.9 | 45 | 640 | |
| AC5AC6 | BARO W6501-B | 60,000 | 10.5 | 75,000 | 60,750 | 1,850 | 450 | 0.2 | 1/2 | 208 | 3 | 24.9 | 45 | 640 | |
| AC7AC8 | BARO W6421-B | 42,000 | 10.5 | 75,000 | 61,000 | 1,300 | 450 | 0.3 | 1/2 | 208 | 3 | 18.4 | 35 | 640 | |
| AC9 | BARO W6501-B | 60,000 | 10.5 | 75,000 | 60,750 | 1,650 | 450 | 0.2 | 1/2 | 208 | 3 | 24.9 | 45 | 640 | |
| AC10 | BARO W6421-B | 42,000 | 10.5 | 75,000 | 61,000 | 1,300 | 450 | 0.3 | 1/2 | 208 | 3 | 18.4 | 35 | 640 | |
| AC11AC12 | BARO W6501-B | | | | | | | | | | | | | | |
| AC13AC14 | BARO W6501-B | | | | | | | | | | | | | | |
| AC15AC16 | BARO W6501-B | | | | | | | | | | | | | | |
| AC17AC18 | BARO W6501-B | | | | | | | | | | | | | | |
| AC19AC20 | BARO W6501-B | | | | | | | | | | | | | | |
| AC21AC22 | BARO W6501-B | | | | | | | | | | | | | | |
| AC23AC24 | BARO W6501-B | | | | | | | | | | | | | | |
| AC25AC26 | BARO W6501-B | | | | | | | | | | | | | | |
| AC27AC28 | BARO W6501-B | | | | | | | | | | | | | | |
| AC29AC30 | BARO W6501-B | | | | | | | | | | | | | | |
| AC31AC32 | BARO W6501-B | | | | | | | | | | | | | | |
| AC33AC34 | BARO W6501-B | | | | | | | | | | | | | | |
| AC35AC36 | BARO W6501-B | | | | | | | | | | | | | | |
| AC37AC38 | BARO W6501-B | | | | | | | | | | | | | | |
| AC39AC40 | BARO W6501-B | | | | | | | | | | | | | | |
| AC41AC42 | BARO W6501-B | | | | | | | | | | | | | | |
| AC43AC44 | BARO W6501-B | | | | | | | | | | | | | | |
| AC45AC46 | BARO W6501-B | | | | | | | | | | | | | | |
| AC47AC48 | BARO W6501-B | | | | | | | | | | | | | | |
| AC49AC50 | BARO W6501-B | | | | | | | | | | | | | | |
| AC51AC52 | BARO W6501-B | | | | | | | | | | | | | | |
| AC53AC54 | BARO W6501-B | | | | | | | | | | | | | | |
| AC55AC56 | BARO W6501-B | | | | | | | | | | | | | | |
| AC57AC58 | BARO W6501-B | | | | | | | | | | | | | | |
| AC59AC60 | BARO W6501-B | | | | | | | | | | | | | | |
| AC61AC62 | BARO W6501-B | | | | | | | | | | | | | | |
| AC63AC64 | BARO W6501-B | | | | | | | | | | | | | | |
| AC65AC66 | BARO W6501-B | | | | | | | | | | | | | | |
| AC67AC68 | BARO W6501-B | | | | | | | | | | | | | | |
| AC69AC70 | BARO W6501-B | | | | | | | | | | | | | | |
| AC71AC72 | BARO W6501-B | | | | | | | | | | | | | | |
| AC73AC74 | BARO W6501-B | | | | | | | | | | | | | | |
| AC75AC76 | BARO W6501-B | | | | | | | | | | | | | | |
| AC77AC78 | BARO W6501-B | | | | | | | | | | | | | | |
| AC79AC80 | BARO W6501-B | | | | | | | | | | | | | | |
| AC81AC82 | BARO W6501-B | | | | | | | | | | | | | | |
| AC83AC84 | BARO W6501-B | | | | | | | | | | | | | | |
| AC85AC86 | BARO W6501-B | | | | | | | | | | | | | | |
| AC87AC88 | BARO W6501-B | | | | | | | | | | | | | | |
| AC89AC90 | BARO W6501-B | | | | | | | | | | | | | | |
| AC91AC92 | BARO W6501-B | | | | | | | | | | | | | | |
| AC93AC94 | BARO W6501-B | | | | | | | | | | | | | | |
| AC95AC96 | BARO W6501-B | | | | | | | | | | | | | | |
| AC97AC98 | BARO W6501-B | | | | | | | | | | | | | | |
| AC99AC100 | BARO W6501-B | | | | | | | | | | | | | | |



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PROJECT NAME:

Ward Elementary School
District Wide Modernization
8851 Adoree Street
Downey, CA 90242

CLIENT:

**DOWNEY UNIFIED
SCHOOL DISTRICT**
11627 BROOKSHIRE AVENUE
DOWNEY, CALIFORNIA 90241

| No. | Rev. | Date | Description |
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JOB NO: 8840

DATE: AUGUST 8, 2001

DRAWN:

CHECK:

ARCHITECT:

ENGINEER: BP & ASSOCIATES

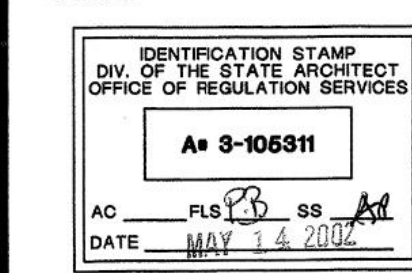
ARCHITECT:



CONSULTANT:



STATE:



SHEET DESCRIPTION:
MECHANICAL FLOOR PLANS
MULTI-PURPOSE ADMIN.
AND KINDERGARDEN

SHEET NO:

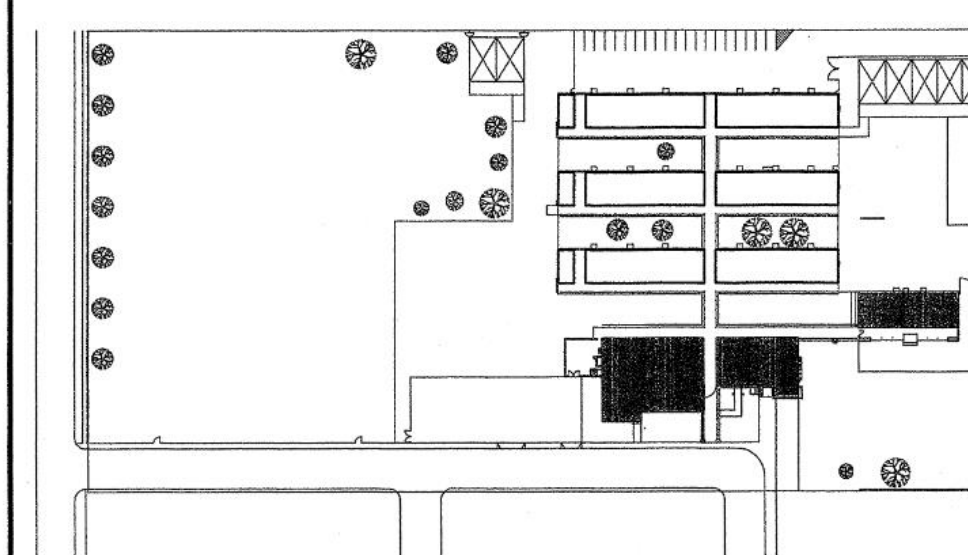
OF: M201

DESIGN NOTES

- TEMPERATURE SENSOR. MOUNT IN RETURN DUCT.
- OVERRIDE SENSOR. MOUNT AT 48" A.F.F.
- 8" EXHAUST AIR DUCT UP THRU' ROOF TO ROOF CAP.
- 8" EXHAUST AIR DUCT UP THRU' ROOF TO ROOF CAP.
- TEMPERATURE SENSOR. MOUNT AT 48" A.F.F.
- EXHAUST FAN CONTROL SWITCH MOUNT AT 48" A.F.F.
- EXISTING EXHAUST HOOD SYSTEM TO REMAIN. REPLACE EXISTING EXHAUST FAN MOTOR WITH NEW UP SIZE TO NEXT SIZE MOTOR.
- 16"X18" EXHAUST LOUVER (BY G.C.). COORDINATE EXACT LOCATION AND ELEVATION WITH OTHER TRADES.
- 10"X10" FRESH-AIR DUCT UP THRU' ROOF TO FRESH-AIR INTAKE.
- 10"X8" TRANSFER GRILLE WITH AUTOMATIC FIRE DAMPER. INSTALL AS HIGH AS POSSIBLE IN CUSTODIAN.
- 20" X 14" LINED SUPPLY AND 13" X 32" LINED RETURN AIR DUCTS UP THRU' ROOF TO ROOF TOP UNIT.
- 11" X 17" LINED SUPPLY AND 12" X 17" LINED RETURN AIR DUCTS UP THRU' ROOF TO ROOF TOP UNIT.
- 18"X18" SUPPLY AIR DUCT UP THRU' ROOF TO EVAPORATIVE COOLER.
- PLACE BOTTOM OF WALL MOUNTED HEAT PUMP IN EXISTING WINDOW ABOVE TOP OF DOOR. FIELD VERIFY EXACT UNIT HEIGHT.

NOTES

- LINED SUPPLY PLENUM SHALL BE MINIMUM 8 FT. LONG - WHERE OCCURS.
- CONTRACTOR TO UTILIZE EXISTING ROOF PENETRATIONS WHERE POSSIBLE. G.C. SHALL MODIFY AS REQUIRED FOR NEW DUCT WORK.
- SEE ARCHITECTURAL DRAWINGS FOR LOUVER PLACEMENT.
- ALL OVERRIDE SWITCH LOCATIONS SHALL BE VERIFIED WITH DISTRICT PRIOR TO INSTALLATION.
- FRESH AIR INTAKE(S) SHALL BE 10'-0" (MIN.) AWAY OR 3'-0" (MIN.) BELOW ANY EXHAUST VENT.
- SEE SHEET M301 FOR MECHANICAL CONSTRUCTION DETAILS.
- ALL AIR CONDITIONING (AC) UNIT ENERGY MANAGEMENT SYSTEM (EMS) CONTROLS (INCLUDING CONTROLS CONDUIT, WIRING, AND OTHER REQUISITE CONTROLS COMPONENTS) SHALL BE FURNISHED AND INSTALLED BY DISTRICT EHS CONTRACTOR.

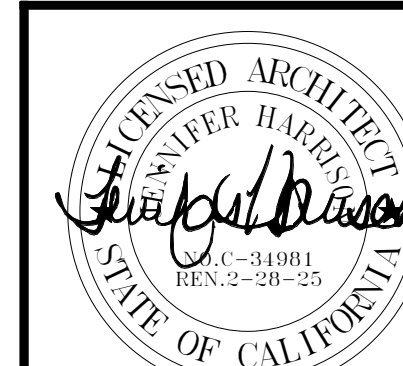
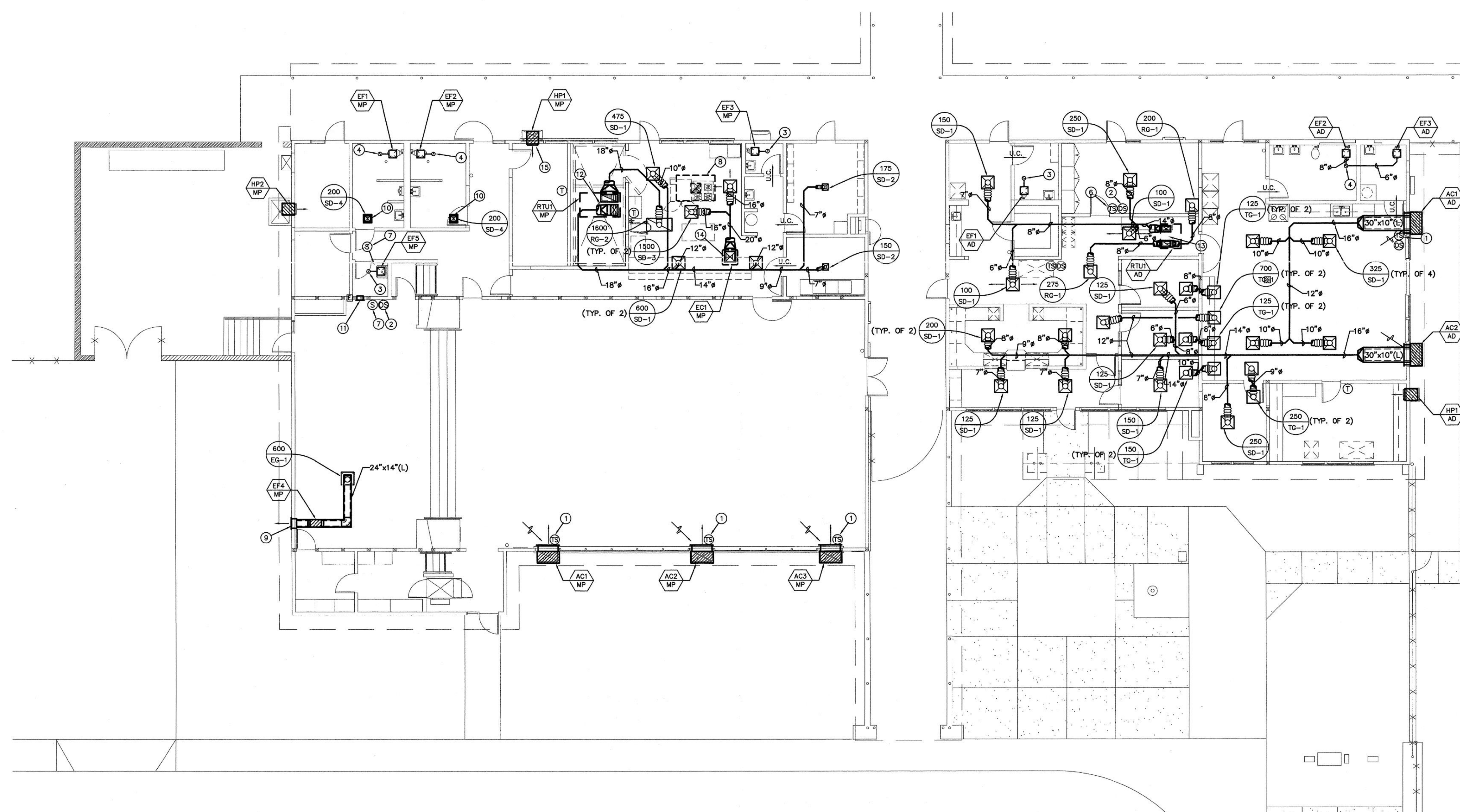


KEY PLAN

MULTI-PURPOSE/ADMINISTRATION - BUILDING A

1/8" = 1'-0"

1



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EXISTING MECHANICAL
SYSTEM - FOR REFERENCE
ONLY

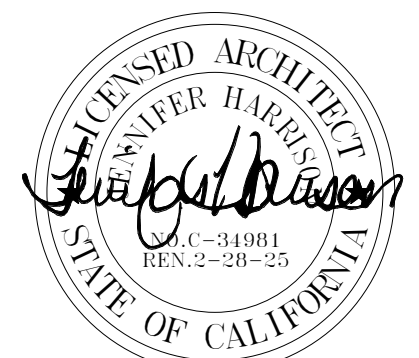
PACKAGE VOLUME

Job No.
01145-48-01 Sheet No.

Drawn By:
Author

Date:
05-09-2023

M1.02



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JOB NO.: 8840

DATE: AUGUST 8, 2001

DRAWN: J.J.

CHECK: T.P.

ARCHITECT:

ENGINEER: BP & ASSOCIATES

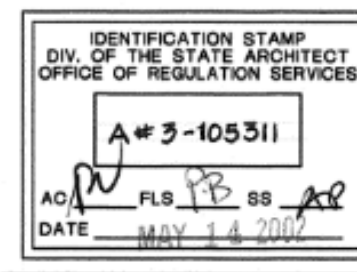
ARCHITECT:



CONSULTANT:



STATE:



SHEET DESCRIPTION:
LEGEND, SCHEDULES
AND GENERAL NOTES

SHEET NO.:

OF: P000

FIXTURE SCHEDULE

| ITEM | FIXTURE | ROUGH-IN CONNECTIONS | | | | | | DESCRIPTION | ITEM | FIXTURE | ROUGH-IN CONNECTIONS | | | | | | DESCRIPTION |
|------|--------------------------------|----------------------|-------|--------|-----------|------------|-----|---|-------|------------------------|----------------------|-------|--------|-----------|------------|-----|--|
| | | TRAP | WASTE | VENT | HOT WATER | COLD WATER | GAS | | | | TRAP | WASTE | VENT | HOT WATER | COLD WATER | GAS | |
| WC 1 | WATER CLOSET | INT | 4" | 2" | --- | 1" | --- | A/S NO. 2234.015 "MADERA", AQUAMETER SIPHON JET, FLOOR MOUNTED, ELONGATED BOWL, 15" HIGH TO SEAT, COMPLETE WITH SLOAN NO. 111-1.5-YB-YC-YK FLUSH VALVE, WITH SUPPORT, OLSONITE NO. 850C-SS SEAT AND A/S BOLT CAPS. | WHA 1 | WATER HAMMER ARRESTOR | --- | --- | --- | --- | --- | --- | ZURN Z-1700 SERIES "HYDROTROL" WATER HAMMER ARRESTOR COMPLETE BEHIND ACCESS PANEL. INSTALL PER MANUFACTURER'S RECOMMENDATION. |
| WC 2 | WATER CLOSET (ACCESSIBLE) | INT | 4" | 2" | --- | 1" | --- | A/S NO. 2305.100 "MADERA ADA", AQUAMETER SIPHON JET, FLOOR MOUNTED, ELONGATED BOWL, 15" HIGH TO SEAT, COMPLETE WITH SLOAN ROYAL NO. 111-1.5-YB-YC-YK FLUSH VALVE WITH SUPPORT AND NO. 8-73-A HANDLE, OLSONITE NO. 850C-SS SEAT AND A/S BOLT CAPS. | ET 1 | EXPANSION TANK | --- | --- | --- | --- | --- | --- | MILKINS NO. WKT-8, SUSPENDED, 2 GALLON, DIAPHRAM TYPE, PRE-PRESSURIZED WITH WELDED EXTERIOR, BUTYL DIAPHRAM AND EPOXY COATED EXTERIOR. |
| WC 3 | WATER CLOSET | INT | 4" | 2" | --- | 1" | --- | A/S NO. 2315.012 "BABY DEVOR", FLUSH TANK, FLOOR MOUNTED, BOWL, 10" HIGH, WATER SAVER, COMPLETE WITH OLSONITE NO. 126-CC SEAT, CHICAGO NO. 1008 STOP WITH RIGID SUPPLY AND A/S BOLT CAPS. | BFP 1 | BACKFLOW PREVENTER | --- | --- | --- | --- | 3/4" | --- | MILKINS NO. 975, 3/4" SIZE, COMPLETE WITH TEST COCKS, UNIONS, GATE VALVES AND STRAINER. |
| UR 1 | URNIAL (ACCESSIBLE) | INT. | 2" | 1-1/2" | --- | 3/4" | --- | A/S NO. 6541.132 "ALLBROOK", WALL HUNG, SIPHON JET, COMPLETE WITH SLOAN ROYAL NO. 188-1-YB-YC AND PROVIDE NO. 8-73-A HANDLE FLUSH VALVE AND SUPPORT, ZURN NO. 2R-1222 WALL HANGER, STAINLESS STEEL STRAINER AND MOUNTED AT HANDICAP HEIGHT. | GPR 1 | GAS PRESSURE REGULATOR | --- | --- | --- | --- | --- | --- | FISHER CONTROL MODEL FSS102-BDC, 3/4" SIZE CONNECTION, 1/4" ORIFICE, 3/4" VENT WITH 8" TO 15" WATER COLUMN @ 5.0 PSI INLET PRESSURE AND A FLOW UP TO 450 CFH. CAST IRON CONSTRUCTION. |
| UR 2 | URNIAL (ACCESSIBLE) | --- | --- | --- | --- | 3/4" | --- | CONTRACTOR SHALL REMOVE EXISTING FLUSH VALVE AND REPLACE WITH NEW SLOAN ROYAL NO. 8186-1-MC BATTERY POWERED SENSOR OPERATED FLUSH VALVE. | GPR 2 | GAS PRESSURE REGULATOR | --- | --- | --- | --- | --- | --- | FISHER CONTROL MODEL FSS102-BHB, 3/4" SIZE CONNECTION, 1/2" ORIFICE, 3/4" VENT WITH 8.5" TO 8.5" WATER COLUMN @ 5.0 PSI INLET PRESSURE AND A FLOW UP TO 900 CFH. CAST IRON CONSTRUCTION. |
| L 1 | LAVATORY | 1-1/4" | 2" | 1-1/2" | --- | 1/2" | --- | A/S NO. 0355.012 "LUCERNE", 20" X 18", WALL HUNG, COMPLETE WITH CHICAGO NO. 85751-2-688 FAUCET, CHICAGO NO. 327A GRID DRAIN, CHICAGO NO. 1006 LOOSE KEY STOPS WITH RIGID SUPPLIES AND ZURN NO. Z-1251 CARRIER WITH STEEL PLATE, AND L.A. PATTERN P-TRAP. | | | | | | | | | |
| L 2 | LAVATORY | 1-1/4" | 2" | 1-1/2" | 1/2" | 1/2" | --- | A/S NO. 0356.421 "LUCERNE", 20" X 18", WALL HUNG, COMPLETE WITH CHICAGO NO. 2200-4 SINGLE LEVER FAUCET, CHICAGO NO. 327A GRID DRAIN, CHICAGO NO. 1006 LOOSE KEY STOPS WITH RIGID SUPPLIES AND ZURN NO. Z-1251 CARRIER WITH STEEL PLATE, AND L.A. PATTERN P-TRAP AND WRAP PIPES. | | | | | | | | | |
| S 1 | SINK | 1-1/2" | 2" | 1-1/2" | --- | 1/2" | --- | ELKAY LRAD-2517-40-2 SINGLE COMPARTMENT, 18 GAUGE TYPE 302 STAINLESS STEEL, SELF-RIMMING, 25" X 17" X 6" DEEP, COMPLETE WITH LK-18 GRID DRAIN, CHICAGO 350 PANTY FAUCET, CHICAGO 369 WITH 369 LEVER HANDLE AND CHICAGO QUAM HAND CLOSING CARTRIDGE, CHICAGO NO 1006 LOOSE KEY STOP WITH RIGID SUPPLIES AND L.A. PATTERN P-TRAP. | | | | | | | | | |
| S 2 | SINK | 1-1/2" | 2" | 1-1/2" | 1/2" | 1/2" | --- | ELKAY LRAD-2219-65-3, 3 HOLE PUNCHED, SINGLE COMPARTMENT, 18 GAUGE TYPE 302 STAINLESS STEEL, SELF-RIMMING, 19" X 21" X 6-1/2" DEEP, COMPLETE WITH CHICAGO NO. 786-E3 FAUCET, COMPLETE WITH NO. ELKAY LRAD-35 DRAIN CHICAGO NO. 1006 LOOSE KEY STOPS WITH RIGID SUPPLIES AND L.A. PATTERN P-TRAP. | | | | | | | | | |
| S 3 | SINK | 1-1/2" | 2" | 1-1/2" | 1/2" | 1/2" | --- | ELKAY LRAD-3319-65-3, DOUBLE COMPARTMENT, 18 GAUGE TYPE 302 STAINLESS STEEL, SELF-RIMMING, 19" X 33" X 6-1/2" DEEP, COMPLETE WITH CHICAGO NO. 786-E3 FAUCET, ELKAY NO. LRAD-35 DRAIN AND STRAINER AND CHICAGO NO. 1006 LOOSE KEY STOPS WITH RIGID SUPPLIES AND P-TRAP, AND IN-SINK-ERATOR MODEL NO. 333 DISPOSER, 3/4 HP, 120 VOLTS, 1 PHASE, 60 CYCLE, 8.1 AMPS. | | | | | | | | | |
| S 4 | SINK | 1-1/2" | 2" | 1-1/2" | 1/2" | 1/2" | --- | CONTRACTOR SHALL ROUGH-IN AND CONNECT SINK AS REQUIRED. SINK AND TRIM PROVIDED BY OTHERS. | | | | | | | | | |
| DF 1 | DRINKING FOUNTAIN (ACCESSIBLE) | 1-1/2" | 2" | 1-1/2" | --- | 3/4" | --- | HAWS NO. 1441 EXTERIOR WALL MOUNTED TWO-BUBBLER HANDICAP ALUMINUM CONSTRUCTION, VANDAL-PROOF BUBBLERS, PUSH BUTTON VALVES AND ACCESS PANEL. | DF 2 | DRINKING FOUNTAIN | 1 1/2" | 2" | 1 1/2" | --- | 3/4" | --- | HAWS NO. 1119 - HIGH/LOW WALL MOUNTED TWO-BUBBLER, VANDAL-PROOF, PUSH BUTTON VALVES & ACCESS PANEL. UNIT PROVIDED BY PRODUCT SUPPLIER BY G.C. |

WATER HEATER SCHEDULE

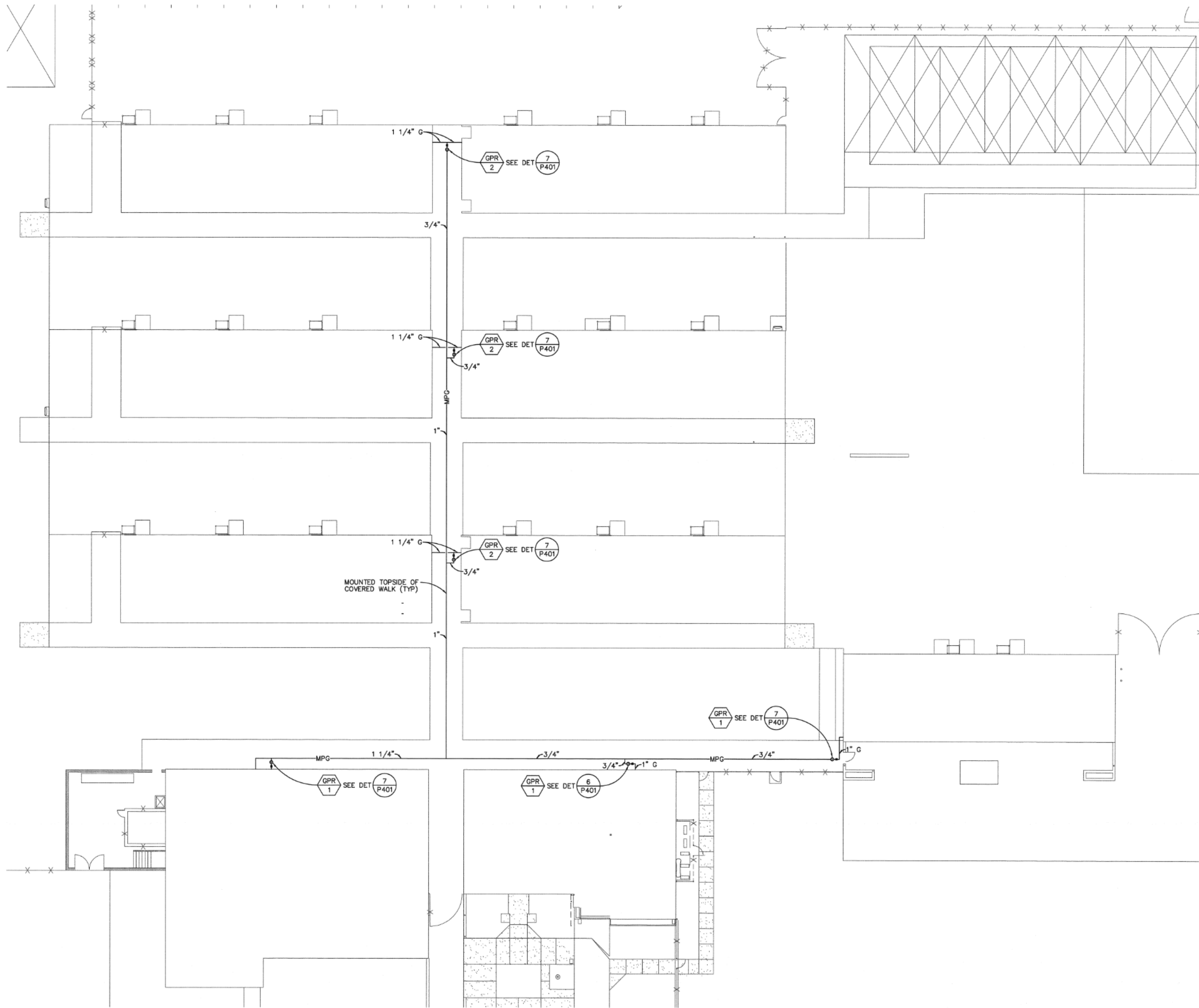
| ITEM | MANUFACTURER | MODEL NO. | SERVICE | LOCATION | STORAGE | ELECTRICAL DEMANDS | | | | RECOVERY CAPACITY @ 60°F | INLET TEMP °F | OUTLET TEMP °F | OPER. WT. LBS. | REMARKS |
|------|--------------|-----------|--------------------|-----------|--------------|--------------------|-------|--------|-------|--------------------------|---------------|----------------|----------------|---|
| | | | | | | VOLT | PHASE | WATTS | CYCLE | | | | | |
| WH 1 | CHRONOMITE | S-901 | DOMESTIC HOT WATER | SEE PLANS | INSTANT-FLOW | 208 | 1 | 8.0 KW | 60 | INSTANT | 60 | 120 | 10 LBS. | MUST HAVE ASHRAE STICKER OR OTHERWISE COMPLY WITH TITLE 24 REQUIREMENT FOR SERVICE WATER HEATERS. |
| WH 2 | A.O. SMITH | DSE-30 | DOMESTIC HOT WATER | SEE PLANS | 30 GALLONS | 208 | 1 | 3.0 KW | 60 | 20 GPH | 60 | 120 | 399 LBS. | |
| WH 3 | A.O. SMITH | DSE-20 | DOMESTIC HOT WATER | SEE PLANS | 20 GALLONS | 208 | 1 | 3.0 KW | 60 | 20 GPH | 60 | 120 | 296 LBS. | |

PUMP SCHEDULE

| ITEM | MANUFACTURER | MODEL NO. | SERVICE | LOCATION | STORAGE | CAPACITY | | MOTOR | | | | REMARKS | | |
|------|----------------|------------|------------------|-----------|-------------|----------|------|-------------|------|-------|-------|---------|---------------------------------|--|
| | | | | | | GPM | HEAD | HORSE POWER | VOLT | PHASE | CYCLE | | | |
| GP 1 | BELL & GOSSETT | SERIES 100 | HOT WATER RETURN | SEE PLANS | CENTRIFUGAL | 3 | 8 | 1/12 | 115 | 1 | 60 | 1750 | PROVIDED WITH BUILT-IN OVERLOAD | |

GENERAL NOTES

- BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, DEPTH, SIZE, AND CHARACTERISTICS OF ALL UTILITIES AND PIPING, AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- ALL HANDICAP WATER CLOSETS SHALL HAVE FLUSH VALVE WITH HANDLE ON OPEN SIDE.
- ALL VALVES, UNIONS, ETC., TO BE SAME SIZE AS LINE SIZE UNLESS OTHERWISE INDICATED ON DRAWINGS.
- ALL PLUMBING FIXTURE VENTS TO TERMINATE A MIN. OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM OUTSIDE AIR INTAKES ON ROOF.
- EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS.
- ALL EXTERIOR GAS COCKS, WATER SHUT OFF VALVES AND/OR SEWER CLEANOUTS INSTALLED IN YARD BOXES SHALL HAVE THE COVERS CONSPICUOUSLY MARKED "GAS", "WATER", AND "SEWER" RESPECTIVELY.
- CONNECTION BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE BUILDINGS SHALL BE MADE WITH TWO (2) O-ELECTRIC UNIONS SEPARATED BY A TWELVE INCH (12") SECTION OF RED BRASS PIPE.
- ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEAN-OUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC., AND THE ARCHITECT PRIOR TO ANY INSTALLATION.
- SEE ARCHITECTURAL DRAWINGS FOR HANDICAP FIXTURE LOCATIONS AND MOUNTING HEIGHTS. (INSULATE ALL EXPOSED HOT WATER AND DRAIN PIPING BELOW HANDICAP LAVATORIES AND SINKS PER SPECIFICATIONS.)
- ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATIONS AND NOT LESS THAN 6" ABOVE THE FLOOR TO PROVIDE CLEARANCE FOR CLEANING. AT WALL OR COLUMN LOCATIONS, PIPING ROUGH-IN SHALL BE STUBBED IN WALLS WHEN EVER POSSIBLE.
- INSULATION (SEE SPECIFICATION FOR TYPE REQUIRED) AND COVERING ON PIPE AND TUBING SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH 1997 U.S.C. STANDARD NO. 8-1.
- THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, 1998 CBC SECTION 1632A AND TABLE 16A-O. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON PLANS.
- ALL SOIL OR WASTE PIPING THAT IS IMBEDDED IN CONCRETE SHALL BE DOUBLE HALF LAP WRAPPED WITH 1/8" THICK "ARMOFLEX" INSULATION.
- ANY ALTERATIONS TO A STRUCTURAL MEMBER, SUCH AS, CUTTING, BORING, BRAZING, DRILLING, WELDING ETC., SHALL HAVE PRIOR WRITTEN APPROVAL OF ARCHITECT, STRUCTURAL ENGINEER AND DSA.
- PROVIDE ALL WORK IN ACCORDANCE WITH ALL ROOFING WARRANTIES, EXISTING OR NEW, AND SO AS NOT TO VOID SUCH WARRANTIES.



NOTES:
1. ALL GAS PIPING SIZES OUTSIDE THE BUILDING ARE BASED ON UNIFORM PLUMBING CODE 1997 TABLE 12-3 (MEDIUM PRESSURE) AT TOTAL DEVELOPED LENGTH 500 FEET.

SITE PLAN

NORTH
SCALE
1/16"=1'-0"



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1277 LONG RIVE DRIVE
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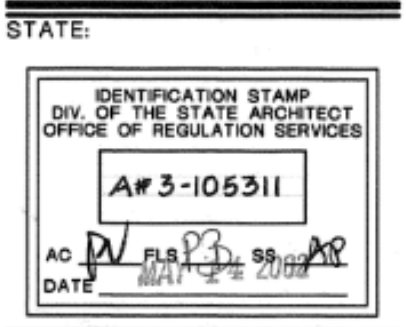


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STATE:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 3-105311
AD 1/1/23
DATE 1/1/23

SHEET DESCRIPTION
PLUMBING SITE PLAN

SHEET NO.:

OF:

P001

HEALTH DEPARTMENT SUBMISSION

Date
5/18/23

Revision /
1

WARD ELEMENTARY SCHOOL
KITCHEN UPGRADES
DOWNEY USD
8851 ADOREE STREET, DOWNEY, CA 90242

Project:



Huckabee
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EXISTING PLUMBING - FOR
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| PACKAGE | VOLUME |
|------------------------|-------------------|
| Job No. 01145-48-01 | Sheet No. P001 |
| Drawn By: Author | |
| Date: 05-09-2023 | |

KEY PLAN

HEALTH DEPARTMENT SUBMISSION

Date
5/18/23
Revision /
1

WARD ELEMENTARY SCHOOL
KITCHEN UPGRADES
DOWNEY USD
8851 ADOREE STREET, DOWNEY, CA 90242

Project:



EXISTING PLUMBING - FOR REFERENCE ONLY

| PACKAGE | VOLUME |
|------------------------|-------------------|
| Job No. 01145-48-01 | Sheet No. P301 |
| Drawn By: Author | |
| Date: 05-09-2023 | |



14471 CHAMBERS RD.
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TEL: 714-734-1777
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FAX: 714-734-1777



PROJECT NAME

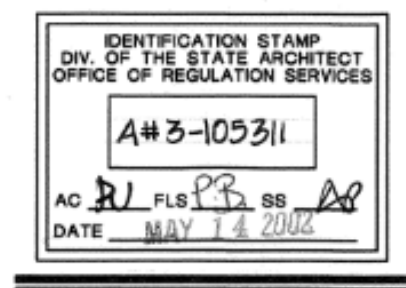
Ward Elementary School
District Wide Modernization
8851 Adoree Street
Downey, CA 90242

CLIENT:
DOWNEY UNIFIED
SCHOOL DISTRICT
11627 BROOKSHIRE AVENUE
DOWNEY, CALIFORNIA 90241

| No. | Rev. | Date | Description |
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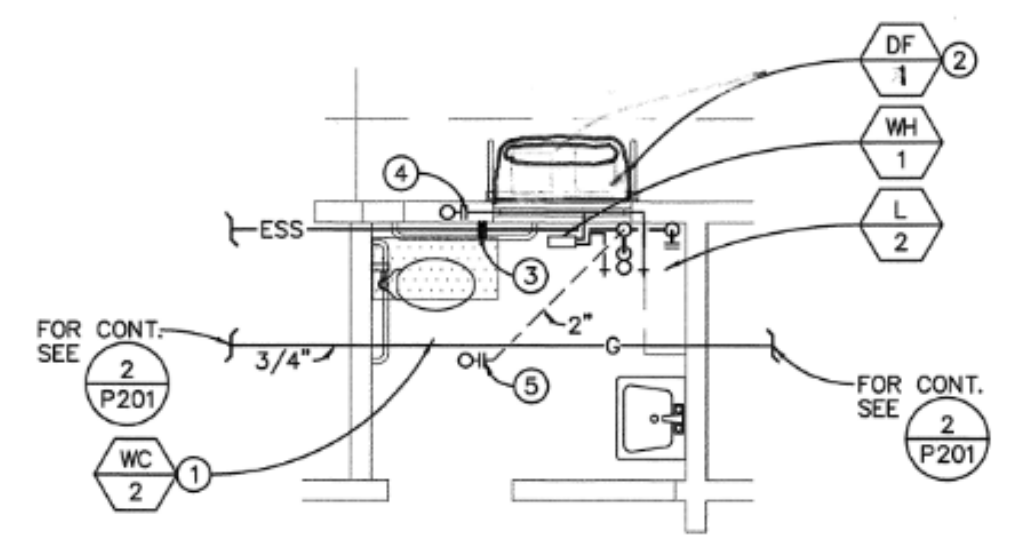
STATE:



SHEET DESCRIPTION:
ENLARGED PLUMBING
FLOOR PLANS

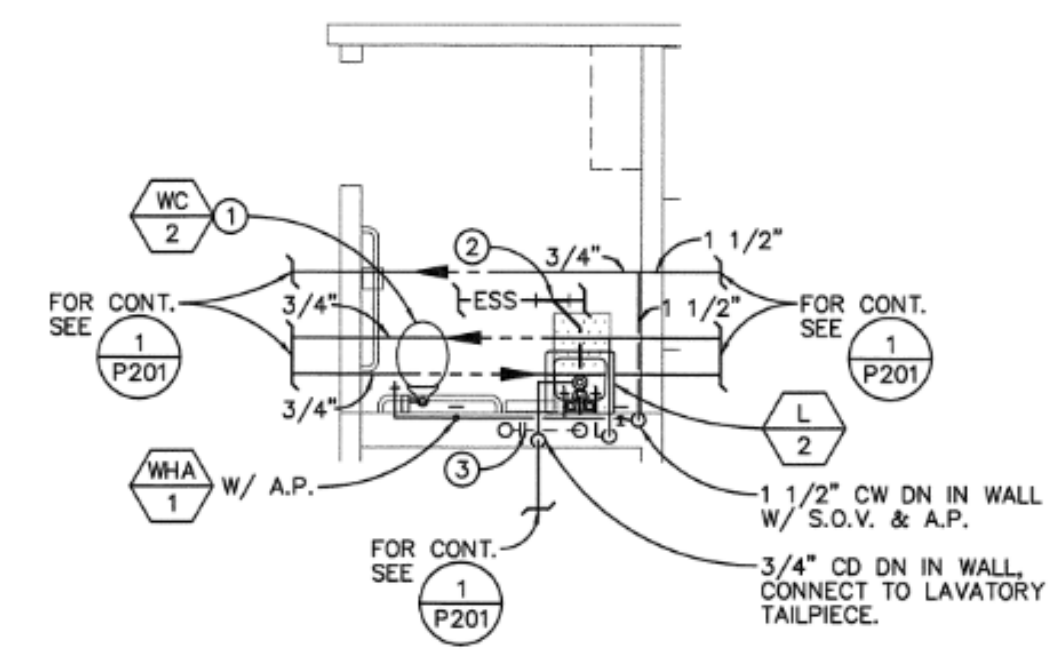
SHEET NO. P301

OF:



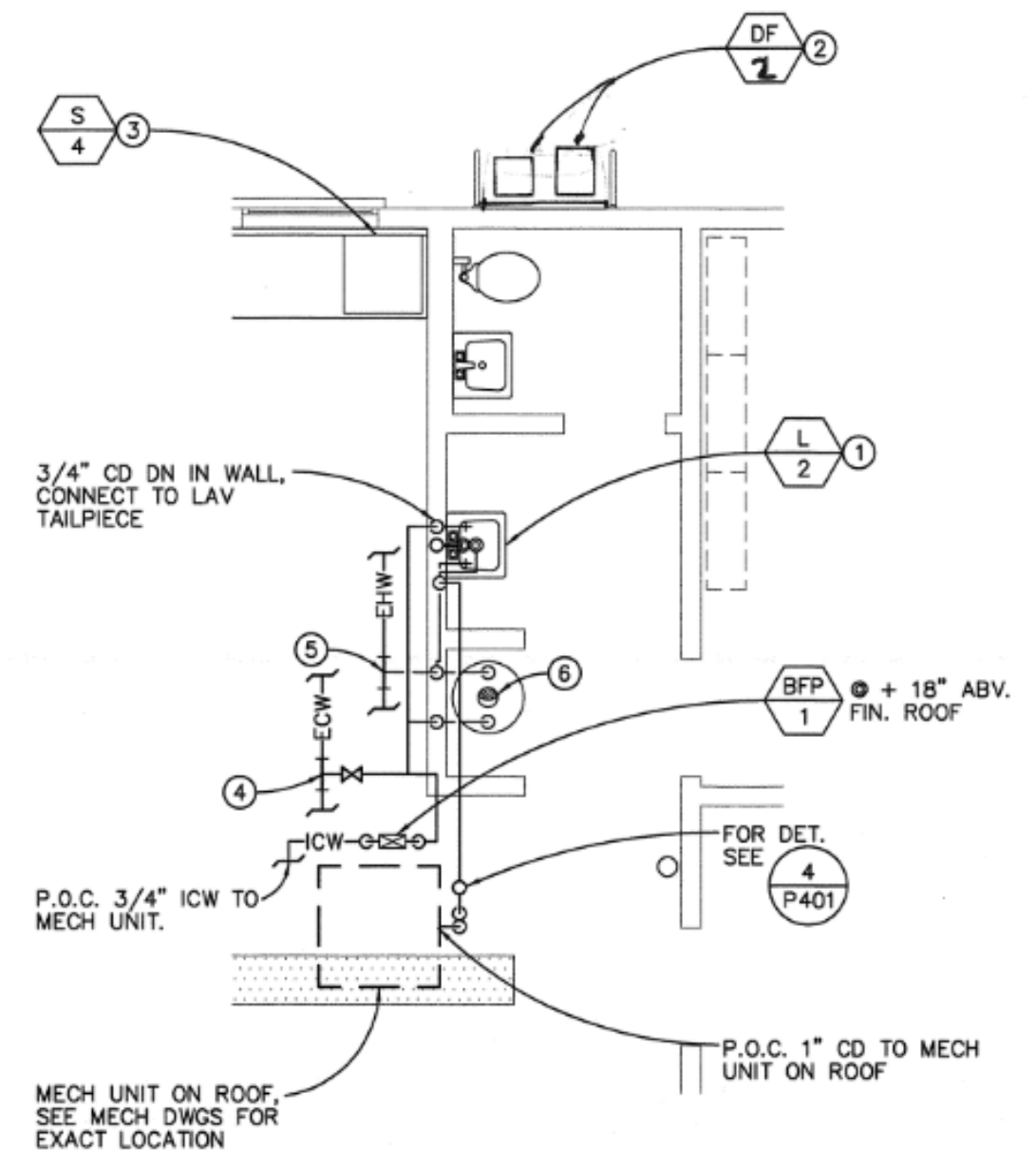
- CONSTRUCTION NOTES:
- CONTRACTOR SHALL ROUGH-IN AND CONNECT TO EXISTING SERVICES FOR NEW WATER CLOSET.
 - CONTRACTOR SHALL ROUGH-IN AND CONNECT TO EXISTING SERVICES FOR NEW DRINKING FOUNTAIN.
 - P.O.C. NEW 2" SEWER LINE TO EXISTING SEWER LINE BELOW GRADE. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
 - P.O.C. NEW 1 1/2" COLD WATER LINE TO EXISTING COLD WATER LINE IN WALL. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
 - P.O.C. NEW 2" VENT LINE TO EXISTING VENT THRU ROOF ABOVE CEILING. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
 - THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND POINT OF CONNECTION PRIOR TO BIDDING PROJECT.

TOILET ROOM SCALE 1/4"=1'-0" 4



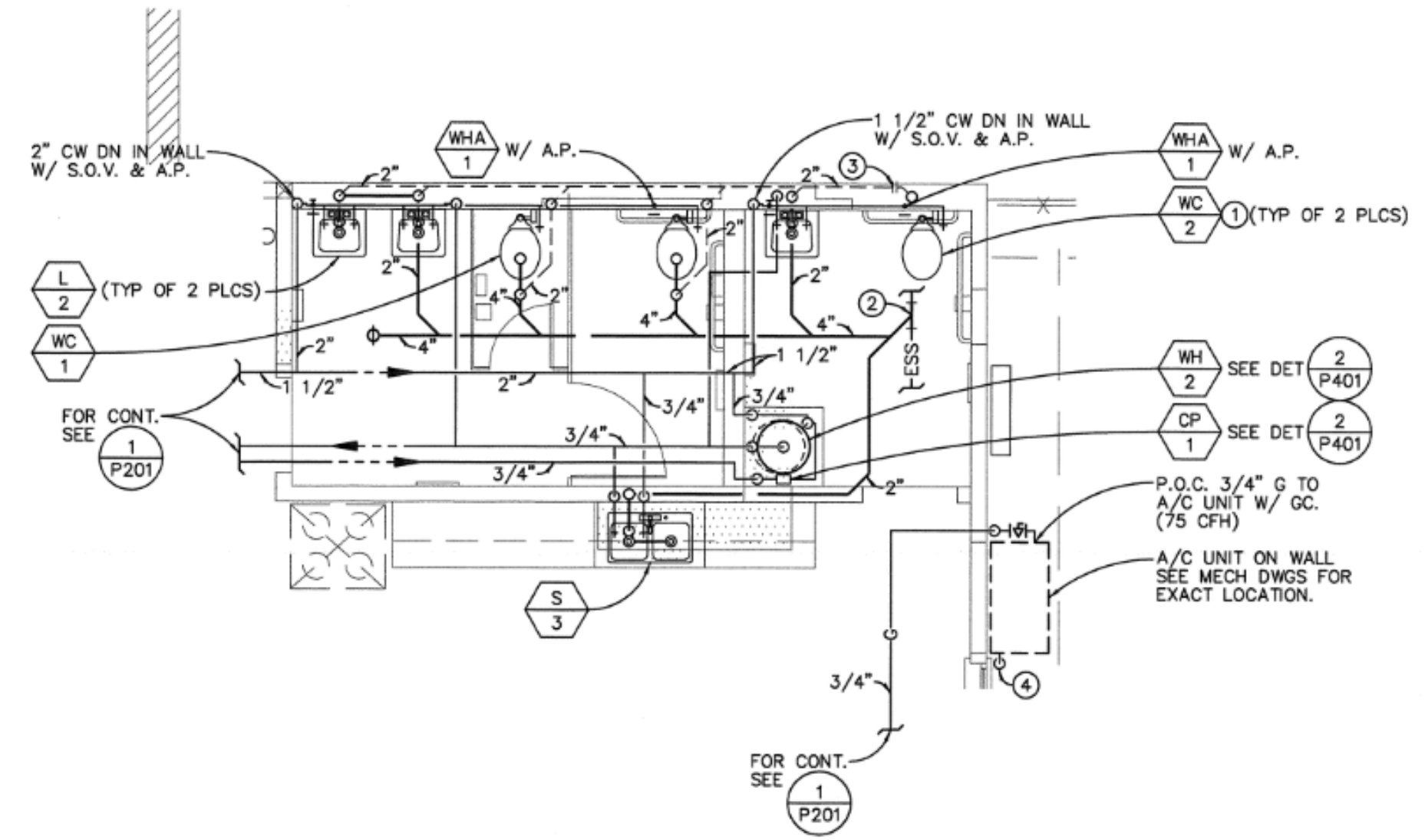
- CONSTRUCTION NOTES:
- CONTRACTOR SHALL ROUGH-IN AND CONNECT TO EXISTING SERVICES FOR NEW WATER CLOSET.
 - P.O.C. NEW 2" SEWER LINE TO EXISTING SEWER LINE BELOW GRADE. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
 - P.O.C. NEW 2" VENT LINE TO EXISTING VENT THRU ROOF ABOVE CEILING. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
 - THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND POINT OF CONNECTION PRIOR TO BIDDING PROJECT.

TOILET ROOM SCALE 1/4"=1'-0" 2



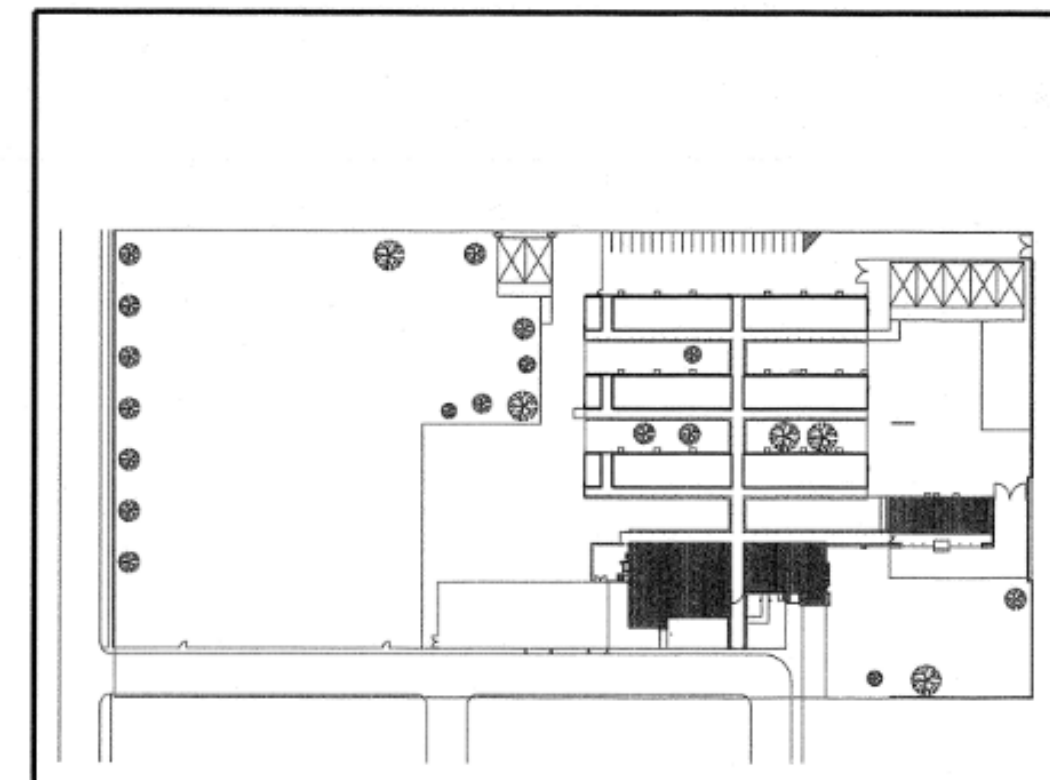
- CONTRACTOR SHALL ROUGH-IN AND CONNECT TO EXISTING SERVICES FOR NEW LAVATORY.
- CONTRACTOR SHALL ROUGH-IN AND CONNECT TO EXISTING SERVICES FOR NEW WATER CLOSET.
- CONTRACTOR SHALL ROUGH-IN AND CONNECT TO EXISTING SERVICES FOR NEW SINK.
- P.O.C. NEW 3/4" COLD WATER LINE TO EXISTING COLD WATER LINE ABOVE CEILING. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
- P.O.C. NEW 1" HOT WATER LINE TO EXISTING HOT WATER LINE ABOVE CEILING. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
- RECONNECT EXISTING FLUE TO RELOCATED WATER HEATER. MODIFY FLUE AS NECESSARY.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND POINT OF CONNECTION PRIOR TO BIDDING PROJECT.

TOILET ROOM SCALE 1/4"=1'-0" 3



- CONSTRUCTION NOTES:
- CONTRACTOR SHALL ROUGH-IN AND CONNECT TO EXISTING SERVICES FOR NEW WATER CLOSET.
 - P.O.C. NEW 4" SEWER LINE TO EXISTING SEWER LINE BELOW GRADE. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
 - P.O.C. NEW 2" VENT LINE TO EXISTING VENT THRU ROOF ABOVE CEILING. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
 - P.O.C. 3/4" CD TO A/C UNIT. 3/4" CD DOWN AT WALL AND TERMINATE 6" ABOVE FINISH GRADE WITH 45° ELI. TURNED OUT.
 - THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND POINT OF CONNECTION PRIOR TO BIDDING PROJECT.

TOILET ROOM SCALE 1/4"=1'-0" 1



KEY PLAN



ELECTRICAL NOTES

NOTE: THIS DOCUMENT FORMS A PART OF THE SPECIFICATIONS AND SHALL BE CONSIDERED THE SAME AS IF ATTACHED THERETO.

- IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT.FURNISH LABOR AND TOOLS NECESSARY AND INSTALL APPARATUS, MATERIALS, AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NECESSARILY SHOWN, SUCH AS COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS, AND HARDWARE.
- BEFORE SUBMITTING THE BID PROPOSAL, VISIT THE JOB SITE AND FULLY ACQUAINT WITH THE EXISTING JOB CONDITIONS, VERIFY EXISTING AND NEW REQUIREMENT, INCLUDING NECESSARY PULL BOXES, SIZE AND NUMBER OF CONDUITS AND CONDUCTORS, PANELS, DISCONNECT SWITCHES CABLES, TIME CLOCKS ETC., WHETHER SHOWN ON DRAWINGS OR NOT, BUT REQUIRED FOR PROVIDING A COMPLETE AND OPERABLE FIRE ALARM SYSTEM, WITHOUT ADDITIONAL COST TO THE DISTRICT.
- EXAMINE ALL CONTRACT DOCUMENTS AND VERIFY ALL DIMENSIONS AND CONDITIONS, EXISTING AND NEW CEILINGS AND BRING ANY DISCREPANCIES TO THE ATTENTION OF OR THE ARCHITECT PRIOR TO COMMENCING ANY WORK. NEW DEVICES, CONTROLS, SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING.
- THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE LOCATION OF FIRE ALARM DEVICES AND EQUIPMENT AND THE CIRCUIT ARRANGEMENT OF THE REQUIRED WIRING, AND THOUGH NOT NECESSARILY INDICATING THE ACTUAL ROUTES OF CONDUITS, THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS PROPER COORDINATION WITH THE EXISTING FIELD CONDITIONS AND SPACE WILL PERMIT.SIMPLY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF THE DISTRICT FOR VISUAL AND STRUCTURAL REASONS.THE DRAWINGS DO NOT SHOW NECESSARY OFFSETS, BENDS, PULL BOXES AND OBSTRUCTIONS.THE DRAWINGS ARE NOT INTENDED TO BE SCALED AND THE CONTRACTOR SHALL REFER TO THE GENERAL CONSTRUCTION DRAWINGS FOR DIMENSIONS. FIELD COORDINATE WITH EXISTING CONDITIONS.
- PROCURE PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR INSPECTION WITH IOR AND TESTS IN CONNECTION THEREWITH, COMPLY WITH CODES.BEFORE THE WORK IS ACCEPTED, PRESENT TO THE DISTRICT SIGNED CERTIFICATE OF FINAL INSPECTION.
- ERECT AND MAINTAIN SUITABLE BARRIERS, PROTECTIVE DEVICES, LIGHTS AND WARNING SIGNS WHERE REQUIRED FOR THE PROTECTION OF THE PUBLIC AND EMPLOYEES.
- UNLESS OTHERWISE SHOWN OR SPECIFIED, CONDUIT SHALL BE CONCEALED IN WALLS OR ABOVE FINISHED CEILING.
A. CONCEALED CONDUIT SHALL BE RUN IN AS DIRECT A LINE AS POSSIBLE.BENDS SHALL BE OF LONG SWEET TYPE.
B. EXPOSED CONDUIT SHALL BE RUN PARALLEL TO, OR AT RIGHT ANGLES WITH THE LINES OF THE BUILDING.BEND SHALL BE FREE FROM BENTS OR FLATTENING.CONDUIT SHALL BE SUPPORTED AND SECURELY FASTENED.
C. CONDUIT SHALL BE INSTALLED AS A COMPLETE SYSTEM BEFORE WIRE OR CONDUCTORS ARE PULLED IN.
D. CONDUIT SHALL BE INSTALLED ENTIRELY FREE FROM OTHER PIPING, VALVES OR OTHER MECHANICAL EQUIPMENT, AND SHALL NOT BE INSTALLED WITHIN 6 INCHES OF HOT WATER, OR HEATING FLUES.
E. POCKETS OR TRAPS IN ALL CONDUIT RUNS WHERE MOISTURE MAY COLLECT SHALL BE AVOIDED.WHERE DIPS ARE UNAVOIDABLE, A PULL BOX SHALL BE LOCATED AT EACH LOW POINT IN ORDER TO PROVIDE A MEANS OF DRAINAGE.
F. THE CONDUIT SYSTEM AND CONDUCTING WIRE ENCLOSURES SHALL BE SECURELY BONDED TOGETHER SO THAT FOR EVERY CONDUCTING COMPONENT IS PROVIDED WITH A LOW RESISTANCE PATH TO GROUND.
G. DOUBLE LOCKOUTS SHALL BE USED FOR SECURING CONDUIT AT A BOX OR CABINET UNLESS A THREE-PRONG HUB IS PROVIDED AS PART OF THE BOX OR CABINET.
H. RUNNING THREADS SHALL NOT BE USED ON CONDUIT FOR CONNECTION AT COUPLINGS.WHERE 2 LENGTHS OF CONDUIT MUST BE COUPLED TOGETHER, AND IT IS IMPOSSIBLE TO SCREW BOTH LENGTHS INTO AN ORDINARY COUPLING, THEN THE "ENDCROW" TYPE OF COUPLING MUST BE USED IN ORDER TO PROVIDE A RIGID JOINT THAT WILL BE BOTH MECHANICALLY AND ELECTRICALLY EFFECTIVE.
I. COUPLING AND CONNECTORS USED ON ELECTRIC METALLIC TUBING SHALL BE COMPRESSION TYPE.
J. CONDUIT SHALL BE TERMINATED WITH SUITABLE BUSINGS OR EQUIVALENT DEVICES WHICH SHALL PROTECT THE ENCLOSED WIRES FROM ABRASION AT THE ENDS.
K. ALL BUILDING INTERIOR CONDUIT SIZES SHALL BE MINIMUM OF 3/4" AND 1" MINIMUM FOR ALL UNDERGROUND CONDUITS IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE "CEC".
L. PROVIDE SLEEVES, NIPPLES, AND COUPLINGS REQUIRED FOR THE INSTALLATION OF CONDUIT. SLEEVES SHALL PROJECT 2" ABOVE FLOOR.
M. FLEXIBLE CONDUIT SHALL BE PROVIDED TO CONNECT MOTORS ON SLIDING BASES, TO CONTROLS, AND TO VIBRATING EQUIPMENT.
N. PROTECT CONDUIT FROM DAMAGE AND THE ENTRANCE OF WATER AND FOREIGN MATTER DURING THE CONSTRUCTION PERIOD.WATER-TIGHT STOPPERS OR CAPS SHALL BE INSTALLED IMMEDIATELY AFTER THE CONDUIT IS INSTALLED, REMOVED ONLY WHEN WIRE IS TO BE INSTALLED.
O. THOROUGHLY CLEAN THE INSIDE OF CONDUITS TO ASCERTAIN FOREIGN MATERIALS ARE REMOVED BEFORE PULLING WIRE OR CABLE.
- PROVIDE AND INSTALL HANGERS, SUPPORTS AND FASTENERS AS REQUIRED.
A. INSTALLATION OF HANGERS AND SUPPORTS SHALL BE MADE TO THE WOOD FRAMED STRUCTURE.
B. FASTENERS FOR SUPPORTS AND HANGERS SHALL BE MADE OF STEEL OR GALV. CLAMP, JACKETS, OR OTHER APPROVED DEVICES.
C. INSTALLATION SHALL BE SUCH SO AS TO SUPPORT CONDUIT WITHOUT SAGGING AND SHALL BE CLEAR OF THE WORK OF OTHER TRADES, PROVIDED FOR EXPANSION AND CONTRACTION SHALL BE MADE.
D. SPACING OF SUPPORTS FOR EXPOSED HORIZONTAL CONDUIT RUNS SHALL BE AS FOLLOWS.

| SIZE OF CONDUIT (INCHES) | NUMBER OF CONDUITS IN RUN | LOCATION | MAXIMUM SUPPORT SPACING (FEET) |
|--------------------------|---------------------------|--|--------------------------------|
| 3/4" | 1 OR 2 | ON A FLAT CEILING OR WALL | 5 |
| 3/4" | 1 OR 2 | WHERE IT IS DIFFICULT TO PROVIDE SUPPORTS EXCEPT AT INTERVALS FIXED BY BUILDING CONSTRUCTION | 7 |
| 3/4" | 3 OR MORE | ANY LOCATION | 7 |
| 1 & 2 | 1 OR 2 | ON A FLAT CEILING OR WALL | 6 |
| 1 & 2 | 1 OR 2 | WHERE IT IS DIFFICULT TO PROVIDE SUPPORTS EXCEPT AT INTERVALS FIXED BY BUILDING CONSTRUCTION | 10 |
| 1 & 2 | 3 OR MORE | ANY LOCATION | 10 |

E. SPACING OF SUPPORTS FOR EXPOSED VERTICAL CONDUIT RUNS SHALL BE AS FOLLOWS.

| SIZE OF CONDUIT (INCHES) | MAXIMUM SUPPORT SPACING (FEET) |
|--------------------------|--------------------------------|
| 3/4" | 7 |
| 1 AND 1 1/4" | 8 |
| 1 1/2" AND 2" | 10 |

F. ELECTRICAL ENCLOSURES SHALL BE WEATHERPROOF WHEN EXPOSED TO OUTDOORS OR WET AREAS.

- EXACT LOCATION OF EQUIPMENT AND LIGHTING FIXTURES SHALL BE VERIFIED IN FIELD. COORDINATE INSTALLATION OF ELECTRICAL SYSTEM WITH EXISTING BUILDING STRUCTURES. PRIOR TO COMPLETION OF AFFECTED WORK, CONTRACTOR SHALL INSTRUCT THE DISTRICT ON THE USE AND MAINTENANCE OF THE INSTALLED SYSTEM.
- SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 2 1/8" DEEP. JUNCTION BOXES SHALL BE LABELED WITH RESPECTIVE CIRCUIT NUMBERS.
- OUTLET BOXES SHALL BE FLUSHED WITH THE FINISHED SURFACE OF WALLS AND CEILINGS OF COMBUSTIBLE MATERIALS. ALL CONDUITS AND OUTLET BOXES SHALL BE SURFACE MOUNTED ON CMU, CONCRETE WALL.
- OPENINGS IN BOXES, CONDUIT BODIES AND FITTINGS SHALL BE ADEQUATELY CLOSED.
- SURFACE MOUNTED BOXES AND CABINETS MOUNTED IN WET AND DAMP LOCATIONS SHALL BE WEATHERPROOF AND SHALL HAVE AT LEAST 1/4 INCH AIR SPACE BETWEEN THE BOX AND MOUNTING SURFACE.
- ENTRANCE TO ROOMS AND OTHER GUARDED LOCATIONS THAT CONTAIN LIFE PARTS SHALL BE MARKED WITH A CONSPICUOUS WARNING SIGN FORBIDDING UNQUALIFIED PERSONS TO ENTER.
- CUT FLOORS, CEILINGS AND WALLS AS REQUIRED FOR INSTALLATION OF ELECTRICAL WORK. APPROVED PENETRATION THROUGH CONCRETE WALLS OR CEILINGS SHALL BE PROVIDED BY MEANS OF SLEEVES OR CORE DRILLING. CONTRACTOR SHALL COORDINATE WITH DISTRICT. CONDUITS SHALL NOT PENETRATE STRUCTURAL SLAB AND WALL. ALL WORK SHALL BE PATCHED AND REPAIRED AS DIRECTED BY DISTRICT.
- AFTER AWARD OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, SIX (6) PRINTS OF ALL REQUIRED SHOP DRAWINGS, BROCHURES AND OTHER SATISFACTORY DESCRIPTIONS INDICATING MANUFACTURER, CATALOG NUMBER, DIMENSIONS AND PERFORMANCE OF THE EQUIPMENT.

- USE "THINWALL" COPPER WIRES OR EQUAL FOR ALL BRANCH CIRCUIT WIRING WITH A SEPARATE GREEN GROUNDING CONDUCTOR. SIZE PER C.E.C 250-122.
- EQUIPMENT SHALL BE LISTED BY A RECOGNIZED TESTING LABORATORY.
- THE NON-CURRENT CARRYING METALLIC PARTS OF ALL ELECTRICAL FIRE ALARM EQUIPMENT AND ENCLOSURES, INCLUDING CONDUITS, SUPPORTS, CABINETS, AND ASSOCIATED EQUIPMENT, WHICH ARE INSTALLED OR CONNECTED UNDER THIS CONTRACT, SHALL BE PROPERLY GROUNDING BY CONNECTION TO THE GROUNDING SYSTEM, REGARDLESS OF WHETHER OR NOT THESE CONNECTIONS ARE SHOWN ON THE DRAWINGS.
- A. THE GROUNDING INSTALLATION SHALL HAVE PROVISIONS FOR BOTH SYSTEM AND EQUIPMENT GROUNDS AS DEFINED BY THE "C.E.C." THESE GROUNDING SYSTEMS ARE TO BE EFFECTIVELY INSULATED FROM EACH OTHER EXCEPT AT THE POINT OF CONNECTION.
B. GROUNDING SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF "C.E.C." AND THE "N.E.C." STATE REQUIREMENTS OF THE INSPECT SHOW AUTHORITY HAVING JURISDICTION SHALL GOVERN IN ALL MATTERS OF INTERPRETATION.
C. IF WATER SERVICE IS USED FOR GROUNDING POINT, IT SHALL BE ASCERTAINED THAT THE WATER PIPING IS ELECTRICALLY CONTINUOUS AT JOINTS AND IS OF CONDUCTING MATERIAL. WATER PIPING WITH SWEATED JOINTS IN ELECTRICAL PIPING SHALL HAVE SUCH JOINTS BONDED.
D. WHERE GROUND CABLES ENTER AND LEAVE FERROUS CONDUITS, THEY SHALL BE MECHANICALLY CONNECTED TO THE END OF THE RACEWAY, WHERE GROUND CABLE PASSES THROUGH FERROUS FLOORING OR FRAMING.
E. CONDUIT SHALL BE BENT TO SUCH METAL TO SUCH METAL THROUGH FERROUS FLOORING OR FRAMING.
- THE CONTRACTOR SHALL KEEP ALL PARTS OF THE BUILDING AND SITE FREE FROM ANY ACCUMULATIONS OF RUBBISH OR WASTE MATERIALS CAUSED BY HIS WORKMEN, AND SHALL REMOVE SUCH ACCUMULATIONS FROM THE BUILDING, SITE AND PROPERTY. JOB SITE SHALL BE CLEANED AT THE END OF EACH WORKING DAY.
- THOROUGHLY CLEAN ALL PARTS OF THE EQUIPMENT AND MATERIAL INSTALLED UNDER THIS DIVISION. SURFACES OF EXPOSED CONDUIT SHALL BE CLEANED OF GRUNT, PLASTER, DIRT, RUST, GREASE, AND OTHER FOREIGN MATTER, AND BE LEFT IN CONDITION SUITABLE TO THE CONTRACTOR AND ACCEPTABLE FOR PAINTING.
A. EQUIPMENT FURNISHED WITHOUT SHOP APPLIED FINISH SHALL BE FIELD PAINTED.
B. CONCEALED SURFACES OF METAL PIPES, FRAMES, AND BOXES SHALL BE PAINTED BEFORE MOUNTING.
C. AFTER TESTS HAVE BEEN COMPLETED, CLEAN ALL EQUIPMENT WITH SOAP AND WATER, LEAVING EVERYTHING IN WORKING ORDER AT THE COMPLETION OF THE WORK.
- A) WIRING AND CONNECTIONS SHALL BE TESTED FOR CONTINUITY, GROUNDS, SHORT CIRCUITS, AND OTHER DEFECTS BEFORE ANY EQUIPMENT OR FIXTURES ARE CONNECTED THEREON. CABLES SHALL BE CHECKED FOR CONTINUITY, SHORTS, INSULATION RESISTANCE, AND PROPER PHASING.
B) CONTRACTOR SHALL TERMINATE ALL CABLES 4 WIRES WITH TERMINAL JUMPS (SUPPLIED BY CONTRACTOR)
- INSULATION SHALL BE TESTED BEFORE AND AFTER INSTALLATION, AND BEFORE ENERGIZING.
A. RUBBER INSULATION SHALL BE TESTED FOR ACCEPTANCE BY APPLYING DIRECT CURRENT POTENTIAL, NOT OVER 3 TIMES THE RATIO OF DIRECT CURRENT TO 60% OF EQUIVALENT "RMS" ALTERNATING CURRENT FACTORY TEST VOLTAGE FOR 5 MINUTES.
B. VARNISHED CAMBING, PAPER, AND OTHER INSULATION SHALL BE TESTED IN THE MANNER DIRECTED BY AND UP TO THE LIMITS RECOMMENDED BY THE MANUFACTURER.
C. INSULATION RESISTANCE SHALL BE TESTED BY MEGGER OR NOT LESS THAN 600 VOLTS OUTPUT FOR CIRCUITS 480 VOLTS AND LESS, ANY CIRCUIT SHOWING AN INSULATION RESISTANCE OF LESS THAN 1 MO. SHALL BE INVESTIGATED AND THE WEEK POINT CORRECTED, CORRECT OR REPLACE ANY CIRCUIT DEFECTIVE OR GROUNDED AND MAKE WIRE-TO-WIRE TEST.
- THE ENTIRE SYSTEM SHALL BE PLACED IN PROPER OPERATING CONDITION.
A. ALL CHANGES SHALL BE MADE THAT ARE NECESSARY FOR ADJUSTING, SETTING AND BALANCING.
B. GROUND TESTS SHALL BE MADE WITH THE 3 ELECTRODE "AC" OR "DC" VOLTAGE DROP METHOD TO ESTABLISH INITIAL READINGS FOR RECORDS, AND TO ASCERTAIN THAT THEY MEET DESIGN AND CODE REQUIREMENTS.
C. CONTROL CIRCUITS SHALL BE CHECKED OUT FOR PROPER
- MEP CONTRACTOR 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 2019 CBC SECTIONS 1671A.1, 18 THROUGH 1671A

GENERAL NOTES

1. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
2. A STAMPED SET OF APPROVED DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
3. THE FOLLOWING GENERAL NOTES ARE APPLICABLE AS STATED BELOW, EXCEPT WHERE SPECIFICALLY INDICATED AND NOTED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION REQUIREMENTS AND SCOPE OF WORK.
4. DEVICE LOCATIONS, ELEVATIONS, RISER DIAGRAMS, SCHEMATICS AND DETAILS SHOWN ON PLANS ARE CONCEPTUAL. ILLUSTRATE ONLY THE FUNCTIONAL RELATIONSHIPS BETWEEN COMPONENTS OF THE SYSTEM AND THE DESIGN INTENT OF THE PROJECT. CONTRACTOR SHALL INSTALL DEVICES AS SITE CONDITIONS REQUIRE AND AS APPROVED BY THE OWNER. INFORMATION REQUIREMENTS AND SCOPE OF WORK.
5. PROVIDE ADDITIONAL BOXES AND ADAPTER PLATES AS REQUIRED FOR ALL SURFACE MOUNTED DEVICES. USE SURFACE MOUNTED WIREMOLD IN AREA WHERE NO ACCESSIBLE CEILING SPACE IS AVAILABLE.
6. ALLOW FOR RELOCATION OF DEVICES WITHIN THE SAME ROOM WHERE OBSTRUCTION ARE ENCOUNTERED (PROJECT SCREENED/EDUCATIONAL MATERIALS) THAT WILL PREVENT INSTALLING FIRE ALARM AND MASS NOTIFICATION DEVICES (STROBE, SPEAKERS/STROBE) IN THE LOCATIONS SHOWN ON PLANS, SUBJECT TO REQUIRED DEVICE COVERAGE. DOOR DETAILS ILLUSTRATE FUNCTIONAL RELATIONSHIPS, ACTUAL ARCHITECTURAL CONDITIONS (DIRECTION OF SWING, HAND OF DOOR) MAY VARY AND SHALL BE FIELD VERIFIED.
7. DOOR DETAILS ILLUSTRATE FUNCTIONAL RELATIONSHIPS, ACTUAL ARCHITECTURAL CONDITIONS (DIRECTION OF SWING, HAND OF DOOR) MAY VARY AND SHALL BE FIELD VERIFIED.
8. ANY FIELD CONDITION MISREPRESENTED IN THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ENGINEER OF THE PROJECT.
9. ANY DEVIATION FROM THESE PLANS NECESSARY DUE TO FIELD CONDITIONS MUST BE APPROVED BY DSA AND THE ENGINEER OF THE PROJECT. DETAILED AND RECORDED ON FIELD "AS-BUILT" DRAWINGS.
10. ALL DEVICES IN THE FIRE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED TO MANUFACTURERS' SPECIFICATION AND SHALL ALSO BE INSTALLED IN COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF CURRENT TITLE 24, PART 9 CFC CHAPTER 9, CEC ARTICLE 760, AND NFPA 72, 2019 EDITION WITH CALIFORNIA AMENDMENT.
11. WORKMANSHIP AND MATERIALS SHALL CONFORM TO MOST CURRENT CALIFORNIA BUILDING CODE (CBC) STANDARDS. SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AS FURNISHED BY THE CONTRACT DRAWINGS, WORKMANSHIP AND MATERIALS NOT IN CONFORMANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE SUBJECT TO REMOVAL AND/OR REPLACEMENT AT CONTRACTOR'S EXPENSE.
12. CONTRACTOR TO PROVIDE ALL NECESSARY COMPONENTS WHETHER SHOWN OR NOT ON THE DRAWINGS OR SPECIFICATIONS ON THE CONTRACT TO MAKE THE FIRE ALARM SYSTEM FUNCTIONALLY OPERATIVE AND ACCEPTABLE TO ALL CONCERNED AUTHORITIES.
13. PROVIDE ALL PATCHING, PAINTING AND FINISHES INCLUDING BUT NOT LIMITED TO CEILING/WALL TILE REPLACEMENT, BOARD ETC. FOR ALL DEVICES LOCATED IN EXISTING AREAS TO RESTORE TO ORIGINAL CONDITIONS AND MUST BE APPROVED AND COORDINATED WITH THE DISTRICT. EXISTING CONDITIONS SHALL BE DOCUMENTED WITH DIGITAL PHOTOGRAPHY PRIOR TO START OF WORK AND DELIVERED TO DISTRICT.
14. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
15. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, INSTALLING CONTRACTOR SHALL SUBMIT STATEMENT OF COMPLIANCE AND REQUEST FINAL INSPECTION PER CFC 901.2.1. A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR AND DISTRICT PERSONNEL.
16. DSA, L.O.R., ENGINEER AND OWNER (SCHOOL DISTRICT) SHALL BE NOTIFIED A MINIMUM OF 48 HR. PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
17. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION, TESTING ALL DEVICES AND APPLIANCES PER NFPA 72, FIGURE 10.16.2.1.1, AND SYSTEM PROGRAMS FOR SUPERVISORY MONITORING PER CBC, SECTION 901.6.2. PROVIDE A COPY OF THE COMPLETED RECORD OF COMPLETION TO DSA, ENGINEER, OWNER, AND LOCAL FIRE AGENCY VIA THE PROJECT INSPECTOR.
18. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE ALARM SYSTEM MONITORING CONTRACT OR PROVISIONS.
19. PROVIDE FIRE STOPPING AND CAULKING TO MAINTAIN INTEGRITY OF THE EXISTING RATINGS.
20. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
21. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
22. A "DSA CERTIFIED" INSPECTOR WITH CERTIFICATION IS REQUIRED FOR THIS PROJECT. REFER TO ARCHITECTURAL DRAWINGS.
23. AN INSPECTOR WHO IS SPECIALLY QUALIFIED IN MECHANICAL AND ELECTRICAL WORK WILL BE REQUIRED FOR THIS PROJECT, OR INDICATE NAME OF MECHANICAL AND ELECTRICAL ENGINEERS ON LINE 25b AND 25c OF PROJECT APPLICATION (DSA-1).
24. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHERE IN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT (CCD) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK. SECTION 4-317, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, C.C.R.).

[illegible]

ELECTRICAL SYMBOLS LIST

| | |
|---|--|
| NOTE: | <ul style="list-style-type: none">• SYMBOLS REPRESENT EQUIPMENT AND OUTLET BOXES TO WHICH CONDUIT AND WIRE IS RUN FOR CONNECTION TO FIXTURES AND DEVICES.• NOT ALL SYMBOLS APPLY TO THIS PROJECT; DISREGARD THOSE NOT USED ON PLANS AND IN DETAILS.• MOUNTING HEIGHTS IN SYMBOL LIST APPLY UNLESS OTHERWISE NOTED ON DRAWINGS. |
|  | JUNCTION BOX, WITH COVER (4" SQUARE, DEEP, WITH PLASTER RING) |
|  | RECEPTACLE, MONUMENT STYLE, DUCT MOUNTED, GROUNDING TYPE SEE PLANS FOR DETAILS/ RECEPTACLE TYPE |
|  | ELECTRICAL PANEL, SURFACE WALL MOUNTED |
|  | SWITCH, MOTOR RATED, S.P.S.T. |
| <h2>CONDUIT FOR CIRCUIT</h2> | |
|  | CONDUIT STUB-UP WITH COUPLING FLUSH IN FLOOR (TO PERMIT FUTURE REMOVAL) |
|  | CONDUIT CONCEALED IN OR UNDER FLOOR; OR UNDERGROUND (CONFIRM DEPTH; GRADE TO DRAIN INTO PULL BOXES) |
|  | BRANCH CIRCUIT WITH GREEN INSULATED GROUND CONDUCTOR, SAME SIZE WIRE |
|  | 3/4" CONDUIT WITH 2#12 WIRES AND 1#12 GND. |
|  | 3/4" CONDUIT WITH 3#12 WIRES AND 1#12 GND. |
|  | 3/4" CONDUIT WITH 4#12 WIRES AND 1#12 GND. |
|  | 3/4" CONDUIT WITH 5#12 WIRES AND 1#12 GND. |
|  | 3/4" CONDUIT WITH 6#12 WIRES AND 1#12 GND. |
|  | NUMBER INDICATES GAUGE OF WIRE IN CODE SIZED CONDUIT. |
|  | CONDUIT ONLY WITH #12 TW COPPER PULL-WIRE (3/4" MINIMUM SIZE, UNLESS NOTED OTHERWISE) |
|  | HOME RUN TO CIRCUITS #1 & #3 IN PANEL "A" (CROSSMARKS INDICATE NUMBER OF WIRES) |
|  | GROUND CONNECTION WITH ACCESSIBLE CLAMP (TO COLD WATER PIPE OR DRIVEN GROUND ROD) |
|  | STUB CONDUIT |
|  | CONDUIT DROPPING DOWN FROM RUN (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE) |
|  | CONDUIT RISING UP FROM RUN (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE) |
|  | END OF LINE FIRE ALARM WIRE |
| <h2>GENERAL SYMBOLS</h2> | |
|  | NUMBERED NOTE FOR SHEET WHERE SHOWN |



- ① PROVIDE UNDERFLOOR DUCT, HUBBELL #201W-15-12, WITH ROUND INSERTS, 12" SPACING, FOR MONUMENT RECEPTACLE MOUNTING, INCLUDE ALL REQUIRED ACCESSORIES, (201W-DCS, 201W-EC5, 201W, VEL, 201W-UGA, ETC) FOR UNDERFLOOR DUCT INSTALLATION, AS REQUIRED.
- ② PROVIDE MONUMENT STYLE RECEPTACLE AND HOUSING, NEMA 6-20R WITH HUBBELL #SC3098A HOUSING AND SINGLE RECEPTACLE PLATE, HUBBELL #SS309S.
- ③ PROVIDE MONUMENT STYLE RECEPTACLE AND HOUSING, DUPLEX RECEPTACLE WITH HUBBELL #SC3098A HOUSING AND DECORA STYLE DUPLEX RECEPTACLE PLATE, HUBBELL #SS309DS.
- ④ PROVIDE LOCAL DISCONNECT SWITCH AND CONNECT TO FLY FAN AND DOOR LIMIT SWITCH/MICROSWITCH FOR ON/OFF APPLICATION (FAN ON ONLY WHEN DOOR OPEN), CONFIRM EXACT LOCATION PRIOR TO ROUGH-IN.
- ⑤ DISCONNECT AND REMOVE EXIST. SIGN, AND SALVAGE CIRCUIT FOR CONNECTION TO NEW CEILING/TOP MOUNT EXIT SIGN WITH BATTERY BACKUP, LITHONIA #JCLC-1G-EL N.

| DATE: 06-Oct-23 | | | | PANEL VOLTAGE: 208/120V | | | | CIRCUIT CODE: 1=(CONTINUOUS) | | | | 2=(NON-CONTINUOUS) | | | | | | | | |
|-----------------|----|------------------|-------------|-------------------------|-----|------|-------|------------------------------|------|------|---------------|----------------------|------|-------------------|------|------|------|-----|-----|--|
| LOCATION | | | | PHASE & WIRE | | | | 208/120V | | | | 2=(NON-CONTINUOUS) | | | | | | | | |
| PANEL | | | | COPPER BUS | | | | 208/120V | | | | 2=(NON-CONTINUOUS) | | | | | | | | |
| AIC RATING: | | | | MANS CB | | | | 150A | | | | 4=KITCHEN | | | | | | | | |
| CBT | CB | LOAD DESIGNATION | | MISC | REC | LITE | VA | A | B | C | VA | LITE | MISC | DESCRIPTION | POLE | TRIP | CODE | NO. | CKT | |
| 1 | 20 | 1 | DESCRIPTION | | | | 1500 | 1500 | | | | | | (E)OVEN KITCHEN | 2 | 20 | 2 | 2 | | |
| 3 | 2 | 20 | 1 | (E)CONVECTION OVEN | | | 1500 | 1500 | | | | | | (E)OVEN KITCHEN | 2 | 20 | 2 | 2 | | |
| 3 | 2 | 20 | 1 | (E)CONVECTION OVEN | | | 1500 | 1500 | | | | | | (E)OVEN KITCHEN | 2 | 20 | 2 | 2 | | |
| 5 | 2 | 20 | 1 | (E)REFRIGER ALARM | | | 1200 | 1200 | | | 1100 | 1000 | | (E)MICROWAVE | 2 | 20 | 2 | 8 | | |
| 7 | 2 | 20 | 1 | FLY FAN | | | 1200 | 1200 | 2260 | | 1000 | 1000 | | (E)OVEN KITCHEN | 2 | 20 | 2 | 8 | | |
| 9 | 20 | 1 | SPARE | | | | | | 180 | | | 180 | | (E)RECEPT @ PANEL | 1 | 20 | 3 | 10 | | |
| 11 | 20 | 1 | SPARE | | | | | | | 800 | 800 | | | MILK COOLER | 1 | 20 | 2 | 12 | | |
| 13 | 20 | 1 | SPARE | | | | 675 | | | | 675 | | | HEAT STRIP | 1 | 20 | 2 | 14 | | |
| 15 | 20 | 1 | SPARE | | | | 675 | | | | 675 | | | HEAT STRIP | 1 | 20 | 2 | 16 | | |
| 17 | 20 | 1 | SPARE | | | | | | 1897 | 1897 | | | | HOLDING CAB | 1 | 20 | 2 | 18 | | |
| 19 | 20 | 1 | SPACE | | | | 1697 | | | | 1697 | | | HOLDING CAB | 1 | 20 | 2 | 20 | | |
| 21 | 20 | 1 | SPACE | | | | | | 800 | 800 | | | | SALAD BAR | 1 | 20 | 2 | 22 | | |
| 23 | 20 | 1 | SPACE | | | | | | 1250 | 1250 | | | | STEAM TABLE | 2 | 20 | 2 | 24 | | |
| 25 | 20 | 1 | SPACE | | | | 1250 | | | | 1250 | | | STEAM TABLE | 2 | 20 | 2 | 26 | | |
| 27 | 20 | 1 | SPACE | | | | | | 1250 | 1250 | | | | STEAM TABLE | 2 | 20 | 2 | 28 | | |
| 29 | 20 | 1 | SPACE | | | | | | 1250 | 1250 | | | | STEAM TABLE | 2 | 20 | 2 | 30 | | |
| 31 | 31 | | SPACE | | | | 0 | | | | | | | SPACE | | | | 32 | | |
| 33 | 31 | | SPACE | | | | | 0 | | | | | | SPACE | | | | 34 | | |
| 35 | 38 | | SPACE | | | | | | 0 | | | | | SPACE | | | | 36 | | |
| 37 | 38 | | SPACE | | | | 0 | | | | | | | SPACE | | | | 38 | | |
| 39 | 38 | | SPACE | | | | | 0 | | | | | | SPACE | | | | 40 | | |
| 41 | 38 | | SPACE | | | | | | 0 | | | | | SPACE | | | | 42 | | |
| | | | | | | | TOTAL | 7382 | 4405 | 6097 | CONNECTED KVA | 17.9 | | | | | | | | |
| | | | | | | | | | | | | CONN KVA (CODE 1) | 0.0 | | | | | | | |
| | | | | | | | | | | | | CONN KVA (CODE 2) | 17.7 | | | | | | | |
| | | | | | | | | | | | | CONN KVA (CODE 3) | 0.2 | | | | | | | |
| | | | | | | | | | | | | CONN KVA (CODE 4) | 0.0 | | | | | | | |
| | | | | | | | | | | | | TENANT ALLOWANCE KVA | 0.0 | | | | | | | |
| | | | | | | | | | | | | SPARE (DECIMAL) | 17.9 | | | | | | | |
| | | | | | | | | | | | | FREEDER DEMAND KVA | 17.9 | | | | | | | |
| | | | | | | | | | | | | FREEDER DEMAND AMPS | 49.6 | | | | | | | |
| | | | | | | | | | | | | X-FMR KVA | 17.9 | | | | | | | |

*PROVIDE (N)BREAKER TO MATCH EXISTING BY TYPE, STYLE, AND AIC RATING